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# **Author**

Galloway, Brent

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#### A Grammar of Chilliwack Halkomelem

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#### Brent Douglas Galloway

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Approved

Committee in Charge

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#### Dedication

This work is dedicated to the Indian people of the Stalo Nation, who have worked to keep their language and culture alive; to my grandmother, Viola, who met an Indian chief on the banks of the Willamette River as a child, whose trip to B.C. showed that it could be made, and whose father was a pioneer of the Pacific Northwest; to my parents, Joan and Quince, whose trip to B.C. in 1969 and support and interest and encouragement made my field work possible and my study enjoyable; and to my wife, Wendy, whose support and encouragement and patience made my writing and typing and completion of this grammar possible.

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Languages, at the University of California at Berkeley, which funded my field work in 1970, 1971, 1972 and
1973, and the moral and financial support of Coqualectza Education Training Centre at Sardis, B.C., which encouraged my work and supported it especially for the last six months. Without the help of Coqualectza and the Survey this first grammar of Halkomelem could never have been completed.

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#### INTRODUCTION

The Halkomelem-speaking people of the Fraser River, B.C. and its tributaries are called the Stalo. Upper Stalo dialects of Halkomelem are spoken along the Fraser River from Yale, B.C. to Chehalis, B.C., Deroche and Chilliwack, B.C. The Upper Stalo dialects share certain phonological and morphological features which allow them to be considered as a unit in contrast to Lower Stalo dialects and Vancouver Island dialects of Halkomelem.

Within the Upper Stalo area are the Tait, Chehalis, and Chilliwack River dialects. Within each of these are microdialects or subdialects whose differences are so far not well documented; Tait may include Yale, Hope-Katz, Seabird Island, Laidlaw-Cheam; Chehalis may include Chehalis and Scowlitz; and Chilliwack River includes Chilliwack Landing (Pilalt), Sardis-Tzeachten, and Scowahlie-Cultus Lake (perhaps). This grammar will only differentiate between Tait, Chehalis (Cheh.), and Chilliwack River (Chill. or Chwk.) dialects. In the Nooksack-Everson-Deming area of Washington, some members of the Nooksack Tribe speak the Chilliwack River dialect (Sardis-Tzeachten) and some speak a dialect of Lower Stalo (Kilgard/Sumas and Matsqui microdialects). Actually the terms Upper and Lower Stalo are not very sat-

isfactory because of connotations of Upper and Lwer; perhaps Upriver and Downriver Halkomelem are better. At present there seem to be about 50 to 75 fluent speakers of Upper Stalo or Upriver dialects, almost all over 60 years of age.

My field work on Halkomelem began in August 1970 with Mrs. Mary "Amy" Cooper of the Soohwahlie Reserve. That year I worked with her for one month. In 1971 we worked again, from September to December; in 1972 I had only a week in the area but met the Stalo Heritage Project's Elders Group and worked with some of them twice: in 1973 Amy and I worked together from August to December; during that period I also visited on several occasions Mrs. Mary Charles of Seabird Island and Mrs. Cecilia Thomas of Seabird Island who was able to tell us a number of stories in Halkomelem. I also met with Mrs. Nancy Phillips of Chehalis who was teaching the language in the Chehalis Day School. Amy, her husband Albert and I also made a trip to Yale and visited with Mrs. Margaret Emory of Yale (who speaks only Halkomelem and Thompson). At the end of the year I gave a speech in Halkomelem at a large spirit dance; the speech was in honor of the chief who put on the dance and also encouraged the preservation and revival of the language. Amy had corrected my grammar on the speech and gave me stylistic pointers. Amy was

good to work with, patient, dilligent, always willing to work and always willing to travel with me to visit others. She would even call people up to track down particular words she could not remember.

During summer of 1974 I was employed by the Nocksack tribe to work with a group of their elders who
were meeting weekly in a Halkomelem Workshop. In January 1975 I was employed by Coqualectza Education
Training Centre at Sardis, B.C. to set up lessons,
classes and other Halkomelem language programs. This
has involved, among other things, teaching Halkomelem
classes on three different reserves and at Coqualectza
and giving a teacher training course to ten Halkomelem
speakers, three of whom have now taught their own
courses (one, Nancy Phillips, was already teaching Halkomelem).

The Stalo Elders Group was still meeting every week to speak and preserve the language and was now called the Coqualectza Elders Group. I have been fortunate to work with them for several hours weekly on the language ever since. I also work once a week with the Halkomelem Workshop in Deming, Washington, sometimes eliciting, sometimes teaching Halkomelem spelling, words discovered from the Coqualectza Elders Group, or Halkomelem grammar.

Through several grants at different times Coqua-

leetza was able to employ Wilfred Charlie. Tillie Gutièrrez, and Edna Bobb to help with language research and file-slipping. Tillie is fluent in the Tait dialect (Katz) and Edna is fluent in the Chehalis dialect: Wilfred knows a little of the Chilliwack (Sardis) dialect. Edna and I especially worked together from November 1975 to October 1976; as a result I recorded and she file-slipped several thousand Chehalis forms from her as well as all the forms from the weekly Elders Meetings since 1975, and we also translated a number of songs and stories. Wilfred and Edna each also helped me transcribe some tapes of Elder's Meetings going back to 1972, though many remain to be transcribed. My work at Coqualeetza is continuing. The Elders Group is our most valuable group in preserving and saving the language and culture. Their talent and dedication and humor make every meeting rewarding and enjoyable.

Through the help and kindness of Casey Wells I was able also to copy tapes which his late brother, Oliver Wells, had made with two of the best speakers of Sardis Halkomelem alive between 1962 and 1965, Bob Joe (1884-1970) and Daniel Milo (1867-1967), as well as with a number of other speakers. I was able to transcribe several of the tapes with Bob Joe and Dan Milo, and they provided a good balance and perspective

on the dialects of Halkomelem. This grammar is based on Chilliwack Halkomelem but has considerable data and comparisons from Tait and Chehalis dialects as well.

A number of people have worked with me, sharing their knowledge of Halkomelem (they are identified by their initials in the grammar): Chilliwack dialect: Amy (Mary Laurencetto) Cooper (1886-1975)(Vedder Crossing, Soohwahlie Reserve)(AC), Mancy Phillips (Sardis, now of Chehalis)(NP), Lawrence James (Chilliwack Landing), Danny Charlie (Chilliwack Landing), Susan Jimmie (Sardis, now of Everson, Wash.) (SJ), Marie Villanueva (Sardis, now of Everson), Mamie Cooper (Sardis, now of Everson area)(MC), Roy Point (Sardis)(RP), Richard Malloway (Sardis)(RM), Philomena Solomon (of Everson area, now deceased), (I have only worked with tapes of Dan Milo (Sardis, Scowkale Reserve) (DM) and Bob Joe (Sardis, Tzeachten Reserve)(BJ)). Chehalis dialect: Ed Leon Sr. (Chehalis)(EL), Dolly Felix (Scowlitz, now of Chehalis). Hank and Maggie Pennier (Scowlitz and Chehalis respectively)(HP, MP), Lizzie Johnson (now of Seabird Island), Edna Bobb (Chehalis, now of Seabird Island)(EB), Teresa Michell (now of Cheam Reserve), Philomena Kelly (Deroche). Tait dialect: Cecilia and Henry Thomas (Cheam, now of Seabird Island)(CT, HT), Susan (Josh) Peters (Union

Bar or Yale, now of Seabird Island)(SP), Amelia Douglas (Cheam Reserve)(AD), Tillie and Al Gutierrez (Katz) (TG, AG), Agnes Kelly (Laidlaw)(AK), Joe Laurencetto (Laidlaw, now of Boston Bar)(JL), Mary Peters (now of Chilliwack and Seabird Island)(MP), Fhilomena Seymour (now of Seabird Island), Maggie Emery (Yale), Stanley Jones (Laidlaw, deceased).

<u>Summas/Kilgard dialect:</u> Jeanne Silver (now of Vedder Crossing), Peter "Speedy" Bolan, Ella Reid (Kilgard, now of Everson area), Alice Hunt (Matsqui, now of Everson area).

All but RM, DM, and BJ are or were members of the Coqualeetza Elders Group or the Halkomelem Workshop at Deming. All of those listed are fluent speakers, but this is not a complete list of the members of the two groups, nor of all the fluent speakers. It is a list of those from whom I have had specific forms or interviews.

One other use of initials should be mentioned.

In the first chapter I have used ES as an abbreviation for the article by William W. Elmendorf and Wayne Suttles: "Pattern and Change in Halkomelem Salish Dialects," in Anthropological Linguistics, vol.2, no.7, 1960, pp.1-32. And in the same chapter I referred to JH as an abbreviation for Jimmy Gene Harris: "The Phonology of Chilliwack Halkomelem," M.A. thesis, 1966,

University of Washington (unpublished). To have used footnotes every time I mentioned these two sources would have made Chapter 1 too complex and difficult to read.

The name Halkomelem, /hslq'eméylem/, derives from the Upriver pronunciation of the name of Nicomen Island, /leq'émél/ with the addition of the continuative prefix hs-, the -f·l - -éyl suffix 'go, come, get' (which replaces any preceding sl), and -em 'middle voice'. Although the derivation of leq'émél is less certain, it seems to have root leq' 'level' and -á·mél 'member, part' (see Chapter 5); this would give it a meaning like 'level part', which is a good description of Nicomen Island in the Fraser River. /hslq'eméylem/would then have come from a meaning like 'going/coming/getting to a level part' or 'going/coming/getting to Nicomen Island'.

There is also a tradition that the people of the Chilliwack River (before 1800 according to Captain John Sualis in Hill-Tout (1902)) used to speak the Nooksack language, 1670-1000. Some time around 1800 or before, the people of the Chilliwack River began to adopt the language of Nicomen Island. Some 1670-1000 place names in the Chilliwack River Valley are quoted by Amy Cooper in evidence, st'ept'6p '(perhaps Ryder Lake Creek or a ridge nearby)' and selisi or syelisi 'Mt. Slesse' (said

to mean 'fang' in 16501000. This deserves further research from a linguistic viewpoint.

Chilliwack, /sc'elx \* Evec \* - sc'elx \* fo \* / derives from sc'éléx duieter water, backwater, slough + -iq 'on top of the head, hair'? (possibly metaphor for a delta or many twisting channels). In canoes, upriver or downriver travellers could take a rest by going through Hope Slough or some of the other sloughs which had quieter water than the Fraser and were connected to the Chilliwack River. In the days before 1875 when a great logjam changed its course, the Chilliwack River flowed west from Chilliwack Lake, then north to the Fraser River through what is now Vedder Crossing, Sardis (by the present Chilliwack River Road), and Chilliwack Landing. At first the villages were on the upper reaches of the Chilliwack River, but as landslides wiped out villages there and enemy slaving raids decreased with the influence of the white man on the Fraser River spreading, new villages were established further down the Chilliwack River, eventually including several in the Sardis area and at Chilliwack by the 1850's. That brings us to the time of the first white settlement in the area.

Finally, I should mention that the chapters were written in the order presented, the first chapter being written several years before the last. Thus although

I have done some revision on the early chapters, a few inconsistencies may occur for example in spelling of Halkomelem words. For any of these inconsistencies, the information later in the grammar is probably more definitive.

### CHAPTER 1. PHONETICS AND PHONEMICS

1.1. Phonemes. The consonant phonemes of Chilliwack Halkomelem are shown below. The points of articulation given are applicable to the allophones. The phonemes /k/ and /k'/, parenthesized, are found only in borrowings. Apico-alveolar [n], retroflex [r], voiced bilabial [b], and others, are found in a few temporary borrowings from English, like [them] 'town', [khort] 'quarter', and [bux] 'Butch', but they do not form part of the phonemic system. Since every speaker of Chilliwack Halkomelem is bilingual in English, it is clear (in the cases found to date) that the words so "borrowed" are cases of codeswitching (language switching) rather than real borrowings.

The dental-alveolar consonants are pronounced between the roots of the upper teeth and the front of the alveolar ridge. Only  $/\hbar^2/$  is pronounced at the bend at the back of the alveolar ridge.

Alveolar-palatal consonants each have a lamino-alveolar allophone and a lamino-palatal allophone.

/e'/ and / $\hbar$ '/ were chosen instead of the symbols te' and t $\bar{\imath}$ ' to demonstrate the unit nature of these affricates. /c/ and /c'/ were chosen as phonemic symbols because their allophones cover both [ $\rlap/$ e] and [ $\rlap/$ e], and [ $\rlap/$ e] and [ $\rlap/$ e] respectively. /e/ was chosen instead of e because its allophones are [ $\rlap/$ e] most frequently, [ $\rlap/$ e] next most frequently, and [ $\rlap/$ e]

least frequently ([e] is relatively uncommon).

Consonant Phonemes:												
				Apico			_		Dorse	) <del>-</del>	<del></del>	
		Bilabial	Interdental	Dontal-alveolar   Plain	Dental-alveolar   Lateral	Lamino-   Alveolar-palatal	Palatal	Velar  Plain	Velar Labialized	Postvelar  Plain	Postvelar	Glottal
Stops	vl.	p		t				(k)	$k^{W}$	q	g <sup>W</sup>	
glottal	izeđ	p'		t'				(k')	ĸ, M	q,	q' <sup>w</sup>	?
Affricate	s vl.					c						
glottal	izeđ		θ,		¥,	c'						
Spirants	vl.		9		ł	s	хy		x"	ž	$\mathbf{x}_{\mathbf{M}}$	h
Nasal	vđ.	m										
Semivowel	s vđ.	М			1		y					

and . (length) and : (double length)

### Vowel Phonemes:

	Front Unrounded	Central Unrounded	Back Unrounded	Back Rounded
High	i			u
Mid	ε	ə		0
Low			a	

## Suprasegmental Phonemes:

- ' (high and high-falling pitch stress) # (word boundary)
- (mid pitch stress) ## (sentence boundary)

unmarked (low pitch, unstressed)

For functional reasons and convenience the table of phonemes can be summarized as follows:

Obstruents plain	р		t		С	(k)		$\mathtt{k}^{\mathtt{W}}$	q	$\mathtt{q}^{\mathtt{W}}$		•	:
glottalized	p'	e'	ŧ,	ħ,	c'	(k	)	k'W	q,	q'W	?		
Spirants		е		ł	s	хy		χW	¥	\$ <sub>M</sub>	h		
Sonorants	m			1		y		w					
High						i		u				•	
Mid						ε	Э	0				•	#
Low							а	•		un	mark	eđ	##

It is worth noting here that Chilliwack Halkomelem is unusual among languages of the world in that it has only one nasal, which is /m/. There are no other nasal phones than [m] and [m], both allophones of /m/. This solitary /m/ violates one of the universals proposed by Ferguson¹ to the effect that, "If in a given language, there is only one primary nasal consonant, it is /n/, that is, its most characteristic allophone is apical." Also worth noting here are the prominent glottalized, labialized, and postvelar series, which are characteristic of languages of the Northwest Coast.

<sup>1.</sup> Ferguson, Charles A.: "Assumptions About Nasals: A Sample Study in Phonological Universals," in Universals of Language, edited by Joseph H. Greenberg, 2nd ed. 1966, M.I.T. Press, Cambridge, Mass.

- 1.2. Allophones and Phonetics.
- 1.2.1. Voiceless stops have unaspirated allophones in two positions: s V (prevocalically after [s]) and C (before syllabic consonants, i.e. before [m] or [1]). For example: [spæ·0] 'black bear', [stæ·lo] 'river', [skæ·khs] ther cooking', [skwithexw] 'the inside', [sqemae] '(female) breast; milk', [sqwsthxIm] 'fog; mist', [mistUxw] 'bring (fetch) something, give me something'. [ alastex Is ] 'they are/were in a canoe', ['imlxstUxW] 'make someone walk; take someone for a walk', ['2.ystux"] 'chasing something'. [šxWeq'WléqhstIl] 'nose-ring' (DM); [?â°pl] 'ten', [?£ltl] 'to eat',  $[p^h$ áysIkl] 'bicycle',  $[k^Wl 2 \cdot t^h] \sim [k^{hw} il 2 \cdot t^h]$ 'hold s-th' (s-th is an abbreviation for 'something'; s-o will abbreviate 'someone'), [m2.ql] 'human hair', [6áy q ls] 'digging'; and [tmk'W5 ·k'Wes] (tm- - ther-, o - a ·) 'summer; hot time'. [kwfmlUxw] ~ [khwfmlUxw] 'root', [slæqwm] ~ [shaqhwum] 'breath (norn)'.

Voiceless stops elsewhere are aspirated. For example: [phap'q'w, ] 'puffball; Popkum', [skhwf:m] 'red', [k'aphth] 'be long', [stathew] 'light, illumination', [mag'eth] 'swallow s-th', [spapleqhwite's] 'screech owl, pigmy owl; little ghost', [thai - [tlai 'this', [thakhthe] 'doctor' (NP), [khapht] 'captain' (NP). [khw] was occasionally transcribed [kh] before rounded vowels, but in actuality the rounding is still present, only obscured in the more prominent rounding of the following vowels (as in [khopwe])

'coho salmon' for example). From here on aspiration will not be written in phonetic transcriptions.

1.2.2. /e'/ has allophones [e'] after [s], and [te'] elsewhere. For example, [te'ext at] 'wash something', [p'á·te'is] 'baby basket, basketry cradle', [sp'â·te'] 'Indian currant', [se'î·m] 'berry, fruit', [se'æ·qel] 'bullrush; bullrush mat'. There is no unglottalized affricate version of this affricate; cases of /te/ which occur are clusters of /t/ plus /e/ since they invariably have the t aspirated ([the]). /e'/ and /e/ are interdental in the sense that the air is released in the spaces between the upper teeth; the tongue rests on the back of the upper teeth, not between the upper and lower teeth.

1.2.3. /\*/ is the phonemic symbol for [t½'] or [tl'] (equivalents except that [tl'] would probably have less spirantal release than [t½']). I began my field work trying to hear a difference and using both symbols, but it soon became obvious that there was either free variation or I could not hear the difference. There is no plain /k/ because clusters of /t½/ and /tl/ feature aspirated th except when the /l/ is syllabic, i.e., [th²], [th²] and [t½].

1.2.4. /c/ has the following allophones:

- [¢] freely varies with [č] in the environment ±,s\_I,ε
- [\$\phi\$] elsewhere before I,\$\epsilon\$,\$\frac{1}{6}\$,\$\frac{m}{6}\$, all consonants but \$x^W\$, and finally (\_\frac{1}{2})
  - [č] elsewhere (before the other vowels and  $\mathbf{x}^{\mathbf{W}}$ ).

Examples: [?1.\$\forall - [?1.\$\forall ] we were', [q4.\$\forall ] 'juice', [s\$\forall \forall - [s\forall ] 'be on top', [tamt\text{\$\forall } ] 'when will it be?'; [l\text{\$\forall } ] 'I go, I'm going', [\text{\$\forall } ] 'that will be', [\text{\$\forall } ] 'lake', [?\text{\$\forall } ] 'be in the middle, between', [(\text{\$\forall } ] 'magging its tail', [l\text{\$\forall } ] 'we're going', [l\text{\$\forall } ] 'send somethins', [\text{\$\forall } ] 'to get a wife', [\text{\$\forall } ] 'red', [\text{\$\forall } ] 'be thirsty', [\text{\$\forall } ] 'yellow, green', [\text{\$\forall } ] 'black', [\text{\$\forall } ] '\text{\$\forall } ] '[\text{\$\forall } ] 'send', [\text{\$\forall } ] '\text{\$\forall } ] 'send', [\text{\$\forall } ] '\text{\$\forall } ] '\text{\$\fo

[číčeł] ~ [čí·čeł] 'be above, high', [sčí·l] 'first-born', (DM has [šx³čeŏ¢yItæwtx³] 'smokehouse' and [čæčé·yIt-tel] 'fish ready to dry'), [čálIx] 'hand', [sílqčUx³čæ] 'you'll fall down, drop', [°ćweœp] 'you (pl.) didn't, you (pl.) don't', [yéq³½ŏep] 'light a fire', [čtlæqeł(It])[[~e) 'yesterday', [sčutéł] 'son-in-law, daughter-in-law', -[čUx³] 'you (sg. subj.)', [sq²¾ečUm] 'a boil' (BJ), [sčowát] 'know how to', [čâ·k³] 'be far away, distant', [líčx³] 'do you?', [x³wowæčx³] 'you're not yet', [čx²Útm] 'swelling'.

There is some idiolectal variation among speakers of the Chilliwack dialect, mainly in the direction of increasing free variation. AC has  $[\ell]$  and  $[\delta]$  in the environments listed above. IM and BJ have the same distribution in most instances but have some examples of free variation before I,  $\theta$  and  $\theta$ . RM and SJ appear to have  $[\ell]$  in free variation

with [č] everywhere. English provides pressure against complementary distribution via loans like [čÍkel] 'chicken' and [ká\*p'Ič] 'cabbage' (both NP citations).

1.2.5. /c'/ has the following allophones:

[&'] in free variation with [&'] in the following environments<sup>2</sup>: #\_\_(i, 1., 6(.), &., 1, 5, 0)
s\_\_(e, &., 4.)
w\_\_I
\_\_\_\_(I, &.)

[d'] elsewhere.

All examples of [8'] found so far have been in variation with  $[\beta']$ . In other environments, especially before conson-

<sup>2.</sup> Items set off by commas and contained within parentheses are alternatives; a single item within parentheses is optional in this system of rule notation. Thus  $A\to B\colon C\to (B,F)(G)$  is to be read "A is realized as B in the environment after C and before D followed by E or F and optionally by G."

ants (syllabic or non-syllabic) and word-finally, the only variety recorded is [g']. For example: [g'g', '] 'very' [g', '6\p] 'spruce', [sx\(\bar{\pi}\)] 'feather', [g', \bar{\pi}\) 'jaw (incl. chin)', [\pi\si'\ta] '\tan\(\bar{\pi}\)] 'knife', [si'\si'\text{elp}] 'vine maple', [\bar{\pi}\si'\text{el}] 'one (in counting), one thing', [\lambda\bar{\pi}\)' bile; gall-bladder', [\bar{\pi}\]' \lambda\(\bar{\pi}\)' \lambda\(\bar{\pi}\)' \lambda\(\bar{\pi}\)' black hawthorn berry'.

There are also cases of idiolectal or microdialectal variation, in which one speaker prefers one alternate and another speaker prefers another alternate. If a word is only attested once or only by one speaker and the attestation is with [s'], there remains a possibility that it also has a  $[\delta']$  variant. This possibility and idiolectal preferences may account for a few cases of [s'] in  $[\delta'] - [s']$  environments (such as [s']1·sən] 'to grow' and [s']2. The property is to hear').

1.2.6. /s/ has allophones [š] before [x<sup>W</sup>], and [s] elsewhere (including before [x<sup>W</sup>]). For example:
[šx<sup>W</sup>Uml1·k<sup>W</sup>] 'parents', [šx<sup>W</sup>â·x<sup>W</sup>te'] 'crazy',
[lUx<sup>W</sup>šx<sup>W</sup>iýleeqel] 'gossiping', ['â·šx<sup>W</sup>] '(hair) seal';
[słém·Ux<sup>W</sup>] 'rain (noun)', [słíć'is] 'cut and dried salmon';
[sî·si] 'to be afraid', [sx<sup>W</sup>ô·sm<sup>0</sup>] 'soapberry; Indian ice oream', [st´1·lem] 'song', [łséq´] 'half; half-breed; half-dollar', [k<sup>W</sup>ÚmlUx<sup>W</sup>s] 'its root'.

At times /s/ before /\(\frac{1}{2}\) sounds somewhat like [\(\bar{s}\)], but close hearing shows this to be more the sound of [\(\bar{x}\)] after an [s] than the [\(\bar{s}\)] allophone. A few borrowings have [\(\bar{s}\)]

not before a  $[x^W]$ . For example:  $[x^W = 5t^*]$  'pig' (< Chinook jargon) and  $[5tk^W = 1]$  'sugar' (< English) and  $[ht = 5tk^W = 1]$  'to sneeze'). These will be considered outside the phonemic system. The alternative would be to say  $/s/ \rightarrow [5]$  also before [u], but examples (not borrowed) like [t = 1] and so' forbid that.

- 1.2.7. /x³/ is everywhere realized as fronted [x] (or [x³]). There is no plain velar [x]. Examples include: [xê·ysem] 'ant', [swixixeq(')] 'marsh blueberry', [sxépxII] 'fish tail', [te'êx²xxīl·ém] 'wash one's feet', [?imIx] 'to walk', [sč'êxt] '[sɛ'êxt] 'branch, limb of a tree'.
- 1.2.8. /k/ appears only in loamwords but in a number of loamwords that have been otherwise adjusted to eliminate non-Chilliwack phonemes. /k/ appears in borrowings from other Indian languages and from Chinook jargon and French as well as from English. Some examples: [kInfkInfk] 'Kinnickinnick, Indian tobacco, bearberry', [kapû\*] 'coat' (< Chinook, or French "capote"), [lesák] 'sack' (< French "le sac"), [lekii] 'key' (< French "le clef"), [ká\*pti] 'captain' (< English).
- 1.2.9. /k'/ appears very rarely and has a similar status to /k/. The words found to date with /k'/ are: [sk'Ik'eyæp](the first [k'] ~ [n]) 'coyote' (< Thompson language), [sk'æk'æwe] 'Saskatoon berries (usually dried)' (< Thompson language), and [p'Isk'e] 'hummingbird' (BJ) (< Thompson [p'ésk'yey] 'hummingbird').

A slight de-labialization appears to take place for

all labialized consonants (/k<sup>W</sup>, k'<sup>W</sup>, q<sup>W</sup>, q'<sup>W</sup>, x<sup>W</sup>, x<sup>W</sup>/) before rounded vowels (/u, u·, o, o·/). This produced a few cases of [k] and [k'] (in addition to [q, q', x, x]) in my transcriptions. For example, [kú·tIs] 'he fetched it, he got it', [kóx<sup>W</sup>əθ] 'coho salmon', [sk'ó·lmUx<sup>W</sup>] 'blackberry', [q'ô·l] 'ear', [xówé·] 'not yet', [sxósəm] 'soapberry', and [qú·lq<sup>W</sup>1] 'all talking'. However, close listening reveals some labialization still present, and all such cases have been phonemicized with labialized consonants.

ES also mentioned a  $[k^{J}]$ , which I have so far found in only one word,  $[k^{J}\hat{x}^{*}k^{J}]$  'younger sibling (pet name for  $[sq\hat{x}^{*}q]$  'younger sibling')'. The feeling AC had for this implied that it was a baby-word, perhaps only used in her family. At any rate, with the pressure from loan words and from  $/x^{J}/$ , there is pressure to fill in the hole in the pattern and develop a /k/ and a  $/k^{'}/$ . But at present the latter are both peripheral to the Chilliwack system.

1.2.10.  $/x^W$ / has allophones [W] (voiceless bilabial spirant) which occurs occasionally in allegro or normal-speed speech and lemis articulation, and  $[x^W]$  which occurs elsewhere. [W] is so far attested only in 21 words (six percent of the words with  $/x^W$ /), and in each case a slower or more careful pronunciation has yeilded  $[x^W]$ . The surrounding allophones do not determine this allophony. In careful and slow speech only  $[x^W]$  occurs. Some examples: [116W %2y %al] 'How are you?' (lit. 'Are you just fine?'),

[sg'TlWéyUqW] 'Chilliwack', [WA'á·qtes] 'long face; morose', [WáWa] 'lightweight', [W]meWéwt] (lenis and fast) ~  $[x^{W}]mex^{W}\text{éwtx}^{W}]$  (citation form) 'Indian house'. [W] occurs only sporadically even in lenis or fast speech, while  $[x^{W}]$  occurs in all careful, slow, or citation-speed speech and in most lenis or fast speech words. In a few other cases it seems that  $/x^{W}$ / has an allophone [w] after [š] preceding a syllable beginning with [w], for example: [šwūwe] 'cougar' and [šwīwá-li] 'parents'. But later hearings of these words sounded more like a  $[\S x^{W}]$  was detectable.

1.2.11. /m/ and /1/ can be considered together because they have similar allophony in similar environments.

/m/ has allophone [ $\frac{1}{0}$ ] and /l/ has allophone [ $\frac{1}{3}$ ] in the following remaining environments (where C is any non-syllabic consonant, V is any vowel, and  $0^{-s}$ , or example means any consonant except [s] or [ $\frac{s}{2}$ ]):  $\frac{1}{2}$  (C ( $0^{-s}$ ,  $\frac{s}{2}$ )  $\frac{1}{2}$ 

cc\_\_v c\_\_c<sup>-m,1</sup>(c,v).

In addition, /1/ has syllabic allophone [1] in the following environments:  $\ddagger$   $\ddagger$  and  $\mathring{v}(p,m,w,s)_{(e,I)}$  (for BJ and DM this last environment should instead be  $\mathring{v}C^W_{(v,V)}$  where  $C^W$  is any labialized consonant).

Elsewhere /m/ has allophone [m] and /1/ has allophone [1].

It is interesting to note that [m] and [l] can occur with stress (/'/ or /'/), for example as in [k^miux^w] 'root', [six'a] 'older, oldest (of children)', [k'wq'm] 'axe' (DM), and [qiqi] 'thief'. The last two of these examples highlight the effect of /s/ deletion which occurs in normal-speed and fast speech--the words have no vowels in them, only syllabic consonants. /s/ deletion results in a zero grade of ablant and is sometimes an option when it is not a morphological process.

The remaining consonant phonemes not yet discussed, /p', t',  $k'^W$ , q',  $q'^W$ , ?,  $\theta$ ,  $\xi$ ,  $\xi^W$ , h, y, w/, have the phonetic values indicated by the phonemic symbol chosen.

1.2.12. /·/ is lengthening and /:/ is superlengthening.
/·/ can occur after any vowel but /ə/ and is so far attested after the following medial consonants: /t, q, s, θ, m, l, w, y/. For example: [xwét·əs] 'heavy', [léq·əm] ~ [léqəm] (the [q·] may be erroneous) 'to dive', [qəλ'asºīs·u] 'and so', [yīlθ·à·m] 'poison you, you got poisoned' (/yélθ·à·m/ < //yélθ-θ-à·m//, compare [le yīlθtəm] 'he got poisoned').

Examples of long resonants are somewhat more common<sup>3</sup>:
[tém·ūxw] 'earth, land, dirt', [sxél·ə] 'leg, foot',
[sxéy·əs] ~ [sxéy·əs] ~ [sxéy·əs] (AC, BJ) 'head', [syôw·ə] ~ [syô·wə] 'fortune-teller, seer'. Examples of long vowels

<sup>3.</sup> ES has 39 examples (with /\*/ only after vowels or resonants /m, 1, w, y/), including some with word-final length; in a number of examples ES /6w\*/ corresponds to my /6\*/ and ES /6y\*/ to my /1\*.

are plentiful: [?î·] 'be here', [sí·le] 'grandparent', ['ê·y] 'be good', [xê·yx'] 'be cold', [xê·m] 'weep', [q'æ·mi] 'adolescent girl (10 to 15 years old)', [tû·xw] 'nine', [le kwú·tls] 'he got (fetched) it', [q'wô·l] 'ear', [sk'wô·lmuxw] 'blackberry', [qâ·] 'water', [slâ·s] ~ [slô·s] 'fat', [skwó·wl¢] ~ [skwá·wl¢] 'sturgeon'. In all cases primary stress must occur on the syllable lengthened (on the long vowel or on the vowel immediately before the long consonant).

/:/ can occur after any vowel, including /e/, and is not attested after any consonant; /:/ is a morpheme of emphasis (as in English), which can be translated as 'really' and can be applied to any stressed vowel. For example:

[qé:x to q<sup>W</sup>æ·l] 'really a lot of mosquitoes', [su yæ:t]
'so he really threw up' (CT), [læ:m 'imix tûx' a ‡ 'i:mix]
'he went really walking; he walked and walked' (CT).

1.2.13. /i/ and /i / (front high unrounded) receive schwa off-glides before postvelars (the symbol Q can be used for q, q', q', x, x'). With /i / the effect is often so great that a y-glide precedes the schwa glide, making it difficult to distinguish /1 · q/ [1 y q] for example, from /iyeq/ [1yeq]. For /i/ the result is a plain glide, as in [i q]. Examples: [suf y q q] /swi q q] or [swiyeqe] /swiyeqe/ 'a man; male', while on the other hand [0 y q kls] 'dig' is /0 iy (0) q kls/ because of [0 4 q q kls] /0 4 y (0) q kls/

'digging'; [syi<sup>9</sup>q] /syiq/ 'a snowfall', [yi<sup>9</sup>q] /yiq/ 'have a snowfall', [yiyəq] ~ [yi·yəq] /yi(·)yəq/ 'having a snowfall'; [sqi<sup>9</sup>qəwèθ] /sqiqəwèθ/ 'rabbit', [q<sup>W</sup>1<sup>9</sup>q<sup>W</sup>Π±¢] 'gossiping', [q'<sup>N</sup>1<sup>9</sup>q'<sup>W</sup>əná·θ] 'fishing with a line', [θi<sup>9</sup>x] 'spring (of water)', ['1<sup>9</sup>x<sup>W</sup>ət] 'sweep s-th, clean s-th'.

Elsewhere than beside postvelars /i/ has the allophone [i] and /i·/ appears as [i·]. For example: [sî·si] 'be afraid', [wiyá0] 'always', [sísəmayɛ] 'bee', [\*/ik'%əl] 'pea, bean', [šx\*ix\*ax\*to'] 'stupid'. It is also possible to hear [əy] in some words, so /i/ is best left separate from /ey/. For example, [q'\*eyilix] - [q'\*eyilix] 'to dance', and [?a°əyâləwit] 'doing s-th, managing s-th'.

Harris (1966) says that /i/ has allophones [i] adjacent to [\$\psi, \$\psi', \$\psi', \$\psi, \$\psi, \$\psi', \$\psi

1.2.14. / & / has allophony which is difficult to state because it involves a combination of free variation and

complementary distribution. Its allophones are [e] uppermid front unrounded, [e] mean-mid front unrounded, and [æ] upper-low front unrounded.

a. № /ε/ has allophones

- [æ] elsewhere before v
- [æ] in variation with  $[\epsilon]$  elsewhere, with the

the following strong tendencies in the speech of AC:

[8] when unstressed before C-y

The tendencies in b.) hold for every occurence of [æ] and

[s] except the following:

c.) Other tendencies are the following in AC's speech:

Environments allowing  $[\hat{z}, \epsilon, \hat{z}, z]$  are (?, h, m)\_\_1 Cases with  $[\hat{z}]$  in free variation with  $[\hat{z}]$  are ?\_\_ $^{\prime}$ \_ $^{\prime}$ \_ $^{\prime}$ , (m, p')\_\_\_\_1e^{\prime}, and q\_\_w.

d.) In a.) the solution for prediction of [z] and [ε] not before y is variation. In b.) the solution is [z] under stress and [ε] unstressed. In c.) the solution is [z] before certain consonants and before 1 and ‡ after certain consonants, [ε] before other consonants and before 1 and ‡ after other consonants.

Solutions b.) and c.) show that  $[\epsilon]$  and [a] are nearly in a state of complementary distribution with each other; the problem is that there are exceptions (as given) to both environments. If solution a.) is chosen it must be noted that the variation between [a] and  $[\epsilon]$  is not free variation but variation conditioned by the environments in b.) and c.) and conditioned in the cases of the exceptions by idiolectal preferences within free variation (and possibly by sociolinguistic and semantic factors as well).

e.)  $/\epsilon \cdot /$  occurs but is always stressed and therefore only has allowhones [e·] and [æ·].

[e·] occurs (q,q',x,h) y

[e·] is in free variation with [æ·]: (y,m.w.č')\_\_\_y

[æ·] occurs elsewhere.

Examples of  $/\epsilon/$  and  $/\epsilon \cdot/$  follow:

[%61qey] 'snake', [q'éyq'exel] 'getting black', [Woq''éylm] 'downriver', [zéypet] (ES has p') 'scrape s-th, scratch s-th', [xéyet] 'fight s-o', [?éyĕUx"] 'you're good',
[ś(')ɛhéyI±æ\*wtx"] 'church (building)', [léyleyÎm] 'laughing';
[xepéy] - [xepéy] 'cedar (material or wood from)', [méyt] [méyt] 'help s-o', [swéyIl] - [swéyIl] 'day'; [qelqê·yl]
'dirty', [q'é·yt'ə] 'swing', [xê·yx'] 'be cold', [hé·yUqW]
- [héyUqW] 'fire'; [siyæ\*ye] - [siyé·ye] 'friend',
[sqW(±)mê·y] - [sqW(±)mæ\*y] 'dog', [sxW\*wê·ys] - [sxW\*wæ\*ys]
'his parents', [č'é·yxW\*tIs] - [č'æ·yxW\*tIs] 'he's drying it';
[xWiexwiyæye](AC) - [xWexWiyæye](AD of Agassiz, TG of Katz)
'small fly', [sxæye] '(younger) co-wife', [sk'Wæy] 'impossible, be impossible'.

The next examples are arranged in pairs showing [ɛ] and [æ] in the same or similar environments, differing only by stress. [temtém] 'when?, what time?', [½[qî] 'to soak (dried fish)' and [½[qi] 'soaking (dried fish)', [lɛm, lɛ, lɛ½, lɛ½], lɛ½t] are unstressed forms of the verb 'go' which always appear immediately before a stressed word, compare [l½m] 'go', [l½] 'go', [sp'àk'm½[½] 'pipe' (DM, BJ), [sqel½] 'diapers', [½q'l½½] 'hip', and many others; [qwayel] 'be yellow', ['ay½ləw±t] 'do s-th, manage s-th', [sg'ɛl½x] 'be yellow', ['ay½ləw±t] 'do s-th, manage s-th', [sg'ɛl½x] 'juioy', [½lim²½½] 'it will be you (pl.)', [h£lp'lx] 'eating (like an animal, without hands)', [hælq'eméyləm] 'Halkomelem', [ö½mel] 'Chinese person', [kwirk] 'smel] 'turning red', [m£lqləx] 'forget s-th', [sxImál] 'enemy', [tɛlūwə] 'it's you (sg.)', [tźlə(s)]

'dollar', [x etalm] 'be cloudy', [yiea] 'they, them',
['areleg] 'it's me', ['?slége] 'where?', ['?slee] 'it's me',
['allx] 'sibling', [te] 'the (present, visible, masc. or
sex unspecified)', [ta] 'your (sg.)(present, visible, masc.
or sex unspecified)', ['owUte] 'nobody', [sxeta] 'the same
thing', [temk' 6.\* k'wes] 'hot time, summer', [ptamit] 'ask
s-th, ask s-c', ['?ɛx i':] 'be small', ['ax et] 'give s-th',
['?£'q] 'be outside', [s?£'q] (a ~ a.) 'the outside',
[sm£te'qe] (e ~ e, e preferred) 'brain', [sm£te'elĕux']
'you're smart' (BK), [p'£te't] 'needle', [p'ac')te'£]]
'I sew', [q£wx] 'steelhead trout' and [sq£we] 'potato,
Indian potato (wapato or broad-leafed Arrowhead [Sagittaria
Latifolia])'.

['\$'y] 'keep on going', [slâ'y] 'fir bark', [k\*2'y] 'bluejay', [k\*xêm] 'counted', [hâ'we] 'to hunt (animals)', [sp'&'tb'elp] 'Indian current bush (probably Ribes Sanguineum 'flowering red current' which has red to pink flowers and blue berries)', [q'&'mi] 'adolescent girl', [q'&'q'emi] 'little girl', [slll&'li] 'women', [eiye'q''&'sls] 'dig'.

1.2.15. /ə/ has allophones determined by the speed of speech and by three sets of consonants:  $Y = [1, \pm, \chi, y, s, \ell', \ell']$  (the palatal and alveolar consonants except [+', h]),  $W = [m, w, k^W, k'^W, x^W, q'^W, q'^W, q^W]$  ([m], [w] and labialized consonants), and  $X = [p, t, \delta, q, p', t \theta', t', \lambda', \delta', q', \gamma, \theta, \delta, q, h]$  (remaining consonants). The allophones of /ə/ are  $[\pm]$  central unrounded lower-high vowel, [I] front unrounded

lower-high, [U] back rounded lower-high, and [e] central unrounded mean-mid (stressed or unstressed).

/e/ → [±] in allegro unstressed syllables, especially adjacent to a stressed syllable with length (long vowel or long consonant) (cited in phonetic quotations throughout as [±] instead of more cumbersome (±1).

At normal speed  $\rightarrow$  [I]: (x, x), x, y m

At normal speed  $\longrightarrow$  [U]:  $k'^{W}$   $\not e$ ,  $x^{W}$  1

At normal speed  $\longrightarrow$  [a]: X\_X, (Y,W,X)\_#, 1\_(¢,¢')

At normal speed elsewhere → [I] in free variation with [e]: (Y, W, X) Y, Y \_\_X

At normal speed elsewhere -> [U] in free variation with [e]: (Y,W,X)\_\_W, W\_\_X

The free variation is noticeable especially with different speakers (in a given word for example one speaker might use [U] adjacent to  $[q^N]$  while another speaker might use [e]). The free variation is also noticeable in citations of a word on different dates by the same speaker. In comparing the occurrences of [I] in the speech of different speakers, there appear to be a few differences in conditioning environments. The statements above are for the speech of AC. In the speech of DM, BJ and RM [p'] and [ $\delta$ ] are nearly in free variation, and as a result [ $\delta$ ] is a member of the palatal set, Y, which conditions  $/e/\longrightarrow$  [I]. Also in the speech of DM and BJ, the environment 1 conditions

/e/  $\longrightarrow$  [I] (instead of [e] as in the speech of AC). In the speech of AC, DM and BJ the borrowed phones [k] and [k'] function as member of the palatal set Y in conditioning [I].

Among the words analyzed for this chapter there are 993 examples with [e], 321 with [I], and 96 with [U] in the speech of AC. In the prime environment for [I]. Y Y. [e] occurs in 30 examples and [I] in 130 examples: in the prime environment for [U], W W, [a] occurs in 32 examples at most and [U] in 32 examples. These figures provide further guidance for the free variation at normal speed. The frequency of these allophones in the words gathered from DM and BJ is the same (615 examples with [a], 140 with [I], and 61 with [U]). The proportions are similar to those for AC in the W W environment, about equal numbers of examples with [e] as with [U], but in the Y Y environment BJ and DM have 64 examples with [I] (71 if one includes 1 & as Y Y) and only 18 examples with [a] (22 if one includes 1 & as Y Y). So it appears that the environments in which [I] can occur produce [I] more dependably in the speech of BJ and DM than in the speech of AC.

Examples of /e/:

[swlxixIq(')] 'marsh blueberries', [sq\delta txIm] 'fog,
mist', [\delta t] 'we were (here)', [k'\lambda txt] 'count s-th',
[\delta wiy\intel] 'belt', [s\delta yIm] 'it hurts', -[\delta I] 'I (subject)',
-[\delta I] 'hand', -[xIl] 'foot'.

 $[x'^W \tilde{U} \not\in lUx^W]$  'see s-th, see s-o',  $[x^W \tilde{U} lm Ux^W]$  'Indian', and all inflected forms of these words.

[yıı·is] ~ [yıı·is] 'tooth, teeth', [sɪláqell] ~
[ŏtláqelt] 'yesterday', [lllıp'lxɪs] ~ [lllıp'eyxɪs] 'he
is eating (without hands, like an animal)', [wə'â·lɪs]
'if they get into a cance', [xɪxɪs'm] 'it stinks',
[sɪlɪɪəɛ'] 'two different things', [kwsɪs] 'so that he,
(subordinate 3rd person subject)', [šxwq'éyq'asɪɛ] 'netting shuttle for making nets' (DM), [k'ik'uyɪlɪp] 'pea
vines, bean vines', ['éyɪs] 'to have fun', [sɛ'lɪxwéyu]
~ [sɛ'lɪxwiyu] 'Chilliwack', [e'î·ɛ'Isəm] 'growing up';
[lɔɛ'əs] 'one dollar', ['isâ·ləs] 'two dollars', [wətlsəs]
'when it reaches, when it gets up to', [sɛ'sə] 'pintail duck'
(BJ), [seliyəlp] 'short Oregon grape bush', [sxây·əs] ~
[sxây·Is] (a ~ e ~ e) 'head', [sɛ'əláxwəm] 'seasoned spirit
dancer', [sk'wi·ləɛ] 'lame hip (esp. if congenital)',
['ɛlóɛɛ] 'where?'.

[mIstiyUxw] 'person', [mistUxw] 'bring s-th, give me s-th', [mile] ~ [m6le] 'child (son or daughter)', [tclwilep] 'it's you, you're the one that', [k'WIs] ~ [k'Wls] 'that I, for me to', [k'WIix] 'shoot (with gun or bow and arrow)', [tis] 'get up to, reach', [tIl mæ'l] 'my father' (tIl ~ tl), [0Il tæ'l] (0Il ~ 0l) 'my mother', [xWIl] ~ [xWel] ~ [xVl] 'still, yet', ['igIt læm] 'we went', [s'ig'lg'|commal speed) ~ [s'tg'es] (hyper slow) 'stuttering', [spixyel] 'prairie, open grassland', [sa'tIg] 'north-east wind', [qWeqWIles] 'to gossip', [tipIIl] 'eyelash', [yi0est] 'tell s-th', [six'etl] 'older sibling', [mâmet'Is] 'pointing', [mát'es]

'point at, aim', [&'&l'Il'te'xIl] 'short-legged runt';
[wel&mes] 'if he goes, when he goes', [mey@am&#Il] 'I help
you', [tes&lèqel] 'bump your head', [télex\*\*±s] - [télex\*\*±s]
'he understands it, he finds s-th out', [q\*\*s?ápełp] 'crabapple tree, apple tree', [q\*\*6|s] 'to make boil', [xéye@áxIs]
'he fought me', [\$'e\$'1.\$' e\*'] 'short'.

[xwum] ~ [xwem] 'hurry'. [šxwuwe] 'cougar'. [temuxw] ~ [t6m·UxW] 'earth. land, dirt', [s0'6kWUkW] 'blue elderberry'. [gWUgWmi\*1] 'rattles (used in spirit dancing)', [xWUqWatIs] 'he dragged him', [čaléxWUm] 'to bleed'. [telfwe] ~ [telewe] 'it's you (sg.), you're the one that'. [héyUqW] ~ [héyeqW] 'fire'. [słóxWeł] ~ [słÚxWeł] 'canoe (any type): transportation'. [suq'Wemf'ws] 'inner cedar bark' (AC from LH), -[lUxW] 'do accidentally to s-o. manage to or happen to do to s-o'. -[stUxW] 'make s-o do. cause s-o to do'. -[čUxW] 'you (sg.)(subject)'. [p'Uk'W01'lem] 'throw together a light snack' (SJ et al). [st'Uwók'W] ~ [st'ewók'W] 'white clay (used for paint or coloring)'. [te'UxWte'UxW] -[t9'exwte'exw] 'osprey'. [euk'w] 'pulled out. straight'. [00k'Wut] 'pull s-th'. [?owUte] ~ [?owSte] 'nobody. nothing'. [se'iwUc'] ~ [se'iwac'] 'red elderberry', [?a'xWUst] ~ [?4.xwest] - [?4.xwest] 'give s-th'. [sk'wulwus] 'child's · in-laws', [sk'wek'wflwes] 'children's in-laws'.

[spepelál] 'bunch of small crows', [steqtå:l] 'doorway, door of a longhouse', [yéq bep] 'light a fire', [swaqe0] 'husband', [p'éq'] 'white', [t'ât'etê'em] 'sour, fermenting',

[te'exte'ex] 'stinging nettle'. [sh'ep'el'e/] (1. ~ 1) 'tail'. [c'épeq] (c' - c' - se') 'skunk'. [q'eq'mastel] 'dip net (on a pole)', ['apa-le] 'ten (people)', [Ost] 'he says', [xe?á·01] 'four' or [xé0]sxe] 'forty', [spehæls] 'wind (noun)', [qéx] 'be many'. [xét'es] 'he savs'. [(s)č'±č'á] 'to be on top of'. [qeh'as [su] 'and so', [čičíxw] 'swollen'; [?slágs] 'where?', [lág's] - [lág'a] 'one'; [si·le] 'grandparent', [se'iyaye] 'twins', [sése] 'mintail duck' (BJ). [k'Wuclame] 'see you (sg.)', [?6we] ~ [?śwa] 'no, not, to be not', [kWa] 'the (near but out of sight)'. [k'We] 'the (distant, hypothetical, not concrete)', [xW6] 'to get somewhere, arrive', [te] 'the (present in sight, masculine or sex unspecified) . [00] the (present. visible, female, human)', [qe] 'and'. [te'e] 'to. at' (as in [t0'e sq'Weyillx] 'to/at the dance'), [spaleqWit0'e] ( - a) 'ghost; corpse'. [q'é(·)yt'a] ~ [q'é(·)yt'a] 'swing (noun or verb)'. [h'a] 'by (instrumental preposition used with passive)'. [a'e] 'but'.

Besides the examples of [#] seen above (written [#]):

[stif'\*s] 'cut and dried salmon', [y\*w\*\*lmlps] 'before',

[mæm6y\*t] (a ~ i) 'helping s-o', [sk'\*\*±xå\*s] 'month; moon',

[sq\*\*imæ\*y] ~ [sq\*\*mæ\*y! 'dog' (/sq\*\*mæ\*y/ ~ /sq\*\*mæ\*y/),

[piw\*tm] (i possibly [i·]) 'get frozen', [sæ\*sq'\*±s] 'Sasquatch', [se'\*miw] (t ~ e) 'core (of plant, rock, tree, etc.),

nut, seed, pith', [st\*tf\*s] 'near'.

/e/ never occurs before / ·/.

1.2.16. /u/ always appears as high back rounded [u] but is relatively uncommon (about 25 per 2000 words). In the environment y\_w, /u/ frequently varies with /i/ (for example, /syúwel/ -/syíwel/ 'spirit song'). /u/ appears both in borrowings ([kapú] 'coat' < Chinook Jargon in turn from French "capote", [stútilo] 'creek' < Nooksack, [šúkwa] 'sugar' < English) and in native words. Some examples of native words with /u/ are: [túx'á·] 'it's him, he did, he's the one who' (a· ~a, and rarely u ~ u· here), [eúx'á·] 'it's her, she did, she's the one who' (a· ~a and u ~ u· as above), [yux'á·lem] 'it's them (sex not given), they did, they're the ones who', [qex'asīsu] or [qésu] 'and then', [kwá·tɪs] ~ [kwátɪs] 'he gets (fetches) something'.

/u·/ always appears as [u·] and is also relatively uncommon. It occurs in a few borrowings ([kʰešū·] 'pig' < Chinook Jargon, [spū·l] 'spoon' < English (NP)), and in native words: [tū·xʰ] 'nine', [tū·xʰ]sxɛ] 'ninety', [s॰ū·met] 'lazy', [pˈɛlyū·s] - [pˈelyū·s] 'bark (of a tree)', [eʰū·lqʰl] 'all talking'.

1.2.17. /o/ always appears as upper-mid back rounded [o] and is somewhat more frequent than /u/ (about 45 per 2000 words). /ew/ is phonetically distinct from /o/ and /ow/ in most cases, although the three sometimes alternate morphophonemically. ES phonemicized [o] as /ew/ for the Cowichan, Husqueam and Chilliwack dialects of Halkomelem and [o·] as /ew·/ for the Chilliwack dialect. This may work reasonably

well for Cowichan and Musqueam where [o.] is very rare, but it is awkward for Chilliwack where [o] and [o l are more common and well-established. Chilliwack seems to have been influenced in this regard (see Introduction) by the Nooksack language, which has a very prominent /o/ (see Amoss 1961). Phonemicization of [o] as /aw/ and [o·] as /aw-/ would 1.) obscure the phonetic differences between [aw], [Uw], [o] and [ow], 2.) make more difficult the statement of the phonemics of [U] before w, of [1] and [m] after w, and of delabialization of labialized consonants before rounded vowels. and 3.) make more difficult the statement of root shapes (canonic shapes). In addition, the comparison of Musqueam and Cowichan cognates shows that the use of /aw, aw. / for Chilliwack would add a /w/ not present in words in the other dialects (for example, ES has Cowichan and Musqueam /g'Wi.n?/. Chilliwack /g'Wewel/[g'Wô.l] 'ear'; Cowichan /há·n?/. Musqueam /hówn?/[hó·n?]. Chilliwack /hew·leys/(Amy Cooper has [ho·liys]) 'humpback salmon': Cowichan /wél?/[w6·1?], Husqueam /wf·1?/, Chilliwack /wéw·1/ (Amy Cooper has [wô:1]) 'tule').

Most cases of /o/ are adjacent to labial or labialized consonants, although some are not. Examples of /o/:  $[m6k'^{W}] 'all', [stá·lo] 'river', [°6we] \sim [°6we] 'no, not, be not', [k^{W}6x^{W}ee] 'cohe salmon', [x^{W}oxe] 'not yet', [w6q'^{W}] 'drown, float face down', [p'6w1·tes] 'patch s-th up', [sk'^{W}1±e] 'parent-in-law', [sx^{W}ex^{W}iyam] (e ~ e) 'fable, story'.$ 

Compare the following examples of /ew/[ew]: /lśwe/
[lśwe] ~ [lʿwe] 'you (sg.)', /spipew/ 'frozen', /stætew/
'light (illumination)', /yewæ'l/ [yUwæ'l] ~ [yewæ'l]
'first, preceding', /k'ewéls/ '(a dog) barks', /sqśweqs/
'raven', /st'ewók'<sup>W</sup>/ [st'Uwók'<sup>W</sup>] ~ [st'ewók'<sup>W</sup>] 'white clay
powder', /lśc'ewec/ [læg'ewUg'] 'hundred', /?ewá'lem/ 'play'.

/o·/ only occurs stressed and always adjacent to labial or labialized consonants or [1]. Besides the examples above, the following can be cited: [čəwô·kp] 'cottonwood', [tb'ô·ltb'iyəkp] 'tall Oregon grape', [sxwô·sem] 'soapberry; Indian ice cream', [sk'wô·lmUxw] 'blackberry', [le¢'ô·mUxw] 'different tribe, tribe', [q'əxwô·wək] 'ocean-going canoe'.

1.2.18. /a/ has two allophones before length, [o] (lower-mid back rounded) and [a] (low back unrounded). [o] appears infrequently in the speech of AC (only in a dozen words attested so far), and in those environments [a] is always an acceptable alternate pronunciation. [o] appears more frequently in the speech of BJ (28 words out of 522 attested) but appears only once ([°5·q<sup>N</sup>læ¢] 'back (human)') in the 195 words from DM; in the speech of BJ [a] is always an acceptable alternate.

For AC, 
$$\langle a \rangle \rightarrow [0]^{\frac{f}{L}}[a]: C^{W} \cdot C^{-V}, \frac{\pi}{L}, C \cdot C^{W}, 1 \cdot c^{-1}$$
  
 $\rightarrow [a^{V}]: \underline{\pi}$   
 $\rightarrow [a]: elsewhere$ 

(C  $\Xi$  any consonant,  $C^W$  = labialized consonants,  $C^{-y,\frac{\gamma}{2}}$  = any consonant but y or  $\chi)$ 

This means that [o] only occurs preceding length, under primary stress (including [^]) and adjacent to a labialized consonant (length may intervene) or 1 \_\_\_\_\_\_.s. And when [o] occurs in this environment it varies freely with [a] but appears only 30 percent of the time. Examples: [k'\dot\_6.k'\dot\_9s] \_ k'\dot\_6.k'\dot\_9s] 'hot, be hot'. [sq\dot\_6.ls] ~ [sq\dot\_6.ls] 'something to boil in', [?6.q\dot\_10s] ~ [?6q\dot\_9.ls] (and 6. probably also ~ \dot\_6.) 'back (of a person)', [sk\dot\_6.wi\dot\_] ~ [sk\dot\_6.wi\dot\_] 'sturgeon', [16.s] ~ [l\dot\_6.s] 'to be fat'. Also note the y-glide before [x], as in -[ea\dot\_x] 'me (verb object)'; I have omitted this glide in phonetic citations throughout.

For BJ /a/ 
$$\rightarrow$$
 [o]  $\overset{\mathcal{L}}{\mathcal{L}}$  [a]:  $(C^{W}, C_{lab}, C_{pv}) \overset{\checkmark}{} \cdot C^{-y}, \overset{\chi}{\mathcal{L}}$ ,  $C \overset{\checkmark}{} \cdot (C^{W}, C_{lab}, C_{pv})$ ,  $1 \overset{\checkmark}{} \cdot C^{-y}, \overset{\chi}{\mathcal{L}}$ ,  $C \overset{\checkmark}{} \cdot (C^{W}, C_{lab}, C_{pv})$ ,  $1 \overset{\checkmark}{} \cdot C^{-y}, \overset{\chi}{\mathcal{L}}$ ,  $C \overset{\checkmark}{} \cdot (C^{W}, C_{lab}, C_{pv})$ ,  $1 \overset{}{} \cdot (C^{W}, C_{la$ 

(C<sub>lab</sub> = labial consonants, C<sub>pv</sub> = postvelar consonants)
For BJ then, [o] only occurs preceding length, under primary stress and either adjacent to labialized, labial or postvelar consonants or l´.'.'0. [o] occurs in this expanded environment in 30 out of 70 cases of /a/ (43 percent), while [a] occurs in the remaining 40 cases. [o] thus is more frequent in BJ's speech than in AC's speech. Examples from BJ: [k'Wô·k'wos] 'warm, hot, be hot', [x\sigma^6.\frac{1}{2}\frac

'lake', [q'6'q'6y] 'be sick; dying', [16'0] 'big trough (for cocking), (wooden) dish'. All cases of [o·] vary with [a·] here.

The speech of AC seems to occupy a middle ground between the speech of DM and that of BJ regarding the frequency and privileges of occurrence of [o]. It seems natural enough that labialized consonants might contribute some rounding to [a] in the speech of AC and BJ, yeilding [o].

Examples of [a¹] in the speech of AC include:

[sá·x³¹] 'grass; hay', [čâ·k³] 'be far away', [q¾â·m]

'moss', [x¾â·q²³] 'sawbill, fishduck, merganser', [t²â·k²³]

'(go) home', [sqemâ·] '(female) breast; milk', [pá·tIs]

'he blew s-th', [p²á·tθ²is] 'baby basket, basketry oradle',

[qâ·] 'water', [xá·xøɛ] 'little lake', [q²â·w] 'to howl',

[q²á·q²ey] 'be sick, dying', [eá·tl] 'mouth', -[?â·ll] 
-[?à·ll] 'young (human or animal)', [syâ·ys] 'work',

[sk²¼xâ·s] :month; moon', [x²â·] 'it's him, it's her,

that's \_\_\_; he/she/it did; he's the one that \_\_\_, she's

the one that \_\_\_'.

Examples of [a] in the speech of AC: [x<sup>w</sup>áx<sup>w</sup>a] 'light-weight', [q'<sup>w</sup>áq<sup>w</sup>±t] 'hit s-th', [máls<sub>m</sub>] 'swamp blueberry (tall ones, grow at mouth of Fraser River)', [swáweles] '(adolescent) boys', [spápi] 'crooked', -[@am] 'you (sg.) (object of verb)', [sč±táye@el] 'upper lip', [láleg'e] 'one (person)', [t'át'elm] (EJ has [a·]) 'flea', [yáswe]

'perhaps; I don't know', [sčowát] ~ [sčowát] 'know how to, good at'.

1.2.19. The Chilliwack dialect of Halkomelem has three degrees of phonemic pitched stress: // primary or highpitch stress, // secondary or mid-pitch stress, and (unmarked) low-pitch unstressed.

// has several allophones, conditioned by length (in the syllable in question) and by stress (on the other syllables within the word):

/// — ['6], loud stress with high and level pitch which seems to be about the musical interval of a sixth above the unstressed low pitch. This allophone occurs only on short vowels immediately preceding a weakened word boundary<sup>4</sup>; the short vowel is always the end of a monosyllable (demonstratives and particles which otherwise occur unstressed, the only words which can occur unstressed). The environment can be stated as over the vowel in #(0)CV(‡), where (‡) stands for weakened word boundary and (0) is an optional consonant.

/'/ -> [^]. loud stress with high falling pitch

<sup>4.</sup> Weakened word boundary,  $(\mbox{$\frac{\pm}{2}$})$ , is characterized by a very faint pause or no pause at all; it usually follows vowel allophones [I], [U] and [£], which cannot otherwise occur word-finally. For example, [t1 $^6$ ( $^{\pm}$ )] and [t1 $^{\pm}$ ) | the (present, visible, masculine or unmarked sex) frequently precede nouns beginning with [s]-, the nominalizing prefix; [I] occurs in the environment t\_s but not in the environment t\_ $^{\pm}$ ; if we consider the weak phonetic nature of ( $^{\pm}$ ), then [t1 $^{6}$ ( $^{\pm}$ )s] and [t1( $^{\pm}$ )s] become explainable.

which starts about the musical interval of a fifth above unstressed low pitch and falls to low pitch. This allophone occurs on long vowels in word-final syllables, and in free variation with ['] (see below) on the last long vowel in a word in non-final syllables.

/'/  $\longrightarrow$  ['], loud stress with high level pitch varying between about a fifth and a fourth above low pitch; this allophone occurs elsewhere (wherever ['6] and ['] do not). ['] can occur more than once within a word. ['] has its pitch a fourth above low pitch when following ['6]; however, usually the downstepping is so strong that /'/  $\longrightarrow$  /'/ (['3] after ['6])(see Morphophonemics).

Examples of // include: [li\(\frac{1}{6}\), \frac{1}{6}\) at the gathering', [le\(\frac{1}{6}\), \frac{1}{6}\) \(\frac{1}{6}\), \frac{1}{6}\) where is the woman?', [ti\(\frac{1}{6}\), \frac{1}{6}\) \(\frac{1}{6}\), \frac{1}{6}\) where is the woman?', [ti\(\frac{1}{6}\), \frac{1}{6}\), \frac{1}{6}\), \(\frac{1}{6}\), \(\frac{1}{

<sup>5.</sup> See the articles listed on the following page

for a discussion of downstepping and tonal systems: William E. Welmers: "Tonemics, Morphotonemics, and Tonal Morphemes; in <u>General Linguistics</u>, vol. 4, no.1; pp. 1-9, University of Kentucky (1959), and the following: J.M. Stewart: "The Typology of the Twi Tone System" (pp. 1-27), Paul Schachter: "Some Comments on J.M. Stewart's 'The Typology of the Twi Tone System' (pp. 28-42), J.M. Stewart: "Reply" (pp. 43-48), and William E. Welmers: "A Further Note on the Typology of Tonal Structures" (pp. 49-67), all in Bulletin of the Institute of African Studies, vol. 1, no. 1 (1965).

1.2.20. /'/ has no complex allophony; it is level mid pitch (about a third above unstressed low pitch) with loudness ranging from moderate to loud. It is transcribed phonetically [']. More than one ['] can appear within a word, and /'/ can be flanked by /'/, /' or unstressed syllables. ES reports some words with /'/ as the only stress while JH does not; I find words with only /'/ stress in sentences where morphophonemic downstepping has changed the stress from its usual citation form /'/. But I have also found a few words with /'/ as the only stress in citation forms. ES gives the following words with /'/ stress only: /t'â·xw'/ 'white fir', /kwanlaxw'/ 'root', /spîd/ 'ice', /təm·àxw'/ 'earth', /sç'î·m/ 'berry', /xè·m/ 'cry', /mèqe/ 'snow', /seleyê/ '"lay" spirit power', /sxwatî·xy/ 'helldiver', and /xya·ysəm/ 'ant'.

JH has only /t'axw' 'white fir' and /xéysem/ 'ant' among these words. My recordings of these words are:

/kwémléxw' 'root', /spi·w/ 'ice', /tém·éxw' - /tèm·èxw'
'earth', /se'î·m/ - /se'î·m/ 'berry', /xé·m/ - /xè·m/ 'cry, weep', /méqe/ (AC) - /mé·qe/ (BJ) 'snow (on the ground)',
/s°éliye/ '(ordinary) dream, vision (seen by an average person)', /sxwatixw/ (BJ) 'helldiver, grebe', /xyé·ysem/ 'ant'.

While my recordings only confirm (partially) two of the ES words with /'/ stress, I have a few examples myself stressed only with /'/: /sc'èl·èx $^{W}$ / 'eddy', / $q^{W}$ e $q^{W}$ àyêls/ 'orange color' ~ / $q^{W}$ i $q^{W}$ áyels/ 'orange (fruit)(and color?)',

/e'ew&:li/(BJ) ~ /e'ew&:li/(AC) 'Soowahlie (place name)',
/w&y:\delta\s/ ~ /w&y:\delta\s/ ~ /w&y:\delta\s/ 'tomorrow', /q"\delta\delta\s/
(prompted, AC) ~ /q"\delta\delta\s/ (BJ), ES /q"\delta\delta\s/, JH /q"\delta\delta\s/
'whale', and /q"\delta\delta\s/ 'speak, talk'.

Another difference between the present grammar and ES and JH is our frequent disagreement with stress patterns involving /'/. ES might have '' on one word which JH cites as '' and I have as ''; another example might show ES '', JH '', EG ''. It seems likely that at least some of these differences are idiolectal or free variation.

Examples of /'/ besides those already cited, include: [mdsmIsà·ll] 'calf', [?f·°exwi·l] 'small, little', [te'êxwxîl·5m] 'wash one's feet', [là·q'whexxIs] 'he slapped me', [?á·0àlòm] 'I was called', [pf·wetàlòmöæ] 'you folks will get frozen'.

Unmarked low unstressed syllable; have a pitch level of one, relative to [']  $(^3)$ , [']  $(^4,^5)$  and ['<sup>6</sup>]  $(^6)$ . Many examples have already been given.

1.2.21. Some minimal pairs:

1.) [kW2.1] 'to hide'

[aW2.1] 'mosquito'

[gæ•]] 'to steal'

[q'æ.l] 'believing'

[ owa - 1] 'to speak'

In'ac'l 'white'

3.) [t'éa'W] 'it broke (of rope)' [t'5kW] 'get muddy' (a ~ U)

4.) [kWas] 'demonstr. + vou (sg.)' [k'#as] 'burned (of a person)'

5.) [kWa] 'the (near, invisible)'

[k'Wal 'the (far/invisible)'

[a'a] 'but'

[ge] 'and'

[xW6] 'get somewhere, arrive'

[0a] 'the (near, visible, female)'

[t0'0] 'to. at (in \*at a dance")'

[h'a] 'by (instrumental preposition used with passive)!

[ta] 'the (present, visible)'

[ma] 'evidently'

[wa] 'if: when'

[le] '3rd person syntactic past marker!

6.) [m6g'W] 'to burst' [m6k'W] 'all'

[mákw] 'stout'

[mág'] 'filled with food

[mâ·qW] 'bird'

[w6q'W] 'drowned, drift face down

7.) [q'Wál] 'cooked: ripened!

[dál] 'bad'

[kWal] 'my (near, invisible)

[k'Wəl] 'my (far, invisible)'

8.) [xWa] 'turn into'. 'hungry'

[oWel 'get a hole'

[a'a] tort

[kW 2] 'your (sg.) (near, invisible)'

[k'W&] 'your (sg.) (far, invisible)'

- 9.) [t'á(')t'əlm] 'jumping flea'
  [te'á(')te'əlm] 'chilled'
- 10.) [spæ•0] 'black bear' [sp\*æ•t0'] 'Indian currant'
- - [62.t] 'dark(ness)'
- 12.) [\*i] 'difficult'
  [li] 'be there; to, at'
- 13.) [\*'1¢It] 'we're difficult'
   [\*'1°¢'It] 'sneak up to s-o'
   [\*1°¢'It] 'cut s-th'
- l4.) [sxél·e] 'leg, foot' [sxÎle] 'penis' (BJ)
- 15.)  $[x^W = ?1 \cdot t]$  'what is it?'  $[x^W = ?1 \cdot t]$  'wedge'
- 16.) ['â·we] 'seagull' (BJ)
  [hâ·we] 'to hunt'
  [xâ·weq] 'wild carrot,
- 17.) [?f.øIl] 'I'm here'
  [?f.ø'Il] 'lazy'
- 18.) [mixe'Il] 'chickadee' [mixe'Il] 'louse'
- 19.) [t'æ'yæ] 'jealous' [t'æ'yeq] 'angry'

- 20.) [11] 'be there; to, at'
  - [li•] 'interrogative'
  - [læ] [lɛ] 'go'
  - [le] '3rd person syntactic past marker'
  - [lá] 'this'
- 21.) [lûł] 'already, 3rd person subject' (< //le-weł//)
- [leł] 'go (do s-th)!'
  22.] [q'w61] 'cooked; rip
  - ened; ripened; [q'Wô·l] 'ear'
    - [q'Welq'Well 'overripe'
      [qWú\*lqWell 'all talk-
    - ing'
- 23.) [téxw] 'mid-, half-' [tû·xw] 'nine'
- 24.) [%\*p] 'ten' [%\*pl] 'maggot' (BJ)
- 25.) ['imlx] 'walk' ['i'mlx] 'walking'
- 26.) [q'Wəyillx] 'dance' [q'Wəyillx] 'dancing'
- 27.) ['iyIs] 'female friend, pet name for a girl friend'
  - [?éyIs] 'fun, pleasant'

- 28.) [?éy] 'be good' [?â·v] 'keep going'
- 29.) [k'Welô'ws] 'his skin, her skin, its hide' [p'elvû'ws] 'bark (of tree)'
- 30.) [q'â·w] 'howling'
- [q'awe] '(walking) cane'
- 31.) [lexwelter] 'spits' [lexwelter] 'spitting'
- 32.) [k'WÚglamágIl] 'I see you' [k'WÚglà·màt] 'you were seen'

- 2.0. Introduction. Since morphophonemics is the prediction of the alternations of phonemes from their phonemic and morphemic environments, it seems appropriate to begin this chapter with phonotactics, which describes and predicts phoneme distributions and clusters from the phonemic environment.
- 2.1. Phonotactics. There are no clusters of vowels and no vowel-initial words in Chilliwack Halkomelem. All vowel phonemes can occur medially and finally in a word. All consonant phonemes can occur initially and intervocalically, and all but /h/ can occur finally (though /?/ is so far attested finally only in one word, /?4.?/ 'bowel movement' which could well be phonologically deviant). Borrowed phonemes /k/ and /k²/ are omitted in the present treatment of phonotactics because their distribution depends on the phonotactics of the language from which they are taken.

Consonant clusters of two and three members occur initially, medially, and finally; four-consonant clusters occur only medially and finally. DM had an idiolect which tolerated many more initial consonant clusters than the speech of AC. Thus Harris (1966) has phonotactics which differ from mine in this regard. The present treatment is based mainly on the speech of AC but includes all material I have from DM, BJ.

NP. CT. etc.

Consonant clusters (initial, medial, or final), so far attested, do not begin with glottal phonemes /?, h/ nor with /p'/. I suspect the absence of /p'/ is accidental and that it may be found beginning consonant clusters in words not yet elicited. Initial consonant clusters cannot begin with sonorants (/m, 1, y, w/) or glottals (/?, h/), and final consonant clusters cannot end with sonorants or glottals. Other features common to clusters in more than one position will be summarized at the end of this section (2:1.).

#CC. In initial position /s/ is attested before all consonants but /s/. Only a few geminates occur initially (re-articulated): /q'q'/(DM) and /cc/([d'\circ]). There is only one case of an initial glottalized consonant followed by its plain equivalent (/c'c/[e'\circ]) (DM), with no case of the reverse. Spirants /s/ and /x\(^\circ\) are the only initial consonants that can precede glottal consonants (/?/ and /h/). Also no cases were found of an initial consonant followed by its labialized version or vice versa. Few consonants are found before glottalized consonants: /s/ or /x\(^\circ\) precedes /\(^\circ\), /c/ precedes /\(^\circ\), /\(^\circ\), s, c'/ precede /\(^\circ\), /s, c, c', \(^\circ\), \(^\circ\)

ized. Only /s/ precedes glottalized consonants other than /k², 6², k², q², q², q², C² is most often /s/, /½/ or /q²/, and it can be a sonorant or a glottal as well as anything else (a stop, spirant or affricate). ["Most often" here means appearing in more different clusters than other consonants.] C₁ is most often /s/ and next most often /c, ½, x²/ or /c²/; other consonants are less frequent as C₁. Other than the patterns mentioned so far, there don't seem to be any patterns operating to limit the combinations of consonants in initial two-consonant clusters.

#CCC. The initial three-consonant clusters attested (all across morpheme boundaries) are: /s(ts, t', t'x, k''t, k'\*x'', q'm, q'x,  $\Theta$ x,  $\Theta$ x,  $\Theta$ x')/(AC) and /stq'(DM), /sq'q'', sQq'(CT); /sx''(',  $\Theta$ , m, 1, w)/ (AC) and /sx''(t,  $\Theta$ ', c, q'', q', h)/(DM), /sx''( $\Theta$ t,  $\Theta$ t)/(CT). G1 must be /s/. G2 is often /x''/ but can also be a number of other spirants and stops. G2 is not a sonorant, labial, glottal or sibilant; there are also no examples of /x'', x, x''/ as G2; the other gaps seem accidental (no / $\Theta$ ',  $\Theta$ ', q' or /q'''/ as G2). G3 cen be anything that G2 is not (sonorant, labial, glottal, sibilant, /x'', x' and probably /x''/, and / $\Theta$ '/ and /q/ as well. In addition G3 can also be /t, q', q'',  $\Theta$ /. DM even has an /h/ as G3 in #CCC. The principle seems to be for G1 to be /s/ and G2 and G3 to be mem-

bers of nearly mutually exclusive sets and as dissimilar to each other as possible. There is also an avoidance of glottalized consonants in  ${\bf C}_1$  position and of glottals, labials and /y/ in  ${\bf C}_1$  or  ${\bf C}_2$ .

-CC-. Medial two-consonant clusters do not begin with /p'. ?. h/ but begin with all others and can end with any consonant. Sonorants (/m, 1, w, y/) can occur before any consonant, and /s/ and /t/ can occur before the next largest number of consonants (13 and 12 respectively). All or most consonants can occur before /t, c, 1/, and many can occur before  $\theta$ , q/ and /s/ (14, 13, and 11 respectively). Where Co is a glottal,  $C_1$  can be /s/ or /m/; it also can be /l/ or /c/ if the glottal C2 is /?/. C2 can also be a sonorant, among other things. Length / / also appears as C2 after sonorants and /s, 0, t, q/. Whenever a medial geminate might be produced by affixation, a rule converts the second member to length / ·/; this rule only operates intervocalically. When Co is glottalized, Co is a spirant, sonorant, or, rarely, a stop (/p, kw, q, w/). There are two cases of a glottalized consonant followed by its plain version, /c'c/ and /q'q/(CT) (as in /lec'ces/ 'cut one's hand' and /sleq'qel/ 'way upriver' (CT)): There are no cases of the reverse, a plain consonant followed by its glottalized version. There is one case of a labialized consonant being followed

by its plain version,  $/q^Wq/$  (as in  $/x^Weq^Wq\ell\cdot ylem/$  'stick something down one's throat'). There are no cases of the reverse unless one considers  $/x^y/$  the plain version of  $/x^W/$  ( $/x^y fx^y x^Wellewe/$  'fish air bladder' SP, HP).

-CCC-. Medial three-consonant clusters almost all occur over morpheme boundaries. Those attested so far are:  $/1(s(t,\theta,c,1,x^y), q(t,c,1), x^y(c,t), x^w(c,t),$  $\theta(t,\cdot)$ , t, c,  $\theta$ ;  $y(s(t,\theta,c), t(x^y,1), q^wt, x^wt,$ 1(t,x),  $x(\theta,t)$ ,  $\theta$ ;  $x^{W}(s\theta,t,st,sx^{W})$ ,  $m(st,t\theta,sc)$ ,  $w(tx^{W},s\theta,t)$  $q^{t},\theta c)$ ,  $t(s\theta,st,\pm q^{W})$ ,  $\pm (st,cx^{W})$ ,  $p(sc,\pm x)$ ,  $x^{y}(st,s\theta)$ , s(tw,txW), k,Wt1/ and /qst/(DM) and /kWst/(CT). The pattern here is that C, can be a sonorant (/m,1,y,w/), stop  $(/p,t,k^{W},k^{W},q/)$  or spirant  $(/s,\pm,x^{Y},x^{W}/)$  but most often is /1/ or /y/. Co is most often /s/ or /t/ but also  $/\theta, \pm, x^{y}, x^{w}, x, c, c^{*}, q, q^{*}, q^{w}, 1/(stops, spirants,$ or affricates or /1/).  $C_z$  is most often  $/t, c, \theta, \pm, x^{y}, 1/$ (similar to the most frequent set for C2 in -CC-) and occasionally is /xw,x,qw,w/. C, does not include affricates, glottals, glottalized consonants (except  $/k^{W}/)$ , /x/ or  $/x^{W}/$ . Condoes not include labials, glottals, most glottalized consonants (only /c'/ and /q'/ appear) or /y/. C3 does not include glottals, glottalized consonants, labials (except /w/) or /y/; The avoidance of glottals and glottalized consonants seems to hold for all three positions, C1, C2, and C3.

The avoidance of labials and /y/ seems to hold for  $^{\text{C}}_{2}$  and  $^{\text{C}}_{\text{Z}}$ .

-CCCC-. Only two four-consonant clusters have been found so far, /yxwtc/ (/c'&'yxwtcel/ 'I dry something', /c'&'yxwtcexw'/ 'you dry something', etc.) and /tstxw'/ (/@&tstxwes/ 'he/she/it/they said to him/her/ it/them'). Each cluster occurs across morpheme boundaries. These clusters follow the same patterns of occurrence and avoidance for C<sub>1</sub>, C<sub>2</sub>, and C<sub>3</sub> as above for medial three-consonant clusters. C<sub>4</sub> appears to follow the C<sub>3</sub> pattern of -CCC-.

CC#: Final two-consonant clusters attested so far do not begin or end with /p', t', ', h/, and do not end with sonorants. Probably as a result of chance these clusters also do not begin with /c', x, x''/ and do not end with /k'', q'/. Sonorants, especially /l/ and /y/, are most frequent as C1, while /s/ and /t/, then /t/ and /x''/ are most frequent as C2. Where C2 is a consonant other than the four most frequent ones, C1 is almost always a sonorant. There are no cases of a glottalized or labialized consonant being followed by its plain version word finally. And there are no cases of the reverse, a plain consonant being followed by its glottalized or labialized version. When C2 is glottalized, C1 must be either a sonorant or (in one case) /x''/. There are no final re-articulated

gominates, and Co can never be length.

CCC#: Final three-member consonant clusters attested (most across morpheme boundaries) are:  $/1(st,x^yt,qs,x^ws)$ ,  $w(tx^w,q^t)$ ,  $y(x^wt,lt,\theta t, p)$ ,  $x^y(ts,$ tl), qwxwt, pxt, cxwl, lcxw/. These fit into the pattern for final two-consonant clusters in that C, is usually a sonorant and C3 fits the C2 pattern for CC#, most often /t, s, ½/ or /xW/. C2 has fewer restrictions than C3 but includes /t, s, 1, x (as in C2 for CC#) as well as /1,  $\theta$ , c,  $x^y$ , q,  $q^s$ , x,  $x^w$ /. So in final three-consonant clusters C, resembles C, of twomember clusters, C2 resembles an expanded C2 of twomember clusters, and C2 resembles more closely the C2 of two-member clusters. There are no examples of a glottal, a glottalized consonant, or /x/ or  $/x^W/$  as C1. There are no examples of a labial, glottal, glottalized consonant (except /q'/) or /y/ as C2. And there are no examples of glottals, glottalized consonants, labials or /y/ as Cz. There is an avoidance of glottals and glottalized consonants in all three positions  $(C_1, C_2, and C_3)$ , and there is an avoidance of labials and /y/ in C2 and C2.

CCCC#. Only one final four-consonant cluster has been found so far, /wtx $^W$ s/. It comes from the combination of two suffixes,  $\{-\text{\'ewtx}^W\}$  'building, room' and  $\{-\text{s}\}$  'third person possessive pronoun' as in

/cstteléwtxws/'his (her, their) smokehouse, his fish-smoking building', /cshsystéwtxws/'his (her, their) church', /lsméwtxws/'his (her, their) pub or bar', /xwelmexwéwtxws/'his (her, their) Indian house', and a number of other examples that could be constructed. This cluster fits the pattern for CCC#, in that  $C_1$  is a sonorant,  $C_2$  is /t/ (as found most often in triple clusters),  $C_3$  is /xw/.  $C_4$  fits the pattern for  $C_3$  in final triple clusters since it is /s/. Here too there is an avoidance of glottals and glottalized consonants in all positions and an avoidance of labials and /y/ in the last three positions  $(C_2, C_5, \text{ and } C_4)$ .

Summary of the features common to consonant clusters in more than one position. Two- and three-consonant clusters occur initially, medially, and finally; four-consonant clusters occur only medially and finally. No cluster yet attested begins with glottals or /p'/. Initial clusters do not begin and final clusters do not end with sonorants or glottals. Geminates occur only before vowels. Initially, geminates are re-articulated (only two cases occur); medially, C<sub>2</sub> of a geminate is replaced by length (this is a morphophonemic rule); there are also some cases of C<sub>2</sub> being length for historical reasons, with no synchronic affixation being involved; neither length nor geminates can occur word-finally. No clusters are attested with a

glottalized or labialized consonant following its plain counterpart; a glottalized consonant preceding its plain counterpart is rare initially (only /c°c/) and medially (only /c'c/ and /q'q/) and not found finally. A labialized consonant preceding its plain counterpart is rare medially (only  $/q^{W}q/$ ) and not found initially or finally. In two-consonant clusters C2 can be a glottal or sonorant initially or medially but not finally. In medial and final three- and fourconsonant clusters there is an avoidance of glottals and glottalized consonants in all positions and of labials and /y/ in all positions but C1. In initial three-consonant clusters there is an avoidance of glottalized consonants in C, and of glottals in C, or  $C_{2}$ . In three-consonant clusters  $C_{3}$  has roughly the same patterns of preference and avoidance as does C2 in two-consonant clusters (initially: nearly all consonants occur; medially: most often /t, c, 0, 1/; finally: most often /t, s, 1, xW/). In four-consonant clusters  $C_3$  fits within the patterns of preference of C2 in three-consonant clusters (medially: /t/ most often: finally: /xW/ among most frequent). In fourconsonant clusters  $C_h$  fits within the patterns of preference of C3 in three-consonant clusters (medially: /c/ most often; finally: /s/ among the only five possible).

Finally, this section on consonant clusters should be concluded with a disclaimer. Statements about non-occurrence, although based on an extensive corpus, may need adjustment after an extensive dictionary has been compiled and surveyed for clusters. Until that point is reached new clusters will still be turning up (and in fact are). This is quite understandable when one realizes there are 27 consonant phonemes, 702 possible CC clusters and 19,656 possible CCC clusters, each in three positions (initial, medial, and final).

2.2. Syllabic Canon and Roots. Given the possibilities of consonant clusters, a one-syllable word has the shape #(s)(C)CV(\*)(C)(C)(C)(S)#. A two-syllable word has the following shape:
#(s)(C)CV(\*)C(C)(C)(C)V(\*)(C)(C)(C)(S)#. Longer-syllable words can be predicted by adding C(C)(C)V(\*)
after one of the optional length phonemes for each additional syllable. Syllables can be divided thus:
...CV(-CV-CV...
...CVCC-CV... or ...CVC-CCV...

There is no clear limit to the number of syllables allowed within a word, however, the longest found so far has nine syllables: /?əl?6liyəmə@amécəlcɛ/ 'I'll dream about you'.

Stress occurs impartially in open (vowel-final) or closed (consonant-final) syllables. And stress can occur on any syllable (first, second, third, etc., even seventh or eighth) counting from the front or from the end. The statements made about stress in the last two sentences apply also to vowel length and vowel phonemes of all qualities. The only qualifications appear to be the following: words with more than two successive long-voweled syllables are quite rare, words with more than two successive high-pitch stressed syll-

ables are quite rare, words with more than three successive mid-pitch stressed syllables are quite rare, and words with more than four successive unstressed syllables are quite rare. Words are most often stressed on the first or second syllable or on the last, second from last or third from last syllable. Long polysyllabic words are always inflected ones; where both root and inflection are polysyllabic there is a tendency for each to retain its own stress pattern (usually the stress pattern it has in combination with monosyllabic root or affix), but more will be said about this in 2.3.

It should also be mentioned that different percentages of root shapes are found if the body of words is limited in different ways, but the relative order of the root shapes stays about the same. Thus a study of reduplicated words and their unreduplicated versions had CVC in 70°/o of the words, CVCVC in 13°/o, CVCV in 10°/o, and CVCC in about 5°/o (other shapes under 2°/o): a study of all the examples of ablaut showed CVC in  $50.6^{\circ}/o$  of the words. CVCVC in  $17.6^{\circ}/o$ . CVCV in  $6.7^{\circ}/o$ . and CVCC in 7.40/o (other shapes under 40/o); a study of all names of flora and fauna showed CVC roots in  $38.6^{\circ}/o$  of the words. CVCVC in 29.0°/o, CVCV in  $8.3^{\circ}/o$ , CVCC in 8.6°/o, and other shapes under 6°/o. I believe the averages of these differences, quoted at the beginning of the last paragraph, are representative of the language. The average for CV might be higher because a number of demonstratives have CV root shapes, and demonstratives were the only word class largely absent from the three sets of words studied.

- 2.3. Vowel, Length, and Stress Alternations.
- 2.510. Introduction. One of the consequences of the development of length in the upriver dialects of Halkomelem is the increase in the number of types of ablaut: This increase is due to the fact that simple vowels can now alternate with long vowels as well as with other simple vowels; long vowels can also alternate with each other. Since ablaut is affected by stress (for example, long vowels cannot appear unstressed) and alternations of stress often serve the same functions as ablaut (for example, aspect and derivation), it seems best to treat ablaut and stress together in this section. Most stress rules precede the ablaut rules;
- 2.3.1. Stress Assignment in Affixing. In the rules to follow, S represents an unstressed syllable, S a mid-stressed syllable, and S a high-stressed syllable.
- .1. Before an unstressed or mid-stressed suffix (-s, -ss, -ss, -s, -s, -s) the stress pattern of the stem (root plus derivational affixes if any) remains unchanged, except in cases of al  $\rightarrow$  fy / \_\_-elp where stress is attracted to the /iy/. Prefixes and infixes, unstressed or mid-stressed, do not alter the stress pattern of the stem.
- .2. Prefixes and infixes when high-stressed attract

the stress of the root (i.e. the root becomes unstressed); however, in a few cases root stress is retained when high stress becomes mid stress on long root vowels. .3.  $\dot{s} \rightarrow s / \underline{-\dot{s}} \dots, -s\dot{s}(s)$ → ś / \_ -ssś .4.  $SS \rightarrow SS / \_ -SS(S)$ . -SSS → SS predominately, with some SS and SS / -S(S) -> SS predominately, with some SS and SS /\_-SS .5.  $ss \rightarrow ss / -s(ss)$ → SS predominately, with some SS / -SS. -SS → sś / \_\_-śś .6. SS  $\rightarrow$  SS / \_\_-S (one example) → SS / -SS, -SSS .7. SSS → SSS predominately, with some SSS / -S → SSS predominately, with some SSS / -SS .8. SSS → SSS predominately, with some SSS / \_\_-S(S) → sss / \_\_\_-ss .9. ŚŚŚ → SŚŚ / \_\_-Ś

- .10. sss → sss / \_\_-ss
- .11. SSSS → SSSS / -SS → ssss / -s
- .12. When suffixes are added after stressed suffixes, they do not modify the preceding stem stress pattern: .13. No examples were found of stressed affixes attached
- to stems of the following shapes: S, SS, SSS, SSS, SSS, SSS. SSS. Cases of unstressed suffixes are attested

after some of these stems (for example, S-S), but, as stated, unstressed suffixes do not alter the stress pattern of the stem. No examples were found of single suffixes of the following shapes: -SSS, -SSS, -SSS, or suffixes of greater than three syllables.

2.3.2. Types of Ablaut, Direction of Change, Conditioning of Change. Given the eleven varieties of root vowels, /i·, i,  $\varepsilon$ ·,  $\varepsilon$ ,  $\varepsilon$ ,  $\varepsilon$ , a, a, u·, u, o·, o/, there are 110 possible varieties of vowel change. So far only 31 types have been attested:

```
i -> i •
               cont.. pl.
                                             ε•-→ a
                                                           cont. deriv.
                                                           deriv.
i \rightarrow \epsilon
               deriv.
                                             € · → a ·
                                                           pl. cont:.
i \rightarrow \epsilon
               cont.. pl.
                                             E . --> 11 ·
                                                           deriv.
i → a
               cont., pl., deriv.
                                             e → i
                                                           cont., deriv.,
                                                           recip. cont.
i →a
               cont., pl.
                                             a → i•
                                                           cont., pl.,
                                                           deriv.
               deriv.
                                                           cont., pl.,
i → a•
                                             a \rightarrow \epsilon
                                                           deriv.
               cont., pl., deriv.
                                                           cont., pl.
i · → ε ·
                                             e → ε⊽
                                                           cont., pl.,
i·-> ə
               deriv.
                                             a -> E.
                                                           deriv.
\varepsilon \rightarrow i
               cont.
                                             ə <del>--></del> a•
                                                           cont., deriv.
\varepsilon \rightarrow \varepsilon
               cont.
                                             a → ε•
                                                           cont.
               cont., pl., deriv.
                                                           deriv.
\varepsilon \rightarrow \vartheta
                                             a --> ə
                                                           deriv.
ε∀-> θ
               deriv.
                                             a → o
               cont. deriv.
                                             a•-> ε
                                                           cont.
\varepsilon \rightarrow a
\varepsilon \rightarrow a^{\bullet}
               cont., deriv.
                                             a•-> ə
                                                           deriv.
ε•→ i•
                cont.
                                             o \rightarrow i
                                                           cont., deriv.
               cont., pl., deriv.
ε•→ ә
```

The direction of ablaut vowel change is from baseform vowel to derived- or inflected-form vowel. In
cases of derivation where only derived forms are attested, it is sometimes difficult to be sure of the base
form. In cases of number and aspect, the singular and
non-continuative largely provide the base forms, since
the plural and continuative forms are the marked forms,
inflected with affixes when they are not formed with
ablaut or stress shifting alone. In many cases, nominalized forms seem to contain a continuative element of
meaning; in these cases the non-continuative verb form
provides the base form.

Ablaut is used to signify 'continuative' (55 examples), 'plural' (12 examples), and, most frequently of all, figures in word derivation (over 148 examples). It is found both within roots and within affixes. It can even co-occur with reduplication or plural infixes within the word. In cases of word derivation it is sometimes conditioned (set in motion) by specific suffixes. It is also sometimes conditioned by stress alternation, and it sometimes causes stress alternation. With this background, some further stress rules can be given with examples, as well as some rules for vowel deletion and length deletion.

# 2.3.3. Stress Alternation, Vowel and Length Deletion, Continuatives.

- 1. sí·le 'grandparent': sísele 'granny'
- 2. spi·w 'ice': spipow 'frozen'
- 3. li·c'et 'cut s-th': slilec'els 'a saw'
- 4. x f:pet 'carve s-th': x fx epels 'a plane'
- 5. ck f ·m 'red': ck wik omel 'near red'
- 6. lé·c'ewtx em 'visit': lélec'ewtx em 'visiting'
- 7. mé·yt 'help s-o': memíyət 'helping s-o'
- 8. té·y 'to canoe-race': tétay 'canoe racing'
- 9. t'&:1 'go out of sight (of the sun or a person, etc.)':
  st'&t'el 'shade (of a tree, etc.)'
- 10. łé·w 'run away': łéłow 'running away'
- 11. ½6.q'ətəs 's-o lays s-th (on s-th)': ½6½.oq'l&m
  'it was laying on s-th'
- 12. xyá·k, wem 'bathe': xyáxyek, wem 'bathing'
- 13. tá·q, wem 'to cough': táteq, wem 'coughing'
- 14. q'á·y 'dead': q'áq'ey 'sick, dying'
- 15. pá·yt 'bend s-th': spápiy 'crooked, bent'
- 16. tá·1 'go down to the river', stá·lo 'river': státelo 'creek'

- 17. tá·leet 'wonder': tatf·leet (//ta·-te-l-f·l-eet//)
  'wondering', tatf·lt 'learn, understand (s-th)',
  tatel(')á·met 'understand(ing)'
- 18. pá·t 'blow': spápetes 'Katz riverbank (placename meaning (wind) blowing on the face (of the bank))'

  2.3:3.2. #SS... → #SS... 'continuative'
- (S is syllable as in 2.3.1). Examples:
- 19. ±ex wetce 'spit': ±ex etce 'spitting'
- 20. k; wexy \( \varepsilon \) count s-th': k; wexy tes 'he's counting s-th'
- 21. c'eté·m 'crawl': c'étem 'crawling'
- 22. h'awals '(dog) barks': h'éwals 'barking'
- 23. c'aλ'ém 'jump': c'έ·λ'em 'jumping'
- 24. ?emét 'sit down': ?á·(?e)met 'sitting down'
- 25. ±slqf 'soak, rehydrate': ±6lqi 'soaking'
- 26. h'aléx "stopped; at home': h'alex "stop(ping)"
- 27.  $\theta^{*} \circ x^{W} at$  'wash s-th',  $\theta^{*} \circ x^{W} a \circ m$  'wash one's face',  $\theta^{*} \circ x^{W} x^{W} \circ 1 \circ m$  'wash one's feet',  $\theta^{*} \circ x^{W} \circ$
- 28. 0q'6t 'spear a fish': 06.q'01 'spearing a fish'
- 29. pté·mət 'ask s-o': pétmət 'asking s-o'
- 30. cà·l $\phi$ x m 'bleed': cá·l( $\phi$ )x m 'bleeding' ( $\phi$ x m')
- 31. líyém 'laugh': lé·yem 'laughing', slíyem 'a laugh'

- but beside this there is also the competing sets, léyem 'laugh' with léyleyem 'laughing', and lfyleyem 'laughing'
- 32. csέθà·m 'you were told' (< //cəs-έt//): cəsətəm 'being told'
- 33. Θίγθὶουτ 'make s-th for s-o': Θέγεὶουτ 'making s-th for s-o'
- 34. x εθτέlem 'get cloudy': sx γέθτει 'clouds'
- 35. sk<sup>w</sup>iy**6**x0ets 'what he did': sk<sup>w</sup>£.yxtem 'doings, things to be doing'
- 36: \(\frac{1}{2}\)etq\(\frac{1}\)etq\(\frac{1}{2}\)etq\(\frac{1}{2}\)etq\(\frac{1}{
- 37. λ'έχ<sup>y</sup>təm 'diarrhea': λ'χ<sup>y</sup>έτəm 'continuing diarrhea'
- 38.  $k^W$ ésuyəl 'throw out a drift net':  $k^W$ sé·yəl 'drift-netting down the river'
- 39. sq<sup>W</sup>élx<sup>y</sup>em 'dry snow that can drift': sq<sup>W</sup>elx<sup>y</sup>éme' 'dry snow drifting in'
- 40. //ta-x&yl 'legs', -wat 'canoe', -tal 'device'//:
  tax=lwattal 'thwarts, crosspieces in a canoe'
- 41. \*\*61x<sup>y</sup>61 'spring salmon (generic)': \*\*\*olx<sup>y</sup>61tel
  'spring salmon net', \*\*\rangle \*\frac{1}{2}'\text{sol} flow 6\frac{1}{2} 'jack spring
  (salmon) with black nose'

- 42. //yem 'wide strip', -ε·wes 'paddle', -tel//: yemɛ́wéstel 'wide cedar root strips for baskets'
- 43. //t'á·1 'shade, disappear behind', -es 'face', -tel//: t'aléstel 'blinds, window shades, blinders'
- 44. Papales 'tenth moon': Papaléstel 'July, tenth moon' (the Upper Stale new year begins in October)
- 45. //-61(a)qs// 'nose, on the nose': sx<sup>W</sup>aq' Walaqstal 'nose-ring'
- 46. t'£lq' warm': t'el£q' tel 'Indian name of Old Jack (lit. 'something that would be warm')'
  - 47. x dlmex 'Indian': x elméx qel 'Indian language', sx elméx el 'in the Indian way'
- 48. sqéyex 'mink (boaster)': sqeyéxəye 'pet name of Mink (little boaster)'
- 49. tome 'red ochre, red paint': temelopsem 'large red-headed woodpecker' (lit. 'red paint on back of head or neck')

$$c_1 v c_2 \rightarrow c_1 c_2 / \#(c-) _- \dot{s}...$$

This rule is sometimes optional in slow speech but approaches the obligatory in more rapid speech. Examples:

- 50. s0'4'm 'bone': s0'miw61 'core, pith, seed, nut, center of rock, etc.'
- 51. c'k' sxy 'number': k' xy & m 'count', k' xy & t
  'count s-th'

- 52. hf·xw 'three': hxwε·le 'three people', hxwε·h 'three times', hxwε·hp 'three trees', hexwelsxyε 'thirty'
- 53. heq'&t ~ hq'&t 'wide', heq'&ces ~ hq'&ces 'five'

  (lit. wide hand'), heq'ecelsx\(^y\) 'fifty':

  hq'&c&le 'five people', hq'&c&&hp 'five trees',

  hq'&c&&wtx\(^w\) 'five houses', hq'&c&&weh 'five cances', hq'&c&&hs 'five fruit, five round things

  (rocks, balls, etc.)', hq'&c&&hwet 'five garments',

  hq'&c&&ws 'five cance paddles', hq'&c&&yiws

  'five pants'
- 54. st'6x 'fork (in a tree, a river, etc.)': t'x6m 'six' and all its derivative or inflected forms
- 55. sk'op 'deep': (s)k'pi'wel 'shirt, bra'
- 56: t'á·q'Wtem 'Saturday': t'q'Wá·t 'cut in half, split (of rope)'
- 57.  $sx^y f \cdot x^y = c$ , 'woods':  $x^y c \cdot f \cdot l = m x^y = c \cdot f \cdot l = m$  'go through the woods'
- 58. c'k' sxy 'twenty': c'ak' xy Ela 'twenty people'
- 59. qW6± 'spill, tip over (of canoe)': qW±6.y 'drift-wood' (lit. tipped over wood and bark)
- 60. 0q'6t 'spear a fish'
- 61. 06x disappear': 0x disappear': 0x disappear's 0
- 62: x ix ec'em 'stinking': x c'i meet 'smell oneself repeatedly stink, bad smell (of spoiled meat)'
- 63. césetem 'being told': cséeàem 'you were told'

- 64. c'f:səm 'grow, grow up': c'sf:mtəs 's-o raised s-o, s-o let s-o grow up'
- 65. Θ'¢x<sup>W</sup> 'wash': Θ'x<sup>W</sup>á·səm ~ Θ'əx<sup>W</sup>á·səm 'wash one's face'
- 66: x61 'hurt, ache': x16m x016m 'tired'
- 68. Hic'et 'cut s-th, cut s-o': lc'élqsel 'cut the tip of the nose', lc'é'y@el 'cut on the mouth'
- 69. c'éq' 'poke': c'q' bp 'spruce tree'
- 70. c'émet 'bite into s-th': c'mx 4. y001 'chin, jaw'
- 71. steqté·1 'door': tqét 'close s-th'

  2.3.3.5. C<sub>1</sub>VC<sub>2</sub> → C<sub>1</sub>C<sub>2</sub> / V(C) \_\_-Ś...

Examples are less common of this rule than of 2.3.3.4.

- 72. sc'èl·èx 'eddy': sc'elx Eyeq (& ~ f) 'Chilliwack'
- 73. sáx vol 'grass': səsx véyəl 'short grass'
- 74. skwetéxw'inside': kwetxwf.lem 'come inside', skwetxwé.weł t'á.mél 'carved post inside longhouse'
- 75. xyelá·k³w 'be round', xyelák³wtłɛ 'roll s-th up': xyelk³wá·ls 'round (fruit)'

- 76. lowf0's 'naked' (< l-owe 'no', -f0'e 'clothes'):
  low0'ém 'to undress'
- 77. cá·k<sup>w</sup> 'far away, distant': cack<sup>w</sup>á·les 'goatsbeard plant (Aruncus sylvester)'

$$c_1 v c_2 \rightarrow c_1 c_2 / s - s ...$$

This rule applies after high-stressed prefixes, of which the most common are diminutive reduplication  $R_{ij}$ -and continuative prefix  $h\epsilon$ -  $h\epsilon$ - (see 2.3.3.7 for more examples than are given here). Examples:

- 78. 0 agé t 'tree': 0f · 0q at 'little tree'
- 79. h'ecés 'island': h'fh'ces 'little island'
- 80. sk'fleqem 'Slalakum, supernatural creature':
  sk'f.k'leqem 'little Slalakum'
- 81. x yíx x welk we 'fish air bladder'
- 82. xá·cɛ 'lake': xáxcɛ 'pond, small lake'
- 83. p'ép'x wam 'quiet, shy'
- 84. léc'e 'one': lálc'e lálec'e 'one person'
- 85. k' \*\* exy \* t' count s-th': 't' \* k' \* t' \* t' \* t' \* s counting something'
- 86. //xw-'come', ?f. 'here', -l 'on purpose', -exw
  '3rd person object', -es '3rd person subject'//:
  xw-?f.lxw-s 's-o brought s-th'
- 87. lexéywe 'spear fish by torchlight': hélxeywe 'spearing fish by torchlight'
- 88. w6q, downstream'; h6wq, downstream'; h6wq, downstream'

- 2.3:3.7. hf- 'continuative; plural' has predictable allomorphy before a limited set of roots.
- hé- → hé- / \_\_y, l in certain roots
  - → h6-/\_\_m, w in certain roots:

This morpheme cannot be used with most roots to express 'continuative' as can reduplication -R<sub>1</sub>- (see examples like yiyeq 'snowing', l£lec'èwtx<sup>W</sup>em 'visiting', memfyet 'helping s-o' and wiweqes 'yawning'). {h£-}, like the stress-shifting rules also used for 'continuative; plural' (2.3.3.2 and 2.3.3.3), can only be used with certain roots. {h£-} is limited to the examples shown here, so far elicited.

- 89. yéq 'burn': héyq héyeq 'burning, fire'
- 90. yé·t 'to vomit': héyet 'vomiting', héyetélmél 'nauseated'
- 91. y60t 'talk about s-o': h&(.)y0t 'talking about s-o'
- 92. yé0est 'tell it': hé(·)y0est 'telling it'
- 93. lép'exy 'eat': hélp'exy 'eating'
- 87 as above
- 94: léc'e 'one', lálec'e 'one person; alone': helc'elí(y) 'by themselves'
- 95. méq'et 'to swallow': hémq'et 'swallowing'
- 96. wec'ék' 'fall, drop (intransitive)': héwc'ek'
  'falling'
  - 88. as above

- 92a. yá·t 'warn s-o': hé·yá·t 'warning s-o'
- 92b. yég'es 'file (abbrasively)': héyg'es 'filing'
- 92c. yá0et 'back up': héy0et 'backing up'
- 94a. léqem 'dive': hélqem 'diving'
- 94b. 16kW 'broken (of bone or stick)': hélkW 'pocket knife; being broken'
- 94c. lextywe 'to torchlight, spear fish from cance by torchlight, lantern or firelight, pitlamp for fish': hélxeywe 'torchlighting, spearing fish by torchlight, etc.'
- 95a. méx<sup>y</sup> 'take it off': héməx<sup>y</sup> 'taking it off (a button for example)'
- 96a. we0'ft 'tease s-c': hew0'ft 'teasing s-c'
- 96b. wec'& 'get to the summit of a mountain':

  hewc'& 'getting to the summit of a mountain'
- 96c. woq' \* £yləm 'drift downstream': héwq' \* elem 'drifting downstream'

2.3.3.8.  $C_1 \in yC_3 + R_1 \implies C_1 \in yC_1 \circ C_3$  where  $C_1$  is always post-velar. Examples:

97. q'éysət 'tie s-th': q'éyq'əsət 'tying s-th'

98. q'éyq'xèt 'he was contradicting s-o', q'eyq'xátel
'they were contradicting each other'

99. xweyleqw or xwevleqw 'bird' (Chehalis dialect):
xweyleqw 'small bird' (Chehalis dialect)

100. xéyp'et 'scratch s-o or s-th': xéyxep'f'lep 'rake' (lit. 'scratching the ground')

101. q'éyq'əlstəlèq 'deceive'

102. xéymet 'grab s-th or s-o': xéyxemels 'burdock'

103. q'éyxəl 'get black': q'éyq'əxəl 'getting black'

104; q'eyq'elc'iyásem spehé(·)ls 'whirlwind'

105. x£yxoc'om 'itching', xEyxoc'om0ot 'real itching'
(Tait dialect)

2.3:3:9. (-áme) 'you singular object of verb' and (-ále) 'you plural object of verb' have similar stress shifts in the same environment: before {-cel} 'I subject' and before {-cet} 'we subject'. Thus,

 $\{-\text{áme}\} \rightarrow -\text{amb} / \_-\text{cel}, -\text{cet}$ 

 $\{-\text{\'ale}\} \rightarrow -\text{al\'e} / \_-\text{cel}, -\text{cet}.$ 

Examples will be found plentifully in the chapter on pronouns (k' wclamécel 'I see you (sg.)', etc.).

2.3.3.10. {-əm} 'passive' → -əm in the environment before {-ət} 'negative or impossibility marker on passive'. Examples:

? owste sk fyextement 'nothing could be done',
? owste k s k w otex w emet 'nobody was inside',
sk w ey k w es m eytemet 'he/she/it/they (3rd person)
can't be helped', sk w ey k w es k w elemet 'he, etc.
can't be seen', sk w ey k w e g w elstemet 'he, etc.
can't be spoken to'. Wore examples can be found in
the chapter on pronouns.

2.3.3.11. Sporadically stress is shifted onto the syllable before a subject or possessive pronoun. This seems more common before {-cet} 'we, our' than before other pronouns. I have not been able to find a way to predict when it will take place. Some examples are: sqwellawflect 'our thought, we think', %ctfolstex cet 'we feed him', to lfilement 'our house', t'f.lément 'I sing', t'f.lément 'you sing', t'f.lément 'we sing', t'f.lément 'you (pl.) sing', t'f.lémet 'sing!'. It could be that sociolinguistic factors or features of emphasis or citation are involved here.

2.3.3.12. e (within  $R_1$ )  $\rightarrow$  i / \_\_y

This rule may be related to rule 2.4.1, q.v. Examples:
t' $\xi(\cdot)$ yeq' 'angry (once)': t' $\xi$ t'iyeq' 'angry (continuous)'

mé·yt - méyt 'help s-o': memíyet 'helping s-o'
líyém 'laugh': líliyem 'laughing'
pá·yt 'bend s-th': spápiy 'bent, crooked'
0'iykwá(·)stel 'wink': 0'i0'iykwástel 'winking',

 $\theta$ 'igk<sup>w</sup>as $\theta$ áx<sup>y</sup> $\theta$ s 'he's winking at me' 2.3.3.13.  $\theta$  (within  $R_1$ )  $\Rightarrow$  0 / \_\_w

Examples:

spf·w 'ice': spfpow 'frozen'
cé·cow 'beach, shore'
slflowys 'seagull' (Chehalis dialect)

téwel 'become light': stétow 'light, illumination'

łé·w 'run away': łéłow 'running away'

2.3.4. Ablaut. This section will begin with examples of each type of ablaut and will conclude with the analysis and discussion. As in the previous section, examples to the left of a colon show the base form or base vowel, and examples to the right of the colon show the results of the rule, the ablaut vowel. All examples are in phonemic transcription unless hyphenated (morphophonemic) to show affixation or enclosed in double slashes (morphophonemic) or unless enclosed in violin brackets, { }, to show morphemes. i \Rightarrow i. \frac{1}{2} \text{mex}^{\mathbf{Y}} '\text{walk'}\frac{1}{2}: \text{?f·mex}^{\mathbf{Y}} '\text{walking'} \text{siyálex}^{\mathbf{W}\_0} '\text{old people'}

rmex 'wark': 'rmex' warking'
siyálex<sup>w</sup>e 'old person': siyálex<sup>w</sup>e 'old people'
sciwté± 'son- or daughter-in-law': sci.weté±
'children-in-law'

siyé·m 'person of high rank, chief': sí·yé·m 'high people, chiefs'

% of the sleep, go to sleep': % of the sleeping, as leep' i  $\rightarrow$  \$

p'f0'et 'squeeze s-th': p'60'et 'sew s-th', p'60'tel

yíq 'to fall (of snow)': q'elsiyéqem 'snowdrift'

<sup>1.</sup> A gloss like 'walk' is ambiguous in English; the word could be a noun or a verb. When the Halkomelem form is a verb the gloss will be given as 'walk' or 'to walk', although a verb with 5rd person subject is usually implied. When the Halkomelem form is a noun the gloss will be given as 'a walk'.

```
i ---> = •
Ofyt 'make s-th': Of yt 'making s-th'
Aivátcet 'make s-th for s-o': 06.yetcet 'making s-th
     for s-o'
sk, wfto 'in-law (parent-, child-, sibling-)':
     oky Webbo w sky Webbbo 'in-laws'
livom 'laugh': livom 'laughing' (note alternates
     levém - léyem 'laugh' and líleyem - léyleyem
     'laughing')
sk wiy sxeets 'what he did', sk wiyextem 'to be done':
     skWf.vxtem 'doings, things to be doing'
i → ə
a, wayflexy 'dance': a, wayfl. axy 'dancing'
sq wiq we emey 'puppy': sq wiq we emey 'puppies'
sig, wen 'peel cedar bark': seg, weni ws 'cedar bark
     skirt!
mi ~ ?emi 'come': méstex" 'bring s-th, give me s-th'
     (< mf + -sT 'causative' + -axW '3rd person obj.')
yfo 'to fall (of snow)'; yeqelsxy'é.y 'first snow'
lilest 'bail it (water)': léltel 'a bailer'
?ixWet 'sweep s-th': ?6xWtel 'broom'
xWixWivém 'telling stories': sxWexWivém 'story'
Oiyod * é · ls 'dig' (Oiy 'make', q * é · 'hole', - é · ls
      'intransitive'): @avegwels 'digging'
p'f0'et 'squeeze s-th': p'á0'es 'basketry cradle.
```

baby basket' (< p'f0' + -es 'face') swiweles 'adolescent boy (10-15 yrs.)': swaweles 'adolescent boys (10-15 yrs.)' · → ε· cy wantick 'narent's sibling': sx wante-lak 'parent's siblings' c'i'·xWtəs 's-o dries s-th': c'é·xWtəs 's-o is drying s-th' or. c'f.yx tes 's-o dries s-th': c'f.yx tes 's-o is drying s-th' lic'et 'cut s-th': léc'tel 'knife', lèc'telélé 'kmife-handle'

#### i• → ə

- sci. first born', cicel 'above, high': scelá.yeel 'upper lip'
- }eqli.sem 'to button', lut steqli.s 'it's buttoned': legléstel 'a button'
- lik" hook, catch on hook': lok"tel 'fish hook', ±6k<sup>W</sup>x<sup>y</sup>el 'to trip' (hook the foot)
- self.c' ~ selfc' 'full': lec'et 'fill s-th up'. le léc' 'it's filled'
- sxyf.xyec, 'woods': xyec,f.lem 'go through the woods'
- li.x three': lox elsx thirty', lox elsx á.s 'thirty days'
- ryf.pet 'peel bark or root of tree': xyepá.lst 'peel fruit, vegetable or vegetable root' (-á·ls 'fruit')

Afec'et 'cut s-th': lec'ces 'cut one's hand' ε -> i• ?fltel 'eat a meal': ?f.tel 'eating a meal' lflam 'house': lf.lam 'little house, cabin' ε → θ słéliv - słélív 'woman, female': słoliyá·lł 'girl child, young female! h'eléx" 'stopped: at home, (stop, action completed)': \*'flax 'stop. (stopping, action not completed)' c'éx welle 'shut up!': sk' v k' es c'ex welá veels 'he can't shut up' (he or any third person) sk, wec 'evesight', k, wecet 'look at s-th': k, weclex 'see s-o or s-th'. sk' eca stel 'window, mirror' (lit. 'device to look at or see a face'), k, Wacewiecam 'look back' q'éq'et'em 'sweet flavor': q'et'emé yetp 'balsam tree' (lit. 'sweet bark tree' because of sweet sap) mége 'fallen snow': magá's 'fallen snow season, moon of fallen snow. December' xeq'&t 'a bluff (cliff)': sxeq'xeq'et 'a little bluff' h'acés 'big island': h'ik'ces 'small island' csέθà·m 'you were told': césetem 'being told' possibly suffixes like: -ét - -et '3rd person object'. -£le ~ -ele 'people', -léc ~ -lec 'rump', bottom', -10'è - -10'e 'clothing', -ép - -ep 'ground, dirt' (see 2.3.6. for alternative explanation).

g'évset 'tie s-th', g'éyg'eset 'tying s-th', sxwq'&yq'esecel 'netting shuttle (for making nets)': q'ésq'es(e)cel 'spider' ('the tier, net-maker'). q'esf'ltel or q'esfyeltel '(woven) tumpline' sxévxe - sxé xe 'sacred'. sxexesyúwes 'bluejay, the sacred fortune-teller': sxexelft 'Sunday' xéyp'et 'scratch s-o or s-th': sxep'f'cel 'chipmunk' (lit: 'striped back'). sxixep' 'stripes, marked line' (belongs here if  $R_{\mu}$ - 'diminutive' is here) xε(·)ylt 'write s-th', sxε·yltəls 'footprints, tracks', xevlxéliyá·sem 'it is written (in the sky)': xéltel 'writing instrument, pencil, pen', sxelé·ls 'writing' ε → a g'éyg'xèt 'he was contradicting s-o': g'eyg'xátel 'they were contradicting each other' qWfyel 'gone yellow': qWfqWfyel 'getting yellow', qWiqWayels 'orange, orange (the fruit)' t'épi0ət 'it's dead (of a tree)', st'épi 0əqé·t 'dead and broken tree': t'api0et 'it's going dead (of a tree)'

yéyetel 'made friends', siyéye 'friend': yáyetel

χέλ' 'rough, turbulent (of wind or water)': χάλ'θət

ε√ → θ

'making friends'

'windy'

```
ء ۾ جب ء
xévh' 'be cold', xeyh'él0 'grizzly bear'; sxá'h'0et
     'brave, cranky, aggressive, ready to fight'
k, wecet 'look at s-th': k, we'k, wecet ~ k, we'k, wenat
     'looking at s-th' (2.3.3.1 optional here)
sweqe0 'husband': swa·weqe0 - swaweqe0 'married woman
     ('having a husband')' (2.3.3.1 optional)
xwé·lé·lp 'willow (tree or bush)': xwá·xwlé·lp 'a
     small or lone willow tree: Yale'
e. --> i.
k^{W} \mathcal{E} \cdot l 'hide oneself': k^{W} \ni k^{W} \hat{I} \cdot l 'hiding' (with R_{g}-)
ε· -> =
Oiyod we'ls 'dig': Oayod wols 'digging'
c'stéem 'crawl': c'étem 'crawling'
06.t 'darkness': 0etf.l 'go dark, be dark'
16.c' 'be different': lec'6.mex different people'.
     selflec' 'two different things'
eagé.t 'tree': 01.0qat 'little tree', 0aq06qat 'for-
     est, thicket'
k'ε'qt 'long, be long': k'eqtá·meθ' 'tall (of people)'
±eq'é·ces 'five': ±eq'eclé·± ~ ±eq'éces'é·± 'five
     times', ±òq'əcəlsx<sup>y</sup>& 'fifty', ±əq'əcəlsx<sup>y</sup>á·s
      'fifty days'
tegé·ce 'eight': tègecelsxyé 'eighty'
gé·l 'steal': gélgel 'thief'
qWe-1 'talk': sqWelqWel 'talking (noun)', qWelá.yeetel
```

'musical instrument' (lit: 'talking lips device'), qwelqwelf.yeel 'talks too much, gabby, gossipy' (lit: 'repeatedly talking lips or jaw'), qwelseam 'you are talked to', qwelstexwes's-o spoke to s-o', qwelayef.lem '(birds, etc.) making music, moon of March'

- $q^{W}\pm \ell \cdot y$  (< // $q^{W}$ 0\pm -\epsilon \cdot y//) 'driftwood';  $q^{W}$ 6\q^{W}0\pm iy (< // $q^{W}$ 6\pm -R\_1-\epsilon y//) 'lots of little pieces of driftwood'
- pt&.met 'ask s-o', pipt&.met 'asking s-o': sp&t.em
  'asking (noun)', also a competing form p&tmet
  'asking s-o'

### ε· -> a

- qW&:1 'talk': qWaqWel 'talking', qWaqWels@a.m 'you are being talked to'
- xé·m or xè·m 'cry, weep': ҳamá·θ'iyɛ 'name of youngest sister of Mt. Cheam ("cries because she can't see the Fraser River so lots of creeks run together there")'
- $k^W \acute{\epsilon} \cdot t$  'let s-o or s-th go',  $k^W \acute{\epsilon} \cdot \theta \acute{a} x^V \circ s$  's-o let me go' shows root  $k^W \acute{\epsilon} \cdot + -T$  'ord person object':  $k^W \acute{a} 1 \circ x^W \circ s$  's-o dropped s-th'

#### ε• → a

- xé·m or xè·m 'cry, weep', xehé·mət 'cried for it': xəhá·məθət 'cry for oneself'
- h'é et 'long, be long': xWh'á etes 'long face, morose'

```
?isé·le 'two': ?isá·les 'two dollars'
teg'é ces 'five': teg'é ces 'five dollars'
tegé·cs 'eight': t(e)gá·cá·s 'eight dollars'
e• → 11•
qwall 'talk': qwalawal ~ qwalqwaltal 'talking
     together, all talking'
16.w 'run away': 14.wmet 'run away from s-o'
ə → i
sq'ép 'a gathering': sq'eq'ip 'gathered'
qWaqwalec 'to gossip': qWiqwalec 'two of them gossip-
     ing, gossiping together
tés 'get up to, come near': stetís 'near s-th, be near',
     ctatichár<sup>y</sup> 'near me'
sélsel - sélseltel 'wool spindle, spinner': sílceptel
     'firedrill' (-cep 'firewood')
a -> i•
?awá·lem 'play': ?i·wálem ~ ?i·wá·lem 'playing'
? fxy al 'to paddle': ?f.xy al 'paddling'
e'ép'ayeq" 'great great grandparent or -child':
     6'elf.p'ayeqw - 6'e6'f.p'ayeqw 'great great grand-
     parents or -children'
?&.xWestes 's-o is giving gifts to s-o': ?&.xWi.tel
      'they're sharing' (-tel 'reciprocal')
 θ \Rightarrow ε
p'&kW 'float, come to the surface': p'sp'&kW 'floating'
θέα'em 'drip': θέα'em 'dripping'
```

- h'ewels 'bark (of dog)': h'éwels 'barking' (beside these are alternative forms, h'éwels 'bark' and h'éwh'ewels 'barking' with iterative reduplication)
- k'\*ex''ét 'count s-th', k'\*x''É' n 'count', c'k'\*éx''
  'number': k'\*éx''tes 's-o is counting s-th'
  k\*eléx''t 'shoot s-th': sɛk\*elɛx'' 'gun, arrow'
- Obgelem 'to wait for fish with a dip net': Oqélem 'a waiting dip net', soqélem 'place where one waits with dip net for fish'
- q'élexeà·m 'you are not known or recognized': q'élx 'unfamiliar'
- cólq 'fall': célq 'falling'
- xét'e 'said to s-o': xet'éstex es 'they told him, s-o told s-o'
- $\lambda$ 'élx'el 'spring salmon (generic)':  $\lambda$ 'elx'élówéł
  'jack spring salmon (small adult) with black nose'  $\theta \implies \epsilon y$
- q'emás 'to dip-net': q'éyq'emas 'dip-netting'
  sxéle 'leg, foot': sxexéyle 'legs', lexéyléxy' 'stand
  up'
- qep'á·s 'face down': qeyqep'eyá·le 'lay on one's stomach'
- a → ε•
- sélk'a 'older, oldest (of children)', sék'ètel 'older

- sibling': sé·k'ètel 'older siblings, older cou-
- c'ek'ém c'fk'em 'jump': c'f'k'em 'jumping', c'fc'ek'-f'm 'jumping up and down, jumping along, jumping
  repeatedly'
- $x^{W}$ ám $x^{Y}$ ələm 'run, race':  $x^{W}$ əm $x^{Y}$ £·ləm 'running, racing'
- Θq'6t 'spear a fish': Θέ·q'el 'spearing (a fish)'
- q'élmet 'believe s-o': q'é·l 'believing'
- $q^{W}$  fls ~  $q^{W}$  fls 'boil, cook':  $\pm \Rightarrow tq^{W}$  f·ls 'to boil'
- e → a•
- héq wlex smell (with nose): há · q wlex smelling, há · q wet 'smell s-th purposely'
- q<sup>W</sup>śls 'boil', ±etq<sup>W</sup>é·ls 'boil': sq<sup>W</sup>á·ls 'pot', q<sup>W</sup>á·ls (in one citation) 'boiling', ±á·tq<sup>W</sup>em 'is boiling, being boiled'
- pek, wem 'be dusty': sp'á·lk, wem 'dust'
- p'6q' 'white, be white', p'eq'6lqel 'mountain goat'
   (probably 'white nose'): sp'á'q'es 'bald eagle'
   ('white face')
- ?əmət 'sit down': 'a'mət ~ 'a'pmət 'sitting down'
- xya.k, we hathe', xya.xyek, we hathing': xya.xyek, wa.m' 'swimming' (xya. is diminutive reduplication R.-)
- \*!yes 'amusement, having fun' (< 'Ey 'good', -es 'face'):

  \*'iyá·seet 'a whole bunch having fun'

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so wellx on 'dry snow that can drift' (cp. also so wetx) em
     'fog'): sqwelxya.me 'dry snow drifting in or
     coming in'
mégsəl 'nose'. Ec'élosəl 'cut tip of one's nose':
     smétá osel 'snot', sład "Oá osel má o" 'wild turkey
     (lit. 'snot-hanging-down-nose bird')
sélsel(tel) 'spindle for wool': sá les 'get drunk.
     get dizzy' (lit. 'spinning face')
xyalek, the 'roll s-th up!', xyalk, als 'round (of
     fruit, etc:)': xyala'k' 'he round'
t'éles0ax t'sit beside me!': st'elé stel 'sitting
     side by side!
xWém 'hurry': xWá·mxyelem 'run' (lit. 'hurry foot')
k, wsces 'burned hand', k, wss- 'scald, burn':
     ryWs.kyWag !hot!
a → ε•
```

?áxwestes 's-o gives s-o a gift': ?&·xwestes 's-o is
giving gifts to s-o', ?&·xwi·tel 'they're sharing'

a → o

xwaq, wet 'pole a canoe', xwaxweq, wet 'poling a canoe':

xxwoq, wtel 'a canoe pole'

a· → ε

s?á·we 'be in a hurry': s?áwe 'hurrying'

a· → e

má·qW 'bird': mí(·)məqW 'little bird'

- x<sup>y</sup>á·k<sup>,w</sup>em 'bathe': x<sup>y</sup>íx<sup>y</sup>ek<sup>,w</sup>am ~ x<sup>y</sup>ix<sup>y</sup>k<sup>,w</sup>á·m 'swimming' s0'á·m 'bone': s0'emf(')wel 'core, pith, seed, nut, center (of rock or anything)' (lit. 'bone inside'), s0'emelé·xel 'elbow' (lit. 'arm bone'), 0'emf·wécx<sup>y</sup>el 'lower leg' (lit. 'bone in (back?) of leg')
- $\mathbf{q}^{W}$ á·m 'moss':  $\mathbf{q}^{W}$ əmcá·ls 'cranberry', má· $\mathbf{q}^{W}$ əm 'swamp, marsh; Indian tea plant'
- ?á·pəl 'ten': ?əpé·lə 'ten people', ?əpá·ləs 'ten
  dollars', ?əpá·ləstəl 'tenth moon, July'
- $\theta \cdot \acute{a} \cdot k^W s$  'seven':  $\theta \cdot \grave{a} k^W s = 1 s x^{y} \mathcal{E} \sim \theta \cdot \grave{a} k^W s = c = 1 s x^{y} \mathcal{E}$  'seventy',  $\theta \cdot \grave{a} k^W s = 1 s x^{y} \mathcal{E} \cdot s$  'seventy days',  $\theta \cdot \grave{a} k^W s \mathcal{E} \cdot 1 e$  'seven people',  $\theta \cdot \grave{a} k^W s \mathcal{E} \cdot 1 \cdot s$  'seven times'
- xə?á·θəl 'four': xəθəlsx<sup>y</sup>ε 'forty'
- $x^{w} \text{á·m} x^{y} \text{elem 'run': } x^{w} \text{em} x^{y} \text{é·lem 'running'}$
- qá· 'water', qá·qa ~ qáqa 'drink', qaqá· 'high water',
   qá·lcs 'juicy': sqa²á·ls 'juicy fruit', qa²á·ləs
   'tear (lit. eye water)', qemá· 'suckle; breast;
   milk'
- stá·lo(w) or stá·lew 'river', tá·l 'go down to the river', státelo(w) or státelew 'creek, stream': teltelewé·m 'lots of little streams (like on a hill after a rain)', teltí·t or teltíyt 'upriver dialect, (specifically) Tait dialect'
- sá·xwel 'tall grass, hay': sexweyel 'short grass' t'á·k'w 'home, go home': t'ék'wstexwes 'they took him

- home, s-o takes s-o home
- yá·k, wat 'break s-th, crumple s-th': yék, wlex 'broke s-th by accident:
- $\theta$ 'ex\*\* as wash one's face':  $\theta$ 'óx\*\* as washing one's face',  $sx^W\theta$ 'óx\*\* as wash basin, s-th to wash one's face in'
- $sq^{W}\text{\'a}\cdot\text{me}\text{''lump':}\quad q^{W}\text{\'emx}^{W}\text{ces'lump on hand, lump of wrist'},$   $q^{W}\text{\'emx}^{W}x^{y}\text{el'lump of ankle'},\ q^{W}\text{\'em}x^{W}\text{ces'all the}$  knuckles and joints on the hand' (Chehalis dialect)
- sá·les 'get drunk, get dizzy': sélés 'getting drunk, getting dizzy'
- tá·leat 'wonder', tatí·leat 'wondering', tatí·lt
  'learn, understand', tatelá·met 'understand':
  telá·met 'understand', tél·ex es 'he understands
  it, he finds it out'
- possibly suffixes like: -á·s ~ -əs 'face', -á·s ~ -əs 'moon, cyclic period', -á·yθəl ~ -əyθəl 'lip, jaw', -á·məθ' ~ -əməθ' 'height', -á·ll ~ -əl 'young', -lá·mət ~ -ləmət 'oneself (reflexive)', and -á·məxy ~ -əməxy 'appearance, -looking'
- o → i
- mók' ~ mók' 'all, everything, everybody', mok' 'wátt
   'take it all': semík' 'all of them (of people)'

  x 'wox 'wiyém 'tell some stories': x 'wix 'wiyém 'telling
   stories'

The examples above are all the examples found of ablaut to date. A number of approaches were tried searching for a phonological, morphological, or semantic way to predict ablaut without listing roots.

(Let us call a stem by the vowel which will change with ablaut: 0fy-t 'make s-th' would be an "i-stem"; and let us call varieties of ablaut by the resulting vowel, shown after a capital A: thus "Aé·" can be read as "é· ablaut". 0fy-t for example is an i-stem with 'continuative' Aé·; another way of putting it is, efy-t has i \rightarrow é·; thus 0fy-t becomes 0é·y-t 'making s-th'.)

One can see the influence of phonological rules given in preceding sections (particularly that of stress rules upon  $\varepsilon \to e$ ,  $\varepsilon \cdot \to e$ ,  $e \to \varepsilon$ ,  $e \to \varepsilon \cdot$ ). But given the stress pattern and phonological descriptions of roots, one still cannot predict more than a few cases of ablaut. Even roots which have quite similar shapes can take different ablauts. For example, among i-stems:  $\theta fy-t$  'make s-th',  $\theta iy-\theta ic-t$  'make s-th for s-o', and  $\theta iye-q^w \ell \cdot -(e)$ ls 'dig' (lit. 'make a hole' since  $q^w \ell \cdot$  means 'get a hole, be a hole') become  $\theta \ell \cdot y-t$  'making s-th',  $\theta \ell \cdot y-\theta ic-t$  'making s-th for s-o', and  $\theta iye-q^w e-1s$  'digging'; also compare  $p^i f\theta^i-et$  'squeeze s-th',  $p^i \ell\theta^i-et$  'squeeze s-th',  $p^i \ell\theta^i-et$  'squeezes the face'), all

from the same root.

Among &-stems we have 10-x&y1-oxy 'stand', x&y1-t 'write s-th', x&x' 'turbulent (of wind or water)', x&y\* 'be cold', compared with 10-x&y1-oxy 'standing', s-x&1-tol 'a writing instrument', x&x'-0ot 'windy', and s-x&y\*-0ot 'cranky, aggressive, brave', respectively.

Among  $\varepsilon$ -stems there are  $\star$ ' $\varepsilon$ -qt 'long' and  $q^W \varepsilon$ -1 'talk, speak' which compare with  $\star$ 'eqt- $\dot{\alpha}$ -mee' 'tall',  $x^W-\dot{\alpha}$ ' $\dot{\alpha}$ -qt-es 'long face; morose',  $q^W \dot{\alpha}$ -st-ex' 'speak to s-o',  $q^W \dot{\alpha} q^W$ -1-st-ex' 'speaking to s-o' (- $q^W$ - is infixed reduplication), and  $q^W \dot{\alpha}$ -1- $q^W$ -1 'talking together, all talking' ( $\dot{\alpha}$ ', final - $q^W$ -1 is suffixed reduplication).

Among e-stems contrast 'ewá·l-em 'play', 'emét 'sit down, sit up', q'élex-t 'not know s-o, not recognize s-o', q'él-m-et 'believe s-o', q'em-á(·)s 'to dip-net', kwel-ét 'hold s-th (in one's hands)', qwéls 'to boil' with 'f·wá·l-em 'playing', 'A·met - 'A'emet 'sitting down, sitting up', q'élx 'unfamiliar', q'é·l 'believing', q'éyq'em-à(·)s 'dip-netting', kwé·lé·m 'hold or contain s-th' (relevant only if < kwel- 'hold in hand' + -é·m or if < kwel- 'hold' + -é·lé 'container', but not if < kw- (stem formative) + -é·lé 'container'), and qwé·ls 'boiling'. This last set shows similar members of pairs of roots taking Af· and

Aá·, Aé and Aé·, and Aéy, Aé· and Aá·; all but one example had the same ablaut function, 'continuative'. These sets dispose of the notion that, given the stem vowel which ablauts and given its adjacent consonants, one can predict the type of ablaut a stem may take.

Rules like i 
$$\rightarrow$$
 i·/  $c_a$ \_\_\_ $c_b$   
 $\rightarrow$   $\epsilon$  /  $c_d$ \_\_\_ $c_e$   
 $\rightarrow$   $\epsilon$ ·/  $c_c$ \_\_ $c_f$   
 $\rightarrow$   $\epsilon$  /  $c_g$ \_\_ $c_h$ 

etc. cannot be written for these ablaut types. Neither can rules dependant only on the consonantal environment, like  $V \rightarrow i \cdot / C_n C_h$ 

ment, like 
$$V \rightarrow i \cdot ' c_a - c_b$$
  
 $\rightarrow \epsilon / c_c - c_d$   
 $\rightarrow e / c_g - c_h$ 

etc., as will be seen in the next paragraphs:

Another method of phonological prediction tried began with arranging all the examples by ablaut type (regardless of stem vowel). Thus all examples of Afwere compared with each other, then all examples of Af, Aé, Aéy, Aé, Ae, Aá, Aá, Aí, and A6. This did not reveal complete predictability of ablaut types, but it did reveal some things about ablaut types. The first thing noticed was that all types of ablaut, except Ae, appear to either attract high stress to the changed vowel or to retain the high stress of the original vowel or to occur in conjunction with a rule which

shifts high stress onto the position of the ablaut vowel (as often does 2.3.3.2). All resulting ablaut vowels are thus stressed except //e//. From now on, stress will not be written on ablaut types. With Ae, 19 out of about 100 exemples had a stressed 6, but 15 of these were monosyllabic roots with suffixes which are stress-repellant (never found with stress). The remaining four cases cannot be surely explained as yet: q'weyfl-ex' to dance': q'weyfl-ex' dancing'; leqlf's-em 'to button': leqlés-tel 'a button'; sq'wfq'wesy 'puppy': sq'weq'wesy 'puppies'; sá'l-es 'get drunk, get dizzy': sél-és 'getting drunk, getting dizzy'.

The second thing noticed from arrangement by ablaut types was that one cannot predict ablaut type just from the consonantal environment. There are many consonantal environments which enclose a variety of ablaut types. For example, ? m has Ai and Aa .

<sup>2.</sup> sq<sup>W</sup>fq<sup>W</sup>=msy comes from s- 'nominal', C<sub>1</sub>f-'diminutive' reduplication, -q<sup>W</sup>=msy 'dog', and q'<sup>W</sup>=yf1-ex<sup>Y</sup> may come from q'<sup>W</sup>syx 'to shake', -f·1 'go, come', -ex<sup>Y</sup> 'standing'. It is possible that these stressed affixes must retain stress even if ablauted. The case of s61-6s may be a simple mistranscription for sel-6s (though the stressed version of -es 'face' is usually -á·s)(root sá·1 is itself derivationally ablauted from sel 'to spin').

kw\_\_\_1 has Ai·, Aɛ·, and Aa, qw\_\_\_qw has Ai, Aə, and Aa, p'\_\_\_e' has Aɛ and Aɛ·, e\_\_\_q' has Aɛ and Aɛ·, q\_\_\_1 has Aɛ and Aɛ·, q'\_\_\_q' has Aɛy and Aə, \(\frac{1}{2}\)\_c' has Aɛ· and Aə, qw\_\_\_1 has Aɛ·, Aə, Aa·, and Au·, 1\_\_\_s, \(\frac{1}{2}\)\_qt, q'\_\_c, and q\_\_c each have Aə and Aa·, and sw\_\_\_w has Aa and Aa·. Prediction is still impossible if we consider adjacent syllables in the search for environmental patterns.

The third thing noticed from arrangement by ablaut types is the relative frequency of each ablaut type.

50 percent of the over 200 examples are Ae, about 15 percent are Aa, about ten percent are Ae, from seven to five percent are Ae, Aa, and Ai, and less than four percent are Ai, Aey, Au, and Ao. In suffixes true ablaut is not common, but wherever there is allomorphy involving vowels, schwa is one of the vowels and a stressed vowel (not a schwa) is usually the other.

The only way in which some predictability of ablaut type is achieved is by considering the stem vowel and the ablaut function. No predictability is achieved from considering ablaut function alone because 'continuative' is signified by all ablaut types but Ao, 'plural' by all but Ai, Aa·, Au·, and Ao, and derivation by all but Asy; these gaps are only in the least common ablaut types and most likely are accidental.

Some predictabilty of ablaut type can be achieved by looking at the stem vowel which gets changed. The following ablaut types are attested with the following stem vowel types:

Unfortunately there doesn't seem to be any systematic patterning at work behind the above sets. Some ablaut types however are limited to specific functions:

. . . . .

derivation	continuative	<u>plural</u>
i→ε,θ,a•	i→ i·,ε·,ə,a	i⇒i·,ε·,θ,a
$i \cdot \rightarrow \epsilon \cdot , \theta$	i·→ε·	i•→ε•
ε <del>→</del> ∍,a,a·	ε→ i·,e,a,a·	ε→ θ
εу→ ә		
ε·→ θ,a,a·,u·	ε·→ i·,θ,a,u·	$\epsilon \cdot \longrightarrow \theta$
$\theta \rightarrow i, i \cdot, \varepsilon, \varepsilon \cdot, a \cdot \theta \rightarrow i, i \cdot, \varepsilon, \varepsilon y, \varepsilon \cdot, a \cdot \theta \rightarrow i \cdot, \varepsilon, \varepsilon y, \varepsilon \cdot$		
a→ 0,0	a→ ε•	
а∙→ ө	$a \cdot \rightarrow \varepsilon, \Theta$	
o→ i	o→ i	

There is nothing particularly systematic about the above limitations. However the tables do allow statements to be made like:

- a,) When an i-stem has derivational ablaut it will be As, As, or Aa\*,
- b.) When an i.-stem has continuative or plural ablaut it will be As.,
- c.) When an o-stem has ablaut it will be Ai, and
- d.) Flurals of stems in sy, a, a., or o are formed only by means other than ablaut (i.e., reduplication or infixing -el-).

There are, finally, a few lexical suffixes which trigger specific types of ablaut. These suffixes are not the only causes of these types of ablaut, but do account for a fair number of cases.

- 1.  $\epsilon(\cdot) \rightarrow \acute{a} \cdot$  / \_\_\_...-əs 'dollars, money'
- 2.  $\epsilon \cdot \rightarrow \acute{a} \cdot / \underline{\phantom{a}} c^{-y(x,\#)} \dots (e) \theta et 'for oneself'$
- 3. some (θ,ε·,i) → á· / \_\_...-á·s ~ -es 'face'
- 4. some ε→ á·/\_\_...-á·s ~ -es 'moon, cyclic period'
  (It is quite probable that the suffixes in 1, 3, and 4

are actually a single suffix, 'round things'.)

- 5. unrounded vowel → θ / \_\_\_...-elsx<sup>y</sup>ε 'times ten'
- 6. vowel → 0 / \_\_\_...-á·y0el 'lip, jaw', -f·les 'chest'
- 7.  $\varepsilon(\cdot)(y) \rightarrow e / __...f\cdot 1 'go, come'$
- 8. some vowels -> 0 / \_\_\_...-tel 'device'

The "..." means anything intervening except word bound-

ary. The changes shown apply to all vowels of the correct shape, anywhere in the stem preceding the suffix. For example, /təqé·cs/ 'eight' -> /təqəcəlsx / 'eighty' and /təqá·cá·s/ 'eight dollars'. More examples of each suffix will be found in the chapter on lexical suffixes.

## 2.3.5. Vowel Combination and Metathesis.

2.3.5.1. There are some cases of insertion of glottal stop or glottal spirant to prevent vowel mergers. {-á·lł} 'young' and {-έ·lέ} 'container of' have both 2 and brinsertion in rules to be found in 2.3.6. {-elep} 'second person plural possessive' has ? inserted after a preceding vowel; for example, ts k wosu? elep 'you folks's pig' and to šúk o? elep 'you folks's sugar'. Other examples of ?-insertion occur between vowel-final morphemes and vowel-initial suffixes {-£·laws} 'leaf'. {-£·ltel} 'medicine', {-f·les} 'chest', {-éleqW} 'head', {-á·ls} 'fruit, round object', {-á·les} 'eye', {-íwét} 'rump', {-iwel} 'insides, inside', and unique cases of  $\{-\epsilon \cdot wtx^{W}\}$  'house, building' and  $\{-\epsilon le\}$  'people' (which normally have vowel merger). The examples found are (in phonemic transcription): c'ak' a'é laws 'skunk cabbage leaf', xweq'wele? follow 'hangover medicine'. 0'ele? f.ltel 'heart medicine, juniper', sc's?f.les 'Chehalis', sqə?éləqw 'soft spot on a baby's head' (Tait dialect), sqe?á·ls 'soft spot on a baby's head'

(Chilliwack dialect), sqe?&·ls 'juicy fruit' (homophonous), qe?&·les 'tear' (q&· 'water', qéyqe 'soft'), st'ale?&·lestel 'eyeglasses', lsm&?fw&t 'kick in the rump' (lsm&t 'kick s-o'), sqw&?f·wel 'hollow', xwe?f·wel 'generous, kind-hearted', tèle?&·wtxw 'bank' (téle 'money, dollars'), and teq&ce?&le - teq&c&·le 'eight people'. Apparently ?-insertion is morpheme-dependant and takes place across morpheme boundary. Very few examples have been found of ?-insertion within a morpheme: xwe&t&lem 'get cloudy': sxw?&etel 'clouds' is one example. Such insertion is apparently derivational and has nothing to do with preventing vowel mergers.

2.3.5.2. Whenever insertion of ? or h does not occur, two adjacent vowels combine or merge according to the following rules:

$$\begin{array}{l} \mathbb{V} \bullet_1 + \mathbb{V} (\bullet)_2 \longrightarrow \mathbb{V} \bullet_1 \\ \mathbb{V}_1 + \mathbb{V} \bullet_2 \longrightarrow \mathbb{V} \bullet_2 \\ \mathbb{V}_1 + \mathbb{V}_2 \longrightarrow \mathbb{V}_2 \end{array}$$

Examples:

 $sx^{W}f \cdot + -\vartheta f \cdot x \vartheta l : sx^{W}(?)f \cdot l f \cdot x \vartheta l 'armpit' - 'right arm' q \acute{a} \cdot + - \vartheta l f \cdot x \vartheta l 'armpit' - 'right arm' q \acute{a} \cdot + - \vartheta l f \cdot x \vartheta l ' l f \cdot x \vartheta l 'think, thought' s l f \cdot x \vartheta l f \cdot x \vartheta l ' l$ 

```
east side of Mt. Cheam' (lit. 'hole in the ground')
?isé·(le) + -é·±p: ?isé·±p 'two trees'
θiv(ə) + qwe· + -é·ls: θiyəqwé·ls 'dig'
s-q^W \acute{\epsilon} \cdot + - \acute{\epsilon} \cdot l \acute{\epsilon}: sq^W \acute{\epsilon} \cdot l \epsilon 'area around base of Little
     Mountain where there's an Indian graveyard'
t'é·ge ~ t'é·ge + -é·lp: t'égè·lp 'salal plant'
?alile + -£.ip: ?alile.ip 'salmonberry plant'
celq-á·me + -é·tp: celqá·mé·tp 'blackcap bush'
lác'a + -é·xW: lac'é·xW 'once'
sí·lə, mélə, sísələ, səlsí·lə + -è·l: (respectively)
     sf.lè.l 'late grandfather', mélè.l 'late child',
     sísəlè. late grandmother, səlsí. lè. late
     grandparents'
mé · qs + - á·s: megá·s 'moon of fallen snow, December'
      (this derivation includes Ae)
lác'a + -é·was: 'one canoe paddle'
1-6wa + -iθ'ε - -iθ'a: lowiθ'ε - lowiθ'a 'naked'
Θ'elέcε ('name of elder Wealick brother') + -iyε ('dim-
      inutive') + -tel: 0'eléciyetel 'name of Richard
      Malloway Sr.
-elsx^y \ell + -\ell le: -elsx^y \ell le as in <math>elsx^w elsx^y \ell le 'thirty
      people', and also as in 40, 50, 60, 70, 80, and
      90 people.
```

léc'e + -es: léc'es 'one dollar', s-léc'es '1:00'
?isé:le + -es: ?isé:les '2:00', (+Aa:) ?isé:les 'two

s-owf. + -fp ~ -ep: sqwf.p 'mountain lake on the south-

dollars'

2.3.5.3. Remaining forms showing vowel and stress alternations can be described by metathesis or by three rules for each one (two kinds of ablaut and one stress shift). The metathesis explanation seems simpler: /?iyá·təl/ 'fight': /?á·ytəl/ 'fighting' /kwɛɛuyəl/ 'throw out a drift net': /kwɛɛvyəl/ 'drift-

netting down the river:

 $\label{eq:linear} $$ \frac{\lambda^y \mathcal{E}^y t_{em}}{\sinh^y \mathcal{E}^y t_{em}} \cdot \frac{\lambda^y \mathcal{E}^y t_{em}}{\sinh^y \mathcal{E}^y t_{em}} $$ icontinuing diarrhea' $$ \frac{\lambda^y \mathcal{E}^y t_{em}}{\hbar^y \mathcal{E}^y t_{em}} $$$ 

'counting s-th'

/t'£lq' wem' 'warm (glow of fire), lukewarm':
/t'el£q' wtel/ 's-th warm, Indian name of Old Jack'

- 2.3.6. Suffix Allomorphy Involving Vowel Alternations. In proceeding from semantics to phonetics, these rules follow the numeral allomorphy rules (see chapter on numbers) and precede the stress rules (as they assign stress to the suffixes).

-> -ə±p / \_ \_ \_

28. //-£·ls// 'intransitive'  $\rightarrow$  -els only under 'continuative' ablaut. //- $x^y$ el// 'foot, leg'  $\rightarrow$  - $x^y$ £l only under 'continuative' or derivational ablaut. //- $ex^y$ // 'upright, standing, erect'  $\rightarrow$  -£ $x^y$  and - $ax^y$  only under 'continuative' or derivational ablaut.

See the chapter on lexical suffixes for examples of all the above thirty suffixes.

The above rules show all the lexical suffixes with independent vowel alternations which have come to light so far and most inflectional ones with such vowel alternations. In each case one allomorph has a stressed vowel (f., é., é, á., or á) and another allomorph replaces it with a schwa in that position (usually unstressed). As a result of the above rules and the stress rules in 2.3.1, the stressed allomorphs occur after an unstressed syllable or after a word-initial consonant or consonant cluster; the unstressed allomorphs occur after a stressed syllable. The stress of the preceding syllable cannot be used to predict complementary distribution of all the lexical suffixes above without recasting the stress rules in 2.3.1 and adding many more (ad hoc) rules to predict the stressed allomorphs of each root. And one is still left with a

healthy number of suffix rules to predict the allomorphs of suffixes which have more than one stressed or more than one unstressed allomorph.

A few more sets of allomorphic rules have been omitted from this chapter (for example those for numeral roots and for pronoun affixes) because they can be presented more clearly in conjunction with the chapters showing their morphological systems.

## 2.4. Consonant Alternations and Combinations.

One of the most interesting consonant alternations is  $1 \to y$ . Since this change involves a vowel and stress shift as well, it can be characterized as

1. //əl//  $\rightarrow$  iy / \_\_\_-ə½p

Some examples of this (in phonemic transcription) are:
méc'el 'black haw berry' -> mcc'iyelp 'black hawthorn
tree'

- $\lambda$ 'fk' el 'pea, bean, Kinnickinnick berry'  $\Rightarrow \lambda$ 'ik' yelp 'pea or bean vine, Kinnickinnick or Indian tobacco plant'
- e'éstel 'metal nail' → e'estíyeèp 'poplar tree' (so called because it resembles an upright nail)
- 0'q' "f'wel 'open sores inside legs or rump, hemorrhoids'
- → ⊖'q'<sup>w</sup>f'·wiyə±p 'swamp gooseberry' (used for medicine for open sores and hemorrhoids)
- \*0.6.10.1 (unattested but clearly reduplicated) ->
  0.6.10.1veto 'tall Oregon grape bush'

- \*e'6xWel (unattested but e'6xW 'wash' + -el 'intransitive' probably occurs)  $\Rightarrow$  e'exWfyelp 'red osier dogwood' (used as a purgative to wash out impurities or worms in one's system)
- 2. //el// → Ø / \_\_\_f·l 'come, go'. As in the last rule (2.4.1), the change applies to any morphophonemic sequence of //el// (with one exception, qelqelf·l 'destroy, break (and throw away)'). Some examples: sqémél 'pit house' + -f·l → sqemf·l sqemì·l 'inside a pit house'
- q's 'together' + -x<sup>y</sup>el 'foot' + -f·l 'go, come' + -T

  '3rd person object' → q'sx<sup>y</sup>f·lt 'go with, come

  with, be partner with s-o' (cp. s-q'á·-x<sup>y</sup>el 'part-ner')
- qel 'bad' + -ey0el 'lips, jaw' + -f:l 'go, come' + -em
  'medio-passive' -> qeley0f:lem qeliy0f:lem
  'say bad words, swear, curse'
- $q^W$ el 'talk' + -á·yee' 'lips, jaw' + -í·l + -em  $\Rightarrow$   $q^W$ elayef·lem 'making music; March (when birds begin making music)'
- 3. //T//  $\rightarrow$  0 / \_\_-áxy 'lst person singular object , me', -áme '2nd person singular object, you'  $\rightarrow$  t / \_ \_ \_.

This morphophoneme appears in several very common verbal inflections: //-T ~ - $\sigma$ T ~ - $\varepsilon$ T// 'do purposely' and //- $\sigma$ T// 'causative, cause to do s-th'. I have used

the symbol T following Wayne Suttles 2. For examples of this morphophoneme see the pronoun chapter: 4.  $//\theta^{2}$ // sporadically appears as /c<sup>2</sup>/ instead of / $\theta^{2}$ /. For example, 'skunk' /s0'épeq/ ~ /sc'épeq/, 'mediumsized woodpecker with red under wing (red-shafted flicker)' /0'f.g/ can probably be equated to 'small red-headed woodnecker (red-breasted sansucker?)' /c'i.o/. 'osprev. fishhawk' /0'6xW0'exW/ ~ /c'6xWc'exW/. and 'swamp gooseberry' /0'a' wivetp/~/c'a' wivetp/. When questioned on this alternation, native speakers seem to regard  $/\theta$ ? as more basic and pronunciations of /c'/ as idiolectal or dialectal variation, lenis pronunciation (perhaps sociolinguistically inferior) or error. It is unclear whether this variation is restricted to certain morphemes or can occur with any morpheme containing //09// if the sociolinguistic conditions are right.

- 5. Glottalization and deglottalization have a derivational function in a few sets of examples but are too unsystematic to be given the status of a morphophonemic rule. Examples:
- p → p' as in s-k'ep 'deep, down', k'ep-f:l 'go down, descend' beside s-k'ep'-6l'ec 'tail', k'ep'-6l'ec-em 'wagging its tail'; also sq'ép 'together, a gathering' beside sq'ep'érl@etel %med'

<sup>2.</sup> Wayne Suttles: Unpublished grammatical notes on Musqueam Halkomelem for Anthropology 407, Winter 1969, Portland State University, Portland, Cregon.

- θ → θ' as in θ6x<sup>W</sup> 'disappear', θοx<sup>W</sup>-á·t-es 's-o concealed s-th' beside θ'6x<sup>W</sup> 'burn out, go down (of sun, moon, fire)' (unless the later is a semantic extension of θ'6x<sup>W</sup> 'wash')
- $k^W \to k^{*W}$  as in  $k^W f x^V et$  'name s-o or s-th' beside  $k^{*W} e x^V \ell t$  'count s-o or s-th'; also  $p^* \ell k^W$  'float, come to the surface' beside  $p e k^{*W} \ell m$  'be dusty' or  $s p \ell \cdot l k^{*W} e m$  'dust' (this would show  $p^* \to p$  deglottalization as well)
- $q \rightarrow q$  as in  $q\acute{a} \cdot m$  'dip or get water' beside q'em- $\acute{a} \cdot s$  'to dip-net'
- p;  $\rightarrow$  p as in s-p;61x<sup>W</sup>-em 'lungs' beside s-pex<sup>W</sup>e(1)- $\pm$ 6·1-em 'breathe air out from lungs, sigh'
- $\theta^* \rightarrow \theta$  as in  $\theta^* \mathcal{E} \cdot l\theta$  'heart' beside  $\theta \mathcal{E} \theta \theta l$ -met 'admire, wish for s-o or s-th'
- q' -> q as in c'-q'éyx 'black', q'éyx-el 'turn black'
  beside qéyx-es 'blind', qéyqeyxelà 'shadow';
  also seq' 'split in half' beside seq-f'ws or
  seq-éyiws 'pants' (-f'ws 'covering')
- 6. Labialization is used derivationally also but is not common.
- q' \rightarrow q' as in c'-q'\(\xi\)y 'black' beside q'\(\xi\)\(\xi\)y\(\xi^{\w}\)-ss '\(\xi\)
  k'\(\wi\)\(\xi\)''\(\xi\)''' '\(\xi\)''' 'gray?', c'-q'\(\xi\)''\(\xi\)''' 'gray?', c'-q'\(\xi\)''\(\xi\)'''
  -əl 'brownish-black' (-el '-ish')
- $q^{\,\flat} \to \, k^{\,\flat W}$  and  $x \to \, x^W$  may be illustrated in the above as well.

- 7. Backing and fronting are used derivationally too:
  k<sup>W</sup> ⇒ q<sup>W</sup> as in cá·k<sup>W</sup> 'be far off, distant' beside
  cá·ləq<sup>W</sup> 'backwoods'; also t'6k<sup>W</sup> 'get muddy'
  beside θ'eq<sup>W</sup>-6±cs 'mudpuddle, dirty pond' (-6±cs is 'unclear liquid')
- $k^{*W} \Rightarrow q^{*W}$  as in  $k^{*W}f^{*}$  or  $k^{*W}fy$  'climb' beside tem- $q^{*W}fy$ -l-es 'time when (everything) comes up, springtime'

Examples of  $q^9 \rightarrow k^{90}$  fronting can be seen in 2.4.6. 8. There are a few examples of affrication as a derivational process:

- t' → 0' as in t'&k' 'get muddy', t'&k'', 'ek'' 'muddy'

  beside 0' eq'' 6+cs 'mudpuddle, dirty pond'; also

  t'eq'' 6+t 'cut s-th in half' beside 0'iq'' 61cep

  'split (fire) wood, chop wood' (- 61cep or cep

  means 'firewood') (this example is not applicable

  if 0'iq'' 61cep < 0'fq' et 'punch or hit s-o or

  s-th').
- Some consonant cluster simplification occurs, especially with sonorants and sibilants. Several rules can be observed:
- .1. Sonorant  $\rightarrow \emptyset$  in free variation with length after sonorant  $_a$ . Examples: tél 'understand' + -l 'purposely' + -ex 'Zrd person object', -es 'Zrd person subject'  $\rightarrow$  tél·ex 'es 's-o understands s-th'; tél 'understand' + -lá·met 'by oneself'  $\rightarrow$  telá·met ~ tel·á·met

'understand'; q waqwel 'talking' + -A- derivational ablaut + -l&c 'rump, bottom' \( \rightarrow \quad q^W \text{efg} \) elec 'to gossip'; \( \text{te-(meaning unclear)} + q'\text{el 'believe'} + -l 'purposely' \\ + -ex^W '3rd person object' \( \rightarrow \text{teq'sl-ex}^W \quad \text{thow} \quad \quad \quad \text{thow} \quad \quad

.2. s  $\rightarrow$  Ø / s\_\_. Examples: all third person possessives of stems ending in s as in músməs 'cow' + -s '3rd person possessive'  $\rightarrow$  músməs 'his cow, her cow, their cow'; stá·ləs 'wife' + -s  $\rightarrow$  stá·ləs 'his wife'; etc.

.3. (c, t) + s \rightarrow c / \_\_\_C, #

Examples: \(\theta \) t' to \(\say' + -sT'\) causative' + -ex '' '3rd \)

person object' + -es '3rd person subject' \rightarrow

\(\theta \) \(\theta \) c'; \(\quad \) qelét 'again, another'

(root shape unclear, stem includes -\(\xi \) '3rd person \(\theta \) cipct' + -cs

'future' \rightarrow qeléccs [qel\(\xi \) do it over, try it \(\again'; \) ?\(\xi \) k'' elec 'back (of body)' + -s '3rd person \(\theta \) possessive' \rightarrow ?\(\xi \) k'' elec 'his back' along with other \(\text{examples of c-final noun stems suffixed with -s.}

\(\xi \) \(\xi \) \(\xi \) c in one example found to date:

.4.  $T \rightarrow \emptyset$  / \_c in one example found to date:  $\frac{1}{2}$ eq'é't 'be wide' + -ces 'hand'  $\rightarrow \frac{1}{2}$ eq'é'ces 'five'. I mention that this is of limited occurence (unlike 2.4.9.1 through 2.4.9.3) since there are a number of cases of  $T \rightarrow t$  / \_-ce 'future' (there, /t/ is aspirated due to phonemic rules).

2.4.10. A number of allomorphic rules involve consonant alternations, but they are so morpheme-dependent that they are best listed in the lexicon. A sample of these might include:

- 1.  $\{-x^{y}\ni 1\}$  'foot, leg'  $\rightarrow -x^{y}\ni / \underline{\hspace{1cm}} -(\ni)$ T
- 2. {-qel} 'language' → -qe / \_\_\_-(e)T
- 3. {\\hat{\kappa}'\(\xeta\text{t}\) 'long' → \(\kappa'\)\(\xeta\text{tlqt}\) \_\_--\(\delta\text{lec}\), -\(\delta\text{lec}\)
- 4. {q'émél} 'paddle' → q'emé'w / \_\_-elp (cp. s-q'émél 'canoe paddle')
- 5. {c'em} 'bite'  $\rightarrow$  c'émxy / \_\_-á·y0el
- 6. {há·y} 'finish' → há· / \_\_-á·yθəl
- 7. {'Ey} 'be good' → 'iy / \_\_\_-derivational suffix

## 2.5. Reduplication.

2.5.0. Types of Reduplication. Reduplication occurs prefixed, suffixed, and infixed. One of the infixed types is extremely productive. Some types of reduplication are stress attracting; others are always unstressed but occur in predictable locations in regard to stress. The range of meanings conveyed by reduplication also shows some patterning, sometimes predictable by word class, sometimes by semantic domain, sometimes unpredictable.

Reduplication will be considered here as defined solely on a phonological basis: all examples are considered in which at least a consonant of the root word was duplicated in an adjacent syllable. As a result. the examples include (besides productive types of reduplication) a number of non-productive types and a number of examples in which no clear meaning has been isolated for the reduplication (through lack of an unreduplicated form). The latter examples may be crystallized forms in which there was originally a verb plus continuative or noun plus diminutive or the like, which has since lost its literal meaning and its unreduplicated counterpart. This process can be seen taking place in at least one example ('Scotch thistle'). In addition to including such examples, the selection process may have also included forms whose apparent

reduplication is the result of historical merger or derivational affixation as yet undetected.

Examples will be quoted in morphophonemic transcription with affixes segmented. Ten types of reduplication (R) have been classified on the basis of shape and position regarding the root. Each type is given a subscript number and hyphenated to indicate whether prefixed, infixed, or suffixed. The consonant reduplicated is numbered in the description of each type to correspond with the position of the consonants in the root. Thus  $-R_1$  is the first type of reduplication, an infix with the shape  $-C_1 \circ -$ , where  $C_1$  is the first consonant of the unaffixed root and a is the phoneme or morphophoneme e. (Wherever a phoneme is not covered by a morphophonemic or allomorphic rule it can be transcribed morphophonemically by the phonemic symbol and called a morphophoneme on the morphophonemic level.) Since reduplication is defined in terms of roots, it may be helpful here to note that a root is a morpheme with lexical meaning, which has been stripped of all affixes.

2.5.1. -R<sub>1</sub>- infixes -C<sub>1</sub>e- after the first vowel of the root (prefixes, such as s-, x<sup>w</sup>- or tex<sup>w</sup>-, of course are not part of the root). The infix is unstressed and follows a high-stressed syllable.

-R<sub>1</sub>- encompasses the following meanings: 'continuative', 'diminutive', 'pet name', 'verbal adjective'

and 'comparative'. This type of reduplication is very productive; over 150 examples have been obtained without even trying. Here are some examples showing the unreduplicated form to the left of the colon and the reduplicated form to the right: Examples without a colon will be reduplicated forms for which I have not vet found corresponding unreduplicated forms. xyá·k, w-em 'bathe': xyáxyek, w-em 'bathing' viq 'fall (of snow)': yiyeq 'falling (of snow)' kWf(·)m-el 'get red': kWfkWem-el 'getting red' t'i'l-em 'sing': t'it'el-em 'singing' s-t'f'l-em 'song': s-t'ft'el-em-s 'his singing' p'έθ' 'sew': p'έρ'θθ' 'sewing' mát'es 'point, aim': mámet'es 'pointing' qwell 'talk': qwaqwel 'talking' (also has Aa) g'évx-el 'gone black': g'éyg'ex-el 'getting black' (see 2.3.3.8 for this and similar forms) s-paleqw-i0's 'ghost. dead body': s-papeleqw-i0's 'screech owl: little ghost' q'é·mi 'adolescent girl': q'éq'emi 'little girl (4 years old or so)' s-tá·lo(w) 'river': s-tátelo(w) 'creek' xá·cε 'lake': xá(·)xcε 'little lake' s-ti.0 'skinny': s-tita0-al 'puny' si le 'grandparent': sisele 'granny (pet name)' té·l 'mother': tétel 'Mom (pet name)'

```
mé·l 'father': mémel 'Dad (pet name)'
s-c'á·məq 'great grandparent; great grandchild':
     s-c'ac'emed 'great grandparent or great grand-
     child (pet name for both)
s-pi·w 'ice' (cp. pi(·)w-at 'freeze s-th'): s-pipaw
     'frozen'
0'á.1-əm sq'áq'əy 'a cold (lit. chill sickness)':
     e'áe'el-em 'chilled, being chilled'
l'fl-em 'salt': h'fh'el-em 'salty'
k, wfs 'get burned': k, wf(.)k, wes 'hot'
t'ft'; 20'-em 'fermenting, sour (of apples, half-ripe
     fruit) (~ t'ét'ec'-em)
sésex-em 'bitter (of rancid peanuts, medicines, roots,
     cascara bark. etc.)'
a'£a'et'-em 'sweet-tasting'
c'éc'es-em 'tasty, good-tasting (of meat, nuts, etc.
     but not a sweet taste)
s-cf.+ 'first born', s-ce+-á.y0el 'upper lip':
     cicel 'high, top, above'
s-0f.-eqel 'loud voice (lit. big throat)': 010e
      'bigger, larger', 0:00-h£loq 'getting bigger'
c'éc'el 'very'
In nouns and verbal adjectives there often seems to
be a 'continuative' -R1- (no longer translated as such)
in examples of crystallized reduplication. For example:
yég'-eT 'fell a tree': s-yéyeg' 'a log'
```

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skWikWalstaled 'teacher' (probably < skWú·l 'school')
lf.c'-eT 'cut s-th': s(-)xW-lflec'-els 'a saw'
xyip-oT 'carve s-th': s-xyixyop 'a planer'
pi(·)w-oT 'freeze s-th': pipowols 'freezing cold'
syyfryam 'shallow water'
s-gém 'quieter water, died down a little': saéaəm 'calm
     water, quiet water'
t'é·l 'go out of sight (of sun, person, etc.)':
     st'ét'al 'shade (of a tree. etc.)'
xéxel 'frost'
Attal 'crystal'
n'£n'xW-em 'shv. quiet'
a'£a'ah' 'fit(s), convulsion(s)'
t'át'alam 'flea'
A6.Aal 'mouth'
cécew 'beach, shore'
s-060ayal ~ s-060iyal 'blood'
```

A dozen or so examples have the high stress shifted away from the syllable before the reduplication, due to a high stressed suffix. This is predictable from rules which have already been given. Some examples: s-'nominal' + ±á±ek'\* 'flying' + -1·wel 'inside(s)' 

⇒ s±a±ek'\*f·wel 'surprised, stupified'; cá·k\* 'be far away, be distant' + -R<sub>1</sub>- 'continuative'? + -á·les 'eyes' ⇒ cack\*á·les 'goatsbeard plant' (since its white blooms can be seen from a great distance);

mè·0'01-q&y1-em 'lie, prevaricate' + -R<sub>1</sub>- 'continuative'

→ mème0'elq&y1em 'lying'; lewq-f·m 'medium-sized
gray swamp blueberries' + -R<sub>1</sub>- 'diminutive' →
lèlewqf·m 'small gray swamp blueberries'.

2.5.2. -R<sub>2</sub> suffixes -C<sub>1</sub>=C<sub>2</sub> after C<sub>2</sub> of the root. This suffix is unstressed and follows a high-stressed syllable. The semantic area covered is a sort of 'inherent continuative' (so continuative that it extends the meaning of the root), 'inherent plural', perhaps a few examples of plain 'continuative' and 'plural', and a number of examples of flora and fauna in which the reduplication is petrified or crystallized and its meaning is not clear. As in other types of reduplication the stress pattern is sometimes changed because of high-stressed suffixes (added here after the reduplication). In some of these cases, where stress is shifted and where the root vowel is e, it is difficult to tell whether the example has -R<sub>2</sub> or R<sub>3</sub>-.

 $-R_2$  is a less productive type of reduplication, so all the examples found to date have been included in what follows:

qwe-1 'talk': s-qwelqwe-1 'language, talk', qwelqwe-1
'rowdy', s-qwelqwe-1-\(\epsilon\) utxw' language room' (modern coinage), qwelqwe-1-\(\epsilon\) talkative, talks too much' ("rowdy mouth"), qwu-1qwe-1 ~ qwe-1tel
'they were all talking, talking together'

leg'é·lg'el 'travel', leg'é·leg'el 'travelling' lúž q, wal 'become ripe, get ripe': lúž q, walq, wal 'gone overripe' s-?6c?ec 'stuttering (noun)', ?6c?ec 'stuttering (verb)' (as AC explained it there is no non-continuative form because "you can't stutter just once") c'ag' 'poke': c'ag' c'ag' -T-axy-as 'it's poking you' q, wevilexy to dance: q, weyq, weyilexy a dancer ofl 'be bad': qelgel-f.l 'break and destroy s-th' mélmel 'blunder, make a mistake', melmel-á·yeel 'blunder in speaking! root sel- 'spin': sélsel ~ sélseltel 'wool spindle' cowcow 'away from the shore, toward the river' (becomes [čuwčuw] as result of phonemic rules) q'éyx-el 'get black, go black': qéyqeyxelà (which can also be interpreted qéyqeyxelà) 'shadow', qeyqeyxəlasəm 'ray of sun between clouds' h'fwels 'bark': h'fwh'ewels 'barking (of dog(s))' xéleq't 'open one's eyes': xélxeleq't 'lightning, (Thunderbird) opening his eyes' téy 'to canoe-race': ?istéyteyel 'a group of canoes travelling upstream (moving camp to fish or dry fish)' (could also be derived from root tiyt 'upriver') xsylxələm-á·s 'fleecy wave clouds'

 $s-16m-x^{y}$ el ~ 16m-tel ~ s-16m+em 'dew' (cp.  $16m-ex^{w}$  'to

rain')

yéq'-eT 'to fell a tree', s-yéyeq' 'a log': s-yéq'(e)yeq'
'a lot of logs'

e'sx 'wash': e'sx 'e'; 'fishhawk, osprey'
msk mak 'bumblebee' (CT)(possibly < msk 'stout, strong')
wsewe ~ w19-ivs 'snipe'

 $s-k^W$ 60  $k^W$ 90 -  $s-k^W$ 60 'willow grouse'

q'&ys-eT 'tie s-th': q'&sq'es(e)cel 'spider (the weaver or net-maker)' (cp. also sxW-q'&yq'esecel 'netting shuttle, a shuttle for making nets')

q'śwq'ewe 'Kawkawa Lake', q'ewq'ew-eléce 'name of a male loon', q'ewq'ew-elét' 'name of female loon'

θ'áxθ'ex 'stinging nettle'

xémxem 'mushroom'

s-q'élq'el 'muskrat'

musmes 'cow' (fits pattern though < Chinook jargon)
tew-£le 'sloping floor': tewtew-£le 'name of a mountain near Yale' may fit here too.

2.5.3. R<sub>3</sub>- prefixes C<sub>1</sub>=C<sub>2</sub>- to C<sub>1</sub> of the root. This prefix is unstressed and immediately precedes a high-stressed syllable (except with the word for 'dog'). As in -R<sub>1</sub>- and -R<sub>2</sub> high stress is sometimes shifted to a high stressed suffix. The meaning is 'plural' in all but two or three cases (once 'diminutive', once 'eldest', and in four cases crystallized without a non-reduplicated counterpart attested). All examples found are

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cited here:
sf.le 'grandparent': selsí.le 'grandparents'
?f·me⊖ 'grandchild': 'em?f·me⊖ 'grandchildren'
s-leti(y) 'woman (16 yrs. or older)': slelleti(y)
     'women (16 yrs, or older)'
?flary 'sibling': ?el?f.lexy 'siblings'
erW-?flayy 'husband's sister. (possibly also woman's
    brother's wife)': sxW-?el?&·lexy 'husband's
     sisters'
s-tá·les 'wife': steltá·les 'wives'
s-x wəm@iy&. (possibly -&.) 'deceased uncle, aunt or
     grandmother, or someone else deceased who is res-
    ponsible for ego directly or indirectly':
     sy wamy wam 0 v 2 deceased uncles, aunts or grand-
    mothers, or others deceased who were responsible
     for ego directly or indirectly'
s-mé·lt 'rock, mountain': sməlmé·lt 'rocks, mountains'
Gagét 'tree': GagGágat 'trees'
s-oWamé.v 'dog: soWamoWamé.y 'dogs'
t'é.lów 'arm': t'elt'é.lów 'both arms'
Oámél 'eyebrow': OemOámél 'both eyebrows'
awilós ~ aweylós 'hair on body': sawelawéylos 'body
     hairs', sq welq el-qsel 'hair(s) in nose',
     a welg well-x yel 'tufted leg hair on horse (like on
     a Clydesdale)'
s-q'elq'élp-eq" 'curly hair'
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sxW-?fla 'cheek': sxW?al?fla 'both cheeks'
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- q w mx -ces 'wrist bone, lump of wrist': (Chehalis dialect) q memq memces 'hand and finger joints (collectively)', (Chehalis) q memq mem memcay left out and toe joints (Collectively)'
- qwarme, 'lump': qwemqwarme, 'lots of anthills'
  t(e)q-&T 'close s-th (door, etc.)': steqt&q 'jampile,
  logiam'
- p'élq'-em 'sparkling, glinting': p'elp'èlq'em-é·lews
  'poplar (lit. sparkling leaves)' (-é·lews 'leaf')
  c'éq' 'poke': c'eq' 'c'éq' 'thorn' also 'Scotch
- c'éq' 'poke': c'aq'c'éq' 'thorn' also 'Scotch thistle'
- st'elt'el&xel 'a square' (-el&xel 'arm')
  c'%'ém 'jump': %'em%'ém-x<sup>y</sup>el 'grasshopper' (probably
  a back-formation)
- s-tá·lew 'river': teltelewé·m 'lots of little streams
  (like run down a hill after a rain)'
- s-xéle 'leg': sxelxéle-s te s-yá·q(') Wem 'shafts of light (lit. legs of the sun)'
- yél·es 'tooth': yelyelísem 'many icicles', syslyelísem 'icicle' (this gloss and the & may be in error)
- kwelqéylém 'cave'; kwelkwelqéylém 'caves' (probably
  has -oéyl 'throat and mouth')
- s-xeq'x5q'et 'a little bluff'
  (Tait dialect) lexwlf5xw 'choke cherry' (op. lexw-6lcs ?

- 'to spit'. -61cs 'unclear liquid')
- lép'exy 'eat': lep'lép'exy 'eat it all'
- lók<sup>W</sup>-x<sup>y</sup>el 'break a leg': lek<sup>W</sup>lók<sup>W</sup>et 'break s-th into small pieces (like kindling)'
- yeq burn': yeq yeq burned up', s-yeq yeq 'something which burned up', yeq yeq -1. ws 'name of village now Yakweakwioose Reservation (lit. repeatedly burnt out covering (either houses or grass))'
- seq'-fT 'split s-th': seq'séq'et ~ séq'et 'splitting them up, chopping them up'
- s-mełméłqw 'rough (of wood)'
- xéym-el ~ xim-el 'grab': xemximels ~ xemxéymels
  'hawk. chickenhawk' (grabs things)
- s-c'á·məq 'great grandparent, great grandchild' (probably has -eq 'head' in metaphorical sense): sc'emc'á·məq 'eldest great grandchild'
- ?el?éliys 'dream, dreaming' (AC)
- 6'6'ys c'6'ys 'in-law after death of connecting relative': c'eyc'6'ys 'in-laws after death of connecting relative'
- 2.5.4. R<sub>4</sub>- prefixes C<sub>1</sub>f- to C<sub>1</sub> of the root and has the meaning 'diminutive': It attracts the high stress of the word in all cases but those with high-stressed suffixes and five other examples. With some examples it is also hard to tell root vowel i + -R<sub>1</sub>-

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from root vowel \theta + R_n-. Another feature which may be
related to R_{\mu}- (or to the fact that R_{\mu}- is high stressed)
is frequent ablaut of root vowel after R_h - is prefixed.
Following are the examples found to date of R_h-:
sqewέθ 'big rabbit, rabbit': sqíqewèθ 'small rabbit'
skWal 'waterfall': skWfkWal 'small waterfall'
sk, welyexel 'bat': sk, wik, welyexel 'young bat'
Oegé•t 'tree': OfOeget 'little tree' (~ OfOget)
pehamó·ł 'bullfrog, big pretty-colored frog': pípehà·m
     'frog!
xyá·k, w-em 'bathe': xyíxyek, wam 'swimming'
s-yeq w-f·l 'lamp, lantern': yiyeq wf·l 'small light,
     candle!
?sxWf·l 'small': ?i?sxWi·l 'smaller'
má·qW 'bird': mí·məqW 'small bird'
sq wemey 'dog': sq wiq wemey 'puppy'
sxwá·xwo, 'crazy, insane': sxwixwá·xwo, 'stupid, not
     all there'
qwey-el 'gone yellow': qwiqway-els 'orange (color and
     fruit)
smiməyed 'butterfly', smiməxed 'caterpillar'
?elílε ~ ?elíle 'salmonberry' (cp. lí·lε-ces 'little
     berry basket (tied around waist, used first then
     dumped into big berry basket)', this Tait dialect
     form means "salmonberries in hand")
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swiwe 'eulachon, candlefish'

st'éx 'fork (in tree, stream, etc.)': st'it'ex-eve 'Ruby Creek (lit: 'little fork')'. st'it'x-ayeq 'fork in roots or tree', t'it'x-á.veg 'crutch' possibly a "fa"i 'copper' (Chehalis dialect) skyfkyaky 'chickadee' (ky endearing ) sof o 'vounger sibling': kyeky ~ kyikyeky 'little sister, darling or dear (mother to little girl)' wik, yε ~ wiwik, yε 'darling or dear (mother to boy)' xyewag 'wild carrot': xyfxyawiyag 'little carrots' mémələhá·lł 'bird's egg' (< mémələ 'children' < mélə 'child'): smimələhallé.lé 'little bird's nest' ±61-tel 'a bailer': ±1±eltélec 'island in front of Union Bar (only cut off from land during high water time)' (lit. little bailer at bottom) seci( · )ws 'pants': siseciws 'short pants, little pants' héwt 'rat': hihéwt 'small rat' (cp. heheléwt 'a few little rats!) xwixwek, mountain blueberry resembling sxwexyixyea but sweeter' sp'έ·θ' 'red-flowering current. Indian current': spipehè.0' speckled trout or landlocked salmon (which is said to hatch from Indian current ber-

underpants', k'ik'ep-l-élwet 'man's underclothes' xyec'-f'l-em 'go through the woods': sxyfxyec' 'small bush, woods' ryfrywele.we 'fish air bladder' q dq et 'mountain ash' (possibly < q d spill out') e'sxw-met ~ e'fe'exw-met 'compassion, pity' sk'fk'eqet 'child (generic)' swiweles 'adolescent boy' skWfkWexyel baby sockeye' possibly sisem 'feel creepy, fear s-th behind': sisi 'be afraid, nervous' 2.5.5. R5- prefixes C10- to C1 of the root, remains unstressed, and precedes the high-stressed syllable: Its meaning is 'continuative', 'inherent continuative', 'plural' and 'diminutive' and 'distributive': The examples found are as follows: xwf 'wake': xwexwf 'waking', s-xwexwf 'awakened' xéyl-t 'write s-th, draw s-th': xexéylt 'writing, drawing' k, Wf(v) 'climb': k, Wak, Wf 'climbing' kWf(.)m-el 'get red': kWelkWimel-es-em 'blushing, one's face is red' (-el- infix unclear) xWf 'starve, be hungry': xWexWf 'starving' t'émél 'chip', t'éméls 'chop with axe': t'et'émels 'chopping: a chisel' demá· 'suckle': dedemá· 'suckling'

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www.i 'to hide': kwakwi.l 'hiding'
c'lf.met 'hear (s-th)': c'ec'lf.met 'hearing'
tés 'approach, get near': stetís '(be) near, close'
a<sup>W</sup>ε 'get a hole': s-a<sup>W</sup>ea<sup>W</sup>ε 'a hole'
s-q'ép 'a gathering': sq'eq'ip 'gathered' (with Ai)
t'et'á set 'walk quietly, creep', t'et'éset 'walking
     along quietly, creeping along', t'et'sxyelem
     'creeping (more than one)'
pagw-át 'break s-th': spepígw 'broken'
mélec'-meT-á.y0el 'mixed up in speaking': memílec'
     'mixed up'
cataatik' 'sores'
sxéle 'leg. foot': sxexéyle 'legs, feet'
o'eo'éy 'guts, intestines'
s-c'á·m-eqw 'great grandparent, great grandchild',
     s-c'elá·meqw (-el- 'plural' infix) ~ sc'ec'elá·meqw
     'great grandparents, great grandchildren'
spá·l 'crow': spepelál 'bunch of small crows'
         < spelál 'small crow'</pre>
sx weyf.m 'myth' (from Elmendorf + Suttles 1960):
     sx wax ayém 'story. fable'
xWexWf.ye 'big fly, blowfly', xWexWiyf.ye ~ xWixWiyf.ye
      'housefly' (glosses may be exchanged in error)
x wex wire 'worm in salmonberries'
xe?á·0el 'four': xexe?á·0el 'four to each' (AC says
     this may be Nooksack; no other distributives among
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the numerals):

 $q^{W} = q^{W} \mathcal{E} \cdot 1$  'small float for nets (made from singed cedar)'

2.5:6.  $-R_6$ - infixes  $-8C_2$ - before  $V_1$  (root vowel). It is unstressed and occurs before a high-stressed syllable. It seems to have two meanings, 'diminutive' and 'plural', but like the remaining types of reduplication it is very rare. The few examples found are given here.

spá·l 'crow': spelá(·)l 'small crow'  $x^{W} e x^{W} \ell \cdot y e \text{ 'large fly' (already with } R_{5}-):$   $x^{W} e x^{W} i y \ell \cdot y e \text{ 'housefly, small fly' } (R_{5}-x^{W} R_{6} \ell \cdot y e)$  (iy < //ey//)

s-c'iyáys (<//s-c'eyáye// <//s-c'R<sub>6</sub>áye//) 'twins' selé·c' 'different'; selélec' 'two different things'

(the latter form could have plural infix -elinstead of -R<sub>6</sub>-)

2.5.7.  $R_7$ - prefixes  $C_1 \not\leftarrow$  to  $C_1$  of the root. It attracts the high stress of the root except when a high-stressed suffix causes stress shifting. It has 'plural', 'diminutive' and 'emphatic' meanings in the few examples found so far:

méle 'child (kinterm), offspring': mémele ~ mé·mele 'children (kinterm)'

texW-mélem 'stepchild': texW-mémelem ~ texW-mé·nelem 'stepchildren'

měmelehá·lł 'bird egg' (-há·lł 'young')

yiléw 'after': yéyilew 'a little after'
'éles ~ 'élee 'I, me, it's me, I'm the one who':
'é'eles '<u>I</u>, me, it's me, <u>I'm</u> the one who (all emphatic uses)'

possibly ±6±6.1 'in the back, inside'

2.5.8. R<sub>8</sub>- prefixes C<sub>1</sub>ε- to C<sub>1</sub> of the root, remains unstressed, and precedes the high-stress syllable. It is rare. It means 'continuative' in one example, 'plural' in another, and is crystallized in an animal name in the third. The examples found: p'&k' 'float, come to the surface': p'sp'&k' 'floating' (notice As in addition)

s-ti·wel 'sibling's child': stati·wel 'sibling's children'

ceci qel 'martin (possibly mink)'

2.5.9.  $-R_0$ —infixes  $-C_1 \not\in (\cdot)$ — after the root vowel  $V_1$ . This infix attracts the high stress of the word. Its meaning is 'continuative' in process of crystallizing, or 'continuative' and 'verbal adjective'. Only three examples have been found:

- s-06k, " 06k, " 'straight', 0ek, "-6T 'pull s-th': s-0e06.k, " 'stretched, straight, pulled tight' x6k, " 'get narrow, wedged in': s-xex6k, " 'canyon

(narrow, walled in with rock)

These last two examples could also be accounted for by ablaut plus  $R_{\varsigma}$ -:

2.5.10. R<sub>10</sub>- prefixes C<sub>1</sub>á- to C<sub>1</sub> of the root and attracts the high stress of the root. It is a numeral classifier for 'person' with the number 'one' and may appear crystallized in two other examples:

16c'e 'one': lálec'e 'one person'

q'e'f'lem 'ancient, wise': possibly syilálem 'year'

possibly s-lála 'brown thrush'

2.5.11. Residual cases. Less than two dozen cases of apparent reduplication remain as residue. Some of these are not reduplication at all, but roots which begin and end with the same consonant:  $x^W-\text{'big'}+\text{tft 'upstream'}+-\text{f·m 'repeatedly'} \Rightarrow$ 

"- 'big' + tit 'upstream' + -i·m 'repeatedly' →
x"titi·m 'eddy water'

q'61q'-eT 'answer s-o, reply to s-o', q'61q'-éyls 'answer, write a letter' (-éyls 'intransitive')  $x^{W} = x^{W} - \text{'sudden'} + -\text{i-l-l'come, go'} + - \Rightarrow x^{W} = x^{W} + - x^{W} + x^{W} + - x^{W} + - x^{W} + x^{W} + - x^{W} + x^{W$ 

'thunder, Thunderbird'  $x^W$ -pap-á·s 'hair all over the face'

?i?ayám 'walk slowly' is perhaps more a case of a petrified phrase, ?i ?áy 'keep on' (response to a story-teller) + ?á·yem 'slow, late'.

- s-x wemlf · k v 'parent's sibling': sx wemlf · lek v 'parent's siblings' is a case of Ac· + 'plural' infix -le-.

  The remaining cases do seem to have reduplication; they
- will be given with possible analyses:
- ?əmf·məl ~ ?əmśməl 'a small bit' may have ?ə- prefix +  $R_4$  'diminutive' + root məl; or ?ə- + root mf·l +  $-R_3$ -.
- s- $\theta \mathcal{E} \theta q i$  'sweet green shoots of thimbleberry, salmonberry, fireweed, etc.' may have  $-R_1$  crystallized.
- $s-w6x^yix^yeq$  'low small gray mountain blueberry' either has a stressed prefix +  $R_\mu$  or crystallized - $R_6$ 'diminutive'.
- qá· 'water': tem- 'time' + qeqá· 'high water' ->
  temqeqá· 'high water time; June' and s- 'nominal'
  + qeqá· 'high water' + -qel 'head' -> sqeqá·qel
  'a clear pond' both show qeqá· which is not otherwise attested. qeqá· probably features R<sub>5</sub>- with
  'plural', 'inherent continuative' or 'continuative'
  meanings.
- s-k,  $^{W}$ ak,  $^{W}$ q $\epsilon(\cdot)$ q 'robin' could be analyzed as  $^{-R}$ 1- + root k,  $^{W}$ áq + - $\epsilon(\cdot)$ q (unattested) or as new types of reduplication.
- q'ayfyec 'elk' may have crystallized  $-R_1$  (with prefix),  $R_4$ -,  $R_5$  or  $-R_6$  (the last two would require stress shifting as well and are less likely).
- k, wf.t el 'mouse': k' elak, wt'el 'a few mice' seems to

show Aa + -el- 'plural' infix + 'diminutive' - $R_1$ -. ceyiyex 'big gray lizard' may have a prefix and - $R_1$ -. ?£lel ~ ?£l?el 'magpie' may show - $R_6$ -.

mekw-£·mel-xy el 'big toe (lit. stout member of foot):

kwemkwa·melxy el 'little toes' shows 'diminutive'

by getting rid of the me of mekw 'stout, strong'

and 'plural' by R3-;

totee 'vein, veins' is uncertain in form, gloss and type of reduplication.

Finally, four cases seem to fit -R<sub>1</sub>- except in their stress patterns:

m&·y-T 'help s-o': mèméy-eT 'helping s-o'

 $\label{eq:mimaqw} \texttt{mimaq}^{\textbf{W}} \texttt{ 'little bird': maməl£-yləq'} \texttt{ 'flock of little}$ 

birds' (the a may be reflective of má·q bird') sqowéo '(large) rabbit', sqíqewèo 'small rabbit';

The second and third forms seem to be modifications of already-reduplicated words.

2.5.12. Allomorphy of Reduplication.

The following tables show the range of meanings of each type of reduplication and the range of types which express each meaning.

- -R<sub>1</sub>- (-C<sub>1</sub>- after V<sub>1</sub>) 'continuative', 'diminutive', 'pet name', 'verbal adjective', 'comparative', crystallized in flora and fauna
- -R<sub>2</sub> (-C<sub>1</sub>eC<sub>2</sub>) 'continuative', 'inherent continuative', 'plural', 'inherent plural', crystallized in flora and fauna
- R<sub>3</sub>- (C<sub>1</sub>=C<sub>2</sub>-) 'plural' in almost every case, once 'diminutive', once 'eldest', four times crystal-
- $R_n = (C_1 i -)$  'diminutive'
- R<sub>5</sub>- (C<sub>1</sub>e-) 'continuative', 'inherent continuative', 'plural', 'distributive', 'diminutive'
- -R\_- (-eC\_ before V1) 'diminutive', 'plural'
- $R_7$   $(C_1 \mathcal{E}-)$  'plural', 'diminutive', 'emphatic', and crystallized in one dubious example
- $\mathbb{R}_{8}$   $(\mathbb{C}_{1}\varepsilon$ -) 'continuative', 'plural', crystallized in fauna
- -Rg- (-C1 $\xi$ (·)- after V<sub>1</sub>) 'continuative', possibly 'verbal adjective'
- R<sub>10</sub>- (C<sub>1</sub>á-) classifier 'person', crystallized in two words (one fauna)

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'continuative' R<sub>1</sub>, R<sub>2</sub>, R<sub>5</sub>, R<sub>8</sub>, R<sub>9</sub>

'inherent continuative' R<sub>2</sub>, R<sub>5</sub>

'plural' R<sub>2</sub>, R<sub>3</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub>

'inherent plural' R<sub>2</sub>

'diminutive' R<sub>1</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>

'pet name' R<sub>1</sub>

'verbal adjective' R<sub>1</sub>, (R<sub>9</sub>)

'comparative' R<sub>1</sub>

crystallized in flora + fauna R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>7</sub>, R<sub>8</sub>, R<sub>10</sub>

'eldest' R<sub>3</sub>

'distributive' R<sub>5</sub>

'emphatic' R<sub>7</sub>
```

Allomorphs of a single morpheme must be semantically identical or similar --allosemes-- and must be in complementary distribution predictable on the basis of phonemic or morphemic environments or both. Of the 13 meanings for reduplication shown above, the meanings connected in the following by plusses are similar enough to be allosemes of a single morpheme:

'person' classifier R10

#### Sememe

tive' + 'verbal adjective'

/'plural' / 2.'plural' + 'inherent plural' + 'distributive'

/'diminutive' / 3.'diminutive' + 'pet name'

/'augmentive' / 4.'comparative' + 'eldest' + 'emphatic'

/'person classifier' / 5.'person classifier'

Where reduplication is crystallized in names for flora
and fauna, I believe the original meaning of the reduplication probably fit within 1.. 2., or 3.

/'continuative'/ 1.'continuative' + 'inherent continu-

Further, as will be demonstrated in the morphosememic chapter, /'continuative'/ and /'plural'/ (1. and 2.) are morphosememically related, closely enough to form a single morphosememe. //'continuative/plural'//.

It appears from the last two paragraphs that  $R_1$  is three homophonous morphemes,  $R_2$  is two morphemes, and so forth, as seen in the next chart (sememes are numbered as in the last chart):

(Abbreviations only to fit glosses in chart.)

Considering each type of reduplication to be phonemically similar enough to each other type to be prospective allomorphs, it remains to see if we can predict any allomorph relationships on the basis of phonemic or morphemic environments.

The lists, already given, of examples of each type (leaving  $\mathbf{R}_1$  with the elsewhere environment) are predictive on the level of morphemic environment (as a last resort). But perhaps the phonemic environment can be helpful.  $\mathbf{C}_1$  and  $\mathbf{C}_2$  of the root show no correlation with reduplication type but root vowel  $\mathbf{V}_1$  does.

A noticeable feature of roots taking  $-R_1$ - is that so few of them have  $\circ$  as  $V_1$ . Out of over 150 examples only nine have  $\circ$  as  $V_1$ :

- 1. q'emá·s 'to dip net': q'éyq'emas 'dip-netting'
- 2. 0'sx 'burn out (of fire, sun, moon)': 0's0'ex 'burning out'
- 5. lex<sup>W</sup>- 'always' + p'éq' 'white' + -R<sub>1</sub>- 'inherent continuative' + -es 'face' → lex<sup>W</sup>p'ép'eq'es 'name of mountain on northwest side of Fraser R. between Hope and Yale'
- 4. s-léx-ces 'finger': slélexces 'all the fingers'
- 5. s-léx-xyel 'toe': slélexxyel 'all the toes'
- 6. q<sup>W</sup>əłé·y 'driftwood': q<sup>W</sup>éq<sup>W</sup>əłəy ~ q<sup>W</sup>éłq<sup>W</sup>ełəy 'lots of little pieces of driftwood'
- 7. sqíqewèθ 'little rabbit' or sqewéθ '(big) rabbit':

sowhowewee 'bunch of rabbits'

- 8. xéxel 'frost'
- 9. lewqf.m 'medium-size gray mountain blueberry': +0+owqf.m 'small gray mountain blueberry'

We can even dispose of some of these: 1. changes its yowel a → sy by rule 2.3.3.8; 2. stress pattern may be  $\theta$ ' $\theta$ ' $\theta$ , (pointing to  $R_5$ - instead); 4. and 5. are just as plausibly analyzed as having -10- infix 'plural' (as in a number of other words) instead of -R1-; 6. has Ae and stress shifting anyway besides the fact that qweqweley could be an error for qwelqweley (-Ro or  $R_{\rm z}$ -) which is also attested; 7. has labialization and could have Aə of diminutive  $R_\mu$ - vowel (in sqfqəw $\epsilon\theta$ ); 9. could also be written as lo(w)qf.m: lo-lo(w)qf.m with R5- 'diminutive'. Only 3. and 8., with crystallized reduplication, are left with  $-R_1$ - of a  $\circ$  root (out of over 150 examples).

 $R_{\mbox{\scriptsize g}}\mbox{--}$  also has surprisingly few roots with  $\mbox{\scriptsize e}\mbox{.}$  Nine examples out of 25 have  $\vartheta$  as  $V_1$ , but six of these have ablauted the a to i (perhaps a motivation for this ablaut), while the seventh ablauts the  $\theta$  to  $\varepsilon y$ . This leaves only two examples (8. and 9. below) with a. 1. tés 'approach, get near': statís 'be near'

- 2. sq'ép 'a gathering': sq'eq'fp 'gathered'
- 3. peqW-at 'break s-th': spepiqW 'broken'
- 4. mélec'-meT-á·y0el 'mixed up in speaking': memílec'

'mixed up'

- 5. x wex we big fly: x wex iye ye 'housefly'
- 6. sx way for 'myth': sx wax wiy fm 'story, fable, tale'
- 7. sxéle 'leg, foot': sxexéyle 'legs, feet'
- 8. qemá· 'suckle': qeqemá· 'suckling'
- 9. t'éméls 'chop with axe': t'et'émels 'chopping; a chisel'

 $\rm R_{\tilde{2}}$  and  $\rm R_{4}$  have roots with any vowel as  $\rm V_{1};$  examples are so sparse for the other types, it is hard to tell for them, but all have at least some examples with  $_{2}$  and some with non-2 vowels as  $\rm V_{1}$ .

It seems that  $\rm R_2$  and  $\rm R_1$  could be allomorphs of one 'continuative' morpheme, or  $\rm R_2$  and  $\rm R_5$  could be allomorphs of 'continuative' and 'plural' morphemes; these allomorphs would be in complementary distribution depending on  $\rm V_1$  being e or not e, with a few morpheme-dependent rules to cover exceptions.

$$R_{1/2}$$
 'continuative'  $\rightarrow$   $R_1$  /(q'emás), (e'éx), p'éq'\_\_  $\rightarrow$   $R_2$  /  $V_1$  = e \_\_ (i.e. \_ \_ \_) or

$$R_{2/5}$$
 'continuative' and 'plural'

$$\rightarrow R_5 / \text{qemá·}, \text{t'éméls}$$

$$\rightarrow R_2 / V_1 = \circ$$

$$\rightarrow R_5 / V_1 \neq \circ$$
(i.e. \_ \_ \_)

Approaching reduplication from the semantic direction there is more predictability. From the tables at the beginning of this section it can be seen that 'pet name', 'verbal adjective' and 'comparative' are expressed by  $\mathbf{R}_1$  and no other type, 'eldest' (dubiously) by  $\mathbf{R}_3$  and no other type, 'distributive' by  $\mathbf{R}_5$  only, 'emphatic' by  $\mathbf{R}_7$  only, and 'person classifier' by  $\mathbf{R}_{10}$  only. In addition,  $\mathbf{R}_1$  conspicuously lacks the meaning 'plural' among the things it expresses,  $\mathbf{R}_3$  is almost exclusively 'plural', and  $\mathbf{R}_4$  is exclusively 'diminutive'. The semantic and sememic patterns in all this will be considered in more detail in the chapters on sememics and morphosememics.

2.5.13. Relationship of Reduplication to Ablaut. There are a number of similarities between reduplication and ablaut in Chilliwack and Upriver Halkomelem: the fact that both reduplication and ablaut cover 'continuative' and 'plural' (see the chapter on morphosememics),

the fact that several types of reduplication and all types of ablaut involve infixing, and the fact that several types of reduplication (like ablaut) involve adding vowels different from the root vowel or irrespective of the root vowel. These similarities in shape and meaning made it plausible to check into the possibility that reduplication and ablaut are allomorphs of a 'continuative' or a 'plural' morpheme.

Upon examination this possibility of allomorphy seems remote, for two reasons. One reason is the presence of examples with ablaut and reduplication simultaneously. The other reason is the presence of phonologically similar roots, one of which takes 'continuative' ablaut, the other of which takes 'continuative' reduplication; pairs of phonologically similar roots were also found in which one member has 'plural' ablaut and the other has 'plural' reduplication. Examples:

- 1.  $q^W \hat{\epsilon} \cdot 1$  'talk':  $q^W \acute{a} q^W \ni 1$  'talking' has Aa and  $R_1$  both 'continuative'
- 2.  $q^W \xi y e 1$  'turn yellow':  $q^W a q^W e y e 1$  'turning yellow' has both Aa and  $R_{\uparrow}$  'continuative'
- 3.  $k^{,W}$ és-''burned, scalded':  $k^{,W}$ é $\cdot k^{,W}$ es '(be) hot' has both Aa· derivational and  $R_1$  'verbal adjective'
- 4. k im-el get red': k ik enel 'getting red' beside
  'im-ex 'walk': 'i mex' walking'

- 5. líyém 'laugh': lé yem 'laughing' beside alternatives lévem 'laugh': léyleyem or líleyem 'laughing'
- 6. stf.wel 'neice or nephew': ststf.wel 'nephews, neices'
  beside sciwtéł 'child-in-law': scf.wetéł 'childnen-in-law'
- possibly 7. seék' 'straight': seeék' '(being) straight, stretched, pulled tight' beside eáq'em 'drip': eéq'em 'dripping'.

The most fruitful area for study of the relationship between ablaut and reduplication seems to be sememic and morphosememic. The relationship will be dealt with further in those chapters.

# CHAPTER 3. OUTLINE OF MORPHOLOGY

The morphology will be dealt with in chapters four through ten. These chapters will cover derivation and inflection of the Chilliwack and Upriver Halkomelem word classes: personal pronouns, verbs, particles, nominals, demonstratives, and numerals. Chapterfive on lexical affix sets will deal further with derivation, as will the chapter on morphosememics. The morphological chapters will include some information on allomorphy which belongs in morphophonemics (as mentioned in chapter two) and some information that belongs in morphosememics.

The ten sets of personal pronouns include subject affixes (preposed or suffixed), object affixes (suffixed), possessive affixes (some suffixed to previous word, some to the thing possessed, some to both), a different set of subject suffixes used with verbs prefixed with (we-} 'when; if' and with verbs preceded by negative verb {?śws} 'not to be', a different set of object suffixes for the 'passive voice', and five sets of independent word personal pronouns: verbal ('it's me' for example), nominal (like 'he' and 'her' in 'he hit her'), reduplicated emphatic ('it's me' is the only member), emphatic possessive ('ours, our own' for example), and independent object of prepositional verb. Interrogative pronouns belong rather in the

discussion of verbs (for example 'who (is it)?' and 'what (is it)?' are verbs). Subordination is shown through nominalizing the first word of the sentence or clause and then using possessive pronoun affixes to indicate the subordinated subject ('your seeing us is our want' -> 'we want you to see us'). Thus subordination will be discussed under personal pronouns. There are also several affixes which are attached to personal pronouns to inflect personal pronouns (ts-,\*\*s-, R7-, -bt). And there are two reflexive suffixes which can be added to verbs, {-lá·met} 'oneself' and {-(e)eet} 'for oneself, for itself'.

Verbs are affixed with lexical and derivation affixes before being affixed with personal pronouns and future tense (if applicable). There are several intransitive suffixes ( $\{-\varepsilon\cdot 1s\}$  and  $\{-e1\}$  are the most common). There are three main transitivizing suffixes. They do more than just transitivize; their function is more indicating control of the action. The three suffixes are  $\{-(e)T\}$  'do purposely',  $\{-1\}$  'do accidentally, happen to do, manage to do', and  $\{-sT\}$  'causative, cause s-o to do, make s-o do'.  $\{-meT\}$  is another transitivizing suffixe. After the transitivizers come object pronoun suffixes (including passive), then non-passive subject pronoun affixes, then future tense. Active voice is unmarked. Verbs are inflected

for two aspects: continuative and non-continuative. Non-continuative is unmarked: continuative is marked by ablaut or reduplication or in some cases by a prefix {hé- ~ hé-}. Verbs are sometimes inflected for plural object by reduplication  $\ensuremath{R_{\text{X}}}\text{--}$  and sometimes for 'diminutive', 'verbal adjective' and 'comparative' by reduplication of various types. Verbs can also be prefixed with {we-} 'when; if' and then they take a new, abbreviated set of subject pronouns. Verbs are sometimes suffixed with {-e} 'interrogative' before the subject suffix is added. However, the predominant interrogative is verb root {lí} which can be inflected for pronoun subject in the usual way. Other suffixes which can be considered inflections are the two reflexive suffixes mentioned above, and {-tel} 'reciprocal' and {-f·m} 'repeatedly': English adjectives, prepositions, adverbs, and even the negative are translated into Halkomelem as verbs and are so inflected. Probably a majority of nouns have verb roots at their base and are nominalized verbs roots with {s-} 'nominalizer'.

Nominals are derived by ablaut and lexical and derivational affixes, rarely by crystallized 'plural' or 'continuative' reduplication. The nominalizer par excellence is the  $\{s-\}$  prefix. This prefix is sometimes preposed (suffixed to the preceding word, usually to  $\{k^{,W}\}$  or  $\{k^{W}\}$ ) to nominalize subordinate

clauses or sentences. Another mark of nominals is a preceding demonstrative article {te, 0e, k<sup>w</sup>ee, k<sup>w</sup>e, k<sup>w</sup>e}, etc. Nominals can also be simple underived nouns. Nominals can be inflected for plural (most are not) by ablaut, reduplication or the {-el- - -le-} infix. Nominals can also be inflected for 'diminutive', 'pet name', and 'eldest' by reduplication. They can be inflected of course for 'possessive' by the possessive pronouns, and such inflection would follow any other nominal inflection done.

Particles are a small catch-all class of uninflectable words (conjunctions and modals (usually unstressed), interjections (which can be stressed) and perhaps some unstressed adverbials). There are other unstressed words (such as many demonstratives) which do not belong in this class. Particles, to give a sample, include; qe 'and, but, or', qes 'and', su 'so, then', qe(w) \_\_-e 'until', combinations of qe and k'á with su; t'we 'must', c'ɛ ~ e'ɛ 'it is said, they say', k'é 'anyway', 'iyá·lem 'can, could', yáswe 'maybe, perhaps'; qéléméxy' 'oh my goodness!', 'é·cele 'gee!, good grief!', léw 'say!, hello'; and perhaps adverbials like wel 'already' and xwel 'yet, still'. Others are listed in the chapter.

Halkomelem demonstratives exist in several sets. Some, often two words, serve as typical demonstratives ('this', 'that', etc.); some serve as demonstrative verbs ('be here', 'be there') which are the Halkomelem equivalent of adverbs: some serve as obligatory demonstrative articles which must appear with each nominal or nominalized phrase or sentence. The latter set of demonstratives consists largely of unstressed roots. which have a shape C1(C2)(a). These roots are inflected with possessive pronouns to show possession of the following nominal. When the following nominal is a nominalized phrase or sentence, the possessive pronoun indicates the subject of the phrase or sentence and must be followed by an -s nominalizer (for example. sk, wé(.)y 'it is impossible', k, abstract demonstrative'. -el 'my', -s 'nominalizer', k' "sc 'see'. -l 'happen to', -exw '3rd person object' → sk' ey k' els k, Weclex "I can't see (him, her, it, them)'). The demonstrative-article roots express 'presence/presence not specified', 'nearness' or 'distance', 'visibility' or 'invisibility/abstractness', and 'masculine/gender not specified' or 'feminine sex gender'. For example, {te} is 'the (present/presence not specified, visible, masculine/gender not specified)'. Some of these roots (like {te}) are single portmanteau morphemes, and some contain two morphemes. But every time a nominal is used one must choose a demonstrative root expressing the degrees of nearness and visibility and the gender.
'Generic' vs. 'specific' may also be involved. When used before names, demonstratives are not translated.
When the 'gender not specified' or the 'abstract' demonstrative root is used, it can be translated 'the'.

Numerals are based on the decimal system with traces of a quaternary influence in the stems under 'eleven' that can be derived. The major inflection for numerals is a set of 15 or so lexical suffixes. These suffixes could also be called numeral classifiers but for the fact that almost all of them appear with some non-numeral roots as well. The suffixes express things like 'o'clock', 'day of the week', 'times ten', 'people', 'times', 'trees', 'dollars', 'canoes', 'canoe paddles', 'houses', 'garments', and 'piles of things'. Some can be applied to numbers beyond 'ten', some stop at 'ten', 'nine', 'five' or 'two'. There are no ordinals, and only one sporadic distributive has been found ('four to each'). Numbers by tens are made by suffixing {-elsxy } 'times ten' to roots 'three' through 'nine'. Other numbers over ten are made up additively: 'eleven' is 'ten' + 'and' + 'the' + 'one', i.e., {?á·pəl qss tə léc'e}; 'ninetynine' is {tùx welsx f qes to tú x }. Twenty' {c'k' ox f - c'k' (xyx) may have {k' (xy) 'count' as its root.

{léc'ewec} 'one hundred' has root {léc'} 'be different' while 'two hundred' is merely 'two' + 'one hundred'. The other hundreds are formed on the same model. 'One thousand' is {'á'pel  $k^W$ s léc'ewec} ("ten hundred"), with the function of  $\{k^W$ s} unclear.

The chapter on lexical affix sets will present examples of the lexical affixes along with some morphological and semantic analysis. The discussion of semantics, sememics, and morphosememics involved will be largely reserved for chapters twelve and thirteen.

Lexical affixes in Upriver Halkomelem are very productive, very concrete semantically, and very interesting. For example, one set of suffixes covers body parts, and its suffixes are distinct in many cases from the independent words for the same body parts; body part suffixes are sometimes extended semantically to metaphorical uses, and they are widely used with verbs as well. Other lexical affixes do not form as coherent a set as do body part suffixes.

#±0. There are two reflexive suffixes and ten sets of personal pronouns in Chilliwack Halkomelem: independent pronouns (three sets), emphatic independent pronoun, subject pronouns, object pronouns (which follow the transitive control suffixes: purposive, accidental, and causative), possessive pronouns (two sets: affixed and independent (emphatic)), subject pronouns with {we-} 'if; when' and with auxiliary verbs after negative verb {76we} 'not to be', and object pronouns in the passive voice.

Subordination will be dealt with in a section on the use of possessive proncuns as verb subjects for: 'can', 'can't', 'want', 'think, feel emotionally', infinitives, verbs after question words, and verbs following and dependent on the first verb in a sentence.

avoid the long cumbersome gloss by using 'etc.' within the gloss. The variation in this set is all free variation between phonemic citations. Person is abbreviated '1', '2', '3' and number 'sg.' and 'pl.' 1 sg.  $\{? \ell 1 \theta \epsilon\} / ? \ell 1 \theta \epsilon / ~ / ? \ell 1 \theta \theta / 'it's me, I did, I'm$ the one that . I'm the one to ' 2 sg. {16we} /16we/ ~ /lúwe/ 'it's you, you did, you're the one that , you're the one to ' /k'á/ 'it's him, it's her, 3 sg. {λ'á } that's it, that's \_\_\_; he did, she did, it did; he's the one that \_\_\_\_, she's the one that \_\_\_\_, it's the one that \_\_\_\_, that's the one that \_\_\_\_; he's the one to \_\_\_, she's the one to \_\_\_, it's the one to \_\_\_\_, that's the one to \_\_\_\_'1 1 pl. {\frac{1}{1}mol} 'it's us, we did, we're the ones that \_\_\_\_, we're the ones to \_\_\_\_' 2 pl. {\pmulestyle=1 by 1 t's you folks, you folks did, you're the ones that , you're the ones to ' did, they're the ones that , they're the ones to '

These words are used all by themselves to answer questions like, 'Who's there?', 'Who made this?', or

<sup>1.</sup> This gloss could be abbreviated 'it's (him, her, it), that's \_\_, (he, she, it) did, (he's, she's, it's, that's) the one (that, to) \_\_\_'.

'Who wants to go?'. They are also used in sentences like: \(\frac{1}{2}\)wélep-ce lém. 'It will be you folks that go.' (the speaker may be dividing a group), and le sk'f.-s \(\kappa,\bar{1}\) es ?\(\epsilon\) es \(\kappa,\bar{1}\) es \(\epsilon\). 'He wants me to see it.', and le s-te?\(\epsilon\)-well ti-\(\kappa,\bar{1}\) k'\(\bar{2}\) es \(\epsilon\) es \(\epsilon\) es \(\epsilon\) in the one to go.', \(\kappa'\) es \(\epsilon\) es \(\epsilon\) in the leps you when he gets here.', and \(\kappa'\) a '\(\epsilon\) m\(\epsilon\). 'That's your father.'

4.2. Independent emphatic pronoun. For more emphasis  $\{{}^{2}\varepsilon^{2}\epsilon 1\theta \varepsilon\}$  // $\mathbb{R}_{7}^{-2}\varepsilon 1\theta \varepsilon$ // (/ ${}^{2}\varepsilon^{2}\epsilon 1\theta \varepsilon$ / ~ / ${}^{2}\varepsilon^{2}\epsilon 1\theta \varepsilon$ / can be used in place of  $\{{}^{2}\varepsilon 1\theta \varepsilon\}$  with the same meaning plus a little emphasis. This might be shown by the following exchange: "Who's there?"

"It's me." (?£10ɛ)
"Really?"
"It's me!" (?£?ɛ10ɛ)

4.3. Independent pronouns, set two. This set has a nominal function, as we can tell from the demonstrative article prefixes (ts-, tú-, and θú-) and the use and position of these pronouns in sentences (following the verb). This set is more common than 4.1 and 4.2 and is derived from those sets by prefixing ts- or, in the case of (\*\*á ) and (\*\*á\*lem), by prefixing tú'male/gender unspecified' or θú- 'female'. This produces the following set:

(note that this set has the same free variation and in verbal contexts the same system of glosses as the sets in 4.1 and 4.2)

- 1 sg.  $\{t\epsilon?\elll\theta\epsilon\}$  'I, me',  $\{t\epsilon?\ell?\epsilonl\theta\epsilon\}$  'I, me'
- 2 sg. {teléwe} 'you (sg.)'
- 3 sg. male {túλ'à } 'he, him'
- 3 sg. female {θúλ'à } 'she, her'
- 3 sg. gender unspecified {túk'à } 'it'
- l pl. {tslimel} 'we, us'
- 2 pl. {ts\wedlep} 'you folks, you (pl.)'
- 3 pl. male {túx'à·lem} 'they (male), them (male)'
- 3 pl. female {θúλ'à·lem} 'they (female), them (female)'
- 3 pl. gender unspecified {yuk'á·ləm} or {yúk'à·ləm}
  - 'they, them'
- 3 pl. gender unspecified but speaker knows them {?&.\text{tol}}
  'they, them'

The third person members of this set are especially frequent since the third person subject and object suffixes on verbs do not distinguish number or gender and since normal declarative word order is verb subject object. Some examples follow:

lém Gúx'à 'she goes' and lém túx'à 'he goes'
(By itself lém means 'he goes, she goes, it goes, they
go'. When talking about something without gender or
when it's not important to state the sex or one is not
sure, (túx'à ) can mean 'it'.)

Third person pronouns from this set can also be used to clarify the object of a verb. Since k'\*c-et-es means '(3rd person) looked at (3rd person)', the sentence k'\*c-et-es te swiyege means 'He, she, it, they, they (male), they (female) looked at the man.' (A lone nominal after a verb with 3rd person subject and 3rd person object is taken as the object.) To make it clear that a female is the subject ('she looked ...') you add the pronoun (eúx'à) in the subject slot (before swiyege). Halkomelem can even specify in the pronoun that the man looked at several females; this is done only with great awkwardness in English.

 $k^{1}$ %c-et-es to swiyeqo  $\Theta \hat{u} k^{2} \hat{a} \cdot l$ em. 'The man looked at them (female).'

If the man was not supposed to look at other women the following sentence might be next:

Further, the sex and number of both subject and object can be given with these pronouns.

k'
$$^{W}$$
Ec-et-es tú $^{A}$ 'à  $^{A}$ 'à . 'He looked at her.' VERB SUBJECT OBJECT 'he' 'he' 'her' her' they' (them'

In addition to the uses above, the pronouns of this set can be used to emphasize the subject. They follow the verb directly in such examples.

lém-cep telwélep. 'You folks go.'

lém-csp alone means 'you folks go'. Notice that in these cases there is also a subject pronoun (here -csp) attached to the verb as part of the verb word. So the set 4.3 pronoun is not really needed unless the speaker wants to emphasize the subject or clarify the third person subject or object.

4.4. Subject pronouns attached to verbs. This set is used largely with the first verb in a sentence. The third person pronoun differs in three ways. (Let Vi stand for intransitive verb and Vt for transitive verb.)

With Vi	With Vt	Before verb	<u>Translation</u>
-cel [dI]	-cel	cəl	'I'
-cəx <sup>W</sup> [čux <sup>W</sup> ]	-cəx <sup>₩</sup>	cəx <sup>₩</sup>	'you (sg.)'
nothing added	-əs	lə	'he, she, it, they'
-cet [dIth]	-cet	cət	'we'
-сер [čæp <sup>h</sup> ]	-сєр	сєр	'you folks'

Some examples will help make these clear:

lémcsp msyeáx<sup>y</sup>csp csp lém 'you folks go' 'you folks help me' 'you folks went'

Notice that putting the pronoun as a separate word in front of the verb tends to give the verb a past meaning (cel lém 'I went'). Less often the same combination is translated in the present however (cel lém 'I go'). The surest way of phrasing past tense keeps the subject pronoun before the main verb but suffixes it to an initial ('f':) 'past tense' auxiliary. Thus, 'f::eel lém or 'f:: cel lém both mean 'I went'. ('f:: may < 'f': 'be here' + -! 'past').

4.5. Object pronouns attached to active verbs.

These pronouns are attached to the verb after transitive control suffixes and before subject pronoun suffixes. As with 4.4, the third person affix has several alternates depending on what it follows.

After {-(e)T}	After {-1} 'do accidentally, manage to do, happen to do' or after {-sT} 'cause to		
'do purposely'	do, make s-o	do' Translation	
-áx <sup>y</sup>	-áx <sup>y</sup>	'me'	
-áme	-ámə	'you (sg.)'	
nothing added	-əx <sup>₩</sup>	'him, her, it, them'	
-álx <sup>w</sup>	-álx <sup>W</sup>	'us'	
<b>-á</b> lə	-álə	'you folks'	

It is important to note that these object pronouns only occur after one of the three: {-(\*)T} 'do purposely', {-1} 'do accidentally, happen to do, manage

folks walk'

to do', or {-sT} 'causative, cause to do, make s-o do'. These meanings are often not directly translated but are contained in the meaning of the verb itself. For examples, see below. //T//  $\rightarrow$   $\theta$  / \_ \_-áx $^{\overline{y}}$  'me', -áme 'you' (as seen in 2.4.3). As a result the combinations come out as:

	purposely	accidentall	y causative	
'me'	-eáx <sup>y</sup>	-láx <sup>y</sup>	-s⊖áx <sup>y</sup>	
'you'	-0ámə	-láme	-s0ámə	
'him, her, it, them'	-t	-ləx <sup>W</sup>	-stəx <sup>W</sup>	
'us'	-tálx <sup>w</sup>	-lálx <sup>w</sup>	-stálx <sup>W</sup>	
'you folks'	-tálə	-1á1ə	-stále	
Some examples will show these in action:				
mey⊖áx <sup>y</sup> cəx <sup>w</sup> 'you help me'	k' <sup>W</sup> əcláx <sup>y</sup> ə 'he sees		əx <sup>y</sup> s0áx <sup>y</sup> əs e makes me walk'	
msy0amócəl 'I help you'	k' <sup>W</sup> əclaməc 'we see y		əx <sup>y</sup> s0aməcəl make you walk'	
méytes 'he helps him'	k' ecléx con tolk him!		<pre>?iməx<sup>y</sup>stəx<sup>w</sup>cəl 'I make him walk'</pre>	
meytálx <sup>w</sup> cex <sup>w</sup> 'you help us'	k' <sup>w</sup> əclálx <sup>w</sup> əs 'he sees us'		'iməx <sup>y</sup> stálx <sup>w</sup> əs 'he makes us walk'	

'He' or 'him' here stands for third person. Notice rule 2.3.3.9 operating here to shift stresses.

sytalécet k'<sup>w</sup>eclalécel <sup>?</sup>imex<sup>y</sup>stalécel 'we help you folks' 'I see you folks' 'I make you

Examples of each type of verb control suffix will illustrate the types and meanings involved:

mevtalácat

Purposely	Accidentally	Causative
k, w cotes 'he looked at him'	k' w śclax was 'he sees him'	?f·wəsθàx <sup>y</sup> əs 'he taught me'
q'WeqWe0axyes 'he hit me intentionally'	q'WeqWláxyes 'he hit me accidentally, unintentionally'	?iməx <sup>y</sup> s0aməcəl 'I make you walk'
lic'et 'cut s-th'	lec'laxyes 'he cut me accidentally'	xet'eseáxyes 'he argued with me, maintain- ed to me'
pix wə dàx yəs 'he brushes me off'	sí·siláməcəl 'I scare you'	le <sup>?</sup> sméstex <sup>W</sup> es 'she took him, brought him'
k <sup>w</sup> £•tálx <sup>w</sup> əs 'he lets us go'	həq <sup>W</sup> làx <sup>y</sup> əs 'it smelled me'	<pre>%ystex wes 'he likes her'</pre>
t'ileme@axyes 'he sings it for me	lícx <sup>w</sup> słóq'əl·àx <sup>y</sup> 'do you know me?'	qélstəx <sup>w</sup> cəl 'I don't like it'
xə⊖'é⊖àx <sup>y</sup> 'push me'	lícx <sup>w</sup> pételàx <sup>y</sup> 'do you recognize me?'	?ax <sup>W</sup> əstálx <sup>W</sup> əs 'he gives it to us'
?əl?śliyəmə@amścəlcs 'I'll be dreaming of you'	licx til ax y 'do you under- stand me?'	
(?£•y 'keep on going')	°£•yələx <sup>W</sup> 'he's alive'	?&.ystex wes they're chasing them, etc.'

Note the instances of //l-l-áx $^y$ //  $\Rightarrow$  /l·àx $^y$ / according to morphophonemic rules.

A peculiarity of Halkomelem is that the combination of 3rd person subject (he, she, it, they) with 2nd person object (you, you folks) does not occur. So -6ámes, -táles, -lámes, -láles, -s6ámes, -stáles do not occur. A different set of endings (passive) or a different combination of words using pronouns from 4.1-4.3

must be used to express meanings like 'he hit you',
'they saw you folks' or 'she brought you'. For example,
the combination, λ'ácε θύλ'à mέyθàmò. 'It will be her
that helps you.' can be used instead of the passive.

4.6. <u>Possessive pronoun suffixes</u>. The interesting thing about this set is that not all of the suffixes are attached in the same place.

### Attached:

to word before to thing owned

{-əl} -əl ~ -l		'my'		
{-έ} -έ ~ -?έ		'your (one person's)'		
	{-s}	'his, her, its, their'		
	{-cət}	'our'		
{-έ} -έ?έ	{-elep}	'your, you folks''		
When what precede	s the thing owned	is a word ending in		
a consonant or a	vowel other than a	(λ'á , lí, 'í(·),		
and lis are espec	ially common), the	n allomorph -1 or		
-?é is attached f	or 'my', 'your' an	d 'you folks''; when		
what precedes the thing owned is a word ending in a				
allomorphs -el and -é are attached. Notice also that				
the 2nd person plural possessive requires two morphemes,				
the 2nd person $\{-\hat{\epsilon}\}$ and the pluralizer $\{\text{-elep}\}$ . Examples				
tel mé·l 'my father', k'ál méle 'that's my child'				
θέ tέ·l 'your mother', tέ mέ·l 'your father'				
to mé·ls 'his/her/its/their father'				
tə mé•lcət 'our f	ather'			
té mé•lələp 'you	folks' father, you	r (pl.) father'		

Since the word preceding a nominal is usually a demonstrative article (to, 0o, so, kwso, kwoo, or k, wo), possessive pronoun suffixes are usually attached to them. The suffixed pronouns are the ordinary way of showing possession. For example: ?ax weseax yes tel mé · l te so weméys. 'My father gave me

4.7. Independent possessive pronouns. These are constructed by using the morpheme (swé) 'own (?)' as a noun stem and inflecting it with the previous set of possessive pronoun suffixes. Thus:

(e)1 swé

'mine, my own'

?É swé

his dog.'

'yours, your own (sg.)'

swés 'his, hers, its, their, his own, her own, its own, their own' swécet ~ s?á± 'ours, our own'

?έ swέ?ələ́p

'you folks', you folks' own, yours (pl.), your own'

#### Examples:

λ'ál swé 'that's mine', (a)l swé mémala 'my own children' ? swece 'it will be yours'

h'á swés 'that's his/hers/its/theirs'

λ'á swécet 'that's ours', λ'á s'ál 'that's ours'

λ'á ?έ swé?elép 'that's yours (you folks')'

Apparently swecet and soat are in free variation. The independent set has more emphasis in meaning than the suffixed set of possessives and can also occur

alone as a complete answer to a question or preceded only by {\kappa'\delta}. Thus an answer to, tow\(\epsilon\) to \$\sq\^\epsilon\) might be, (e) I sw\(\epsilon\). 'Mine.' or, \kappa'\delta sw\(\epsilon\). 'That's mine., He's mine., etc.' The emphatic use is shown in the following: '\(\frac{\psi}{\psi}\) wost\(\delta\) and, \(\kappa'\) a sw\(\epsilon\) to \$\frac{\psi}{\psi}\) m\(\epsilon\) father taught us.', and, \(\kappa'\) a sw\(\epsilon\) to that teaches us.' k;\(\psilon\) so '\(\frac{\psi}{\psi}\) wost\(\delta\) a vertather that teaches us.'

4.8. Subordination using possessive pronouns.

This special use of pronouns of set 6 occurs in examples like:

- b.  $sk^{,W} \xi y k^{,W} \theta s k^{,W} \theta can't see you.'$
- c. sk, wéy k, w-é-s lém-ələp. 'You folks can't go.'
- d. sk, wey-a k, w-al-s k, weclexw? 'Can't I see it?'
- e. lúw ?iyáləm k, w-əl-s k, weclex w. 'I can see it.'
- g. lúw ?iyáləm k' -əl-s lém. 'I can go.'
- h. lí 'iyáləm k', -əl-s lém' 'Can I go?'
- i. ? we lis ? sk'fy-elep. 'You folks don't want it.'
- j. we-lis-1 sa'i 'if I want it'

- k. ?awas lis-l sh'i 'if I don't want it'
- 1. ?f.tcax sef.qel k, -f-s ?f.t lfyem. 'You were laughing loudly.'
- m. ?όwə lís-l sk'í k'<sup>W</sup>-ε-s líyém. 'I don't want you to laugh.'
- n. x w o ff.t-76-s ? 6 wo t q w 6 l s e a x y ? 'Why don't you speak to me?'
- o. sh'f-cet k'"-f-s k'" clalx". 'We want you to see us.'
- p. ?6wə lfs-l sq  $^{W}$  £1əwəl k;  $^{W}$ -£-s l£m. 'I don't think you should go.'
- g. təmtém k, W-é-s lé Oíyt? 'When did you make it?'
- r. le sk'f-s k''W-el-s k''Wéclex W ee stáles-s k''We-s
  efyeq W-t-s te sérq. 'He wanted me to see his wife
  digging fern roots.'

The problem is only that the translations given here are not strict translations, word for word: Strict translations of these sentences are too awkward in English but show the Halkomelem way of thinking about them more clearly. Thus the first example could perhaps be translated 'It is impossible my happening to see it.'

('I can't see it.'):

 $sk^{,w} \mathcal{E}_y$   $k^{,w}$  -el -s  $k^{,w} \mathcal{E}_c$  -l -exw; it is impossible the my noun see happen to it (obj.) This construction is the standard way of translating 'can't' (that is, using  $s^{,w} \mathcal{E}_y + k^{,w} + possessive$  pronoun suffix + -s nominalizer + verb without subject affix).

Notice the -s after the pronoun in all the examples.

This -s makes the verb which comes after it into a nominal. To show this change in an English translation is very awkward: we must use 'my sight of it' or 'my seeing it'. Once the verb is nominalized it can be possessed and have a possessive pronoun. It also needs an article, as discussed above. However, with these verbs made into nominals, the only article allowed is k'we 'abstract demonstrative' (I have not found examples like 'sk'wey tels k'we(lex'). As we shall see in the chapter on nouns, an s- is frequently attached to verbs elsewhere to form nouns (thus t'f'lem 'to sing' becomes s-t'f'lem 'song'). That may have been the case here too, but most of the time with this special use of pronouns, the /s/ is pronounced at the end of the pronoun.

The other examples in a. work like the first example, as do b., c., and d. For example, d. is more literally 'Is it impossible, my seeing it?' (or considering the verb subject object word order, 'Is my seeing it impossible?'). Examples e. through h. use 'iyálem 'it is alright, possible', so that f. could be translated more closely by 'My eating was alright.' This is apparently the standard way of expressing 'can'. As a result, both 'can' and 'can't' require this type of construction.

Examples i., j., k., m., o., and r. show that 'want' usually requires the possessive construction too.

For example, m. could be translated 'Your laugh is not my want.' and thence 'I don't want you to laugh.' Notice the two possessives in this one. When English uses an infinitive ('to' followed by a verb), Halkomelem usually uses the possessive pronouns as here. The person shown as possessor is the person who would actually be doing the action. Thus 'I don't want you to laugh.' is thought of as 'Your laugh is not my want.' Example r: also shows this: le s-k'f-s k'W-el-s past noun want his the my noun abstract

.....his want was ....my.....

k; we -1 -ex 99 s- tá:les-s k; we -s see happen to her the noun wife his the noun female abstract present

happening to see her ......his wife....

Oʻyoq t-s to sé·q.

dig it her the bracken fern root.
(obj.) pres.
unspec. gender

her digging it .the bracken fern root.

'He wanted me to see his wife digging bracken fern roots.'

The special use of possessive pronouns of set 6 also occurs after question words as in example n., 'Why is it, your not speech to me?' and example q., 'When is it, your past making it (action not continuing, -ing to show nominalization only)?'. And this use also occurs with every verb dependent on the first verb and following it in the sentence. Thus example 1., 'You were loud, your

past laughing.', example p., 'It is not my thought, your going.', and others. It can be seen then, in summary, that the suffixed possessive pronouns of set 6 are used as verb subjects for: 'can', 'can't', 'want', infinitives, verbs after question words, and verbs following and dependent on the first verb in a sentence. All are very common, and there may be other uses as well.

4.9. Subject pronouns with we- 'if; when', and with verbs after negative verb ? we 'not to be'.

	After auxilia ending in /i			y verb
'I'	-€1	-1 in	líl or	?fl
'you (one person)'	-ex <sup>₩</sup>	$-x^{W}$	$lfx^W$	$^{\circ}\text{Ix}^{\text{W}}$
'he, she, it, they'	-es	-s	lís	?is
'we'	-et	-t	lít	٦ít
'you folks'	-elep ~ -€p	-p	líp	۶fp

It appears that this set of pronouns is used when there is doubt, uncertainty, or negation (something has not happened). Some examples will show how they are used.

we-lêm-êl 'if/when I go'

we-lém-ex 'if/when you go'

wə-lém-əs 'if/when he/she/etc. goes'

wa-lém-at 'if/when we go'

wa-lem-alap 'if/when you folks go'

? śweczp lźm-źp q'á·θet. 'You folks don't go mix with them.'

- yá·swe we-lém-èl. 'I might go:, I don't know if I could go.'
- yá·swe we-sk'\*éy-es k'\*-el-s lém. 'I don't know if it's impossible for me to go.'
- ?Swecel lém-El. 'I don't/won't go.'
- ?SwacaxW l&m-axW. 'You don't/won't go.'
- ?śwe (k, W-s) lém-es. 'He/She/It doesn't/won't go.,
  They don't/won't go.'
- ?Swecet lém-et. 'We don't/won't go.'
- ?έwacεp lém-alap. 'You folks don't/won't go.'
- ? wecel sc'elex em-&l. 'I'm not a spirit dancer.' (cp. alternate below)
- ?Swacax sc'alex am-ax . You're not a spirit dancer.
- ?6wə sc'əl£x<sup>W</sup>əm-əs. 'He/She is not a spirit dancer., They're not spirit dancers.'
- ?Swecet sc'eléx em-et. 'We are not spirit dancers:'
- ?éwecep sc'eléx em-ép. 'You folks are not spirit dancers.'
- ?ew&\perptool s\particle 'I wasn't a child.' (less common)
- ?ew&fcel lf.1 sk'ik'eqet. 'I wasn't a child.' (more common)
- ?éwacal lf·l sc'aléx wam. 'I'm not a spirit dancer.'
- cex meyeax ky wels ? we(cel) liyem-£1. 'You helped me not to laugh.'
- cex msytálx k, s ? éwect líyem-et. 'You helped us not to laugh.'
- cel méyt k' es ? ewes liyém-és. 'I helped him not to
- cel méytale k''s ?éwep liyém-elép. 'I helped you folks

not to laugh. ck, Wey k, Was meytalx ws welfmet sou'tale. 'He can't help us find you folks.' 25wa shifs ki was mevtálx ws welémet sógitala. 'He won't or doesn't want to help us find you folks: véGes-cex te swíyege we-?emé-st-ex -es ee stá·les-s. 'You ask the man to bring his wife.' we-temx&y\* '-es 'when it is winter, in wintertime' licx stag al a walém-as-ce? 'Do you know if he'll 2021 (Occasionally the e is dropped from -cex w. -cet, -es and a few other suffixes: see stress rules:) Examples with auxiliary verb li ~ li: ?awacal 161 k'fls@ama. 'I don't like you.' ?&wecx lix h'fls@ax 'You don't like me.' ?Swe lis \*'fls@ax es. 'He/She/etc. doesn't like me.' ?Swacat litt %'flstala. 'We don't like you.' ?Swecep lip \* fls@axy. 'You folks don't like me.' ?awa lis l sa'i. 'I don't want it.' we-lis 1 sk'i 'if/when I want it' ?Swecep liop dwelstalxw. 'You folks didn't speak to us:' ?śwa lis vé0as021am. 'I wasn't told.' ?awé lis yé@astalam? 'Weren't you folks told?' ?śwecel lf.l lém. 'I didn't go.' ?Swect litt lim. 'We didn't go.' ?śwect li.t sté.x et. 'We're not children.' ?awés lis sk'icet 'if we don't want it'

le sq welewel kwses ? wes lfs ?iyá·lem k'wels lém.
'He thinks it's not alright for me to go.,
He thinks I shouldn't go.'

## Examples with auxiliary verb ?f ~ ?f.:

x we we cel ?f.l x w siya.lex w. 'I'm not old yet., I haven't become old yet.'

xwowscxw ?ixw xws siyá·lexwe. 'You're not old yet., etc.'
xwows ?is xws siyá·lexwe. 'He's not old yet., etc.'
xwowsct ?i·t xws siyá·lexwe. 'We're not old yet., etc.'
xwowscsp ?i·p xws siyá·lexwe. 'You folks aren't old yet.,
etc.'

stém te ?fxw kwelé·t? 'What is it you're holding?'
stém te ?fxw 66·yt? 'What are you making?'
?ewélcel ?f1 sk'fk'eqel. 'I wasn't a child.'
stém k'we ?fxw k'we sf·simet? 'What are you afraid of?'
tewét k'we ?fxw 0éyelcet té swéltel? 'Who are you making your fishnet for?'
xwexécxw ?f.xw 0²0°flem. 'You're not ancient yet.'

xwawscxw of xw qooollam. 'You're not ancient yet.'
xwawscxw of xw tatela met. 'You don't understand yet.'

4.10. Object pronouns in the passive. These are used when the person involved in an action is not doing the action but having it done to him. And the person doing the action is never stated in the verb itself: As with the object pronouns in 4.5, the object pronouns here must follow the transitive control suffixes {-(e)T} 'do purposely', {-1} 'do accidentally, happen to do, manage to do', or {-sT} 'causative, cause to do, make s-o do'.

The passive object pronouns are:

-£13m 'I'

-à·m 'you (one person)'

-em 'he, she, it, they'

-álx<sup>W</sup>əs 'we'

-alam 'you folks'

There is actually no passive for 'we', so the -alxwes from set 5 serves instead, literally 'he/she/it/they (did s-th to) us'.

The Halkomelem passive is translated as in English examples such as 'I am told', 'we were sent' and 'you'll be seen'. But it is also translated often with an impersonal third person subject. Thus 'A'Oà'm 'you are called, you were called' can also be translated, 'he called you, they called you'. This is expecially true when 'you' or 'you folks' is the object since they never occur with a third person subject in set 5: So passive forms often substitute. A final translation of the passive is a sort of middle voice when in third person; this is found most often in the verbal adjectives, but also elsewhere.

## Examples with {-(a)T} 'do purposely':

?á.Ə≿ləm 'I was called'

?á·θà·m 'you were called'

?{\stem 'he/she/it was called, they were called'

?á·tàlx was 'we were called'

```
?á·tàlòm 'you folks were called'
le méyeèlèm 'I was helped'
le mέyθà·m 'you were helped'
le méytem 'he, etc. was helped'
la meytálx was 'we were helped'
19 méytalam 'you folks were helped'
ກຳພລຄະໄລ່ຫ 'I'm frozen'
pf.we0à.mcs 'you'll get frozen'
pf.wetalemcs 'you folks will get frozen'
v, Wory €. Ω≥1 am 'I'm counted'
le k, wex, f. eà.m 'you're counted, he counted you'
10 vys.k, Waeklam 'I was bathed'
le lic'eOblèm 'he cut me. I was cut'
k, wik, wax yatam 'he, etc. is named'
Examples with {-1} 'do accidentally, etc.':
k, Wáclělám 'I was seen'
k, wola m 'you were seen, he saw you'
k, Waclem 'he, etc. was seen'
k, Waclalx was 'we were seen'
k, wsclalam 'you folks were seen, he/they saw you folks'
 ±6c'là·mcɛ 'you'll get cut'
 hi.lem 'it fell'
 k, Weclà mcs to spé · O 'the bear will see you'
 Examples with {-sT} 'causative, make s-o do, etc.':
 sk wetex wstem 'they were brought inside'
```

```
?áx westem 'he was given s-th'
xát'esea.m 'you were told'
?£ys0≿lòm 'I was liked'
?évs@à·m 'you were liked'
'éystem 'he, etc. was liked'
?£ystàlx we were liked'
?évstàlàm 'you folks were liked'
?śwa lis vá@as@člam 'I wasn't told'
?śwa lis yścasca 'you weren't told'
?awa lis yaeastam 'he, etc. wasn't told'
?awa lis yabastalam 'you folks weren't told'
     When a passive is the first verb after a negative
or sk, wev k, wes ('impossible' or 'can't') add (-bt) to
the end of the passive object pronoun. Thus:
with -T with -l with -sT
-Oèlàm-àt -lèlàm-àt -sOèlàm-àt 'I'
-⊖àm-àt
           -là•m-èt
                     -s⊖àm-òt
                                  'vou (one person)'
-tàm-àt
           -lom-ot -stom-ot 'he, she, it, they'
-tàlàm-àt -làlàm-àt -stàlàm-àt 'you folks'
(-álx wes isn't a true passive so
     ->t is not added)
                                   twet
```

Examples:

sk, wéy k, wes méyeèlèmèt 'I can't be helped' sk, wey k, wes meyeamet 'you can't be helped' sk, wey k, was meytamat 'he/she/it/they can't be helped' sk, wéy k, was méytalamat 'you folks can't be helped'

sk, wéy k, we maytálx we can't be helped, they can't help us'

sk'<sup>W</sup>Éy k'<sup>W</sup>əs k'<sup>W</sup>ốclèlèmèt 'I can't be seen' sk'<sup>W</sup>Éy k'<sup>W</sup>əs k'<sup>W</sup>ốclèmèt 'you can't be seen' sk'<sup>W</sup>Éy k'<sup>W</sup>əs k'<sup>W</sup>əclèmèt 'he, etc. can't be seen' sk'<sup>W</sup>Éy k'<sup>W</sup>əs k'<sup>W</sup>əclélx<sup>W</sup>əs 'we can't be seen, they can't see us'

sk'<sup>W</sup>éy k'<sup>W</sup>əs k'<sup>W</sup>éclàlàmàt 'you folks can't be seen'
sk'<sup>W</sup>éy k'<sup>W</sup>əs q<sup>W</sup>éls⊖làmàt 'I can't be spoken to'
sk'<sup>W</sup>éy k'<sup>W</sup>əs q<sup>W</sup>éls⊖làmàt 'you can't be spoken to'
sk'<sup>W</sup>éy k'<sup>W</sup>əs q<sup>W</sup>élstàmàt 'he, etc. can't be spoken to'
sk'<sup>W</sup>éy k'<sup>W</sup>əs q<sup>W</sup>əlstálx<sup>W</sup>əs 'we can't be spoken to, they
can't speak to us'

sk' wéy k' was q wastalamat 'you folks can't be spoken to' rawate sk iyaytamat. 'Nothing could be done.'

?ewéte  $k^W$ s  $k^W$ əté $x^W$ emət. 'Nothing was inside.' ?ewétel sləq'éləmət tə s $k^W$ í $x^Y$ s. 'Nobody knows his name.'

Wiyá0  $k^W$ s wecésetémet  $k^W$ s léms  $x^y 4 \cdot k^{yW}$ em. 'He was always told to go bathe.' (may show ->t required by {we-} 'when; if')

sk, we k, we s x leif. ms tuk, a k s les xexewetemet welemes
e'x e.sem. 'He wouldn't listen to being warned not
to go wash his face.'

```
tional verb'. {\\ \alpha'-- \lambda'\e-- \lambda'\e-- \rangle \\ \earthcap = - \lambda'\earthcap = - \lambda'\
      independent proncuns of set 4.1 and 4.2 but only to
      the first or second person pronouns. This produces
       the following set:
      /+ 10? £100/ $ /+ 20 £ ? £ ? £ 10 £ / ~ (Cheh.) / + 20 £ 10 £ / me'
      /lalawa/ 1 /k'lawa/ 'vou'
       (/tufk'à/ 'him', /0úk'à/ 'her', /yuk'álom/ 'them',etc.)
      /h'slifmel/ f /h'ellimel/ 'us'
      /k'słwélep/ ~ (Cheh.) /k'słléwep/ 'you folks'
                      This set is used after verbs translated as pre-
       positions in English: the pronouns are the objects
       of the prepositional verbs. Thus:
       stetis *'e?é?el0e 'near me'
                                                                'near you'
       statis k'lewa
                                                                'near us'
       statis * allimal
       stetis *'sawelep 'near you folks'
       statis vie 'near them (those people)'
       statis to t'amel 'near the wall'
        micx w statis k'e' & eles 'come near me!, you come
                 close to me'
         le wélx yes to sq'émél stetis x'e élee. 'He threw
                 the paddle near me.'
         le xe0'étes te sq'émél telí k'e'él0e. 'He pushed
                 the paddle away from me.'
```

(lálec'e telí tellímel 'one of us (one person from us)'
may be a contrasting case if not mistranscribed.)

This set however is relatively infrequent; AC gave only the seven examples above with {x'(\*)-}.

Besides these examples, AC also gave the more common alternatives stetfs@axy 'near me', stetfs@ame 'near you', etc., which add the {-T} transitivizer ('do purposely to something') and the object pronouns (set 4.5).

It seems that the  $\{\lambda^{\bullet}(\cdot)^{-}\}$  forms are merely an alternative way (less common than 4.5) of expressing pronoun objects of prepositional verbs. The  $\{\lambda^{\bullet}(\cdot)^{-}\}$  is prefixed to sets 4.1 and 4.2 to form 4.11, like the demonstrative article /tə/ - /tə/ is prefixed to 4.1 and 4.2 to form set 4.3.  $\{\lambda^{\bullet}(\cdot)^{-}\}$  even has the allomorph  $\lambda^{\bullet}(\cdot)^{-}$  parallel to the te- in 4.3. Set 4.11 is replaced by demonstrative article + noun whenever a noun is the object of the prepositional verb (stet1s to t'âmel 'near the wall', stet1s to xâce 'near the lake', etc.).

Work with EB from Chehalis, B.C. and other speakers of Chilliwack, Chehalis and Tait dialects confirmed AC's examples and showed the  $\{\lambda^*(\circ)-\}$  construction with a few more prepositional verbs: telf 'from, away from' (usually in the form /tlf/[tlf]),  $x^W\text{el} \in -x^W\text{el} \in$ 

'from, (coming) from', sq'á '(together) with', 'á '(along) with'. For example: kWites t(a)lf %'6'eles 'he took it from me' kwútes t(e)lí k'léwe 'he took it from you' kWittes t(a)li k'slimel 'he took it from us' kwites t(e)li tuk'à 'he took it from him' ?axwestcexw xwele(m) h'erelee 'you give it to him from me, give it to him from me!' (sic) ?áx westcex weik'a x wels(m) h'(e)lewe 'you give it to her from you, give it to her from you!' (sic) (EB translates x welf(m) as 'from' here, but it is really 'toward', here best translated '(intended) for'.) mís sq'á λ'έ'ειθε 'he came with me' (beside this is the equivalent sq'aq'ama0axy 'together with me') met ve sq'á k'é?sl0s 'come along with me!' ?fstex cex ? ? A ? £ ? £ 10£ (in more rapid speech: ?fstar wcx wa \* '£' 2102) '(you) leave it here with me(!)'

The benefactive, (-e±c), is another inflection that relates to pronouns, but it precedes the control suffixes and is best considered in the chapter on verbs.

# 4.12. Derivation of personal pronouns.

The following page has a chart comparing the forms of the personal pronoun sets.

							(88)					
Pass. obj.	4.10	-è1èm	-à.	W 0	ditto	ditto	(-álx <sup>W</sup> es)	-ձ1ծա	E0	ditto	ditto	
Subj.	4.90	7	-хмд∙ш	<b>Β</b>	ditto	ditt	4	Ę,	8	ditto	ditto	
Subord, Subj. F	4.9a		»×e-	80-	tto.	tto	ţ.	190	198 E	ditto	ditto	
Poss. emph.		el awé	PE BWÉ	вмев	ditto	ditto	flx <sup>w</sup> -cet sweet -e	e swerelep	swés	di.tto	ditto	
Poss.	4.8	-01		α	ditto	ditto	-cet	-e -elep	8	ditto	ditto	
Obj.	4.5	-éx³	-éme	<sub>w</sub> xe-~ø	ditto	ditto	-élxw	-£1e	Mx00	ditto	ditto	
.tqng	4.4	-cel	-cexw	8eø	ditto	ditto	1001	сер-	800	ditto	ditto	
		p	refi	.xed	to	set	ts 4	.1	and	4.2	2	
Obj. prep.	4.11	7,6-	refi	tų-	-γю	tıl-	7.0	ָּבְּאָ פּרָ	tu-	-ne	r L	
Indep. Obj. nom. prep.	4.3	te 1q	efix	ed ti	to -ую	set:	s 4.	la L	nd P	4.2. 100	-n.	76.±tel
Indep. Indep.	4.2	? <b>£</b> ?E1θE	efix						_	_	=	
Indep.	4.1	sg 1 7£10ε	2 1 <b>6</b> we	3m ⊁'a€ g	ııma	3un k's a	- m	2 ±w6lep	3m <b>₹¹á¹</b> 1em	3f <b>λ¹á∙</b> lem	Jun 206-10m	
		sg 1	~	3m	3£	3un	pl 1	N	3m	3£	3nn	3ku

(3ku means "third person known to speaker but gender unspecified") (animate means "used with animate nominals only") (Jun means "third person gender unspecified")

There are clear similarities between sets of personal pronouns in Halkomelem. These similarities are synchronic derivation to the extent that the native speakers go through a process mentally of building one set or set member from another. They are diachronic derivation to the extent they are not built by the speaker but accepted as already made. Without making immediate judgements as to which type of derivation is involved, the following similarities can be seen:

### 4.12.1. Independent group.

Set 4.2 derives from 4.1 by reduplication R<sub>7</sub>.

Set 4.3 derives from 4.1 and 4.2 by prefixing
te- to first and second person forms, tu- to third
person forms for masculine or unspecified gender, Guto third person forms for feminine gender and yu- to
third person plural forms for plural unspecified gender. The form {?\(\ell\).\(\frac{1}{2}\).\(\frac{1}{2}\) for 'third person plural familiar to speaker, gender unspecified' has a root of
unclear origin; it probably has -tel 'reciprocal' to
indicate the speaker knows them and vice versa.

Set 4.11 derives from 4.1 and 4.2 by prefixing  $\star$  2. -  $\star$  7(e)- to first and second person forms. The third person forms are taken from 4.3.

Notice the initial laterals in each member of

4.1: sg. 1 or 2 (-)1-

pl. 1 or 2 1-

3rd person \*'-

If these laterals represent or once represented a morpheme, it is difficult to establish. They do seem to show membership in the set.

Notice also in 4.1 (and derived 4.3 and 4.11)
the pluralizing infix {-l- ~ -el- ~ -le-} in all plural forms:

- 1 pl. 1-1-imet
- 2 pl: 1-w-61-ep
- 3 pl. \*'-á·-le-m.

The Chehalis dialect has 2 pl. {\pm 16wep} which may derive through metathesis from {\pm 4w61ep} by analogy with 2 sg; {\pm 16we} and the \pm 1- in 1 pl. {\pm 1fme}, or the reverse may be true with {\pm 16wep} < \pm 1- set prefix + 16we '2 sg.' + -p '2 pl.' as in 4.9b, leaving the Chilliwack form \pm w61ep derived by metathesis from the older Chehalis form (by analogy with -elep in 4.6 or 4.9a).

Finally notice some similarities between 4.1 (?£106) and other 1 sg. forms: 4.9 -£1 ~ -1, 4.10 -£10m, 4.6, 4.7 and 4.8 -e1, and 4.4 -cel. 4.12.2. Subject group.

Set 4.9b has the consonantal roots from which

4.4, 4.6, 4.7, 4.8 and 4.9a all ultimately derive.

Set 4.9a may either derive from 4.9b or vice versa. Within 4.9a, the  $\varepsilon$ - in 1 sg.  $\{-\varepsilon 1\}$  possibly was influenced by 4.1  $\{?\varepsilon 1\theta\varepsilon\}$ . The  $\varepsilon$ - in 2 pl.  $\{-\varepsilon p\}$  possibly shows influence of the second person  $-\varepsilon$  in 4.6, 4.7, and 4.8. The  $\vartheta$ -1 in 2 pl.  $\{-\vartheta 1\varphi\}$  may be the plural infix  $\{-\vartheta 1-\}$  seen above and also used with nouns.

Set 4.4 derives from 4.9a minus  $\varepsilon$  in 1 sg. and using  $\varepsilon$  from 2 pl. alternate -sp. In addition, nonthird person forms all have a {c-} prefix which could be either a) 'active mood' (neither passive, negative, dubitative, nor subordinate), b) 'participant in the conversation', or c) 'non-third person'. The third person { $\emptyset$ } is perhaps an innovation in line with a language universal dealing with the frequency of  $\emptyset$  as a marker of 3rd person subject.

Set 4.6 (and so 4.8) derives from 4.9a minus 1 sg.  $\epsilon$ , plus extending  $\epsilon$  2 pl. to  $\epsilon$  2 sg. and 2 pl. and marking pl. with 4.9a 2 pl. (-elep).

Set 4.7 derives from 4.6 using sw& (meaning unknown unless 'emphatic', probably also has s- nominalizer) as noun root.

Set 4.1 2 pl. {\pmsi = p} may derive from 4.9a -elep plus a root w- and set prefix \pmsi -. 2 sg. w could relate

to 4.9b  $-x^W$ ; the 2 sg. w may then have influenced or spread to 2 pl. w in  $\{\pm w \pm 0 = p\}$ . These are merely possible lines of development or influence.

### 4.12.3. Object group.

Set 4.5 purposely has little resemblance to sets in the two preceding groups because it must be quite distinct to function; the only similarity seems to be that 4.4 and 4.5 both have a third person  $\{-\emptyset\}$ .

Set 4.10 derives from set 4.5 by addition of -(e)m and pitch shift to ` on all suffix vowels except in third person. The derivation is as follows: 4.10 2 sg. -à·m < 4.5 2 sg. -áme + `-m (> -àmèm > -à·m)

- 4.10 3rd person -em < 4.5 3rd person -Ø + -em
  4.10 1 pl. -álx es is overtly 4.5 1 pl. -álx plus
  3rd person subject -es from 4.4
- 4.10 2 pl. -àlàm < 4.5 2 pl. -ála + `-m
  4.10 1 sg. -èlàm has `-em applied possibly to 1 sg.
  root -él from 4.9a; it therefore seems derived
  from a root outside of set 4.5.
- 4.15. Distribution of personal pronoun affixes (what they can be attached to).

Personal pronoun sets 4.1, 4.2, 4.3, 4.7, and 4.11 are not affixes and so cannot be affixed to any other Halkomelem word class.

Set 4.4 can be suffixed to set 4.5 pronouns, to verbs, to particles which have auxiliary verb features (i.e. {me<sub>1</sub>} 'come to pass, come to happen', {le} 'inceptive, go'), to nominals (which then lose any preceding demonstrative article and function as stative verbs, as in //x<sup>M</sup>élméx<sup>M</sup>-cel// 'I am an Indian'), to numerals with person classifiers (//yéysele-cet// 'we are two people, there are two of us'), and possibly (but unattested) to verbal demonstratives:

Set 4.5 can only be suffixed to transitive verbs.

Set 4.6 can be suffixed to nominals, to demonstratives and probably to classified numerals.

Set 4.8 can be suffixed to set 4.5 pronouns, to nominals, to demonstratives; in third person and in plural set 4.8 members can be suffixed to verbs, and in second person and first person singular set 4.8 members can be suffixed to interrogative verbs.

Set 4.9a can be suffixed to set 4.5 pronouns, to verbs, to nominals (which lose preceding article to function as stative verbs), probably to inflected or classified numerals, and possibly to verbal demonstratives.

Set 4.9b can be suffixed only to auxiliary verbs  $\{?f(\cdot)\}\$  and  $\{lf(\cdot)\}\$  as described in 4.9.

Set 4.10 can be suffixed only to transitive verbs

as a passive but as a middle voice can be suffixed also to intransitive verbs.

#### CHAPTER 5. LEXICAL AFFIXES

5.0. Lexical affixing is widespread and very productive in Upper Stalo dialects of Halkomelem and is the principal means of word derivation. Most of the lexical affixes in these dialects are suffixes—over a hundred lexical suffixes have been found so far. In contrast, there are only a handful of lexical prefixes (only 13 have turned up to date) and no lexical infixes (reduplication is inflectional in meaning and function, and ablaut types which are derivational do not add recurring lexical meanings). New affixes are still coming to light, so the sets given here are probably an incomplete collection.

In the sections following, first the lexical prefixes will be given with examples, then the lexical suffixes with examples. Lexical suffixes can be subdivided in several ways: a locative set which refers to parts of the body (somatic suffixes), a set which can be used with numerals (where it has the function of numeral classifiers, although half of its members can also be used with nouns and verbs), other lexical suffixes, and marginal cases.

It is pointless to divide lexical affixes into those that can be added to nominals, those that can be added to verbs, etc. because most can be added to several different syntactic or semantic classes. It is also not very productive to divide lexical affixes into sets which nominalize, which verbalize, or the like because most often these affixes do not change the word class of the stem; only a few examples have been found of lexical affixes nominalizing, etc. (for example, lex's- 'a person that always (X)es, a person that's always (X)ing'; téy 'to cance-race' + -owel'cance' > téyowel' a cance for racing, a race cance'; and cák' 'be distant' + R<sub>1</sub> 'continuative' + -á·les 'in the eye' > cack'é·les 'goatsbeard plant' ("plant being distant in the eye" because one can see its whitish blooms from a great distance).

Allomorphy involving these affixes is discussed in Chapter 2, section 2.3.6.

## 5.1. Lexical prefixes:

 $lex^w$  - 'always' and  $lex^w$ s- 'a person that always (Xes), a person that's always (Xing)'. The /s/ in the

second prefix can probably be equated with the {s-} nominalizer; however, a human semantic component is added with lex semantic component is separate listing here. Both prefixes seem to be attached only to intransitive verb roots.

Examples: lex -2 y 'generous, always good',
lex -q61-wet 'cranky, crabby, dirty-minded' (root q61
'bad; dirty'), lex -m61q-ewet 'forgetful; passed out
(if drunk)', lex -sk 6p 'always deep', lex -st 6m
'always choking on liquid' (Chehalis dialect also has
lex -sx t6m 'choking on liquid', where sx - apparently
has no more nominalizing force than s- in st 6m or
sk 6p; sk 6p 'deep' and sx \*k 6p 'deep' are independently attested as adjectival verbs).

lex ws-hé.ws 'a person that always hunts', lex ws-t'f.lem
'a person that always sings', lex s-?ú.met 'a person
that's always lazy', lex s-?í.c'el 'a person that's
always temporarily lazy', lex s-x iy60eqel 'a gossip',
//lex s-sí.si/(/lex si.i/) 'a person who is always
scared, coward', lex s-q'weyíléx 'a person that always
dances, someone who likes to dance'. The leq- in
leq-q aq sq' sl speaker, master of ceremonies' may be a
new prefix or merely misheard or misspoken for lex s-

c- c'- 'be the color' (c'- seems to be an allomorph used before glottalized consonants). This

prefix is unrelated to the c- which derives verbs.

Words for color changes ('get red', etc.) drop the cand add -el - -f·1 'get, go, come'.

Examples: c'-q'éyx 'black, be black', c-q\*éy 'green,
yellow, be yellow or green', c-mée' (sometimes c'-mée')

'blue, be blue', c-k\*f·m 'red, be red', c-k\*f·m-eq\*

'red-head(ed)', c'-mee'-á·les 'blue eyes', c'-k,\*fyx\*

'be brown (?), brown (?)', c-k\*fk\*em-el(-f·wel) 'reddish-brown, be reddish-brown', c-x\*fk;\* 'gray, be gray',
c'-q;\*fq;\* ex\*-el 'brownish-black, be brownish-black'
(-el is '-ish' in this word and in 'reddish-brown'),
c-téwél 'bright-colored' (téwel 'bright, light').

(Note that not all colors have this prefix; p'éq'

'white, be white', q\*iq\*éyels 'orange, be orange; an
orange', s\*fx\*esel 'dark gray, dark color').

tel-'from'. Examples: tel-tiyt 'from upriver',
tel-té's '(from) downriver', tel-te'é's 'warm wind
(from downriver)', tel-'elécs - tel-écs 'from where?'
('?slécs - ?elécs - lécs 'where?'), telf 'from' (prepositional verb < root lf 'be there' demonstrative).

we-'get to (?)'. A questionable prefix found in wec's 'get to the top or summit of a mountain' (< c's 'top, on top') and possibly in wec's 'fall, drop' (root may be related to that in c'x's 'jump').

xwe- 'go, come'. Examples: xwe-?£y-em 'clear

(of river water)' (root 'fy 'good'), x\*e-hfwel 'go
upstream' ('chiw 'upstream'), x\*e-wq'\*-fyl-ém 'go
downstream' (w6q'\* 'drift downstream; drown'),
x\*-tiyt-f·m 'eddy water' (go + upstream + repeatedly),
x\*(e)-c6·l 'where is someone going?' (cá·l-t 'follow
behind someone'), x\*(e)-c6k\*el 'where is s-o headed?'.

behind someone'), xW(e)-cakWel 'where is s-o headed?'. xW- '(pertaining to the head or its parts)'; mainly used sporadically with body part suffixes of the head -es 'on the face', -eq 'on top of the head'. -4.001 'on the mouth', perhaps -egel 'of the throat' and -6.11.ve 'of the ear'. Evennles: xW-0-á·oW 'big head', xW-0-á·s 'big face'. w-0-4.0el 'big mouth' (all with root 0 'big'). xw-k'a'qt-es 'long face, morose', xw-pap-a's 'hair all over the face'. (xW-)mékW-e0-t 'kiss s-o' (xW- optional), (xW-)m6kW-e0el 'kiss s-o on the lips (mouth)' (mékw 'stout' is root), xw-lívém-és 'smile' (lívém 'lengh'), s-xW-?40es-ces 'palm of hand' (s-?40es 'face'), s-xw-?40es-xyel 'sole of foot', xw-t'4xw-es-ces 'hollow of the hand' (xw- '(head)' + t'áxw 'going downriver' + -es 'on the face', -ces 'of the hand'), xw-t'axw-es-xyel 'arch of the foot', xw-melk, w-es 'get hit in the face by s-th falling', xw-lelé. 'listen hard' and xw-lelé.-m 'listen' (1 may be root, -slé may be related to somatic suffix -6.lf.ys 'in the ear'), possibly s-xW-0f.-col

'loud voice' (root 0f. 'big' + -aqel 'in the throat'), possibly s-xw-?f.le 'side of head' - 'cheek' (root meaning unknown).

sex"- '-in-law' may well be an error for tex"-; it has been found only in sex"-sf.le 'grandparent-in-law'.

tex - 'mid-, step-': tex méle(m) 'stepchild',

tex - mémele 'step-children', tex - ladopt a

child', tex - swé-yel - téx - swèyèl 'noon, mid-day',

téx - slè-t 'midnight'. (There is a remote chance that

téx - le t'tongue' may belong in this set; this would

be an alternate analysis to the one given later in

this chapter with lexical suffix - 6x - longue'.)

tla- 'this' (possibly a preposed demonstrative instead of a prefix): tlawfy61 - tlawfy61 'today', tlagf.vs 'now', tla x defett 'tonight' (maybe tla-).

tem-'time, season' (not thought to be borrowed from English); tem-q'\*fles 'springtime' (time for things to come up), tem-k'\*fk'\*es 'summer' (hot time), tem-hilálx\* 'fall, autum' (time for leaves to fall, see hfl-em 'to fall, tumble down'), tem-x£y\*, 'winter' (cold time), tem-pá·k'\* 'moon of October, time for Chehalis River spring salmon', tem-\*'f·q'-es 'moon of February, time one gets stuck or trapped (in pithouse

by the snow)', tem-t'elém-ces 'moon of February, time things stick on the hand (with cold)', tem-k"fk"ex"el 'moon of April, time for baby sockeye salmon', tem-?elfle 'moon of May, time of salmonberries', tem-t'emx" 'moon of June, gooseberry time', tem-qaq&' 'moon of June, high-water time', tem-q"&'l 'moon of July, mosquito time', tem-e&qi 'moon of August, sockeye time', tem-k'"&'lex" 'moon of September, dog salmon time', tem-t&'m 'when?'.

ye-'travelling by ...': ye-lá'ł 'travelling by canoe, (nowadays also by car, boat or train)', ye-?f·mexy 'travelling by foot' (sometimes also yi?f·mexy), ye-c'ec'é' 'travelling by horse', ye-x\*6-wq'\*elem 'travelling by going downriver', ye-x\*4x\*eq'\*et 'poling along (in calm water), travelling by poling a canoe'.

1-qá·-le (Cheh.) - c-qá·-le (Chill.) '(be) thirsty'
(root qá· 'water'), 1-ow-f6's 'naked' (possibly
'without' + 'no' + 'clothes')(more likely is a root
like 1-ow or 1-ow, not yet attested); 1-q'61-lex' 'know
it' (< q'6'l 'believe').</pre>

## 5.2. Lexical suffixes.

5.2.1. Somatic suffixes.

Below are the lexical suffixes found so far which refer to body parts (somatic suffixes). They are present in many of the words of the domain of anatomy. even in many of the independent words equivalent to the suffixes. They are also quite productive outside of anatomical words, sometimes also having a figurative meaning. At the present it is unclear whether the anatomical lexical suffixes developed historically from the independent words which have equivalent meaning or vice versa. It is important to note here that the Upper Stalo somatic suffixes are usually locative in nature, best translated by 'on or in the (body part)' everywhere except in body part words where they are best translated as partitive, 'of the (body part)' and in body function words where they are best translated by '(body part)' (usually subject of the verb root they are attached to). Further treatment of the somatic suffixes will be found in the sememic and morphosememic chapters. Allomorphy has been dealt with in the morphophonemics but allomorphs are relisted here for reference.

-f.ws, -ews 'on the body, on the skin, on the covering'
-eq", -(e)leq", -fq", -á·q" 'on top of the head, on
the hair, (head of a river; head of descendants)'
-qel 'in the head, (at head or source of a river; the
inside head = inlet of river; head of an island)'
-£16qel 'in the head'
-£1mĕl 'in the mind'
-wel, -wfl 'in the mind, -minded, disposition'
-á·les 'on the eye(s), in the eye(s), (on the eyelids)'
-á·s. -es 'on the face, (face of the hand or foot;

face of a mountain; face of a basket; opened surface of a salmon; bow of a canoe or boat; probably 'face of the moon' is source of -es 'cyclic periods')'

- -€·lf·yɛ 'on the ear, in the ear'
- -6(1)qsel, -e(1)qs 'on the nose, in the nose, point or end of a long object (pole, tree, knife, candle, land), (nose of geographic features such as an island, a mountain)
- -4.901, -(0)001 'on the mouth, in the mouth'
  -4.9001, -0.9001, -0.90(f1) 'on the lip, on the jaw,
  in speech, (in music)'

- -61.es. -elis 'on the teeth'
- -éx del on the tongue
- -epsem 'on the back of the head and back of the neck,

  (a neck of land)'
- -lel, -lel 'on the front of the neck'
- -eqel 'in the throat, (throat of a cliff or mountain; language; voice)'
- -f.les 'on the chest, in the chest'
- -eléxel 'on the arm, in the arm, (arm of multiple blowing = thunder wind; arm of a bat; possibly related to -éxel 'side (of a house, a square, or a river)')'
- -swic 'on the back (of a person), in the back (of a person), (the back of a foot = the top of a foot; backward)'
- -fecel 'on the back'
- -6wex 'on the ribs, (slats)'
- -& lwes, -& lwes 'on the stomach, in the stomach,
   (courage: 'cowardly' < 'bad in the stomach' and
   'brave' < 'good in the stomach')'</pre>
- -(e)yá·le 'on the stomach or ventral surface of body'
- -€·q, -eq 'on the genitals, on the penis or male'
- -(e)lec, -lec 'on the rump, on the bottom (of anything),

(animal dung; stern of a cance or boat)'
-f.wel, -fwel, -ewel, -ewf.1 'in the rump or anus,
 on the inside, (inside parts; core; inside the
 head; inside a plant or fruit or cance, etc.)'
 (-f.wel, -fwel refer mainly to the anus or inside
 of the rump, and -ewel, -ewf.1 refer mainly to
 the more general inside of anything; the two sets
 do not seem to separate into two morphemes easily
 because there is also overlapping in the meanings)
-x<sup>y</sup>el, -x<sup>y</sup>£.1 'on the foot or leg, in the foot or leg,
 (tail of fish; leg of other animate creatures,
 rays of light)'

-á·mál 'member or part (of the body)'

- (?) -étmel 'fin'
- -£lqel, -élqel 'wool, (feather)'

### Examples:

-f.ws: \pmod q^-f.ws 'half the body', \slow -f.ws
'(living) body', k'ws-f.ws 'singe hairs off skin',
qet-f.ws-em 'take a sweatbath (water one's body)',
q.wem-f.ws 'plucked (of a bird)', q.wem-6ws-t 'pluck
it (of a bird)', \sagai^wem-f.ws 'cedar bark skirt' (<
sfq.wem 'peel cedar bark'), \sagai-ws - sq-f.ws 'pants'
(seq- may be 'penis' or 'male'), \slow-f.ws '(woman's)
dress' (probably < 'opening' + 'covering'), p'ely-f.ws
'bark of tree', yeqwyeqw-f.ws 'Yakweakwioose (a village

near Sardis); covering (of grass) burnt out repeatedly', s-báy-ews 'spirit dancing costume' (probably 'final covering' < háy 'finish').

-(el)eq": k'wq"-6leq"-t 'hit s-o on top of the head (with a club or stick-like object)', yee-6leq" 'pointed head', s-q"&t-eleq" 'crown of head', s-t'6m-leq" 'scalp, top of head', xfym-leq"-t 'grab s-o by the hair', c-k"f-m-eq" 'red-headed, red hair', yá·s-eq" 'hat', cfl-eq" 'bushy and uncombed hair' ("high hair"), k'x"-fq"-tel 'kerchief' (cover + on top of head + device), lfc'-eq"-em 'get one's hair cut', x"-e-á·q" 'big head', efe-eq" 'big heads', s-c'á·m-eq" - s-e'á·m-eq" 'great grandparent/-child', e'ép'ey-eq" 'great great grandparent/-child', támiy-eq" 'great great grandparent/-child', támiy-eq" 'great great great grandparent/-child'.

-qel: s-x\*6; -qel 'pillow (rolled bullrush mat)'
(nominal + rolled + for the head), m£:-qel 'hair'
(probably 'comes out of' + 'in the head'), s-m5e'-qel
'brain' (nominal + blue + in the head), s-xács-qel
'Chilliwack Lake' (lake + at the head (of the river)),
s-q'5w-qel 'Seabird Island' (turn in river + at the
head (a head-shaped mountain or head of the slough or
head of the island)), s-kwetéxw-qel 'inlet' (the inside
+ in the head), (Tait) c5łqel - (Chill.) cełqéyl
'palate, roof of mouth and inside upper lip'.

-£16qel: xel-£16qel 'headache', tes-£16qel 'bump one's head', smelt-£16qel 'kidneys' (probably < sm£lt 'stone'. "stone in its head").

-61m61: t61m61 'the mind', h6yet-61m61 'nauseated' (vomiting + in the mind), t'ek' -61m61 'home-sick' (go home + in the mind).

-wel: lexw-q61-wel 'cranky, crabby, dirty-mind-ed' (always + bad; dirty + -minded), xw-26y-wel 'kind, generous' (become + good + -minded, in disposition), xw-q61-wel 'stingy', s-qel-well-meT 'hate s-o'.

-á·les: qe?-á·les 'tear' (qe? < qá· 'water'),
k'''q''-á·les 'hit on the eye(lid)(with a stick-like
object)', st'elmex''-á·les 'eye medicine', q'syx-á·les
'pupil of eye, black of the eye', s-k'''oc-á·s-tel-á·les
'eyeglasses' (sk'''ecá·stel 'window, mirror'), c-mee'-á·les 'blue eyes'.

-á·s: 6'•x² -á·s-em 'wash one's face', 6'q' -á·s 'punched in the face', x² -6-á·s 'big face', xéy-p'-es 'scraped on the face', s-k' -6-á·s-tel 'window, mirror' (nominal + see + face + device), qéyt-es 'headband', qéyt-es 'blind', ?fy-es 'fun, having fun' (good + in the face), x² -t'áx² -es-x² el 'arch of the foot' (pertaining to head + go downriver + on the face + of the foot) (references to head and face because the sole of the foot < pertaining to head + face + of the foot),

xw-t'&xw-es-ces 'hollow of the hand', s-tiyt-á·s
'Promontory Mountain' (upriver + face), s-xs1-es
'basket design' (nominal + mark, design + on face),
s-ifc'-es (Chill.) - sxw-ifc'-es (Cheh.) 'scored winddried salmon' (nominal + cut + on face), xwiq'w-es-t
'hang s-o', iq'á·t-es 'wide face'.

-6:1f.ys: k'wqw-6:1f.ys 'hit on the ear with a stick-like object or club', s-teltel-p'-6:1f.ys 'sloppy or flabby ears', sqwelqwel-6:1f.ys 'hair in the ears', t'smxy-6:1f.ys 'braid hair (over the ears or side of head)'.

-(e)(1)qs(e1): £c'-6lqsel 'cut on the tip of the nose', méqsel 'nose', £f'£k'\*-elqs 'hook-nose (of people and also the name of a mountain near Agassiz)', £¢y-p'-eqsel 'scraped on the nose', s-x\*eq'\*-eléqs-tel 'nose ring', se'6m-qsel 'bridge of nose', smétá-qsel or smét-éqsel 'snot', s'él-qsel or s'é-lqsel 'point of nose, point of land', s'él-eqs or s'e-fl(e)qs 'point of a knife', témk\*-eqsel 'blunt (of poles)', yèq\*-eqs-f'ls-cel 'I'm lighting the light (candle, lantern, etc.)' (burn + point + go,come or device + I (subject)), x\*fép-qs-t 'sharpen a point', 'éx-qs-t 'strike it (of a match)' (scratch + on the point + 3rd person object).

-4.001:  $x^W$ -0-4.001 'big mouth', 04.001 'mouth',  $q^{*W}$ iq  $q^{*W}$ em-4.001 'fishing with hook + line, trout-fishing',

s-qép'-à·081 'flying squirrel' (nominal + cover + on the mouth--so-called because of stories the animal will land against one's mouth when one is walking at night in the woods and smother one), sqwiqwey-á·001 'jackrabbit, big older rabbit'(also see 'harelip' below);

-á·yeel: c'em-xy-á·yeel 'jaw' (bite + object + jaw, lip), s-cel-á·yeel 'upper lip', s-k'ep-á·yeel 'lower lip', tc'-á·yeel 'cut on the lip or jaw', qwil-eyéeel 'beard, mustache', k'wes-á·yeel 'burned on the lip(s)', melmel-á·yeel 'blunder in speaking', melq-el-eyefl-em 'forget in speaking, forget one's words', mélec'-mee-á·yeel 'mixed up in speaking', sqe?fy-eqel-á·yeel 'not fluent in speaking' (not know + language + in the lips), há·yeel 'finish eating' (blend of há·y and -á·yeel), qwel-ayef·l-em or qwel-ayef·l-em 'making music', qwel-áyee-tel (or //qwe·l-á·yeel-fel/) 'musical instrument' (1 → Ø before -tel), qsyqewáeel-á·yeel 'harelip, cleft palate'.

-61.0s: y61.6s 'tooth, teeth', steq "-61.0s 'gums' (flesh + in the teeth), xxxolc'-elfs-em 'grinding one's teeth'.

 $-6x^{W}\Thetae1$ :  $t6x^{W}\Thetae1$  'tongue',  $s-x^{2m}-e1-6x^{W}\Thetae1$  'wild tiger lily' (nominal + crying +? + on the tongue--this is a description of the flower's petals--tears on the tongue or crying on the tongue).

-6psem: tepsem 'back of head and back of neck', temes-6psem 'red-headed woodpecker' (red ochre, Indian paint fungus + on back of head and neck), h'eqt-epsem 'long neck', qwe'fqw-epsem 'scrawny neck, thin neck', Oeh-6psem 'big neck', lekw-6psem 'break one's neck'.

-lel: sqwel-lel 'front of neck', sxweh-&:m61-lel 'adam's apple', p'ie'-lêl-t 'choke s-o' (squeeze + front of neck + purposely (+ 3rd person object)).

-egel: c'f.yxW-egel 'dry in the throat'. k, wes-egel 'burned in the mouth and throat'. smelow sméloW-eqel 'uvula', s-ef.-qel (//s-ef.-eqel//) 'loud (voice)' (big + in throat), xwiy60-eqel 'interpret, repeat what is said'. x ey0-eqel 'interpreting'.  $x^{w}iy\theta-eqe-\theta ax^{y}$  'interpret for me' (1  $\longrightarrow$  Ø here before //T//), x wetfy-eqel 'to answer, reply, answer back' (compare xwtiy-ces 'fight back'). xwtfl-ge-0axy 'repeat after me', xwelmexw-qel 'Indian language', walftem-gel 'white man's language. English'. célmel-qel 'Chinese language', s-x -mé0'el-qel 'liar' and mee al-qeyl-em 'to tell a lie' (root seems to be m&O'el 'be proud'); the last five examples may show suffix -qel 'language' possibly from -qel 'in the head' instead of from -eqel 'in the throat', but in 'loud' we see loss of the first /e/ and in 'interpret' and 'answer' we see the -eqel suffix referring to

'language'. Further figurative extensions of -eqel can be seen in k' fy-eqel 'climb a hill or mountain' (if this is not -qel 'in the head' used figuratively) and (s)q' el-6qel 'cliff, vertical rock face'.

-f·les: k; WqW-f·les 'hit on the chest (with a stick-like object)', s?f·les '(human) chest', t'; kW-f·lés 'choke on food', t'ékW-eles 'choking on food' (t'ékW' mired'), (s)t'; f·lés-tel 'collarbone' (t' ~ \lambda')(t'; ~ t'\left' (go) across, span'), qWeme'-f·les 'big breasts; name of Mt. Ogilby near Hope' (< qWd·me' 'large lump'), sfeqW-f·les 'breast' (sfqW' flesh').

-elégel: k''qw-elégel 'hit on the arm (with a stick-like object)', sxw-?i-légel 'armpit', s-e'em-xw-elégel 'elbow' (bone + ? + in arm), hec'-elégel 'cut one's arm', lekw-elégel 'break an arm', sk''ely-égel or sk''w-elyégel 'bat', p'fp'ee'-elégel 'bat' (squeezing + arm), s-patpet-elégel 'thunder-wind (wind that precedes a thunderstorm)' (thunder is thought of as a bird--the thunderbird, sxwexwa's--and the wind may be analyzed as 'nominal' + 'repeated blowing' (< pa't 'blow' + iterative reduplication) + 'arm'). This suffix may be related to -égel 'end or side of a house (inside or outside)'.

-ces: k'"és-ces 'burned on the hand or fingers', 16c'-ces 'cut on the hand', 6'ex"é:-ces-em 'wash one's hands', s-16x-ces 'finger', q'\*x\*61-ces 'fingernails', q\*6m-x\*-ces 'wrist bone (lump of hand)', \( \times'\), q''q'-(e)ces 'one's hand jammed or stuck', se'fk\*e-ces 'left hand, left-handed', lf·le-ces 'little berry basket attached to waist (it holds what the hand picks and when full is dumped into a large berry basket on one's back)' (< ?elf·le 'salmonberries'; the words are sometimes pronounced lf·leces and ?elf·le), \( \times'\), ces 'cedar limb', Siyém-ces 'proper name of the youngest Wealick brother in a legend; now the name of Frank Malloway' (said to mean 'chiefly hand' or 'rich hand').

-ewfc:  $k^{9W}q^W$ -ewfc 'hit on the back (with stick-like object)',  $\chi e k^{9W}$ -áles-ewfc -  $\chi e k^{9W}$ -áles 'backbone',  $lek^W$ -ewfc 'break the spine or back; have a hunchback',  $k^{9W}e^W$ -ewfc-ewfc-em (Tait dialect) 'look back'.

-f.cel: sxep'-f.cel 'chipmunk' (scratch or scrape + on back), s-xexep'-f.cel 'chipmunk with multiple stripes on his back', sq em-Ecel 'hunchback, lump on the back' (< s-q em 'lump'), possibly cl-fcel-x el 'top of the foot' (upper + back + foot) and q em-ecel 'dorsal fin (long fin on back of fish)'.

-6wex: lówex 'ribs', 0'ówex 'cedar slat basket', 0'ówx-iye 'name of cannibal ogress who caught children in a cedar slat basket'.

-£·lwes: xel-£·lwes '(have a) stomach-ache',

e'q'\*-&'lwes-t-em 'he was punched in the stomach',
qel-&lwes 'cowardly, afraid to try', 'iy-&'lwes 'brave'
(good + in the stomach), possibly \$6\$\foralle{x}\$ -elàw 'ruptured
belly button'(root may be \$10\$\foralle{x}\$ 'spit out').

-(e)yá·te: qsyqep'-(e)yá·te 'lay on one's stomach' (the only example so far of this suffix; the root is qep' 'cover', the gloss should probably be continuative).

-eq:  $q^W \xi y 1$ -eq 'pubic hair',  $\theta - \xi \cdot q$  'big penis', 'iyés-eq 'dear male friend' (compare 'iyés 'dear female friend').

-(e)lec: k\*\*q\*-6lec 'hit on the rump (with club or stick)', s-k;\*fy-lec 'lame; to limp' (nominal + climb + rump), ½eq\*-léc 'hip, hind leg' (wide + of rump), ?å·q\*-elec (á· · 6 · 6) 'back' (comes out above + rump), k;\*es-élec 'burned on the rump', s½-élec 'rump' (may be //s-½6l-lec// with root meaning 'folded over' as in s-½6l-p' 'sloppy' (probably 'nominal' + 'folded over' + 'on itself')), s-k'ep'-élec 'tail', (deep + in rump), s-c'é(·)-lec-tel 'chair, bench' (nominal + on top of + rump (subject) + device > 'device the rump is on top of'), yéq-elec-em 'change one's seat, change one's chair' (change + rump + one's (middle voice)), sx\*-260-elec 'bottom of anything', ½ep-léc 'bottom of creek', s-q'ep-léc 'bush bunched

up tight at bottom, thick crowded tight underbrush', skw-61ec (or skw6(1)-1ec) 'coiled bottom of basket before the sides are on', spè-6-61ec 'bear dung', cèkel-61ec 'chicken dung', 0'6mexw-1sc 'tail of Seabird Island'.

-f.wel: c'iyx -f.wel 'constipated, dry in the rump', xexek, w-1.wel 'constipated, wedged tight in the rump', t'ek -1.wel 'constipated, mired in the rump', (s)c'ep(x)-f.wel 'dirty asshole', sq'syx-f.wel 'black asshole', 0'q'W-1'wel 'open sores in rump, hemmorhoids', st'elmex -fwel 'love medicine (medicine for genitals)'. sc'elx - fwel 'insides (all the organs inside an animate being)', mé0'el-q-lwel 'woodtick' (pus + closable container + inside). t'em-ewi-l-t 'chop the inside of it out', xyep-ewf.l-t 'plane it out inside', se'em-fwel 'core. pith. seed, nut, center (of rock or anything)'. sq = ?f · wel 'hollow' (hole + on inside), sq = h-f · wel 'tunnel, hole, hollow', (s) \(\frac{1}{2}\)'(a) p-1 wel 'shirt, undershirt, bra' (below or deep + on inside), sim-fwel 'strong feelings or mad all the time but won't fight' (scary or bad or evil + on insides), tok, w-f.wel 'be surprised' (fly + on insides), xway-f.wel 'happy. happy inside', squel-ewel 'thoughts, feelings' (talk or speech + on insides).

 $-x^{y}$ əl:  $\pm 6k^{y}-x^{y}$ əl 'trip, stumble'(hook + on foot),

e d w w w wash one's feet', s-lex-x el 'toe', s-xyec:-xyel 'splinter or sliver in foot', lec'-xyel 'cut on the foot', qwem-xw-xyel 'ankle' (lump of foot). se'ém-xyel 'shin' (bone in leg), sq'ep-áleqw-tel-xyel 'kneecap', lekw-xye'l 'broke a leg', qwli.y-xyel 'shoe(s)' (driftwood + on foot). 00liwe-xyel ~ celiwé-xyel 'snowshoe(s)', lé-xyel 'fishing platform (for still-dipnetting)'. xwá·m-xyel-em 'run'. x em-x t.l-em 'running' (some speakers of Tait and Chehalis dialects say the glosses are reversed on the last two words)(root x om 'hurry, be fast' undergoes derivational fronting of the x to x ), sq elq el-x el 'tuft(s) of hair on a horse's legs', sxép-x'el 'fish tail'. h'emh'em-xyel 'grasshopper' (repeatedly jumping foot or leg), pft-xyel 'salamander', h'6lx-xyel 'spring salmon (generic) (spotted + foot), s-lém-xyol lém-tel - s-lémlem 'dew' (respectively, 'rain or moisture on the foot, rain device, and repeated or plural rain or moisture), sq'á-xyel 'partner' (together + in foot), seeqel-xy61-6m 'rainbow' (see also sxelx61e-s to syá·q wem 'visible beams or rays of light', literally "legs of the sun").

-á·m61: mek<sup>W</sup>-á·m61-x<sup>y</sup>el 'big toe' (stout + member + of foot), mek<sup>W</sup>-á·m61-ces 'thumb', (Tait dialect) m6t'es-em61 'pointing finger, first finger',  $s-x^Weh-am6l-2e2$  'adam's apple' (upstream(?) + member + of front of neck).

-Stmel: q'Stmel 'fin, neck fin', 6'Stmel 'belly fin'.

-£lqel: metú·-?£lqel - metú·lqel 'sheep wool'
(lemetú· - metú· 'sheep'), sq<sup>W</sup>(ə)mɛ́·y-ɛlqel 'dog wool',
p'q'-6lqel 'mountain goat' (white + wool), s\*'p'-£lqel
'long feathers' (deep + (derivational glottalization as
in 'tail') + wool);

5.2.2. Numeral classifier affixes.

So far 20 lexical affixes have been found which can be added to numerals. The chapter on numerals will cover them in more depth and will cover the extensive numeral allomorphy involved. These affixes are listed here because over half of them can also be affixed to roots which are not numerals. Eight of them can also be affixed to the numerical interrogative verb, k. \*\*I·1 'how many?'. With numerals they seem to function in the same manner as numeral classifiers in other languages; some must be and the rest can be affixed to numeral roots in order to count certain nouns; nouns with identical lexical meaning to the classifier suffix cannot occur within the same syntactic phrase with it, but nouns with more specific reference than the classifier suffix can occur within

the same syntactic phrase with the suffix.

Numeral classifier affixes were apparently used more extensively in pre-contact times or even 70 years ago than they are now. Only the oldest, most fluent speakers remember many of them and use them obligatorily. The range of numbers they can be used with also varies with the affix. In the following table the numeral classifier affixes are listed with range of affixability (those with greatest range are listed first), affixability to k<sup>N</sup>f·1, affixability to non-numeral roots, and whether they are obligatory or optional. For allomorphy of the affixes see the chapters on morphophonemics and numerals. A brief set of examples follows the table.

-es 'dollars': with 1-99, k; "i·1, non-numerals, obligatory

-£le 'people': with 3-99, k'wf.1, obligatory,
but exact count often replaced by q6x 'many' over 49
s- -s 'o'clock': with 1-12, k'wf.1, obligatory,
related to s- -s '-th day of the week', probably

deriving from s- nominalizer + -es 'cyclic period' rather than a circumfix

-6wes 'canoe paddles, paddlers': with 1-11 (the largest race canoe has 11 paddlers), k, f.1, non-numerals, options1?

- $\mathcal{E}_{\pm}$  'times': with 1 (allomorph - $\mathcal{E}_{x}^{w}$ ) and 3-10,  $k^{w}$ 1. obligatory

-fq<sup>W</sup> 'fish (heads)' (apparently fish are counted by the head)(this suffix has dissimilatory allomorph -eq<sup>W</sup> after fC(C) where C = consonant): with 2-9, non-numerals (as somatic suffix -eq<sup>W</sup> 'on top of the head'), optional?

-elsx<sup>V</sup>E 'times ten, -ty': with 3-9 (yeilding 30-90),

non-numerals (one example), obligatory

-elp 'trees': with 1-5, k' f':1, non-numerals, obligatory for single owner

-má·t 'piles': with 1-5, obligatory

s- -s'-th day of the week': with 2-5, obligatory
-61wet 'garments': with 2-5, non-numerals, optional?
-6.wtx 'houses': with 2-5, k, 'Wf.1 (-tx 'allomorph),
non-numerals, obligatory for single owner

-6wel 'canoes': only with 5 so far, k, wi-1, non-numerals, optional?

- $\ell$ yiws 'pants' (possibly < - $\ell$ y 'bark' + -f·ws 'on the body, covering'): only with 5 so far, non-numerals, optional

-á·ls 'spherical objects, fruit': only with 5 so far, non-numerals, optional?

-eqel 'containers': only with 5 so far, (possibly related to -eqel 'in the throat'), obligatory?

-&·ll 'young': only with 5 so far, non-numerals, optional

-&\*ltex\* 'wives': only with 2 so far, possibly related to -&\*wtx\* - -ltx\* - -tx\* 'house(s)'

-émec' (probably - -éme0') 'upright, poles'; only with 2 sc far, non-numerals, obligatory

-ewec (gloss uncertain): used as formative only in l£c'-ewec '(one) hundred', may be related to -ewfc 'in the back' since the root of 'hundred' is l£c' '(be) different' and 100 is different at its back from the tens by an extra zero at the back.

Examples: (?isé·le 'two', leq'éces ~ lq'é·ces 'five', tegéce 'eight'; in the examples to follow numerals are not spelled out (to save space), and the forms involving the root for 'five' ta'& ces usually have this form in variation with /10 6.cs/) +q'á·c-es '5 dollars', tegá·cá·-s '8 dollars', la'é·c-éle '5 people', s-lq'é·c-es or s-lq'é·ces-s '5 o'clock', s-teqé·ce-s '8 o'clock', ±q'éces-6·wes '5 cance paddles, 5 paddlers', lq'éces-él '5 times'. +a'sces-fa<sup>W</sup> '5 fish', +6a'ec-elsx<sup>y</sup>é '50', +a'sces-é+p '5 trees (belonging to one person)', lq'éces-má·t '5 piles', s-leq'&c-es or s-leq'&ces-s 'Friday'. +a'éces-élwet '5 garments', +a'éces-é'wtx '5 houses or buildings (belonging to one person)', lq'sces-6wel '5 canoes (belonging to one person)' (compare lq'éces slex et '5 canoes (belonging to different people)'),

#q'sces-éyiws '5(pairs of) pants', #q'sces-é·ls '5 fruit,
5 spherical things (5 rocks, 5 balls, etc.)', #q'śc-eqel
'5 containers (like baskets, etc.)', #q'śces-(')á·l#
'5 young', 'isl-é·ltex' 'man with two wives',
'isśl-émec' 'two poles standing upright', lśc'-ewec
'one hundred, hundred'.

5.2.3. Other lexical suffixes (arranged alphabetically by gloss).

-£·y (~-ey --iy) 'bark and wood': p(e)qw-£·y
'rotten wood' (péqw 'split, broken, busted', páqw-eet
'get mouldy, decayed'), p(e)qw-£·y-eet 'wood decays',
qw-£·y 'driftwood' (qwet 'fall in water, tip over in
cance'), x(e)p-£·y 'red cedar wood', slewfy 'inner
cedar bark' (root lew- 'inside or into an opening'),
or cedar bark mat
tqw-£·y 'cedar bark skirt (or peeled bark)' (teqw-£·t
'peel any bark'), slevy 'Douglas fir bark', l£·y-etp
'Douglas fir tree', c's-£·y 'fir log or wood',
e'£·x-ey 'bleached grass for basketry designs'
(e'£·x-et 'scald it'), q'et'em-£·y-etp 'balsam, larch'
(q'£q'et'em 'sweet-tasting' shows root; the tree has
sweet sap on outside of bark), s£k'\*em-iy 'birch',
qweqwet-iy 'lots of little pieces of driftwood'.
--£·me 'berry'; celq-£·me 'blackcap berry' (c61q

-á·me 'berry'; celq-á·me 'blackcap berry' (célq 'fall off, drop'), k<sup>w</sup>x<sup>w</sup>-á·me-ls 'mountain black huckleberry (Vaccinium membranaceum)'.

 $-\epsilon(\cdot)wtx^{W}$ ,  $-ewtx^{W}$ ,  $-(\epsilon)ltx^{W}$ ,  $-(el)tx^{W}$  'building, house': xwalmexw-éwtxw 'smokehouse, longhouse' (lit. Indian house). ?sk'qel-é.wtx outhouse. bathroom! (outside + house), lém-é·wtx bar, pub, liquor store (lém 'liquor' < English "rum"), céltel-éwtx 'smokehouse, dried fish house' (dried fish + house). ?iltex w-Ewtx 'plank house' (plank + house), cenével-éwtx 'church building' (prayer + house). téle-?éwtx" 'bank' (téle 'money' < English "dollar"). oil-fwty "tent" (sfl 'cloth' < Chinook/English "sail"). slex wel-f.wtx 'canoe shed', siyat-f.wtx 'woodshed', sak " om- Ewtx bark house'. q by flex - Ewtx dance hall'. smfle-? Ewtx "spirit dancing house", wf.c-Ewtx outhouse (for solid waste)'. mék, wen-éwtx 'second-hand store' (mék, wem 'use second-hand'). 'Itet-é.wtx' 'hotel, bedroom', spepil-éwtx 'root cellar (covered with earth, separate from house, kept potatoes, apples, etc.)'. Of v-SwtxW-om 'build a house' (make + house + middle voice). l&c'-ewtx 'next-door, different house'. l&.c'--wtxW--om 'visit', cl-EltxW 'upper portion of pit house or any house', s?f.ltex 'cedar planks on roof or side of house'. Swelfm-eltx '(Indian name of Ed Leon Sr. of Chehalis)', qiq'-Ewtx 'jail'. + see 5.2.2. -6(·)wel 'cance'. -(V.)wel 'vessel, container': g'exw-6.wel 'war cance, largest cance', téy-owel

'racing canoe', pot-6weł 'row-boat', x<sup>y</sup>ix<sup>y</sup>ep-6weł
'planing a canoe', qep'-ás-oweł 'canoe turned upside
down (on land)', t'6k\*-oweł (k\* - q\*) '"corking a
canoe", caulking a canoe', łóq-oweł 'patching a canoe',
ty\*-6weł 'tow a canoe (through rough water)',
x\*wok;\*-6weł 'drag a canoe', ?ilem-6weł 'carry a canoe
on shoulders', ?61-w6ł 'middle of a canoe (on inside),
middle paddler(s)', łex-el-w6ł-tel 'cross-piece in
canoe, thwart'; c'eq;\*\*-6\*weł 'weave a cedar root basket' (c'éq;\* 'poke, pierce'), słóq'-oweł 'lower back'
(wide part? + canoe), q\*weł(1)y-6weł (6 - ú) 'carved
wooden spoon' (compare q\*weł(1)fy-x\*el 'shoe'),
x\*fweł 'vulva, vagina'.

-ál 'cance': yek' -ál-em "breaking one's cance", last spirit dance of the season' (yék' -et 'break s-th up'), compare 'á'l 'be aboard (a cance)'.

-f1 'child, young, baby' (see also -á·ll 'young',
may be case of l-y alternation if //-6yl/):

xyalem-f1 'baby-sitter' (xyalem-f1 'take care of s-o'),
s-kyalem-f1-em 'adopted child' (kyalem 'raise (a child)').

-iyá·s 'in a circle': q'syq'olc'-iyás-om spohé·ls 'whirlwind' (spohé·ls 'wind'), sisolc'-iyás-om 'turn around in a circle' (probably < sísol- 'spinning', -elc' 'around, over, turning', -iyá·s 'in a circle', -om 'middle voice'), xéylx61-iyá·s-om 'it is written (in the sky)(as striped clouds)'.

-fe's, -fe's 'clothes': k'\*eq"-£l-fe's (e ~ o)
'Coqualestza (a place in present-day Sardis, B.C.)'
(club + ? + clothes; at least two different stories
account for the origin of this placename from 'club'
+ 'clothes'), (AC) how-fe's ~ (DM) hew-fe's 'naked',
how-e's-m 'to undress', ?fe'sm 'get dressed', s-?fe'sm
'clothes, clothing', spaleq"-fe's 'corpse, ghost'
(probably clothing of the spirit), s-qel(-)á·l-fe's
'west wind' (possibly 'dirties' + 'clothes'). See
also the suffix for 'garment'.

-£·l£, -£l£, -əlɛ 'container for, receptacle for';

(over 30 examples have been found, including the following:) sxw-h£yqw-ɛlɛ 'firepit' (container for burning), s-xwek-qel-£·l£ 'pillow case' (container for pillow, pillow < rolled thing under head), sqelxw-£·l£ 'throat, gullet' (greedy + container), s-xwiym-£l£ 'store' (nominal + sell + container for), sxwl£m-£l£ 'bottle' (sxwl£m 'medicine man' or sxw-l£m 'something going'), sxw-m£lɛ-h£·l£ 'fishing basket, bait basket' (nominal + bait + container for), ½È·c'-tel-£l£ 'knife handle' (cutting + device + container for), s-p'àk'em-£l£ '(tobacco) pipe' (smoke + container for), s-p'àk'em-£l£-tel 'smokehole', smok'w-'£·l£ 'grave-yard' (smôk'wɛ 'grave'), spatel-£l£ 'mast' (spât-(t)el 'sail'), sc'ɛxyt-£l£ 'knothole' (branch + container for),

sxwe·ye-hè·lè 'Squia-a-ala (Chilliwack Indian Reserve #7, a village in pre-contact times)' (xwe·y 'many people perished together'), səxwe-?ɛlɛ 'bladder' (urine + container for), k'wel(·)ɛ 'stomach', xelw-elɛ 'horn rings for dip nets' (xelew 'spoon').

-eqel 'container': ?i'?ɛx f1-eqel (Tait and Cheh, have 'ɛ'?ɛx f1-eqel) 'small container', mimel-eqel 'small container' ('emimel 'a little bit'), memel-eqel 'small containers' (e-ablaut plural of /i/ in diminutive reduplication is regular), t'il-eqel 'salmon after spawning when its eggs are loose' ('lonely + container').

-á·s, -əs 'cyclic period, moon, season': (probably related to -á·s - -əs 'face') pəláq-əs 'torch moon (in January), (time to spear fish by torchlight)' (pəláqəl 'torch'), təm-k'f·q-əs 'moon (when one) gets jammed in (from snow)(in February)' (time + jammed in or stuck in a trap + moon or cyclic period), wəlók'-əs 'little frog moon (in March)', təmt(')áləs 'spring showers moon (in April)' (if not -əs then -á·ləs 'in the eyes'), 'epál-ós-təl 'tenth moon (in July)', məq-á·s 'fallen snow moon (in December)' (mé·qɛ 'fallen snow'), sk'\*exy-á·s 'moon, month' (k'\*exy-'count'), wé·yól-ós 'tomorrow' (wé·yəl 'come daylight'), 'im-exy-á·s-em 'go for a walk' (walk in a circle with-

out destination), \(\frac{1}{4}\cdot \text{N}^{\text{M}}\) on (-)\(\delta\cdot \text{1}(-)\cdot \cdot \text{N} \text{v} \text{when the first fall storm comes' (\(\frac{1}{4}\cdot \cdot \text{N}^{\text{M}}\) 'to fly', -\(\delta\cdot \text{les 'in the eyes' may be the suffix here instead of -\(\delta\cdot \text{N}\).

-á·lk<sup>w</sup>ł 'spirit dancer': xsws-á·lk<sup>w</sup>ł 'new spirit dancer' (xśws 'new').

-elet 'day of the week': sxexe-let 'Sunday' (sacred + day of the week), yile w-elet 'Monday' (passed or after + day of the week).

-2.1 'deceased' (or perhaps merely the past tense suffix attached to nominals): si.li. late grandperent, deceased grandparent' (siele 'grandparent'). měl-à·l 'late or deceased child' (méle 'child'). si sel-2.1 'late grandmother' (si sele used by AC for grandmother), selsi-1-2.1 'late grandparents' (selsi·le 'grandparents'), sx em@iy-è·l 'deceased uncle/aunt/grandparent/someone responsible for you directly or indirectly', sx wemx wemeiv-£. deceased uncles/aunts/ etc.'. s-mostiy-£1 'sibling of deceased parent' (mestiy-ex" 'person'), swelm-syt 'child of a dead sibling' (< (s)wélém 'orphan'); compare -el in lé·t-el 'morning' (< s-lé·t 'night' + 'past'). x wel£lt-el 'last night' (x e-l£lt 'evening' < root lé·t 'night'), we-lí·0-el 'a long time ago' (< lí·0 'a long time'), and -1 past tense on verbs.

-tel 'device, implement, thing used for' (over 90 examples found to date, a few of which follow): ?6xW-tel 'broom' (?fxW-et 'sweep it'). x61-tel 'pen. pencil, writing instrument' (xéyl-t 'write s-th'). té·c'-tel 'knife' (li·c'-et 'cut s-th or s-o'. lec'-'cut'), s-k' fy-tel 'ladder (native notched pole or any modern kind)' (k' fy 'climb'). s(x )-c'é-lec-tel 'chair, bench' (nom. + on top, astride + rump + device), s-xw6q, w-tel 'canoe pole' (xwaq, w-et 'pole it (of a cance)'), si-tel 'basket (generic)', q'eléc'-eq -tel 'umbrella' and q'aléc'-tel 'square dressing room of blankets for sx dyx sy dancers' (q'eléc' 'rainshelter. \*protection'). sxw-yém-tel 'belt. sling, strap' (nom. + wide strip + device), s06qi-təl 'sockeye net', kwóxwe0-tel 'coho net', h'élxxyel-tel 'spring salmon net', s-wel-tel 'net, web', 0'es-tel '(metal) nail' and 0'es-éle-tel 'arrow pouch, quiver' (0'fs-et 'nail it', -61& - -6.1& 'container'), sxW-0'&:1-tel 'fine cedar root strips for baskets' (root unknown), sxw-t'61-tel 'bridge made of big log, big bridge' (sxw-t'ft 'bridge made of small log') and (s-)t'l-fl's-tel 'collarbone' (root probably means 'span, go across'), mgt'es-tel 'first finger, pointer finger' (point, aim + device), séx ε-tel (ε - e) - sex -- ε ·lέ 'bladder' (sex we (e ~ ε) 'urine'), s-melè-tel 'womb, uterus'

(m61è ~ m61e ~ m£1e 'child (kinterm)'), 0'6x-tel (0' ~ c') 'rattlesnake', s-q'61-tel 'word, language' (q'è·l'talk, speak'), sp'ak'em-£·l£-tel 'smokehole' (smoke + container + device). This suffix sometimes conditions the dropping of the last l in the preceding suffixes -á·y0el 'in the lips', -x'vel 'in the foot, leg', -el£xel 'in the arm', maybe others; q'vel-á·y0e-tel 'musical instrument', ½£x-x've-tel 'rug', and q'ep-el£x-tel 'armband'.

-els 'device, tool, thing for, person for' (used mostly with continuative forms of the verb; possibly related to -\(\epsilon\). The continuative forms of the verb; possibly related to -\(\epsilon\). The continuative forms of the verb; possibly related to -\(\epsilon\). The continuative forms of the verb; possibly related to -\(\epsilon\). The continuative continuation is saw' (\(\frac{1}{2}\) c'-et 'cut it'), \(x^{\frac{1}{2}}\) xy fx = -els 'a plane (the tool)' (xy f. -et 'carve s-th, plane it'), t. \(\epsilon\) the continuation of the con

-f·ls 'device, tool' (perhaps questionable): s-x<sup>y</sup>á·x<sup>w</sup>f·ls 'a borer or auger' (x<sup>y</sup>á·l-t 'to bore'), vec w-eas-f.ls-cel 'I'm lighting the light' (burn + pointed object, nose + device? + I (subj.)), only 2 exx. -ive 'diminutive': 'iyés-iye or tá'-iye 'darling. dear (mother to little girl)' (?iyés 'dear female friend'. tá? 'dear mother'), sqsyéx-iys 'pet name of Mink; a little bragger or boaster' (sqsyex 'Mink'), wi0-iys w66we0 'snipe', t'ém-iye 'little winter wren', t'ém-iye 'hermaphrodite baby' (homophonous with 'wren'). g'avek'-ive 'snail', se'im-iye 'small (landlocked) coho salmon' (said to hatch from berry that drops in lake. thus < s0'f'm 'berry' + -iys 'diminutive'). possibly h6.1-iye (o. - u) 'humpback salmon' and swet-fyé (t - t') 'porcupine' and siyémiyem (CT)(é -AC's & here) 'pregnant' (possibly siyem 'leader, chief' + -iye 'little' + -em 'carry, use'), st'it'ex-eye 'Ruby Creek (near Seabird Island)' (st'ex 'fork in s-th'), xam-á·0'-iye 'youngest sister of Mt. Cheam' (xè·m 'weep, cry' + -á·mə0' 'standing, height' + -iye: socalled because lots of creeks run together from her because she cries since she can't see the Fraser River). slax-iye 'Indian name of Celia Thomas', x wemic-iye 'Indian name of Lucy, mother or other close relative of Celia Thomas', swales-iye 'Indian name of Al Guttierrez and his great grandfather Bill Swalesiys', selfm-fys 'Indian name of Jeanne McIntire (of Seabird)'.

-aye 'diminutive' (related to -iye): sisem-aye 'bee' (compare si(')sem 'feel creepy, fear s-th behind'),  $s(-)x^y$ -á·yɛ 'co-wife, female rival of wife' (s- nominalizer + xy- 'genitals' + -á·ys 'little'). s-x -avé -s(-) ag 'ex-wife's husband, wife's ex-husband, male rival of husband' (-eq or perhaps here -seq 'male'). -1.16p. -Eylép. -elep. -ép. -ip. -ép 'dirt. ground' (allomorphy seems to be -£ylép and -£p after postvelars, the other allomorphs elsewhere, -f.lep after CVCVC. other stressed allomorphs after CVC (monosyllabic unstressed roots), -elep after a stressed syllable; but two of the 16 examples don't fit this pattern): leq'-£ylép 'level ground' (léq' 'level'), \*'x"-£ylép 'hard ground' (\* 'éx 'hard'), tex-éylép-tel 'floor' (this is an alternate analysis to that given in lexical prefixes under the prefix 1-; cp. 1-x-owe1-tel 'thwarts, of a cande', lex-xye-tel 'rug' and lex-eyl-exy 'stand up': it seems there is a root lex - lex, not clearly attested yet semantically or as a verb; -£yl in 'stand up' may be related to -f·l 'come, go'; the other suffixes are clear as already explained), syic em-flep 'sand bar' (syíc'em 'sand'), sqátem-ílep 'hill' (root meaning unclear), tewéle(-)h-f.lép 'sloping ground' (tewéle 'sloping'), xéyxəp'-í·ləp 'a rake' (éy ~ í)(xéy-p'-ət 'scratch or scrape s-th and leave a mark'),

Oayx -1.lep-t-es 'he was softening the ground' (this was done to some places to insure a good growth of wild veretables)(0áyowels 'digging'). c'esém-elep 'weeds' (c'isem 'grow', thus 'weeds' are 'growing dirt'). sxW-k'6xY-elep 'a plow' (k'6xY 'rip or break apart'), s-owel-fo '(black) beard moss, black moss bread' (nom. + boil + dirt; this moss is cooked underground and becomes a sweet licorice-tasting loaf), k'ss-ip 'licorice fern' (roots are edible and grow in dirt-like accumulations on the bark of maple trees; root meaning unclear), s-q'ex-&p 'stump (of tree)' (root meaning not clear),  $sq^{W} \mathcal{E} \cdot p (//s - q^{W} \mathcal{E} \cdot - (\mathcal{E})p//)$  "hole with water at (foot of?) Mt, Cheam on the side away from the Fraser River." lake or waterhole on Mt. Cheam' (s-q to 'hole'). seiv-ép - seiy-ép 'loincloth' (nom. + eiy 'make'? + 'dirt'), s-qel-ép or s-qél-ép 'garbage' (qél 'bad, dirty').

-ewf\*ls 'dishes': 0'ex\*-(e)wf\*ls 'wash dishes'
(6'6x\* 'wash'), sx\*-0'ax\*-ewf\*ls (a probably sic for e)
'sink, dishpen', x\*0-2'iq'\*-ewf\*ls 'drying dishes'
(2'g'\*-es-em 'wipe one's face').

-á0 'edge': 'iy-á0 'sharp(-edged)' ('iy is an unstressed allomorph of 'éy 'good'), qel-á0 'dull (-edged)', qel-á0-eqsel 'blunt (of a point or pole)', seml-á0-el 'riverbank' (seml(-)£1-iyel 'a set net, a

stationary net', mfl-iyel 'to set a net'), s-meq'-é0
'extra food which guests can take home' (which may be
mistranscribed) may belong here (méq' 'be filled or
stuffed with food').

-elcep 'firewood':  $\theta$ 'iq'\*-élcep 'split (firewood'  $(\theta$ 'fq'\*-et 'punch s-o or s-th'), yéq\*-elcep 'make a fire, burn wood' (yéq\* 'burn'), sf·lcep-tel (DM) 'a firedrill' (root sel- 'spin'), q'\* $\varepsilon$ 'y-cep 'cinders, real fine powdery ashes (light, soft, dust-like)'  $(q^*$  $\varepsilon$ 'y-t 'burning pitch onto a canoe').

-elsx $^{y} \xi$  'ten times, -ty; first time' (see numeral classifier affixes for all examples except the following): yfq-elsx $^{y} \xi$ -y 'first snow of winter' (yfq 'to fall (of snow)').

-616qep, -61eqep 'fragrance, smell, odor':

?sy-61eqep 'good smell', q61-eqep 'bad smell',

selcim-616qep 'how does it smell?' (selcim 'how is it?,

how?'), qelqéy1-616qep 'turn bad in smell' (qelqéy1

'turn bad'), sim-616qep - sim-61eqep 'bad stink' (root

unknown unless sim as in sisem 'feel creepy, fear s-th

behind').

-á·ls 'fruit, spherical': s-qe?-á·ls 'juicy fruit' (qá· 'water'), xyelk; "-á·ls 'spherical' (xyelá·k; 'round', xyelá·k; "-t 'roll s-th up'), xyep-á·ls-t 'peel fruit or vegetable or vegetable root' (xyf·p-et

'peel bark or tree root, peel it (of bark or root)'), k'\*aq\*-iy-á\*ls 'lacrosse' (club + bark + spherical), c'f·c'q\*el-à·l(s) 'grass shinny' (root uncertain), c'q-á\*ls 'Hope, B.C.' (the Fraser River turns in a circle around the site; however this etymology may be dubious), also see this suffix as numeral classifier affix.

-elwet 'garment, clothing': 0'6x -elwet-em 'wash(ing) one's clothes' (0'6x wash'), sx -0'6x -elwet-em 'washtub, washing machine', s-x 4tq -elwet-em 'washboard' (root meaning unclear), \(\lambda'\)1\(\lambda'\)2\(\text{probably}\)-le- 'plural'), \(\lambda'\)2\(\text{eep}\), \(\text{eep}\)1\(\text{deep}\), under-', \(\lambda'\)2\(\text{eep}\)1\(\text{

-f·l, -el 'go, come, get (become)' (conditions preceding -el -> Ø, see morphophonemics): xyoc'-f·l-em '(go) through the woods' (s-xyf·xyoc' 'woods'), kwetxw-f·l-em 'come inside, go inside' (s-kwet&xw'in-side (a house)'), k'p-f·l 'descend' (k'fop 'down, deep'), q's-xy-f·l-t (//q'á·-xyol-f·l-T//) 'go with, come with, or be partner with s-o' (s-q'á·-xyol 'partner', s-q'eq'á·'together with'), sqem-f·l 'inside a pit house' (sqfmfol 'pit house'), 0et-f·l 'gone dark' (0f·t 'darkness'),

k\*f·m-el 'go red, get red' (c-k\*f·m 'red'), q\*f·y-el
'go yellow (or green), get yellow' (c-q\*f·y 'yellow,
green'), p\*eq\*-fyl (or p\*eq\*-f·1) 'go white, get white'
(p\*fq' 'white'), q\*fyy-el 'go black, get black'
(c\*-q\*fyy 'black'), mee\*-f·1 'go blue, get blue'
(c-m\*fe\* 'blue'), mee\*-f·1-t 'make it blue; dye it,
color it (any color)', lew-f·1-em 'go into an opening',
'iy-f·1-em 'clear up, turn fine' ('fy 'good'), s-yeq\*-f·1
'lamp, lantérn' and yfyeq\*-f·1 'small light, candle'
(things that go burning), q\*es-f·1-tel 'tumpline'
(q\*fys-et 'tie s-th', thus a device that goes tied),
possibly qel-iye-f·1-em 'say bad words, swear, curse'
and q\*el-aye-f·1-em 'making music; March moon' (q61
'bad', q\*for 'middle voice').

-mel 'location around a house': ?ɛx<sup>y</sup>elés-mel
'in front (of a house)', celk<sup>w</sup>-éxel-mel 'behind or
back of a house', s?éx'q-mel 'outside (of a house)',
cél-mel 'on top of a house', s?eléc - (s-)?eléc-mel
'bottom of a tree (trunk) or house (foundation)' (all
examples occur without the -mel and correspondingly
lack the meaning '(of a house)'.

-fxel, -exel 'end of a house (inside or outside)' (maybe related to somatic suffix -elfxel 'on the arm'):
s-tiyt-fxel 'upper (upriver) end of house (inside or out)',

(tfyt 'upriver'), s-ewq'\*-£xel 'lower (downriver) end of house (inside or out)' (wóq'\* 'drift downriver, drown'), cucuw-£xel 'front end of house (inside or out)' (cúcuw 'away from shore, towards the middle of the river, in front'), s-celk\*-£xel 'back end of house (inside or out)' (possibly cá·lek\* (k\* ~ q\*) 'toward the woods, away from the river, in the backwoods'), celk\*-£xel-mel 'behind or back of a house', q'el-£xel 'fence' (root meaning unknown), s-t'elt'el-£xel 'a square' (root meaning unknown), s6lc'-exel 'to circle around the outside of a house' (s6lc' 'go around in a circle').

-le 'need, lack': c-qá·-le 'thirsty' (Chehalis: 1-qá·-le)(c- and 1- verb formatives, qá· 'water')(this seems to be the only example, but it is a clear one).

-£·lews 'leaf, leaves': p'elp'elq'em-£·lews 'popler; sparkling leaves' (p'£lq'em 'sparkling'), x<sup>w</sup>əs-£·lews 'fallen leaves' (x<sup>w</sup>fs-et 'shake leaves or fruit off a tree or bush'), c'ak'<sup>w</sup>ə-?£·lews 'skunk cabbage leaf or leaves' (c'âk'<sup>w</sup>ə 'skunk cabbage'), q'əmō·w-əłp-£·lews 'maple tree leaf' (q'əmō·w-əłp 'maple tree'), cewō·w-əłp-£·lews 'cottonwood leaf or leaves' (cewō·w--əłp 'cottonwood tree'), pipeham-£·lews 'plantain' pipehà·m 'frog', the plant is always called "frog leaf", neaver translated "plantain").

-61e 'leg' (related to -x<sup>y</sup>el 'leg, foot', somatic suffix): h'slqt-61e 'deer' (h'sqt 'long', -1- infix 'plural', -61e 'leg'), s-x<sup>y</sup>-61e 'penis' (s- nom. + x<sup>y</sup> 'genital' + -61e 'leg').

-elcs 'unclear liquid' (gloss approximate):
lex W-6lcs '(to) spit' and léx-elcs 'spitting' and
s-léx W-elcs 'spit, saliva' (lex W-ért'(to) spit'),
0'eq W-6lcs 'mudpuddle, dirty pond'(root meaning unclear),
qér-lcs 'juicy' (qér 'water'), s-wfrlcs 'Cultus Lake'
(root meaning + shape unclear).

-á·mex<sup>y</sup>, -emex<sup>y</sup> '-looking, appearing'; '?iy-á·mex<sup>y</sup> 'good-looking, handsome, beautiful' ('éy 'good'), qel-á·mex<sup>y</sup> - qel-eì-á·mex<sup>y</sup> 'ugly' (some say qeleiá·mex<sup>y</sup> means 'clumsy' instead)(qél 'bad'), '?cly-á·mex<sup>y</sup> '(plu-ral/all) good-looking' (-l- infix 'plural'), te?-á·mex<sup>y</sup> '(to) look like, resemble' (s-tɛ?é - s-te?é 'be like, be similar to')(ChehaIis + Tait have st'ɛt'-á·mex<sup>y</sup> 'look like, resemble' and root st'é 'be like, be similar to'), selcí·m-emex<sup>y</sup> 'how does it look?, what does it look like?, what color is it?' (selcí·m 'how is it?').

-\(\frac{1}{2}\) (material for)'; s-y\(\frac{1}{2}\) s-\(\frac{1}{2}\) 'firepit, fireplace' and s-yeq\(\frac{1}{2}\)-\(\frac{1}{2}\)-\(\frac{1}{2}\) 'tinder, material used to
start fire (fine dried cedar bark)' (y\(\frac{1}{2}\) 'burn', -\(\frac{1}{2}\)
'container', -\(\frac{1}{2}\)-\(\frac{1}{2}\) 'medicine'), possibly mamfye-\(\frac{1}{2}\)-\(\frac{1}{2}\)
'helper' (m\(\frac{1}{2}\)-\(\frac{1}{2}\)-\(\frac{1}{2}\) 'help s-o', memfye-t 'helping s-o',

-tel 'reciprocal').

-&:ltel 'medicine': xweq; ele-?&:ltel 'hangover medicine' (probably xweq; ble 'scouring rush, horsetail fern'), 0'el-?&:ltel 'heart medicine; juniper' (0'&le 'heart'), and syeq t&:ltel 'tinder' as seen in the last suffix set.

-elá·t 'female name' (this and the next three suffixes probably show -á·t, -át 'female name'): q'ewq'ew--elá·t 'name of a female loon in a story' (compare q'ewq'ew-eléce 'name of the male loon in a story', and q'éwq'ewe 'Kawkawa Lake'), qewéstelàt 'kind of deer (probably female)', c'símtelat 'name of one of Mt.

Cheam's sisters, now a name of Celia Thomas'(c'sím-t 'grów s-th'), siyém-telat 'Indian name of Teresa Michell' (siyém 'leader, chief'), e'tístelat 'Indian name of Mary Andrew (Susan Peter's deceased sister, wife of David Andrew of American Bar)', k<sup>W</sup>eléxy-telat 'Indian name of Mabel Peters' (< k<sup>W</sup>elxyámé 'fine snow that drifts in windows or doors'). All examples but the first probably are better analyzed with -tel (gloss uncertain here) + -á(·)t or -at 'female name'.

-ełát 'female name': xwáyłat 'Indian name of Amy Cooper's mother's mother', ?álm-ełát ~ ?ślme-là·t 'Indian name of Amy Cooper's father's mother and of Amy's granny Laurencetto's oldest twin', kwaxwiłát 'Indian name of Miss Susanna Jim from Katz, grandmother of Mrs. Duncan (Dorothy) Wealick'.

-emat 'female name': xwiyél-emat 'Indian name of Tillie Guttierrez', siyém-át 'Indian name of Susan Peters', siyém-át 'Indian name of Philomena Kelly', c'ekwiál-emat 'Indian name of Mary (of Tzeachten, wife of Casimir of Chehalis, great grandmother of Nancy Phillips of Chehalis)'.

-ewat 'female name': ?áy-ewat 'baby sister of Mt. Cheam; also Indian name of Amy Cooper'.

-elwet 'female name' (probably = -elwet 'garment, clothes'): 'aláx'-elwet 'sister of Mt. Cheam', t'elfx'-elwet 'Indian name of Isabel (Mrs. Jimmy Church); Indian name of Darlene Guttierrez', q'watás-elwet 'Indian name of Mary Anne (of Chehalis); Indian name now of Jennie Peters (daughter of Nancy Phillips)', peláq''-elwet 'Indian name of Annie, wife of Charlie Siyamelélex''.

-elece 'male name'; q'ewq'ew-elece 'male loon in a story', t'ix -elece 'Indian name of Chief Albert Louie's father', 0'-elece 'Indian name of second oldest Wealick brother', 0'-elec-iyetel 'Indian name of Richard Malloway Sr. (of Sardis)', lex-elece 'Indian name of Jimmie Swiweles'.

-iyetel 'male name': 'alax -iyetel 'male name ver-

sion of 'aláx w-elwet', xemáe'-iyetel 'male version of Indian name xamáe'-iye', ssléq'-ayetel 'Indian name of David (Matilda David's husband)', e'eléc-iyetel 'Indian name of Richard Malloway Sr. (prominent chief in Sardis)'.

-elflex, -elflex, male name': siyam-elflex, 'Indian name of Charlie Siyamelflex, (said to mean) head of the house, superior of the house, the house of the house, the house of the house, the house house, the house house, the house house, the house house, the house house, the house house, the h

-£ylém, -flém 'male name': yex\*-£ylém 'Indian name of the 3rd from oldest original Wealick brother' (yéx\* 'untied'), qeyp-flém 'Indian name of August Billie'.

-0et 'male name' (probably = -0et 'verbalizer' or -0et '-self, reflexive'); há·yk'-0et 'Indian name of Feter Williams of Chehalis (died about 1921, great grandfather of Tillie Fhillips)', siyálewe-0et 'Indian name of Roy Point from Scowkale'.

-eleq 'male name' (probably = -eleq 'one who, a \_\_\_-er');

\$\tilde{x}\tilde{y}\tilde{t}-eleq 'Indian name of an old man from Kilgard (a

strong warrior and Indian dancer, in a battle he once

punched through a man's chest)' (\$\tilde{x}\tilde{t}\tilde{t}' \tilde{w}\tilde{x}', \$\tilde{x}\tilde{y}-t-em' \tilde{g}\tilde{t}'\tilde{t}' \tilde{t}' \tilde{w}\tilde{x}', \$\tilde{x}\tilde{y}-t-em' \tilde{g}\tilde{t}'\tilde{t}' \tilde{t}' \tilde{x}' \tilde{x}' \tilde{t}' \tilde{x}' \tilde{t}' \tilde{x}' \tilde{t}' \tilde{t}

-(im) eltx 'male name' (possibly means 'house' or

'wives'): swelfm-eltx 'Indian name of Ed Leon Sr. (of Chehalis, B.C.)' (cp. suffixes for house').

-&-yel, -iyel 'net', -ú-yel 'trap, net': mfl-iyel 'set a net', semlél-iyel 'a set net, stationary net' (cp. seml-á@(-)el 'riverbank'), mes-fyel-tel 'anchor (probably for nets)', qws-&-yel 'throw a net out' (qw6s 'fall overboard, fall in the water'), qws-&-w-iyel 'set a net and drift with it' (the -&-w may mean 'on top of itself', see 5.2.4), qw6s-el-iyel 'drifting a net in different places' (-el- probably 'plural'), qws-ú-yel 'drop net into water' (gloss perhaps doubtful), 'is-téyt-iyel 'group of canoes travelling upstream (moving to fish drying camp)' (tfyt 'upriver'), ps@-ú-yel 'bear trap' (s-p&-@ 'bear'), k'wec-ú-yel 'check a trap or net (for animal or fish [or bird])'.

-em '(nominalizer)': k'\*q'-6m 'small hatchet, small axe' (k'\*a'q'\*-et 'club s-th or s-o, hit s-th (or s-o) with stick-like object'), c-q'\*e'y-cm 'lemon extract' (color + yellow + whatever -em means), c'-q'eyx-em 'vanilla extract' (color + black + ?), q'\*ey(e)x-em 'whirlpool' ('black' + -em), s-yelyelis-em 'icicle' and yelyelis-em 'many icicles' (yélés and -elis 'tooth, teeth'), q'els-yéq-em 'snowdrift' (twisting + snow + ?), qsyqsyx-elá-s-em 'ray of sun from between clouds' (qsyqsyx-elá-s-em'ray of sun from between clouds'

xweylem 'rope, thread, string' and a few others.

-p' 'on itself, within itself' and -q' 'on s-th else, within s-th else' (these two suffixes are discussed together because two pairs of words show their difference in meaning); q'elq'61-p' 'tangled on itself (for ex. a net in the water)', a'ela'él-a' 'tangled on s-th else, snagged (as a net on a log or branch)', a'ela'él-a'-t 'coil it', s-a'el-é.w 'coiled (of a snake)' (-£.w and -i.w '(on top of itself)' see below), q'elq'el-p'-f'w 'inchworm' (-f'w is preferred to the version with -i.ws 'on the body' given as an example under the later somatic suffix). s-q'elq'él-p'-eq" 'curly hair', xey-p'-et 'scratch it (and leave a mark). scrape it, claw it', xey-q'-et 'scratch it (to itch it)'. xéy-m-et 'grab it', s-lel-p'-á·y0el 'sloppy lips, flabby lips' and s-tol-tol-p'-f-live 'sloppy ears' (compare s-161-lec 'rump. buttocks' (/s161.ec/) which must mean something like '(fold(ed) at the bottom)' while s-tel-p' means something like '(folded on itself)').

-fleq 'one who, -er': 'f'wes-fleq 'a guide' ('f'wes-t'guide s-o, teach s-o, show s-o'), fetew-fleq 'a healer, an Indian doctor or medicine man at work' (fetew 'working or curing (of an Indian doctor on a patient)', skwukwel(-)st-fleq 'school teacher' (skwut' school'), perhaps slec'-fleq 'spouse's sibling's spouse' - 'step-

sibling' (lec' - lec'- 'different');

-& 'overly': k' es-& 'overheated' (k' & k' es 'hot', k' es- 'get burned'), sel-& 'tight' (sf.l- es- 'spin').

-6.wes, -6.wes, -6.wes 'canoe paddle': xyec'-6.wes

'store canoe paddles away' (xyec'-6t 'store s-th away'),

xyec'-6.wes-tel 'January moon, time to store canoe

paddles away', pot-6wes 'oar' (p6t < English boat),

xwsl-xy-6wes 'lift a paddle (while paddling)' (xwsl-xy

'lift s-th'), c'elc'el-6ws-em - c'6lc'el-ces 'repeatedly switching sides in paddling' (R 'plural' + c'el
'switch' + -6wes 'paddle' + -em '(middle voice), one's

own', or plural + switch + in the hand), yem-6wes-tel

'wide cedar root strips for baskets' (yem- 'wide strip'),

and see also under numeral classifier affixes (this

suffix is so used) and numerals.

-éyiws 'pants' (probably < -é·y 'bark' + -í·ws
'covering'): s(ə)q-í·ws or sq-éyiws 'pants' and
siseq-í·ws or siseq-éyiws 'short pants', k'ík'ep-l-è·yiws
'man's underpants' (k'ép 'down, deep, under-', 'diminutive' prefixed reduplication, -l- possibly 'plural'),
tasem-éyiws 'pants sliding down' (tás-em 'slide down
(of clothes)'), and see numeral classifier affixes.

-£·mel 'part, member, nick-' (related to somatic suffix -£·mél 'part, member'):  $k^W e k^W x^V - £ \cdot mel$  'nickname'

(s-kwixy 'a name', thus 'nickname' < 'a part name').

-mexw 'people': lec'-6'-mexw 'different people'
(used for different tribes or nationalities)(lé'c'
'be different'), xw61-mexw 'Indian' (xwel 'just, only'),
s?&1-mexw 'water babies, water pygmies', possibly
st'61-mexw 'medicine' (root meaning unclear), cf'-t-mexw
'big horned owl', and syiwlméxw-ces 'rattle used at
spirit dance by some dancers' (s-yfw-el 'spirit song,
spirit power').

-tel 'person': 'owé-tel 'nobody' (only example).

-\$\( (\cdot) y \), -\$\( (\cdot) \), -\$\( (\cdot) \), -\$\( (\cdot) \) place to lay or rest or sleep':

\( (\cdot (\cdot) \), -\$\( (\cdot) \), -\$\( (\cdot) \) place to sleep or lay or rest'

\( (\cdot (\cdot) \), -\$\( (\cdo) \),

-elecé·ls, -elesè·ls 'plants, grass': łéc'-elecé·ls '(to) cut hay' (łíc' '(to) cut'), łé·lt-elecé·ls 'spraying water on the garden' (łá·lt '(to) spray', łélt-es-t 'splash/spray/flip s-o with water in the face'), Chwk. s-pápex "-elsè·ls, Tait: sx"-pápex "-elsè·ls 'spraygun (for plants)' (páx "-et 'blow on a patient (done by Indian doctor)').

-£mec', -£me0', -á·me0', -eme0' 'pole, stature, upright, standing, height'(c' from idiolects which

usually replace 0, with c, in most words (EL. TM)): ?isfl-fmac, 'two poles standing up' (quoted in section on numeral classifier affixes)(?isé:le 'two'). xyelk, w-fmee, 'round (of a pole)' (xyelk, w-á.ls 'spherical'), s-gew-é·me0' 'side of tree first warmed (by sun)' (root means warmed'), s-xé·lc'-eme0' 'grown twisted (of a tree)' (s- participial, xé·lc' 'twist'). ?Ey-£.me0' - ?Ey-£.mec' 'good figure, good shape; straight (of stick), smooth (of wood, etc.)', \hata et-á mee' 'tell (of a person)' (\(\lambda'\epsilong'\), c'f.\(\lambda'\-\epsilong'\) 'short person' (c'f.c'ek' 'short'), xam-á.0'-iye 'baby sister of Mt. Cheam' (see under -iys above), and possibly c'fl6160'-x el 'short-legged runt' (insulting) (root form unclear unless c'é. 'on top of, astride'). -f.m 'repeatedly': c'&c'ak'-i.m 'jumping up and down, jumping along' (c'é'h'em 'jumping'), tèti'm 'hollering more than once' (té·m 'holler, yell'), sx -tstí·m 'telephone', t'éc'-exel-í·m 'mistake in splitting roots (for basketry) by making them uneven' (t'éc' 'split stick for stretching salmon to dry'). xW-tiyt-1.m 'eddy water (where one sets nets)' (tiyt 'upriver'). x welk, w-1.m 'en eddy' (x welk, w 'to eddy'). s-lec'-f'm-61 'a comb' may belong here as may s-k'eqt--f.m(s) 'length' (k'f.gt 'long') and xyc'-f.m-0et '(smell oneself) always smell bad' (xyixyec'-em 'stinking!).

-áysq 'trunk or root?': st'it';-áysq 'fork in a tree or root of a tree' (s-t'é; 'fork (in anything)') (only example).

-á·lweł 'side, -ward' (related to 'f·lweł 'side'):

s-\*'ep-á·lweł 'below, underneath' (s-\*'ép 'deep, etc.'),

s-cel(-)s-á·lweł 'over s-th' (cíceł 'above, high'),

s-kwetxw-á·lweł (t'á·mél) 'carved post inside longhouse'

(DM)(possibly 'inside wall' as t'á·mél is 'wall'),

sle?-á·lweł 'on the other side' (sle?-á@el 'across',

sle?-á·les 'facing away, watchful', but le?' 'go via,

go through somewhere (en route)' suggests the root /l/

may be mistranscribed for lin the preceding three

words), sleq?-á·lweł 'one side of body (between arm

and hip)' (leq?-é·t 'wide'), also compare: s-?sy-í·ws

'f·lweł 'right side of the body' and s-0'ſkwe 'f·lweł

'left side of the body'.

-6·m, -6m 'strength': ?ey-6m 'streng' (?éy 'good'), qsl-6·m 'weak' (q61 'bad'), x\$-6m 'tired' (x6% '(to) hurt. ache').

-ts 'thing' (related to demonstrative article te):
'owé-ts - wé-ts 'nothing' ('ówe - 'éwe '(be) no, not')
(only example).

-elp, -f.lp 'tree, plant' (see morphophonemics for rule predicting -f.lp allomorph)(see numeral classi-

fier affix section for the suffix in that function) (very productive, over 50 examples found so far):  $x\xi(\cdot)y\theta$ '-elp 'alder tree'  $(x\xi(\cdot)y\theta$ ' 'unripe'). owe?á·p-ełp '(crab)apple tree' (owe?áp '(crab)apple'). sk, w6.lmex -etp 'blackberry vine (or bush)' (sk, w6.1mex 'blackberry')(if a plant has fruit, the -elp can be dropped to obtain the word for the fruit). celqá·m-é·±p 'blackcap bush' (celq-á·me 'blackcap'). msc'fy-etp 'black hawthorn tree' (msc'el 'black haw berry'), xpé(\*)y-elp 'red cedar tree' (xpé·y 'red cedar bark and wood'), qf.lq-alp 'wild rose bush' (qf.lq 'rose hip'), cewó·w-elp 'cottonwood tree', t'é·c'-elp 'pink spirea' (used for t'é.c' 'crosspieces for drying fish'), c'q' -etp 'spruce tree' (c'éq' 'poke, pierce, stab'). ?elil-&: p 'salmonberry plant' (?elile 'salmonberry'), 0'estiy-elp 'poplar tree' (0'és-tel 'metal nail'), s-0-6.to 'big tree' (0 or 01- 'big').

-é·lc', -elc' 'twist, turn around': xélc'-t 'turn or twist s-o or s-th', x-élc'-6et 'turn oneself over or around', s-x-é·lc' 'turned around; turned the wrong way', s-x-é·lc'-eme0' 'grown twisted', s-t'emry-é·lc' 'a braid' (t'éméx' 'to braid'), q'eyq'-elc'-iyés-em spehé·ls 'whirlwind', siselc'-iyés-em 'turn around in a circle' (sísel- 'spinning' (síl 'spin' + R) + -elc' 'twist or turn around' + -iyés 'in a circle' + -em

'middle voice (by or for itself)').

-6xy 'upright, erect': '7fm-exy 'walk' ('?f(')m-et 'step on s-th', thus 'walk' < 'step upright'),

\[
\frac{1}{2}\text{exp} - \xi \text{y} - \xi \text{stand up'} (\frac{1}{2}\text{exp} - \xi \text{upright'}),

\frac{1}{2}\text{exc} - \xi \text{y} - \xi \text{stand up'} (\frac{1}{2}\text{exp} - \text{upright'}),

\[
\text{etc.}, \text{above} + -f'\text{1} 'go, \text{come}, \text{get'} + -\xi \text{y} 'upright'),

\[
\text{x} \text{wex} \text{w-f} - \xi \text{y} 'get up with quick motion' (\text{x} \text{wex} - 'sudden' 'as in s-x \text{wex} - \xi \text{s' thunderbird, thunder' i.e. 'sudden'}

\[
\text{face'} + -f'\text{1} 'go, \text{come}, \text{get'} + -\xi \text{y}', \quad \text{q'wey-fl-6x} \text{y'}

\]

'dance' (root uncertain unless related to \quad \quad \text{y'y-shake'}),

\[
\text{k'} \xi \text{fl-6x} \text{y-t' shoot s-th'} (\text{k'wel-'hold in hand'}), \text{w} \xi \text{-1-x} \text{y'}

\]

'throw upward' (s-\text{w} \xi \text{ls 'a scramble, scramble-giving})

(gifts are thrown upward towards a crowd and they scramble for a piece)'), \text{t'} \text{-6x} \text{y'} (to) braid' (root unclear).

-é, -ém 'using a \_\_\_': q'ew-é - q'ew-ém 'using a cane, walk with a cane' and s-q'ew-é 'person with a cane' (q'éwe 'cane, staff'), tex w-mel-ém-cel - s-mel-ém-cel 'I adopt a child' (tex w-méle 'step-child'), and e 'éyé'm 'marry a sibling of deceased spouse' (e'éye's 'sibling of deceased spouse'.

-£·leq, -eleq 'waves':  $\Thetai\Theta$ -£·leq 'waves are getting bigger' ( $\Thetai\Theta$ -'bigger', -h epenthetic), Seabird Island dialect: sm£·y-eleq 'wave' (root meaning unclear),  $x^y$ -et-£l $\Phi$ ( $\Theta$ )-tel 'sinker line' ( $x^y$ £·t 'a sinker, lead weight, lead'), s\*'ep-£·leq 'underskirt, underslip' (i.e. 'under-waves').

-eł 'according to the ways of the, in the way of the': s-xwelm6xw-eł 'according to the ways of the Indian, in the way of the Indian, in the Indian way', s-xwelftem-eł 'in the white man's way, according to the ways of the white man'. (Only examples so far).

-(?)&vyts '(wooden?)': mimele-?-á·yts 'doll'
(mímele 'baby, tiny child' (< R4- 'diminutive' + méle
'child'); -á·yts may be related to s-yá·t 'firewood,
wood', s-yá·yt 'little firewood, little stick of wood',
and s-yéyet 'gambling stick (in slehal)'). (Only example).

-á·lł, -?á·lł (-? epenthetic after vowel) 'young': (3-4 yrs.)
swi(ye)qe-?-á·lł 'box', siwi(ye)qe-?-á·lł 'boys' (<
swi(ye)qe 'man, male'), słeliy-á·lł 'girl child' and
słelłliy-á·lł 'little girls' (< słé·li(y) 'woman, female'),
mèmele-h-á·lł 'bird egg' (mémele 'children (kinterm)'),
s-mimele-h-á·lł-é·lé 'nest of a little bird', stiqiw-á·lł
'colt, baby horse', műsmes-à·lł 'calf', tépeł-élł 'board
'proj it up'
for stretching small hides (squirrel, etc.)' (tpáł-t.).

-0½ 'young' (obviously related to -á·l½ and -í½
'baby, child, young'): s-½'fx'oq-0½ 'child' (R<sub>4</sub>- 'diminutive', root meaning unclear), s-té·x<sup>w</sup>-0½ 'children'
(root meaning unclear)(this suppletive pair are age terms not kinterms).

5.2.4. Marginal cases.

-q '(closable container)': qp'ε·-q-et 'cover it

with a lid, close it (of a box, etc.)' (qep'&-lec-tel 'a cover or lid', qep'-á·ye-eà·m 'you get covered on the mouth'), xw-m&·-q-et 'open it (box, bottle, closable container)' (xw-m&·-xy' 'open it (door, gate, anything)'), mee'el-q-f·wel 'woodtick' (pus + inside container + on the insides).

-amet 'costume': s-lew-amet 'entire costume of a dancer (spirit dancer--cld or new, sx wayx sy dancer, etc.) from head to toe' (s-lew-iy 'inner cedar bark' may be root)(this is only example).

-el '-ish' (this semantic element may be signaled by reduplication in the examples; then -el would have to be 'verbal' or < -f·l'gd'): c-q'\*fq'\*ex(\*)-el 'brown-ish-black' (c-k'\*fyex\* 'brown', c-q'\*exx 'black'), s-q'\*fq'\*ex-el 'getting blackish', qeyqeyx-el-a 'shadow' (c-q'\*exx 'black'?), s-q\*aq\*iy-el 'yellowish' (q\*ay-el 'get yellow, be yellow' has -el < -f·l'go, come, get' and Aa (a-ablaut) from c-q\*exy 'color yellow'), stitee-el 'puny' (stif·e 'thin, skinny');

-á·l 'just, (exactly)' (related to ?ál 'just, (exactly)'); 'iy-á·l-em 'okay, right, correct, alright' ('iy- is bound form of 'éy 'good').

 $-\ell \cdot lx^{W}$  '(leaves)': tem-hil- $\ell \cdot lx^{W}$  'autumn, fall' (hf·l-em '(to) fall (tumbling)').

-é·w '(on top of itself)': s-q'el-é·w 'coiled (of

snake)' and s-q'elq'el-&'w 'coiling (of a snake)(ready to strike)' (cp. q'elq'el-q'-t 'coil it', q'elq'el-q' 'tangled on s-th else', and q'elq'el-p' 'tangled on itself'), q'elq'el-p'-f'w 'inchworm', qws-&w-iyel 'set a net and drift with it'.

-£t 'one out of': mek' -£t 'somebody' (mék' 'any-body').

-e0 '(stripes?)': s-k<sup>W</sup>fm-e0 'little roundmouthed sucker-fish (many have red stripes)' (c-k<sup>W</sup>f·m 'red color'), s-xé·m-e0 'cottonwood sap' (~ c'ic'em-é·weł) (xè·m 'crying').

One-fourth of all the lexical suffixes found in this chapter begin with el, s(·)l or a(·)l, including:
-£léqel, -£lmél, -á·les, -£·lí·yɛ, -(e)(l)qs(el),
-£l·es (- -elfs), -eléxel, -£·lwes - -£lwes, -(e)lec,
-£lqel - -elqel, -elsxy, -elwet, -£·ltex, -(e)ltx, -(e)lce, -£léqep, -£·lews, -£·ltel, -elá·t, -eléc, -el£lex, -eleque, -£·lev, -£·lev, -elé·t, -eléce, -el£lex, -á·lwet, -£·le, -elc, -elc, -£·leq - -eleq, and -á·lt. Some of the initial vowel + l elements show signs of being optional. It seems like the vowel + l may have been a grammatical marker of some kind whose meaning can no longer be recovered.

## CHAPTER 6. VERBS

## 6.0. Introduction.

6.0.1. Verb versus nominal. Halkomelem word classes have already been contrasted and defined to some extent in Chapter 3. But since some Salish languages have been described as having shadowy if not non-existant borderlines between verbs and nouns or nominals, it seems appropriate here to contrast further the Upriver Halkomelem verbs and nominals. The traditional semantic criteria can be used, i.e., words for people, animals, things are nominals, while words for doing things, being something or things happening are verbs. Thus x Welmex "Indian', memele 'children', Méli 'Mary', sqəlé-w 'beaver', músməs 'cow', léləm 'house' and sweyel 'day' are nominals; lem 'go, going, go to, going to', ?iwalem 'playing', xe'm 'weep(ing), cry(ing)', '£10& 'it's me', '£y 'be good', stetis 'be near', p'eq'éyl 'get white, turn white', and 0'á0'elem 'getting chilled, being chilled' are verbs. Semantic criteria can be used because the distinction is semantic in part and because words are classed into the same word classes (N or V) by morphological and syntactic criteria as well.

Morphologically, some affixes can be added only to derive or inflect nominals, and some can be added only to derive or inflect verbs. Thus if a word has one of these affixes it can be classed as a nominal or a verb. For example, words with the following affixes added last in their derivational or inflectional histories are nominals: s- 'nominalizer' (except where used with R to derive participial verbs), sx "- 'nominalizer', -tel 'device, tool', -etp 'plant, tree', -£·lews 'leaf', -(?)á·lł 'young', -á·t 'female name'. -elece 'male name', -R,- 'pet name', -s '3rd person possessive pronoun'; words with the following affixes added last are verbs: subject or object pronoun affixes, we- 'when; if', transitivizers (including control suffixes), intransitivizers, continuatives R, A and he- - he-, -tel 'reciprocal', reflexives -lá·met and -(0)00t, -cs 'future', -01c 'benefactive'. These are not exhaustive lists.

Syntactically, a nominal (unless used vocatively) is always preceded by a demonstrative article; the article (and in some persons the nominal) can be inflected for possession. However, a verb or verb phrase must first be nominalized to be treated thus. Verbs on the other hand can be inflected with subject and object pronouns and many other inflectional suffixes; nominals cannot be inflected with any of these strictly verbal suffixes. (Subject pronoun suffixes can be suf-

fixed to nominals but only to animate nominals, and when this is done the nominal becomes a verb;  $x^{W}$ 6lmex $^{W}$ 'Indian',  $x^{W}$ 6lmex $^{W}$ cel 'I am an Indian'; the -cel converts  $x^{W}$ 6mex $^{W}$  to a verb, 'be an Indian'.) Thirdly, in the simple declarative sentence (or phrase) with both nominal and verb, the verb precedes the nominal. For example: 1£m to músmes. 'The cow is going.' is going the cow

V N

many toes near
V N V N your hand.

lép' -exy -es te -1 méle te s- k'\*6'lmex\*.

eat them he the my child the (nom.) blackberry
obj. subj.

N N

'My child eats the blackberries.'

This order even obtains in some questions:

lf-cx k, % 6c -l -ex e e Súsel lf te x e to obj. (f.)

'Do you see Susan in the path?'

6.0.2. Transitive versus intransitive. Within the verb word class in Halkomelem there is a very dis-

tinct division into transitive verbs (Vt) and intransitive verbs (Vi). All verbs without an overt transitive suffix are intransitive verbs. Many intransitive verbs are also overtly marked by an intransitive suffix. Unlike English (where transitivity and intransitivity are largely shown only by syntax and where many verbs can be either Vt or Vi depending on syntax), Halkomelem has only a tiny handful of verbs that can be either Vt or Vi without changing suffixes. Further differing from English, Halkomelem treats the following as intransitive verbs: adjectives (including participles), noun-statives (translated by 'be' + nour), adverbs, interrogatives, some sets of personal pronouns, some demonstratives, and most verbs with lexical object affixes. Each of these types will be dealt with in a separate section in this chapter.

Lexical affixes sometimes have a nominalizing effect (téy 'to canoe-race' + -owel 'canoe'  $\rightarrow$  téyowel 'a race canoe', cák" 'be distant, far' +  $R_1$  + -á·les 'in the eye'  $\rightarrow$  cack 'á·les 'goatsbeard plant (whose blooms can be seen from far away)'), but more often they do not change the word class of the stem (k' 'aq' 'hit with stick-like object' + -á·les 'in the eye'  $\rightarrow$  k' 'q' 'a·les 'hit in the eye with a stick-like object', k' es 'burned (of skin)' + -á·yeel 'on the lip or jaw'

> k'\*esá'yeel 'burned on the lips'). An interesting paradox is the fact that lexical affixes often provide verbs with semantic objects (hit eye with stick) but do not make verbs transitive syntactically. One cannot say'k'\*q'\*\*d'les te qélém or 'k'\*q'\*\*d'les te Bill (where te qélém is 'the eye'); in fact k'\*q'\*\*d'les cannot take a syntactic object of any kind unless it is first transitivized (k'\*q'\*\*d'eles-T-es tûk'à te Bill 'he hit Bill in the eye with a stick'). The fact that it can be transitivized (and must be to take an object) shows that the lexical affix is morphologically intransitive. Many lexical affixes can be attached to nominals as well as to verbs (qá' 'water' + -á'les 'in the eye' \rightarrow qe'\*á'les 'tear', s- 'nominalizer' + ceł 'above, high' + -á'yeel 'lip, chin' \rightarrow scelá'yeel 'upper lip').

6.0.3. Types of verbs, roots, and stems. A root is what remains when all derivational and inflectional affixes have been removed from a word. A stem is what remains when only the inflectional affixes have been removed. Verbs can be classified according to the word class of the root (root type), according to the type or combination of types of its derivational affixes (stem type), and according to the syntactic and semantic function of the verb (verb type).

As seen in 6.0.2, the verb types include:

1. Vt (sub-grouped by which transitivizer they have),
2. plain Vi (sub-grouped by the lack of or type of
intransitivizer they have), 3. adjectival Vi, 4. prepositional Vi, 5. adverbial Vi, 6. interrogative Vi,
7. personal pronoun Vi, 8. demonstrative Vi, and
9. auxiliary Vi. These nine verb types will be discussed in 6.1 and following.

Root types. Verb roots without derivational affixes are plentiful. These include most types of intransitive verbs, for example: yéq\* 'burn', ?é·l' 'get aboard', t'éyəq' 'be angry', hf·k\* 'be big', ?éwə - ?ówe 'be not, not be', yewé·l '(be) first', qé·ys 'lately, recently', lf 'at, to, in', telf 'from; than', ?ɛlécɛ 'where (is it)?', k'\*f·l 'how many (are they)?', selcf·m 'how (is it)?', ?£lee 'it's me', léwe 'it's you' (?£lee and léwe are actually personal pronouns with Vi qualities), ?f· 'be here', lf· 'be there', lf(·) and ?f(·) auxiliaries.

Verb roots with derivational affixes come from all word classes except the particles. A number of verb roots are only attested with one derivational affix and never without a derivational affix; for these the word class of the root is unclear sometimes, unless the affix is attached only to predictable word classes or never changes the word class. More frequently verb

roots are attested in other derivational environments or as stems themselves. Most of the time these roots are shown to be verbs; less often they are nominals; a handful each are demonstratives or personal pronouns, and one is an attested numeral (it can be assumed that the other numerals can function the same way). Some examples follow.

Verbs as verb roots: cit- 'high' (as in cit-eq" '(high hair), bushy and uncombed hair') + -R1- -> cfcel 'be above, be high', c'eq' 'poke, pierce' + -6.wel 'cance, vessel, (basket)' → c'eq' o'wel 'weave a fine cedar root basket', pá·y- 'bend' + -T 'nurnoseful control transitivizer' + Ø '3rd person object' -> pa.yt 'bend it', pa.y- 'bend' + s- and R, 'participial' -> spápiy 'crooked', k' wáq - 'club, hit with stick-like object' + -aT 'purposeful control transitivizer' + Ø '3rd person object' ⇒ k, Wad ot 'club s-o, hit s-th or s-o with a stick', -tem 'what?' + s-'nominalizer(?)' → stém 'what?, what is it?', -tém 'what?' + tom- 'time' -> temtém 'when (is it)?'. yéq'-'fall (of a tree)' + R1 'continuative' + - els 'intransitivizer' -> yéyeq'els 'falling (of a tree)'. yéq'-'fall (of a tree)' + -aT 'purposeful control Vf.' + Ø '3rd person object' -> yeq'et 'to fall/fell a tree'. t'ék" 'be mired' + -1'les 'in the chest' -> t'ek"1'les 'choke on food'.

Nominals as verb roots: q'ewét 'a drum' + -em
'intransitivizer' >> q'ewétem 'to drum (for s-o)',

0'éys 'sibling of deceased spouse' + -é·m 'to use' or
'intransitivizer' >> 0'éyé·m 'to marry sibling of
deceased spouse', sqem61 'pit house' + -f·1 'go, come'

>> sqemf·1 'be inside a pit house', qá· 'water' + -em
'intransitivizer' >> qá·m 'dip water, fetch or pack
water', mé·1s 'bait (nominal)' + -(e)T 'purposeful
control Vt' >> mé·1st 'bait it', mék³ - mók³ 'all,
everyone, everything' + -éT 'purposeful control Vt'

>> mék³ - mok³ 'take it all, pick it all up',
06·t 'darkmess' + -f·1 'go, come, get' >> 0etf·1
'go dark, get dark', qá· 'water' + derivational R<sub>1</sub> >>
qá·qe 'to drink'.

Personal pronouns as verb roots: ''εθε 'it's me' + R7- 'emphasis' → ''ε'εθε 'it's really me', léwe 'it's you', etc.

Demonstratives as verb roots: 'f. 'be here' + xwe- 'become, come to'  $\rightarrow$  xwe'f. 'come to be here, come here, arrive' + -1 'happen to, manage to (control transitivizer)' + -exw 'ord person object'  $\rightarrow$  xwe'f.lxw 'bring s-th here', similarly lf. 'be there' + xwe- + -1 + -exw  $\rightarrow$  xwelf.lxw 'bring s-th there, get s-th there'.

Numerals as verb roots: 'apel 'ten' + A + -es

'dollars' 
?epá·les 'ten dollars' + -sT 'causative (control transitivizer)' + -ex 'jrd person object (meaning neutralized?)' + -es 'jrd person subject' 
?epaléstxwes 'it costs ten dollars' (possibly 's-o causes s-th to be ten dollars').

Stem types. If transitivizers and intransitivizers are considered derivational (as they seem at times), then this section would have the task of cataloguing and exemplifying their various combinations with lexical affixes and the derivational infixes R, A, and K. But we are saved the trouble because transitivizers and intransitivizers are inflectional instead, for a number of reasons: they are obligatory (with Vt's and participles for example), they form contrasting oppositions with each other, and they interact with pronominal suffixes ('3rd person object' is -ex' after -1 and -sT, -Ø after -T, -meT, etc.).

Verb stems then consist of roots plus (or minus) combinations of lexical affixes, derivational infixes of R, A, or K, and in a few cases petrified transitivizers. There are no cases of roots being suffixed with transitivizers and then with intransitivizers and no cases of the reverse process. The few cases of petrified transitivizers are as close as one comes, and these may well be part of the root and not affixes

at all: qweet 'belch', xeleq't 'open one's eyes',

teq'et - leq'et '(be) wide', qelet 'again', ?e'y(e)lexw
'alive' (cp. ?e'y 'keep on going'), ?e'y(e)lexw-sT-exw
'keep s-o alive', and ?e'y(e)lexw-lexw' 'bring s-o back
to life, revive s-o'.

Vi stem types include naked roots and roots affixed with: R, R + -X (where X = lexical affix), R + A, X - + A (+ -X), K + -X, X -, and (X -) + -X (+ -X). That means that no more than two lexical suffixes have been found so far on a single stem, but stems have been found with one or two lexical suffixes plus a lexical prefix. Vt stem types include naked roots and roots affixed with: R, A, X - (+ -X), -X (+ -X), and probably others. Here again never more than two lexical suffixes are found on one Vt stem. Many examples of various stem types can be found in the chapters on lexical affixes and on morphophonemics (under reduplication, vowel ablaut, and consonant ablaut).

## 6.1. Verb Inflection. Outline:

- 6.1.1. Personal Pronouns: as in Chapter 4,
- 6.1.2. Transitivizers (Control Suffixes) + Intransitivizers,
- 6.1.3. Beneficiary Suffixes: benefactive, reflexives, reciprocal,
- 6.1.4. Aspect: continuative, non-continuative,

- 6.1.5. Participles,
- 6.1.6. Voice: active, middle, passive,
- 6.1.7. Mood: subjunctive (when, if, uncertainty, negation). imperative. interrogative.
- 6.1.8. Tense: present, past, future,
- 6.1.9. Plural and Diminutive: plural object, plural subject, plural action, plural action completive, repeatedly; diminutive,
- 6.1.10. Internal Syntax and the Co-occurence of Verb Inflections.
- 6.1.1. Personal Pronouns. Subject and object pronouns are suffixed onto verbs as seen in Chapter 4 (sections 4.4, 4.5, 4.8, 4.9, and 4.10). Little more needs to be said except to point out in a few cases those inflectional endings which require or exclude certain pronoun sets (this will be done in 6.1.5—6.1.9) and to specify where the pronoun sets fit in the internal syntax of the verb (this will be done in 6.1.10).

## 6.1.2. Transitivizers (Control Suffixes) and Intransitivizers.

6.1.2.1. Control suffixes are transitivizers which indicate whether the subject had full control of the verbal action (did it purposely), had little control of the verbal action (did it accidentally, happened

or managed to do it), or had control over someone else's action and caused someone to do it. The control suffixes are the only transitivizing devices in Upper Stalo dialects of Halkomelem. Since they are obligatory with all transitive verbs (Vt) and a decision as to degree of control must be made for each Vt, control suffixes have the status of grammatical inflection rather than derivation. The six that have been found so far are:

- -(e)T -éT -á(·)T -é(·)T 'do purposely to s-o/s-th'
   -1 'do accidentally, happen to do, manage to do to s-o or s-th'
- -sT 'cause it (or s-o) to do, make s-o or s-th do'
  -(e)xy 'do purposely to s-th or s-o (especially to an
  inanimate object)'
- -meT 'happen (with little control) to do an action not directly affecting s-o or s-th'
- -(e)les '(accidentally, happen to, manage to) do to s-o or s-th'

The meanings given for these suffixes are seldom overtly translated as given here. The usual case is for these semantic elements to combine with the root or stem meaning, to yeild a gloss more succinct than the sum of its parts. For example, ?&·y-st-ex\*

'chase s-o or s-th' < 'keep on going' + 'cause to' +

'3rd person object', m\( \epsilon - x^T\) take it off (of a button, etc.)' < 'come off' + 'do purposely to inanimate object', t'f'-l\( \epsilon - t\) 'sing it' < 'sing' + 'do purposely to s-th'. As can also be seen from some of the examples, the control suffixes are often translated as mere transitivizers with the degree of control more implied than overtly stated (but definitely present semantically). Control suffixes are immediately followed by object personal pronoun suffixes.

The stressed allomorphs of control suffixes must be accounted for by morphophonemic rules with morphemic conditioning. Out of about 350 transitive verbs, only the following show stressed control suffixes:

-á(·)T: peqwát 'break it in two', xwek'wát 'drag s-o', 0'exwát 'wash s-th (or s-o)', 1eq'wá\*t 'bark it (of a tree)', 1xwá\*t 'spit (s-th)', 1xwá\*0áxy\*es 'he spit me out', scewá\*t 'know how to do s-th', possibly 'ehá\*t 'wrap s-th up', (probably not 'á\*t 'call (s-o)' and yá\*t 'warn s-o' which seem to have -T).

-\$(\*)T: tq£t 'close s-th', k'\*exy\*\(\epsilon'\) count s-th (or s-o)', k\*el£\*\(\epsilon'\) t'hold s-th (in hand)', k'\*el£\(\epsilon'\) t'spill it', k'\*el£\(\epsilon'\) as 'he spilled me (from a canoe)', seq'\(\epsilon'\) t'split it, crack it', wee'\(\epsilon'\) t'ease s-o', wee'\(\epsilon'\) dease you', lem£\*\(\epsilon'\) t'kick s-o (or s-th)', ces£\*\(\epsilon'\) tease s-o', x\*\(\epsilon'\) t'tear s-th', (probably not

kwé·t 'set s-o free'). Just as k', welét can mesn 'spill s-th' or 'spill s-o', the choice of 's-o' or 's-th' or of both 's-o/s-th' depends mostly on the context: I have thus glossed the words in these paragraphs as I obtained them, and the s-o or s-th should be understood to depend somewhat on context. Also it might be noted that a number of these verbs are also attested without the transitivizers (for example. k, wat 'spill', k, w(e)x to 'count', and x of 'tear'). -oT: lec'ot 'fill it up', mek' ot 'pick it all up', eek, wet 'pull s-th'. xee'et 'shove s-th/s-o'. x=0'60áx es 'he shoved me', 0exét 'push s-th (or s-o)', q, wemet 'pull s-th up by rcots'. x yec'et 'store or put s-th away', 0q'ét 'spear it (esp. fish)', xlét 'beat s-o up (lit. 'hurt s-o')', k'x ot 'cover s-o or s-th (with s-th cloth-like)'. \* x w ft 'win it (race, game, etc.)', q'pét 'gather or collect s-th, pick it up', qwsét 'launch or push s-th into water, push s-o into water', qws60áxyes ' he pushed me into the water', xWpst 'pick s-th up from floor or ground', xt'st 'put a spell on s-o', (probably not xéywét 'scold or advise s-o, warn s-o', q'swet 'pay s-o').

The roots in all these examples (excluding those in parentheses) are  $c_1 \circ c_2$  or  $c_1 c_2$ ; in other derivations or inflections of these roots, the roots always

have the shape  $C_1^{\circ}C_2$  or  $C_1^{\circ}C_2$  or at most  $C_1^{\circ}C_2$  (usually when the root appears uninflected or word finally). For example: péq<sup>W</sup> 'broken in two',  $\Theta'^{\circ}C_3^{\vee}$  'wash',  $\frac{1}{2}C_3^{\vee}$ 

There doesn't seem to be any way to predict which roots take  $-\acute{a}(\cdot)T$  instead of  $-\acute{e}T$  or  $-\acute{e}(\cdot)T$  instead of  $-\acute{e}T$ , other than listing the roots. However it seems that those taking  $-\acute{a}(\cdot)T$  all end in a labialized consonant  $(G^W)$ , w, or h, while those taking  $-\acute{e}(\cdot)T$  never end in  $C^W$ , w, or h. It is too early to say whether this is co-incidence or a phonological class. Roots taking  $-\acute{e}T$  seem to include those with final  $C^W$  as well as those without.

A handful of transitive examples have an abnormally stressed 3rd person object suffix after the control suffix:  $xe^{1-\epsilon x^{w}}$  'hurt s-o or s-th (by accident)'

(cp. xel-1-axy-es 'he hurt me (by accident)', xel-1-&m '(he got hurt), s-o hurt him, he was hurt'), lek -1-&x w 'break a bone, break it (of a bone or sticklike object)' (cp. lekW-l-&m 'he got a bone broken', lekW-l-&xW-es tel céléxy 'he broke my hand (accidentally)'), c'eq'W-1-ExW 'hit s-th or s-o accidentally with a piercing projectile)'. xy aq-l-&xw 'complete s-th'. Gex-1-&x 'discover s-th': k el-1-&x 'catch s-th (ball, animal, disease)', cem-l-éx w-es 'he met up with her': q'el-st-&:x 'fooled s-o' (cp. q'el-s0-áx -es 'he fooled me'), sisi-st-éx -es 'he's scaring them': These cases are peripheral to control suffixes but seem explainable in the same way (zero- or schwa-grade roots causing stress and ablaut of suffix vowel which is usually unstressed e). The exceptions are cem-1-6xW-es which is related to ca.m-tel 'meet up with each other. elope' and sisi-st-£x -es (sisi < si.si, certainly not a zero-grade or schwa-grade root).

Some idea of the semantic effect of control suffixes can be obtained from the examples given in 4.5 of Chapter 4, from the examples given in the six preceding paragraphs (especially the first four paragraphs), and from the examples which now follow.

{-(e)T} 'do purposely to s-o or s-th': tás-et
'mash s-th (berries, etc.)' (tás 'get hit by s-th mov-

ing, bumped, mashed'), six-et 'move s-th over' (cp. sex-&yl-em 'move over'), lépec-t 'send s-th' (lépec 'send'), leq'él-ces-t 'turn the tables on s-o', 'fk'\*-et 'throw s-th away, discard s-th' ('fk'\* 'lost'), efy-t 'make s-th, fix s-th' (eiy 'make, fix'), k\*\*téx\*-t 'let s-o in' (s-k\*\*etéx\* '(be) inside (a house or cave)'), xéym-leq\*-t 'pull s-o's hair' (xéym-et 'grab s-o/s-th'), q'é.y-t 'kill s-th or s-o' (q'é.y 'die'), qíq'-et 'apprehend s-o, catch s-o' (qíq' 'apprehended, caught, grounded').

{-1} 'do accidentally, happen to do, manage to do to s-th or s-o'; wec'\$\%'-1-ex^W 'drop s-th by accident' (wec'\$\%'' 'drop down (of an object or person)'), cflq-1-ex^W 'dropped it' (cflq 'fall'), mflq-1-ex^W 'forget s-th/s-o', (Chwk.) (s)\forget s-th/s-o', (Cheh., Tait) \forget -q'\forget s-th/s-o', (Chwk.) (s)\forget s-th/s-o', (Cheh., Tait) \forget -q'\forget s-th/s-o' (\forget s-th' (\forget s-th/s-o'), \forget s-th' (\forget s-th/s-o') (\forget s-th's-o') (\forget s-th's-o') \forget s-th' \forget s-th's-o' \forget s-th's \forget s-th's

{-sT} 'cause s-th or s-o to do, make s-o or s-th do';

q6x-st-sx 'make it thick, make it lots' (q6x 'be lots, many'), '6w-st-sx '(to) deny s-th' ('6we 'be not, not be, no'), '6\*yelex -st-ex 'keep s-o alive', e'q'elxamé-st-em 'he was made to kneel' (e'q'elxem 'kneel'), mé-st-ex 'bring s-th, fetch s-th' (me - mi - 'emf 'come'), x6yxe-st-ex 'make s-o ashamed' (x6yxe 'ashamed'), 'epalé-st-ex ''ext ten dollars' ('epáles 'ten dollars'), leqtá\*lé-st-ex 'join s-th together', s-x 'máx -l-st-ex 'holding s-th up' (x 'máx 'w 'lightweight'), xt6\*-st-ex 'do it', 'iyá\*lem-st-ex 'obey s-o' ('iyá\*lem 'alright, correct, okay, can').

-(\*)x<sup>y</sup>'do purposely to s-th or s-o (especially to s-th)' (including all examples found so far):

16w-ex<sup>y</sup>-es 'he put it in' and 16w-ex<sup>y</sup>-em 'it was put in' (1f·w 'inside (s-th)', lew-f·l-em 'go inside a hole'), 16p'-ex<sup>y</sup> 'eat s-th' (16p'-eT 'eat s-o'),

té·l-x<sup>y</sup> 'track s-th (or s-c), follow tracks of s-th',

k<sup>w</sup>é·l-x<sup>y</sup> 'hide s-th (an object, not a person)' (k<sup>w</sup>é·l

'hide (oneself)'), k'p-l·l-x<sup>y</sup> 'bring it down (from upper shelf or upstairs)' (k'p-f·l 'descend, go down'),

wé·l-x<sup>y</sup>-es 'he threw it (upwards)' (wé·ls 'throw to a crowd, scramble-give (['throw a pole or blankets to a crowd at a winter ceremony; the thrower gives each person a gift proportionate to the portion of

pole or blanket he is able to hold onto'])'),

há·k\*-ex\*-es 'he used it', x\*él-x\*\*-es 'he lifted it',

x\*e-mé-x\*\* 'open s-th (a door for ex:)' and mé-x\*\* 'take

it off (from something it is attached to)' and memé-x\*\*
'to separate or split up people fighting' (all compared

with memé 'it came off (a button, etc.)'), tém-ex\*\*
'desire s-th, wish for s-th', t'ém-ex\*\* 'braid it'.

-meT 'happen to do an action (with little control) not directly affecting s-o or s-th' (including all examples found so far): 061-met 'look after s-o' and 06001-mot 'admiring s-o' (< 0'610 'heart'?), %'61%'01--met 'get used to it'. k' eck' ec-met 'expect s-o. look for s-o', s-iwel-met 'sense s-th/s-o' (-iwel 'thoughts, feelings, insides'), st'swel-met 'thinking about s-th' (ste?&-wel (AC) - st'&-wel (EB, CT) 'guess, think'), ?6liye-met 'dream of s-o' (?6liye '(to) dream'). sf.si-met 'be afraid of s-th/s-o' (sf.si 'be afraid'). q'61-met 'believe s-o' (q'6.1 'believe'). xWl616.-met 'listen to s-o/s-th' (xWlélé. 'listen'), sq'eq'á-met 'stay together with s-o' (sq'eq'á 'together'), léw-met 'run away from s-o' (lé·w 'run away; cured', líw ~ h'iw 'run away'), 0'fw61-met 'be fed up with s-th/s-o' (θ'-fw61 'annoyed'), θ'exW-met 'pity s-o', wawist6leq--met 'jealous of s-o' (wawi-stéleq 'jealous'), xyál-met 'look after s-o, take care of s-o'. qwaqwel-met 'bawl

s-o out' and qwəlqw61-met 'scold s-o' (qw61qwel 'rowdy', qwáqwel 'talking'; these two examples alone do not fit the gloss proposed for -met 'happen to do action not directly affecting object').

-(e)les '(accidentally, happen to, manage to)
do to s-o or s-th' (including all examples found so
far): mélq-eles 'forget s-o or s-th', sk'\*é·y k'\*els
mélq-eles-áme 'I'll never forget you', hék'\*-eles
'remember s-o or s-th', hék'\*-eles-áx\*-es 'he remembered
me', \*'f·-ls-áx\*-es '(s)he loves or likes me' (s-\*'f·
'want, desire'), '?é·y-eles-áx\*-es 'he left me' and
'?é·y-eles-es 's-th/s-o went away from s-o/s-th' (?é·y
'keep on going'; these last two examples may be from
'?é·y + -el ~ -f·l 'go, come, get', i.e. < '?é·yel 'go
away, get away', but the -es is unexplained),
pétem-es-àx\*-es 'he asked for me' (pétem-et 'ask s-th').
This -(e)les suffix may involve mental or emotional
action and this should possibly be reflected in its

6.1.2.2. Intransitivizers (-om, -é·ls ~ -ols, and possibly -(o)00t and -f·l ~ -ol).

{-em} 'intransitive' (and {-em} 'middle voice' as well) appears to have several allomorphs, namely
-m (after vowels), -6m (after 1 or y which follows a high-stressed vowel, i.e. v(1,y)\_\_\_), -6m (after 1

or y which follows a mid-stressed vowel, V (1,y)\_\_),

-6·m (after a few morphemes which are either vocalically a weak or zero grade or which become so before the stressed suffix), and -à·m (after a few morphemes with root vowel á· which metathesizes to the -em suffix). Examples of all these are found in 6.1.6 but not in an organized way, so some will be given here. (For further discussion and examples see 6.1.6, where -em 'intransitive' is disentangled from -em 'middle' and -em 'passive'.)

-m:  $\theta$ 'ém ~ c'ém 'chew' ( $\theta$ 'ét ~ c'ét 'chew s-th'),  $x^{W}$ lélé·m 'listen' ( $x^{W}$ lélé· 'listen hard'), qá·m 'dip water, pack water, fetch water' (qá· 'water'), lém 'go, going, go to, going to' (lɛ 'go(ing)(to)').

-6m; q'W616m 'barbecue, roast, put in oven' (q'W61 'cooked; ripe'), q'616m 'to camp', leq616m 'dirty (of water)', hf16m 'tumble, fall and tumble', lewf·16m 'go into an opening' (lf·w 'inside (s-th)', l6wex 'es 'he put s-th in'), heqf16m 'crawl underneath', t'616m 'stick to s-th or s-o', lfy6m '(to) laugh', efy6m 'bake bread, fix food' (efy 'make, fix'), x Wáy6m 'sell', 2áy6m 'slow', spex Welf·16m 'breathe, sigh, blow or puff air from throat', m60'elq6y16m (//m60'el-qel-f·1-em//) 'tell a lie, to lie'.

-òm: ?exá·yellèm 'shave oneself' (?ix 'scraped,

scratched'), spéx "elè'lòm (variant form of 'breathe, sigh')

-&m: c'&té'm 'crawl', c'\de'm - c'ic'\de'm 'hear',
c'\de'm - c'\de'm' jump', \text{9'q'e\de'm} 'kneel', \text{x''iy\text{x''iy\text{s'm'}}}

'tell stories' (the i here and in the next word could
be analyzed as //e//), k'\de's' 'refuse, be stingy'
(k'\de'n' 'refuse s-o s-th', sk'\de's', 'iy' 'stingy'),
q'\text{96'm' 'have a short memory', possibly x'\de'n' 'over
to, towards' and x'\de' 'through'; it seems that
k'\de'x'\de' 'counting' has its stress and vowel through
'continuative' stress shift and metathesis (cp. k'\de'x'\de'm'
'count', k'\de'x'\de' 'counting it', and k'\de'x'\de' 'count it').
-\de' m: x'\de'x'\de' k'\de' m' 'swimming' (x'\de'x'\de' m' 'to bathe
(oneself)'), x'\de' x'\de' m' 'whistling' (x'\de' e\text{m'} it whistlie'), x'\de' x'\de' (dubious recording of vowels, probably sic for x'\de' x'\de' m' 'one's mouth hanging open'

tle'),  $x^y$ ix $y^y$ q'è·m (dubious recording of vowels, probably sic for  $x^y$ ix $y^y$ q'à·m) 'one's mouth hanging open' ( $x^y$ eq'á·0et 'hang s-th up'),  $\theta$ 'q'\*à·m0et 'rotted' ( $\theta$ 'á·q'\*em 'to rot')(-0et in this example and in words like xeyxec'ém0et 'real itching' seems to trigger stress shift to last vowel before -0et).

It should also be noted that -6m occurs in four examples (out of the 20 which could be cited) after consonants other than 1 or y; however, it seems all four have had stress shifting for aspect or derivation or have weak grade vowel roots, accounting for

the -6m: xeyxec'émeet 'real itching' (xéyxec'em 'itching'), p(e)k'\*6m "fly or burst (of airborne seeds or dust), dusty" (probably better glossed as 'blowing of light dust, fluff or snow')(cp. pák'\*em 'blow (of plant fuzz, airborne seeds, or light snow)'), tx\*ém 'be early' (téx\*em 'being early', cp. x\*ém 'hurry, be fast'), \*'x\*ém 'win a contest' (\*x'x\*éleq also 'win a contest').

For a discussion and examples of -(e)0et 'get, become, go' (which acts somewhat like an intransitivizer) see 6.1.7 in which it is derived morphosememically from -(e)0et //'reflexive'//. For a discussion and examples of -i·l - -0l 'go, come, get' see the chapter on lexical suffixes; it is still unclear whether -i·l - -0l is a very productive lexical suffix or a productive intransitivizer; it is included in lexical suffixes because it adds a clear lexical meaning, as well as either intransitivizing or not changing the intransitivity of the root.

In addition to -em 'intransitive' and perhaps {-f.1} and {-(e)9et}, the suffix -f.1s - -els is also an intransitivizer. The following examples show -f.1s - -els:

 $\pm \operatorname{etq}^{W} \mathcal{E} \cdot \operatorname{ls}$  'boil' ( $\pm \hat{a} \cdot \operatorname{tq}^{W} \operatorname{em}$  'is boiling, (being boiled)'),  $\operatorname{yeq}^{W} \mathcal{E} \cdot \operatorname{ls}$  'burn at a ritual, perform a burning'

and heyed els '(performing a) burning at a ritual' (yeqw 'burn', heyeqw 'burning'), 0iyqwebls 'dig' and eayq wels 'digging' (eiyq t 'dig s-th up'), x eq tls 'drag (for ex. 'drag the river for a body')' (xwedwat 'drag s-o or s-th')(EB has k'W instead of qW), tok'Wé.ls 'hook (fish for ex.)' (lik, 'W' hooked. gaffed', lik, Wet 'hook it, gaff it'), kwxwéls ~ kwxwè·ls (é probably misrecorded for &.) 'knock (once), rap' and kwakwexwels 'knocking, rapping' (kwakwexwem 'rapping, knocking (in distance)'. kwakwexwecesem 'knocking with one's hand', kWaxWet 'beat or rap on it (drum, wood, etc.)'), eq'é ls 'to spear' and eé q'els 'spearing (fish for example)' (0q'ot 'spear s-th', 06q'tes 'he's spearing s-th'), 'slqf.'ls 'buy' ('ileqet 'buy s-th'), xet'k' 6.1s 'carve in wood' and xét'k' els 'carving, whittling'. ±c'€·ls 'cut (for ex. wood with a saw)' (±éc'ces 'cut on the finger', lic'et 'cut s-th (off)(for ex. meat. hide, etc.)'), c'ekwxéls 'fry' and c'ékwxels 'frying' (c'6kWxt 'fry s-th', c'6kWxt 'frying s-th'), xt'6.1s 'cast or throw a spell' (xt'ét 'cast or throw a spell on s-o'), yeq'&·ls 'to file (abbrasively)' (yeq'et 'file s-th'), q'etxé-ls 'to rattle (cans, etc.), to shivaree or wake newlyweds' (q'étxem '(make) a scraping or rattling sound (dishes, metal pots, food off dishes, wagon on gravel, etc.)', q'stytes 'he's rattling s-th (dishes, etc.)'), pehè·ls 'to blow (of the wind)' (pá·t 'blow with mouth' prob. < \*pehá·t, cp. also spehé·ls 'the wind'), possibly łé·lt-elec-é·ls 'spraying (in garden)' (łélt 'sprinkle or splash s-th with water' (this last word may not belong since -elecé·ls may be a lexical suffix).

pipewels 'freezing cold' (piwet 'freeze s-th/s-o'. spipew 'frozen'), qétxels 'feeling around' (qétxt 'feel s-th/s-o (with hands)'), % finq "wels 'making a crunching/crackling noise (ice breaking, eating an apple, etc.)', xépk' els 'gnawing, nibbling' (xépk t 'gnaw s-th', kw or k' uncertain, cp. also xopk' om 'brittle'), x£yxeq'els 'scratching (without breaking surface)' (xéyq'et 'scratch s-th (w/o breaking surface)', xéyxeq'et 'scratching s-th'), yéyeq'els 'falling (of trees)' (yéyeq'et 'falling s-th (a tree)', yéq'et 'fall it (a tree)'). léleq'els 'laving down. putting down (bricks, foundation, prob. anything)' (lefteq et 'putting s-th down'), leftewels '(an Indian doctor) working, curing' (lé·wet 'cure s-o by Indian doctoring', lé w 'cured by Indian doctoring (by a medicine man)'), t'éqels 'farting' (t'éq 'to fart'), c'étxWels '(mice) chewing (a wall, a box, etc.--esp. the sound)', t'éleq'Wels 'scratching to get in' (t'sleg' tes 'he scratched on s-th'), t'elt'sleg' els

'scratching repeatedly to get in' (t'olt'6loq'\*tes 'it has scratched s-th up'), há'q'els 'smelling, sniffing (of dog, other animals)' (há'q'em 'smell, give off smell', há'q'et 'smell s-th on purpose', há'q'els' 'happen to smell s-th, catch scent of s-th'), sé'yt'els 'tickling' (sé'yt'em 'being tickled', sé'yt't 'tickling s-o', sfyt't 'tickle s-o'), h'éwels 'barking (of a dog)' (? h'ewéls 'to bark (of animal)'), t'éméls 'to adze, chop' (should gloss be continuative?).

The above examples explain the nature of this suffix's phonological alternation.  $-\epsilon \cdot 1s$  occurs in non-continuative forms and -els occurs in continuative forms, consistently. Since continuatives are inflected forms and the non-continuatives are the base forms, it follows that  $-\epsilon \cdot 1s$  is the base form of this intransitive suffix; then, since most of the examples here form their continuatives by ablaut and stress-shifting (2.3.3.2), it is natural to expect -els as the unstressed version of  $-\epsilon \cdot 1s$ . The stress-shifting even takes place in the continuatives formed by reduplication because morphophonemic rule 2.3.3.4 operates to de-stress, downgrade to schwa and drop root vowels before stressed suffixes  $1ike - \epsilon \cdot 1s$ .

The semantics of  $\{-\varepsilon \cdot ls\}$  is also interesting. All the examples show: the subject is a semantic agent,

doing the action on purpose (except where the agent is inanimate), and the semantic focus is upon the activity not upon its results. Of these elements, the 'on purpose' element is most interesting because in the few examples where there is an -om intransitive with the same verb root, the -om intransitive has the meaning 'not on purpose, happen to, accidentally'. The 'not on purpose' meaning for -om 'intransitive' is seldom found in the examples in 6.1.6; it seems that either this semantic element is inconsistently present in -om 'intransitive' or it is present only in verbs which also have contrasting - £.1s forms. or the intransitive examples in 6.1.6 still need further sorting out. At any rate, {-£.ls} would seem in part to be the intransitive equivalent of purposeful control transitivizer {-(e)T}:

## 6.1.3. Beneficiary Suffixes (benefactive, reflexives, reciprocal):

-(e) $\pm c$  'benefactive, for s-o' (precedes control suffixes)

-lá·met 'reflexive, oneself'

-(a)Oot 'reflexive, oneself, itself'

(replace control suffixes and

-tel 'reciprocal'

object pronouns)

The benefactive is a suffix which was attested only three times in my material from AC; it appeared in a number of examples from EB, at first as -(\*)}

because the consonant clusters it produces are difficult to pronounce with -(a) to (noticed during elicitation). However after several elicitation sessions these examples were corrected to -(a)tc and Edna began to use the benefactive quite productively. A number of these examples were also verified with the Coqualeetza Elders Group. As examples 16 and 17 will show, -(a) to can also be used as a malefactive but with somewhat humorous force as in the English constructions. -(a) to follows the stem (i.e. follows all the lexical suffixes) and precedes the control suffix -(0)T; it might also, in the shape of -(0)1, precede the control suffix -sT, but this is poorly attested and doubtful. The schwa is dropped from -(e) to after vowel-final stems; otherwise it is present (-01c); it is stressed after Giy 'make, fix'. The examples found so far are: 1.(AC) Giy-62c-et 'make it for s-o'.

- (AC) Ofy-olc-ot 'making it for s-o'
- 2:(AC) qá·-ic-e0-áx<sup>y</sup>-es te qá· 'he brought me the water' (cp. qá·-m 'fetch water, pack water')
- 5. (remaining examples by EB;) @iy-64c-et-2c 'make it for him!, fix it for him!', %'e-s @iy-64c-t-es te sqwemf.y 'he made it for the dog', @iy-64c-t-em te swfyeqe 'the man made it for s-o'(sic 'it was made for the man'), @iy-64c-@fxy(-cexw) '(you) make it for me'

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4. cel/cet ?ileq-etc-et 'I/we bought it for him'.
 ?iléa-elc-et-ls 'buy it for him!'.
 h'es 'ileq-etc-t-es te sqweme'y 'he bought it for the dog',
 ત્ર°əs ?iləa-ə≟c-t-əs λº Bill tə sa Wəme'y 'Bill bought it
 for the dog! .
 ?ilea-etc-t-cex 'you buy it for him(!)'.
 ?iled-etc-eaxy(-cexw) '(you) buy it for me(!)' (can be
 either declarative or imperative with -cex ).
?iléq-elc-Gáxy-le 'buy it for me!'.
?iléq-elc-tá·lxW-la 'buy it for us!'
5. kWf.lxy-elc-04xy-ls 'hide it for me!'
www.lyy-alc-Páxy-es Púk'à 'she hid it for me'
k<sup>W</sup>£.1r<sup>y</sup>-e∓c-t-em Θúk'à 'it was hidden for her'
kwf.lxy-elc-0ame 'hide it for you'
rwf.1xy-a+c-0amó-cel 'I hide it for you'
6. c'akwx-alc-axy(-caxw) '(ycu) fry it for me(!)'
7. g, wem-ews-elc-eaxy(-cexw) '(you) pluck it for me(!):
8. qWels-elc-Gaxy(-cexw) '(you) boil it for me(!)'
a<sup>W</sup>éls-e≟c-t-≟ε 'boil it for s-o (him, her, etc.)!'
owels-etc-t-es to swiyaqe '(s)he boiled it for the man'
q ols-elc-t-es ee slelf to sweqee-s 'the woman boiled
it for her bushand!
9. pfx -- etc-t-te 'brush it for s-o!'
pix -elc-t-es te swiyeqe '(s)he brushed it for the man'
pix^W-elc-t-es \thetae słźli te swiyege 'the woman brushed
```

it for the man'

nix -etc-t-em to swiyede 'it was brushed for the man' 10. lic'-elc-eaxy-cexw k', we smeyed 'cut off some meat for ma!! lic'-olc-0am6-col-ce to sméyo⊖ 'I'll cut off the meat for you' lic'-elc-et-cel-cs to smeyed 'I'll cut off the meat for him/her/it/them' 11. cel yédw-el(c)-t 'I burned it for s-o (him/her/etc.)' yed w-el(c)-eaxy-cexw '(you) burn it for me(!)' (cp. yèq -elcep-eax -te 'make a fire for me!') 12. p'ówiy-ełc-eáxy-cexw te(1) s(e)qíws 'patch my pants for me! 13. netém-elc-Gáxy-cexw we?ésul xwe?í. tel s?ã.m 'ask for me if my order is in! 14. mè·le-le-eaxy-cexw '(you) bait it for me(!)' 15. kwi-1c-0áxy-es 'he took it for me' 16. celeq-etc-t 'divide it in half with s-o (for s-o)' 17. gá·ge-lc-0áxy-es tel tí '(s)he drank my tea on me' 18. cex lek ma-lc-ear tel sxéle 'you broke my leg for me' 19? ?i-1-st-exw-cexw (?)à te sawenter 'leave it here for the dog! . h'es ?f-1-st-ex -es te sq emé y 'that's what he left here for the dog' ('f-st-ex" 'leave s-th here!)

20? q'&w-el 'pay for s-th' (cp. q'ew-6T 'pay s-o')

-lá·met and -(e)0et are the two reflexivizing suffixes in Upper Stalo Halkomelem. Both replace control suffixes and following object pronoun suffixes. -li-met is less common of the two and seems to contain the -1 control suffix, 'do accidentally, happen to do. manage to do'. It also has allomorphs -la( · )mot (when high stress precedes in the word). -lemet (after +isté(1)-) and -lá(·)met (elsewhere). The allomorph -là·mèt is homophonous with the -l control + 2nd person sg. passive (after hegative and impossible constructions), but the syntactic environments of the two rule out equating the two. Examples include: c'isemlà·mèt 'grow up. raise oneself' (c'i·sem 'grow') x£yxelà·mèt 'shame oneself, be embarassed' (x£yxe 'be ashamed!) oWá·làmèt 'make it through the winter' ?itetlamet 'fall asleep' (?ftet '(to) sleep') \*xsylexylamet 'stand up by oneself' (\*xsylexy 'stand') k, Wemlá·met 'raise oneself, pull through (illness, crisis, cr childhood) (k, Wenet 'raise s-o') tel·á·met ~ tatel·á·met 'understand' (tél·ex "understand s-th, learn s-th, find s-th out', ta-1-0et 'wonder, think about s-th') sf.silamet 'scare oneself, do s-th dangerous and get even more scared than expected

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h'ewlamet 'escape, get oneself free (like from a trap)'
   ( h 'iw 'run away, escape')
wec'é · làmèt 'bring oneself to a summit (of mountain),
   masturbate:
xwe?flamet 'manage to get here'
±€1. amot 'get to the shore (from water), land'
listélémét 'feel sorry for oneself'
     There are many more examples of -(a)0at:
lá·s0et 'get fat, make oneself fat' (lá·s 'be fat')
q'áy@ət 'kill oneself' (q'áy 'die')
q'Wfyx0at 'shake oneself, shake itself (for ex. of the
   earth in earthquake), bob about (of canoe for ex.)'
?iya oot 'change oneself' and ?iyecot 'get out of the
   way, dodge' (?ivé.q-T 'change s-th/s-o')
qelqelf.10et 'go get oneself dirty' (qel 'bad, dirty')
xélc'0et 'turn (oneself) over or around' (x-élc' 'twist,
   turn over or around!)
xyá·lmə0ət 'take care of oneself' (xyá·lməT 'look after
   s-o, take care of s-o')
xəhá·məθət 'cry for oneself' (xehé·mət 'cry for s-th'.
   xè·m 'weep, cry')
#1000t 'bail (water), bail (oneself out)' (#101t 'bail
   s-th')
q'á·10et 'come back' (q'élstexW' 'bring s-th back'.
   q'eq'á. 'be together with')
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paqwet 'get decayed, mouldy' and pqwe'yest 'wood de-
   cays' (péq 'split in two, broken', pq 'to y 'decayed
   wood, broken wood', peqwat 'break s-th in two')
xéyl0ət 'mark oneself' (xéyl-t 'write s-th, mark it')
x^{W} foot 'wake (oneself) up' (x^{W} i-x^{Y}-oT 'wake s-o up')
lec'é0et 'fill oneself' (lec'ét 'fill s-th')
x elet 'make oneself famished, starve oneself' (x e
   'starved')
OfyOot 'fix oneself up' (Ofy 'fix, make')
q'éyk'0ət 'heal up' (sq'éyk' 'a scar')
a'epédet 'gather themselves' (a'pét 'gather it')
Gex "á. Get 'disappear on purpose' (Géx 'disappear')
lsx webst 'cover oneself up' (lsx bt 'cover s-o/s-th')
k, wek, wiyeet 'training oneself (to be a shaman, spirit
   dancer, canoe-nuller (canoe racer), etc.)' (k, wek, wfv
   'climbing up')
k, wq wemedet 'drop oneself into a seat angrily, throw
   oneself on the floor or ground in a tantrum, throw
   a tantrum' (k, Wác WaT 'club s-o/s-th')
q'eq'á.0et and q'á.0et 'mix, associate or go with s-o'
   (sq'eq'á. 'together with')
?at 'e0et 'to stretch out (oneself)' (?at'eT 'stretch
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qexáθet 'to slide (purposely slide oneself as in skating, sledding, playing)' (σέγχεπ 'to slip, skid')

s-th')

x<sup>y</sup>£lx<sup>w</sup>-eet 'to cool off (of a person)'
temf·leet 'to cool off (of food)'
x£yxeet 'shame oneself' (op. x£yxelà·màt above)

It is tempting to propose that the -(e)0 in -(e)0st represents the purposive control suffix -(e)T and that the final -et in -(e)0st might be equated with that in {-1-á·met} as the reflexivizer. But neither proposition can be conclusively supported by the evidence; in fact, some words inflected with -(e)0st seem to have accidental and causative translations (or implications) in addition to some which have purposive implications.

A number of examples, not cited above, seem to either have a homophonous suffix -(\*)0\*\*et '(verbalizer), get, become' or to have extended the semantic content of reflexive -(\*)0\*\*et to include these meanings. For example: x\*\*f\*.meet 'got shallow' (sx\*\*f\*x\*\*]em 'shallow'), hf.\*k\*\*Meet 'get big' (hf.\*k\*\* '\be) big'), xf.\*y\*\*\text{9\*\*et 'get-ting colder', k\*\*\*ds0\*\*et 'get warm, get warmer' (xfy\*\*'cold', k\*\*\*ds\*\*\text{9\*\*et warm, hot'), pdy0\*\*et 'went crooked (like a nail)' (pdy-t 'bent it'), t\*\text{5pi0\*\*et 'go dead or die (of a tree)' (st\*\text{5pi} 'dead (of a tree)'), xal\text{6m0\*\*et 'getting/turning gray (of hair)' (x\text{5lom 'gray (of hair)'), (s)\text{xfy\*\*0\*\*et 'aggressive, ready to fight, cruel' (x\text{5y\*}' 'cold'), 0'q'\text{4\*\*eet 'getting rotten}

(berries for ex.)' (0'á(')q' m' rotten' + continuative metathesis), xák'00t 'windy' (xák' 'turbulent, rough (of wind or water)'), q'oq'á'00t 'mix, associate or go with s-o' (q'oq'á' 'be together with'), tf·100t 'to clear land' (tf·1-t 'clean it, clear it (of a table, etc.)'), 'á'100t 'to groan', 'áw00t 'to be in a hurry, to hurry'.

Some of these examples could have a reflexive element ('getting gray (by itself)', 'getting rotten (by itself)', 'mix with s-o (bring oneself together with s-o)'), but others seem to lack any reflexive force ('to clear land', 'windy', 'got shallow'). The most likely rule to account for all this is a morphosemenic rule: //'reflexive'//  $\rightarrow$  /'get, become'/ in the environment: //'inanimate'//. Also in support of a single -(e)0et suffix is the fact that in both the clearly reflexive examples and those with 'get, become' the suffix seems to be accompanied by  $\varepsilon \rightarrow$  a ablaut; it seem unlikely that this ablaut would be found co-incidentally in two homophonous suffixes.

The reciprocal suffix, -tol, is an easier matter. When not overtly translated with 'each other, one another', words containing this suffix still can be seen to have this reciprocal meaning present. The suffix is homophonous with lexical suffix -tel 'device, thing for', but the two are easily kept apart (one is used in verbal context and one is used in a nominal context) (-tel 'reciprocal' could be numbered {-tel\_3} if need be). -tel 'reciprocal' may have allomorphs -f.tel and -tá.l, -tà.l (the latter set seems used in contests, perhaps meaning 'against each other'), but there are not enough examples yet to predict their occurence. Examples are not too numerous. but the suffix seems productive: aWélaWeltel ~ aWé·laWeltel '(a lot of people) talking together' (qWE.l 'talk' (~ qWel in derivations) + R plural subject) q'eq'atel 'to meet' (q'eq'a' 'be together with') θeθk, "f·tel 'tug-of-war' (θék, " 'pull', R 'continuative', possibly eeek, wiytel with -iy 'wood, bark' if the tugged item was cedar withe rope, poles, etc.) qeqemátel 'having the same parents' (qemá. 'suckle'. R 'continuative', -tel here 'with each other') gelá gtel 'be siblings (to each other), be cousins (to each other)' (s-gf.g 'younger sibling', -el-'plural' as in sqelé q 'younger siblings') sék'atel 'elder sister'. sé k'atel 'elder sisters' (sélk's 'oldest (of children)') kWeltá·l 'wrestle'

skWekWatel 'to separate in marriage' k'fk'ex"tà 1 'beating one another (in contest), competing' (\*\*)ex" 'beat') q'syq'xatel 'contradicting each other' (q'éyq'xèt 'contradicting s-o') ?iyá·təl 'fight', ?á·ytəl 'fighting' vévetel 'make friends', vávetel 'making friends' (siyéye (or better, s-yéye) 'friend') le st'ela. stel 'they were sitting side by side (beside each other)' (t'éles-T 'sit beside s-o') ?&.xWi.tel '(they're) sharing' (?&.xWest-es 'he's giving gifts to s-o') memiy-el-tel 'helping one another' (memiyet (< me-me-y-eT with R<sub>1</sub>) 'helping s-o', -el meaning uncertain) xéyeslátel 'wild ginger (asarum caudatum)(lit. 'facing one another', referring to the paired, facing leaves)' 6.1.4. Aspect (continuative, non-continuative). The 'continuative' aspect is marked by reduplication (see 2.5), ablaut (see p. 82 and preceding in 2.3.4), stress-shifting (2.3.3, especially 2.3.3.2 and 2.3.3.3). metathesis (see 2.3.5.3), and prefixing {hé-} //hé- ~ h6-//(see 2:3.3.7). The 'non-continuative' is unmarked and contrasts with the 'continuative' by its lack of the five processes and affixes mentioned: Continuative and non-continuative are mutually exclusive:

'inceptive' is not and can occur with either of the two aspects (thus 'inceptive' suffixes like -1-1 and -(\*)0et and inceptive auxiliary (me) 'come to, become' are not grammatically aspect inflections).

Since complete lists of examples have been given in the previous sections referred to in the last paragraph, only a brief sampling of examples is necessary here. In the following list, first the process or affix is given which indicates 'continuative', then the non-continuative example, and last its continuative counterpart.

 $\label{eq:R1: tiles} $$R_1: tiles 'singing': tiles 'singing' $$k^wf(\cdot)$ mel 'get red': k^wfk^wenel 'getting red' $$s-tiles 'singing': s-tiles 'his singing' $$$ 

 $\begin{array}{ll} R_5\colon & x^W f \text{ 'wake': } x^W e x^W f \text{ 'waking'} \\ & x \text{ \'eylt 'draw s-th, write it': } x \text{ `exylt 'writing s-th,} \\ & drawing s-th' \end{array}$ 

x " starve': x " ex " starving'

 $R_8$ :  $p^36k^W$  'to float, surface':  $p^3\epsilon p^36k^W$  'floating' (also has A $\epsilon$ )

Rg: c'fk'em 'jump': c'ic'£k'em 'jumping' (AC)
s-06k'W ~ 06k'W 'straight': s-000£'k'W 'stretched,
straight, pulled tight'

Ai: qW6qWel6c 'to gossip': qWfqWel6c 'gossiping together, two of them gossiping'

xW0xWiy6m 'tell some stories': xWixWiy6m 'telling stories'

Ai: 'fmex' 'walk': 'f'mex' 'walking'
'fitel 'eat a meal': 'f'tel 'eating a meal'
'6x'el 'to paddle': 'f'x'el 'paddling'

Aε: Θέq'em '(to) drip': Θέq'em 'dripping' s?ά·wθ 'be in a hurry': s?έwθ 'hurrying'

As: Ofyt 'make s-th': Of yt 'making s-th'
c'oh'om ~ c'fh'om 'jump': c'f'h'om 'jumping'
x<sup>W</sup>émx<sup>y</sup>olom 'run': x<sup>W</sup>omx<sup>y</sup>f'lom 'running'
?áx<sup>W</sup>ostes 'he gives s-o a gift': ?f'x<sup>W</sup>ostes 'he's
giving s-o a gift'

Asy: q'emás 'to dip-net': q'éyq'emàs 'dip-netting'
Ae: q'weyîlex' 'to dance': q'weyêl'éx' 'dancing'
cséeà:m 'you were told': césetem 'being told'
c'sté:m 'crawl': c'étem 'crawling'
sá:les 'get) drunk, (get) dizzy': sélés 'getting drunk,
getting dizzy'

Aa: @iy(@)qW&\*ls 'dig': @&y(@)qW@ls 'digging'
t'&pi@et 'it's dead (of a tree)': t'&pi@et 'it's going
dead (of a tree)'

```
qWe-1 'talk': qWaqWel 'talking' (with R, as well)
   Aa ·: k, wecet 'look at s-th': k, wa( · )k, wecet 'look-
ing at s-th'
hégwlexw 'smell s-th': há gwlexw 'smelling s-th'
   Au.: qWell'talk': qWu'lqWel - qWo'lqWeltel
'talking together, all talking'
   \#SS... \rightarrow \#SS... (where S = syllable):
telof 'soak, rehydrate': telqi 'soaking, rehydrating'
h'ewels 'to bark (of dog)': h'ewels 'barking'
lex<sup>w</sup>élcε 'spit': léx<sup>w</sup>elcε 'spitting' (x<sup>w</sup> ~ x<sup>w</sup>)
cà·léx wem 'bleed': cá·l(a)x wem 'bleeding'
   #SS -> #SS: *'Exytem 'diarrhea': *'xyetem 'con-
tinuing diarrhea!
kwesuvel 'throw out a drift net': kwse.yel 'drift-net-
ting down the river' (kW probably sic for qW in each
case)
sq welx em 'dry snow that can drift': sq elx ame 'dry
snow drifting in'
   metathesis: examples above with k'exytem and
kWésuyel (g.v.)
?ivá·tel 'fight': ?á·ytel 'fighting'
k, w(a)x to count s-th': k, wex tos 'he's counting s-th'
   {hé-}(hé- 1,y; hé- m,w):
véa burn's héy(e)a burning'
lép'exy 'eat': hélp'exy 'eating'
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méq'et 'swallow (s-th)'; hémq'et 'swallowing (s-th)'
wec'éh' 'fall, drop (intransitive)'; héwc'eh' 'falling'

The phonological details of the above processes have already been described in Chapter 2 in the sections mentioned. Morphologically, all transitive verbs and most simple or lexically affixed intransitive verbs can be and must be inflected for continuative or left non-continuative. On the other hand, interrogative, personal pronoun, demonstrative, and auxiliary intransitive verbs are never inflected for continuative, while many adverbial and prepositional Vi's are. For participles (see 6.1.5) continuative inflection by reduplication is almost obligatory. Participles function as adjectival Vi's, but adjectival Vi's which are not participles (hf·k<sup>W</sup> 'be big', etc.) are seldom if ever inflected for continuative.

The co-occurence of the continuative with other verb inflections and the internal syntax of verb inflections will be covered in 6.1.10. The allomorphy, semantics and sememics of /'continuative'/ have been discussed in 2.5.12 and 2.5.13. Only a few more remarks are necessary on the semantics of /'continuative'/ and /'non-continuative'/. /'Continuative'/, usually glossed by adding be + -ing to the non-continuative, implies that the action of the root continues

for a moderate length of time after onset (if a time of onset is implied or stated within the speech event) or before conclusion (if a time of conclusion is implied or stated within the speech event). In absence of implication or statement of onset or conclusion, the 'continuative' action is assumed to be continuing indefinitely. It would be inaccurate to gloss the 'continuative' as 'non-completive' and the 'non-continuative' as the 'completive' in Upper Stale Halkomelem because the focus of aspect here is on duration not completion.

Several affixes and constructions could be termed 'inceptive' and have some semantic features of aspect, for example -f·1 ~ -el 'go, come, get, become' (see 5.2.3, pp. 206-207), -(e)est //'reflexive'//(/'get, become, go'/ in the environment 'inanimate', see 6.1.3), and pre-posed auxiliary verb me 'come to, become' (see 6.2.8). But they are better considered not as aspect inflection because they can co-occur with both 'continuative' and 'non-continuative' aspects.

6.1.5. Participles: Participles can be derived from many verb roots by inflection (usually with splus reduplication, often plus -em 'middle voice'). It seems best to consider Halkomelem participles inflective rather than derivational because 1.) the com-

bination of affixes used simultaneously is more typical of an inflection than a derivation, 2.) participles can be formed fairly productively, and 3.) Halkomelem participles are translated and used much like English participles. The Halkomelem participle however is used like an adjectival intransitive verb and may be classed as a subtype of adjectival verb syntactically. Most participles should be strictly translated with an initial 'be' in the gloss as they are stative in nature; this 'be' is omitted however when participles are used as adjectives in front of nominals (to stifpi eegét 'the dead tree'), and it is omitted in the following lists to avoid tedious repetition.

The most typical and productive type of participle inflection is s- plus reduplication (R probably adds a 'continuative' element): spápiy 'crooked' (pá·y-t 'bend s-th'), spípew 'frozen' (píw-et 'freeze s-th'), stétew 'light (in illumination)' (téw-él 'get light'), see6é·k; 'stretched, straight, pulled' (6ék; 'pulled'), scécex 'got a wife' (céx 'wife, mistress'), sx 'ex 'f(y) 'awake' (x 'flàmèt 'wake (oneself) up'), stalek; 'fiy', -f.wel 'insides'), sk 'fk 'ex' 'wild (of animals)', stéteq' 'laying on the ground' (léq'-et 'lay s-th down'), spépe6 'spread out', sk '£k'el 'stuck

(like burdock in shirt for ex.)'. statf.l 'cleared (of land)' (tf.l-t 'clear it, clean it (of a table, land, etc.)'), slé.lel 'tied up (of a canoe)' (16.1. amot 'land (in a cance)', when a cance is landed or beached it is tied up). sk, wik, wiy 'stingy' (k, wfy-st 'refuse s-o s-th'), sc'éc'ex 'silent, quiet' (c'&xW-al 'get quiet, get silent, shut up'), spepf.1 'buried' (pf.l-t 'bury s-th'), sq, weq, wf.l 'already cooked' (q'Wel 'cooked: ripe'). sp'fp'el 'flattened (can, bread, etc.)' (p'fi-et 'flatten s-th'), sq'eq'ee' 'leaning backwards', slf.leq" '(too) loose', sp'sp'ft 'sober' (p'61 'become aware, come to oneself, sober up'), skwakwá·tel 'separated in marriage', s?i?ehá - s?ehá 'wrapped up' (?ehá·t 'wrap it up'), sk'ik'esel 'darkcolored', sxéyxep' - sxíxep' 'striped' (xéyp'-et 'scratch/scrape s-o or s-th'). sk, wak, wax boxed. put in a box' (k' wax we 'a box'), se elix or se elix 'clean (of house for ex.)' (06xW 'wash'), st'elt'61q 'spotted with many spots' (plural R)(st'&'lq 'spotted'). słełex 'stiff (in body)' (łxétem is also 'stiff (in body)')

Some examples also occur with s- plus R which are translated more as adjectives than participles, but this may be only fluent translation, and most likely the following are participles as well (at least in origin): stíte0el 'puny' (tí0-el 'get skinny', s-tí.0 'skinny, thin'), smelmélq' 'rough (of wood)', sx<sup>y</sup>ɛx<sup>y</sup>em 'shallow' (x<sup>y</sup>ɛ́.m0et 'got shallow'), sx<sup>w</sup>ɛ́.x<sup>w</sup>0' 'crazy, insane', sx<sup>w</sup>ix<sup>w</sup>ɛ́.x<sup>w</sup>0' 'stupid, a little crazy', (s)lí.leq 'easy', sxɛ́yxe0'es 'shamefaced' (xɛ́yxe 'ashamed'), sx<sup>w</sup>úx<sup>w</sup>e 'ambitious', syémyem 'pregnant'.

A number of examples are also found with s- alone or reduplication alone indicating their participial nature; see the next two paragraphs. (Some whose translation is more adjectival than participial have been included too; this seems to include most of those with reduplication alone).

st'épi 'dead (of a tree)' (t'épi@et 'die (of a tree)'), s\*'ép (AC) - sx\*\*\*, ép (Cheh., Tait) 'deep', sc'éyx\*\* 'dried' (c'éyx\*\* 'dry s-th'), scelé·l 'fading (of eyesight)', slíc' or selíc' 'full' (lec'-ét 'fill it'), smók\*\* 'found', scewát 'smart, good at, know how to' (also a plain Vi), sk'\*fy-lec 'lame' (k'\*fy 'climb'), slók\*-lec 'lame' (lek\*- 'break (a bone)'), s?ó·met '(always) lazy' (perhaps '?emét 'sit'), sqe?fy-eqel-á·yeel 'not fluent in speaking', stí·0 'skinny, thin', slé or selé 'tight, tightly' (adverbial Vi as well), st'elá·stel 'sitting side by side' (t'éles-T 'sit beside s-o'), sef·-qel (Sardis, AC) - sx\*\*A·á·s (Cheh.) 'loud' (ef·- 'big'), s'á·wê 'in a hurry, in a rush'

(possibly adverbial), sti-m 'hard (of exertion), done hard' (ti'm-et 'do it hard(er)'), sqayex-iye 'bragging, extravagant in claims, bull-headed', sxáyk'-0ət 'aggressive, touchy, hot-headed', sqwe-?f.wel 'hollow' (qwe 'get a hole'). sx watk -ewel 'hollow'. st'ayx brooding' (t'éyeg' 'angry'), syemyá 'cheap', s'f.k' 'lost (and presumed dead)' (?i.k, lost (of a person or an object)'), scákwełts 'borrowed, nick- (as in 'nickname')' (cák ett 'borrow'), sx emé 'open at the top' (x e-mé-x 'take s-th off that's fastened. (unfasten s-th)'. memé (possibly me mé) 'come off. (come unfastened)'). smf0'el 'proud', st'f'yx 'sad, worried', sk'fpx 'scattered all over' (\* epx-t 'scatter s-th'). scelé·w 'turned inside out' (celéw-t 'turn s-th inside out'), sc'épx 'dirty (of body, house, etc.)', st'é·lq 'spotted', ste?& (Chwk., Sardis), st'& (Tait, Cheh.) 'same, similar (to), like', st'elék' 'circular; a cirle' (also nominal), sxέ·lc'-əməθ' '(grown) twisted (of a tree)' (véle' 'twist').

cecfx\* 'swollen', xxxek'\*fwel 'constipated (wedged in rump)' (x6k'\* 'to wedge'), x5xxe( xfxe occasionally) 'ashamed', xyixyq'â·m '(mouth) hanging open' (xyeq- 'hang'), q6yqe 'soft', wàwistéleq 'jealous', c'f·c'ek' 'short', c'f·c'k'-emee' 'short (of a person)' (-emee' 'stature, standing'), e'ee'emf·l 'thin (of

material, string, dough, etc.)', xwaxweyi'wel and xwayi'wel 'happy', qwaqiwel 'tame (of an animal)', met'mét' 'supple, easy to bend (of things, esp. roots)', ciceł 'be above, high' (cil-eqw 'bushy and uncombed hair ("high hair")'), k'wa'k'wes or k'wak'wes 'hot' (k'was-0et 'get warm(er)'), q'aq'ey 'sick; dying' (q'a'y 'die, dead'), 0f0e 'larger, bigger' (of -stexw 'make it big'), xwaxwa or xwaxwe 'lightweight', t'6kwt'ek' 'muddy' (t'6kw 'get mired in mud'), xwek'is k'wek'wis 'narrow', k'wamk'wem 'strong (of a person)', sepsép 'stubborn', xf'xe 'sacred'.

tasting (of meat, nuts, etc., not sweet things)',
p'&p'x^W=m (x^W or x^W) 'shy, quiet, not talkative',
pápeq'em '(getting) mouldy (taste or smell)' (páq'West
'to rot'), 6'á6'eq'Wem 'rotten' (6'áq'Wem 'to rot'),
qéyqeyem ~ qíqeyem (Cheh.) 'slippery' (qéyyem 'slip,
skid, slide'), xéyxesem 'creepy', títex'Yem 'slimy'
(stíx'Yem 'fish) slime'), p'&p'&k'Wem 'smooth (water),
calm' (p'&p'&k' 'floating', p&k' 'to float, surface'),
('f'tetem 'sleepy' has continuative + -em though not
reduplication).

Functioning in a similar way but possibly not participles are the words inflected with -tem 'be in a state of (verb)-ness' (probably not from -T + middle or passive because all examples lack purposeful conrol): x&\*p\*q\*\*Wetm 'aching; rheumatism' (also a nominal), x\*\*\*ak\*\*weltem 'numb' (x\*\*ak\*\*weltem 'numb'), x\*\*a\*x\*\*we\*\*eram 'sexy' (sx\*\*a\*x\*\*we\*\*erazy, insane'), ?&t\*etem 'stretched' (?&\*t\* 'stretch'), &&\*lc\*tem (c\* - \*\*\*\text{o}\*) 'dizzy' (sel-'spin', -&lc\* 'around, in circles'), q\*\*\text{o}\*\text{e}\*mtem 'absent-minded' (q\*\text{o}\*\text{o}\* m' have a short memory'), \frac{1}{2}\text{o}\text{o}\* m' 'stiff (in body, as of arm, leg, etc.)' (cp. synonym s\frac{1}{2}\text{o}\*\text{o}, q\*\text{o}\*-lptem 'cramped' (but cp. q\*\text{o}\*lptem 'to cramp, have cramps' and q\*\text{o}\*\text{o}\*-lptem 'cramping'), sy\text{o}\*lotem 'poison-ed' (participial gloss may be from s-; y\text{o}\*le 'to poison'), ox\*\text{o}\*\text{o}\* m' swelling (of infected sore, balloon,

etc.)' (cp. cecíx' 'swollen'), télstem 'get staggered' (té·lstem 'staggering' and x'ex'elá·stem 'staggering'), and three marginal examples:  $\lambda' \ell x''$ tem '(have) diarrhea' (but op.  $\lambda' x''$ tem 'continuing diarrhea', root may be  $\lambda' \epsilon x'' -$  'ripped apart'), létxtem 'tremble' (but létxtem 'trembling, (thus) shiver, shivering' and létxeé·lem 'I'm trembling' seems to point to 'passive'), tateq' a'mestem 'tuberculosis' (táteq' em 'coughing') may fit here although it seems nominal.

6.1.6. Voice (active. middle. passive). The major question of this section is the middle voice. The active voice in Halkomelem is perhaps best defined as non-passive and non-middle voice. The inflectional affixes and paradigms of the active voice are given and discussed in the chapter on pronouns (4.4. 4.5. 4.8, 4.9, 4.12, and 4.13). The passive voice can be defined as a verb with an object pronoun being acted upon by an unspecified subject pronoun. The inflectional affixes and paradigms of the passive voice are also given and discussed in Chapter 4 (4.10, 4.12, and 4.13). The middle voice can be defined as a verb with a subject pronoun acting on or for itself without an object pronoun. Should this include reflexives and also many intransitives which have a patient (semantically) as subject? In fact, it is difficult to decide whether there is a middle voice in Halkomelem. In reviewing a list of about 850 intransitive verbs, almost 200 were found with the suffix -om (-m - -6m - -6·m - -â·m)(see 6.1.2.2 for this allomorphy). None of the 200 examples are passives. The question is, are all these middle voice or reflexive or intransitivized or are there some of each? Is this -om an intransitivizer, a reflexive, or a middle voice, or several of these (two or three homophonous suffixes with the shape -om, in addition to the passive -om)?

There is no use setting up a "middle-passive" or "medio-passive" -em because the nearly 200 examples of the "middle (?)" take pronoun subjects (whether patient or agent semantically) from 4.4 and 4.9, whereas the 'passive' takes its pronoun affixes from 4.10. Compare especially the first and second persons, which contrast clearly in this regard. The term "middle-passive" or "medio-passive" has been used up to now (when used) for third person forms where -em 'middle' and -em 'passive' forms are homophonous and the voice is unclear, but the terms "middle-passive" or "medio-passive" are probably misleading for Halkomelem.

The nearly 200 examples with -em fall into several groups according to their glosses. The first group fits the classical definition of middle voice best

but also fits as a reflexive: Group A: xyá·k, wem 'take a bath, bathe (oneself)' (xya·k,w-eT 'bathe s-o'. xyíxyk,wa·m 'swimming'). dep'asem 'to bend (with one's head down), stoop down, put one's face down' (qep'á·s 'face down'), spex elé·lém - spáx elè·lèm 'breathe, breathe heavily, sigh, blow out one's breath'. ?f.0'em 'to dress (oneself)'. θ'exwá·sem 'wash one's face' (θ'éxwesem 'washing one's face', 6'5x 'wash'), lé xom ~ k' é lem 'serve oneself (food, drink)', piwsem 'cross oneself, make the sign of the cross', x wayeq wen 'wash one's head' (-eq w 'on top of head, hair'), t'ewok' esem 'paint one's (own) face' (st'ewok' 'red clay powder for paint'). x mamx elem 'run (hurry one's feet)' (x emx elem 'running', x wom 'hurry: fast'), towo'em 'undress (oneself)' (1-owe-iθ'ε-m), λ'ερ'élecem 'wagging its tail' (cp. s-k'ep'-flec 'tail'), lic'eq em 'cut one's (own) hair' (lic'-oT 'cut s-o/s-th'). 'fq' esem 'wipe one's face' (xWe-?iq,W-ewi.ls 'wipe the dishes', ?iq,Wem 'rubbed off'), seqi.wsem ~ heqi.wsem 'put on one's pants' (seqi.ws 'pants', -i.ws 'on the body (or covering)'). qweyxélecem 'shake one's hips' (qweyx 'shake'), təx qeylem 'comb one's hair' (təx qeyl T'comb s-o's hair'), ?exá·y0ìlèm ~ ?exá·y0ílém 'shave oneself (on the jaw)' ('fx 'scratch' + -á'y001 + -í'1 + -om),

s^ae'iméwsem 'put on a shawl (shawl oneself)' (cp.
s^ae'imes 'a shawl (for the head)' + -ews 'on the
body' instead of -es 'on the face', root probably <
s-?fe'e-m 'clothes' + Aa and Aá·), legèlèm 'go underwater, submerge oneself' (léqem 'dive (into water)'),
and possibly q'wiq'welémgel 'changing one's voice (of
an adolescent boy), one's voice is changing' (q'waq'wel
'tame (of an animal)', -ém ('one's own'), -qel 'voice,
throat').

More examples could be cited. In all of them the subject is both agent and patient (semantically) and is animate. Most of the examples have somatic suffixes. Other examples which may marginally belong in this set include the remaining examples with somatic suffixes + ->m as well as a few without somatic suffixes:

Group B: melqf.wsem 'to faint' (mélq 'forget', -f.ws 'body', -em '(one's own)'), k'wecewf.cem 'look back' k'wec 'look', -ewf.c 'on the back (of a person)', -em '(one's own)'), xéyxec'em 'to itch', sexéylem 'move (oneself), move (oneself) ever' (sfxeT 'move s-th/s-o (ever)'), c'élecem 'take a seat, be seated' (c'é 'on top of', -lec 'rump', -em'(one's own)'), qéyxem 'slip, skid (as of kids on ice or snow for ex.)', 0'ik'wá·lésem and 0'f0'(i)k'wá·sem 'winking' (-á·les, -á·s),

yeqelcélem 'take his place' (yéq 'change, trade', -lec 'rump', -61 'go', -em 'one's' > 'go trade one's seat'), qeliyef:lem 'swear, curse, cursing' (qel 'bad', -á-yeel ~ -eyeel 'lip, jaw', -f:l 'go', -em 'one's'), qwelayef:lem 'make music' ('talk' + 'lip' + 'go' + 'one's'), qwellé:lem 'grumble, talk under one's breath' ('talk' + 'in throat' + 'one's')(cp. qwelqwelem 'grumble').

If the examples in group B are reflexive they are more covert (semantically) than examples in -lá·mət or -(e)@et. However they all seem to have subjects that are simultaneously both agent and patient and are animate. The alternate explanation to an -em 'reflexive, one's, oneself' in the examples of the last two paragraphs would be an -em 'middle voice'. The examples (especially group A) match examples of middle voice from other languages fairly closely. In any case, it seems that the -em of groups A and B is more than just an intransitivizer or else e'example, would be 'wash on the face' instead of 'wash one's (own) face'.

A larger group of examples (group C) could be interpreted as reflexives or middles by a stretch of the imagination: in some sense all can be interpreted as action by the subject upon itself or as a state of being (adjectival, participial) developed by and upon the subject itself with no perceived outside agent. The subject can be agent or patient, animate or inanimate. This group (C) includes the whole list of 15 participles cited in the next to last paragraph of 6.1.5 above (those with -R1- plus -em). Semantically the following group (C) includes a large number of words for tastes, sounds and visual effects, with some words for smells and tactile feelings and a number for involuntary physical actions (as well as other semantic areas). Omitting those already listed in 6.1.5 (largely tastes ('bitter', 'sour', 'sweet', etc.). smells ('stinking', mouldy', etc.), and tactile feelings ('chilled', 'slippery', 'slimy', etc.)), these marginal middles include: Group C: 0'& com 'to jingle, rattle, clatter, peal, toll', kwa·txwem 'make a banging noise (hammering, banging), roar (falls, etc.), rumble (thunder, quake, slide, for ex.)'. h'é yxem ~ h'é lxem 'to crackle (of fire, firecracker)' ( h'é yéx wem (y ~ 1) 'crackling': the variation is unexplained, probably includes errors). xépk, wom - h'émq' wols 'make a crunching or cracking noise (like ice breaking, chewing apples)', lá·px em '(make) noise', (possibly kwakwexwem 'rapping, knocking (in the distance)'), k on 'to thud (dull, outside)'. (possibly se.wc'em 'sharp rustling (leaves. paper)' and xwat k, wem 'soft rustling (of material), shuffling'), ge'yk'em 'squeaking sound (tree, chair, shoe, etc.) . q, wet; c; em 'gurgling, (make) sound of water sloshing or gurgling inside', t'&x qem 'suction sound of s-th pulling out of mud', c'&wq'em 'sizzling (of grease for ex.)'. t'syic'em 'fizzing (of soda, etc.. of s-th dropped into water)'. c'étxem ~ 0'étxem 'clinking, tinkling (of glass, metal, dishes, ice in glass. etc.)'. wélwelè m 'echoing': p'élq'em 'sparkle. glitter, flash', h'é·wq'em 'to glitter', c'é·lc'em 'dazzling'; tá·q' em 'to cough', xè·m 'cry, weep' and x£yxè·m 'sob', hés·em 'to sneeze', xwíq, wem 'snore', yá·q, wem 'to sweat', kwécem 'to scream', xéylém 'to growl (animals)', xéytem 'to growl (people)' (xéyteT 'growl at s-o'), k'Wá·yxWem 'to growl (of stomach)', (qwelqwelem 'grumble' may belong here), q'ee'm 'have a short memory': ya'k' em 'it broke, to break (of its own accord)(car, ice, plank, etc.)'. pak, om 'burst or fly into dust (of airborne seeds, dust, snow), get dusty', xwe'gyem 'clear (of river)', t'& lk'wem ~ t'slq' om 'warm, lukewarm (of food, drink)', leq om 'warmer (of day)', p'éq'em 'to bloom', pfx em 'fall off a plant (of petals, seed fluff, etc.), blow from plant', legélém 'dirty (of water, river)'; q'e'i'lem

'ancient (of person or thing)'. c'i sem 'grow (of anything animate for ex.)' (c'si'mt 'grow s-th planted'), e'ág' wem 'to rot (fruit, animal, etc.)', p'á' h'em 'to smoke' (belongs here when subject is patient; when subject is agent belongs more with intransitivized set)(cp. p'k'amt 'to smudge or smoke s-th out (mosquitoes, flies, etc.)', xépk' em 'brittle', xelc'íwélém 'twisted'; x etflem 'to cloud up' (sx etel 'a cloud'), p'aq' wem 'to foam' and p'ap'eq' em 'foaming; beer', p'f.vc'em 'give off spark(s), sparking' (aspect unclear). 0 6m 'subside. go down (of water or tide): sisəlc'iyasəm 'turn(ing) around in a circle'. g'ewgé.ylem 'turn around: turn or go around a bend'. pálx om 'to steam' (pá·léx om 'steaming'); c'eté·m 'crawl', légem 'dive (in)' (hélgem 'diving'), lém 'go, go to, going (to)' (le is auxiliary verb 'go, going, go(ing) to'), kwetxwf.lem 'go inside, come inside' (skwetexw 'be inside (a house, cave, etc.)'), lewf.lem 'go into an opening', x wewq, weylem 'go downstream', xweckwf.lem '(go) far away' (cakw '(be) far'), ?imex yasem 'go for a walk' (< walk (step + upright) + in a circle + middle/reflexive), t'f'c(')em 'swim (of a person)', xyetem 'swim(ming)(of a fish)', sixwem 'to wade'. 0'q'olxé'm 'kneel'. xyá'pom 'whistle' (cp. xyfxypà·m 'whistling'), xwe?f·yé·qepem '(to) joke'

(xw-- 'go, become', possibly xw-0'f. 'arrive, get here', y&-q 'change'); q'wem 'come out (at roots)(of plants, hair, etc.)', 0'&-lem 'chilled, cold (of animate being)', sfsem 'feel creepy, fear s-th behind one' (sf-si 'fear, be scared'). All of the examples above (group C) could be alternatively analyzed as intransitivized by an -em 'intransitivizer'.

The next group shows an -om 'intransitivizer' which cannot be middle or reflexive. All the examples have subjects which are agents and implied objects which are patients not equivalent to the agent subject. The agent is usually animate. The fact that the agent and patient are different from each other proves that these are neither middle nor reflexive: Group D: q'W61(') em 'to barbecue', leglisem 'to button' (lúi sieglís 'it's buttoned'), síq' em 'peel (cedar bark)'. 0'ém ~ c'ém 'chew' (0'ét ~ c'ét 'chew s-th'), k' xy f · m 'count' (k' xy ft 'count s-th', k. Wxy & ls 'count'), qa'm 'dip/pack/fetch water', li'm 'pick (fruit, leaves), picking', t'i'lem 'sing', xWi(y)xWiyém 'tell (children's) stories', lé·c'ewtxWem 'visit. drop in'. xyec'f.lem '(go) through the woods'. k, wf.m 'get off a cance' (possibly < k, wfy 'climb'), té·lx em 'tracking, following footprints', cé·lqem 'following (a person)', t'elf.lésem 'get side by side', hadilem 'crawl underneath'. xwcemes 'he met the place he started' (-es 'in a circle' here; cá·mtel 'meet each other, elope'), xweqwq£.ylem 'stick (s-th) down one's throat', tax wesem 'pull a canoe (by rope)(usually in rough water)'. p'ek' ee'lem 'eat a snack. throw a meal together of leftovers', co'sylem 'spearing silver spring salmon (so \*\* éxem) in clear water after waiting for them', Olyem 'bake (bread), fix (food)' (Givest 'fix oneself up', Giy 'fix, make'), k, wik, wec, em 'butchering', h, x e, ylem 'sit on eggs. brood eggs' (\*'éx" 'cover'), k"él'em 'get, fetch' (kWelft 'hold s-th'), GiyeltxWem 'build a house, make one's home', %'x wem 'give, giving' (aspect unclear), e'évé.m 'marry a sibling of one's deceased spouse' (0'éve 'sibling of deceased spouse'), cémem 'pack on one's back' (cémeT 'pack s-th on one's back', cmé.T 'packing s-th on one's back'), cémemle 'pack some (on your back!. pack a bit (on your back)! . k' fye m 'stingy of food, refuse to give (food)' (k' fyetes 'he refuses s-o s-th', h&.k'Welem 'remember' (cp. hé·k, wales 'remember s-o/s-th'), x wayém 'to sell' xwá·y-met 'sell s-th'), h'xwém 'win a contest' (possibly cp. h'exw 'cover' or h'exwt 'take advantage of s-o'). 6'6x welwetem 'wash clothes', yelk' watem 'close up a meeting , wind up or complete a meeting,

"break the cance" (give last spirit dance of the season in a given longhouse)', csélem 'send for s-th, send with a message' (cséT 'send s-o').

In addition to group D (and possibly group C). the remaining verbs in -om may be examples of an -om 'intransitivizer' as well: Group E: látq wem 'boiling, boil (?)(of water)', hèm - hf.m 'finished (of a story), over', xwmf.m 'empty'. calex wem 'bleed', 'iyá'lem 'right, correct, alright, okay, can', (me) tx wom 'early', % yem (e - 6) 'late. slow' (possibly related to 'f'y 'keep on'), há qwem 'give off smell' (há·qWeT 'smell s-th/s-o', há·qWlexW 'catch scent of s-th'. had wels 'smelling, sniffing (of an animal)'), 0'eq'em 'drip (once)' and 0'Eq'em 'dripping continuously', p'á-h'em 'to smoke' (belongs here when agent is human subject and the implied object is a cigarette, pipe, etc.), & &pexem 'fall down and scatter, drop and scatter (apples, seeds in planting, etc.)', leqem 'whisper' and leteqem 'whispering'. hilem 'fall and tumble, tumble', mé0'elqéylem 'tell a lie, lie' and ms0'flom 'bluff, pretend one knows' (smf0'el 'proud', -qel 'speech, language' + -fel 'get, go. come'). ?ewalem 'play', tè m - té m 'shout, yell, holler', sé yem 'ache, hurt, sore', 0 qelem - 0qé lem 'to still-dip with dip-net' (one or the other is 'continuative'), ?i'ayá(')m 'walk slow', q'616m 'to camp, make camp', ?f'yá'sem 'having fun', qeliy@flem 'swear, curse', q'ewétem 'drumming (for s-o)' (q'ewét 'a drum').

So it seems that there is quite probably a middle voice (if not a reflexivizer) -em, distinct from the -em intransitivizer and from -em 'passive (3rd person)'. The active voice is best defined as nonpassive and non-middle. And the passive is used for avoiding specification of subject agent (or for focusing on the object patient), for expressing an impersonal subject (especially with non-second person objects), and for expressing a third person subject with a second person object.

The three voices can also be looked on as Halliday does<sup>1</sup>, to paraphrase: a middle clause has only one inherent participant (an actor)("Hector sneezed", "the cat washed"); a non-middle clause has two inherent participants (actor and goal) but one or the other may not be actualized: the active may lack a goal ("Mary is washing (the clothes)") and the passive may lack an actor ("the clothes have been washed").

<sup>1.</sup> M.A.K. Halliday: "Language Structure and Language Function", pp. 146-165 in New Horizons in Linguistics, edited by John Lyons, 1970, Penguin Books, Baltimore, Md.

6.1.7. Mood (subjunctive ('when, if, uncertainty, with negation), imperative, interrogative). As discussed in detail in 4.9 of the pronoun chapter. with many examples, there is a special set of pronoun suffixes which are used as subject pronouns of verbs prefixed with we- 'if: when', with verbs after negative verbs ? we 'not be, be not'. ? ew& 'if not'. x wow f 'not yet', and with auxiliary verbs after some interrogative verbs. This inflectional set (4.9) can be called the subjunctive mood, since the term subjunctive mood is used in many other languages for similar syntactic and semantic purposes (hypothetical, negative. and uncertain). It further fits well as a "mood" because it contrasts with the other traditional declarative, imperative and interrogative moods. All four moods are mutually exclusive within a verb; they do not affect object inflection, that is, the same object affixes can be used in all four moods. More will be said of the subjunctive in the syntax chapter, but little needs to be added here to what has been given in discussion, paradigm and example in 4.9. It could be added that even nominals used as verbs (swiyeqecel 'T'm a man') can be made subjunctive: (EB) weswiyeqf.'s ge westeliyes 'if it's a man or a woman' and (AC) welslec'ées 'if it was one person' (both examples show

the morphophonemic rule of vowel combination  $e + e \rightarrow \varepsilon \cdot$ ).

A <u>declarative mood</u> can be set up and defined as inflectionally non-subjunctive, non-imperative, and non-interrogative. Most of the verbs given so far in this grammar have been in the declarative mood. More will be said of the declarative in the chapter on syntax since moods have a tendency to be syntactically and semantically transferred to whole phrases and sentences. But here we are discussing verb inflection and there is no overt 'declarative' morpheme (it cannot be the -c- in first and second person subject pronoun suffixes). The declarative verb is merely one which lacks subjunctive, imperative and interrogative morphemes or inflections.

The <u>imperative mood</u> gives a command to the hearer or hearers and has several inflective suffixes:
-le [læ] 'imperative, you (sg.) subject' (not used

-cic [æiæ] 'imperative, you (pl.) subject' (not used with negative or auxiliary verbs)

with negative or auxiliary verbs)

- -1 (EB has -t1) 'imperative, you (sg.) subject, mildly urging' (used with auxiliary verbs ls(m) 'go(ing)(to)' and me mf 'come, coming')
- -cex<sup>W</sup> 'you sg. subject' substitutes for -lε imperative

(most frequent in Cheh. and Tait, less common in Chill. where -ke is preferred; used also with auxiliaries ls(m) and me - mf, and used with '56we or '56we 'not, don't' in all three dialects; Cheh. and Tait frequently have a more emphatic form -cxwa 'you just ...!' < -cexw '21 ('21 - 22 - 22 'just' as in English "you just do it!"). Also note that since -cexwa, -csp, and -cet are used as imperatives their initial -c- cannot be a declarative morpheme.)

- -cep 'you pl. subject' substitutes for -ele imperative (most frequent in Cheh. and Tait, less common in Chill.; used also with auxiliary and negative verbs in all three dialects)
- -cet, -ct 'we subject' substitutes as a first person
  plural imperative when it follows auxiliaries lc
  and me (lscet lsct 'let's' and 'we're going to',
  mecet mect 'let's (come and)' and 'we're coming
  to')
- -àwòł (Chill.), -èwòł (Cheh., Tait) 'polite imperative?,
  you sg. subject' (rare, used only in a few phrases:
  háyàwòł ~ háyòwòł 'goodbye (leaver to stayer)' (almost like 'stay well!', háy means 'finish'),
  lémàwòł ~ lémèwòł 'goodbye (stayer to leaver, leaver
  to leaver), go ahead (polite)!' (like "go well!"),
  ?&?&?àwòł 'you're welcome' (?&.?& 'yes'),

- % awhite listening) (said while listening to stories) (AC)
- -lqWe 'polite imperative?, you sg. subject' (dubious, only one example: '?emét-lqWe' 'Sit down (polite command)!' which contrasts with '?emét-le kWé' 'Sit down then!' which includes kWé' 'then').

These imperatives and pronouns used as imperatives are always final in the verb word when they occur. They can be preceded by any intransitivizer, beneficiary suffix (benefactive, reflexive, reciprocal), transitivizer (except -1 'happen to, ...'), object suffix, or voice (except passive). Imperatives have not been attested with continuative aspect, -1 transitivizer, participles, nor in the passive, and imperatives cannot co-occur with past or future tense affixes nor with subjunctive or interrogative affixes. Imperative suffixes function in part like subject suffixes and so perhaps also belong in the chapter on pronouns.

The lack of imperatives with -1 control verbs and some intransitive verbs (prepositional, adverbial, interrogative, personal pronoum, demonstrative, and some verbs whose action a subject cannot do on command) is quite interesting; it seems the result of morphosememic and/or syntactic incompatibility. The -1

verbs in particular are verbs over which the subject does not have complete control and therefore cannot be ordered to do (see examples below). Examples: 1.(AC): (?a)mi-le '(you sg.) come!'. miy-sle '(you pl.) come!'. ?emét-la '(you sg.) sit down!'(also 'sit up!'). ?emét-ele '(you pl.) sit down!/sit up!'. \delta \text{\formalfolder} -\delta \tex  $m \in y - \theta - \acute{a}x^{y} - \dot{a}\varepsilon$  'help me!',  $m \in y - \theta - \acute{a}x^{y} - \varepsilon \dot{a}\varepsilon$  '(you folks) help me!'. '£yelex"-1s 'get well!' (not -1 control. cp. '£yelex lex 'keep s-o alive'), k'xy : m-cex ' 'you count! (said if you already told him once and he stands there stupidly)' 2.(EB): ?ál-st-exW-le 'put it on board!'. píxW-et-cexW 'brush it!', mey-0-áxy-cexw 'help me!', cém-et-le 'pack it (on your back)!', cfm-om-le 'pack some!, pack a bit (on your back)!', c'ek x-é·ls-le 'fry some!, fry a bit!'. Giy-6tc-et-ts 'make or fix it for him!'. p'ówiy-elc-0-áxy-cexw 'patch it for me!'. ?f-2c-st-exW-cxWa '(just) leave it for him!'. seehi-eet-cxwa 'just you be careful!'. tesé-eet-ete míy-εłε teséθet '(you folks) come near!, (you folks) sit in (with us) and eat! (tesé@et come close or near', tés 'get up to, approach'), yègw-elcep-e-áxy-le 'make a fire for me!'. can't say \*kWol-l-exW-le 'find it! nor \*k, wec-1-ex -te 'see it!' (AC agrees)(one

must use k, Wec-et-le 'look at it!') Si(AC): le-1 xyá·k, wem 'go bathe!'. le-1 mé·yt 'go help him!', ls-1 'f.yel 'go away!', ls-1 t'á.k' 'go home:'. le-1 leg'et to xy &1 '(go) widen the path:'. mi-tl q'axyel@axy 'come with me!', me-l q'a'l-0et 'come back!', me-1 qá·1-t to qá· 'come get/dip the water! 4.(EB): lém-tł kW61-1-em te s(i)yáł 'go fetch the wood!', l£m-tł ?£.yel 'go away!', me-tł ye-sq'á ~ mi-tl ye-sq'á 'come along!' (vs. mi-le 'come!' and miy-sie '(you folks) come! (telling them they have to)'). xyálm-e0et-cexw 'take care of yourself!', ?ówe-cxw tates-et-ex don't touch it! 5.(AC): ?6we-csp lém-ép q'á - Oet 'don't you folks go mix (or associate) with them!'. ?owe-cx (we)l&m-ex deldel-f.l-eet-ex don't (when you go) go get yourself dirty!', ?ówe-cxw xwiye-eqe-eáxy-exw 'don't you repeat what I say!', le-ct ?62tel 'let's go eat (a meal)!'. 1s-ct he we 'let's go hunting!'. 1s-ct t'á·k' 'let's go home!: we're going home', la-ct may-t-ale 'we're going to help you folks' 6.(EB): me-ct %f.yelexW-stexW to s-qWt.l-cet 'let's keep our language alive!'. ls-ct li'm 'we're going to pick (fruit, etc.), we're going picking'. la-ct

?imexy-ás-em 'we're going to go for a walk' (AC 'let's

go for a walk:)

(le-ct t'á·k' (AC) in 5 above could be seen as having the imperative interpretation, 'let's go home!', if the speaker intends first person plural inclusive, and having the declarative interpretation, 'we're going home', if the speaker intends first person plural exclusive.)

The interrogative mood, like the other moods, has syntactic and morphosenemic jurisdiction over the whole sentence, and more will be said of it in both Chapters 11 and 13. The most common method of forming interrogatives is syntactic, using interrogative auxiliary verb 1f at the beginning of the sentence. There are also interrogative verbs which form a distinct set (see 6.7 in this chapter) but which are not inflections. Here we are dealing only with inflections, and the only interrogative inflection found in Upper Stalo Halkomelem is  $\{-9\}$  //-9 ~ - $\epsilon$  ~ - $\ell$ ./

Interrogative (-e) is found in the nine morphological contexts given below. Although only third person sg. is glossed in 1, 2, 3, 4, and 6, all other persons, numbers, and genders occur as interrogative subjects; other persons and numbers are likely in 5 and 8 but are not yet attested.

- 1. If(·) ~ If or live (+ pronoun suffixes 4.4)

  'Does he ...?, Did he ...?, Is he ...?' (the latter gloss with statives). If and live are not frequently found, mainly occuring in slow or hyperslow pronunciation; If(·) seems to be acceptable in all cases instead, waxing historically while {-e} is waning. The answer to If(·) (and If or live) questions can be simply If 'He does., He did., He is.' (Note that If(·) also means 'Does she/it/they ...?, etc.' and with suffixes 4.4 interrogates other persons that third person (for ex. If(·)-cel 'Do I...?, Did I ...?, Am I ...?). 'He' in 1, 2, 3, 4, and 6 is only an abbreviation for these possibilities.)
- 2. lf(·)-l-e lf(·)-l-e (+ 4.4 suffixes) 'Was he
  ...?' This is the same interrogative lf(·) as in 1.,
  but when past tense -l is suffixed the (-e) follows
  the -l. -e also varies with -e, mainly in slower pronunciations of AC. The answer can be lf(·)l 'He was.'
- 3. léme (+ 4.4 suffixes) 'Is he going?, Is he going to ...?' Alternates with  $lf(\cdot)$  lém which is translated identically. The answer can be lém 'He is going., He is going to ...?'
- 4.  $\text{sk}^{\text{W}}\mathcal{E}(\cdot)\text{ye} \sim \text{sk}^{\text{W}}\mathcal{E}\text{ye} \sim \text{k}^{\text{W}}\mathcal{E}\text{ye} \sim \text{k}^{\text{W}}\mathcal{E}\text{ye}$  (+  $\text{k}^{\text{W}}(e)$  + 4.8 affixes) 'Can't he ...?' Again the -s variants seem to appear in slower speech, but otherwise the forms

seem to be in free variation. AC hinted that some people prefer the forms with s- and some do not, but it is unclear whether this is idiolectal or dialectal variation. \*lf(·) sk,  $^{10}E(\cdot)y$  is not permitted. The declarative is  $sk, ^{10}E(\cdot)y$  (+  $k, ^{10}(\cdot)$ ) + 4.8 pronouns) 'He can't ..., It's impossible that he ...'

5. % sk'iye 'Do you want ...?' The use of {-0} with sk'i(y) is only attested in 2nd person singular so far. sk'i(y) is a nominal in Halkomelem but a verb in English; it takes possessive pronoun inflection to show its subject in English (% sk'i(y) is literally 'my want', and becomes 'I want' in smooth English translation). The interrogative li(·) % sk'i 'Do you want ...?' is much more common than % sk'iye; % skiye seems like a remnant of a once more common inflection.

6. ?ew& (+ 4.4 pronoun suffixes) 'Doesn't he ...?'
?ew&-1 (+ 4.4 pronouns) 'Didn't he ...?'

(%)wé·tɛ (+ 4.6 pronouns) 'Doesn't he have any ...?' All three interrogatives are based on %we 'is not, does not, etc.' + -&(·); the second adds -\frac{1}{2} 'past tense' before the interrogative; the third adds -te '-body, -thing'. Compare %we 'he is not, he doesn't', %we\frac{1}{2} 'he didn't, he wasn't', and (%)wétɛ 'none, nobody, nothing'. \*1f(·) %we (+ 4.4), \*1f(·) %we\frac{1}{2} (+ 4.4), and \*1f(·) (%) wétɛ are not permitted.

- 7. k'á\*, possibly k'á\* or k'á°ɛ 'Is that ...?, Is it ...?' Compare k'á 'that is ..., it is ...'. The traces of -e -s here are very tenuous but apparently present.
- 8. lewé. 'Is it you?' was recorded twice from AC and seems to indicate the interrogative suffixed to pronominal verbs. Compare léwe 'it is you'.
- 9. spé·0e 'Is it a bear?' and sc'á·ié "Is it a leaf?' were each recorded once from AC. They seem (if not errors) to indicate that nouns used as verbs can be made interrogative with {-e}. Compare spé·0 (used all by itself) 'It is a bear.' and sc'á·iɛ (used alone) 'It is a leaf.' The cognate construction in Musqueam dialect Halkomelem is spé·2e 'e 'Is it a bear?' with 'e 'interrogative'. It should be noted however that this construction is not common in Upper Stalo dialects. And the alternates lf· spé·0 (or lfye spé·0) are found 95% of the time instead.

Examples (from AC except where marked):

1. lfyecex k, wámk, em (slow) 'Are you strong?'

lícx léyem (normal), lfyecex léyem (slow) 'Are

you laughing?'

<sup>2.</sup> Wayne Suttles: Unpublished grammatical notes on Musqueam Halkomelem for Anthropology 407, Winter 1969, Portland State University, Portland, Oregon.

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live me kwetxwi.lem to sqwemey 'Is the dog inside?'
livecel si silàmè 'Did I scare you?'
liye gex 'Is there a lot?' (li. qex 'There is a lot.')
(EB) livecex hek, weles 'Do you remember?'
2. lf(*) tecel memiyet 00 Mary 'Was I helping Mary?'
li.tecet memiyet 0e Mary 'Were we helping Mary?'
litacx memivet 0e Mary 'Were you (sg.) helping Mary?'
litecep memiyet to Mary 'Were you folks helping Mary?'
lite memiyetes tú·k'à 00 Mary 'Was he helping Mary?'
(EB) litecsp lem k' a tawel 'Did you folks go to town?'
(Co. li.tcel 'I was.' and li.tcet 'We were.')
3. lémecel 'Am I going?'
lémecex 'Are you going?'
léme ?镱tel 'Are they going?'
léme yi0é 'Are those people going?'
(AC.NP) lémecex t'à·k' Are you going home?
(EB) lémecep tawel 'Are you folks going to town?'
(Cp. li. lim ?f.tel 'Are they going?' and li. lim
   'Is he going?')
4. sk, wéye k, wels k, weclex - sk, weys k, wels k, weclex
   'Can't I see it?'
sk, wéye (~ sk, wéye) k, wes k, wéclex "Can't you see it?"
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'Can't I see it?'

sk'\*éye (~ sk'\*éye) k'\*s k'\*éclex\* 'Can't you see it?'

sk'\*éye k'\*(e)s k'\*éclex\*s 'Can't he see it?'

sk'\*éye k'\*s k'\*éclex\*cet 'Can't we see it?'

sk'\*éye k'\*s k'\*éclex\*elep 'Can't you folks see it?'

- k, We've k, Wes k, Weclex 'Can't you see it?' k, Wf. ve k, Wes k, Weclex Welep 'Can't you folks see it?' (Cn. sk, wf.y k, wels k, weclex 'I can't see it.'. etc. and lí ?ivá·lem k, Wels k, Wéclex 'Can I see it?')
- 5 % shifte k, wa ga. 'Do you want some water?'
- lí ?ε sk'í k'We qá· 'Do you want some water?'
- 6. ?ew£ lis yé@estalem 'Did(n't) they tell you folks?, Weren't you folks told?'
- ?aw£ ?E sk'fyes k' es k' eclex cet 'Don't you want us to see it?
- ?aw&l le t'illeme@am to syúwóls 'Didn't he ever sing his spirit song to you?'
- wf.te ?e smfy60 'Have(n't) you got any meat?' (lit. 'Is it none, your meat?')
- ?awéts k, wa la q walsea m 'Did nobody/Didn't anybody speak to you?' ('Is it nobody that spoke to you?')
- (EB) we to st flmex 'Do(n't) you have any medicine?' (lit. 'Is it none, the medicine?')(a more strict translation would be 'Is(n't) there any medicine?')
- (Co. ?6we lis y60estalem 'They didn't tell you folks.. You folks weren't told.', 'éwel le k' éclà m 'He didn't see you. You weren't seen.', and ?awats k, We le q Welsea m 'Nobody spoke to you.')
- 7. k'á. k'Wel méle 'Is that my child? (you're talking about' (unclosed parenthesis within a gloss indi-

cates semantic context)

\( \text{k'\delta'} \) \( \text{csu} \) \( \text{(Cp. \text{k'\delta'} \) \) \( \text{told.''} \) \( \text{8. low\delta'} \) \( \text{Is it you?'} \)

\( \text{low\delta'} \) \( \text{if i' Is it you, Edie?'} \) \( \text{(Cp. l\deltawa 'It's you (sg.)')} \) \( \text{9. sp\delta'\delta'} \) \( \text{Is it a bear?' (rare)} \) \( \text{so'\delta'\delta'} \) \( \text{It's a leaf.',} \) \( \text{and lf. sp\delta'\delta'} \) \( \text{It's a bear.', sc'\delta'\delta'} \) \( \text{It's a leaf.',} \) \( \text{and lf. sp\delta'\delta'} \) \( \text{Is it a bear?' (AC, MC, etc.)} \)

6.1.8. Tense (present, past, future). Present tense is the catch-all tense, used to indicate present action (which must be continuing as the speaker speaks—continuative aspect), habitual action (which may be spread over past, present, and future), momentaneous action (which the speaker is about to perform—non-continuative aspect), and past action (historical present in narratives, legends, etc.). Present tense is the unmarked tense. Past tense is marked by {-1} on a preposed auxiliary verb or syntactically by preposing subject pronoun affixes of 4.4. It can refer to past time of any depth, duration or iteration. It can also be used interchangeably with historical present in narratives or stories. Future tense is

marked by verb final {-cs} or syntactically by auxiliary la 'going to' (as in English "I'm going to go."). It can refer to future action of any depth, duration or iteration, but it cannot begin momentaneous to the time of speaking -- that is, the action may be imminent in five minutes, five hours or fifty years but not in five seconds with the actor already poised to begin (that would be present non-continuative). Future is also translated by 'will' + verb + 'in a while! The same pronoun sets are used for all three tenses. Some examples will contrast the tenses: p'é0'cel 'I sew, I'm going to sew (momentarily, holding the needle)', p'&0'colcs 'I'll sew (in five minutes, five hours, or tomorrow)'. p'&p'ee'cel 'I'm sewing', p'&p'e0'celcs 'I'll be sewing', ('f'+)cel p'&.0'et 'I sewed s-th'. ('f.1)cel p'&p'e0'et 'I was sewing s-th'.

Many examples of the present tense have been given already in this chapter and chapter 4; since there is no inflection for the present, not much need be added here.

Similarly, the inflection for future is quite straightforward: -cs is added as the last suffix on the verb word. There are no complications except for the auxiliary future: ls + subject pronoun suffix (set 4.4) + verb (as in lecel méy@ame 'I'm going to help you.'). In this latter construction some displacement from the site of the speech event is usually also implied -- that is, the speaker is literally going somewhere to perform the action. It is unclear at present whether this displacement is future or momentaneous present or either one; AC implied that it could be either one. Some examples of the -cs future follow, showing its co-occurence with most of the other verb inflections: n'ákWce 'it will float' \*'ace 'that will be, it will be (him. her. them)' səlci mce 'how shall ...?. how should ...?' sk; Weves k; Wels melgles 'I'll never forget s-o/s-th' (lit. 'it will be impossible that I forget s-o/s-th') lice sp'sp'ék" 'Will it float?' livecs lam 'Will he go?' (Mamie Cooper) ? Swecs me k, Weclelemet 'I won't be seen. Nobody will see me. wéce lemél vewé. '(Won't you take me along?), Will you take me along?, Can I go along?' e'fa' eeamécelce 'I will punch you' o'WadWlamecelce 'I'll hit you accidentally' ste? Estex wesce 'they will follow him, they will do like him' ('they' and 'him' could be replaced in other

contexts than the one in which ste? Estex weece was elicited by 'he/she/it/they' and 'her/it/them')
?el? 6liysmeeam 6celcs 'I'll dream about you'
%:f.lsax weece ~ %:f.lslesax weece 'he/she/they will
like me'
!fc:elceam 6celcs 'I'll cut it off for you'
t:ft:elemcelcs ~ celcs t:ft:elem 'I'll be singing' (AC
uncertain on this)
mslqf. weemcelcs 'I'll faint'

x5yw6clà·mcs 'you'll be warned, s-o will warn you' k' 6clà·mcs 'you'll be seen'

?£ys0&l0mcs 'I'll be liked'

licx sieq elex welfmesce 'Do you know if he'll go?'
There are no examples with imperatives. No examples have yet turned up of -cs with reflexives or participles but they are likely to occur.

The inflections for past are somewhat more complex. The following constructions and inflections are employed for past tense:

- 1. Present forms can be translated as past in a narrative context (as mentioned above), even narrative in conversation, and after past time adverbial verbs (like 'before', 'long ago', etc.).
- A past tense is formed by pre-posing subject pronouns in set 4.4 as independent words in front of

the verb (see pronoun chapter under 4.4); this is sometimes also translated by present tense, perhaps depending on context.

- 3. Subject pronouns 4.4 can be suffixed to a meaningless auxiliary verb ?6 <sup>1</sup>⁄<sub>2</sub> ?€ ([?1] ~ [?€]) and remain pre-posed to the main verb; this construction seems to be used like the past tense in 2 just above. Also {?6} + t'we 'must' + weł 'already' (//?6 t'we weł// → /?6t'wo(w)ł/ ~ /?€t'wo(w)ł/ 'must have, must have been'.
- 4. Subject pronouns 4.4 can be affixed to the past tense suffix -1; -1 usually is affixed to an auxiliary or negative or interrogative verb preceding the main verb. There are many types of these constructions, and none can be translated with present tense:
  4.1. ?f:-1-4.4 m.v.(=main verb) past tense
  ?f:-1-4.4 t'we m.v. 'must have, must have been'
  ?f:-1 ?iyá:lem k'\*-4.8-s m.v. 'could have'
  4.2. d.a.(=demonstrative article) ?f:-1 4.6 s-subord.verb
  past relative (as in 'what you folks wanted')
  d.a. ?f:-1 (le) subord.verb past relative
  - (as in 'the one who escaped')

    d.a.-4.8-s ?f.-1 subord.verb past subordinate

    (as in 'it was loud, your past laughing')

    d.a.-4.6 sx<sup>W</sup>-subord.verb-£1 past relative (as

in 'where I used to walk')

- 4.3. 11 -1-4.4 m.v. past tense
- 4.4. lf.-1-ε-4.4 m.v. past interrogative
- 4.5. 16m-s\(\frac{1}{2}\)-4.4 m.v. auxiliary past with le(m)

  mf\(\frac{1}{2}\)-4.4 m.v. auxiliary past with mf\(\frac{1}{2}\)
- 4.6. ?6we-1-4.4 m.v. ?6we-4.4-1 m.v. negative past habitual, 'never'
  - ?@w-£1-4.4 (?f., lf.)-4.9b m.v. negative past habitual, 'never'
  - ?@w-£1-4.4 m.v.-4.9a negative past habitual,
  - ?sw-E-4,4-1 (?f.-4.9b) m.v. neg. past habitual,
- 4.7. ?ew-ε-1-4.4 (1e) m.v. neg; past interrogative
  4.8. adverbial Vi-e+ past adverbial
  (we+ 'already' is an adverbial verb or particle which

may have -\(\frac{1}{2}\) 'past' or lack it; its derivation is unclear. le we\(\frac{1}{2}\) may be now. is a completive construction generally in the past because of pre-posed le (note that le we\(\frac{1}{2}\) always \(\rightarrow\) /lu\(\frac{1}{2}\); but lf we\(\frac{1}{2}\) (the interrogative version of le we\(\frac{1}{2}\)) shows present is possible as well as past; lf we\(\frac{1}{2}\) lfm 'Is he already gone?, Has he already gone?'. we\(\frac{1}{2}\) is often merged with preceding unstressed words and becomes -w\(\frac{1}{2}\) or -u\(\frac{1}{2}\) (as in lu\(\frac{1}{2}\), \(\frac{1}{2}\) three 'Mu\(\frac{1}{2}\) flee (EB, et al), \(\frac{2}{2}\) three 'St'wo(w)\(\frac{1}{2}\)).

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Examples:
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1. yéeestex cex 'you told him, you tell him'
yéestálx es 'he told us, he tells us'
lícx x e?í·lx 'did you bring it?'
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li. le hewe 'has he gone hunting?'

liye m&y@a.m 'were you helped?'

?&ysellom 'I was liked, I am liked' (Passives are usually translated with past tense. Questions often are too.)

?f± xét'e k'\*es x\*e?f·s k'\*e sxéxe±èt 'He said he'd
come on Sunday.'

 $2f \cdot 1 + cx^W$   $x + ct = k \cdot 1^W$  is me méyeà $x^V$  'You said you were coming to help me.'

lis log'él ox 'She knew long ago.'

yeléw szézelét k<sup>w</sup>ses x<sup>w</sup>e?i. 'He came after Sunday.' yewélmels k'<sup>w</sup>es x<sup>w</sup>e?i. to x<sup>w</sup>elftem 'before the white

man came

2. cel ?á·xWest 'I gave it'

cel yé0estexW 'I told him'

le petláx es 'he recognized me'

le lêm 'he went'

le lèm tlàwéyél 'he went today'

le le hewe 1 le lem hewe 'he's gone hunting'

?ficexw tus?&y?el k?wss le l&yem 'you were laughing
softly'

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temtem k'Wes le Ofyt 'When did you make it?'
   (Normally subordinated past uses 10 (in any person).)
cel k' "éclàmè 'I saw you'
le c'emedáxyes 'he bit me'
le méy€à•m 'you were helped'
le mévtem 'he was helped'
le mévellem 'I was helped!
lo ka delèlàm 'I was seen'
le dwadwel 'he was talking'
le q w6.1q weltel 'they were talking together'
(The next four examples show present translation in
   spite of inversion.)
cal ?f.k, wala 'I'm here'
lo ?fok, Wala 'he's here'
cal tift'elem 'I'm singing'
cel lim 'I'm picking (fruit)'
le '£tal 'he (she, etc.) ate a meal'
le ?f.ltel 'he's (she's, etc.) eating a meal'
3. %cel lèm 'I went' (cp. cel lèm 'I went')
(?£cel, ?£cexw, ?£cet, ?6cép) ?£ltel '(I, you, we, you
    folks) ate a meal'
 (Note: {%} is not found in third person, only 10.)
 ?écel lic' 'I got cut'
 ?6cex xyá·lí·s 'you went into fatal shock'
 ?ścel k'wśclex 'I saw him, I see him'
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?écel 0'á·lem 'I got cold'
?acel 0'a0'elem 'I'm still cold'
(%)cel cá·léx wem 'I'm bleeding'
?ácex wa?íyet (or wa?í.t); ?éwecell tel.á.met 'What
   did you say?; I didn't understand.
?¿cel sí·silalè 'I scared you folks'
?et 9wo(w) 1 lem 'He must have gone., He/She/It/They
   must be gone.
4.1. 7f. lèm 'he's gone, he went'
(?f.tcal. ?f.tcaxw. ?f.tcat, ?f.tcap) lèm '(I, you,
   we, you folks) went'
?f.+ xét'e 'he said'
?f.tcexW ?f.k,Wela 'you were here'
?f.+cexW lf. tf k, wss t, ft, elem 'you were over there
   singing 1
?f. tol t'it'elem 'I was singing'
?f.+cexW lf.y0axy 'you were laughing at me'
?f.±(cel, -cexw, -cet, -cep) q'áq'ey '(I, you, we,
   you folks) was/were sick'
 ?f.+ q'áq'ey θúh'à 'she was sick'
 ?f.icel x veyeeqel 'I was interpreting'
 ?f.+coxW ?cloce 'where have you been?, where were you?'
 ?i.lcax wa?i.(ye)t 'what were you doing?'
 ?f.tcel t'we ?f.tet 'I must have been sleeping/asleep'
 ?f.+ ?iyalem k; ws ?&+telelep 'you folks could have
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esten' (lit. "it was alright that you folks eat") 4.2. to ?f.+ ?s sk'fyelep 'what you folks wanted' to 21.1 la hifew 'the one who escaped' xwavfwal tel sowelewel kowes le tés te of.t os skwa.l 'I'm happy (my thoughts/feelings are happy) that it has come to (the occasion of) your past birth.' (translation by NP of the Happy Birthday song) ?f. tox were laughing londly. tel sx "?f ·mex Et 'where I used to walk' (from a song as sung by CT) 4.3. lf. t(cal, -cax -cet, -cep) q'aq'ay '(I. you. we. you folks) were sick' 1ft g'ág'ey (túλ'à, θύλ'à, yeθέ) '(he, she, they) was/were sick: lficel he we 'I've been hunting' lf.+cel ls t'ák,W 'I went home' lf.tcəl 'I was' li.icet 'we were' lf. + ?£ysea. 'you were helped' lf. tcel q, weyel. exy 'I was dancing' li.icel ls q, weyel.ex I went dancing 4.4. lf. ±e(cel, -cxw, -cet, -cep) memiyet ⊕e Mary '(Was I, Were you, Were we, Were you folks) helping Mary?'

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li ·le memiyetes tú·k'à ⊖e Mary 'Was he helping Mary?'
1f. to lf. yiek 'Were they (those people) there?'
lf.±s lf. ?£.±tel 'Were they there?'
lf. tecx lf. 'Were you there?'
lflecexw x2.m 'Were you crying?'
litecep lem k'We tawel 'Did you folks go to town?'
4.5. lémelcel méy@ame 'I was going to help you'
16melcax w méveax 'You were going to help me'
mf. +cex w méyeaxy 'You were coming to help me'
4.6. ?swecell owelseame 'I don't speak to you., I
   never speak to you.
?awacxwl gwsls0axy 'You don't speak to me. You never
   speak to me.
26wel dw6ls0axyes (tú. h.a. 0ú. h.a) '(He. She) doesn't
   speak to me., (He. She) never speaks to me.
?6wecett gWfls@amb 'We (don't, never) speak to you.
?śwecspł qWélstalxW 'You folks (don't, never) speak
   to us.
 ?6wecell lêm 'I never go'
 ?swecell le q'á · Oet 'I never go mix (with them)'
 ?6wel le k' bcla lèm 'He doesn't see you folks.. You
    folks are never seen.'
 ?óweł le k' wetlelem 'I wasn't seen., (I was never seen)'
 (cn. ?6we lis k'Weclelem 'I wasn't seen.')
 (?Swecell, ?Swecetl) tel. f.met '(I. We) don't under-
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stand. ?6wel tel.á.met 'He doesn't understand.' you don't talk to me?' (?ss probably sic for k, wss) (The next five examples are from EB:) ?ówołcel k, wc.y (and ?ówołcel k, wak, wey) 'I'm never hungry. ?éwełcel x<sup>₩</sup>lɛlɛ̂·m 'I never listen.' ?6wel ?ftet 'He never sleeps.' ?Swel xi.m 'He never cries.' wift kowe(?E)s ?Swer here welles 'Why don't you (ever) remember? (k, we?ss is hyperslow equivalent of k, wes and is found in EB's idiolect but not in AC's) (The remaining examples are from AC unless noted.) ?ew&tcel ?il sk'fk'eqet f ?ew&tcel sk'fk'eqet&l 'I wasn't a child. (I wasn't ever a child.)' ?ew&dcexW lixW sk'ik'eqed 'You weren't a child.' ?ew&.tcel lf.l lf 'I was never there.' ?aw&.cr + tel.a.met 'You don't understand.' ?ew&.cspl tel.á.met 'You (pl.) don't understand.' 4.7. ?ew&l le t'ileme@a'm te syúwéls 'Didn't he ever sing you his spirit song?' (This is the only example of 4.7 but is convincing because ?ewé is negative interrogative, as in ?ewecx lemex 'Will you go?'

or ?ewecxw t'flemexw 'Will you sing?, (Won't you

sing?)')

- 4.8. ±6q'e± 'used to' as in ±6q'e± xét'e yé xwelmexw'

  'the people used to say'(EB) and (EB) ±6q'e± wiyáe

  c'f.ye± yé xwelmexw k'wuw±fee± 'The (Indian) people used to pray all the time long ago.' (AC would have c'ehéye± 'pray'; k'wuw±fee± < k'we we± hfe -e± 'what' + 'already' + 'is a long time' + past tense)
- (AC) lf.tsl 'morning' (s-lf.t 'night', lslf.t or ls lf.t 'getting night', -el 'past')
- (AC) spelwéł 'last year'
- (AC, EB) celéqel 'yesterday' and celéqelel 'it was yesterday' (latter is used in sentences more than the former)
- 6.1.9. Plurals and Diminutive (plural subject, plural object, plural action, plural completive, repeated action, and diminuative). In something over 1200 verbs, 53 were found with special inflections for plurality. Since all but one or two were volunteered without being asked for the pattern is apparently quite productive in the language. Most of the forms came from the Coqualeetza Elders Group or EB; few came from AC but she also knew fewer nominal plurals. The pattern for pluralizing verbs is much the same as for pluralizing nominals; reduplication R<sub>3</sub>-, less often -R<sub>2</sub>, and sometimes infix -le- or -el-. The suffix

-f·m 'repeatedly' (treated as a lexical suffix in the previous chapter) seems to also belong here. These inflections can semantically pluralize the subject, the object or the action; this pluralizing often includes a 'continuative' aspect; an additional type will also be cited in which pluralization includes a 'completive' meaning.

When the subject or object is pluralized, the corresponding pronoun must be plural too if possible (unless the semantic subject or object is a body part). Note that subject and object pluralizing is done in the examples only with R<sub>3</sub>- or -el- - -le-. Action pluralizing is done with -R<sub>2</sub>, R<sub>3</sub>-, or -f·m.

## .1. Plural subject (agent):

- tem#f.m 'lots of people picking' (#f.m 'pick, picking
   (fruit, leaves, etc.)')
- lilek 4:1ts 'a bunch playing cards' (lek 4:1ts 'one person playing cards (solitaire or patience)' (-leand Ai))
- possibly pelp6l 'get crowded out' (p6l 'get crowded')

  2. Plural subject (patient):
- x\well\_elx\well\_elx\sigma\formal{\text{off}} \text{off or lose balance with}
  both feet' (x\well\_elx\sigma\formal{\text{off}} \text{off or lose balance with}
  foot', x\well\delta\formal{\text{off}} \text{off off with foot')}
  s?\ell\_\delta\formal{\text{off}} \text{of people lost and presumed dead'}

- (s°f·k', one person lost and presumed dead', °f·k', 'Iost')
- meq'"méq'" 'squished, crushed (of round plural objects,
  like berries)' (méq'" 'squished, crushed (of round
  object)')
- ?á·leq; '' a lot rubbed off' (?fq; ''em 'smear, rub(bed)
   off, fade (of material)')
- e'elfe'eplex '(lots of) eyes being closed; wineberries' (both e' ~ c')(e'fe'eplex 'one eye being closed, closing one's eye')
- ?El(e)yámex<sup>y</sup> '(plural) good-looking' (as in ?El(e)yámex<sup>y</sup>
  slellé·lf 'good-looking women')(?Eyámex<sup>y</sup> '(sg.) goodlooking')
- possibly lec'lá·c'tel 'be of different colors, be variegated' (lé·c' 'be different')
- possibly st'elt'élq 'spotted with lots of spots' (st'é'la 'spotted')

## .3. Plural object:

- paqwpáqwet 'break it in pieces (with hands)' (paqwat

  break it in half with hands (apple, orange, etc.)')
  paqwpáqw' 'broken off in pieces (riverbank, etc.)'
  sag'ság'et 'chopping lots of wood' (ság'et 'chop wood',
- seq'ft 'split s-th', sisq' 'kindling')
- lemlémet 'fold things (like the laundry)(pl. obj.)'
  xweyxwiyém 'tell stories' (xwiyém 'tell a story')

#£leq'et 'put down several objects' (#£q'et 'put/lay
s-th down, put down one object')

#### .4. Plural action:

xwexwemxyeli.m 'running on and off' (xwemxyelem 'running')

For derivation of other examples in -f·m 'repeatedly', c'6c'ok'f·m 'jumping up and down, jumping along, jumping repeatedly', tètf·m 'hollering more than once, shouting repeatedly', t'6c'oxolf·m 'splitting roots unevenly', xwtiytf·m 'eddy water, to eddy upstream' (become upstream repeatedly), xwolk'wf·m 'an eddy' (nominal < petrified verb), xyc'f·meot 'repeatedly smell oneself stink', see lexical suffixes under -f·m 'repeatedly'.

Inflection by reduplication:

t'elt'6leq'Wels 'scratching repeatedly to get in'
(t'6leq'Wels 'scratching to get in')

t'att'6teq'Wetes 'it has scratched s-th up' (cp.

t'61eq'Wetes 'he scratched on s-th')

t'alt'alam 'continuing on singing (songs)'

k<sup>W</sup>émk<sup>W</sup>em 'thudding of footsteps on ground (person, horse, etc.)' (k<sup>W</sup>ém 'to thud (dull, earthen sound)')

h'61h'eleq' making continuous explosions or shooting

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or popping sounds' (h'6leq' 'to explode, make a
   pop or shot')
o'f.yo'ey 'always sickly' (q'aq'ey 'sick; dying')
±6m±emex<sup>W</sup> 'rainy (off and on)' (±6mex<sup>W</sup> 'to rain')
yélyelesem '(have) a steady toothache' (yélés 'tooth')
e'épe'eplex 'blinking' (e'éplex 'blink once, close
   eyes once')
qwelqwelem 'grumble', qwelqwel 'be rowdy', and
   qwelqwelá.yeel 'talk(ing) too much' (qwell'talk')
livliyem '(doing) lots of laughing' (livem 'to laugh')
lemlem& tes 'he kicked them around (shoes, for ex.)'
   (lemf.tes 'he kicked s-th')
k, Wack, Wec(meT) 'expect (s-o)' ("look repeatedly (for
   s-o)")
walwela.m 'echoing'
?&c?ac 'stuttering'
possibly qelqelf.leet 'get oneself dirty' (q61 'bad,
   dirty', Rz 'plural, repeatedly', -f.1 'go, get,
   become', -0et 'oneself')
.5. Plural > 'completive' (often translated by past
   participle + 'up')
xWetxWet 'torn up (in pieces)' (xWet 'torn (as of clo-
   thes, etc.)')
16kWlekW 'all broken up (of sticks, of bones (in mult-
```

iple breaks like in accident))' (16kW 'broken (of

chewed s-th hard')

q, welq, wel 'overripe' (q, wel 'ripe; cooked')

possibly pełpéł 'get crowded out' and t'elt'éleq' wetes

'it has scratched s-th up', both cited above (in

.1 and .4 respectively)

k'exWk'sxWtem 'badly beaten, really lost (a contest)'

In a few examples there is stress shifting which may be derivational but seems to play no consistent part in the pluralizing process. (Incidentally it seems that both yélyelesem and \*'61\*'eleq'\* have CVCVC roots and must have stressed R<sub>3</sub> since R<sub>2</sub> is suffixed to roots.)

### .6. Diminutivization:

A few examples have also turned up of diminutivized verbs, using  $R_{ij}$  as their inflection just as nominals do. The process is so much like pluralizing that the examples may as well be given here:

lilfom 'picking a little (bit)' (lifom 'pick, picking
 (fruit, leaves)')

qíqel 'be a little bad, be naughty' (q61 'be bad')
kwikwekwcé:m 'scream a little, squeal' (kwekwcé:m 'to
scream')

?i?exf0 'little baby lying down' (?exo0 'lie down',

?έ·χοθ 'lying down')
qiqelέ·m 'weak' (qelέ·m 'weak', presumably more so than
qiqelέ·m))
sx<sup>W</sup>ix<sup>W</sup>áx<sup>W</sup>θ' 'be stupid, be a little crazy' (sx<sup>W</sup>áx<sup>W</sup>θ'
 'be insane, be crazy')
xfxè·m 'to sob' (xè·m 'to weep, cry')
sesf·si 'scared a little' (sf·si '(be) scared', R<sub>5</sub>- or
a dissimilation from \*sisf·si)

 $q^{W}fq^{W}$ elèc 'to gossip' (little talk on the rump)

As with the pluralized verbs, the diminutive sometimes applies to the subject (?i?exf0), sometimes to the object ( $\pm$ i $\pm$ i·m), and most of the time to the action (all the rest of the examples, perhaps including  $\pm$ i $\pm$ i·m). There is more stress shifting here than in the pluralized examples since R<sub>4</sub>- is supposed to be stressed.

6.1.10. Internal Syntax of the Verb and Co-occurence of Verb Inflections. Verb inflections are prefixed, infixed and suffixed, and these processes are sometimes combined for one inflection. Where there is more than one prefix, more than one infix, or more than one suffix they can be seen to be added in particular sequences. Infixing processes are used for continuative (6.1.4), participles (6.1.5) and pluralized verbs (6.1.9) and include R, A, stress shift,

vowel metathesis, and -el- ~ -le-. It seems these processes occur in a certain order as processes, regardless of the inflections they are used for. From examples like 0'elf0'eplex" 'eyes being closed', \*iif'm 'picking a little', '?i'exf0 'little baby lying down', and so on, we can infer the order of these processes to be: first reduplication, then ablaut or vowel metathesis, then -el- ~ -le-, then stress shift. Examples from nominal inflection confirm this order.

The following prefixes are used in verb inflection: {he-} 'continuative',  $R_5$ - and  $R_8$ - 'continuative', s- and s- + R 'participle', we- 'subjunctive',  $R_z$ - 'plural', and  $R_{\mu}$ - 'diminutive'. There are few examples of any of these occuring together (like sx wix wa(.) x we, 'a little crazy, stupid'), but several things can be noted from what occurs and what does not. There are no examples of reduplication prefixed twice in the same word; there are no examples of participles prefixed with {hs-}; participles are all continuative semantically whether reduplicated or not, but if the participial R is continuative prefixed  $R_{\rm S}-$  or  $R_{\rm S}-,$  as it sometimes is, note that the participial s- always precedes it. Since the following pairs do not co-occur, {he-} and R-, {he-} and s-, R- and R-, the internal syntax of verb prefix inflections can be summed up as:

s- precedes R- ('diminutive', 'continuative', 'participial'), and we- 'subjunctive' precedes s- 'participial' or he- 'continuative' or R- ('continuative', 'participial', 'plural' or 'diminutive').

There are many more verb suffixes than prefixes and infixes, but their internal syntax can be described by charts after grouping them in the following sets: Subj. = pronoun sets 4.4, 4.8 (3rd person, 1st and 2nd persons pl.), 4.9a Obj. = pronoun set 4.5 Pass. = pronoun set 4.10 Trans. = control transitivizer in 6.1.2.1 (-(a)T.-1.-sT. -(a)xy,-meT,-(a)les) Intr. = intransitivizers in 6.1.2.2 (-em.-£.ls.-0et) Ben. = benefactive -elc in 6.1.3 Refl. = -lá·met and -(e)0et in 6.1.3 Recip. = -tel in 6.1.3Cont. =  $-R_0$  in 6.1.4 (the only continuative suffix) Ppl. = participle suffixes ->m (probably 'middle') and -tem in 6.1.5 Ppl. (Ra) = participle suffix -Ra in 6.1.5 Mid. = -em 'middle voice' in 6.1.6 Imper. = imperative suffixes in 6.1.7 (- $\pm\epsilon$ ,- $\epsilon$  $\pm\epsilon$ ,-(t) $\pm$ , -cexW.-cep.-cet.-awat - -ewat.-tqWe) Interrog. = -e - - £ - - £ as in 6.1.7

Past = -\frac{1}{1.e.} -\frac{1}{2} - -\frac{1}{2} - -\frac{1}{2} \text{ as in 6.1.8}

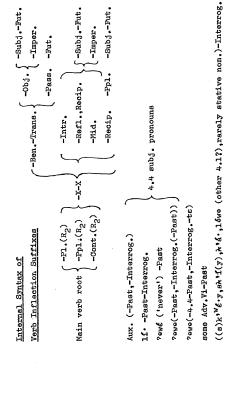
Fut. = -cc as in 6.1.8

Pl. = pluralizer -R<sub>2</sub> as in 6.1.9

X = lexical suffix

Aux. = ?f., lf., lsm, mf(.), ?6we

Adv.Vi = adverbial intransitive verbs



(A,B) = A or B is obligatory (A) = A is optional

(Here Cont. = any continuative affixes; Ppl. = any participle affixes; Sbjn. = Go-occurence of Verb Inflections Within the Main Verb Word.

•	Fut.											318		+
subjunctive affixes; Pl. = any plural affixes and the diminutive prefix; ? = unattested but probable; +A = +A and -everything else.)(notes on p.319).	Inter- rog.												+	ř
	Im- per.											1	1	+
	sbjn.										1	1	+	<b>~</b> +
	Voice (A,M,E)									+	+4 -M,P3		+	+44,M +P2
	Pp1.								+4 H	2+	1	1	+	+
	Cont.							€	+	+	ı	ı	+	#
	Re-						+	+	4+	<b>₹</b>	+	1	+	+
	R9-					ı	+	-3	+ <b>A</b>	<del>2</del> +	+	1	+	+
	Ben.				1	ı	+	ı	+	<b>~</b> +	+	1	+	<b>?</b> +
	Intr.			1	+	2+	+	+	<b>4</b>	+	+	+1cm	+	+
	Trens. Intr. Ben. II. cip. Gont, Ppl. (A.M.P) Spin, per. rog.		ا <sub>س</sub>	+	,	,	+	1	+	+	₹,		+	+
	Subj.	+	+Subj.	+	+Subj.	+Subj.	+	+Subj.	+	+	<b>ժ</b> լ	+Subj	+	+
subjur 3 = ur		Trans.	Intr.	Ben.	Refl.	Recip.	Cont.	Ppl.	Voice	Sbjn.	Imper.	Interrog.	Fut.6	Pl.

Notes to chart on preceding page:

- 3. + only if one considered -meT 'transitivizer' as -m 'intransitivizer' + -eT 'transitivizer (purposeful control)'.
  - 4. or +Subj. (2nd person sg./pl., 1st person pl.)
  - 5. but minus -1 and -(e)les
- 6. If past tense -1 were substituted in this row the row would read nearly as the row above it does (all entries minus except +Subj. in column one)(Past + Interrog. would be plus while Past + Pl. would be minus).

# 6.2. Types of Intransitive Verbs (Vi's).

6.2.1. Plain Vi. This type corresponds to the English intransitive verb. In Halkomelem there are several groups: unaffixed, intransitivized, and derived but not intransitivized.

Unaffixed: t'éq' 'it broke (rope, breath), to break. run out (of breath)', péq" 'break in two, split', yéq" 'burn', mog, w 'burst or pop (of balloon), smashed (of spherical object)'. ?á·ł 'get aboard, get in a canoe (or later: in a wagon, car, etc.)', k, wiy 'climb (tree or ladder) (k, Wiyeqel 'climb a rock or mountain'). mi ~ ?emi 'come'. ?£xee 'lie down'. xwiy 'wake, open (of plants)', θéx 'go out of sight, disappear'. ?fliys 'to dream', woq' 'drown', c'fyx 'to dry'. céla 'fall (through air), drop' (cp. hflém 'fall and tumble, tumble' and wec'sk' 'fall off, drop down'). łás 'to drift-net', p'ók" 'to float', łá'k' 'to fly'. g'ép 'gather', tés 'get near'. lehél 'play slahal'. These are plentiful; nearly one-fifth of the intransitive verbs appear to be of this type (for example. about 150 out of a list of 850 Vi's).

Intransitivized: See 6.1.2.2 for examples with -6·ls (~-els), 6.1.6 and 6.1.2.2 for examples with -em (~-m ~-6m ~-6·m ~-è·m ~-è·m), 6.1.3 for -(e)0et (possibly an intransitivizer) and 5.2.3 for -f·l ~-el 'go, come,

get. become (another possible intransitivizer). Many examples are given in these sections and include some derived intransitivized forms as well as underived ones. Derived but not intransitivized: sf.si 'to fear, be afraid, be scared' (R), x stiysqel 'to answer, reply' (-eqel), c'eq' 6.wel 'weave a fine-cedar-root basket' c'éq' 'poke, pierce, weave fine cedar roots'. -6'wel). t'(a)kwi-les 'choke on food' (-i-les), q'weyi-lexy 'dance' (-f.l. -ex"), kwf.mel 'get red, turn red' and me0'f.l 'get blue, turn blue' and 0etf.l 'go(ne) dark, get dark' (these three examples belong here unless -f.1 ~ -el is an intransitivizer), qá·qe 'drink' (R), wec'sh' 'fall off, drop down' (we-), h'(e)pf.1 'go down, go downstairs' (-f.1), lex blcc 'spit' (-elcc), e iq blcep 'split or chop firewood' (-61cep), łók, wxyel 'to trip (hooked on foot)' (-xyel), xwehiwel 'go upstream' (xwe-, -el), wi qes 'to yawn' (-es), xwexwaes 'to thunder' (-aes), teceeleexel 'cut on the arm' (-elf.xel), xyec'6.wes 'store away cance paddles'  $(-\delta \cdot was)$ . These verbs are also numerous: They have the same intransitive force as the unaffixed intransitives.

6.2:2. Adjectival Vi. Participles function as adjectival Vi's, and many examples have been given in 6.1.5. Other adjectival verbs are also found in good

numbers: some are unaffixed and some are derived (with lexical affixes, etc.), but both sets are used the same way syntactically and semantically. Adjectival verbs are stative ('be' + adjective); they can be inflected for subject, tense, etc., but only the participles can be inflected for aspect. Adjectival verbs can also precede nominals after a demonstrative article, just as English adjectives can; in such a case the 'be' is omitted. For example, mestex to ck for sukWa 'bring (or fetch) the brown sugar, give me the brown sugar', to hik w wotos mostiyow 'a big heavy person', qwaqwel 00 ?iya'mexy słe'li 'the pretty woman is talking', to h'i sya'ys 'the difficult work'. Comparatives and superlatives (except in a few cases like OfOo 'bigger') are formed syntactically; they are described in the syntax chapter. In a sample of 850 Vi's, 282 of them were adjectival (including participles). Here are some examples of non-participle adjectival verbs (from a list of about 125):

?éy 'be good', qél 'be bad, be dirty', hí·kw' 'be
big', ?exwf·l 'be small', qéx 'be many, lots, a lot
of', ±éqw' 'be wet', \*'éqt 'be long (in length)',
?é·yelexw' 'be alive', t'éyeq' 'be angry, mad', ?iyá·mexy'
~ ?eyá·mexy' 'be good-looking, pretty, handsome', k'wés
'be scalded, burned on skin', Ţéy\*' 'be cold (of a

thing)', q'Wel 'be dull (of an edge or point)', leq'&:} 'be in the way', p'sq' 'be white' (and the other color words listed under lexical prefix c'- ~ c-). xWe?fyweł ~ xwo?fywol 'be generous, kind-hearted', lséc' 'be half', k'f 'be difficult, hard', xWet(\*)es 'be heavy', wave - k'Wfor 'be hungry', 00%fot 'be true, it's true'. ?f(.)k, be lost', xf.ws 'be new, fresh', xyelá·k, be round'. xyelk, a·ls 'be spherical'. mekw 'be stout, thick (around)' (EB medw), 'syem 'be strong', qelé·m 'be weak'. h'eatá·mee' (á· ~ é·) 'be tall (of a person)', plé·t 'be thick', cgá·le 'be thirsty' (EB lqá·le), xéye' 'be unripe'. leq'é·t 'be wide', k' esces 'be burned on the hand', cl(e)ya mexy 'be (plural) good-looking', q'elx 'be unfamiliar, not known or recognized', h'sp 'be low, deep', leq' 'be level', tew£le 'be tilted', q'ay 'be dead, paralyzed' (also a plain verb 'to die'), lex wsf.si 'be always afraid', 0f00 'be larger, bigger', we?al 'be more'.

6.2.3. Prepositional Vi. There are a small number of verbs which express orientation toward nominals or pronouns, in a way similar to English prepositions. In Halkomelem they are intransitive verbs. They can have noun phrase objects or independent pronoun objects but are not inflected for object; when they are inflected for subject (which is rarely) they are translated

- 1. If 'at, to, in' (EB sometimes replaces this with lé; both may indicate (besides the gloss given) some displacement from the speaker or actor. Tait and Chehalis dialects also have 'f in place of lf, perhaps indicating no displacement from the speaker or actor; almost certainly lf and lé and 'f are historically < lf(') 'be there', lé(m) 'go(ing)(to)', and 'f(') 'be here', respectively.)
- 2. telf 'from, be from; than (with comparatives)' (related to lexical prefix tel-)
- 3. ±0% 'via, by way, through'
- 4.  $x^{W}$ el $\epsilon(m)$  'over to, as far as, towards, against, through (?), for (?)'
- 5. yeléw 'past, after'  $(-x^y \sim -T \text{ 'pass by s-th/s-o'})$

- 6. yewé · lmels 'before'
- 7. statis 'near, close, beside' (-T 'be near s-o')
- 8. sc'ec'é 'on top of, astride'
- 9. sq'á, sq'eq'á 'together, with' (-meT 'stay together with s-o', (q'e)q'á'0et 'mix/associate/go with s-o')
- 10. slivw 'inside (a container)'
- 11. sk<sup>W</sup>etéx<sup>W</sup> 'inside (a house, cave)' (k<sup>W</sup>téx<sup>W</sup>T 'let
  s-o in (a house)')
- 12. ste?& 'similar to, like' (Tait, Cheh. st'ɛ?& ~ st'&) (ste?&stex\* 'follow s-o, do like s-o')
- 13. sh'epá·lweł 'below, under, underneath; the underside'
- 14. scolsá·lwol 'over (in the air), above; the upper side'
- 15. sle?á·lweł 'on the other side, across; the other side'
- 16. sle?á·0el 'across'

Some examples of these verbs in action:

1. If to sk'opf'wel 'in the shirt', if to sqelx "élos 'in his throat', k'"écotos if k'es lélem 'he saw it in your house', li to sq'óp 'at the gathering', li k''o se'á mes 'in Victoria', li to 'elx "icol 'in the middle', le k'"iyoqel li to cícol 'he climbed up high (up a rock or mountain)', li to cá k' '(way) far away, in the distancs'; lo lá\*k' to má q' lé to Ogét 'the bird

- flew to the tree' (EB), le \(\frac{1}{2}\)ek'\state ma'\cdot \(\frac{1}{2}\)f tel sce\(\frac{1}{2}\)cse\(\frac{1}{2}\)sce\(\frac{1}{2}\)cs
- 2. Besides examples above and in 4.11; telf k, eq sq'ewqéyl k, els le 'îmex, qek'âlsu tés k, e e'ewêlf 'I walked from Scowkale to Soowahlie' (lit. "from the (distant) Scowkale that-I walked and-I-so got-to the (distant) Soowahlie"; both Scowkale and Soowahlie were villages on the Chilliwack River), le xee'étes te sq'émêl telf k'e'êlee 'he pushed the paddle (away) from me', lek tem telf te qiq'êwtx 'he was let go/set free/turned loose from jail, they let him go from jail', cel eiyt te swéq'el telf te séys te p'eq'élqel 'I made a blanket of/from the wool of the mountain goat'; hfk telf k'e spelwêl 'bigger than last year', yeléwel ê't telf k'é'eles 'he's worse than me', yeléwel k'êqt tel xéltel telf te' swé 'my pencil is longer than yours'
- 5. 1s ye-le?& k; We sq'éwlec 'he went via (by way of)
  Scowlitz' (Scowlitz was and is a village at the mouth
  of the Harrison River), cel ye-le?& k; We sq'éwlec 'I
  went via Scowlitz' (ye- is probably the lexical prefix
  'travelling by'), lí le?& k; We là 'Did he go through
  there?'

4. xWalf = xWalfm can be seen in the following examples (besides those in 4.11): le x Wel & (m) te Agassiz 'he got to Agassiz (instead of going all the way), he reached Agassiz (the speaker is at Agassiz)' (EB), lemélstex wes x' Bill to sc'émél x elém x' Bob 'Bill (absent) threw the paddle over to Bob (absent)'. 19 łá·k; w to má·q w wolém to sc'éx t 'the bird flew toward the branch', le 06k' xwelf to seemeamole 'she was pulled toward (influenced by) the Thompsons' (note s?améle 'Thompson Indian'), tiyéléstcex te? q'éwe welfm to t'amel 'lean your cane against (towards) the wall! (tiyélés-T 'lean s-th'), xWlém to mége 'through the snow! (as in driving through the snow on a sleigh), lác'e xwlém te sivém, des te léc'e xwlém ee sié·lí. ges to loc'e xwlem to sk'ik'eqet to k'elexw stotis to xy£1 'One for the master, and one for the dame, and one for the little boy that lives in the lane' (translation of "Baa Baa Black Sheep" by Alice Hunt of the Deming Halkomelem Workshop).

- 5. yeléw te syéyeq' 'past the log', yeléw  $(k^{5})^{w}$ e) syéyelèt  $k^{w}$ ses  $x^{w}$ e'f' 'after Sunday he came'
- 6. yew£lmels k'we sx£xelèt 'before Sunday', yew£lmels k''we 1910 'before 1910'; (also used as adverbial Vi or as conjunction (the rest of which are particles or demonstratives)); yew£lmels k''wels 1£(m) ?£'yel 'before

- I go away', wé·lx'cex' yewé·lmels k' sa wec'sh' 'throw it before you fall off!', lut q' ayel to s'aes yewé·lmels k' ses melqf. wsem 'her face is turning green (or yellow) before she faints'
- 7. Besides examples in 4.11: 10 w&·lx deside (or near)
  statis \* 0.00 the threw the paddle beside (or near)
  me'
- 8. sc'ec'é te yá'seq lí te (letém, sc'électel, sx"? £ yee) 'the hat is on (top of) the (table, chair, bed)', sc'ec'é te stiqíw 'on top of the horse, astride the horse' (cp. we-c'é 'get to a summit or top')
- 9. Besides examples in 4.11 (q.v.): 'fittel sq'eq'é te sq<sup>W</sup>emé'y 'he's eating with the dog' (other ways of using this root as Vt include: sq'ame@ax<sup>V</sup> 'with me' and q'ɛx<sup>V</sup>1·1eàx<sup>V</sup> 'with me' as in mftt q'ɛx<sup>V</sup>1·1eàx<sup>V</sup> 'come with me!' (q'é + Aɛ + -x<sup>V</sup>el + -1·1 + -T))
- 10. cel sli·w te k; wax e 'I'm inside a box', (EB) sli·w ?I te k wax e 'it's in the box', stem k; e sli·w ?I te sk; wa·wes 'what's in the pail?' (necessity for ?I is unknown)
- ll. lí sk<sup>w</sup>etéx<sup>w</sup> 'Is he inside?', sk<sup>w</sup>etéx<sup>w</sup> te lélem 'inside the house' (EB sk<sup>w</sup>etéx<sup>w</sup> lí te lélem)
- 12. ste?écet 'like we are; we are similar', ste?é
  te k<sup>w</sup>ešú 'like a pig', ste?écel te x<sup>y</sup>é:ysem 'I'm like
  the ant', ste?é te k<sup>w</sup>ešú te Doug 'Doug is like a pig'

13. cel sk'epá'lweł lí te q'eléc'eq<sup>w</sup>tel 'I'm under the umbrella' (incidentally, cp. sq'elác'eq<sup>w</sup>-cel 'I'm under an umbrella', sq'elác'eq<sup>w</sup> 'be under an umbrella' < q'eléc' 'rainshelter', -eq<sup>w</sup> 'on the top of the head', s- participial inflection), le łá'k', te má'q<sup>w</sup> sk'ep-á'lweł te sc'éx<sup>y</sup>t 'the bird flew under the branch'

14. le ±á·k, w te má·q scelsá·lwel te sc'£x, t 'the bird flew over the branch', lémcet scelsá·lwel te spélgel 'we're going over (above) the prairie'; but beside these EB also has le ±á·k, te má·q ?f tel scelsá·lwel 'the bird flew on top of me' which seems to show scelsá·lwel as a nominal.

15. cel sle?á·lweł te k<sup>y</sup>á· 'I'm on the other side of the car', lí k'<sup>w</sup>es sle?á·lweł te lélem 'on the other side of the house', sle?á·lwełs te k<sup>y</sup>á· te lepél 'the shovel is on the other side of the car', sle?á·lwełs te Bill 'behind Bill (if Bill is facing)(lit. on the other side of Bill)'

16. lémest sle?á·001 to spółxol 'we're going across the prairie', col sle?á·001 to stá·lo 'I'm across the river' (śle?álwoł can't be used with 'river')

At the same time, many of the prepositions used with English verbs are included semantically within Halkomelem transitives or are not expressed at all.

For example: kywcet 'look at s-th', ?celexw' 'hear

about s-th', léc'là mes to léc'tel 'you'll get cut by
the knife', le c'eh smétes to q'elégel 'he jumped over
the fence' (lit. 'he jumped the fence'), c'eh smedár se
'he jumped over me', le wec'éh' to sk'fk'eqel lf to
sx t'êl 'the child dropped off a bridge' (wec'éh'
'drop off, fall off'), k' aq eéx s to lepè'l 'he
hit me with a shovel', lém 'go(ing), go(ing) to (somewhere, or to do s-th)':

6.2.4. Adverbial Vi. These words modify the verb and usually directly precede or follow the verb. They are glossed as adverbs or statives in English but are verbs since they are inflected for subject and tense like Vi's (though not for continuative aspect). About 50 of them turned up in a sample of 850 Vi's. As some English prepositions are semantically included within the Halkomelem plain verbs, so are some English adverbs (usually in verbs with middle voice); yak, wem kweel kyá. 'my car broke down', q'wem 'come out (at the root)', xws0tflem 'to cloud up', 2fx00 'lie down', legem 'dive, dive in', xlet 'beat s-o up'. Control transitivizers also communicate somewhat adverbial ideas like 'purposely', and 'accidentally'. But none of these are syntactically adverbial in Halkomelem. Here are some of the adverbial Vi's found:

- 1. c'&c'el '(be) very' (often plus -ew intensifier)
- 2. EB: kWeltu '(be) very' (also has c'éc'el)
- 3. γέθ τοι '(be) really'
- 4. yew&.l '(be) first'
- 5. liyá q t '(be) last, after, behind'
- 6. ?shiw '(be) upstream' (cp. x Wehiwel '(go) upstream')
- 7. woq' \* £ylem 'downstream' (x \* ewq' \* £ylem '(go) downstream')(woq' \* £ylem may not belong here because
  it may be mistranslated for 'go downstream' since
  -£yl probably < -1:1 'go, come, get' and since
  there appears to be a continuative, hewq' \* elem
  'going downstream')
- 8. tellás 'from downriver'
- 9. słóq'qel 'way upriver'
- 10. tfytexel 'way upriver', teltfyt 'from upriver'
- 12. cá·leq 'away from the river, toward the backwoods'
- 13. cá·m 'away from the water'
- 14. cá·k<sup>W</sup> '(be) far, far off, far away', telcá·k<sup>W</sup> 'from far away'
- 15. t'á(·)k' '(go?) home, homeward' (t'ék'stex' 'take s-o home')
- 16. \* eléx '(be) at home; stop'
- 17. c'imel '(be) almost, near'

- 18. x e·lq 'almost; almost die' ~ x e·lqi 'almost'
- 19. sx<sup>₩</sup>£•ye 'in the middle or center'
- 20. numerals lec'éx 'once', 0emé 'twice', etc.
- 21. qelét 'again'
- 22. yel 'just, now'
- 23. qé·ys 'lately, recently'
- 24. tlagé ys 'now (this instant), right now'
- 25. ?flulay 'the last time' (also conjunction)
- 26. téx ~ téx (be) later, in a while
- 27. ±6q'0± 'used to' (< ±6q' 'sometimes' + -0± 'past')
- 28. hf.0 'a long time'
- 29. welf.  $\Theta(\Rightarrow)$  'a long time ago' (wel-hf.  $\Theta-\Rightarrow$ )(~(EB) k, welf.  $\Theta$  and (CT, AC) k,  $\Theta$  elf.  $\Theta$
- 30. celéqel 'yesterday'
- 31. tlawfy61 'today'
- 32. wéyələs 'tomorrow'
- 33. léc (AC) ~ (Cheh.) ± q \* ~ (Cheh.) ± q \* 'sometimes'
- 34. (we)temtέmes(cε) 'someday; whenever'
- 35. wetésescε k, we/k s tés 'until (?)'
- 36. x el 'still, yet'
- 37. we?al(-ew) 'too (overly)'
- 38. wiyá0 'always'
- 39. weláy 'only, just'
- 40. yáswe 'possibly, perhaps, might, maybe'
- 41. 'el 'just, simply' (Cheh. 'al 'a -a (most common))

- 42. wel 'already'
- 43. 00 % t 'for sure, truly; it's true' (also adjectival)
- 44. yewé 'along, also'
- 45. sq'eq'á 'along, together'
- 46. tus? Ey?el 'softly, quietly' (probably compounded)
- 47. s(0)16 'tightly, tight' (also adjectival)
- 48; tx wem 'early' (adjectival too)(cp. ? ayem 'late')
- 49. x om 'fast; hurry' (also plain verb)
- 50. ?£h'qel '(go) outside' (probably belongs elsewhere)
- 51. yeléwel 'just past, over, more'
- 52. -qWar 'how \_\_\_\_!, really \_\_\_\_!
- It is unclear whether the negative verbs belong here
- or with auxiliaries; the negative verbs include:
- 53. ?6we '(be) not, no'
- 54. ?aw& 'if not' ~ 'isn't?, doesn't?'
- 55: ?ew&t 'never'
- 56. x waw '(be) not yet'

Examples of adverbial Vi's in action (the following list is thorough because it will be used for the syntax chapter as well):

1. (Chill.) c'£c'el k'<sup>w</sup>ák'<sup>w</sup>es tlàw£y£l ~ (Cheh.)(EB) c'£c'el-ew k'<sup>w</sup>ák'<sup>w</sup>es tlàw£y£l (both mean) 'It's really hot today., It's very hot today.', (EB) c'£c'el-ew seewát 'very smart' (the 0 is idiolectal for a /c/ in this word; other speakers of upriver dialects have

- scewát or scewá\*t '(be) smart, know how to'), (AC)
  c'éc'elcel méq' 'I'm very full.'
- 2. (Cheh.) kwettu ctéwél te s?fe'ems 'her dress is really bright', (Cheh.) kwettu (Gé't, xwem, s?femet, hf'kw') 'very (dark, fast, lazy, big)'
- 3. ?60'elcx (x "6m, ?áyem) 'you're really (fast, slow)', ?60'elcs wehi0 k' ss hák "ex" 'you'll use it a really long time'
- 4. ses yewêl 'he's to be first', lêwe yewêl 'you're the first', lêm yewê·l ~ ls yewê·l 'go ahead, (go first)'
- 5. ?6?sl00 łiyáqWt 'I'm last', y0łiyá·qWt to Bill
  'Bill is last, Bill is behind', y0łiyá·qWt k' wos xWo?fo'
  'he arrived last'
- 6. lémcel k, we rehiw 'I'm going upriver' (nominal), mecep xwehi.wel 'you people come upstream', lémecex xwehiwel 'are you going upstream?', le xwehiwel yeéé 'those people are going upstream', lecel (xwehiwel, xwewqiweylem) 'I'm going (upstream, downstream)', xwewqiweylem) 'I'm going (upstream, downstream)', xwaxweq'wet xwehiwel 'poling (a cance) upstream'
  11. le tá:1 'he went down to the river or away from shore', xwemie tá:1 'hurry down to the river!', lém k, we cúcu 'go toward the river or away from the shore' (nominal)
- 12. Contrary to the consistently adverbial gloss of

le yéq k, we cá·leg the backwoods are burnt' 13. lacel cárm 'I'm going away from the water', lacx" cá·m ce téscex ?à te smé·lt 'you go away from the water till you (just) get to the mountain 14. lí· cá·kw 'Is it far?', lí k³we s²éx³q qe ?éwe ?'s ca'.k "it's outside but not far' 15. lscel/lemcel t'á·k' 'I'm going home'. lsł t'á·k' 'go home!' (cp. let ?f.yel 'go away!') 16. lf h'eléx (kweel mèel, sel tèel) 'Is your (father, mother) home? 17. wel c'imel k'ek' el 'it's nearly going out (of a fire)', wec'imeles to Christmas 'when it's nearly Christmas 1 18. xwé·loi tás tə kyá· 'he almost got hit by a car'. xwé·lqcel líl lém 'I almost went', xwé·lqcexw lém, 'éth 'you almost went, didn't you?', xw6.lqcel 'I almost died', xwé·lqi yéqw 'nearly burned', xwé·lqi ?ú·k,w (EB)(AC substitutes ?6·k, ") 'nearly empty, nearly run out', x w f.lqi loc' 'nearly full (of a container)'

20. lec'éx<sup>w</sup> ses yáys 'he only worked once', łx<sup>w</sup>é·ł ses xéyeeàx<sup>y</sup>es 'three times he hit me', xeelé·ł ses xéyeeàx<sup>y</sup>es 'four times he hit me', (EB) cel xè·m lec'éx<sup>w</sup> - lec'éx<sup>w</sup> k³<sup>w</sup>elsé xè·m 'I cried once'

21. ?ewéte siéq elex wetemtémesce ke es estelcet gelét

the word in isolation I only have examples as nominals:

'No-one knows when we'll eat again.'

22. ysł s?es méq'etes 'he just swallowed it', ysł s?es
técel 'now he comes', ysł s?es q'wél 'they're just
ripe', ysł s?es le pf'ltes te spf'ls 'he's just gone
to plant his crop', ysłcel xwe?f. 'I just arrived',
weystłl ses efyt (EB) 'I just started to make it',
ysłłl ses c'q'wó.weł 'I started to make a basket' (EB),
ysłł ses c'q'wó.weł 'she started to make a basket' (EB)
(the nature of EB's (we)ysłł 'start to, begin' is unclear; her use of ses in 1st person seems odd also as
s?es ~ ses serves elsewhere as nominalizer + 3rd person possessive for subordinate clauses--see Chapters
7 and 9)

- 23. qf·ys le q'áy k<sup>w</sup>eel sf·le 'my grandfather just died recently/lately', qf·ys me x<sup>w</sup>e?f· 'recently/just got here', qf·ysà 'just now' (EB) as in qf·ysà le c'eq'<sup>w</sup>f(·)weł 'he just now made a basket'
  24. cet ?f·łtel tlaqf·ys te Bill qss ts?f?sles 'Bill
- 24. cet 71. trage. ys to bill des terereles bill and I are eating right now!
- 25. ?flulay k, weelam 'the last time I saw you' (EB, whose -cel wel tends to > -u2)
- 26.  $t6x^{W_{CE}}(x^{W_{C}}-x^{W})$  'it will be in a while, later on, after a while',  $t6x^{W_{C}}$ colcs  $k^{1W_{C}}$ colamb 'I'll see you later, I'll see you in a while'
- 27. ±6q°e± xét°e yé x<sup>w</sup>èlmèx<sup>w</sup> 'the (Indian) people used

to say', ±6q'e± wiyá0 c'f.ye± y6 x\*0lm0x\* k, \*u±f0e±
'the people used to pray all the time, long ago' (EB)
28. ?6we hf0es 'soon, not long', hf0 k, \*es k\*el6t
'you'll have it a long time', (k\*s) hf0esc k, \*es
hák\*ex\* 'you'll use it a long time', we± ?iyálem k, \*es
x\*f(y)x\*yet -- we± ?álew hf0 k\*s ?ftets (?álew sic for
we?ál-ew) 'it's alright for you to wake him up -- he's
already slept too long', ?6we l£mes hf0 k\*s les
leq'£l6q'el 'he's not going to be long on his travels',
we± hf0 k\*ses mfq' 'he was underwater a long time',
we± hf0e ye me q'6p 'the gathering lasted a long time',
we±f0e k, \*es k\*el£t 'he'll have it a long time', ±f0
lfs s±6q'el·ex\* 'she knew all along (long ago?)',
tf0 lfx\* s±6q'el·ex\* lfs ?ɛl6cs k\*eel l£l6m 'you knew
all along where my house was'

- 29. see example in 27.
- 30. cel lém celéqelel 'I went yesterday', ?flcel lí  $k'^{W}$ e celéqelel 'I was there yesterday'
- 31. lémcel tlàwéyél 'I'm going today', l sq<sup>W</sup>élewel k<sup>W</sup>s mes ±émex<sup>W</sup> tlàwéyél 'I think it's going to rain today' 32. lémcel wéyeles 'I'll go tomorrow', ?é±telcex<sup>W</sup>cs wéyélés 'you'll eat tomorrow' (wéyélés ~ wéyeles), ?é±telce yiéé wéyeles 'they (those people) will eat tomorrow'
- 33. léc k' es siélis, léc k' es swiyeges 'sometimes

it's a woman, sometimes it's a man' (AC), liq'cel lég'cel 'sometimes I do' (EB), lég' st'é 'Sometimes.. Sometimes yes: (answer to a question)' (EB). (RM of Sardis: 16q' 'yes' (~ ?£.?ɛ 'yes') but no 16q' 'sometimes') 34. wetemtémesce x ewétesce k es k eclex (x ewétesce may be sic for wewftesce) 'someday somebody will see it' (also used as conjunction in ex. 21 above) 36. lí x wel ?f.yelex "Is he still alive?'. le x el xéve, 'they're still unripe', xwel sc'ec'é te stiqíw 'he's still astride/on top of the horse'. ?u x wel hiveg 'it's still burning' (EB) 37. wə?álwə-l sk'f(y)-l siyé.yə 'I like my friend a lot'. ?álewe lápxwem '(making) too much noise', ?álewe x wotes k'esu mig' it was too heavy and it sank'. 'swe ?fs ?álewe k, Wák, Wes 'lukewarm, it's not too hot'. wə?álwə tsá·s túk'a k'asésu sg'əq'ámətəs 0ə stá·les 'he felt so poorly that he stayed with his wife', warálwa qéx 'too much'. warálwa qéx ta słéx detces 'an awful lot of (lit. too much) spit', wə?á·ləw qéx te sc'ále 'too many leaves', we'alewe leq" 'too wet' (EB prefers ?álewe. AC prefers we?ál(e)we) 38. wiyá0 k, wes téx etcs to siyálex the old man is always spitting', wiyá0 k'Wels su mémelolexW'I'm

always forgetting', wiyá0 k' wels su mélclex "I always

forget',  $k^{9W}$ e wiyá $\theta$ (cs) ?à ~  $k^{9W}$ e hélémcs ?à 'forever' (a nominal)

39. weláy (tε²έ²ειθε, tειέψε, τάλ³à, tεłlímeł, tεłw6lep) 'just (me, you, him, us, you folks)'

40. yáswe \*'ás te mè·ls 'maybe it's his father',
yáswecel líl welè·m 'I might go', yáswecel x<sup>W</sup>é·lq
('e li (?)) melqí·wsem ~ yáswe x<sup>W</sup>é·lqcel melqí·wsem
'I guess I nearly fainted', yáswe 'ê 'maybe yes' (EB)
41. cel x<sup>W</sup>lɛlé· 'el 'I just listened', we'?í·mex<sup>Y</sup> 'el
qe (\*'asésu, le) hí·qsel 'He was just walking and he
dropped dead.', seehí@et-cx<sup>W</sup>-à 'just you be careful!'
(EB, who has -à frequently, see 22, 23 and 46 also in
this section)

42. lfcxw wet réttel 'Have you already eaten?', cel kwé wet (me xè·m, lém) 'I began to (cry, go)', wet k·6k'wel te híyeqw (EB) 'the fire's (already) gone out', li wet le ré·yel 'has he gone away?', lut mee'i'l 'they're gone blue' (lut < luwt < le wet), lut c'eté·m tel mimele 'my baby's already (been) crawling', lut (c'é·yxw, slic') 'it's (already)(dry, full)', (EB has rut frequently for wet or lut, and cuwt for cel wet as in rut lê·m 'he's already gone' and cuwt heyáeàmò 'I (already) warned you'; there are frequent examples; it is too early to tell if this is true for Cheh. as a dialect.)(see also examples 17, 28 and 43).

43. cel 6e?f\*t słóq'el·ex\* k\*ses weł lèm 'I know for sure he's gone', c'éc'el wel 6e?f\*t s'ú·met 'he's really truly lazy!' (wel 6e?f\*t 'it's really true', c'éc'el wel 6e?f\*t 'it's really true!')('6we lis 6e?f\*t 'it's not true')

44. lscel yewé 'I'm going along', sh'í k' els le yewé
'I want to go along', wéce lsméi yewé 'Can I go along?,
Will I go along?'

45. lfcx le y(e)sq'eq'é 'Did you go together?'

46. 'ficex tus'éy'èl k' s 'fi léyem 'you were laughing softly', tus'éy'èl k' s me xee'éeàx yoù push me softly', le we'éy 'à k' sel méle 'my child is fine', lfcx we'éy 'el (Chill.) - lfcx we'éy 'à - lfcx we'éyà (Cheh.) 'how are you?, (lit. 'are you going gently/softly?', tus'éycex 'àl 'go gently!, go slowly!', tus'éycex 'you be careful', tus'éycel 'I'm careful', cel tus'éyà 'I was careful'

47. a'éyset k' s selé f selé k' s q'éyset 'tie it

47. q'éyset k''es selé <sup>f</sup> selé k''es q'éyset 'tie it tightly'

48. me tx wem x we?f. '(he) got here early', me tx wem q, well to ?elfle 'the salmonberries are ripe early' (cp. (tu) ?á·yem kws mes q, well to ?elfle 'the salmonberries are ripe late')

49.  $x^w$ ém ( $k^{w}$ els,  $k^{w}$ es,  $k^w$ ses) me ?£·yelex $^w$ '(I, you, he) got well fast'

50. let ?&h'qel 'go outside!', le ?&h'qel te sqwemer 'the dog went outside', wel&mex ?&h'qel 'when you go outside'

51. yeléwel lás telí \*'é'eles 'he's fatter than me', cel yeléwel lás telí \*'eléwe 'I'm fatter than you', yeléwel xéy\*, tlàwéyél telí k'\*e celéqe±(e±) 'today is colder than yesterday', yeléwel qél 'worse', yeléwel \*'éqt tel \*éltel telí te? swe 'my pencil is longer than yours'

52. yú·wq<sup>w</sup>±e ~ ?£yq<sup>w</sup>±e 'how beautiful!, really beautiful!', yú·wq<sup>w</sup>±e te? q<sup>w</sup>±íyx<sup>y</sup>el 'you have really beautiful shoes!' (yú·w 'beautiful! (said while admiring s-th)')

Several things should be noted before concluding with examples of negative verbs. Several of these adverbial Vi's are unstressed and could be particles functioning as adverbial Vi's since I have no examples of them being inflected (k<sup>W</sup>ełtu, weł, ysł, x<sup>W</sup>el, ?el). With others the Vi either begins in we-'subjunctive' ((we)temtémedce), wetésesce k<sup>W</sup>s tés) or in an unexplained we- (we?álewe ~ we?álewe ~ ?álewe, weláy, wiyáe (could be //weyáe//), weł, wełf(eel)). There is also an unexplained unstressed particle, tu, which may well be adverbial. Some of the listed adverbial Vi's have not been elicited in sentences yet but seem suspiciously adverbial in translation.

Negative constructions will be dealt with in the syntax chapter, and negative verb inflection has been covered in the pronoun chapter, but a few examples of each of the negative verbs are given here to show why they might be considered adverbial Vi's (they modify the verb, occur adjacent to the verb or verb auxiliary, their inflection is limited with no continuative or object inflection allowed, etc.).

53, ?6wecel lémèl 'I don't go, I won't go'

? we limes 'he/she/it doesn't/won't go'

'éwe sc'eléx emes 'he's not a spirit dancer'

% flsθaxy 'you don't like me'

cel méytale k' wes ? éwep liyémelép 'I helped you folks not to laugh'

54. ?ew& lfs y60estalam 'Weren't you folks told?, Didn't they tell you folks?'

?ew& ?s sk'iyes k'Wes k'WeclexWcet 'Don't you want us to see it?' (sk'iyes sic for sk'i)

wécs lémèl yewé 'Won't I go along?'

?ew&s lis-l sk'i 'if I don't want it'

?ew&s lis satis ?ew&yex\* (?) ?áx\*eseáx\*es 'If he doesn't want it, will he give it to me?'

?ewés lis (?ε) sh'fyelep lacel k<sup>W</sup>ú·t 'If you folks don't
went it. I'll take it.'

55. ?6wəcəl $\pm$  q wéls $\theta$ àx 'I don't/I never speak to you'

?&wel le k, wellen 'I wasn't seen'
?&welcel k, we'y 'I'm never hungry'
?&wel xe'm 'he never cries'
?ewe'lcel 1f'l 1f 'I was never there'
?ewe'lcel sk, 'fk, eqelel 'I wasn't (ever) a child'
56. x wewecx ?f. x x x e siya.lex e 'You're not old yet.,
You haven't yet become old.'
x wewecx 'f. x tatela.met 'You don't understand yet.'
x wewe ?fs meq' 'He's not yet full (of food).'
x wewe ?f. s meq' 'They're not ripe (yet).'

6.2.5. Interrogative Vi. There are 14 or 15 of these verbs (not counting lexically suffixed versions of k, wi-1 (there are eight) and selci m (there are two or three)). They fall into a separate class mainly because they are all interrogative. All are mainly sentence-initial (except sentence-final oft tagquestion'), and some are only attested sentence-initially (h'ak selci ms. lí. lávéx<sup>W</sup>ε). When sentence-initial they can be followed by subject pronouns and future tense (except layex and the two words for 'why?'). A few can also occur after preposed pronouns or auxiliary + pronoun. None can be inflected for continuative or passive of course, but some can be inflected for subjunctive and used as relative interrogatives (tel. oce 'where s-o is from',

xweck\*l 'where s-o is going', xweck\*wel 'where s-o is headed for', ?slécs 'where s-o is', tewft 'who s-o is', stém 'what s-th is', and possibly others; the glosses just given are those used when the words are used as relative pronouns; otherwise they have the interrogative glosses listed below).

The verbal status of interrogative Vi's is further borne out by their nearly exclusive occurrence before demonstrative articles (which occur before nominals or which nominalize verbal constructions that follow). Exceptions to this occurrence before articles include the following: temtém, láyéxwe, and selci m attested before subjunctive verbs; 1f before declarative verbs; ?slécs once before adverbial Vi wéyeles 'tomorrow'; and tewét before nominals in constructions like 'what man?', 'whose dog?'). A fuller and more definitive treatment will be found in the syntax chapter, but the above give the semantic and syntactic reasons for this class of verbs being set up. The interrogative verbs found so far are:

- 1. lf 'am/is/are \_\_?, do/does \_\_?' (sometimes inflected with interrogative -ə)
- 2. selcf·m 'how?, how is it?' (also affixed:
   selcf·mamexy 'how does it look?, what does it look
   like?, what color is it?', selcf·mélégep 'how does

- it smell?')
- 3. k'"f:1 'how many?, how much?' (also affixed:
   k'"f:les 'how much money?, how many dollars?',
   k'"f12 'how many people?', k'"f12:p' 'how many
   trees?', k'"el61 'how many times?', k'"ilówel 'how
   many cances?', k'"ilówes 'how many paddles?', te
   sk'"f(:)ls (nominal) 'the hour', (Tait) k'"f1tx"
   'how many houses?')
- 4. stem 'what?, what is it?'
- 5. x \*\*e?f\*t or x \*\*e?fyet 'what is s-o doing?, what's happening to/with s-o?, what's doing with s-o?; what is s-o saying?'
- 6. temtém 'when?, when is it?'
- 7. Paláca (EB of Cheh. usually has láca) 'where?, where is it?'
- 8. xWecf·l xWcf·l xWcf·l 'where is s-o going (leaving for)?, which way did s-o go?'
- x<sup>w</sup>ecák<sup>w</sup>el ~ x<sup>w</sup>cák<sup>w</sup>el 'where is s-o going to (destined for)?'
- 10. tel·éce tel'eléce 'from where?, where is s-o from?'
- 11. tewét 'who?, who is it?' (used also in 'what's your name?' and 'what man is it?')
- 12. h'ak wselci ms 'why?, why is it?, how come?'
- 13. x<sup>W</sup>?ft 'why?, why is it?' (can't be used as an independent utterance unlike #12)

- 14. láy6x ve 'does one have to?, do I have to?' (a semantically reflexive interrogative, this verb has an impersonal subject 'one' which can also refer to the speaker, 'I')
- 15. ?6tl (usually [?6k]) 'tag-question' (always final in sentence)

Here are some examples of these interrogative verbs in sentences:

- 1. licx yayes 'Are you working?', lice sp'sp'&k"
  'Will it float?', li wel lèm 'Is he/Are they gone?',
  liye ti 'Is it over there?'
- 2. (1e) selof m k'ws le Ofyt 'How did you make it?', selof mcs we-mf.-t 'eméstex' 'How should we bring it?', selof m k's hies qe (ysł s'es me x''s syémyem, k'el óx''es te méles) 'How long before she (came to be(come) pregnant, got her child)?', lscex' selof m welémex' t'á k''
- 5. k, "f:1 tr (sk, "f:lmex", sci.yr) 'How many (black-berries, strawberries) do you have?', k, "f:1 (s0'áq"i, músmes, swf:yel) 'how many (fish, cous, days)?', ?ecx" wel k, "f:1 mfqr 'How old are you? (lit. "You were already how many fallen snows?")', wel k, "f:1 syilálem k, "ss yáyes 'How many years have you been working?', tés te sk, "f:1s 'What time is it?' ("It's gotten up to what hour?")

4. stem to 06 'What's that (visible, present)?'. stem te ?f.x (kWelf.t, 0f.yt) 'What is it you're (holding, making)?', stem to li ti c'ic'esem 'What is that growing?', stém k'We s0'áqWi ? sxy olce 'What kind of fish did you catch (is your catch)?'. stem to sq well qwel 'What's your news?'. stem k'We ?ixW t'st'iyeq'emet ~ stem k, We t'st'iyeq'emetex "What are you mad at?" 5. xwe?i.tcexw ~ cexw xwe?f.t 'What are you doing?'. ?f.+cex w xwe?i.t 'What were you doing?', xwe?i.tcep - csp xwe?f.t 'What are you folks doing/saying?' 6. temtémos welémex t'ák, When are you going home?'. temtém k' Es le Ofyt 'When did you make it?', temtém k, wes lêm 'When are you going?', temtêm k, wes ? 6x el If to switce 'When do you "pull" at Cultus Lake?' ("pull" is a popular term for 'to paddle in canceracing', '6xy el is also the normal word 'to paddle') 7. Paláca k' Was le Ofyt 'Where did you make it?'. le ?Elecs 00 sieli 'Where is the woman?'. ?Elecscox cs w&.yeles 'Where are you going to be tomorrow?, Where will you be tomorrow?'. 'slocs tel lam 'Where's my liquor?', cax velece 'Where are you?' 8. xW(e)cf.lcel 'Where am I going?', xWcf.l ?f.ltel 'Where/Which way are they going?'. le xwc2.1 'Where is he going?', xwecf.lcexw 'Where are you going?' 9. xwcákwelcexw 'Where are you going to?', ?ecxw

ve-xwcákwel 'Where are you headed for?', 'ecxw ysł xwcakwel 'Where are you going now (this time)?' 10. tel?slecs tuk'à (CT) 'Where is he from?', (subjunctive example, EB) cuł łq'élex we'is tel'elécs (" tel.ecs) 'I know (already) where he came from.' 11. lowe (te)wet - tewetcex W 'Who are you?'. tewet ts(?) skwixy (some prefer stem to skwixy) 'What's your name?' (Chill. ts, Cheh. + Tait ts?), tewet te swiyeqe 'Who is the man?', tewat swiyeqe kwee 'ix' sé·wq't 'What man are you looking for?', wet k; we le yéesseàmè 'Who told you?', tewét k'We le yéq welcep 'Who lit the fire?', tawét k' a le léc'làme 'Who cut you making the canoe for?', tewét k, we k, fils k s léms 'Who wants to go?', tawat sqwama'y 'Whose dog?' 12. A'ak selci ms k' ss le eiyt 'why did you make it?'. \*\*akwsəlcf.ms k, ws le ?ewestálx k, ws k, wéclex cet 'Why is it you don't let us see it (lit. "deny us to")?', h'ak selcions k' ss 'swe 'iop lem telwelep 'Why didn't you folks go?' 13. x wift ki was fowe lix lem 'Why didn't you go?'.  $x^{W}e^{\gamma}$ ít k' $^{W}$ ss 'éweł ( $q^{W}$ élseàx $^{Y}$ , lèm) 'Why don't you (ever)(speak to me, go)?'. xw?ft kwses xtf te ef 'Why

did he do that?'. x w?it k w why (do you)?, What for? (reply to an assertion). cexw xw?ft ?ese xté.stexw

te  $\Theta \mathcal{E}$  'What did you do that for?, Why did you do that?' (?ese is a variant of  $k^W ses$ )

14. láyóx we (xéws-es kw kyá.s, c-tíqíw-es) 'Does one (or Do I) have to have (a new car, a horse)?', láyóx we xyixyq'ém-es 'Does she have to have her mouth hanging open?', láyóx e p'ap'eq' m-es kws sóx e 'Does one have to have foamy urine? (from drinking beer' 15. ?éwecx 'líx' \*'élk'elmet, ?étt 'You never get used to it, do you?', xwé·lqcex lém, ?étt 'You almost went, didn't you?'

16. Subjunctive (relative pronoun-ized) examples from EB of Cheh.:

cut tq'flex" (westémes, wetewétes, we'is lécs, wex"cé·les, we'is tel·écs) 'I (already) know (what it is, who it is, where it is, where he's going, where he came from).', cut tq'flex" (wetewétes k; "e xtéstex" te eé, westémes k; "e le k"ú·tes)'I know (who did it, what he took).', 'ewéte sx"elis wex"ecé·lél 'no matter where(ever) I go', welix" x"ecéx"el 'wherever you're going'.

Note: some of the interrogative Vi's are also inflected and used as indefinite pronouns: tewstesà 'anybody', etc. (see nominal chapter).

6.2.6. Personal Pronoun Vi. This set includes pronouns of sets 4.1 and 4.2. Nothing more needs to be added here to the discussion + examples of Chapter 4.

6.2.7. Demonstrative Vi. This set includes ?f.

'be here' and lf. 'be there', and may also include
their derivatives, xwe?f. 'come to be here, come here,
get here, arrive' and xwelf. 'go there, get there'.

?f. and lf. are also used as prepositional Vi's and
auxiliary Vi's; but while they seem related historically and semantically, they nevertheless are three
distinct usages with distinct syntactic features and
glosses. It seems best at present to consider them
separately.

As demonstrative Vi's, 'f' and lf' can be inflected for subject, future tense, and subjunctive mood; past and interrogative suffixes must be attached to a preceding auxiliary; no continuative, imperative, participle, passive or pluralizing inflection is possible with these verbs. The reason 'f' and lf' form a special class of demonstrative Vi's, is that in addition to their demonstrative glosses they can precede and combine with demonstratives unlike other verbs.

(xwe'f' and xwelf' cannot do this but do have demonstrative elements 'here' and 'there' in their glosses.)

Some examples will illustrate:
cel 'f' - 'f' cel 'I'm here', cel lf' - 'lf'cel 'I'm there'
'f':cel 'f' 'I was here', 'f':cel lf' 'I was there',
'f': 'he/she/it was here, they were here'

if ?f. kWee me.l 'Is your father here?'

- we'f'celcs '6 k' we là qe x we'f'cex wc 'I'll stay (or be) right here till you get here.', we'f'celcs '6 k' we là qe téscs to sléc'es 'I'll be here till one o'clock.' (function of we-unclear)
- cel ?f. k, we là 'I'm here' (?f. k, we là 'here, this place' (là 'this') is so frequent as a unit that it is pronounced and regarded as one word, and I have usually written it ?f.k, welà), lfye ?f.k, welà 'Is it here?, Is he/she here?', le ?f.k, welà 'He's/ She's here., etc.'
- cel 2f tf 'I'm over here', cel lf tf 'I'm over there',
- cel ?f. ts lélém 'I'm here at your house.', le ?f. ts lélém 'He's here at your house.', le lf. ts lélém 'He's there at your house.' (The last three examples apparently show that lí 'at' is sometimes omitted after lf. 'there' or ?f. 'here'.)
- le xwe?f. 'he arrived, got here', ?ewéte kapú kwses xwe?f. 'He came without a coat.', %'ács Bill k'we méyeàmè wexwe?f.s 'It will be Bill that helps me when he gets here.', le xwlf. te léléms 'they got to their house'.
- 6.2.8. Auxiliary Vi. This group includes: me f mf '(come to)' (< ?emf ~ mf 'come'), le 'go, go to, going to' (< l£m ~ lêm 'go(ing)(to)'), 'f. '(here)',

and lf. '(there)'. These verbs directly precede the main verb (of the phrase or clause) and can receive some of its inflective affixes, i.e., subject pronouns 4.4 and 4.9b, future -cs, past tense -\frac{1}{2} (with 7f., lf. and mf only), imperative -t\frac{1}{2} -\frac{1}{2} (with me and mf and le), subjunctive we- (with 7f., lf., mf)(+ 4.9b pronouns).

Though all four verbs contain semantic oppositions of emplacement ('here', 'come to') and displacement ('there', 'go to'), these semantic elements are rarely translated (except for le). Thus the glosses parenthesized are usually omitted, though often implied. As Edna Bobb explained it, le means you have to go somewhere else to do the action; me means you have to come to do the action. With me - mi,'(come to)' also has the sense of 'come to pass, become' as in archaic English phrases like "and so he came to dwell there".

Plenty of examples have been given already of auxiliaries ?f. and lf. in 6.1 and 4.9; some have also been given of me ~ mf and ls in 6.1. A few more examples of me ~ mf and ls will now be given:

cel ls t'ák' "I went home'

cel me t'ák' "I came home'

lscel t'ák' "I'm going home'

mecel t'ák' "I'm coming home'

- cel me méstex te ?f.1 ?s sk'f 'I brought what you wented'
- cel me qelf.meet 'I'm getting weak' ("coming to get weak")
- cel le xyak, wem lec'éx "I went for a swim once'
- me réywé0èlèm 'I was warned'
- me qelqéyl tel sq $^{W}$ é·lewel 'I lost heart, I became disappointed or discouraged' (CT)
- mí hák<sup>w</sup>ex<sup>y</sup> to s(x<sup>w</sup>)c'áq' wels qosu mí c'q' wét to sqé we qosu mí łé yem 'l tol lábol 'use a fork and poke the potato and serve yourself in my plato' (CT)
- me cá·lqem 'come along after (without s-o knowning it), follow'
- me kwú·0áxyes 'he came to take me'
- lecuł yék, "I already hired' (EB)
- lscel qa'qet 'I drank it, I'm going to drink it'
- me lflftem to slfmexW '(the rain is) starting to sprinkle (come splashing)'
- cel la miliyel 'I went to set a net'
- me q'á·l0et 'to return'
- me ?f.yelexW 'come back to life, revive'
- me p'ékW 'rise/come to the surface (come float)'
- me k' wclex catch sight of s-th'
- me p'62 'sober up' ("come to be sober")
- ls ?f.yel 'go away', and ls k'pf.l 'go down'

#### CHAPTER 7. PARTICLES

Particles are a small class of words which cannot be inflected and which includes subsets of interjections, conjunctions, modals, and adverbials. Not all conjunctions, modals or adverbials are particles in Halkomelem; many of them are intransitive verbs. and some conjunctions are Halkomelem demonstratives. But interjections are all treated like particles. In Halkomelem, conjunctions, modals, interjections, and adverbials are syntactic classes while particles, intransitive verbs, and demonstratives are inflectional classes. Within the class of particles, interjections are always stressed but conjunctions and modals seldom are and adverbials never are. Since particles can't be inflected there is little more to be said about them here except to list those found so far, with some examples. More will be said of them in the syntax chapter.

7.1. Interjections. These are mostly used in syntactic isolation; length can be stretched to : or even : (three morae). The following have been found so far: q616m6x<sup>y</sup> 'oh my goodness!', also lá q818m8x<sup>y</sup> ~

% qàlàmàx 'oh my goodness!'
% cele 'gee!, good grief!, my gosh!'
% clelf? 'yipes!, eek! (said to oneself or s-o else when

- scared)' (some younger speakers (middle-aged, moderately fluent) say 'snenf')
- 76g [?íg] 'you're kidding' (slang popular at hop-picking 30 years ago)' (possibly < English slang, cp. "ish-kabibble", etc.)
- lé?s 'hey!'
- ?f? 'stop!, (you're close to) danger!' (slang)
- q, watch out please!
- lé·le 'well! (if surprised)'
- yú;w 'how beautiful! (said when praising s-th beautiful you're admiring)', also yú;wq<sup>W</sup>±ɛ and ²ɛ́yq<sup>W</sup>±ɛ 'how beautiful!, really beautiful!' (the -q<sup>W</sup>±ɛ is an intensifier (adverbial) and may convert yú;w into a verb)
- tu s?á± k; we±é (perhaps tu s?á±-qw±ɛ?) 'that's terrible! (of s-o's actions)' (tu is probably an adverbial particle with intensifying force as listed below; s?á± may be the possessive pronoun 'our' or something entirely different)
- ?6 'oh!' as in ?6 te xét'età 'oh the talking! (said when fed up with s-o talking too much)', ?6 teléwe sqwmf.y '(oh) you dog!', ?6 teléwe spipfyx el '(oh) you crooked leg (person)!', ?6 teléwe skwfk, wiy 'oh, you're stingy!', or ?6 te skwfk, wi(y)e 'oh, the pitiful person! (used of kids when hurt, etc.)'

- (sk, w 6k, w ie 'pitiful person' may < sk, w 1yee 'slave' so I have added a parenthetic (y), thus sk, w 6k, w i(y)e) 'E to sw 6k, 'oh-oh, (here comes) the dandy! (sw 6k,
- ? \$\varepsilon \text{ fto sw\(\text{k'}\) 'oh-oh, (here comes) the dandy!' (sw\(\text{k'}\) 's-o who overdresses, a dandy', sw\(\text{k'}\) loc 'a show-off, comedian')
- léw 'say! (said to get attention politely), hello (greeting)', also lé léw 'say! or hello! (to spouse)'
- (a sound of glad greeting to see children, made while patting kids under chin with palm upright) (used by the oldest generations now remembered -- grandparents and great grandparents of today's elders who are themselves great grandparents and grandparents, but seldom used since)
- ?&.?& 'yes' (sometimes even [?m:?m]), also ?& (apparently
  when not initial in sentence) as in yaswe ?& 'maybe
  yes', lf t'we ?& 'must be', and lf ?& 'I guess so'
- if ?& (Cheh.) ~ li me (Seabird Is.) ~ ±6q (RM of Sardis) 'I guess so' (li is present in affirmative
   reply to yes-no questions, see next item)
- 1f 'I am, I do, yes, he is, he does, etc.' (affirmative reply to yes-no questions which have interrogative lf)
- (?i?&•y ~ ?6?àwò± 'uh-huh (keep on going)(said to a storyteller to show you are listening and awake)' (all upriver dialects have the first form, ?i?ۥy

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which is probably diminutive R_h- plus %.y 'keep on
(going)': AC has it too but also uses ?6?awol (as do
some others) in the same way as ?i? £.y; since R, - and
-awat ('polite imperative') are both inflections, nei-
ther word probably can be counted a particle.)
7.2. Conjunctions. Those which are particles include:
ge 'and, but, or' (gloss depends on sememic environ-
   ment though 'but' is also sometimes qo-w or qo _-w)
   (conjoins verbs, phrases, sentences, and sometimes
   even nouns)(AC qe ~ qE)
ges 'and' (conjoins numerals, independent pronouns,
   and nouns (nominals): precedes demonstrative article)
su 'so, then'
(EB: gew -e ~ (AC) ge -e 'until' (probably inflec-
   table and not a particle))
Some of these can occur in combination with qe, modal
Θ'ε. wel, and inflectable k'a and ?e:
desu 'and so, and then'
?esu '(and) so'
sul 'so (already)' (< su + wel)
dewl 'and (already)'
(qe) + a- -su (pronoun set 4.8 can go in the blank)
   (used especially in narratives and stories)(the
   paradigm with 4.8 pronouns is as follows):
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- (ge) k'a-l-su 'and so I, and then I'
- (ge) h'a-?s-su 'and so you, and then you'
- (qe)\h'a-(s?6)s-su (~ (qe)\h'a(s6)su) 'and so/then he/she/it/they'
- (ge) h'a-s' oct-u 'and so then we'
- \*(qe)h'a-s'6lep-su 'and so/then you folks' (not yet attested)
- \*acs su 'then he will, so it will be him that'
- qe\*'ae':ssésu 'and then they say he, and so it is said he/she/it/they'
- (?a)wes ... qe 'if not ... then'

#### Examples:

- le ?&\*?qel qe ?ewéts ?à kapús qe yíyeq 'He went outside without a coat (lit. "and he just had no coat") and it was snowing.'
- le lemélstex wes to Bill to sq'émél x welém to Jim qe Bob 'Bill threw the paddle to Jim and Bob.'
- cel k' eclame qe Bob 'I saw you and Bob.'
- c'sc'ic'ak' qs mak" 'short and stout'
- h'accsu q'Weyfl6xy qc t'f'lem tel siyé'ye 'My friends
  will sing and dance.'
- h'á swés 'iséle sq<sup>W</sup>eméy qes to qéy pús 'He has two dogs and lots of cats.'
- cet ?fitel tlagf.ys to Bill qss ts?f?sles 'Bill and I are eating right now.'

cet 'fitel to Bill que te'f'alle 'Bill and I ate.'
'Anel cas to loc'e 'eleven'

tux welsx f qes to tu . w 'ninety-nine'

slét qes to swéyel 'night and day'

- 3. lí lém k'" e Bill qe Bob 'Did Bill or Bob go?'
- k'á Bob qe k'á Bill 'It's Bòb or Bill.' (presumably the second k'á would be absent if qe were 'and' here)
- ኢ'ά· Bob qe ኢ'ά· Bill 'Is it Bob or is it Bill?'
- ትንፎ t'we Bob qe ትንፎ t'we Bill 'Maybe it's Bob or maybe it's Bill.'
- licx liyem qe licx xèm 'Did you laugh or (did you)
  cry?' (last five sentences by EB)
- (AC) If cáx<sup>W</sup> to lélems que li stotis 'Is his house far or is it nearby?'
- (AC) lfox lf to s?shf.ws qs lfox telé:1 'Are you on the outside (upriver side) or the inside (back by the wall side)(of a bed)? (cp. lémcex to lelé:1 'you go to the back (near the wall)')
- 4. lémetcel qe cel ?éwe ?à 'I was going but I'm not now.'
  cel wek; "ák' wecet qe le-w lép'ex" es 'I was watching him
  but he ate it.'
- xéyxewetem qe-w le x<sup>y</sup>ák; wem 'He was (being?) warned but he bathed.'

The -w in the last two sentences may be an intensifier suffix as with adverbial Vi's.

- 6'exwat qe 'Swecexw c'Syxwtexw 'Wash it but don't dry
- q6x to k'ik' fyetp qe ?ew6ts k'ik' el 'There's a lot of bean wines but no beans.'
- 5. su '1. westes túk'a eú'k'à 'so she showed/taught him' k<sup>w</sup>éléx<sup>y</sup>tes túk'a su mí k<sup>w</sup>el·éx<sup>w</sup>es 'He shot it, so he caught it.'
- su  $x^W = ?f \cdot lx^W = s$  te sméyees 'so he brought him his meat'
- 6. (next four sentences by EB, last three by AC):
- yè·m ?à qew (léme t'á·k; w, mí ?e xwe?f• te té·ls) 'He was crying until (he went home, his mother arrived).'
- spipew to stá·lo qew léme xwlf to slo°á·001 'The river is frozen all the way across (until it goes/gets to the other side).'
- spipew to stá·lo qectu (hyper-slow qo cot-ew) léme xwlí to slo?á·001 'The river was frozen until we got across.'
- méqs qectu léme xWlf te smé·lt 'snow (all the way)
- (AC) lscx cá·m qe téscex ?e te smf·lt 'You go away from the water till you get to the mountain.'
- wə'f'.calcs '0 k' a là qo tổscs '0 to sléc'os 'I'll be here till one o'clock.'
- we?f.celcs ?e k; We là qe x We?f.cex Wcs 'I'll stay right here until you get here.'

- 7. qesu lêm 'and then he went'
- ?6xqqst to mécos qosu y6qwt k;wo sisq, 'strike the match and light (burn) the kindling,
- c'q' wet to sqe we qosu me le yem if tol lacol 'poke the potato and put it/serve it on my dish'
- qesu tátel·à·met yuk·á·lem 'and (so) they understand'
- 8. Pesu lém ye lí·k, w 'and so a few (people) came'
- ?esu k'á sq<sup>W</sup>élq<sup>W</sup>els 'So that's their news/story/narrative'
- ?esu ôft to sá·seq t, "k'áce k el swé" 'So the youngest (sister) says, "That (man) will be mine."
- ?esu lf:m yuk'á·lem 'So they went and went.'
- ?esésu me hí·kWeet te gá· 'and then the water got big'
- ?esésu kº clex es te squeque li te sme lt 'then he
- ?esésu le ⊖'é·m 'then it subsided/went down (flood water)'
- 9. h'elsuž přem k'Wels ye'femexy '(so) I cried when (while) I went walking'
- \*'elsul lém t'á'k' 'I have to go home.'
- sul me kwel. & we 'so he's got it' ('already', 'come, come to' and 'happen to' are implied but not directly translated in this example)
- 10. su le k' écet te hiyeq tûx'a qewl li te hiyeq 'so he looked at the fire and it was already in the

fire.' (CT)

le k' "Écet ştế tí Đứ 'a qowl k' sp'élecem to stqá 'ys
'She looked over there and the wolf was (already)
wagging his tail.' (CT)

qewl lé.m 'and he went'

- 11. \* alsu tés k' e tq'é lec '(So) I got to Vancouver.
- $\lambda$  alsu cleemet tel  $sk^{W}$ i· $x^{V}$ .  $\lambda$  alsu slalek, uiwel,

k'alsu θet, "lέw, siyέye" 'Then I heard my name.

I was dumbfounded, and so I said, "Hi friends" cel lém te stá·lo \*alsu k'\*sclex" te céx se'ác"i

'T went to the river and saw a lot of fish.'

'I went to the river and saw a lot of fish.

- ?ścel tatí·lt to halq'eméylem sq<sup>W</sup>è·l k'alsu پهچخ·ylt
  'I'm learning the Halkomelem language and I'm writing it.'
- le lemélstex wes te sq'émél qek'alsu k dl·éx 'He threw the paddle to me and I caught it.'
- 12. λ'a'εsu lέm ('ε ~ 'e here) 'then you go'
- méx<sup>y</sup>le te st'ale?aléstel qeh'a?esu k''éclex'' 'Take off your eyeglasses, and then you can see it.'
- 13. kWútes te lepél k'esu k'WaqWeeáx es 'He took the
- k'asu tés te smé·lt qesu le  $k^W$ etx $^W$ f·lem yuk'álem 'and so they got to the mountain and (they) went inside (into a cave)'
- k'esu le tés k'We seméθ te q'exWowei 'Then the big canoe

- got to Sumas.'
- m6k; slét k; wes ?emf(s) to lelément to ?iséle spée \* h'asu ?éttel(s) to qwe?áp 'Every night two bears come to our house and eat apples;' (parenthesized -s possibly errors).
- qek'asu méytèmèt túk'a 'and so he was helped'
  (xéyet, hewe'st) qek'esu xè'ms '(fight him, teasing
  him) till he cries'
- 14. k'as'ésu  $x^W$ elmé $x^W$ qel lí te  $\theta$ é 'Then they spoke Indian language there.'
- k¹asésu ²á·tes te mestíyex<sup>W</sup> 'and so he called the people'
- h'asésu ?emí te stegá·ye 'then the wolf came'
- (AC, hyper-slow) [le ?iyá·tel qé-k'á-s?Ís-su xæm]
  'they had a fight and he/she cried'
- le ?iyá·q0et te smímexèt qek'as °ésu x<sup>W</sup>e (taliq<sup>W</sup>át, smímayèe) 'The caterpillar changed itself into a (moth, butterfly).' (lit. "and so it became a moth/butterfly")
- le li·c'etem qeh'as'ésu caléx em 'he was cut and he bled'
- qe $\lambda$ 'asésu le  $x^{W}$ é (hyper-slow  $x^{W}$ é) mestíye $x^{W}$  'and so he turned into/became a person'
- le 00k; "étes qok'asésu xe0'étes qek'asésu célq 'He pulled it and then pushed it and it fell.'

- x mamx elem qek asésu kék mx el qek asésu (wec ek , célq)
  qek asésu lek x el 'He was running and he tripped
  and fell and broke his leg.'
- 15. \* assectu welèm sq'eq's 'so we'll go together'
  'Sowe lis 'i qe\* assectu 'Ettel 'He wasn't here and so
  we ate (without him).'
- 16. h'ace su q' eyîlêx qe t'î lem tel siyê ye 'my friends will sing and dance'
- 17. qeh'a θ's sésu (lèm, k<sup>w</sup>útəm) 'and then they say he (went, was grabbed)'
- 18. wés %'as to méles qo %'as to ?f.me@s 'if it's not his son, (then) it's his grandson'
- 7.3. Modals. Some particles have meanings associated with English modal auxiliaries (probability of action, obligation to perform action, etc.). A few words also have such meanings but can be used otherwise as inflected Vi's (yáswe 'maybe, perhaps', '?iyá·lem 'can, could; (be) right, correct, okay', sk'\*&(·)y 'can't, be impossible; be wrong', and sk'i 'want'); these may be words used both as Vi's and particles (they will be marked as possible particles). The modal particles include: 6's c's 'it is said, they (impersonal) say, so they say'
- t'we t'we 'must, should', also in combinations like:

  ?et'wewl 'must have', lf t'we 'I guess (uncertain)'

(probably contains interrogative li), and 'Ey t'we 'it's better if, s-o had better'

kWf 'anyway' (perhaps adverbial)

(related: yáswe, sk'wé'y, sk'í, and ?iyá'lem (but cp.

lí 'á'le 'Is that right?', 'iyá'lem probably < 'iy(affixed version of 'éy 'good'), 'á'le 'right, correct', -em 'middle voice' or < 'éy + 'àl as in

tus'éy'àl 'gently, softly' and lícx we'éy'àl 'Are
you doing alright?') (modal but verbs not particles).

### Some examples:

- 1. c'6 'so they say' (in a story by Mary Peters)(EB 0'6)
  (EB) 6'6 lèm 'they say he went'
- (EB) θ'ε xét'estem k<sup>w</sup>ses k<sup>9w</sup>éclem 'they say he was seen' (xét'estem also means 'it is said')
- 2. t'we ?f.tet 'he must be sleeping'
  q6x t'we k'<sup>W</sup>s t£16 'you must have a lot of money'
  spaleq<sup>W</sup>f0's t'ws 'it must be a ghost'

11.1 t'we 'must have been'

?f.tcel t'we ?f.tet 'I must have been asleep'
váswe t'we 'maybe it was' (?)

sk' " t'we k' es lêms θú· 'it might be impossible for her to go.'

 $sk^{9}$ éy t'we  $k^{9}$ es lémcet 'We might not go.'

3. %t'wewl lam 'He must have gone.'

yáswe ?ét'wewł há'y@el 'They may be finished eating.,

- Perhaps they're finished eating.
- 4. 16 t'we 'I guess.' (only attested in isolation)
- 5. '£y t'We k'Wels lêm 'I'd better go.' (lit. "it must be good that I go")
- 6. lém kwé 'he went anyway'
- stém kwé k' e qwalstes 'What is he boiling (anyway)?'
- kwekwcf.m kwf "serves her right she's screaming now",
  probably 'she's screaming anyway'
- 7. yá(·)swe (weléměl, welémex<sup>w</sup>, welémet, welémelép, welémes tú·k'a/θú·k'a/yuk'álem) '(I, you, we, you folks. he/she/they) might go.'
- vá·swe weléměl 'I don't know if I could go.'
- yá·swe welfs ?iyálem k; Wels lém 'I don't know if it is/would be alright for me to go.'
- yáswe kwses 'iyálem k' s léms tú·k'à 'I don't know if it's alright/okay for him to go.'
- yáswe wesk; "éyes k; "els lém 'I don't know if I'm able to go., I might not (be able to) go.'
- yáswe wesk' byes (k' s lém, k' es léms 06.4'à, k' es lémcet, k' es lémelep) '(You, she, we, you folks) might not be able to go., It might be impossible for (you, she, we, you folks) to go.', (probably also 'I don't know if (you, she, we, you folks) are (un)able to go.')
  - 8. ?i·ł ?iyá·ləm (k, Wəls, k, Wes) ?£təl '(I, you)

could have eaten.

- ?f.± ?iyá·lem k'Ws (?£±tels, ?£±telcet, ?£±telélép)
  '(He/etc., we, you folks) could have eaten.'
- For other examples of yá(·)swe 'perhaps', 'iyá·lem
  'can', sk'<sup>W</sup>é·y 'can't', and sk'í 'want' see pronoun
  chapter. 4.8 and 4.9.
- 7.4. Adverbials. The following morphemes, listed as adverbial Vi's, are unstressed and uninflected and so may be particles: wet 'already', yet 'just, now', xwel 'still, yet', 'el 'just, simply', kwettu 'really', and tu '(intensive)'. For examples of these adverbial particles or Vi's see the chapter on verbs, section 6.2.4.

## CHAPTER 8. NOMINALS

8.0. Nominals include many morphemes which are underived nouns, plain and simple (such as  $q^{*W}6\cdot 1$  'ear',  $\theta(\circ)q\acute{e}t$  'tree', etc.). But even more common are words which have verb roots and a nominalizing prefix, s- or  $sx^W$ -. These function in every way like true nouns, but they are formed from verbs and are nominalized by the prefix just as even inflected verbs, verb phrases and sentences can be nominalized by the same prefix. So it seems best to call the whole class (including underived nouns) "nominals".

In addition to the s- and sx<sup>w</sup>- prefixes, nominals can also be derived from other nominals or verbs by some lexical affixes (see Chapter 5). Verbs can also be relativized (nominalized?) by preceding them with a demonstrative article (tel s?f·k, w 'what I lost', te q'£q'et'em 'something sweet'), but that is a matter for syntax; pronoun sets 4.3 and 4.11 are nominalized in this way too from the pronominal verbs of 4.1 and 4.2. Some interrogative verbs are also nominalized by affix or article to form the indefinite nominals. Numerals are nominalized by lexical affix, s- prefix, or article pre-position. Particles are the only inflectional class which cannot be nominalized by any means.

With some nominals, once the s- or  $sx^W$ - nominal-

verb or anything else; the root is no longer attested elsewhere. With other nominals the s- or sxW- nominalizers are present in some dialects or idiolects and absent in others; in these cases the unprefixed form is still a nominal and is a synonym with the s- or sxw- prefixed form (or nearly so). Here are some examples of nominal derivation: sp'á·k'em 'smoke' < p'á·k'em 'to smoke' st'f lem 'a song' < t'f lem 'to sing' s?10'em 'clothes' < ?10'em 'get dressed, dress oneself' sq'ép 'a gathering' < q'ép 'gathered' smék, wem 'something second-hand' < mék, wem 'use secondhand! skwexyé.m 'number' < kwexyé.m 'count' sx<sup>W</sup>qέγqəxáθət 'sled, toboggan, ice skate' < qέγqəxáθət 'slide oneself, make oneself slip or slide' sx θá·yəlcəp 'fire poker' < θέ·y 'making, fixing' + Aa· + -əlcəp 'firewood' (Chill.) sc'é·lectel ~ (Tait) sx wc'é·lectel 'bench, chair' < c'é. 'be on top of', -lec 'rump, bottom',

izer is removed the root cannot be identified as a

-tol 'device'

sqelf.w 'beaver' (root unattested elsewhere)

lox Ws-t'1.lem 'a person that always sings' < t'1.lem

cack W4.les 'goatsbeard plant' < ckr 'be distant, far'

+ R<sub>1</sub>- 'continuative'? + -á·les 'in the eyes'

tq'&c-£le 'five people' < tq'&ces 'five' + -£le

'people'

s-tq'&ces-s 'five o'clock' (/stq'&ces/) < tq'&ces

tɛléwe 'you' < léwe 'it's you'

s'syf'ws 'the right side' < ?syf'ws 'be on the right'

(in turn < ?&y 'good' + -f.ws 'on the body')

steméstwe - k<sup>w</sup>stémes 'something' and stámcele 'some
place. somewhere' < stém 'what is it', what?'

swatle 'somebody' < (te)wet 'who?, who is it?'

Nominals cannot be inflected for case in Upriver Halkomelem; here case does not exist, not even the relative case found in some other Coast Salish languages. Syntax, prepositional verbs and co-ordination with pronoun affixes on the verb do the job of case. However, nominals can be inflected for possessive, diminutive, plural, and past tense. The sections to follow will treat derivation of indefinite nominals, then the inflections of possessive, diminutive, plural, and past.

# 8.1. Indefinite nominals.

- 1. kW stémés, kW00 stémés, k'W0 stémés 'something'
- 2. tawétas 'someone, somebody (unknown)'
- 5. st@méstwe 'something' (probably 'something unspecified')
- 4. tew£testwe 'somebody' (probably 'somebody unspeci-

fied')

- 5. k9 iléstwe 'unstated how many, "it doesn't say how many", an undetermined number'
- 6. swatle 'so-and-so, somebody known (whose name is not known), what's-his-name'
- 7. stámcele 'someplace, somewhere' (EB only)
- 8. tewétesà 'anybody'
- 9. kW stémés 'anything'
- 10. ye li·k, (AC) ~ ye k, i-lès (EB) 'a few, several (people or animals)' (contrast ?emimel 'a little bit, a small amount, a few')
- ll. mek' stém 'everything'
- 12. mak' (a) wat(as) 'everybody'

From following examples it will be seen that the above are all nominals. They are all derived from interrogative verbs (stém 'what?, what is it?', (te)wét 'who?, who is it?', and k, f. 1 'how many?, how many is it?'). Those deriving from stém and tewét could be said to be nominalized by s- and te- (though these are already present on the original verbs) because stém and tewét do have a nominal flavor as well and because tém (in temtém 'when?') and wét 'who is it?' are also found.

Indefinites 2, 3, 6, 7, 11, and 12 above are all attested following demonstrative articles. 1, 9 and 10

are not attested following demonstrative articles because they include the articles: 1 is really kW. kWee or keWe + stemes, but is not an indefinite without the article; the citation form is kwstémés. The same is true of 9 and 10: 10 includes the plural demonstrative article, and AC's form apparently has a metathesis of consonants deriving it from k, Wf.1. In addition to these features 1, 2, 3, 4, 5, 8, and 9 have the suffix -es which seems derivational but is otherwise unclear. 3, 4, and 5 have the suffix -two which seems to mean something like 'unspecified, unstated'; possibly it means 'uncertain' and relates to t'we as in li t'we 'I guess so'. 6 and 7 have Aa (ablaut of root vowel & to a) as well as -cele and -le suffixes of uncertain significance: -cele could be a metathesis of loce, EB's variant of 'sloce 'where?'. 8 ends with -a 'just' (see adverbial Vi's), and a similar variant of 9 may exist too. 11 and 12 both have either prefixed or preposed mok, all. every' or use stém and wét(es) as suffixes. Examples:

1. cel hék, weles k stémés 'I remembered something', sétactes k, se stémés 'he lights something, he set something on fire' (cp. sétactes k, se pípe 'he lights paper (on fire)'), yéq t k, se (stémés, sísq') 'burn (some-

thing, kindling)', c'q' b' k' k' ee stémés 'poke something, pick something up by spearing, spear something', léwex' es k' stémés lí te sx' átk' ewel 'he/she sticks something into something hollow', x' éylémt k' stémés 'measure something, weigh something' (x' éylémt 'weigh/measure him/her/it/them' < x' éylém 'rope, string, thread').

It may be good to retain abbreviation of transitive third person objects as "s-th/s-o" which really stand for "him, her, it, them" and to contrast these with "something" and "someone" (written out in full) which are only impersonal (and indefinite) as in k stémés and tewétes.

- 2. c'£c'əq' Vlem k' təw£təs 'someone got shot',
  lə télstəm k təw£təs wəls yə'f'məx s 'somebody stumbled while he was walking' (wəls appears to be an
  adverbial Vi or adverbial particle), lə q dəlq səs
  təw£təs 'he's telling on somebody' (sic lack of article)
- 3.  $k^w$ elétes te stéméstwe 'he's holding something', lecx  $^w$   $k^w$ ét te stémést(')we 'let go of something', and stéméstwe 'eyá· $\theta$  xéyp'et  $k^{,w}$ el 'á $q^w$ elec 'something sharp scraped/scratched my back' (it would seem xéyp'et followed by an article should begin this sentence; the syntax seems unusual)
  - 4. tewétestwe  $sq^W$ eméy 'somebody's dog' (cp. tewét

sawemey 'whose dog?')

- 5. h'asésu le hepí·l k' iléstwe yuh'álem swáweles 'ind so the young men went down, it doesn't say how many of them' (perhaps smoother in English: 'and so an unstated number of young men went down/descended')
- 6. c'éc'eq'\*lem k'\* swátle 'so-and-so got shot, what's-his-name got shot', cel wawistéleqmet te swátle 'I'm jealous of somebody', seiyép te swátle 'somebody (who I know) is wearing a loincloth' (seiyép 'wearing a loincloth' > or < seiyép 'loincloth, dog hair cloth aprons'), (te) sk\*í·xy\*s te swátle 'somebody's name'
- 7. lémcel k'We stámcele 'I'm going someplace, I'm going somewhere'
- 8. tewétesà k' e eiyem 'Anybody can do the baking.', tewétesà k' e 'emi sq'á 'Anybody can come along.', tewétesà k' e 'ei'ls k' s mes yesq'á 'Anybody that wants to can come along.' (without preceding article tewétesà may be a verb in these examples)
- 9. No examples in sentences, just the citation form  $k^W$  st£més 'anything'
- 10. (AC) ?esu lèm ye lf.k, vand so a few (people) came', (EB) s?f.k, vy k, vf.lès 'several people were lost (and presumed dead)' (k, vf.lès 'several (people, animals)(exact number unknown)' as in k, vf.lès t, we te músmes 'there must be several cows'. Incidentally

the latter example within this parenthetical note contrasts t'we with -twe quite clearly), (EB)  ${}^{9}$ cx  ${}^{8}$ eeax ${}^{7}$ cex  ${}^{8}$ k ${}^{9}$   ${}^{9}$ emimel 'give me a few (berries for ex.), give me a little bit (water for ex.)'

11. liqwel to mek; wstém 'all is calm, everything is calm', téwel te mek; wstém 'all is bright', mek; wstém 'éy k; wes efyém 'you cook (fix/make) everything nice (good)' (syntax is a little odd), mek; wstém sx v? éys 'good for everything' (cp. ? wéte sx v? éys 'good for nothing'), mék; wa sx wlís to qá. 'There's water everywhere.' (sx wlís 'where it is'). (mék; w - (AC) mók; w seems to be an adjectival verb '(be) all, (be) every' as seen in the following: mék; w slét 'every night', lomlémetox mék; w tel e; w wlwétem 'fold all my laundry!', sk; wéy k; wes mók; w elep lém 'you can't all go', qek'asésu 'á: mók; w yuk; élem 'and so they all got in the cance/got aboard')

12. sk'is k'\*e mek'\*ewêtes 'he likes everyone',
wet 'iyá'lem k'\*e mek'\*ewêtes 'enough for everybody',
mek'\*ewêt lêm ~ mek'\* lêm 'everybody went', mek'\*ewêtes
k'ek'êx'eltes 'he/she/they invited everybody',
mek'\*ewêt le 'êyeles 'everyone left him'.
Apparently mek'\*stêm and mek'\*(e)wêt(es) have some
syntactic features still to be figured out.

13. Although they formally resemble indefinites,

relativized interrogatives do not belong here as they are clearly verbs: westémescs k, es? fêtelcet 'what we'll eat, what it will be that we eat', ?6weł le 06t yuk'flem westémes to qá 'They didn't say what the water was (fresh or salt water)', (EB) cuł łq'6lex (westémés, wetewétes, we'fs lécs, wex cé'les, we'fs tel·6cs k es x we'f') 'I know (what it is, who it is, where it is, where he's going, where he came from).'

14. ?ewétɛ 'none, nobody, nothing' either belongs here or with negative verbs ('be/have none/nobody/nothing'); its class is unclear as yet. Thus ?ewétɛ me xwe?f. 'Nobody came.', ?ewétɛ ?f. 'He's not here.', ?ewétɛ-l-s £f.m 'I didn't pick anything.'

8.2. Possessive Inflection. Possessive inflection has already been described in the chapter on pronouns; see 4.6 and 4.7. The third person possessive suffix is used instead of a genitive case: to slóx wots to swiyeqe 'the man's cance' (lit. "the cance—his the man"). Partitives use prepositional Vi telf 'from': to lálec'e telf to swaweles 'one of the young men' (lit. "the one-person from the young men"), or lálec'e telf \*telf men 'one of us'.

8.3. Diminutive Inflection. Diminutive inflections of nominals is done by several types of reduplication: most often by  $R_4$  ( $C_1$ f-), but also by  $R_1$  ( $-C_1$ e-

after  $V_1$ ),  $R_3$  ( $C_1 e C_2$ -)(once),  $R_5$  ( $C_1 e$ -),  $R_6$  (-e $C_2$ ) before  $V_1$ ) and  $R_7$  ( $C_1 \mathcal{E}$ -). Since this has been treated in detail in the morphophonemics (2.5) only a few examples need be given here; 'pet name' belongs here as a morphosememic variety of 'diminutive'. There are also diminutive lexical affixes (for example -iys in Chapter 5), but they are clearly derivational. Examples:

R1: q'éq'emi 'little girl' < q'é'mi 'adolescent girl', státelo(w) 'creek' < stá·lo(w) 'river', xáxos 'little lake' < xá·cs 'lake', húneliys 'small-sized humpback salmon' < hú·liys ~ hó·liys 'humpback salmon', tétel 'Mom (pet name)' < té·l ~ tè·l 'mother', sísele 'granny (pet name)' < sí·le 'grandparent'

 $R_{5}$ : syeq'x6q'et 'a little bluff' < xeq'£t 'a bluff, cliff'

R4: sqfqewêe 'small rabbit' < sqewêe 'big rabbit, rabbit', efeqet 'little tree' < \text{e(e)qét 'tree',} sq\deltafae \text{"qfq"emey 'puppy' < sq\deltafae \text{eme(.)y 'dog', mfmx"aye 'little navel' < m6x\deltafae \text{"navel, belly button', x\deltafae \text{"mfx"elmex} \text{"little Indian' < x\deltafae \text{"lodian', lflek,"wl':l' 'small cross' < lek, \deltafae \text{"wl':l' cross (grave or rosary)',} \text{e'ie'x\deltayt 'bead' < e'\deltafae \text{t'gravel (smaller than pebbles)',} \text{sqfqemel 'puberty hut' < sq\deltafae \text{sqfm\deltafae l'pit house',} \text{sk'\deltafae \text{t'eleqem} 'little supernatural creature' < sk'\deltafae \text{leqem}

'supernatural creature (generic)'

 $\begin{array}{ll} R_6: & \text{spelf}(\cdot)1 \text{ 'small crow'} < \text{spá·l 'crow'}, \\ x^w e x^w i y \pounds \cdot ye \text{ 'housefly'} < x^w e x^w \pounds \cdot ye \text{ 'big fly, blowfly'} \end{array}$ 

 $\rm R_7$ : m²melehá·lł 'bird egg' < méle 'child', -há·lł 'young'

Only  $\mathbf{R}_{\mathbf{4}}$  and  $\mathbf{R}_{\mathbf{1}}$  are still productive diminutive inflections.

8.4. Flural Inflection. Plural inflection of nominals involves a great variety of processes and affixes, most of which have already been dealt with in the morphophonemics (2.3 and 2.5, q.v.). Nominals can be pluralized by reduplication (R<sub>2</sub>, R<sub>3</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, and R<sub>8</sub>), by ablaut (Ai·, Aε·, Aεγ, Aa, Ae) and by plural infix -el- -- 10-.

Inflected plurals usually imply ['many'] not just ['more than one'] or ['a few'] (even with paired body parts). Since this is true, they are seldom used with the lower numbers -- for example,  $\pm x^W \xi \cdot 1e$  siyá·lex<sup>W</sup>e 'three old people' uses the singular rather than the plural sí·yá·lex<sup>W</sup>e 'old people'. Further, not all nominals can be pluralized; those that cannot can be preceded by the plural demonstrative article ye or modified by  $q \xi_x$  'many' or some other verb or

context implying multiplicity. If the nominal is not pluralized by inflection, modification or context it can be assumed to be singular.

Diminutives with R<sub>4</sub>- are almost always pluralized by Ae on the vowel /i/ in the reduplication; diminutives with other types of R tend to have plurals made with the -el- ~ -le- infix rather than an additional reduplication. Nominals with reduplication for other purposes (derivational, continuative, etc.) sometimes replace that R with R<sub>3</sub> plural reduplication. All these adjustments reflect a dissimilation of processes. Inflection (if possible) is preferred to other ways of indicating plurality of nominals. But AC had noticeably fewer inflected plurals than speakers of Tait and Chehalis dialects; it is unclear whether that is idiolectal or dialectal.

Following are some examples of nominals inflected for plural:

 $R_2$ : syéq'yeq' 'a lot of logs' < syéyeq' 'a log', possibly st'élt'el 'person that sings all the time (any song), a singer' (probably pluralized action)

R<sub>j</sub>: qelq616m 'lots of eyes' < q616m 'eye',
celc£16x<sup>y</sup> 'hands' < c£16x<sup>y</sup> 'hand', st'elt'f16m 'songs'
< st'f.16m 'song', sewsewálem 'games' < sewálem ~
s?ewálem 'game', x<sup>w</sup>eyy<sup>w</sup>iyeiyásem 'movies, motion pic-

tures' (//ey// \rightarrow /iy/ here) < sx\(^\text{Miy6i 'image, picture, photo', s\(^\text{ell\(^\text{f'}\)}\) ('lots of) women' < s\(^\text{e'.lf}\) 'women, female', smetm\(^\text{ell'}\) 'husband's brothers, wife's sisters' < sm\(^\text{ell'}\) white spots on skin' < sp\(^\text{ell'}\) 'white spot on skin', s\(^\text{ell'}\) 'white spot on skin', s\(^\text{ell'}\) 'white spot on skin', s\(^\text{ell'}\) 'a sore', s\(^\text{we}\)'\(^\text{ell'}\) 'lots of sores' < s\(^\text{ell'}\) 'a sore', s\(^\text{we}\)'\(^\text{ell'}\) 'lots of lumps (any size); anthills' < s\(^\text{ell'}\) 's\(^\text{ell'}\) 's\(^\text{ell'}\) 'louse', eeqe\(^\text{ell'}\) 'trees, timber' < \(^\text{ell'}\) (e)\(^\text{ell'}\) 'tree' + Ae, smelm\(^\text{ell'}\) 'rocks, mountains' < s\(^\text{ell'}\) 'rock, mountain', s\(^\text{ell'}\) 'Thompson Indian people' < s\(^\text{ell'}\) 'Thompson Indian'

 $R_5$ : syexéyle 'legs, feet' < syéle 'leg, foot' + Aey, spepelá(\*)l 'bunch of small crows' < spelá(\*)l 'small crow', q'eq'elé·mi 'lots of little girls' < q'éq'emi 'little girl' (diminutive  $R_1 \rightarrow R_5$  and infix -el- is added), sk'\*ek'\*flwes 'child's in-laws, in-laws from any side' < sk'\*élwés 'child's in-law, in-law from any side' + Ai

R<sub>6</sub>: sc'iyáyə 'twins', səléləc' 'two different things' < səlé·c' 'different (thing)'

 $R_7$ : mémele 'children (kinterm)' < méle 'child (kinterm), offspring', tex mémelem 'stepchildren' < tex mélem 'stepchild'

R<sub>8</sub>: statf·wel 'sibling's children' < stf·wel 'sibling's child (nephew, neice)', (EB only) lalalam 'houses' - AC qex te lalam 'houses, a lot of houses' < 1616m 'house'

Ai: sf·yá(·)lex e (possibly ~ sf·yaléx e) 'old people' < siyá(·)lex e 'old person; old', sf·yé·m 'high people, chiefs, leaders' < siyé·m 'chief, leader, high person', sf·yé·ye 'lots of friends' < siyé·ye 'friend', sf·wíyeqe 'men' < swíyeqe 'man, male', scf·wetéł 'sons-in-law, daughters-in-law' < sciwtéł 'son-in-law, daughters-in-law', e'elf·p'ayeq c' 'great great grandparents or -children' < e'ép'ayeq 'great great grandparent/-child' + additional -el- or R5-

Asy: sxəxéylə 'legs, feet' < sxélə 'leg, foot' + R5
As: sk'\*é+ò ~ sk'\*éle\o 'in-laws' < sk'\*f\o 'inlaw (parent-/child-/sibling-in-law)', sx\*emlé+lek\*

'parent's siblings' < sx\*emlf+k\* 'parent's sibling'
(both this and the previous example have an additional
-le- plural infix), sé+k'\oten 'older siblings, older
cousins (children of older siblings of parent, etc.)'
< s6\*\oten \oten tell 'older sibling, older cousin'

Aa: swaweles 'adolescent boys' < swiweles 'adolescent boy'

Ae: 0eq0eqet 'trees, timber, forest, thicket' <

\(\text{\text{0}}\) \(\text{of}\) \(\text{tree'} + \text{R}\_{5}\), \(\quad \text{v}\) \(\text{driftwood'}\) \(\text{or more likel}\) \(\text{from an R}\_{4}\) \(\text{diminutive of } \quad \text{qW}\) \(\text{from an R}\_{4}\) \(\text{diminutive: } \text{xW}\) \(\text{6x}\) \(\text{v}\) \(\text{little Indians'} \
\(\text{xW}\) \(\text{fx}\) \(\text{elmex}\) \(\text{'little Indians'} \
\(\text{xW}\) \(\text{fx}\) \(\text{elmex}\) \(\text{'little Indians'} \) \(\text{cy}\) \(\text{fq}\) \(\text{elmex}\) \(\text{'puppies'} \) \(\text{cy}\) \(\text{fq}\) \(\text{elmex}\) \(\text{elmex}\) \(\text{elmex}\) \(\text{elmex}\) \(\text{elmex}\) \(\text{elmex}\) \(\text{elmex}\) \(\text{elmellow}\) \(\text{elmellow}

-el- - -le-: q'&(·)lemi 'adolescent girls' < q'&·mi 'adolescent girl', sqel&·q 'younger siblings' < sq&·q 'younger sibling', sxweml&·lekw 'parent's siblings' < sxwemlf·kw 'parent's sibling', (AC) sc'&lemeqw - (Tait) sc'el&·meqw - (Tait) sc'el&·meqw - (Tait) sc'el&·meqw 'great grandparents, great grandchildren' < sc'&·meqw 'great grandparents, great grandchild', 0'elf·p'ayeqw 'great grandparent, great grandchild', 0'elf·p'ayeqw 'great great grandparents/-children' < 0'&p'ayeqw 'great great grandparent/-child', sk'w&lebo - sk'w&·bo 'in-laws' < sk'wfibo 'in-law', sqel&·qele 'babies' < sq&·qele 'baby' (< sq&·q 'younger sibling' + -ele 'lacking'), (Tait) c&·lexw(s) 'wives' < c&·xw 'wife', sw&·leqee 'husbands' < sw&·qee 'husband', sxwalexwiy&·m 'ancient

people (over a hundred years old, can't move, just lay there in pit house, take liquids; in spring they dig out the roof to get them out into the sun)' < sx\*ex\*iyé·m 'story, legend', slélexces 'fingers' < sléxces 'finger', slélexx\*el 'toe', steliqfw 'horses (like a herd or bunch)' < stiqfw 'horse', steliqfw 'horse' (used of as few as four in one story) < stqéye 'wolf', \*'elqtéle 'deer (lit. "long legs")', \*'elqtélec 'pheasant (lit. "long tails"), \*'éleqtx\*el 'long legs, long-legged' as in \*'éleqtx\*el q'ésq'esecel 'daddy long legs, long-legged spider' and \*'éleqtx\*el q'é\*el (" spelwét q'é\*el) 'leatherjacket, long-legged mosquito (not actually a mosquito)' (spelwét q'é\*el is lit. "last year's mosquito")

-al- - -le- + diminutive or other R:

q'eq'elé·mi 'little girls' < q'éq'emi 'little girl'

(R1 → R5 'diminutive'), sc'emc'á·lemeq 'eldest great grand-children' < sc'emc'á·meq 'eldest great grand-child', čeličk elsá·lł 'baby chicks' < \*čičk elsá·lł 'baby chick' (so far unattested) < čék el(s) 'chicken', heheléwt or heheléwt 'a few little rats' < hihéwt 'little rat, small rat' < héwt 'rat', telflegsel 'baby ducks' < telégsel 'duck' (< tá·l 'go to the river' + Ae + -éqsel 'nose', i.e. "nose goes to the river" or "river-nose")

8.5. Past Inflection. Nominals can be inflected with the same past tense suffix used with some verbs and auxiliaries, -1 - -21 - -21. Here it seems to have allomorph -2·1 also, but this is probably from morphophonemic rules of vowel combination as it replaces final schwa in several vowel-final words (0 + 2 → 2·). The past morpheme has the alloseme ['deceased'] in the affixed environment of animate nominals (and demonstrative independent pronouns); with inanimate nominals it has the alloseme ['former']; it seems sometimes to combine a past tense meaning first with the verbal root of nominals which have clear verbal roots, rather than the adjectival meaning 'former' with the resultant nominal.

The past inflection seems to be used with nominals mainly for deceased animates; there it is optional, implying respect and reverence just as the words 'late' and 'deceased' do in English. However it is obligatory with three or four kinship terms where it has become derivational as a lexical affix (see Chapter 5). The past suffix also occurs on some nominals for time which can also be used as adverbial Vi's (i.e without an article). Its use with inanimate nominals is only attested in two examples and seems rather rare; more frequent is the interposition of ?f:1 between the

demonstrative article and the nominal (and its possessive. if present)(see 6.1.8.4.2 examples).

Examples of past inflection of nominals (and of some demonstrative pronouns)(all examples from AC unless noted):

- $k^W\Theta$ 01 sf·lè·l 'my late/deceased grandfather' (CT gives the same forms and also gives  $k^{\bullet W}$ 01 sf·lè·l 'my late/deceased grandfather')
- kWeel si·selè·l 'my late/deceased grandmother' (CT gives instead kWsel si·selè·l 'my late/deceased grandmother' with feminine article kWse; AC used kWee for both sexes at times and used si·le for 'grandfather' and si·sele for 'grandmother' at times).
- $k^W\Theta$ 01 sels1·12·1 'my late/deceased grandparents'  $k^W\Theta$ 01 mo12·1 'my late/deceased child'  $k^{**}$ 1·2·2·1 'that was him (deceased)' (demonstrative,
- q.v.)

  k<sup>w</sup>sú·λ·à·± 'that was her (deceased)' (demonstrative)

  k<sup>w</sup>eú·λ·à·làmò± 'that was them (deceased)' (dem.)

  swelméy± (possibly sic for swelmé± ?) 'child of

  deceased sibling' (< wélem 'orphan')
- smegtiy&t 'sibling of deceased parent'
  sx<sup>M</sup>em@iy&\*t (Tait) qsy&\*t 'deceased uncle/sunt/
  grandmother/s-o who is responsible for you directly

- or indirectly'
- (EB) sq<sup>w</sup>ε·ls tε? syuwε·le½ 'words of your ancestors' when used as nominals: spelwε½ 'last year' and celεqe½(e½) 'yesterday'
- lf me k<sup>9W</sup>ék<sup>9W</sup>elt to stálo lí to sx<sup>W</sup>lísel 'Is the river
  flowing (spilling) into the old riverbed (former
  place where it was)?'
- (CT) tel sx<sup>w</sup>?f·mex<sup>y</sup>£± 'where I used to walk, my former place of walking' (EB, EL, and others from Cheh. have 0e ne instead of tel as if the person who sings this song had lived downriver and learned downriver or island Halkomelem dialects).
- 8.6. Internal Syntax. From the examples and the nature of their inflections it can be concluded that if all nominal inflections were to occur within a word 'diminutive' would be first, then 'plural', then 'past', then 'nominalizer', and finally possession. The reasons for this conclusion are: 1. Plural inflections sometimes bisect and sometimes ablaut the diminutive inflection itself, but the reverse is not true, 2. Diminutive and plural are usually infixed or prefixed and when suffixed they are reduplication; past is only suffixed and suffixes occur after internal processes like reduplication and ablaut, 3. Nominalizers s- and sx\*- are added after diminutive and plural,

and if past is a verbal tense nominalization must follow it too, 4. Possessive inflection must be physically attached after nominalization because it precedes it in several persons and even attaches to nominalizing articles.

## CHAPTER 9. DEMONSTRATIVES

9.0. There are six types of demonstratives in Upper Stalo Halkomelem: 1. Demonstrative Articles (required before every nominal but expressing sex gender, proximity, visibility, indefiniteness, genericness, and sometimes plural human or absent human). 2. Demonstrative Conjunctions (used to conjoin verbs and verb phrases but clearly related to the indefinite/abstract/distant article k, we). 3. Nominal Demonstratives (demonstrative morphemes with preceding articles, used as nominals such as 'this thing here' and 'that person (nearby)'), 4. Adverbial Demonstratives (demonstratives which modify verbs and can be conjugated like adverbial Vi's, these are compounded mostly of verbs ?f. or li., followed by the nominal demonstratives (article + demonstrative morpheme)), 5. k'á 'that's . it's/he's/she's \_\_\_' (doesn't fit any of the other categories of demonstratives; it seems verbal but is not clearly a verb: however, it has a clear demonstrative translation), and 6. Pronominal Demonstratives/Demonstrative Pronouns (used as independent personal pronouns but derived from k'á + demonstrative articles and used to express sex gender, number. proximity, past (deceased), and diminutive of 3rd person personal pronouns). Each of these types

of demonstratives will be dealt with in a section of this chapter. The demonstrative system discussed is that of AC with confirmation by EB (Chehalis) and CT (Tait) in most cases.

Halkomelem demonstratives are hard to translate because most are indefinite and incomplete without a context. Furthermore, the context is seldom expressed within the sentence containing the demonstrative: it is often completed in other places in a text or conversation or by gestures or not at all. Most of the examples cited here of demonstratives in sentences or phrases are not from texts but were elicited as independent sentences. However, translations of the demonstratives were possible because, in addition to textual sentences, some of the sentences do contain the semantic context, and in other phrases or single-demonstrative elicitations the speaker gave parenthetical explanations of the semantic context. Especially helpful were demonstratives given in sets and contrasted with each other or in sentences identical except for changing demonstratives. Such examples will be given wherever possible.

9.1. Demonstrative Articles. These are used as articles in the true sense of the word: obligatory before nominals, translated by 'the', 'a', 'some', etc.

But the Halkomelem articles also express the following semantic components: masculine sex gender, feminine sex gender, gender unspecified, human, inanimate, present (in proximity), near, distant, proximity unspecified, visible, not visible, indefinite, generic, deceased, abstract or hypothetical, and plural. These components are combined into semantic bundles which are inflectional categories and can be indicated as follows (using abbreviations similar to those in Suttles1): m. = masculine sex gender, gender unspecified, or inanimate; f. = feminine sex gender; h. = human and gender unspecified; p. = present and visible, or proximity unspecified; n. = near and not visible: r. = remote, distant (and not visible), abstract (or hypothetical), indefinite, generic, or past (perhaps also deceased): pl. = plural. These categories are combined paradigmatically in the demonstrative articles as seen in the following table:

	m.	f.	h.
p.	te	Өө	
n.	k <sup>₩</sup> ⊖ə	sə,k <sup>W</sup> sə	<b>*</b>
r.	k,™ə	k, <sup>₩</sup> Θə,k <sup>₩</sup> sə	<b>*</b> *
pl.	any m.	any f.	Ъе

<sup>1.</sup> Wayne Suttles: op. cit.

Thus to, for example, means 'the (masculine/gender unspecified/inanimate + present and visible/proximity unspecified)'. When appearing before a nominal which is already masculine (like swivege 'man' or swede 'husband') the masculine component is merely in agreement; when appearing before an animate nominal which is not marked for sex otherwise (like siyalex "> 'old person' or sk'ik'eqel 'child'), to can specify the sex clearly (to siyalex we 'the old man') or remain ambiguous depending on the context and specificity of the speaker (te siyálex "e 'the old person'). Again depending on the context and specificity or focus of the speaker, any of the preceding examples could be either present and visible or proximity unspecified. When used with an inanimate nominal (like sm&.lt 'rock, mountain'), to may also mean either present and visible or proximity unspecified, depending on the context or specificity desired. In some cases the context conflicts with either masculine or present and visible components and vet to is still used: in these cases the unspecified alternates are called for (to stá·los 'the wife', li te ca'k" 'far away'). te can also be used with human plurals though ye is the article for that especially (to sté x of the children). Since ta can be either specific or unspecific it is sometimes ambiguous when the context is incomplete.

kWee means 'the (masculine/gender unspecified/
inanimate + near but not visible)'. With kWee,
m. works the same way as it does with te. The contrast
is with 'near but not visible'. A few examples will
illustrate: li 'i' kWee mè·l 'Is your father here?',
li, skWetéxW kWeel mè·l 'Yes, my father's inside.',
'eléce kWeel xWéylem 'Where's my thread?', le li te
s'é·à'q kWeel méle 'My child is outside.', cel
stéq:elexW kWee si·le 'I know your grandfather (absent).', kWeel si·lè·è 'my deceased/late grandfather'
(AC also uses kWee with 'deceased (past time) human').

k'We, like te, can also be interpreted in a number of ways: 'the (masculine/gender unspecified/inanimate + distant (and not visible)/abstract (or hypothetical)/indefinite/generic/past), some, a'. (EB has k'We ~ k'We). With respect to m., k'We works much like te. With respect to r., k'We also depends on the context and the specificity or focus of the speaker. k'We can imply 'distant (and not visible)' with subjects or objects of verbs (especially prepositional verb lf 'at, to, in'): lf(ye) q6x k'We siyát lf k'We lélem 'Is there a lot of wood at your house?' ("Is it lots, the (distant) wood at your (distant) house?"), k'alsu tés k'We tag'é'lec 'So I reached Vancouver',

le of ltem k, Bill 'Bill was robbed.' k, e is used for abstract nominals (and especially for conjoining dependent verb phrases and clauses. see 9.2): stem k'" sk'f 'What do you want?', stem k'" sk"ix"s te ?f.le 'What is the name of this?, What is this called?'. When desired, k, we can be used as an indefinite article, translated by 'some', etc.: 1 sh'i k'We of 'I want water. I want some water.', le efyq tas k, wa se 6k 'He dug for worms.', licx be yt k, we p'á.0'es 'Are you making a baby basket/cradle?'. macx of k, walft k, was softtel 'Come here and bring some food!', le hé we k'We spé & He went hunting for bear.' (EB: kW st&més 'something', kW s?&ltel 'some food', as well as examples with k, wo). k, wo also seems generic at times (some of the preceding examples could be so interpreted as can the following): sts? & k, we sθ'á·q<sup>W</sup>i 'It's like a fish.', stε?έ k, We sq<sup>W</sup>mέy 'like a dog', tə'a' məx y k' e swiyəqə 'looks like a man', ste? £ k, We stá·lo 'like a river'. k, We used for 'past' can be seen before some adverbial words which otherwise seem like adverbial Vi's: k' a calégat(at) 'yesterday', k' spelwét 'last year' (EB: kW spelwét.  $k^{W}$  cəleqə $\pm$ (ə $\pm$ )); the  $k^{W}$ e (or  $k^{W}$ ) can be omitted with no change in meaning or syntactic position but perhaps with more of a verbal function. At any rate, to and

 $k^{W}\theta\theta$  are not attested before these words.  $k^{*W}\theta$  'past' also turns up in yewélmels k' e 1910 'before 1910' and yewelmels k, we sxexelet 'before Sunday'. Wayne Suttles reports that k, we is used in the Musqueam dialect (at Vancouver) to show that a following human nominal is deceased2: CT has such forms in variation with kWee (k, Wel/kWeel sf.le. my deceased/late grandfather'), though my notes for AC show only kwee with such past tense nouns (possibly more elicitations of past nominals would have turned up a k, we). When referring to deceased persons without using the past tense suffix AC, EB, CT, and others seemed to freely use any of the other articles. Perhaps  $k^{,,W}$ e ~ kWAa ~ kWsa are only required in Upper Stalo dialects when the nominal has the -21 (etc.) suffix (compare the pronominal demonstratives in 9.6 which shed additional light).

The f. articles are used only with animate nominals and are less complex. p. works with them as it does with to. There are few examples of the n. and r. forms, but it seems that so  $\sim k^W$ so for n., and  $k^{1/2}$ eo  $\sim k^W$ so for r. Examples:

<sup>2.</sup> Wayne Suttles: op. cit.

k, wamet ee sk'ik'eqet 'raise a girl child', meyeax es Ge Melf 'Mary (present and visible) helped me.'. 10 rwcákwel 00 Mary 'Where is Mary going? (she's present)', cel słeg'elex es stáles 'I know your wife (present or absent).'. le lí k'We se'á·mes eel méle 'My daughter is in Victoria.'. cel k' Weclex @ 00 stelté:lí ? (mémele. čékyel) 'I saw your (daughters, hens).': li ?i. sel tel 'Is my mother there (sic here)?', li h'eléx sel tèl 'Is my mother (at) home?', liyə skwətexw sə Mary 'Is Mary inside?'; cəl k, wécləx k k sɛ (sí·sələ, stá·ləs, sx emlí·k. sti wel) 'I saw your (grandmother, wife, aunt, neice).', (CT) kwsel si.selt.t 'my deceased grandmother': słć·lí (k,W)00 méles 'her/his child is a girl', lémcel k'"00 scí yé to 'I'm going to the strawberry patch.

\*\* means 'human, gender unspecified, absent'; it is attested in 17 examples (AG and EB) but only before proper names. Some of the examples are:

mey(-0áx<sup>y</sup>os, -tálx<sup>w</sup>os, -0àm, -tàlòm)-ce \*\* Bill

wox<sup>w</sup>o?f·s 'Bill will help (me, us, you, you folks)

when he gets here.', le ?emót k'<sup>w</sup>o Albert stotís

\*\*o Amy 'Albert sat beside (near/next to) Amy.',

le 0fytos \*\*o Oliver Wells qe Casey Wells to sq<sup>w</sup>61tols

\*\*o Daniel Milo qe Bob Joe lí to machines to \*\*elftem

'Oliver Wells and Casey Wells made the voices of Daniel Milo and Bob Joe on the white man's machines.', k'á te 0£ les 'iléqeltes k' Bill te sqwemf·y 'That's what Bill bought for the dog.', mfyeáxyes k' Bill 'Bill (absent, even if in next room) helped me.', mfyeáxyes k' Mflf 'Mary (absent, even if in next room) helped me.', mfyeáxyes k' Mflf 'Mary (absent) helped you.'

ye means 'human, gender unspecified, plural' but in a few cases may be used with non-humans. It is apparently used quite sporadically. Sometimes it appears as yi, and sometimes as ye with stress at a higher pitch than any high stress on the following nominal (a feature shared with the other articles, see Chapter 1, section 1.2.19). Examples include: q'apéCat ya x dlmax the Indians gathered'. ofl yf xwalmaxw 'bad people, the people are bad' (Indian people but at a time before other races were known, therefore also 'people'), toq'ot xot'o yo x blmbx the (Indian) people used to say, xét'estex wes ye x welitem "cave" 'White people call it "cave".', (NP) li.m ye slellf.li 'the women are picking (berries)', qex ye qwf.1 'lots of mosquitoes', ye li.k, k, w k, we Kamloops 'some (people) from Kamloops', ?esu lèm ye lf.k, w 'and so a few (people) came',

s?i.k. wyo k. f.lès 'several people were lost (and presumed dead)' (EB), yi 66 ~ yo 66 'those people, them' (see 9.3), méyt yi 66 (or yo 66) 'help those people', lfcx k. wéclex (yi66, yi ?i.mex)' 'Did you see (them, them walking (those people))?', yuk. iem 'they, them (gender unspecified)' (see 9.6)(contrast ?6. ttol 'they, them (known to speaker)(gender unspecified)'), q6x yi ?á. ytel 'many people fighting', ?6. yo qwáqwel 'the speeches/talking went on (and on)', (EB) le q. plax swiyá00 kwsu háléms ye mímete 'He got me addicted to always going to spirit dances.'. (From the examples seen it appears yi may be an allomorph before words beginning with /?/ and in free variation with ye before 66.)

Before presenting some final examples contrasting the articles, a few more comments should be made
about some uses of articles in general. Articles are
seldom fully translated, especially in regard to
proximity and visibility. They are not translated
at all before proper names. Before nominals inflected by possessive pronouns the sex reference is translated when it is not redundant (tel sfile 'my grandfather'), but the proximity is usually just implied,
and of course an English article cannot be used (\*'the
my grandfather'). Similarly in constructing numerals

over ten and not even multiples of ten, the articles are required but are not translated (?ápel qɛs te ?isɛ́·le - ?ápel qɛs k; we ?isɛ́·le 'twelve', etc.); it is not clear yet whether they retain any implications of proximity (see Chapter 10). Hours are felt to be nominals and so are nominalized by s- and require an untranslated article (te s-£ſxw-s 'three o'clock').

k, we is the article used to nominalize (relativize) verb phrases and sentences (which are probably considered abstract or not visible). But rarely to can be used also, perhaps when there is a concrete object or person which is present and visible which the verb phrase is semantically equivalent to:

0.46.0 eqwets to q.£q.et.em 'he's sucking something sweet'

stém to 'f':x" Oé'yt 'What are you making?' (cp. tewét k;" o 'f':x" Oé'yəlcet te swéltel 'Who are you making the net for?')

stém to ?f·xw kwelét 'What is it you're holding?'

(cp. tewét swíyege kwe ?fxw sé·wq't 'What man are
you looking for?', k'á· k'wel méle kwe ?fxw hé·yet

'Is that my child you're talking about?', k'á kwe
xwk'á·qtes 'That's the one with a long face.', and
cel k'wéclexw kwe lul lém 'I saw the one who went.')

(Notice how the syntactic structure differs when it is the object from when it is the subject of the subordinate verb that is nominalized/relatived:

main verb k; \*\*e/te(-4.8) verb = subject of subordinate verb is relativized/nominalized

main verb k; \*\*e/te lf.\*/?f.(-4.9b) verb = object of subordinate verb is relativized/nominalized.

The second construction however is only in questions. See syntax chapter.)

qiq'etes te 'fi ls k'i'w 'He caught the one who escaped.'

kWakWelxyes te sqf.1s 'He's hiding what he stole.'
cel tatf.1t ts sqWe.1 'I'm thinking of what you said
(your words).'

Another point that might be mentioned here is that adjectival verbs can modify nominals in the following order: article adj.verb nominal. This means that articles can precede adjectival verbs; however the adjectival verb is never inflected for subject or tense in this position — it behaves more like a traditional English adjective. For example: to hfk spée 'a big bear', to hfk x x to example: to hfk spée 'a big bear', to hfk x x to example: 'a big heavy person', to q61 sq'aq'oy 'a bad sickness', eo 'iyá mex' ské'lf 'the good-looking woman', sk'f'cet k'w q6x télo 'We want lots of money.'

## Contrastive examples of demonstrative articles:

- liye sk<sup>w</sup>ətéx<sup>w</sup> k<sup>w</sup>es swiyeqe ?s méle 'Is your son inside?'
- live skwetexw se Mary 'Is Mary inside?'
- 2. me stetis kwee yewe'l 'He came close to the first.'
- cel λ'f·ls tel (mél, swéqeθ) 'I love my (father, husband).'
- cel k'f'ls Gel (tél, stá'les, q'é'mi) 'I love my (mother, wife, girlfriend).'
- 4. cel k; "éclex" te (mémeles te spéée, swéleqees)
  'I saw the (bear's children, husbands).'
- cel k'"sclex" ee (steltá·les, słéli spé·e, słéli ?ɛ
  stí·wel, słelłé·lí ?ɛ mśmele, słelłélí ?ɛ čśkyel)
  'I saw (the wives, a female bear, your neice, your
  daughters, your hens).'
- cel k''éclex' k''es (sí:le, swéqee, k''iyá:s, sx''enlê:lek'', selsí:le, mémele, statí:wel) 'I saw your (grandfather, husband, uncle (ceremonial usage), parent's siblings, grandparents, children, sibling's children).'
- cel k, weclex k, k, se (sf. sele, stá. les, sx, emlf. k, stí. wel) 'I saw your (grandmother, wife, aunt, neice).'
- 5. cel słég'elex<sup>W</sup> (te sí·le, k<sup>W</sup>ee sí·le, te mémele, es stá·les) 'I know your (grandfather (present),

- grandfather (absent), children (present or absent), wife (present or absent)).'
- 6. ?f. lcel li k, we sc, elx wiyed "I was at Chilliwack."
- cel ?f. te sc'elx fyeq 'I'm here at Chilliwack.'
- 7. le  $x^W$ elém te Agassiz 'He went to Agassiz instead (speaker is at Agassiz).'
- le x welfm k we Agassiz 'He went to Agassiz instead (Agassiz is far away).'
- 8. le x cák el k; Mary 'Where is Mary going? (she's not here) '
- le x wcák wel ee Mary 'Where is Mary going? (she's here with speaker)'
- 9. msyear es h' (Bill, Mélf) '(Bill, Mary), absent even if in next room, helped me.'
- mey0áx os (te Bill, 00 Mélf) '(Bill, Mary), present, helped me.'
- 10. 16m k, we (cúcu, ?shíw) 'go (toward the water, upstream)'
- 9.2. Demonstrative Conjunctions. There are several conjunctions derived from the m.r. demonstrative articles k; we and kw(e). All of them end with an -s which nominalizes the phrase that follows and is related to the s- nominalizer; all of them use pronoun set 4.8 to express the personal pronoun subject of the verb phrase nominalized. So the verb

phrase is first nominalized, then possessed by its subject pronoun. The  $k^{,W}$  forms alternate freely with  $k^{,W}$  forms in the third person. In addition the  $k^{,W}$  forms (which seem to occur only in the third person) have another free variant,  $k^{,W}$ ses, with the possessive pronoun -s attached to the conjunction after the -s nominalizer, instead of being suffixed to the verb following the conjunction. This produces the following set:

lst person sg. k; w=-1-s 'that I'

2nd person sg. k; w=s-s 'that you'

3rd person k; w=-s \_-s \_f kws \_\_-s \_f kws\*s

'that he/she/it/they'

lst person pl. k'\*-s \_\_\_\_cet 'that we'

2nd person pl. k'\*-s-s \_\_\_-elep 'that you folks'

The demonstrative conjunction 'because' is formed by
prefixing k'a- or k'e- to the above set (k'ak'\*els,
k'ak'\*s, k'ak'\*ses, etc.).

The set glossed above as 'that I', etc. really has many glosses depending on the English syntax of the translation: 'that, to (infinitive), for, when (simultaneous), while, as' and sometimes not translated at all (especially after adverbial Vi's). (The 'when' is simultaneous, not conditional like that of we- 'subjunctive'; it is more synonymous with 'while'

- or 'as'.) Besides the examples below, examples can be found in 4.8.
- 1. cel ?£clex k, wes q'£ ylex es to swiyeqe to sp£.0

  'I heard that the man killed a bear.'
- ?awétal słéq'alex k, was q'épsca k, wa ?f.k, wala 'I didn't know there was going to be a gathering here.'
- sk, we've's to a see it was you.
- 2. li ?s sh'i k' s x wiyéeqeeáx 'Do you want to interpret for me? ("Is it your wish that you interpret me?")'
- scewát  $k^{W}\theta$ el mél  $k^{\phi}W$ es  $k^{W}\delta l\delta x^{V}s$  'My father knows how to shoot.'
- le ?f.weseáxyos k; wels t'f.cem 'He showed me how to
- 3. le siwelme@àx es k; els le témet 'He heard (sensed) me when I hollered at him.'
- licx we'fy ?el qwaqwel k'wes me[s] kwetxwilem to xwelftem 'were you still talking softly when the white man came in?'
- 4. wiyáð k' s ?í wálems to sté x s k, t'ít'elem k' s ?í wálems 'The children are always playing, singing as they're playing.'
- 5. wiyá0 k'Wes łóx Wełcss 'He's always spitting.' sk'Wé·y k'Wes k'Wéclex Cet 'We can't see it.'

- sk, we'y k, wes k, we'clex elep 'You folks can't see it.'
- If ?iyá·lem k; wels k; weclex li to 06 'Can I see it from there (in that place)?'
- s(a)lé k; wes q'éyset to x véylem q'éyset to x véylem k' ves s(a)lé 'tie the rope tight' (no subject)
- 6. cel słéq'elex kwses spée ~ cel słéq'elex kws spées 'I know it was a bear.'
- (EB) (a)1 sq<sup>W</sup>£lewel k<sup>W</sup>s mes lémex<sup>W</sup> tlàw£y61 'I think it's going (lit. "coming") to rain today.'
- (EB) lscx cesf.t kws lss kw61.em kws261tel 'Send him to get food!'
- (EB) fice k, we la k s q'elément 'This is where we'll camp., It will be here that we camp.'
- 7. le há·k<sup>W</sup>ex<sup>y</sup>es 0el tè·l te x<sup>W</sup>éylem k<sup>W</sup>ses p'ewfytes tel s'f·0'em 'My mother used the thread to patch up my dress.'
- témex<sup>W</sup> k<sup>W</sup>ses wet háy te sléx<sup>W</sup>ets 'It rained when their cance was done (completed).'
- xwelméxwqel kwses qwaqwel 'he's speaking in Indian' (cel xwelméxwqel 'I spoke Indian, I spoke in the Indian language')

- temtém kwses lém 'When did he go?'
- k'asésu tsá·s k<sup>w</sup>ses q'áy θe stá·les 'and so he was heartbroken/he felt really bad when his wife died'
- $x^{W}$ lis  $x^{W}$ ses célq te qá· 'where (it is that) the water is falling'
  - c'i·tcel mók' yuk'álem k ses 'i·weseax' es x elé m te sx elméx et s'i·wes 'I thank them all for teaching me about (toward) the Indian way of teachings.'
  - cel x lele met te siyalex e k ses t'i lent te swes
    syuwel 'I listened to the old man (or old person)
    sing his (own) spirit song.'
  - 8. lacel t'4·k' \* \* ak ses of k' tel tele 'I'm going home because my money ran out.'
  - (The remaining examples in number 8 here are from Mamie Cooper and Susan (Malloway) Jimmie, both speakers of Chilliwack Halkomelem originally from Sardis but now living near Deming, Washington.)
  - lscel 'f'yel (k'ek' wels, k'ek' wes, k'ek' ses) 'e t'ft'iyeq' 'I left because (I was, you were, he was) mad.'
  - cet 1s (or 1scet) ?f.yel h?ekwcet t?ft;iyeq; 'We left because we were mad.'
  - cap la (or lacap) ?&.yal & akwselep t'&t'iyaq' 'You folks left because you were mad.'
  - le ?&.yel ?&.ltel x.ek ses t.&t.iyeq. 'They left

because they were mad.'

- 0. xW?ft k; Wes ?6we lixW lem 'Why didn't you go?'
- A. k'akwsəs léməxw 'Because it was raining.'
- O. stem k, we t'st'iyeq'emetex 'What are you mad at?'
- A. h'ak' ss qf. lseaxy tel swiwe 'Because you stole
  my oolicans (eulachons).'

## 9.3. Nominal Demonstratives.

- te ?i.le 'this thing here, this one, this'
- te là 'this (person here), this' (> tlà- or tlá- with temporal words)
- 00 là 'this (female person here)'
- $k^{*W_0}$  là 'this (abstract thing, manner or place), here (after mf 'come')'
- to  $\Theta \mathcal{E}$  (EB often has  $[t^{\dagger}\Theta \mathcal{E}]$ ) 'that thing there, that one (usually inanimate)'
- $k^{W}\theta$   $\theta \mathcal{E}$  or  $k^{W}\theta \mathcal{E}$  'that person (near, perhaps visible)'
- ve θέ ~ yi θέ 'those people (there), them (human)'
- te lif 'that one (yonder), that one over there (probably inanimate)'

From the articles present and the nominal translations it is easy to see why the above are called nominal demonstratives. They are used as nominal subjects and objects of verbs; occasionally they are used as adjectives syntactically, but then nominals can be so used anyway ( $\Thetaesterminate states states and states are states and states are states as a state of the states are states are states as a state of the states are st$ 

bear'. etc. -- see syntax). The core of these expressions seems to be a small group of demonstrative words: ?i.le, là, 06 and li. tí. Only li. tí 'over there' can appear without a demonstrative article (see 9.4), though all four words (without the articles) seem somewhat like Vady's or Vals and both li. tf and ?i.le seem to derive from demonstrative verbs (?f. 'be here' and lf. 'be there'). It may be less difficult to account for the demonstrative words separate from the articles when more examples are obtained: right now it is difficult to explain why to ?fole, to OE, and probably to lie ti are inanimate and to la is animate: with more examples too perhaps all the articles would turn up before each of the four demonstrative words. At present it seems safest to treat (article + demonstrative word) in these cases as a single unit, a nominal demonstrative.

## Examples:

- 1. tewét te 'f'le 'Who owns this?, Whose is this?', el sk'f te 'f'le 'This is the one I want.', k'á te 'f'le 'It's this one., That's this one.', stém k'We sk''fx''s te 'f'le 'What do you call this?, What is the name of this thing?', stém te 'f'le 'What's this?', tewét k'We efyt te 'f'le 'Who made this?'
  - 2. to là swiyeqe 'this man', to là mostiyex" 'this

person', to là 'he's here (present)', %'é. 's mélo to là 'Is that your child there (present + visible)?'
('that' probably sic for 'this'), tlaqé.ys 'right now (this moment)', tla xwolé.lt 'tonight, this evening', tlawéyél ~ tlawéyèl 'today (this day)'

3. 00 là shé-lí 'this woman (near the speaker)', h'á-00 là shé-lí 'Is it this woman? (pointing)'

4. le xét'estxwes k'we là 1f te sqelxwé:les 'He was doing this in his throat (sticking a twig down it', Q. How do you pick hops? A. xét'estxwes k'we là 'One does like this (gesturing).' (in both sentences so far xét'estxwes is I believe an error for xtéstxwes 'he does s-th'), (EB) st'é k'we là 'like this' (vs. st'é te eé 'like that'), (EB) \(\frac{\pi}{2}\) \(\frac{\pi}

5. (EB) st'é t(e) 0 'like that', léltel to 0 'that's a bailer', \( \alpha' \) to 0 'Is that the one?', \( \alpha' \) to 0 'That's the one.', (EB) \( \alpha' \) to 0 \( \alpha' \) to 0 \( \alpha' \) Bill to sq \( \alpha \) "That's what Bill bought for the dog.', (AC) \( \alpha' \) to 0 \( \alpha' \) to 0 \( \alpha' \) to 0 \( \alpha' \) to 1 sq \( \alpha' \) where \( \alpha' \) to 1 sq \( \alpha' \) where \( \alpha' \) is that the one (a cow) that was chas-

ing after my dog?', stém to 06 'What's that (visible)?', smé·lt to 06 'That's a rock.', to 06 lí·tí 'that thing yonder', qéx to téles to 06 swíyeqe 'That man has lots of money.'

- 6. \( \frac{k}{k} \) \( \text{of 'It's him (right out there, visible?)', } \) \( \frac{k}{4} \) \( \frac{k}{W} \) \( \text{of 'Is that the one?', } \) \( \frac{k}{W} \) \( \text{of 'Inat's the one.', } \) \( \text{stém } \( \frac{k}{W} \) \( \text{of 'What's that?'} \) \( \text{the context given for this is "you've got a fish caught in front of you" (near but invisible?)), \( \frac{k}{W} \) \( \text{of 'that's him (a person)' (cp. to \( \text{of 'that's it (a thing)'}) \) \)
- 7. le xwehiwel yi 06 'Those people are going upstream.', h'á ye 06 'that's them (if you see them)', yuh'á·lem ye 06 'That's them there.', méyt ye 06 'help them (those people)', h'á téls yi 06 'That's their mother.', stetís yi 06 'She's near/close to them.', lícxw k'wéclexw yi 06 'Did you see them?'
- 8. to li ti 'that's the one, that one over there (motioning)', stém to li tí c'ic'esem 'What's that growing (over there)?'

#### 9.4. Adverbial Demonstratives.

of k, walk and of k, walk?

If k'& là 'way over there'

If to 06 'there (close), over there, in that place'

If k'\*a 06 (EB If k\*o 06) 'there (distant)'

- ti 'over there' (?)
- ?f. ti 'over here'
- li. ti 'over there'

possibly it is 'over there, around there' (?)

'f. 'be here' and li.' be there' belong here too but

have already been considered as verbs (see 6.2.7).

Adverbial demonstratives modify verbs and can be conjugated like adverbial Vi's (by inflecting the demonstrative verbs they contain, ?f. and lf.). They are compounded mostly of verbs ?i(.) and li(.). followed by the nominal demonstratives (9.3); an exception to such derivation is ti which seems to be adverbial on its cwn account as well as in combination with ?f. and li. Another exception may be lí k'á là because k'á, though demonstrative, is not a demonstrative article, and k'á là is not independently attested as a nominal demonstrative. It is interesting that combinations like \*?f. to la. \*li. k, We là, \*li. to ti, etc. have not been attested. With adverbial demonstratives the articles do not always express proximity in the same way as they do with nominals (the use of k, we 'distant' with ?f. k, We là or ?f.k, Welà 'here' is a case in point). At any rate, adverbial demonstratives behave as adverbial phrases and are so positioned syntactically too.

Examples:

- 2. ?f.cs ktw a là kws q'alémcet 'It will be here that we camp., This is where we'll make camp.', ?fcel ?à ktw a là 'I'm staying right here.' ('à ~ ?ò ~ ?el 'just'), ?f.celcs ?ò ktw a là qe xwe?f.cexwcs 'I'll stay right here till you get here.', ?f.celcs ?ò ktw a là qe téscs ?ò to sléc'es 'I'll be here till one o'clock.'. But ?fktw alà to sc'árktw als 'This is a fork. (sic? 'The fork is here.') and ?fktw ala lêlem 'this house'; the latter seems ungrammatical (probably an error), and the former was probably a mistranslation.

- 3. No examples was obtained of 1f h'á là in a sentence, just a citation as 'way over there'.
- 4. If to 66 'over there, there close' (cp. 11. tf 'there (a little farther), yonder, over there', and 1f k'\*0 66 'there (far away)'), lec'6.mex\* 1f to 86, lec'6.mex\* 1f k'\*0 66 'a different tribe here (lit. 'there (near)'), a different tribe there (far)', ?1.tcol 1f to 86 'I was there.', cel mélaeles lis k'\*1 swéyel k\*ses sk\*etéx\* If to 66 yux'á·lem 'I've forgotten how many days they were inside there.', li ?iyá·lem k'\*ols k'\*6clex\* 1f to 86 'Can I see it from there (in that place)?'
- 5. See 4. above for examples of 11 ktw 06. EB has 11 kw 06 as follows: li kw 06 tlagé ys 'He's there now (speaker at Sardis, subject at Seabird Island, 20 miles away or so and not visible', li kw 06 kw ses k 06 kw 'He's living there.', tewét k 'We 11 kw 06 'Who's there?' (and cp. li to cákw 'way far, far away' and toli k 'Wo cákw 'from far away')
  - 6. le hél em tí 'They're on their way there.'
  - 7. cel %f. tf 'I'm over here.'
- 8. cel lí·tí 'I'm over there' (farther than lí te 0£, close than lí te cák<sup>W</sup>), le lí·tí 'It's over there., He's over there., etc.', líye tí 'Is it over there?', te 0£ lí·tí 'that thing yonder', ?f·\u00e4cex<sup>W</sup>

li ti 'you were (over) there', 'i teex li ti k' ss t'it'elem 'You were (over) there singing.', le q'eq'ip li ti 'They're together over there.', li ti te sc'électel 'The chair's over there.'

9. mecx w xeté·tí 'come around there!', xeté·tí 'over there' (cp. x 'ft k ses xté t(e) eé 'Why did he do that?' which implies that xté means 'do', cp. also xtéstex s 'he did s-th').

9.5. \*\*\* 'that's \_\_\_, it's/he's/she's \_\_'.

This word is used to refer to animate things according to EB but even in her speech is sometimes used to refer to inanimate things. This seems true of AC and NP as well. In the semantic frame, 'That's a bailer.', \footnote{160} tell to 06 must be used and \*\*\* if to \footnote{160} tell is not allowed. But at the same time, \*\* if to 06 that's the one, it's that one (inanimate)' and similar phrases are allowed, and \*\* if seems to conjoin abstract concepts and verb phrases as well (see chapter on particles). In addition to such examples, the following are typical examples, and show the kind of verbal demonstrative character which \*\* if has:

k'á sélk'a 'that's/he's/she's the older (sibling)'
k'á sáseq<sup>W</sup>t 'that's/he's/she's the younger (sibling)'
k'á sék'stels 'that's her older sister'
k'á téls yi θέ 'that's their mother'

λ'á °ε swé 'that's yours'

a flv)

k'á ('& swé, '& swé'elép, s'ái) tél 'that's (your, you folks's, our) mother'

k'á tứ k'à 'that's him, it's him'

h:&1 (s6x'stel, sqf.q, stá.les) 'that's my (older sibling, younger sibling, wife)'

k'á 'fi memíyet 'that's the one that was helping s-o'
k'á to s'eyí wcos 'it's his right hand'
k'á to (Bill, músmos, x wex kyo) 'that's (Bill, a cow,

Notice that h'á is always first in a sentence, and that it can allow the demonstrative article to be omitted before following nominals. h'á can receive possessive pronoun inflection for the following nominal. Other examples have been given of h'á inflected for future tense as well (h'ács Bill 'it will be Bill').

9.6. Pronominal Demonstratives (or Demonstrative Pronouns). These words function as independent pronouns (several have been discussed already in 4.3 and in 8.5). Some of the less common ones are added here, showing inflections for 'absent', for 'deceased', and for 'diminutive'. I have not obtained any of these less common types in sentences, but I think they can be presumed to function syntactically like the more common ones, túch'à, cúch'à, yuh'á-lem, tuh'álem and Guh'álem. They

are listed as demonstratives or demonstrative because they change their demonstrative article prefixes (or roots?) to reflect sex gender, proximity and number. They begin with demonstrative articles which have their  $e \to ti \omega$  (u in plural forms); these articles are prefixed to demonstrative root  $k^3a - k^3a$ . In the plural and diminutive a final -m is added as part of the root, and then the plural infix -le- - -el- is added, or diminutive reduplication -R<sub>1</sub>- is added, or both. The past (deceased) forms are suffixed with -le- - -el past tense suffix. AC readily produced all these forms, but I suspect they are reserved for formal usage (perhaps in speeches or texts) rather than being used in normal conversation.

	m.	f.	h.pl.
sg.	tú‰ ³à	Oden, 'à	
pl.	tuk'álem	Ouk'álem	yuk'á(·)1əm
absent	k <sup>₩</sup> θú•λ•à	k <sup>₩</sup> sú•λ•à	k <sup>₩</sup> θú•λ'àl≎m
deceased	k' <sup>₩</sup> ú·λ'à·±	k <sup>W</sup> sú•⊁•à•±	k <sup>W</sup> ⊖ú•⊁°à•lòmò±
diminutive	tú•k'àk'əm	(?)	λ'6λ'elà•m
(also diminutive pl. (m.?) tuk'ak'elà·m)			
These are translated:			
túch'à 'that's him, he, him'			
θύωλ'à 'that's her, she, her'			
tuk'alem 'that's them (male), they (male), them (male)'			

kids' (not used much says AC)
tuk'&h'elà·m 'that's them (little ones)(male?)'

#### CHAPTER 10. NUMERALS

10.0. Introduction. The paragraph on numerals in Chapter 3 (pp. 134-135) serves as the best introduction to Halkomelem numerals and should be reread at this point. The lexical suffixes added to numerals as classifiers have been discussed, with their distributions, in 5.2.2 (pp. 190-194). Morphophonemic changes are numerous in the stems and even in some of the suffixes of numerals. Most have been mentioned in the morphophonemics chapter: stress shift (2.3.3.3), vowel deletion (2.3.3.4), ablaut (2.3.4)( $\varepsilon \rightarrow 0$ ,  $\acute{e} \rightarrow \acute{a} \cdot , \ a \rightarrow \acute{a} \cdot , \ \acute{i} \cdot \rightarrow \ a, \ \acute{a} \cdot \rightarrow \ a, \ \text{some of it}$ triggered by specific lexical suffixes). ?-insertion (2.3.5.1), yowel combination (2.3.5.2), suffix allomorphy with vowel alternation (2.3.6). What remains in this chapter is to give the basic numeral system with analysis and derivation (10.1), the rules of allomorphy of the numeral roots when affixed (10.2). and samples of the sets of numerals for illustration.

10.1. The Easic Numeral System. The basic system could be called cardinal numbers, if there is any use for such a term here, or perhaps better, unclassified numerals. These are the numerals which are used to refer to anything not covered by the numeral classifier lexical affixes. Thus this set contains the

unmarked forms, used to refer to animals, mountains, leaves, days, years, etc.; these forms can even be used to refer to classified things like houses, garments, etc. when the nominal for house, garment, etc. follows or when a person wants to be less specific or emphatic. This is typical of unmarked forms. These forms also contain the base forms which yield the allomorphs and input to the morphophonemic rules. lácia tone! ?isé·le 'two' +f.xW ~ lfxW 'three' xə?á0əl ~ xə?á.0əl 'four'  $\pm(e)q^* \cdot ces$  'five' (<  $\pm(e)q^* \cdot ces$  'be wide'. -ces '(in) the hand') t'xém 'six' (probably < the root in s-t'ex-léc 'fork in a tree, fork at the bottom' and t'x-50et 'forks in a stream') e'á·k<sup>W</sup>s 'seven' tenérce 'eight' (possibly related to tenért 'close s-th') ±ນໂ∘x<sup>W</sup> 'nine' ?á·pel ~ ?ápel 'ten' Oem- is a root for 'two' which appears in Oemé 'twice, two times' and seemelts 'Tuesday'

mos is a root which appears in the Tait dialect of SP

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and AD, but only in s-mos, a rare alternate form
  for sxe?a(.)Gels 'Thursday': SP and AD reported
  that their parents used smos for 'Thursday' some-
  times).
?apal qss ta/k, Wa lac's 'eleven' (ten and the one)
?anel ges te/k, we ?isé le 'twelve' (ten and the two)
   etc. 'thirteen' through 'nineteen'
c'k' sxy 'twenty' (possibly c'- lexical prefix +
  k, wexy- 'count': the word for 'number' is
   s-k, wexy-f.m. from the same root)
c'k' sy ges te/k' a léc'a 'twenty-one'
   etc. 'twenty-two' through 'twenty-nine'
+axWelsxy 130'
±ex welsx y € des te/k, we lec'e '31', etc.
xà0elsxy (40'
xè0elsxyé ges te/k, b léc'e '41', etc.
+dg'acalsxy (~ (NP) +g'acalsxy () '50'
+an'ecelsxy gas te/k, we léc'e '51', etc.
t'xèmelsxy (~ (NP) t'xèmelsxy () '60'
t'xèməlsxyé qes tə/k' e léc'e '61'
e'akWecelsxyé '70'
0'èk ecelsx é as te/k'e léc'e '71'
tagecelsxy 180'
tègecelsxyé gas te/k, we léc'e '81'
th·xWelsxye '90'
th·xwelsxy e ass te/k, we lec'e '91'
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lé·c'ewec '100' (< lé·c' 'different', -ewec 'in the back')

lf.c.awec ges te/k, we lfc.a '101', etc. lf.c.awec ges te tû·x welsx y ges te tú·x '199'

etc. '300' through '900' 'apel kws l&\*c'ewec '1000'

The system is a decimal system. Traces of a quaternary system can be seen in the facts that 'one' through 'four' are not analyzable at present but 'five', 'six', and 'eight' can be derived, and that 'eight' may signify a 'closing' from its derivation and since it is two cycles of four, the sacred number. (Things are often done four times in religious ceremonies, etc.) Many of the most fluent speakers could not count much above ten in Halkomelem; I believe this reflects the pre-contact situation too, since q6x was and is used to replace any higher numbers the person does not know or doesn't want to specify; q6x 'many, lots' is especially used (even by those who know the forms) to replace classified numbers over 40 people, over five times, etc.

The use of qss is explained in the chapter on particles (see section on conjunctions). The use of te or  $k^{*W}$ e has been explained in the chapter on

demonstratives (see demonstrative articles). The function of k<sup>W</sup>s in '1000' is unclear but it looks like a demonstrative (q.v.). It is also unclear why 'twenty' has the form and root it does (instead of ?is£·le or 00m-).

### 10.2. Allomorphy of Numeral Roots.

3. lf·x → lx<sup>W</sup>/ \_\_-v ... (but not before -má·t) (related to rule 2.3.3.4; perhaps all that's needed here instead of rule 3 is a statement that lix<sup>W</sup>má·t is an exception to rule 2.3.3.4)

4. 
$$x \circ f(\cdot) \circ 1 \rightarrow x \circ f(\cdot) - f(\cdot) -$$

5. 
$$\theta' \acute{a} \cdot k^W s \rightarrow \theta' \circ k^W \circ c / __- \circ l s x^{y} \acute{e}$$
  
 $\rightarrow \theta' \circ k^W s / __- \circ l \circ , - \circ l$ 

7. 
$$c'k'^w ex^y \rightarrow c'k'^w x^y \epsilon / __- - \epsilon le$$
, -es

8. əl, əs 
$$\rightarrow$$
 Ø/ \_\_-əls $x^y$ £, -£lə

10. 
$$\#C(C)V \rightarrow \#C(C)V/$$
 \_\_-elsx $^{y}$  (in addition to

unrounded vowel  $\rightarrow$  e/\_\_-elsx $^{y}$  (see rule 5, p. 83, under ablaut triggering))

(Two additional rules are needed for affix allomorphy not involving vowel alternation and not mentioned in 2.3.6:

11. -£1e 'people'  $\rightarrow \mathbb{R}_{12}$  'person'/ 16c'e\_\_\_\_

12. -£1 'times'  $\rightarrow -£x^{W}/$  16c'e\_\_\_  $\rightarrow -£/$  0em\_\_\_)

10.3. Numeral sets with lexical affixes (or classifiers). The lexical affixes for these sets include: -es 'dollars', -éle 'people', s- -s 'o'clock', s- -s 'day of the week', -ówes 'canoe paddles, paddlers', -él 'times', -íq 'fish (heads)', -elsx 'é 'times ten, -ty', -elp 'trees', -má·t 'piles', -élwet 'garments', -é·wtx 'houses', -ówel 'canoes', -éyiws 'pants', -á·ls 'spherical objects, fruit', -eqel 'containers', -á·ll 'young', -é·ltex 'wives', -émec' 'poles, upright', possibly -í·ws 'birds'.

Counting dollars: léc'es 'one dollar', ?isá·les
'two dollars', £f·x<sup>w</sup>es 'three dollars', ‡efíles 'four
dollars', ±eq'á·ces 'five dollars', t'xémés 'six dollars', e'ák<sup>w</sup>es 'seven dollars', tqá·cá·s 'eight dollars', tú·x<sup>w</sup>es 'nine dollars', ?epá·les 'ten dollars',
?epá·les qɛs k'<sup>w</sup>e léc'es 'eleven dollars', c'k'<sup>w</sup>r<sup>y</sup>á·s
- c'ek'<sup>w</sup>x<sup>y</sup>á·s 'twenty dollars', £ex<sup>w</sup>elsx<sup>y</sup>á·s 'thirty

dollars', x300lsxyá·s 'forty dollars', lagocelsxyá·s 'fifty dollars', t'xèmelsxya's 'sixty dollars', e'akwacalsxya.s 'seventy dollars'. taqacalsxya.s 'eighty dollars', tù x welsx y a . ninety dollars', léc'ewec 'one hundred dollars', xe?á0el léc'ewec 'four hundred dollars'. The count of cents is also interesting: ck f.m téle 'penny' (literally "red money", téle 'money' < English "dollar" via Chinook Jargon), léce ckwf.m téle 'one penny'. ?isé.le ckwf.m téle 'two pennies, two cents', ck ék eli m téle 'lots of pennies' (lots of little red money). Eikmel tele 'silver money' (číkmel 'iron, silver' < Chinook Jargon)(cp. léc'es pipe têle 'one paper dollar'), mi t 'dime, ten cents' (< Chinook Jargon < English "bit" in "two bits"), 1seq mf.t 'a nickle, five cents' (lit. "half dime"), mf t dss k, "a lseq' mf t 'fifteen cents', ?isé·le mí·t 'twenty cents', lí·x mí·t 'thirty cents', etc., and kwa·te 'quarter, twenty-five cents' (< English "quarter").

Counting people: lálec'e 'one person', yéysele
'two people', kx\*éle 'three people', xeéfle 'four
people', kq'écéle 'five people', t'xémele 'six people',
e'ek\*séle 'seven people', teqécéle - teqéce?éle 'eight
people', tux\*éle 'nine people', ?epéle 'ten people',
?epéle qes te lálec'e 'eleven people', c'ek'\*xy\*éle

'twenty people', \(\frac{1}{2}\text{N}^\vert \) le 'thirty people', \(\frac{1}{2}\text{N}^\vert \) le 'forty people', \(\frac{1}{2}\text{N}^\vert \) le 'sixty people', \(\frac{1}{2}\text{N}^\vert \) le 'sixty people', \(\frac{1}{2}\text{N}^\vert \) le 'sixty people', \(\frac{1}{2}\text{N}^\vert \) le 'seventy people', \(\frac{1}{2}\text{N}^\vert \) le 'le 'ninety people', \(\frac{1}{2}\text{N}^\vert \) le 'c'ewec' one hundred people'.

Counting hours: (all nominals preceded by demonstrative article to or k, wa) to sloc os '1:00, one o'clock'. to ?isé les (s- unexplainably missing) '2:00', te sli·x s '3:00', te sxe '4:00'. te słeg'é ces '5:00', te st'xéms '6:00', te se'á kws '7:00', te steqé ces '8:00', te stú x s '9:00', te s?á·pels '10:00', te s?á·pels que te sléc'es ~ te sléms (root unclear) 'll:00', to s'á pels que to 'iséles '12:00' (also tex wsweyel 'mid-day. noon' and tex wslet 'midnight'). some people say the half hour and quarter hour were indicated respectively by qss to/k, we ±séq, ('and a half') and qss te/k; We kWa te ('and a quarter') but more people maintain that the most precise it ever got was vivelew to sti.xws 'a little after 3:00' and wec'imel to shi'x s'a little before 3:00, nearly 3:00'. There are no words for minutes or seconds.

Counting days of the week: yilf.wellt 'Monday'
("after day"), s0em61ts (or s0em61c) 'Tuesday',
slf.xws 'Wednesday', sx0.6.0els ~ (SP, AD) smos 'Thurs-

day', słq'éccs 'Friday', t'áq' tem ~ (Deming)
t'q' tem 'Saturday' ("broken (of rope or string)(on
purpose)"), szézełèt (AG) ~ szézełèt (CT, NF, etc.)
'Sunday' ("sacred day"). (Of the moons or months,
only one was named with a numeral, 'spáléstel 'July';
the new year began with the first sliver of moon
appearing after the black moon in October, thus making
the tenth moon begin in July). There is no word for

Counting cance paddles: (all of these forms are also used to refer to 'cance paddlers' as well)

lec'é·wes 'one paddle', ?islé·wes 'two paddles',

kx<sup>W</sup>ó·wes 'three paddles', xeelé·wes 'four paddles',

tq'écesó·wes 'five paddles', t'xemó·wes 'six paddles',

?epélowes 'ten paddles', ?epélowes qes te léc'e 'eleven paddles' (the number on the largest racing cance).

Counting times: lec'éx\* 'once', @em£ 'twice',

\( \frac{1}{2} \) three times', \( \frac{1}{2} \) four times', \( \frac{1}{2} \) four times', \( \frac{1}{2} \) for times',

\( \frac{1}{2} \) for times'.

Counting fish (probably dead ones, lit. counting heads): léc'e 'one (fish)', 'iselfq' 'two fish', lfx''eq' 'three fish', xe0fléq' 'four fish', lq'scesfq' 'five fish', t'xemfq' 'six fish', 9'ak''sfq' 'seven

fish', tequeofqW 'eight fish', tuxWfqW 'nine fish', 'Anel 'ten (fish)'.

-elsx isn't really a classifier at all since it has been attested with the 'dollars' and the 'people' classifier suffixes. Its forms have already been given in 10.1.

Counting trees: sléc'sip 'one tree', ?isé'ip s?isé'ip 'two trees', lx \*\*é'ip 'three trees', xseiyeip
'four trees' (note the same 1 -> y/ \_\_-eip operating here as with plant terms)(2.4.1), lq'sceséip
'five trees'.

Counting piles: lec'emá·t 'one pile', ?isślemá·t
'two piles', łix<sup>W</sup>má·t 'three piles', xe?á0elmá·t
'four piles', łq'ścesmá·t 'five piles'.

Counting garments: ?islélwet 'two garments',  $\pm x^W$ élwet 'three garments',  $\pm e^0$ écesélwet 'five garments'.

Counting houses of one person: 'islé·wtx' 'two houses (of one person)', \text{\text{k}}''\text{\text{k}}'' 'three houses (of one person)', \text{\text{k}}'' four houses (of one person)', \text{\text{k}}''\text{\text{k}}'' 'four houses (of one person)' (all Tait).

 objects, five fruit, (five rocks, five balls, etc.)'

\( \frac{1}{2} \cdot \cd

Ordinals: there are none; only yewé·1 'first', stetís 'next' and liyá·qWt 'last'.

(The numerical interrogative verb k, of:1 can be inflected with the same lexical suffixes; see the examples in 6.2.5, although they are verbs not numerals.)

#### CHAPTER 11. SYNTAX

11.0. Introduction. Considerable syntactic data (in the neighborhood of 700 sentences) and a moderate amount of syntactic analysis has already been given in the chapters on morphology (Chapters 3 through 10). Inflectional classes have been divided into syntactic classes. Some independent pronoun sets have been found to be syntactically nominal, some verbal, some either. Verbs have been divided into syntactic classes such as intransitive, transitive, adjectival, prepositional, adverbial, interrogative, auxiliary, etc. Particles were found to be syntactic interjections, conjunctions, and adverbials (modal particles are found in this chapter to be syntactically adverbial). Demonstratives were found to be syntactic articles, conjunctions, adverbials, nominals, pronouns which function like nominals, and semi-verbal &'á. Numerals were found to include syntactic adverbials. adjectivals, or nominals. In this chapter we will also see how nominals can be used as verbs and adjectives, as well as how verbs can be nominalized and relativized.

This chapter will deal first with syntactic classes and abbreviations (11.0), then with nominal phrases and how they are expanded (11.1). 11.2 deals with verb phrases and clauses and how VP's are expanded with subject and object NP's (11.2.1), how VP's are expanded with internal modifiers (11.2.2), how clauses and sentences are expanded with appositives and non-conjoined VP's (11.2.3), how clauses are expanded with dependent or subordinate VP's or clauses (11.2.4), how clauses are conjoined with co-ordinate conjunctions (11.2.5), and concludes with a discussion of comparatives and superlatives (11.2.6). 11.3 mentions interjections, and 11.4 discusses syntactic limits and how much phrases, clauses, and sentences can be expanded.

Syntactic classes, abbreviations, and cross references to syntactic information in the morphology:
Pron = pronoun (usually cited by number of the set)

Vpron = 4.1, 4.2, 4.7 (as Vaj)(verbal pronoun)

Npron = 4.3, 4.11, 4.7 (nominal pronoun)

-Pron = -4.4, -4.5, -4.6, -4.8, -4.9, -4.10 (pronoun suffix)(also shown as -S, -O, -Pass, -Foss)

-X = lexical affix (whether prefix, infix, or suffix)

(Chapter 5)

V = verb

Vi = intransitive verb

Vi plain = plain intransitive verb (6.2.1)

Vaj = adjectival verb (6.2.2)

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Vprep = prepositional verb (6.2.3)
      Vady = adverbial verb (6.2.4)
      Vneg = negative verb (6.2.4)
      Vq = interrogative verb (6.2.5, 6.1.7)
      Vpron = verbal pronoun or pronominal verb
         (6.2.6, 4.1, 4.2, 4.7)
      Vdem = demonstrative verb (6.2.7)
      Vaux = auxiliary verb (6.2.8)
      -Intr = intransitivizer (6.1.2.2)
   Vt = transitive verb
-S = subject suffix (4.4)
                                 S = subject NP
-0 = object suffix (4.5)
                                   O = object NP
                                     S3 = 3rd person sub-
-S<sub>3</sub> = 3rd person subject suffix
-S<sub>1,2</sub> = 1st or 2nd person sub-
                                     S<sub>1,2</sub> = lst or 2nd per-
son subject NP
(from 4.1 for ex.)
            ject suffix
-Spl = plural subject suffix
                                     Sn1 = plural subject NP
-S<sub>2pl</sub> = 2nd person plural sub-
                                     S<sub>2pl</sub> = 2nd person plu-
                                             ral subject NP
            ject suffix
-S ... S = subject corresponding in person + number
-S_c or -O_c = subject or object not corresponding in
                    person and number
similarly with -03, -01.2, -0p1, -02p1, -0c ... 0c
   and with 03, 01.2, 0p1, 02p1
-Pass = passive (4.10)
-Sbin = subjunctive (6.1.7, 4.9)
Other V inflections can be abbreviated as on p. 316
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P = particle
  Interj = particle interjection (7.1)
  Pconj = particle conjunction (7.2)
   Pmod = modal particle (7.3)
   Pady = adverbial particle (7.4)
N - nominal
   Nindef = indefinite nominal (8.1)
   -Poss = possessive inflection (8.2, 4.6)
   -Dim = diminutive inflection (8.3)
   -Pl = plural inflection (8.4)
   -Past = past tense inflection (8.5)
D = demonstrative
   A - demonstrative article (9.1)
      A-4.6 = article carrying possessive inflection
                 for following NP
      A-4.8-s = article carrying subordinate subject
                   inflection for following VP
   Dconj = demonstrative conjunction (including
              A-4.8-s)(9.2)
   A D = nominal demonstrative (9.3)
   Dady = adverbial demonstrative (9.4)
   ** = semi-verbal demonstrative ** (9.5)
   Doron = pronominal demonstrative or demonstrative
              pronoun (9.6, 4.3)
Num = numeral (Chapter 10)
NP = nominal phrase (see 11.1 below)
VP = verb phrase (see 11.2 below)
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### 11.1. Nominal Phrases (NP's).

11.1.0. NP's begin with a demonstrative article and end with something serving as a nominal. Unexpanded NP's include: A N, A D, A Num, A V, Dpron, Npron (4.3, 4.7, 4.11). With the pronouns the A is prefixed to the word in forming it, and so the A is not shown as a separate word. No examples of A P occur.

Except for 4.11 (which can only be object of a Vprep), all of these NP's can serve as subject or object of a verb without further modification. Syntactic position and agreement in person and number determine whether S or O is intended.

NP's are expanded by adding things either after the A or after the element serving as the nominal or after both.

11.1.1. NP Expansion With Modifiers. NP's which consist of A N can be expanded in a number of ways:

1. A (Vaj,N,D,Num) N (D is acting as N > Vaj; the first N and Num each are > Vaj. Also when a lower numeral (1, 2, or 3) modifies an N, the N need not be inflected for plural; the N is inflected for plural, if possible, after numerals 'four' and above.)

2. A (Vaj,D,Num)(Vaj,N) N (Note that an N acting as Vaj must immediately precede the original N of the NF,

also that the D must remain immediately following the A to retain its N > Vaj status; Num probably precedes N as well as Vaj before N. There are no examples of A Vaj Vaj Vaj N to date.)

- 3. A Vady Vaj N (In superlatives like: 1 sh'f to we'al c'sc'ic'eh' x "éylem. 'I want the shortest rope.'
  (AC), ee yeléwel 'iyá-mex' q'é-mi 'the prettiest girl', to yeléwel k'wamk' me swiyeqe 'the strongest man'.)
  4. A-4.6 N-4.6 (4.6 is shown attached to both A and N because it is suffixed to the word before the N or to the N or to both, depending on the person and number of the possessor.)
- 5. A N-4.6 N-4.6 and probably A (Vaj,D,Num)-4.6 N-4.6
   6. A 4.7 N (for emphasis of possession)
- 7. A N-4.6<sub>3</sub> A N (4.6<sub>3</sub> = 3rd person possessive -s. This construction is used to indicate when one A N (the first one) is possessed by another (the second). Apparently tewét and tewétestwe do not require -4.6 in this construction, and the A of the second N is then also omitted: tewét sqweméy 'Whose dog?' and tewétestwe sqweméy 'somebody's dog'.)
- 8. A N-4.6<sub>3</sub> A-4.6 N-4.6 (For example, to 1616m-s tol mè·l 'my father's house'.)
- 9. A N telf NP (Partitive, as in te lálec'e telf te swáweles 'one of the young men' or te lálec'e telf

\*'s+limet 'one of us'.)

If the NP begins as A V, other expansions are possible, but they are covered in 11.2 because such constructions are nominalized VP's (see especially 11.2.4). A more favored way of adding Vaj's to an NP (after one or two have already been added) is adding them as dependent verb clauses (k, 4.8-s Vaj-4.8 after the NP).

## 11.1.2. NP Expansion With Apposition.

- 1. 4.3 N
- 2. N 4.3 N
- 3. A N N (where the second N is a proper name)

Each of the three above can function as NP in several different contexts. For example in insults like '6 taléwa héwt '0h you rat!', '6 taléwa spiypfyx ol '0h you crocked-leg!', etc.; in sent-ences like \*asésu la \*appfil k' iléstwa yuk'álam swáwalas 'And so an unstated number of them, young men, went down/descended.' (k' iléstwa = Nindef used as Vaj; it cannot follow A because the A is included within yuk'álam; swáwalas follows in apposition), su me c'\*lém euk'à sá·seq t 'So/Then the youngest girl jumped.' (literally "So she came to jump, the youngest girl.')(CT), ls t'6k' stx sx yûk'à·lèm q'é·lami te swí·wales 'They, the girls, took the

young man home.' (CT), ?slt6lst6xWcet k;Ws sisele sc;iq;W 'We'll feed your grandfather Sc;iq;W.' (Sc;iq;W is the name of the grandfather)(CT).

## 11.1.3. NP Expansion With Conjoining.

- 1. A N qe N: the A can be omitted after qe in conjoining NP's. For example, le lemélstex wes to Bill to sq'émél xwelém to Jim qo Bob 'Bill threw the paddle to Jim and Bob.', lí lém k'we Bill qe Bob 'Did Bill or Bob go?'
- 2. -O qe N: the A can also be omitted after qe in conjoining object pronoun suffix and object NP. For example, cel k<sup>9W</sup>ecláme qe Bob 'I saw you and Bob.' (Presumably Vi-S could have its -S conjoined with an N in a similar fashion, Vi-S qe N. Vt-O-S could not conjoin its -S with an N however by adding qe N because the N (even with omitted A) would be interpreted as an O.)
- 3. A (4.7)(Num) N qss A Vaj N: the A is not omitted after qss in conjoining NP's or Num's. For example, k'á swés 'iséle sq wenéy qss te qéx pús. 'He has two dogs and lots of cats.' (A usually omitted after k'á).
  4. A Num(-X) qss A (Num-X, Num N): conjoining numerals which are nominal or adjectival. For example, te 'epéle qss te lálec'e 'the eleven people'.
- 5. A N qes 4.3: conjoining NP and independent Npron.

For example, cet ?fitel tlaq&.ys to Bill qcs ts?&?clOs
'Bill and I are eating right now.' (probably permitted also are (Dpron,Npron,A(N,D,Num,V)) qcs (Dpron,
Npron,A(N,D,Num,V)), i.e. NP qcs NP.)

6. A N-4.63 A N qe N: conjoining NP possessors of a single NP. For example, le Giytes & Oliver Wells qe Casey Wells te sq Weltel-s & Daniel Milo qe Bob Joe lf te machines te x Welftem 'Oliver Wells and Casey Wells made (or fixed) the voices of Daniel Milo and Bob Joe on the white man's machines.'

11.1.4. Omission of the Article in NP's. The A is omitted before nominals (N, or D or Num or V functioning as N) with nominal status retained only in a few contexts:

- 1. A is omitted after conjunction qe 'and, but, or' (as seen just above).
- 2. A is omitted before NP's used vocatively. For example, lémcx any? for siyém 'Keep on going (away), chief!' (said to a wolf), lecsp 'ay 'foy siyém 'You folks keep on going, chief!', léw sí·le 'Hello grandmother/grandfather!', mítł kwetx folem l siyéye 'Come inside, my friend!'
- 3. A is omitted after 'ewéts' be none, nothing, no-body, have no', 'ewétst' be nobody' (AC only), and 'ewé(')ts 'is it none?, are they none?'. These words

nominalize what follows (frequently verbs) because the -ts acts as an A. ?aw6- acts like negative verb ? fwe, and ? ow £( · ) - is really negative verb ? fwe plus interrogative suffix -e - - . Examples: ?ewéts kapu kwsas xwa?i. He came without a coat (The coat was none when he came).'. le ?£h'qel qe ?ewéts ?à kapus qe yiyeq 'He went outside without a coat and it was snowing.' (lit. He went outside and it was just none, his coat, and it was snowing.'), gar to h'ik' Wiyelp qe ?ewéte h'ik' el 'There's a lot of bean vines but no beans.'. ?ewéts me xwe?i. 'Nobody came.'. (?a)wéte ?i. 'He's not here.', ?awéte-l s-li.m (or) ?aw&ts-1-s li.m 'I didn't pick anything.' ('My picking is none.'), ?ewéte-l słóq'elex k, wes q'épsce k, We of k, Wela 'I didn't know there was going to be a gathering here.'. (Cheh.) (?a)wéts-1 lo'élex 'I don't know' (lit. 'My knownledge of it is none., I have no knowledge of it.'), ?ewéts słéq'elex wetemtémesce k' es 'éttelcet qelét 'No-one knows when we'll eat again.' (lit. 'The knowledge of it is none when it will be our eating again.'), ?ewets sk fyextemet 'Nothing could be done.', ?ewetsl sted elemet to skwixys 'Nobody knows his name.'. wete ?s smevee 'Do(n't) you have any meat?' (lit. 'Is it none, your meat?'), we'te st'6lmex "Isn't

there any medicine?' (lit. 'Is it none, the medicine?'). 4. A is omitted after demonstrative semi-verb & a 'that's \_\_\_\_, that's him/her' and verb x w ~ x o ~ x e 'become' (probably because both involve existence. perhaps calling for N > V (stative) and leaving the syntactic analysis as x'á V and xWé V instead of x'á N and xwé N. For example: xwexcel ?f.l xwé siyá.lexwe 'I'm not old yet., I haven't become old yet.', cak asésu la x dé (hyper-slow x de mestiyex de l'And so he turned into/became a person.'. la ?iyá·qeat ta smíməxèk qək'asəsu xwe kaliqwat 'The caterpillar changed itself into a moth.' (lit. 'The caterpillar changed itself and so it became a moth.'), selci.m kws hies qe yet s'es me xwe syemyem 'How long before she came to be(come) pregnant?', le x w sté·li 'She became a woman.', le xwé swiyeqe 'He became a man.'; h'á séh'stels 'That's her older sister.', h'á téls yi 06 'That's their mother (the mother of those people) . '. k'á ? swé 'That's yours.', k'á ? swé tél 'That's your (own) mother.', h'á tú h'à 'That's him., It's him.', h'al sta'les 'That's my wife.', h'a te (Bill, músmes, x wex sye) 'That's (Bill, a cow, a fly).', k'á 'fit memiyet 'That's the one that was helping s-o.' (Note that even the A can be omitted which is the only marker nominalizing or here relativizing a VP!)

5. A related case follows where A is omitted and the words following are inflected as nominals for possessive, but the words function as verbs. This occurs when A is omitted before nominal verbs sk'f(.) 'want: like' and sq elewel 'think; thoughts, feelings'. These words function as regular nominals in some examples and follow a demonstrative article. However both words can also appear without the demonstrative article and are then translated as verbs 'want' and 'think'. The thing that makes them unique is that their subjects are indicated only by possessive pronouns of 4.6 without an article and never by 4.4. When not following an article (when not regular nominals), they also can (and must) take an object (NP or A-4.8-s V-4.8 for example) though neither is inflected for transitivity; in this respect they resemble Vprep's (see 11.2). sk'i has allomorph sk'iy before -ələp. -1. and -?E.

Examples as nominals: '%y tel sqw&lewel 'I'm glad., My feelings/thoughts are good.', @ehftcexw te sqw&lewel 'Concentrate', Keep your mind (thoughts) on what you're doing!', (Tait) coes to sqw&lewels 'He (or She) is emotional.' (lit. 'His/Her thoughts/feelings are tender.'), xwe'î't te sqw&lewel 'What are you thinking about?' (lit. 'Where are they going, your thoughts?'), stem k'ws sk'î 'What do you want?'.

As nominal verbs with omission of A (4.6a, 4.6b and 4.8a, 4.8b indicate possessive pronoun suffixes attached to word before and/or word possessed, depending on person and number):

- 1. 4.6a (sh'i, sq elewel)-4.6b k' -4.8a-s VP-4.8b
- 2. sh'i k'W-4.8a-s VP-4.8b
- 3. 4.6a sh'1-4.6b NP
- 4. Vadv-4.6a sh'i-4.6b-4.6a NP-4.6b
- 5. 4.6a sh'iyε-4.6b NP
- 6. lf-4.6a (sk\*f, sq<sup>W</sup>£lewel)-4.6b (4.3) k\*\*-4.8a-s VP -4.8b
- 7. ?6we li-s-4.6a (sk\*i, sq<sup>W</sup>£lewel)-4.6b (4.3) k\*<sup>W</sup>-4.8a-s VP-4.8b
- 8. ?śwe-4.4 li-4.9b-4.6a sk'i-4.6b
- 9. ?5wa-4.6a sh'i-4.6b k'W-4.8a-s VP-4.8b
- 10. ?6we sh'ises k'W-4.8a-s VP-4.8b
- 11. ?ewé-s lí-s-4.6a sk'í-4.6b, VP-4.4
- 12. ?ew&-?e sk'fyes k'<sup>W</sup>-4.8a-s VP-4.8b (sk'fyes sic?
- 13. V-4.4 we-li-s-4.6a sk'f-4.6b k'W-4.8a-s VP-4.8b
- 14. 4.4 (Vaux) V-0 A ?f.+-4.6a sk.1-4.6b (The A is added to relativize the VP.)

These 14 structures represent over 80 elicited sentences with paradigmatic variations and also expansions of NP and VP. Many others are surely possible. An example of each type follows:

sk'ís k'<sup>w</sup>es k'ás (yúk'à·lèm, k<sup>w</sup>ax<sup>w</sup>ilát, θe stá·les)

- k; Wes k; Wéclex Ws 'He wants (them, K Wax Wi tat (Dorothy Wealick), his wife) to see it.
- sq elewels k, wes \* as ture lem 'He thinks he's the
- 2. sk'f k'Wels le yewé 'I want to go along.'
- 3. 1 sk'i k'We qa' 'I want some water.'
- 4. wə?álwə-l sk'iy-l siyé ye 'I like my friend a lot.'
- 5. ? sk'iy sk' we qd. 'Do you want some water?' (less common structure than li ? sk'i k' we qd. 'Do you want some water?')
- 6. If ?ε sh'if k' wes x wiy 60 eq θ 6 x y Do you want to interpret for me?' (lit. 'Is it your want that you interpret/translate/repeat me?')
- lí ? $\epsilon$  sq $^W$ £lewel k; $^W$ es mes  $x^W$ £ $\theta$ t£lem w£y£l£s 'Do you think it will be cloudy tomorrow?'
- 7. ?6we li-s-l sh'i k'W-s-s liyém 'I don't want you to laugh.'
- ?  $\text{$\psi$e} \text{ li-s-1 sq}^{\text{$W$e}$ lewel $k^{\text{$W$e}}$-$e-s lem 'I don't think you should go.' (lit. 'It's not my thought that you go.')}$
- 8. ?Śwacx li-x -l sk i 'I den't want you.'
- 9. ? Swe sk'i-s k'Wes meytalxW-s welfmet sowq'tala
  'He doesn't want to (or won't) help us find you folks.'
- 10. ?6wə sh'fsəs k' els l<br/>s k' ecəbàmə 'He doesn't want me to go see you.'
- ll. ?ewés lís (? $\epsilon$ ) sk'íyələp lacel k $^{W}$ ú·t 'If you folks

don't want it, I'll take it.'

- 12. ?ew& ?e sk'fyes k' wes k' weclex cet 'Don't you want us to see it?'
- 13. lémoel we-li-s-l sk'i k'<sup>w</sup>els lém 'I'm going when I want to go.'
- 14. cel me méstex to 21.2 ? sh'f 'I brought what you wanted.'

# 11.2. Verb Phrases (VP's), Clauses, the Sentence.

11.2.0. A verb phrase consists of an inflected verb plus its subject and/or object NP's, if any (see 11.2.1), plus its internal modifiers if any (11.2.2). A VP can also consist merely of an inflected verb, if no subject or object NP's or modifiers are present. A VP which can stand by itself as a sentence is called an independent clause if it has subordinate VP's (11.2.4, 11.2.3), co-ordinate VP's (11.2.5), or words in apposition (11.2.3) attached within its sentence. A subordinate VP usually cannot stand by itself as a sentence because it is nominalized or subjunctivized.

11.2.1. Types of VP, Subject NP and Object NP,

Vi and Vt. Unless noted, all VP's follow the next

rules on subject and object placement:

.1. Vi-S s. Vt-O-S s o. Vt-O-S o. Vt-O- $_c$ -S  $_c$  s vt-Pass c (S). Vt-Pass  $_c$  S. In other words, a single NP after a Vi is the subject; a single NP after a Vt

is the object unless it corresponds in person and number only with the subject suffix, in which case the NP is the subject; if two NP's follow a Vt, the first is the subject and the second is the object; this order is reversed to indicate an agent after a passive Vt (Vt-Pass 0 S 'O was V-ed by S'); a single NP after a passive is the object if corresponding if corresponding in person and number with the passive object suffix, otherwise the NP is interpreted as agent (i.e. subject); a single NP after a passive can also be interpreted as agent (S) if the O has been defined differently as an NP in the preceding context.

.2. With benefactives, the O is the beneficiary (indirect object) when animate and the direct object when inanimate. In addition, when V-Ben-O<sub>1,2</sub>-S is followed by NP, the NP is the direct object when inanimate; when V-Ben-O<sub>1,2</sub>-S is followed by an animate NP (4.3) which does not correspond in person and number with the -O, the NP is the subject. (If two NP's follow V-Ben-O-S the order is V S O as expected; O is the beneficiary if animate, the direct object if inanimate. I was unable to elicit sentences with both direct and beneficiary objects, but I seem to remember having heard one with the direct object preceding the beneficiary object.)

- .3. When Vi is a Vprep, Vi-S O (S) occurs; in fact Vprep's must have an O even though Vprep's are inflectionally Vi's. (An alternate analysis could class Vprep's as almost the only Vt's without a contol suffix and object suffixes, the only Vt's to take 4.11 as pronoun object, and nearly the only Vt's to have V O S; ?emí, lém, sk'í, and sq'élewel might be the other Vt's having V O S order and lacking control and object suffixes.)
- .4. (?\*)mf 'come (to), coming (to)' and lém
  'go(ing) (to)' also allow Vi-S O (S) order when the
  NP following is a place (semantically). These verbs
  have allosèmic rules that read: (?\*)mf /'come (to),
  coming (to)'/ >> ['come to, coming to'] and lém
  /'go(ing) (to)'/ >> ['go(ing) to'] (both) in the
  environment before A N where N contains the semantic
  element ['a place']. As a result, a prepositional
  element becomes obligatory, and the A N following
  becomes the object of that preposition. A second NP
  following the A N becomes the subject of (?\*\*)mf or
  lém because both verbs are inflectionally Vi's.
  - .5. As mentioned in 11.1, sk?f 'want' and sq 'Elewel 'think; thoughts, feelings' when not preceded by A must be followed by an O (either NP or subordinate clause k? W-4.8-s V-4.8), and this in spite of

the fact that they are inflectionally intransitive. With an NP subject the order is almost certainly V S O since sk\*f-s and sq\*£lewel-s would have to be followed by their NP possessors if present; but I have no examples to quote on this.

- .6. In addition, some Vi's suffixed with -om intransitivizer (6.1.6 Group D) or -els ~ -ε·ls intransitivizer (6.1.2.2) can take 0 as well, and the syntax is then Vi O (no examples are attested of S with Vi O). The O always seems to be inanimate or dead, and the Vi always seems to be one requiring an animate or alive subject. Thus for semantic reasons an O is possible here. If the NP after these verbs is animate it is interpreted as the subject. There is a further refinement with - &·ls - - ols verbs (and some -em verbs): a following 0 is often translated generically (without an article in English) thus joining V and N in a single activity repeated many times with accent on the activity ('burn food at a ritual', 'barbecue salmon', 'carve wood', 'fry bread', 'fetch wood'. 'pick blackberries', 'chew gum', etc.).
- .7. In all the above formulae -S may instead be preposed to the  $\mathbb V$  (the ambiguous past tense) without otherwise changing the syntax.
  - .8. Though more examples and further work are

necessary, some tentative statements about the syntax of words like 'everything' and 'nothing' can be made here. These words include mék; ~ mók; lal, every; everybody, everything', mek; stém 'everything', mek; (e) wét(es) 'everybody, everyone', mék; tewét(es) 'everybody, everyone, (possibly) anyone', ?ewéts '(it is, there is) none, nobody, nothing', ?ewéts k stém 'nothing', and ?ewéts tewét 'nobody'. All these words are translated as pronouns and serve as NP subject or NP object of verbs but precede the verb (0 Vt S or S V (0)). The situation can be summed up as follows (E1 = mek; stém, mek; west ~ mék; tewét, ?ewéts k stém, ?ewéts tewét; E2 = mék; ~ mók; E3 = ?ewéts);

.8.1. E<sub>1</sub> (underlined) can occur as subject or object of a verb while preceding that verb; when E<sub>1</sub> is the object, the verb (or auxiliary ?f or 1f before it) takes a subject suffix which appears to be subjunctive (O (?f, 1f)-4.9b Vt-0. O Vt-0-4.9a (S). O-9s Vt-0-4.9a are three sentence structures attested); when E<sub>1</sub> is the subject, the verb is lacking a subject suffix (S Vt-0 0. S Vi. S le Vt-0. are attested). E<sub>1</sub> can also be preceded by an article and both then follow the verb (sh!f-4.6 A O-9s.); the -9s is unclear, perhaps the same -9s as derives Nindef's in Chapter 8.

- .8.2. E2 (underlined in this section) can occur preceding a verb as a sort of Vpron, or it can occur following a verb as part of the NP subject or object. mék, (and for some speakers ?ewéts) can be inflected with 4.4<sub>pl</sub> (and -4.8<sub>pl</sub> in a subordinate clause), and somewhat like a pronominal verb (4.1 or 4.2) modify the subject or object of the verb that follows (Vpron-4.4pl V or k. -4.8-s Vpron-4.8 V as a subordinate clause); an alternate structure is allowed, Vi-4.4 mék, W Vadv (instead of mék, W-4.4 Vi Vadv) and is used interchangeably. mák, can also serve as Vaj modifying the N in an NP, and then it precedes anything else in the NP, including the article (Vt-4.4 Vaj A-4.6 N-4.6. or Vt-4.4 Vaj A Vaj 4.6 N-4.6. or Vt-O-S A N Vaj A N. or Vi Vaj 4.3 n. or Vt-O-S Vaj 4.3<sub>pl</sub>  $k^{W}$ ses V-O-S Vprep A Vaj N.). An alternate structure is allowed here too with Vi's: m6k, W Vi A N where mok, w is a Vaj modifying the N and really part of the NP but even so preceding the verb.
- .8.3.  $E_3$  can occur as an independent verb all by itself (3rd person only): 'Pewéts' 'It/There is nothing/nobody., There is/are none.' It can also occur inflected for interrogative, ('Pe)wé(')ts' 'Is it none?, Is there none?, Is there nobody/nothing?' (see Chapter 6). In either form  $E_3$  only occurs first in the sen-

tence or independent clause. It can be followed immediately by an N with no A before the N; this N can be possessed or otherwise modified (E<sub>3</sub>-4.6 N-4.6, etc.) and serves as syntactic subject of  $E_3$  (or it can be viewed as a nominal without A serving as a main verb which is modified adverbially by ?ewets); the translation is rarely 'The N is none.' (for  $E_\chi$  N) or '4.6's N is none.' (for  $E_3$ -4.6 N-4.6) but usually is 'There is no N.' (for Ez N) or '4.6 has/have no N.' (for  $E_{\chi}$ -4.6 N-4.6). Subordinate clauses can of course expand these sentences further:  $E_{3}$  N  $k^{W}$ ses V for example, 'There was no N when he V-ed., He V-ed without an N.' More common are:  $E_3-4.6$  s-V-4.6 '4.6 didn't V., 4.6 V-ed nothing.' (where  $E_{Z}$  is translated as a simple negative or as a negative object if the  ${\tt V}$ is transitive), and  $E_{\chi} \ k^{,W}e \ V$  'Nobody V-s.' (where k, we V is syntactically a relative clause the one who V-s' as in 'The one who V-s is nobody.' > 'Nobody V-s.'). Even  $E_{Z}$  V occurs (where the V is expandable into an expanded VP, for example,  $E_{3}$  me V); here the  $E_{3}$  is translated as subject, 'Nobody V-s.' Finally  $E_{\chi}$ , ?ewéts that is, also has partitive constructions: ?ewéta k' e V telf 4.ll - ?ewéta telf 4.ll k' e V 'None of (us, you, them) V(-ed).' and ?ewéts k, We V telí A(-4.6) N(-4.6) ~ ?ewéte telí A(-4.6) N(-4.6)

k, We V 'None of (my, your, etc.) N's V(-ed).' (the N is inflectionally plural if possible).

Here are some examples of each of the sentence types above (the numbers correspond with the paragraph numbers above):

- 1. ?iwálem te mémele 'The children are playing.'
  k; wéc-l-ex -es te swíyege te spée 'The man saw a bear.'
  msy-0-áx -es tel siyéye 'My friend helps me.'
- tés-l-em θứ 'à te swíyeqe. 'She was bumped into by
  the man.' and tés-l-em θứ 'à te kár. 'She was hit
  by a car.' (cp. téslex es θứ 'à te swíyeqe 'She
  bumped into the man.' and téslex es θứ 'à te kár
  'The car hit her.')
- ?f.was-t-am (Oút'à, to swiyago) '(She, The man) is being taught.'
- $k^W \mathcal{E} \cdot l x^V t \theta m \theta \hat{w} \hat{a}$  'She was hidden., They hid her away.'
- le k<sup>W</sup>£·lx<sup>y</sup>-t-em ye siy£·ye-s 'She was hidden away by her friends.' (The NP is interpreted as agent S because the O has already been specified previously as 00x'à).
- kwf.lxy-elc-t-em Oux'à 'It was hidden for her.'
- c'éc'eq' -1-em k' (tewétes, swátle) '(Someone, So-and-so) got shot.'
- 2. Giy-61c-t-es to sq om of 'He made it for the dog.'

- ifc'-eic-et-cel-ce te sméyee 'I'll cut off the meat
- $q\acute{a} \cdot \pm c e \theta \acute{a}x^{y} es$  to  $q\acute{a} \cdot$  'He brought me the water.'
- $k^W f \cdot lx^V e^{\frac{1}{2}c \theta ax^V} e^{\frac{1}{2}c} = \theta u t^2 a^{\frac{1}{2}}$  'She hid it for me.'  $pix^W e^{\frac{1}{2}c t} e^{\frac{1}{2}c} = \theta e^{\frac{1}{2}i}$  to swiyege 'The woman brushed

it off for the man.

- 3.  $k^{*W}$  £cotos lf  $k^{W}$ Os lélom 'He saw it in your house.'
- cal Ofyt to swoq, wat telf to sé ys to p'q'alqal 'I

made the blanket from the wool of the mountain goat.

- cel ye-le?& k, we sq'éwlec 'I went/travelled through/ via Scowlitz.'
- le lf te s?é·k'q k<sup>₩</sup>0el méle 'My child is outside.'
- le lf k' e se'á mes eel méle 'My daughter is in Vic-
- lí to xyét tel méle 'My child is in the road.'
- st'é k'We spé·0 te Bob 'Bob is like a bear.'
- 4. lém to smélt 'He went to the mountain.'
- lém to stoqtoq túx'à 'He went to the jampile.'
- ?emf to lelement to ?isé·le spé·0 'Two bears come to our house.'
- 5. 1 sk'f k'We qa' 'I want some water.'
- % sk'iye k'We qá. 'Do you want some water?'
- lí ? sk'í k' Es yáys 'Do you want to work?' (lit.
  - 'Is it your want that you work?')
- ? we list sq elewel k, es lim 'I don't think you

- should go.' (lit. 'It's not my thought/feeling that you go.')
- 6. (All EB) q'"élémeetes k<sup>W</sup> se'áq<sup>W</sup>i 'We'll barbecue salmon.'
- q, weq, welem to se'aqwi 'barbecuing salmon'
- k; \*\*#tém to k\*\*fpi 'pour coffee (lots, as a function or activity);
- lémti kwél em te siyát 'Go fetch (some) wood!
- lecx<sup>W</sup> cesé·t k<sup>W</sup>s les k<sup>W</sup>\$1·em k<sup>W</sup> qá· 'Send him to get
  water!'
- cal lim to sk, wo lmex 'I'm picking blackberries.'
- eiyém te sepii:l 'to bake bread'
- c'ém te k' "íx" 'to chew gum'
- tek'\*&: to se'áq\*i 'He went hooking salmon (gaffing)., He gaffed a fish.' (cp. tok'\*&: ls to swiyoqo
   'The man went gaffing/hooking.')
- hfyeqwels to s?&ttol 'He was burning food at a ritual.,

  He was performing a burning.' (cp. hfyeqwels to

  swfyeqe 'The man was performing a burning.')
- xet'k'\\delta te siy\( \frac{1}{2} \) 'He carves wood.' (cp. xet'k'\\delta te swiyeqe 'The man carves.')
- cel c'ek<sup>W</sup>xéls tə s0'áq<sup>W</sup>i 'I fried (the) salmon (there is lots).' (cp. cel c'ék<sup>W</sup>xt tə s0'áq<sup>W</sup>i 'I fried the salmon.')
- ?f.tcel c'&kWxels to seplf.1 'I was frying bread.'

- la tc'&·ls (~ lflec'els) to siyál 'He's gone cutting
- cel ?slq£ls te seplí·l 'I bought (the) bread.' (cp.
  cel ?iléqet te seplí·l 'I bought the bread.')
  (cp. k<sup>W</sup>áx<sup>W</sup>et te q'éwet 'beat the drum' but \*k<sup>W</sup>x\*é·ls
- te q'éwet; xwek'wétes te Bill ee Mélí 'Bill drags Mary.' but \*xwek'wétes te Bill ee Mélí; xwáy-met-es túx'a te se'áqwi 'He sold the fish.' but \*xwáyem túx'a te se'áqwi.)
- See examples in past tense treated in Chapters 4,
   and later in 11.
- 8.1. mək, wstém ?il k, wecləx "I saw everything." ?awets k stém ?il k, wecləx "I saw nothing."
- ?ewéts tewét (líl, ?íl) k'\*éclex\* 'I saw nobody.'
  ?ewéts tewét k'\*éclex\*es te swiyeqe 'The man saw no-
- ?ewift tewift kiweclexwes to swiyoge 'The man saw nobody.'
- mek' wet k' weclex wes to swiyed 'The man saw every-body.'
- mek' stém k' sclex es yi siwîyeqe 'The men saw everything.'
- mék' tewét (~ mek' wewét) k' wéclex wes 'He saw everybody.'
- mek, wewft lep ex, set a seyk flo 'The grizzly bear ate everybody.'
- (lop'ex es to xey tele mek' ewetes 'The grizzly ate

everybody (that was there).' and lep'exyes to xeva 10 mek, towetes The grizzly ate anybody (that came along). show normal V S O order is an alternative and also show a possible semantic distinction between mek, west(es) and mek, tewet(es). mak, Wawstas + at fry altes 'He/She/They invited everybodv. mek, wayet k, weclex to swiyede 'Everybody saw the man.' mek, west lém - mék, lém 'Everybody went.' mak, Wawet le (or la ?) ? Eyalas 'Everyone left him.' ?awéts kwstém sli·w 'There's nothing in(side) it.' shifs k, Wa mak, Wawetes 'He likes (wants) everyone. weł ?iyá·lem k, we mek, wewstes '(It's) enough for everybody. 8.2. mók, wcət lém 'We're all going.' mók, (q'áy, wóq', t'it'ec'em) '(They're) all (dead. drowned. swimming).' mák, w slét k, wes ?emis te lelémeet te ?isé.le spé.e 'Every night two bears come to our house.' mék, w swével k, wels lém 'Every day I go.' veléwel lás telí kws mók' s 'He's fattest of all.' sk, wey k, wes mok, welep lem 'You can't all go.' lscet mék, \* ? Eyel \* ek cet t ' Et 'iyeq' 'We all left because we were mad. lemlémetox mék, tel 0'x elwétem 'Fold all my laundry!'

- lemlémetox mék, yel ?&.wk, iFold all my clothes
- lemlémetcx mék, ye ck n-1 ? f. wk, ' 'Fold all my
- k, we clax was to swiye on mak, we yi shelheli 'The man
- qeh'asésu ?á·l mók, w yuh'álem 'And so they all got aboard.'
- c'i·tcel mók' yuk'álem k<sup>w</sup>ses 'i·weseax<sup>y</sup>es x<sup>w</sup>elé·m te sx<sup>w</sup>elméx<sup>w</sup>eł s'i·wes 'I thank them all for teaching me (about) the Indian (way of) teachings.'
- měk; v ?i (tə)l mémələ 'My children are all here.'
- 8.3. we to st'6lmex" 'Is(n't) there any medicine?'
- (?e)wéts q; W6:ls 'He has no ear(s)., They have no ears.: It has no handle (especially of a cup).'
- we te ?s smeyee 'Do(n't) you have any meat?'
- q6x to h'ik' Lyolp qo 'ew6ts h'ik' el 'There's a lot of bean vines but no beans.'
- ?ewéts kapu  $k^W$ ses  $x^W$ e?f. 'He came without a coat.' (He had no coat when he arrived.')
- le ?£x'qel qe ?ewéts ?à kapús qe yfyeq 'He went outside without a coat and it was snowing.'
- (Chill.) ?ewéte-l słéq'el·exW ~ (Cheh., Tait) wéte-l łq'él·exW 'I don't know.'
- ?ewéts-l słóq'el·ex k, wes q'épscs k, we ?í·k, welà

- 'I didn't know there was going to be a gathering here.'
- ? swits sliq'elex wetentimescs k; wes ? fitelest qelft
  'Nobody knows when we'll eat again.'
- ?awate-1 s-lim 'I didn't pick anything.'
- ?ewsts s-k yextemet 'Nothing could be done.'
- ?ewets-1 sxw?fy 'I'm good for nothing.'
- ?ewéts sxw?éys 'He's good for nothing.'
- (cp. mek' stém sx " feys 'He's good for everything.')
- ?ewéte k'"e lém 'Nobody's going.'
- ?ewéts kws kwetéxwemet 'Nothing was inside (a building. esp. a house).'
- ?ewste k, we le qwelsea.m 'Nobody spoke to you.
- ?ew&ts k; We le q d'élseà m 'Did nobody/Did(n't) anybody speak to you?
- ?ewets k; We le meyea m 'Weren't you helped?, Did(n't)
  anybody help you?'
- wex went of the town of the state of the second will see me.'
- (?e)wéte ?f. 'He's not here., Nobody's here.'
- ?ewets me xwe?i. 'Nobody came/arrived.'
- (cp. ? wecel lîl k, weclex tewét 'I didn't see anybody.' and ? we ? is ? i k, weclex wes k stêmes }. Bill 'Bill didn't see anything.')
- ?ewéte k' e lém telí h'elimel ?ewéte teli h'elimel

k\*\*\*o(s) lém 'None of us went.'

(One speaker of the Chehalis dialect also gives

?ewétscep lém 'None of you folks went.' and

?ewétscet lém 'None of us went.' as alternatives.)

?ewéts k\*\*\*o lém telí tel mémele 'None of my children

went.'

In addition to the eight rules above, it is also necessary here to make some statements about Vi's, Vt's, and types of Vi's which have their own syntactic properties. Excluded from these will be statements about syntactic properties of Vadv, Padv, Pmod, Dadv, Vaux, Vneg, auxiliary past, and If questions; all of these will be treated in 11.2.2. Other types of verbs and syntactic classifications:

9. Fronouns of set 4.7 can occur as verbs; 4.7 can be a complete sentence as can 4.7-ce; 4.7 is more nominal in the sentence type \*'4 4.7. Vpron's are those in sets 4.1 and 4.2. They can be used syntactically like other Vi's but are limited to 3rd person subject when inflected for subject by the other pronouns (4.4<sub>3</sub> (unmarked), 4.6<sub>3</sub> -s, 4.8<sub>3</sub> -s, and 4.9 -s). Vpron can be inflected for future (-ce) as well as subjunctive (we-\_\_-4.9a). Examples in sentences show that no \*'\*-4.8-s \_\_-4.8 is needed to conjoin

Vpron to a following VP; the VP is merely added without subject pronoun and the Vpron becomes the subject of the following VP. Thus \(\frac{1}{2}\text{w}\) = \(\frac{1}{2}\text{the vill be}\) you folks that go.', le s\(\frac{1}{2}\text{f.-s k.}^{\text{W}}\) = \(\frac{2}{6}\text{100-s}\) k:\(\text{W}\) = \(\frac{1}{6}\text{clex}^{\text{W}}\) 'He wants me to see it.', le ste?\(\frac{2}{6}\text{well time.}^2\) k:\(\text{W}\) = \(\frac{2}{6}\text{100-s-cc lem}\) 'He thinks (lit. 'guesses') I'm the one to go.' tew\(\frac{2}{6}\text{total also follow 4.1 in examples such as lews tew\(\frac{2}{6}\text{total vector}^2\) 'Who are you?'

- 10. V-Reflex, V-Recip, and V-Mid function syntactically as Vi's.
  - 11. V-Ppl functions as Vaj.
- 12. \*\*4 'that's \_\_\_, it's/he's/she's \_\_\_' is mainly verbal in syntax,but it also functions with particles to conjoin abstract concepts and VP's as well (see 11.2.5). \*\*4 always occurs first in the sentence; it allows A to be omitted before N or even before V > N; it can receive possessive inflection for the following N when A is omitted; it can also receive -cs 'future', -e 'interrogative' and we-\_\_\_-s 'if/when, subjunctive, 3rd person'.
- 13. Numerals behave syntactically like N's, Vaj's, or Vadv's depending on the affixes added to them, i.e.,  $-\pounds_1$  'times' on numerals produces Vadv's,  $-\mathrm{els} x^{\mathrm{V}} \mathcal{E}$  is only used internally within the class to produce more numerals (multiples of ten), and A can precede numerals

with all other affixes, yielding N's when no other N follows the Num. If A Num-X N is found, the Num is acting like a Vaj. Num + - &le 'people' is attested affixed with 4.4 and also with we- 'if.when' + -4.9a 'subjunctive', in both cases as an N > V (a nominal being used as a verb). Num + s- -s 'o'clock, hour' or s- -s 'day of the week' are clearly N's with the s- nominalizing them. Numerals between 10 and 100 but not multiples of ten are formed like N's, using Num gas A Num, but they may be used as V's in the ways mentioned, without omitting the A after qss (?ep&lecet que to lálec'e 'We are eleven people., There are eleven of us.'). Num + -es 'dollars' is sometimes attested as an N without a preceding A; and two examples have been found of Num N acting together as a main verb before conjunctions (similar to the way mak, w slet 'every night' is used): the Num N is translated as an adverbial phrase. Since no examples of numerals in sentences were given in Chapter 10 the following are quoted:

méx<sup>y</sup>cex<sup>w</sup> k; <sup>w</sup>e léc'e. 'Take one off!', cel @iyt k; <sup>w</sup>e (?isé:le, léc'e). 'I made (two, one).', q<sup>w</sup>è:l te lálec'e. 'One person spoke/speaks.', lém te lálec'e. 'One person went.', meth ?áx<sup>w</sup>eseàx<sup>y</sup> tú:x<sup>w</sup>es! 'Give me nine dollars!', Num-éle-cet. 'There's Num of us.',

lálec'ecel. 'I'm alone.. I'm one person.'. sk' éy k' es kwfys welalec'f's 'e k'we bek'wet. 'He couldn't climb/ get up if there was only one person to pull him.'. lálec'e mestívex telí k'e north. There was one person from the north.'. k'á yáswe lís xe'a@el lé·c'ewec mastivex 11 to 06. There were maybe four hundred neonle there.'. le xwlf·l ses 0e sivá·lexwe. lí ±xwé·le siyá·lexwe, ?á·met, qe sk³wé·y kws k³wéclexw. 'He got there to the old people, is it three old people? sitting, and they couldn't see.' (CT). \fix w sweyel k ses yá·yes túk'a 'He was working three days.' (CT). léc'e xwelé.lt su ?emí te stelqá.ye, l sqwélewel k, wes xe?á·0el te stelgá·yɛ g'É·lemi. 'So one night (the) wolves came, I think it was four wolf girls (adolescent)' (lit. 'my thought is that the wolves adolescent virgin girls were four')(CT). ?áx westem túk à te xə?á.001 s0'á.m. 'He was given four bones.', mók' slét k' es ?emis te lelémeet te ?isé·le spé·0. 'Every night two bears come to our house.'. cet ? &x wet to sq wamey to lec's se'a'm. 'We gave your dog one bone.'

Some syntactic requirements due to inflection: 14. Reflexives: 4.4 usually precedes V-lá·met and often precedes V-(e)0et in forming the present tense.

- 15. Reciprocal: V-tel almost always requires  $S_{\rm pl}$  if an S is present.
- 16. Pluralized verbs: agreement in number between verbs with pluralized subjects or pluralized objects and their -S, -O, S, and O is obligatory when these occur, but only as shown in the following formulae: V<sub>pl S</sub>-O-S<sub>pl</sub> A N (A N<sub>sg,pl</sub>, 4.3<sub>pl</sub>)

  V<sub>pl O</sub>-O<sub>pl</sub>-S (A N<sub>sg,pl</sub>, 4.3<sub>pl</sub>)

  V<sub>pl S</sub>-S<sub>pl</sub> (A N<sub>sg,pl</sub>, 4.3<sub>pl</sub>)

(As usual, items separated by commas within parentheses are alternatives, one of which must be chosen.  $V_{\rm pl~S}$  and  $V_{\rm pl~O}$  stand for verbs pluralized (as in 6.1.9) for plural subject and plural object.)

17. Interrogative inflection (with the one exception noted in 26 below) does not change normal syntactic order or syntactic requirement, whether the V so inflected is lém, sk' ½y, sk'f, '5we, '5wet, 'ewéte, k'á, 4.1, 4.2, or N > V. Thus, léme still behaves as a main verb, sk' ½ye still requires k' 4.8-s V-4.8, sk'fye still requires NF or k' 4.8-s V-4.8, 'ewé still requires (lf, 'f)-4.9b V or V-4.9a (or 4.6 sk'f-s k' 4.8-s V-4.8, etc.), 'ewét still can be followed by a non-subjunctive verb (as '6wet can) despite being a Vneg, 'ewéts still can be followed by N or V > N or the other constructions outline above

in 11.2.1.8.3,  $\lambda$ \*4. still can be followed by N without an article, and (4.1, 4.2, N)-e still stand as main verbs requiring  $k^{*W}$ -4.8-s V-4.8 for subordinate verbs following.

Syntactic properties of Vq:

- 18. Vq are mainly sentence-initial (except '6t±
  '(tag-question)' which is sentence-final).
- 19. Some Vq are only attested sentence-initially:  $k^*ak^W$ selcí\*ms, lí, and láyéx $^W$ s.
- 20. When sentence-initial, all Vq but k'ak\(^x\)self.\(^x\)ms, x\(^yf\)t and l\(^x\)self.\(^x\) are attested followed by -4.4 and -c\(^x\).
- 21. A few Vq can also occur after preposed 4.4 (xwe?f.t, ?sl5cs, xwcf.l, xw?ft) or after Vaux-4.4 (selcf.m, k.wf.l, xwe?f.t, xwcákwel)(Vaux here includes ls, ?e, and ?f.t).
- 22. Some Vq can follow Vadv (or Padv)(as in wełk,  $^{W}$ f·l or ysł  $x^{W}$ cák $^{W}$ el), and tewét can follow  $^{9}$ ewéts (a Vadv?) or 4.1 verbal pronouns.
- 23. Some Vq can be inflected for subjunctive and then used as relative interrogatives (as discussed in Chapter 6); these include: tel·scs,  $x^W(e)cs\cdot 1$ ,  $x^W(e)csk^Wel$ , ?slscs, tewit, and stam; of these, ?slscs, tel·scs, and  $x^W(e)csk^Wel$  are made subjunctive by following the subjunctivized auxiliaries ?f and lf, that

is, we-(°f, 1f)-4.9b (°slécs, tel·écs, x<sup>W</sup>(e)cák<sup>W</sup>el).

24. selcí·m and k'<sup>W</sup>Í·l can be inflected with

25. Vq occur almost exclusively before A (either in NP, subordinate VP, or relative clause), but exceptions include: temtém and selcí·m before V-Sbjn, lí before declarative verbs, ?slécs before wéyeles (a Vadv), and k'Wí·l and tewét before N in constructions like 'how many snows/years?', 'what man?', 'whose dog?'.

26. When a Vq or interrogatively inflected verb is followed by a relative clause containing a Vt, and it is the object of the Vt which is relativized ('What is it that you're holding?'), the subject of the Vt is indicated by (?1, 11)-4.9b inserted between the A and the Vt. The marking of subject and object in relative clauses is discussed fully in 11.2.4, but the preceding construction is noted here because it is triggered by the interrogative (Vq or V + -e 'interrogative').

27. There are no examples of Vq in a subordinate clause other than those put into the subjunctive and tés to sk' 1:1s 'What time/hour is it?' where k' 1:1 is inflected with the lexical affixes for 'hour' and nominalized or relativized ('It approaches/gets up to what hour?').

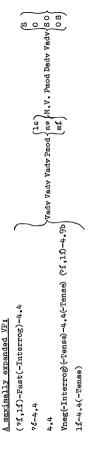
Examples of everything discussed in 18. through 27. above are quoted in 6.2.5.

Syntactic properties of Vdem:

28. Vdem's have special characteristics in the way they combine derivationally with other demonstratives to form new demonstratives. This has been descibed in Chapter 9. Their only other special syntactic characteristic is that a Vprep, lf 'in, at, to', is omitted following a Vdem. Otherwise Vdem's behave syntactically just like ordinary Vi's: Vdem-4.4 (NP) is declarative, 4.4 Vdem (NP) is ambiguous past, 1f.± Vdem (NP) is auxiliary past, lf-4.4 Vdem (NP) is interrogative, Vdem-4.4-cs is future, we-Vdem-4.9b is subjunctive, etc.

11.2.2. Expansion of the VP With Internal Modifiers: Vaux, Vadv, Padv, Pmod, Dadv, past tenses.

Vneg, 1f questions. A maximally-expanded VP would look like the following, showing the positions of the various possible modifiers (M.V. = main verb): (see chart on next page)



Notice how the VP is defined by putting its -4.4 pronoun subject inflection at the beginning and its S or O at the end. If nothing is present before the first Vadv then the first Vadv that is not a Pady can receive the -4.4 and -cs. If no Vadv is present before the M.V., the ls or me - mi auxiliaries can accept the -4.4, as well as -4.8. -Tense (but with le). -Imper, and (with mi only) -Sbin.

This formula is not a complete one for all constructions and inflections; it would have to be modified in some cases discussed below, and alternate constructions exist which are not shown (especially for Vneg). But it is a good rough outline. Each type of modifier will now be discussed, from those added

closest to the verb to those added furthest.

11.2.2.1. Vaux: le and me - mf; ?f(·), lf(·), ?6.

Vaux's divide into two groups syntactically. The first group, le and me - mf, directly precedes the main verb of a phrase and receives some of its inflections: -4.4, -4.8, -ce 'future', -½ 'past' (only with me - mf), -t½ - -½ 'imperative', we- 'when, if' + -4.9b 'subjunctive' (with mf only). le and me - mf add either an inceptive sense, a directional sense, or a future sense (auxiliary future) to the VP.

'f(\*) and lf(\*) are both used a.) to form an auxiliary past tense (as is '6) but suffixed with -1 'past' before -4.4 is added, b.) in an alternate method of forming the subjunctive after negative verbs and some Vadv's of uncertainty (like yáswe), and c.) to carry the pronoun subject suffix in the structure (Vq, V-e) A \_-4.9b Vt-O, where the object of the Vt (in the relative clause) is relativized to serve as the subject or object of the interrogative verb (main verb). '26 is used only in the auxiliary past tense so far as attested.

With 1s and me ~ mf the following are also attested (as well as other structures):

Vaux-Imper V (A N). (Imperative)

4.4 Vaux V. (Ambiguous past)

- if.1-4.4 le V. (Allowed even though it is Vaux Vaux V;
  this construction establishes clearly the division
  of Vaux's into the initial group and the group
  immediately before the main verb.)
- Vaux-4.4 Vq. (Where Vaux =  $1\varepsilon$ , %6, and %1.-\frac{1}{2}, and Vq = selci\*m, k\*\frac{1}{2}i\*1, x\frac{1}{2}i\*t, x\frac{1}{2}c\frac{1}{2}k\frac{1}{2}el.)

Vadv (le, me) V (NP).

(1s, me) Vadv V (NP). (A departure from the order listed above, either exception or error.)

(le, me) V Vadv.

4.4 Vadv Vadv me V.

- 1f-4.4 Vadv ls Vadv. (1s is either Vaux or M.V. here;
  if it is Vaux, the last Vadv is the M.V.)
- 11.2.2.2. Vadv. When a Vadv is the main verb it can be expanded for tense, interrogative, subjunctive, and so on, like any plain Vi. When Vadv is modifying a main verb it usually precedes or follows it directly. In this section ten types of structures have been identified with Vadv's, based mainly on over 80 sentences cited in 6.2.4.
- .1. Vadv as M.V.: Vadv-4.4. and 4.4 Vadv.(ambiguous past) occur, as do 4.4 Vadv A N., Vadv-4.43 A N., and ys-Vadv-4.43 A N.
- .2. Vadv as M.V. but in expanded VP: li-4.4 Vadv (A N). (Interrogative)

?&we-4.4 ?1.-4.9b Vadv. (Negative)
(we-Vadv-4.9a A N. (Subjunctive); not the main verb
but expanded subordinate VP.)

3. Vadv modifying a V:

Vadv-4.4(-cs) V (NP). (The Vadv can take the subject
and tense inflection from the verb it modifies but
not the object or other inflections.)

V-4.4(-cs) Vadv (NP).

V-Imper Vadv.

4.4 Vady V (NP).

4.4 V Vadv (NP).

if  $V = s\lambda^{1}$ : Vadv-4.6  $s\lambda^{1}$ -4.6 NP.

if V = V-Sbjn: we-V-4.9a Vadv is attested.

From the examples in 6.2.4 it can be seen that Vadv's can be grouped into those which occur before the verb they modify and those which occur after the verb they modify (and perhaps a few that can occur in either place).

Those attested only before the verb they modify are: c'£c'el(-ew) 'very', k<sup>w</sup>eltu 'very', '£e'el 'really', c'fmel 'almost, near(ly)', x<sup>w</sup>£'lq ~ x<sup>w</sup>£'lqi 'almost', y£l' just, now' (only before subordinate conjunction s'es which precedes the verb modified), q£'ys 'lately, recently', 'flulay 'the last time', l£6'el 'used to', hf'e 'a long time' (only before

subordinate conjunction k<sup>w</sup>s V-4.8), léc 'sometimes' (only before subordinate conjunction k<sup>w</sup>-4.8-s V-4.8 so far as attested), léq' 'sometimes', x<sup>w</sup>el 'still, yet', wə'âl(-əw) 'too (overly)', wiyâ0 'always' (with or without a following subordinate conjunction k'<sup>w</sup>-4.8-s V-4.8), yâswe 'possibly, perhaps, might, maybe', wel 'already', 0e'f't 'truly, for sure', tx<sup>w</sup>óm 'early', x<sup>w</sup>óm 'fast' (only before subordinate conjunction k'<sup>w</sup>-4.8-s V-4.8), yeléwel 'just past, over, more'.

Those attested only after the verb they modify are: yew&:l 'first', kiyá·q<sup>W</sup>t 'last, after, behind', x<sup>W</sup>ehfwel '(go,come) upriver', woq'<sup>W</sup>£ylem '(go,come) downriver', tá·l ~ cúcu 'toward the river, (if on a river) away from shore', cá·m 'away from the water', t'á(·)k;<sup>W</sup> '(go) home, homeward', qel£t 'again', tlaq£·ys 'now (this instant), right now', cel£qe½ 'yesterday', tlàw£y£l 'today', w£yeles 'tomorrow', 7el ~ ?à(l) 'just, simply', yew£ 'along, also', sq'aq'á 'along, together', ?£k'qel '(go) outside'.

Those attested both before and after the verb they modify: several numerals + -£ $^{\dagger}$  'times' are attested after and (when followed by subordinate conjunction  $k^{\dagger W}$ -4.8-s \_\_-4.8) before the verb they modify, and s(e)16 'tightly, tight' is attested before and after the verb it modifies but in either case only conjoined

to it by subordinate conjunction  $k^{9W}-4.8-s$  (as in  $s(9)16 k^{9W}-4.8-s V-4.8$  and  $V k^{9W}-4.8-s s916$ ).

It is possible that semantic groups determine which Vady's occur before and which occur after the verb they modify. Those occurring before seem to be adverbials of degree ('very', 'very', 'really', 'almost, nearly', 'almost', 'too (overly)'), of indefinite or uncertain time periods (especially in the past) ('just, now', 'lately, recently', 'the last time', 'used to'. 'a long time'. 'sometimes'. 'sometimes'. 'early'), and of degree of certaintly (or uncertainty)('possibly', 'truly'; possibly 'always', 'still, yet', and 'already')('fast' alone does not fit these categories). Those Vady's occurring after the verb they modify seem to be adverbials of direction ('upriver', 'downriver', 'toward the river, away from the shore', 'away from the water', 'homeward', 'outside'), of precise time ('right now', 'yesterday', 'today', 'tomorrow'), of sequence ('first', 'last', 'again'). and of accompaniment ('along, also', 'along, together') ('just, simply' alone does not fit).

A VP with Vadv V or V Vadv can be expanded thus: with Vaux: Vadv V  $\rightarrow$  (1 $\epsilon$ ,me) Vadv V (NP) or Vadv (1 $\epsilon$ ,me) V (NP)

V Vadv  $\rightarrow$  (1 $\epsilon$ ,me) V Vadv

with Vq lf: lf-4.4 V Vadv or lf-4.4 Vadv V with Vneg (so far): 'Pewéts V Vadv

wέ-cε V-4.9a Vadv

?6we-4.4 ?1-4.9b Vadv V (This

latter example may negate the Vadv rather than the main verb ('It's not too hot.' for example), but see the last chapter for more discussion of this.)

4. Some Vadv's can or must be followed by k, 4-4.8-s -4.8 when occurring before a V. This may be either a syntactic requirement or alternative for these verbs or it may be a process of focus, to emphasize the Vadv by making it the main verb of the clause and subordinating the following verbs to it. Not enough examples have been obtained yet to establish whether the present examples (in 6.2.4) show a syntactic requirement, a syntactic alternative, or syntactically expressed semantic emphasis. It seems alternative or emphatic with Num-£4 and ve-livá.oWt because both can also appear directly after the main verb (the latter as livá·o™t). It also seems alternative or emphatic (though more common) with wiyae because wiyae can also (rarely) precede the main verb without k, 4-4.8-s. It may be a requirement with yet, hi.o. lec. and x om. since these are not attested otherwise as Vady's syntactically: nevertheless, these could also be cases

of an alternative structure or emphasis if these Vadv's were to be attested without k'\*-4.8-s \_\_-4.8 in later data or following the main verb. s(e)lf is a peculiar case from the single attestation; it can either precede or follow the main verb but only conjoined to it with k'\*-4.8-s; it may well be a Vaj rather than Vadv.

5. In some cases a Vadv requires (11. ?1)-4.9b between it and the main verb that follows, or requires +'á-4.9b where h'á is the main verb. This is often the case with yaswe 'possibly, perhaps, might, maybe', xWf.lo 'almost', and li0 'all along, long ago' (probably short for welf.0 < wel hi.0 'a long time ago'). As explained in 4.9 and elsewhere the subjunctive is used where there is doubt, uncertainty or negation. This is clear after yaswe, and yaswe is attested in the following: yáswe-cel lí-l we-lèm - yáswe we-lèm-él 'I might go.', yáswe we-sk, wéy-es k, wels lêm 'It may be impossible for me to go.', yáswe (we-)k'á-s te mè·ls 'Maybe it's his father.' The same explanation may be possible for x tolq found in the following example: xW&.lacel lfl lém 'I almost went.' (but cp. xW&.lacexW lém. ?éti 'You almost went, didn't you?'). It is so far unclear why 110 requires the subjunctive, but several examples show it: 110 li-s s16q'el.ex "She

knew all along (long ago?).', \(\frac{16}{16}\) 1f-x \(^k\) 5f-q \(^1\)-s \

- 6. Vadv + Vadv + V: The same rules seen above also apply to cases where the VP is expanded by two Vadv's: those Vadv's which precede the main verb still do, and those that follow still follow; VP with two Vadv's are expanded by negation, interrogation, and le and me auxiliaries just as the single Vadv VP's are; those Vadv's which require k'W-4.8-s before the main verb still require it; and those Vadv's needing subjunctive on following (1f, ?f, \(\lambda\)) still use it. The following constructions are attested in 6.2.4:
  Vadv V Vadv (as in c'\(\epsilon\)'o 'lmel \(\lambda\)'o k'' el or c'\(\epsilon\)'o el ee'1.t)
- Vadv(-cs) Vadv  $k^{1W}$ -4.8-s V-4.8 (as in ? $\xi\Theta^{1}$ el-cs wehf $\Theta$  $k^{1W}$ es hák $^{W}$ ex $^{W}$  or wet hf $\Theta$   $k^{W}$ ses mf $Q^{1}$ )
- Vadv-4.4 Vadv V ~ Vadv Vadv-4.4 V (as in yáswecel  $x^M \mathcal{E} \cdot lq$  (?elf) melqf·wsem ~ yáswe  $x^M \mathcal{E} \cdot lq$  cel melqf·wsem (?elf is possibly sic for -£l-i or lf·l))
- 4.4 Vadv? Vadv (me) V (as in cel  $k^W \mathcal{E}$  wells is or cel  $k^W \mathcal{E}$  well me  $\chi \mathcal{E} \cdot m$ )
- 11-4.4 Vadv V(or Vaux) Vadv (as in 11 wells of yel)
  Presumably either the first or second verb in each

of the above has a subject pronoun inflection (-4.4), but since -4.4 in the 3rd person is unmarked on Vi's one cannot be sure which verb is so inflected. When both modifying Vadv's occur before the verb, some may be required first and some second. There are too few examples in my data so far to say much, but those attested first are ?60?01, weł, c?6c?01, yáswe, probably ±6q?01, and  $k^W6$  (if a Vadv); those attested second are hi0, c?fimel,  $x^W6\cdot1q$ , probably wiyá0, and wel (if a Vadv). (For ±6q?01 and wiyá0 see 7. below).

7. Vadv + Vadv + Vadv + V: Three examples of this construction have been attested so far, and everything said in 6. just above appears to apply here as well.

Vadv Vadv V A N Vadv. (As in: 16q'el wiyée c'f'yel yé xwelmexw k'wulifeel 'The people used to pray all the time long ago.'

Vadv Vadv Vadv Vaj. (As in: c'εc'el wel θe'f't s'ú·met
'He's really truly lazy.')

Again there are not enough examples to be definitive about whether certain Vadv's must occur first,

others second, others third when all three precede the main verb. In the examples found here we's and c'sc'el come first, (we)sl-ew and wel come second, and his and ee'f.t come third. The first example shows an additional example of the order of two Vady's before a verb and 15q'el and wiyss should be added to the statement of order in 6. just above.

8. Vadv's modifying verbs can occur also in dependent or subordinate VF's. Examples include:

? owfts V Vadv k' -4.8-s V-4.8 Vadv: ? owfts słśq'el·ex wetentfmescs k' os ? ftelcet qelft 'No-one knows when we'll eat again.'

l sq<sup>w</sup>&lewel k<sup>w</sup>s me-s V Vadv: l sq<sup>w</sup>&lewel k<sup>w</sup>s mes
lémex<sup>w</sup> tlàw&y&l 'I think it's going to rain today.'
4.4 Vadv V k<sup>w</sup>ses Vadv V: cel ee?f.t sl&q'el.ex<sup>w</sup> k<sup>w</sup>ses
wel làm 'I know for sure he's gone.'
sk\*1 k\*\*-4.8-s V-4.8 Vadv: sk\*1 k\*\*els le yew& 'I

want to go along.

All the examples show V Vadv in the subordinate VP except for one example of Vadv V; the same rules apply here as above regarding expansion with me and which Vadv's precede or follow the verb they modify. The first verb in the subordinate VP (whether Vadv or Vaux or Vt, etc.) receives a -4.8 suffix as expected if the subordinate VP has a third person or a plural subject

- (i.e. k, W-4.8-s V-4.8)(as usual -4.8 is only realized on the word preceding the first verb in singular 1st and 2nd persons,  $k^{,W}$ -el-s and  $k^{,W}$ - $\epsilon$ -s).
- 9. Some Vady's can be preceded by an article and still function adverbially: the A Vadv acts as a unit Vadv, occurring where its Vadv would occur and modifying the main verb of the VP. This combination of A Vady never functions as an NP and can never be the subject or object of a verb except after Vprep where A Vady can be the NP object. The best explanation may be to say that the A is prefixed and loses its function; the resulting Vadv would be treated as a variant of the original Vadv. Examples found so far include: ?shiw. cúcu. cá·leqw. cá·kw, weli·0(el), celéqel(el), and weyeles. tlaweyel functions in the same way at times but already has its A prefixed (to-là-wéyél, see Chapter 9). Examples in sentences include: lémcel k, we chiw 'I'm going upriver.' 16m k'We cúcu 'He's going toward the river (or away
- from the shore).'
- le védW k,We cá·ledW 'The backwoods are burnt.' k, weclex es to lélém lí to cá·k "He saw a house in the distance/far away.'
- leq'el wiyae c'f.yel ye xwelmexw k' e-wlfeel 'The people used to pray all the time long ago.'

csp ?&±tel (k¹We) cel&ge±(e±) 'You folks ate yesterday.'

?itcel lf k'We celéqel(el) 'I was there yesterday.'
lémcelce k'We wéyeles 'I'll go tomorrow.'
yeléwel xéyh' tlàwéyél telí k'We celéqel(el) 'Today
is colder than yesterday.' or better (and lit.)
'It is colder today than yesterday.'

10. A few adverbial elements are affixes, namely  $-q^{W}$ ±s 'how \_\_!, really \_\_!', and -à 'simply, just' (< ?el ~ ?à(1) with same meaning). These are merely affixed onto the verb they modify (whether it be Vadv, Vt, or the like); they are word-final. Examples can be found in 6.2.4.

11.2.2.3. Padv. Padv's function syntactically just like Vadv's (where they are described as Vadv's, see Chapters 6, 7, and 11.2.2.2 just above); the only difference is that Padv's cannot be inflected.

11.2.2.4. Pmod. Pmod's function syntactically like Vadv's but cannot be inflected. They modify the main verb and occur adjacent to it like Vadv's. Like Vadv's some Pmod's occur before the verb they modify, some after. 0's and '6t'wowh occur before the verb they modify, while t'wo - t'ws and k''s occur after (there is one attestation of t'ws before, either an error or showing t'wo - t'ws can occur in both places).

?&t'wewl is a compound, but within it t', we may be seen following a verb: % is an auxiliary verb used with past tense (see Chapter 6); were is left to precede the verb which follows the compound. Regarding the possibility that semantic groups help determine membership in groups of Vadv's (and Pmod's) which occur before and which occur after the verbs they modify, 0's and ?6t'wawl express "a degree of (un)certainty" and precede their verbs just like the similar group of Vady's. But t'we - t'we fits this semantic area too and yet follows its verb. kWf 'anyway' is semantically similar to 'el 'just, simply' (both expressing intention or attitude) and like ?al follows the verb it modifies. So three of the Pmod's confirm and one denies the idea of semantic determination of membership in classes which precede or follow the verb modified. If the single attestation of t'ws before its verb is multiplied in later data then it too would tend to confirm.

## 11.2.2.5. Dadv.

1. Dadv's modify V's and can be conjugated like Vadv's (by inflecting the Vdem's they contain). For example, Dadv-4.4-cc ?à is really Vdem-4.4-cc ?à (A) D since all Dadv's are really adverbial phrases consisting of Vdem (A) D. The one exception is tf, which is

unfortunately not attested with any suffixes yet (-cc or -4.4 for example). It is best to treat Dadv's as single syntactic units because they are positioned syntactically like Vadv's. Dadv's can be the M.V. or can modify other V's.

- 2. Some Dady's are followed by k'\*-4.8-s V-4.8
  where the V is the V they modify. For example:
  me łák'\* telf k'\*e cák\* \*\*. su ?fk'\*elà k\*ses
  Giy6ltx\*em 'He flew from far away and he makes
  his home here.'
- lí kwa es kwses kalskw 'He's living there.'
- 3. Sometimes Dady's are nominalized and continue to function adverbially (like some Vady's). For example: ?ewéts-l słéq'elex k'\*es q'épscs k'\*e ?f'.k'\*elà 'I didn't know there was going to be a gathering here.' and tewét k'\*e lf k\*es eé 'Who's there?' (this may be relativized instead and not functioning adverbially, i.e., 'Who is it that is there.'))
- 4. Sometimes A D is used adverbially (like some cases of A Vadv), as in k, we là after mf. For example: mf-ls k, we là 'Come here!', mfcel k, we là 'I'm coming here.', and cel mf k, we là k, celéqetet 'I came here yesterday.'
- 5. Like Vadv's some Dadv's occur before the verb they modify, some occur after, and some (when  $M_{\bullet}V_{\bullet}$ 's)

don't modify another verb. However the only Dadv's which precede the verb modified are those followed by k'"-4.8-s V-4.8 (i.e., 'f'·k'"elà and lf k"e θέ); when Dadv's are not followed by k'"-4.8-s V-4.8 they can only modify a verb by following it. For example: ±έq'et 'fk'"elà 'lay it/put it down here' sk'"ές k'"ές k'"éclex 'fk'"elà 'You can't see it here.'

- lec'6'mexw If to 06, lec'6'mexw If k'\*0 06 'It's/
  There's a different tribe here (lit. 'there (near)'),
   a different tribe there (far).'
- cel mélgeles lis k' f. l swéyel k ses sk etéx li te 66
  yut' f. lem 'I've forgotten how many days they were
  inside there.'
- If ?iyá·lem k; Wels k; Wéclex W lí te 06 'Can I see it from there (in that place)?'
- le hél.em tí 'They're on their way there., He's on his way there., She's on her way there.'
- le q'eq'ip if tf 'They're together over there.'
  mecx x xeté tf 'Come around there!'
- 6. Since all Dady's occur after the verb they modify and all have meanings having to do with direction (or location), they confirm the idea that semantic groups help determine which adverbials occur before and which after the verb they modify. All the Vady's

attested with the idea of direction or location occur after the verb they modify.

- 11.2.2.6. Past Tenses. This is the place to mention the syntactically formed past tenses: a.) preposing 4.4 at the beginning of the VP, b.) ?6-4.4 VP c.)  $(?f(\cdot), 1f(\cdot))=1-4.4 \text{ VP}, d.) 1f(-1-\epsilon-4.4 \text{ V}, (and))$ ?f.-1-4.4 Pmod V). These have already been discussed and exemplified in Chapters 4 and 6 (q.v.). The main point to be made here is that all these past tenses are expansions to the VP. added at the beginning of the VP and modifying it. There are several syntactic complications that should be mentioned also: 1. The ?f.1 past tense when found in subordinate clauses usually has le replacing %. in any person (not just third), i.e., k, W-4.8, 23-s le V. This is attested after Vq, after ?1.4-4.4 Vadv, and in numerous other examples. One example where ?f.+ is retained is the example in 4.2 on p. 305.
- 2. The ?i·\(\frac{1}{2}\) auxiliary past can also separate Vadv and the following main verb, as in ?i·\(\frac{1}{2}\)-4.4 Vadv k'\(\frac{1}{2}\)-4.8-s V-4.8 (examples also in 4.1 and 4.2 on pp. 304 and 309. The ?i·\(\frac{1}{2}\) doesn't separate them itself but causes the k'\(\frac{1}{2}\)-4.8-s subordination, apparently.
- 3. Even Vq can follow ?6-4.4 and ?1.1-4.4 as well as preposed 4.4 past tenses.

11.2.2.7. Vneg. ?ewets as explained earlier in this chapter can serve in several capacities and before a nominal without A can be seen either as an adverbial verb or as a main verb (see 11.2.1.8.3). ?awets seems to be a negative verb (perhaps only used in the 3rd person with -4.4x which is unmarked), but its status is still unclear. It is tentatively considered here with Vneg's. Negative verbs are also discussed and exemplified in 6.2.4. Inflection of negative verbs is discussed in 6.1.7 (subjunctive, imperative, and interrogative all are possible, as well as declarative), 6.1.8 (present, past, and future all appear with Vneg's), and 6.1.10 (internal syntax). The syntax of those constructions has been dealt with to some extent in the sections mentioned and will not be reviewed here. Instead, this section will concentrate on how Vneg's fit into the VP and the sentence and will round up whatever syntactic observations have not been made so far about negatives.

In most cases negative verbs modify a main verb, much like Vadv's do, but preceding any Vadv by occurring at the beginning of the VP. As discussed in the chapter on pronouns (4.9 especially), negative verbs for the most part take -4.4 subject inflection and require subjunctive subject inflection on the verb

following; the verb following can be the main verb or an auxiliary, ?f(\*) or lf(\*). When Vadv's are present before the main verb the auxiliary ?f(\*) or lf(\*) is obligatory; it, rather than the first Vadv, takes the subjunctive inflection; semantically this negates the Vadv, but in Halkomelem this negation also carries over the whole VP too. Double negatives are not used in Halkomelem.

Further indications that double negatives are not used are sentences like <code>?əwétɛ-l s-lim 'I didn't</code> pick anything.', and <code>?śwəcəl lfl k.\didn't tewét 'I didn't</code> see anybody.'

Like most Vadv's, Vneg's take the -4.4 subject inflection of the VP and require no  $k^{1W}$ -4.8-s \_-4.8 to be attached to the verb following, though they require the subjunctive -4.9 to be attached to the verb following. These observations are true even of  $^{2}$ 6we-Imper which is merely  $^{2}$ 6we-4.4<sub>2</sub> V-4.9. However, there is one case in which -4.9 is not applied to the verb following a Vneg.  $^{2}$ 6we-4.4- $^{2}$ 0 or  $^{2}$ 6we- $^{1}$ -4.4 can be followed by V without -4.9a on the V and without preceding the V with  $(11(\cdot), ^{2}(\cdot))$ -4.9b. Examples can be found in 6.1.8.4.6.

11.2.2.8. 1f Questions (Yes-No Questions). 1f can be added in front of almost any independent verb

phrase to form yes-no questions; lí receives the -4.4 subject inflection. li-4.4 of course cannot interrogate imperatives or subjunctives because they are mutually exclusive moods. It is unnecessary before other Vq's. And li-4.4 is not found before negative verbs or sk, wey 'can't, impossible' or h'á 'that's . it's him/her', each of which can only be made interrogative by the interrogative suffix -0 ~ - $\epsilon$ . (When sk, we'y is used as Vai meaning '(be) wrong' however it can be made interrogative by 11-4.4.) Other verbs which can be inflected for interrogative with -a ~ -ε are also attested with 11-4.4 interrogatives: this includes l&m, sk'i, and N > V. li-4.4 interrogative is also absent before past tense VP's: past interrogatives are formed inflectionally as follows: (?i., li.)-1-E-4.4 VP. ?i. and li. are auxiliaries which accept the past tense suffix -1; then the interrogative suffix - E is added and then subject suffix. So it seems that interrogative verb li is not used otherwise in the past tense. Another way to form a yes-no question (even in past tense) is by using 76th '(tag-question)' at the very end of the sentence.

Returning to 1f-4.4 questions, they are only attested inflected further with -cs 'future' (lf-cs sp'sp'&k' 'Will it float?', lfy-e-cs l&m 'Will he

go?', etc.). But 1f-4.4 can also interrogate VP's beginning with Vadv (1f weł 16m 'Is he (already) gone?') or VP's beginning with Vaux 1s or me (1f 1s hewe 'Is he going hunting?' (or 'Did he go hunting?' with ambiguous past translation) and 1f(ye) me kwetxwflem te sqwemfy 'Did the dog come in (into the house)?'). When 1f interrogative is used with a VP it questions the whole phrase not just the word it precedes. Thus the answer can be affirmative (1f. or '£'?s., etc.) if the hearer agrees with everything in the VP question; the answer can be negative (?6we. or some other Vneg) if the hearer disagrees with anything in the VP question.

11.2.3. Expansion of the Sentence With Appositives and Non-conjoined VF's (Prepositional phrases, Subjunctive phrases).

11.2.3.1. Apposition of N (Vocative) and VP (Parenthetic). Not many vocative constructions have been elicited, but a fir number have been heard at gatherings where Halkomelem is spoken (Elder's Neetings at Coqualeetza, spirit dances, funerals, banquets, etc.). On these occasions, as well as in the sentences recorded in field work, an N (usually proper name or kinterm) can be used vocatively by placing it without an article at the very beginning or end of any sentence.

The N may also be possessed, i.e. 4.6 N-4.6. Naturally an N can be so used as an entire utterance when calling someone, as well. Examples: 'iyéseq, méstex' to sk' waws 'Son (or Male friend), bring over/fetch the pail.' (méstex' is often used as an imperative without any imperative inflection), '£y tol sq' £lewel k' wels sq'oq' â ' k'£lwélep l siy£yo 'I'm glad to be with you, my friends.', l£w, sí·lo 'Hello, grandmother/grandfather.'

Farenthetically a VP may rarely be appended to the end of a sentence as the following examples show: wiyá0 k; was ?f.wálems to sté.xwel, t;ft; elem k; was ?f.wálems 'The children are always playing, singing as they're playing.' and cexw ?f.k; was là t;ft; elem 'You're here singing.' (cp. ?f.tcexw lf. tf.k; was t;ft; elem 'You were (over) there singing.' which shows the more usual method of conjoining the parenthetical VP), and perhaps stém to lf. tf.c;fc; esem 'What's that (over there) growing?'.

11.2.3.2. Prepositional Phrases. The composition of prepositional phrases has been mentioned in 11.2.1.3 (Vprep-4.4 O (S)). Vprep must be followed by an NP object (4.11 if pronominal) even though it is inflectionally a Vi; the syntax with an NP subject is Vprep-4.4 O S. Vprep-4.4 O (S) can be a complete

sentence or a main VP; as such it can be expanded like any other VP with a Vi. Prepositional phrases (when the Vprep is not a main verb) are attached at the end of another VP. They have the shape Vprep-4.43 0 (4.43 is unmarked after Vi's). Such a phrase is a dependent VP attached after the main VP without any conjoining k.W-4.8-s \_\_\_-4.8. Vprep-4.4 0 (S) cannot be a dependent VP.

i=>?& 'via, through' often has ye- 'travelling
by' prefixed to it; it remains a prepositional verb
when so prefixed however and occurs in Vprep-4.4 0 (S)
or 4.4 Vprep 0 (S) (past tense). The latter constructions have Vprep as a main verb.

One additional peculiarity of Vprep's is that of lf 'in, at, to', which forms a dependent prepositional phrase but then is deleted after demonstrative verbs, leaving the Vdem to carry the obligatory object. Thus sentences like cel '1' to 1616m 'I'm here at your house.' and le lf. to 1616m 'He's there at your house.'

11.2.3.3. Subjunctive Phrases. Subjunctive phrases consist of we-V-4.9 plus the remainder of the VP. The first V in the VP receives the subjunctive affixes whether it is a modifier or the central verb of the phrase. Subjunctive phrases are always dependent; they can either precede or follow the main VP

without further modification. When the main VP (independent clause) is followed by a prepositional phrase . the subjunctive phrase follows the prepositional phrase or precedes the main VP: Most types of verbs and VP's can be made into subjunctive phrases (even N's serving as V's). With Vq's however this subjunctive inflection makes them into relative constructions (as seen in 6.2.5, p. 349, q.v.); such relativization is attested for ?slécs, tel·écs, xWecé·l, xWecákWel, tewét, and stem. Of these, Peléce, tel.éce, and x wecak wel are made subjunctive with auxiliaries, i.e. we-(?i. li.)-4.9b precedes them. These subjunctive relatives function as NP subjects or objects of the main verb according to the regular rules of subject and object placement, but they lack the article which relative clauses otherwise begin with. ? Swe can be made subjunctive too, as ?ewes (li. ?i.)-4.9b preceding the verb in its VP. Thus a few examples like the following were found: ?awés lis (?E) sk'fyalap. lacal kwú·t 'If you folks don't want it, I'll take it.', and ye0estálx wesce welémet ewés mélgeleses 'He'll tell us when to go if he doesn't forget.'

A few more examples will illustrate the placement of subjunctive phrases: yáswe welźmżl 'I might go., I don't know if I'm going.'

- yáswe wesk; Wéyes k; Wels lém 'I don't know if it's impossible for me to go.'
- (?6we sh'fs, sk'"&y) k'"es meytálx"s wel&met sówq'tàlè
  '(He won't/doesn't want to, He can't) help us when
  we go find you folks.'
- lfcx st6q'el.ex welfmescs 'Do you know if he'll go?'
  temtfmcs welfmex t'fak' 'When are you going home?'
  (lit. 'When will it be when you go home?')
- welfs-1 sk'f k' els lém, lémcel 'If I want to go, I will go.'
- wemi'p c'shéyeł, 'ówecsp mi'p hák<sup>w</sup>ex<sup>y</sup> ts s'i0'em 'When you come to pray, don't come to use your clothes.'
- welfmex chargel, ? weex lfmex qelqeli.lest 'When you go outside, don't go get yourself dirty!'
- k'ács Bill k'<sup>w</sup>e méyeàx' wex<sup>w</sup>e'f's 'It will be Bill that helps me when he gets here.'
- (EB) cuł łq'ólex (wetewátes, we's lécz, westámes k' e le k t'ú'tes) 'I (already) know (who it is, where it is, what he took).'
- (EB) welfx w x weckwel 'wherever you're going'

  11.2.4. Expansion of the Sentence With Subordinate Conjunction of VP's. VP's can be made into relative clauses (preceded by A or by A-4.6a and the first word followed by -4.6b) or into regular subord-

inate clauses (preceded by k, 4,8a-s and the first word followed by -4.8b). In both cases the VF is nominalized and can be possessed by the pronoun suffixes to show its pronominal subject. The A also can be considered as a conjunction (for example see 9.2 where it is considered as a demonstrative conjunction or Dconj).

11.2.4.1. Relative Clauses. When a VP is relativized by a preceding A without -s nominalizer (kW00 lul lém or to q'éq'et'em for example), it is interpreted as subject or object according to the usual rules for VP's (given in 11.2.1). Thus VP can take the place of N in the formulae such as: Vi-S A N (A N is subject, except after Vprep and a few other verbs noted in 11.2.1 when A N is object), Vt-O-S A N, A N, (A N, is subject, A N, is object), Vt-O-S A N (A N is object unless the person and number differ between -O and -S; in the latter case A N becomes either subject or object depending on which it agrees with in person and number (the -S or the -O)), Vt-Pass A N, (A N2) (A N1 is object, A N2 is agent, i.e. "A N, was Vt-ed by A No"), Vt-Pass\_ A N (where the passive object pronoun suffix does not correspend with the person and number of A N. the A N can be the agent). When VP substitutes for N, VP's subject (shown by -4.6) must agree in number and person

with the -S or -O.

Now, within the VP which is so relativized, the V can be a Vi or a Vt. If it is a Vi (including middles, etc.) there is no further syntactic adjustment required: cel k'\*éclex\* k\*\*000 lullem 'I saw the one who went.' or 0'á0'eq\*\*ets to siyálex\*\*00 to q'éq'et'em 'The old man is sucking something (that is) sweet.' Thus the subject of the Vi is relativized. The relative pronoun in the English translation refers to the grammatical subject of the Vi in the relative clause. (Even tel s'f.k'\* 'what I lost', to sqé'ls 'what he stole', and te sq\*\*ê'l 'what you said, your words' probably work the same way. They appear to be loose translations, probably more accurately translated as 'my thing that was lost', 'his stealings', and 'your words, your talk'.)

If the V within the relativized VP is a Vt instead, the subject of the Vt is relativized with the added loss of the 3rd person possessive suffix which would normally show 3rd person subject. For example,  $\lambda$ 'á (to) '1± memfyet 'That's the one that was helping her.' (to usually omitted after  $\lambda$ 'á). When the object of the Vt is what is relativized, the subject of the Vt is marked by (retained) possessive pronoun suffixes (4.6) when the main clause is not a question.

If the object of the dependent Vt is relativized,

the subject of the Vt (of whatever person) is marked by 4.9b suffixes when the main cleuse is a question. The 4.9b suffixes are further attached to the auxiliary ?(·), and both (i.e. ?f(·)-4.9b) are inserted between the article and the Vt in the relative clause. For example: stém te ?f·xw Θé·yt 'What are you making?', stém te ?f·xw Nelét 'What is it you're holding?', tewét swiyeqe kwee ?íxw sé·wq't 'What man are you looking for?', h'á·k'wel méle kwee ?íxw hé·yet 'Is that my child you're talking about?', tewét k'we ?f·xw Θé·yetcet te swéltel 'Who are you making the net for?'.

When the main clause is a question but the relative pronoun refers to the subject of the Vt, the subject of the Vt is shown by possessive pronoun (tewét k, w, k, 1-1-s k, lém-s 'Who is it that wants to go?') unless the construction is Vt-0<sub>2</sub>-S<sub>3</sub>. In the latter case (Vt-0<sub>2</sub>-S<sub>3</sub>) the 3rd person possessive suffix is usually replaced by 4.4 (that is, le) preposed. For example, wet k, we le yéceseàmè 'Who told you?', or tewét k, we le yéceseàmè 'Who told you?', or tewét k, we le yéceseàmè 'Who cut you?'). (This replacement is necessary because it may be recalled that a third person subject acting on a second person object is never realized with Vt-0<sub>2</sub>-S<sub>3</sub> but by passives and other circumlocutions.)

In all these relative clauses the relative pronoun refers only to 3rd person S or O so far as I have attestation.

Relative clauses produced with we-Vq-4.9 or we-(11.,?f.)-4.9b Vq, as mentioned above, begin without an article. The Vq is intransitive and so the relative pronoun in English refers to the subject of the Vq. Sometimes however, a relative clause as described in this section, is conjoined to the Vq, as in the following sentence: (EB) cul lq'6lex westemes k. \*\* le k\*\*ú·tes 'I (already) know what he took.'
The 'what he took' is actually 'what it is' + 'something he took', and the westemes could be omitted without altering the translation.

11.2.4.2. Regular Subordinate Clauses. To subordinate a VP to another VP Halkomelem uses a Doonj to introduce the subordinate VP (i.e. the subordinate clause). The pronoun subject of the subordinate clause is never deleted, even if it is the same as that in the superordinate clause. In regular subordinate clauses the conjunction is k, 4.8-s -4.8 'that, to, for, while, as' or k, 8.4-4.8-s -4.8 'because' (see Chapters 4 and 9). k, (e) can be seen as an article nominalizing the VP that follows, and the -s can be seen as a version of s- which also nom-

inalizes what follows. The -4.8 is shown within the conjunction (or attached to the article) and suffixed to the first word of the VP which follows because possessive pronouns of that set occur in either or both places depending on their person and number. The -4.8 suffix(es) substitute for the -4.4 subject suffixes which would occur if the VP were independent rather than dependent (subordinate). In the 3rd person. kwses or kws (-s) can substitute for k, wes -s. This is true for 'because' as well as for 'that, to, for, while, as'. No further modification of the VP is necessary in most cases when it is so subordinated; it may even include a full expanded VP or just a bare verb or anything in between permitted by the rules given for independent VP's. Only in a few cases (mentioned in the next paragraph) are further modifications required.

Dependent VP's with past tense can have structures like (\(\kappa^\*\)-4.8-s \(?4\)-4.8-s \(?4\)-4.8-s \(?5\)-4.8-s \(?5\)-4.8 \(V\) ..., but more common is for le (preposed 4.4<sub>3</sub>) in any person to replace the \(?4\)-\(?4\), i.e., \((\kappa^\*\)-4.8\)1,2,3-s le 4.8 \(V\) .... For example, \(?4\)-2.5 \(?4\)-4.8 \(V\) tus \(?6\)? \(2\) k \(\mathreat{N}\) = 1 \(2\) fyem 'You were laughing softly.' or tent\(\mathreat{E}\)m k \(\mathreat{N}\)\* ss le \(2\)fyet 'When did you make it?'.

Since the subject marker -4.8 is an integral part of the conjunctions or subordinating nominalizers. the question arises as to what subject markers passives (without subjects) take. It turns out that they have 3rd person 4.8 subject markers: (k'e)k'Wes -s -(\*\*e)kWses - (\*\*e)kWs (-s). Many examples can be seen in 4.10 and some in 9.2. Third person subject for passives is also required after negative verbs; questions with 1f and auxiliary past tense construction with passive could be seen as requiring 3rd person subject (unmarked) or as having no subject markers. This is all perfectly consistent with the translation of the passive, often given, with an impersonal 'they' subject; it is also consistent with the use of the passive second person object affixes as a substitute for (and often translated by) a third person subject plus a second person object (which inflectional combination is not permitted).

The k, 4.8-s \_\_-4.8 subordinate clause is used in the same circumstances as most English subordinate clauses. It is also frequent in some constructions which would not be expected from the English translation. These will be mentioned in the next paragraph. But first a word needs to be said about where k, 4.8-s \_\_-4.8 clauses occur syntactically in respect to

non-conjoined VP's and appositives. k'\*-4.8-s \_\_-4.8 clauses occur after: the main VP, a prepositional phrase, or another k'\*-4.8-s \_\_-4.8 clause. They occur before or after subjunctive phrases, and before appositives, when these occur after the main VP.
'Because' clauses follow everything mentioned as far as attested, probably including appositives.

Subordinate clauses with k, 4-4.8-s \_-4.8 are frequent after sk, 6 y'can't', sk, 6 ye'can't?, is it impossible?', and 'iyá-lem'can, may' unless these are used as Vaj's (respectively 'be wrong; be impossible', 'be wrong?', and '(be) right, alright, okay'); after sk'f 'want' (and sq 6 lewel 'think'); when infinitives would be used in English with deleted subject; and after some Vadv's and Dadv's. These are a few of the places where English would perhaps not lead us to expect k 4-4.8-s \_-4.8 subordinate clauses to be necessary.

11.2.5. Expansion of the Sentence by Co-ordinate Conjunction of Independent VP's. Independent VP's, clauses and sentences can be conjoined by preceding the one to follow with a Pconj (conjunctive particle or particle conjunction). These conjunctions are discussed in 7.2 and include qo 'and, but, or' (also means 'then' after an independent VP or clause begin-

ning with (?e)w&s 'if not'; thus (?e)w&s VPindep qe VPindep 'If not VP then VP'), su 'so, then', qesu 'and so, and then', 'esu '(and) so', sul 'so (already)'. and gowl 'and (already)', as well as (go)k'a-4.8-su and so/then 4.8 (subject)', h'ace su 'then he will, so it will be him that', and qoh'a0'ssosu 'and then they say he/she/it/they, and so it is said he/etc. The last three are not strictly particles but are conjunctions: they contain qo or su which are Pconj's but also contain -4.8 (and in one case -cs) inflections within. The -4.8 apparently must be placed entirely within the conjunction and may not be attached to the first word following in 3rd person or plural. However, these inflected conjunctions remove the necessity and possibility of -4.4 inflection and -cs inflection and 0 c modification as VP expansion for the conjoined VP. After the inflected conjunction -4.4 is omitted, and -cs and 0's if present in the conjunction needn't be repeated in the VP to follow. Similarly, wet 'already' needn't (and probably can't) be repeated as a verbal modifier after sut or gowt.

The uninflected Pconj's quoted first however require normal -4.4 inflection in the VP's which they precede. Many examples have been given in 7.2. qe, su, qesu, ?esu and (qe)\*:a-4.8-su are the most common

co-ordinate conjunctions in texts and narratives and are even used to begin every sentence for long passages. Few speakers vary from one to the other for stylistic reasons very much.

11.2.6. Comparatives and Superlatives. Comparatives and superlatives have the syntactic structure of a VP or a VP followed by a prepositional phrase. Also within NP's, the N can be modified by a Vaj which is in turn modified by an augmentative Vadv like c'&c'el(ew) 'be very, really' or several others; a bare handful of Vaj's may have inflectional comparatives with reduplication (effe 'larger, bigger' and 'f'ex''l' 'smaller' -- the latter only because diminutive reduplication can be added to the Vaj 'ex''f'1 'small', making it 'smaller').

Comparative sentence structures found so far are: yel&wel-4.4 Vaj (NP) telf (4.11, 4.7, A N)
Vaj-4.4 (NP) telf (4.11, 4.7, A N)
4.4 yel&wel Vaj telf (4.11, 4.7, A N)

Superlative sentence structures found so far: c'&c'=1-4.4(-ew) Vaj t=1f (4.11, A N, probably 4.7) Vaj-4.4 k<sup>W</sup>su m6k'<sup>W</sup>cet
Vaj-4.4 we'fal (~ Vaj-4.4 'u'fal (EB))
and even yel£wel-4.4 Vaj (A 4.7)
and as an NP: A yel£wel Vaj N

(Presumably NP would follow Vaj in the first, Vaj-4.4 in the second, and we?al in the third of the above superlatives.)

## Examples:

- yəléwəl gél təlí k'é?sl@s 'He's worse than me.' yəléwəl xéyk' tlawèyèl təlí k'<sup>W</sup>ə cəléqə½(ə½) 'Today
  - is colder than yesterday.'
- yəlfwəl k'fqt təl xəltəl təlf t $\epsilon(?)$  swf 'My pencil is longer than yours.'
- yeléwel p'éq' tel swéts 'My seater is whiter.'
- yeléwel ?έy telf λ'έ?εlθε 'He's/She's/It's/They're better than me.'
- ?έy təli λ'έ?είθε 'He's/etc. better than me.'
- $hfk^W$  telf  $k^{1W}e$  spelwéż 'He's/etc. bigger than last vear.'
- (hfk<sup>w</sup>, ?e?ex<sup>w</sup>f·1) tel sc'électel telf te swé 'My chair is (bigger, smaller) than yours.'
- cəl yəlɛwəl lás təlí x'ələwə 'I'm fatter than you.'
- mi sette to OiOo 'Pick out the larger one(s)!'
- mi·sətle tə ƏiGə q wə ap 'Pick out the larger apple(s)!'
- ef.ee te (qwe?áps, se?áqwi) '(His apple, The fish) is bigger.'
- ef.00 to seeqi tlaqf.ys 'The sockeye is bigger now.'
- yəl&wəl qəl 'It's worse.'
- c'éc'el qél 'It's real bad., It's the worst.'

- q61 we?61 'It's the worst., It's real worse.'
  c'&c'el-ew lás telf \( \alpha \) 'Ellimet 'He's the fattest of
  us.'
- ?iyá·mexy telf kwsu mók'wcet 'She's the prettiest of all of us., He's the handsomest of all of us.' velfwel lás telf kws mók'ws 'He's fattest of all.'
- (NP) ?ivá·mexy ?u ?ál 'She's (the) prettiest.'
- (NP) ?syóm ?u ?ál 'He's (the) strongest.'
- yelfwel p'6q' to lileqey 'Mt. Cheam is the whitest.'
  velfwel gex tel swf 'I've got the most.'
- yel&wel 'iyá'mex' q'&'mi '(She's) the prettiest girl.'
  yel&wel k'\*ámk'\*em swfyeqe '(He's) the strongest man.'
- k'á yəléwel 'éy 'That's the best., That's better.'
- (AC) we fit the question of a person for example) (probably lit. 'too wide')
- (AC) we?al saseq t 'the youngest sibling'
- (AC) 1 sk'f te we'fi c'sc'fc'ek' x<sup>M</sup>fylem 'I want the shortest rope.' (probably lit. 'I want the too short rope.')

It may be that forms with we?fil ~ ?u ?fil are the preferred superlative in the Chilliwack dialect but not in the other dialects. Also note the blurring of the distinction between comparative and superlative in some constructions.

11.3. Interjections. Interjections occur in syntactic isolation (as a complete utterance) or followed by a nominal used as a vocative, or in cases of % 'oh!' and %c% 'oh-oh!' followed by A N (as attested so far). % 4.3 (N, Vaj) also occurs; other constructions probably occur, but so far are not attested. It seems likely from the examples seen that interjections must be sentence-initial. %th '(tag-question)' can occur as a complete utterance and refers to the previous sentence spoken, after a considerable delay; however %th is more an interrogative verb than an interjection.

11.4. Syntactic Limits. Many of the processes of syntactic expansion described can be done cyclically. But there are limits on the number of cycles permitted by each process and combination of processes. These limits should probably be described as claiming only that a certain number of cycles for a particular process are rare -- because the line is hard to draw between what is not attested and what cannot occur.

None of the following are attested in my data, thus suggesting syntactic limits or cyclic limitation rules:

\*A Vaj Vaj Vaj N (Vaj's can be put into subordinate VP's)

\*A Vadv Vaj Vaj N

- \*A Vady Vady Vaj N
- \*A N-4.63 A N-4.63 A N
- \*A N qe N qe N
- M ep M ep 0-\*
- \*NP ges NP ges NP
- (but Num qes A Num qes A Num qes A Num is permitted as the highest number of conjoined numerals allowed, as in 1999; '2000' and higher are unattested)
- \*A N qes 4.3 qes (A N, 4.3)
- \*A N-4.63 A N qe N qe N (conjoined possessors of a single NP)
- \*Vadv Vadv Vadv Vadv (Pmod)(Vaux) M.V. ...
- \*M.V. (Pmod)(Dadv) Vadv Vadv (Vadv's can be put into subordinate VP's)
- \*Pmod Pmod either before or after M.V.
- \*Dadw Dadw after M.V.
- \*VP, VP, VP (appended parenthetically as appositives)
- \*VP Vprep O Vprep O Vprep O (though VP Vprep O Vprep O is attested)
- \*VP we-VP-4.9 we-VP-4.9 (perhaps one 'if' and one 'when')
- \*we-VP-4.9 VP we-VP-4.9
- \*wa-VP-4.9 wa-VP-4.9 VP
- \*Vt  $k^{1W}$ -4.8-s  $VP_1$ -4.8  $k^{3W}$ -4.8-s  $VP_2$ -4.8 where  $k^{3W}$ -4.8-s  $VP_1$ -4.8 is S, and  $k^{3W}$ -4.8-s  $VP_2$ -4.8 is O, both for the same verb (Vt)

\*No maximally expanded VP attested as given in the first paragraph of 11.2.2.

There has not been time to try to elicit these constructions; some may occur which are not rare, but I believe most will prove to be rare and many non-existant due to syntactic limits. For some (as noted) alternate constructions can be used; it may be that alternate constructions must be used because the unattested construction cannot occur due to syntactic limits. Future field work should shed some light on these limits if they exist in Upriver Halkomelem.

## CHAPTER 12. SEMANTICS AND SEMEMICS

12.0. Introduction. This section contains an explanation of the theoretical and analytical approach used in Chapters 12 and 13. It is one I have developed in papers presented to several of the International Conferences on Salishan Languages held in the Northwest<sup>1</sup>. Since it has not appeared in print elsewhere and introduces a few new terms and notations a discussion of it begins this chapter.

Both phonetics and semantics impinge on the real world (using "semantics" in a narrow sense parallel to phonetics from here on and retaining "semplogy" for the broader field parallel to phonology). Phonetics is the analysis and description of the physical sounds of language, while semantics is the analysis and des-

<sup>1.</sup> Brent D. Galloway: "Some Similarities Between Semology and Phonology (With Illustrations from Chilliwack Halkomelem)," a paper delivered at the Sixth International Conference on Salishan Languages (abbreviated IGSL), Aug. 16-18, 1971, Victoria, B.C.; Brent D. Galloway: "Reduplication in the Chilliwack Dialect of Halkomelem (With a Sketch of Phonemics)." a paper delivered at the Eighth IGSL, Aug. 13-15, 1973, Dugene, Oregon; Brent D. Galloway: "Two Lessons in Time in Upriver Halkomelem," a paper delivered at the Tenth IGSL, Aug. 14-16, 1975, Ellensburg, Wash., printed in Lektos, Fall 1975, University of Louisville, Ky., Robert St. Clair (ed.), pp.56-66; Brent D. Galloway: "Anatomy in Upper Stalo Halkomelem, A Morphosememic Study," a paper delivered at the Eleventh IGSL, Aug.12-14, 1976, Seattle, Wash.

cription of the physical meanings of language. In both cases the linguist is faced with a continuum with a myriad of possible gradations. No matter how narrow a transcription he makes, a narrower one is always conceivable.

For example, Chilliwack [sx 6sm] is glossed as 'soapberries, Indian ice cream' with notes that they are red berries, ripen in late June (late July in the mountains). last about a month or two, grow on the roadside from Hedley to Penticton, B.C. (the nearest spot from Chilliwack), taste like bitter cranberries, can be beaten with water to form a white lather (for soap in the old days and for "Indian ice cream" made by adding sugar to the foam or in the old days sweet berries). To this could be added their size and shape, shape of leaf, size of bush, and the botanical name Shepherdia canadensis (L.) Nutt., not to mention the type of terrain they prefer, how they are harvested, how they are stored, and more details on how the "ice cream" is made (what was used to whip it with and in. how no grease can be present and how wooden paddles were used to eat them), etc.

So the semanticist, like the phonetician, must set operational limits on how narrow a transcription (in general) is useful in the field. Then he should use this narrowest semantic transcription, making careful inquiry into the meanings of each morpheme in its semantic context. This gloss is the semantic version of the phonetic symbol.

The similarity of distinctive features in phonology and semantic components (from componential analysis) in semology is fairly well known. All speech sounds can be described in terms of a finite set of articulatory or acoustic features. The success of semantic features or components has only been limited because the method has only been applied to a small number of tight semological sets (domains), such as kin terms, plant terms, color terms, classifiers, verbal paradigms, etc. But the domains are similar across languages to a certain degree, and the semantic features used in a given domain are often much alike across languages. This is very encouraging.

Perhaps the first step should be taking a complete inventory of the domains in a given language. In doing this, good anthropological descriptions (if available) can provide insight and many clues to the culturally relevant domains and probably also to some semantic distinctive features. A domain (like kinship terms, for example) may be analogous to the set of all stops or all spirants in a language. It also seems

to contribute its label ('plant term', 'kinship term', etc.) to the semantic components of each member.

Next each domain could be subjected to a componential analysis if allosemic patterns cannot be seen without it. Domains with semantic features in common could be compared, and perhaps some domains could be combined (similar to categories like obstruent?). Or the division into domains may be comparable to the phonetic divisions of stress, pitch, length, consonant, and vowel (except more numerous). The features involved in these phonetic divisions can only be combined into a single unified set (if at all) by somewhat ad hoc means. So it may also be that we will have to be satisfied with largely domain-specific semantic components.

There are probably several reasons why linguists have been reluctant to tackle componential analysis of all the domains in a language. There appear to be a very sizable number of domains and semantic components involved, although the number is surely finite and probably not as large as it seems. It seems to me that we could use semantic features as we use phonetic features: in rules only when they are economical and called for, and in grids showing members of domains when necessary (like phones in phonetic grids), other-

wise using the semantic symbols or glosses (parallel to the phonetic symbols). In other words, it is uneconomical and profitless to over-use features, either of sound or of meaning.

Componential analysis sometimes helps us to see patterns in allosemes and sememes. But first, what is an alloseme or a sememe? Allosemes of a single sememe are meanings which are in complementary distribution in the semantic environment and are semantically similar. (An alloseme may also be the only meaning of a sememe.) Allosemes are narrow glosses (in the sense of narrow transcription), while sememes are the broad glosses from which the narrow glosses are predictable. The following notation seems best to distinguish these glosses and levels:

semantic ['narrow gloss'] or ['alloseme']

sememic /'broad gloss'/ or /'sememe'/ (or the sememe can be shown as /'alloseme; alloseme'/ or /'alloseme, alloseme'/)

morphosememic //'morphosememe'// or//'sememe'-'sememe'//
Several clear examples are the following:

/q'\*61/ has allosemes ['cooked'] and ['ripensd'],

/x\*6ylem/ has allosemes ['rope (any kind, native or
white)'] and ['string (any kind, native or white)']

and ['stringy fiber from plant'] and ['thread (any

kind. native or white) ], and /smeye0/ has allosemes ['animal'] and ['meat']. With each of the three words the allosemes are in complementary distribution: ['ripened'] occurs only with 'plants' (harvested or not). ['cooked'] occurs with some of the same 'plants' when harvested and also with any other 'food caught or gathered' (including 'fish', 'meat', 'fowl', etc.); ['rope ...'] occurs with 'large objects that can be tied (like a cance, an animal, a log or pole, etc.)'. ['stringy fiber from plant'] occurs only with 'certain plants such as dogbane, cow parsnip, Indian rhubarb (dock), etc.', ['string (...)'] occurs with 'smaller objects that are tied or wrapped', and ['thread'] occurs with 'things that are sewn, actions of sewing, needles': ['animal'] occurs with 'living or dving mammals'. ['meat'] occurs with 'dead mammals intended for food'. If these semantic environments are not provided within the sentence or speech event and cannot be inferred, the word in question remains ambiguous; if it is important to find out which alloseme is intended, the hearer must either ask the speaker about it or wait to see if the necessary environment occurs before the end of the speech event. On the speaker's part there are also cases of intentional ambiguity: conversations where the exact meaning is unnecessary

or undesired, puns, songs, normal conversation where implications of all allosemes are desired, etc.

Fart of the information in allosemic rules is the distinctive combinations of meanings which each language groups together ('cooked' and 'ripened' for example are grouped together by Halkomelem but not by English). The other part is the semantic environments required to distinguish allosemes. In semantic domains patterns and pattern congruity can be seen in such combinations and environments.

A single morpheme can have several sllosemes, but can several morphemes also be allosemes of a single seneme? The answer is unclear. With xéyk' 'cold (of water, weather)' and 6'âtem 'cold (of mammal or bird), chilled' the language keeps separate two similar and complementary meanings. If there are sememic or morphological reasons for this separation (such as pattern congruity with other animate vs. inanimate divisions) the two morphemes could be separate sememes related morphosememically. If there are no such reasons, they could conceivably be allosemes of a single sememe or merely unrelated sememes with similar meanings. More work needs to be done to determin which is the case here, as well as whether several morphemes can be allosemes of one sememe.

The criterion of semantic similarity for allosemes allows one to separate homophonous morphemes. Semantic similarity of allosemes probably extends to the same extent as phonetic similarity of allophones.

For English /t/ we have allophones such as [th], [t], [r] (voiced flap r), and even [?]. The examples of Halkomelem allosemes above seem to show similar distance. In both cases too the speaker feels the "allo's" to be part of a single unit (the "eme").

Morphosememics forms a very important part of the semological description of a language. It is the chapter (or level) in which meaning changes as a result of derivational processes or inflectional processes should be described. These are often systematic, applying to large classes of morphemes and showing a high degree of structuring. All other systematic alternations of sememes resulting from combination with other morphemes, other lexemes (words), or taxemes (meaningful arrangements of order, meaningful transformations if the syntax is described with transformations) should be described here. Notice the word systematic. Small piecemeal alternations showing no pattern or structure are probably best left to the lexicon (just as some allomorphs are).

Thus when morphemes are attached to one another

to make up lexemes (words), either derivationally or inflectionally, the meaning changes (where they occur and especially where they are systematic) should be described. When words are combined into phrases, idioms, metaphors, etc., the meaning changes should be described (especially where systematic). When morphemes, words or phrases are combined with meaningful arrangements of order (taxemes, transformations, etc.), the meaning changes (especially where systematic) should be described. Morphosememics is the place for these descriptions.

For example, when {-0±p} 'tree, plant' is removed from any words for 'fruit-bearing plant', the resulting word refers to the fruit (derivational morphosememics). When Vq's are inflected with the subjunctive wo- + -4.9 they lose their 'interrogative' feature and become relativized (relative verbs or relative clauses) (inflectional morphosememics). A number of verbs (at least nine) combine with a following A-4.6 sq<sup>W</sup>£lewel-4.6 to form idioms which express 'attitudes'; these are systematic shifts of meaning exemplified by '2£y tel sq<sup>W</sup>£lewel 'I'm glad.' (< 'My thoughts or feelings are good.'), x£t tel sq<sup>W</sup>£lewel 'I'm sorry.' (< 'My thoughts or feelings hurt.'), hfk<sup>W</sup> tel sq<sup>W</sup>£lewel 'I'm conceited or proud.' (< 'My thoughts or feelings are big.'),

and me qelq&yl tel sq<sup>W</sup>&lewel 'I'm discouraged., I've lost heart.' (< 'My thoughts or feelings have come to be destroyed.')(these exemplify phrasal morphosememics). The change to 'ambiguous past tense' when 4.4 pronouns are preposed rather than suffixed to the verb, the change to 'object' of the verb when NP<sub>1</sub> is exchanged with the following NP<sub>2</sub> after a Vt, and the 'emphasis' of a Vadv or Vaj when it subordinates the verb or nominal it precedes (respecively) and modifies—all these how syntactic morphosememics.

It is interesting to notice the many parallels between morphophonemics and morphosememics. We can almost take statements about morphophonemics, substitute "sem-" for "phon-", "meaning" for "shape", "shape" for "meaning", and "sememic alternant" for "allomorph" and have workable statements about morphosememics.

The branch of grammar which deals with the phonemic shape of morphemes, words, and constructions, without regard to their meaning, is morphophonemics. (2)

The difference in the phonemic shape of alternants of morphemes are organized and stated; this constitutes morphophonemics. (3)

<sup>2.</sup> Charles F. Hockett: "A System of Descriptive Phonology," in Language vol. 18, 1942, pp.3-21, reprinted in Martin Joos (ed.): Readings in Linguistics I, fourth edition, 1965, Chicago; the quote is on p.107 of the reprinted article.

of the reprinted article.

3. Charles F. Hockett: "Problems of Morphemic Analysis," in Language vol.23, 1947, pp.321-343, reprinted in Joos: op. cit.; the quote is on p.230 of Joos.

Morphophonemics ...[covers] every phase of the phonemic shape of morphemes: the typical shapes of alternants, the types of alternation, and the various environmental factors (phonological or grammatical) which elicit one alternant or another of those morphemes which appear in more than one shape. (4)

Many of the morphemes have parallel sets of alloworphs with similar conditioning. It is, therefore, possible to make certain general morphophonemic statements which apply quite universally in the system. (5)

Within morphophonemics, processes such as assimilation, consonant or vowel merger, loss of consonant or vowel after an identical consonant or vowel, vowel harmony, affrication, and ablaut are described. Some of these have parallels in morphosememics: assimilation of sememes, merger of two sememes into one (common in derivation), loss of redundant sememes within phrases or sentences, and concord (agreement in gender or number) are parallel respectively to the first four morphophonemic processes mentioned.

Also within morphophonemics is the phonotactics or phonemic canon (treating permitted clusters of phonemes, phoneme distribution, and word and syllable structure). Within morphosememics similarly are found

<sup>4.</sup> Charles F. Hockett: "Peiping Morphophonemics," in Lenguage vol.26, 1950, pp.63-85, reprinted in Joos: op.cit.; the quote is on p.515 of Joos. 5. H.A. Gleason, Jr.: An Introduction to Descriptive Linguistics, revised ed., 1961, New York, p.116.

sememic co-occurrence restrictions, sememic structure of phrase and sentence, and distribution of sememes or classes of sememes within domains (showing what sememes are grouped into classes and domains, what sememic distinctions are made and emphasized, and how the world is divided up into sememes).

Some additional elements can be described in the semology: sound symbolism and onomatopoeia directly link semantic elements with phonetic ones. For example Upriver Halkomelem has: /q'á·w/ 'howl', /yé·t/ 'vomit', /pé·t/ [phá·th] 'blow' and /hésem/'sneeze' (all four are verbs), /xwét·es/ 'heavy' beside /xwáxwe/ 'lightweight', and sound symbolic tastes: /sésexem/ 'bitter', /q'éq'et'em/ 'sweet', /t'ét'ee'em/ 'sour, fermenting', /c'éc'esem/ 'tasty, good tasting but not sweet', etc. When these links are systematic they should be described in the grammar (when not systematic they can be mentioned in the lexicon). Also providing a direct link between phonetics and semantics are intonation and rhythm (for example super-lengthening 'really').

Meaning is also affected by things like "tone of voice", style-switching, and other sociolinguistic effects. Irony is the communication of a meaning opposite from the literal statement, through use of

such sociolinguistic effects. These could be described in the semology or in a chapter on sociolinguistic phenomena.

The semological system of a language clearly has effects on the other major levels of a language's structure: syntax (via meaningful changes in clause. word or morpheme order and via sememic co-occurrence restrictions), morphology (via semologically determined classes and allomorphs and via morphosememics), and phonology (via sound symbolism and lexical shapes). These effects have almost always been described in levels or chapters other than that of semantics and sememics or morphosememics. This is probably one reason why many grammars which lack semological chapters are nevertheless serviceable. There is enough semological information scattered throughout and of course in the dictionary or lexicon (where it is sometimes partially systematized) to enable the linguist and student to begin to comprehend the language.

The present grammar has much semological information scattered throughout previous chapters. Chapters 12 and 13 will organize some of it but not all. Chapters 12 and 13 will also be surveys of the semantics and sememics and the morphosememics of Halkomelem, rather than complete treatments. More in-depth treatment of Halkomelem semology will follow this grammar along with a lexicon, but for now there is only time for a survey of the semology.

- 12:1. Semological Domains in Halkomelem. Some of the semantic areas which appear to be domains are listed in this section. They can usually be seen as domains more clearly in their morphosememic features than in their allosemic patterns. The word "functions" in the list below means actions or processes which the nominal members of that domain do as members in the domain (the examples will illustrate). Some domains have been listed together under headings combining them because they share semantic components; this is analogous perhaps to combinations like obstruents or front vowels in phonology. At the end of the list are some inflectional categories which also seem to be domains. The following list is tentative and is bound to be incomplete:
- Land features and functions ('to rockslide', 'to cave off', etc.) and place names.
- Weather features (of air, sky, sun, moon, stars)
   and functions ('to rain', 'stop blowing (of wind)', etc.).
- 3. Water features (mainly of rivers) and functions ('be turbulent', 'subside (of high water)', etc.).
  - 4. Fire and its functions ('burn', 'go out', etc.).

- 5. Time periods and tense.
- 6. Flora (names, parts, functions).
- 7. Fauna (names, parts i.e. anatomy, somatic affixes, pesq tol 'body insults', body functions and dysfunctions).
- 8. Categories of humans (age terms, kinship terms, status terms (social, occupational, tribal, national), proper names, functions ('raise a child', 'marry spouse's sibling', etc.).
- 9. Religion and the spirit (spirits and powers, ceremonies, spirit dancing, Christianity, Indian doctoring, functions ('train to be shaman', 'give a burning', 'pray', 'cross oneself', 'cast a spell on s-o', 'blow on patient', 'to spirit dance', etc.).
- 10. Man-made things (Indian and non-Indian), their parts and names, how to make them, their functions; buildings, constructions other than buildings, household goods (for furniture, food, grooming, misc. (such as 'flashlight' (< 'lantern being squeezed'), 'purse', 'umbrella')), clothing and ornaments, musical instruments; devices and their parts and functions: for hunting + processing the catch (including even weaving and tanning), for fishing + processing the catch, for gathering + processing the harvest (including 'digging stick', 'tumpline', 'picking (fruit or leaves)', etc.), tools for making things ('hammer', 'awl', 'needle',

'net measure and shuttle', etc.), baskets (types, parts, how to make them, functions), canoes and boats (types and parts, how to make them, equipment, how to repair them, how to use them, etc.), modern transportation.

- 11. Food (types, how to cook).
- 12. Games and play (including 'make a point in slahal (the bone game)', 'the feather game', 'footraces', 'doll', etc.).
  - 13. Conversation and speech.
- 14. Emotions and feelings, attitudes and mental processes.
- 15. Senses and perceptions: visual and qualities of light, tactile perceptions, sounds, tastes, smells.
- 16. Other qualities (Vaj): descriptive, value judgements.
  - 17. Directions and qualifiers (adverbials).
  - 18. Demonstratives and Vaux's.
  - 19. Personal pronouns.
  - 20. Numerals.
  - 21. Transitivizers, intransitivizers, benefactive.
- 22. Moods: interrogative, subjunctive, imperative, declarative.
- 23. Voice: active, middle, reflexive, reciprocal, passive.

- 24. Continuative and plural.
- 25. Vprep's.
- 26. Interjections.
- 27. Pconj's.
- 28. Perhaps verb domains like: travel and motion, acting toward, act on inanimates, act on animates, change physical state (inanimates).

Some words may have memberships in several domains, just as in phonetics an [n] can be classified as a sonorant, resonant, nasal, etc. There are perhaps as many alternate ways of dividing Halkomelem words into domains as there are sets of words with semantic components in common. All may be relevant to our thinking processes and therefore valid. I have tried in the above list to find those which also share morphological features. I am sure many domains have been omitted because more words have yet to be gathered, and much work remains to be done on those already gathered. My files contain 8000 to 9000 words at present, but Bloomfield estimates at least 20,000 to 30,000 words in the speech of the adult speaker of English and many more if the speaker knows technical and learned words.

<sup>6.</sup> Leonard Bloomfield: <u>Language</u>, 1933, New York, p. 277.

Jespersen cites a number of figures: for English, 25,000 to 35,000 and some as high as 50,000 words are used by the average speaker without college; one professor had his students use dictionaries to estimate words they could define without context, and the majority reported a little below 60.000 words: another professor counted all the words he knew in Webster's Dictionary and found his vocabulary was 33,456 words: linguists investigating speech of Swedish peasants and Danish and French dialects agreed that 26,000 is probably too small a figure in each case; and a missionary in Tierra del Fuego compiled a dictionary of 30,000 words in the Yaagan language. I have estimated that Kuipers has about 9600 words (excluding inflections) in his two volumes on Squamish8, and this is all from one speaker in a matter of a few years of field work.

Halkomelem had and has many technical and learned words, and a dictionary of 50,000 words might have been compiled a hundred years ago. But today even the most fluent speakers seldom get a chance to speak and

<sup>7.</sup> Otto Jespersen: Growth and Structure of the English Language, 9th ed., 1938, New York, pp.224-227 of Doubleaay Anchor Books edition.

<sup>8.</sup> Aert Kulpers: The Squamish Language, vol. 1, 1967, The Hagus, (dictionary pp.245-400) and vol. 2, 1969, The Hagus, (lexicon pp.32-96).

hear their language more than several times a week, and the old crafts which required many technical and learned words have nearly died out, though some are being revived with non-speakers as students. I have been fortunate in having the weekly assistance of the Coqualeetza Elders Group (a majority of the fluent speakers of Upriver Halkomelem) and tapes of their weekly meetings since 1972 to gather vocabulary and texts. Through this group's efforts and the tapes of Cliver Wells who gathered vocabulary, ethnography and some stories, and my own field work, we may be able to preserve 30,000 words or so, eventually. This all goes to show that the list of domains above is bound to be incomplete and in need of later revision.

12.2. Allosemic Patterns of Several Domains.

12.2.1. Categories of Humans. Kinship terms show the clearest structure of the domains within this group. The following terms have been found:

sc'á·/'relative of any kind'/(Cheh.)

yá(')yetel /'blood relative'/

mè·l - mé·l /'father'/

tè·l - té·l /'mother'/

(mémel /'father (vocative), Dad (pet name)'/)

(tétel /'mother (vocative), Mom/Mum (pet name)'/; tét can also be used, short for tétel; té? /'Mom, Ma

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(slang)(pet name)'/)
m61(•)e (~ m61(•)e ~ m£1(•)e in some idiolects. less
   common) /'son, daughter, child (kinship term)'/
(mimele /'pet name for son or daughter'/)
si-le /'grandparent, grandparent's sibling, grandparent's
   consin!/
(sisele /'grandparent (pet name), grandparent's sibling
   or cousin (pet name)'/)
(si.si /'grandparent (pet name, perhaps baby talk)'/)
?f.me0 /'grandchild'/
sc'á med /'great grandparent, great grandchild'/
(sc'á·c'amacW /'great grandparent (pet name), great
   grandchild (pet name)'/. sc'emc'á·meqW /'eldest
   great grandchild'/, sc'emc'á·lemeqW /'eldest great
   grandchildren'/)
?SkWiyeqW (Chill.) ~ ?SkWiyeqW (other dialects) /'great
   great grandparent, great great grandchild'/
e'én'ived (~ 0'ér'ayed ) /'great great great grand-
   parent, great great great grandchild'/ (Note: a
   minority of speakers of Upriver dialects exchange
   the glosses on ? δkwiyeqw and θ'ép'iyeqw.)
támiyeq / 'great great great great grandparent, great
   great great great grandchild'/
syew&.l /'ancestors, lineage'/
sx wewfli /'parents, (ancestors)'/
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?flex /'sibling (Chill.), brother (Tait, prob. Cheh.)'/
sélk'a /'eldest child. (prob. also child of parent's
   eldest sibling)'/
ser'atel /'elder sibling, child of parent's elder sib-
   ling'/
sof o /'younger sibling, child of parent's younger sib-
(k<sup>y</sup>ε·k<sup>y</sup> pet name for sqε·q: sqiqε·q /'little younger
   sibling, little child of parent's younger sibling'/)
sa(.)segWt /'younger sibling, child of parent's young-
   er sibling'/
we?á·l sáseq t /'youngest sibling, (prob. also child
   of parent's youngest sibling)'/
sx wemli( ·)k w / parent's sibling, (possibly also parent's
   cousin)'/
kWivas /'uncle or aunt (used in respect, especially
    in the longhouse)'/
 sti wel /'sibling's child, (possibly also cousin's
    child)'/
 sweqee /'husband'/
 stá·les /'wife'/
 (Tait) cf·xW /'wife (slightly disrespectful)'/
 sk, Wito(w) or sk, Witew /'spouse's parent, parent-in-law,
    (wife's brother also?)'/
 sciwté. 1 /'child's spouse, son-in-law, daughter-in-law,
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sister's husband'/
sarWsf.le /'grandparent-in-law'/
smetter tel /'spouse's sibling. sibling's spouse'/
sx w? £16x / 'husband's sister, woman's brother's wife'/
y cape /'spouse of parent's sibling (i.e. uncle or
   aunt by marriage) 1/
sk, welwes /'(relative's/sibling's spouse's relative).
   in-law's relative, in-law from any side'/ (Cowichan
   dialect has 'parent/sibling/grandparent of child-
   in-law! for this word)
slac'élég /'spouse's sibling's spouse (for ex. husband's
   brother's wife), mothers-in-law of two sisters'/
sv£(.)tel /'widow. widower'/
wélém /'orphan'/
smestiy&t /'sibling of deceased parent'/
swelme(.)ył /'child of deceased sibling'/
6:8.ys /'relative of deceased spouse'/ (for example,
   mother, sibling, cousin or other relative of de-
   ceased wife)
c'txt.m /'deceased son or daughter'/ (root is xt.m
    'cry' because "your brother or sister is mourning
   along with you for your lost child", c'l- means
    something like 'along with' as in c'el(-) % y
    'sweetheart, someone you keep going with' and
    c'al(-)xWelmaxW 'neighbor')
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sxwemeiy&:\(\frac{1}{2}\), (some use) qsy&:\(\frac{1}{2}\)'deceased uncle/aunt/grandmother/someone who is respondible for ego directly or indirectly'/
c\(\frac{1}{2}\)!e m /'step-parent'/
texwmflem /'step-child'/
sk'wemflem /'child raised by someone other than parents'/
slec'oweye\(\frac{1}{2}\)!enalerisbling'/
sx\(\frac{1}{2}\)\*eye /'co-wife, female rival of wife'/
sx\(\frac{1}{2}\)\*eye /'ex-wife's husband, wife's ex-husband,
male rival of husband'/
'isl\(\frac{1}{2}\)!ex\(\frac{1}{2}\)!enalerisplice for most of these and diminutives
for some (indicated in parentheses), but they are in-

A number of allosemic patterns can be seen here.

1. Of the above 58 kinterms, 44 have ['male'] ~ ['fe-male'] allosemes. The ['male'] alloseme occurs after a 'masculine' article or swiyeqe 'male'; the ['female'] alloseme occurs after a 'feminine' article or s±611 'female'; some other semantic environments can also determine which alloseme is present, for example gender-marked words in another phrase referring to the kinterm (such as 4.3 pronouns, sex-marked proper names, etc.). sti.w61 /'sibling's child, (prob. also cousin's child)'/ → te (swiyeqe) sti.w61 'the nephcw' and 0e

(sielf) sti.wél 'the niece'. The 14 kinterms which have only one gender are mè·l, tè·l, mémel, tétel, tét, té?; swéqee, stá·les, cé·xw, sxyá·ye, sxyayé·seq, ?islé·ltexw; sxw?éléxy and Tait dialect ?élexy; these are all various words for 'father', 'mother', 'husband' or 'wife' except the last two words.

- 2. Words for ancestors more than two generations above ego each have an alloseme three or more generations above ego and an alloseme the same number of generations below ego; thus for each alloseme like 'great grandparent' there is one like 'great grand-child' for the same word. Since one alloseme is three, four, five or six generations above the other it is usually quite clear from the semantic context which alloseme is meant; such semantic factors as relative age, tense, actions which could be done only by a mature person or ancestor or by a child or descendant, matching reference to a person whose age is known to the hearer, etc. are diagnostic. This rule applies, of course, to sc'4'meq<sup>W</sup>, 76k<sup>W</sup>iyeq<sup>W</sup>, 0'ép'iyeq<sup>W</sup>, támiyeq<sup>W</sup> and their derivatives or inflections.
- 3. The word for 'grandparent', si'le, has an alloseme 'grandparent's sibling' which is predictable from features in the semantic environment such as: gender of the article if the grandparent and the sibling are

of different sex (the gender of the article indicates the gender of the sibling), who the descendants, family, and associates of the person in question are, whether the person lives where the grandparent does or where the grandparent's sibling does; present or future tenses can even bear on the determination of allosemes if the grandparents are dead but a grandparent's sibling lives (or vice versa). The mind of the hearer searches all such aspects of the semantic environment and makes an interpretation the moment the relevant information is found.

4. The words for siblings and 'grandparent, grandparent's sibling' (with the possible exception of '\(\epsilon\) each have an alloseme which refers to a 'sibling' and an alloseme which refers to the 'child of parent's sibling'; the sibling is modified in both allosemes by 'elder', 'younger', 'eldest', 'youngest', 'grandparent's' or whatever the gloss calls for. This applies then to: \$\(\epsilon\) h'a, \$\(\epsilon\) h'\) it is the to: \$\(\epsilon\) h'a, \$\(\epsilon\) h'\) it is applies then to: \$\(\epsilon\) h'a, \$\(\epsilon\) h'\) it is and inflected versions of these words. (It may also apply to sti well and \$\(\epsilon\) m'\) as it does in the Cowichan dialect.) By the rules given, \$\(\epsilon\) e' has allosemes ['younger brother, younger sister, son of parent's younger sibling, daughter of parent's younger sibling'] for ex-

ample. The semantic environments determining which alloseme is meant would be similar to those seen in 3. just above. With sqf.q for example a preceding feminine article, ee, would limit the allosemes to ['younger sister'] or ['daughter of parent's younger sibling']. The precise alloseme could then be selected if the hearer knew or could detect from the semantic environment of the speech event, for example, that no 'younger sister' existed, or that since the 'son of the parent's younger sibling' had just been discussed it must be the 'daughter of the parent's younger sibling' now being discussed.

5. There are nine terms for in-laws. One alloseme is reported by Elmendorf and Suttles but not yet attested in my data, ['wife's brother'] for sk! flow. But a pair of in-law words follow one allosemic pattern: smétex tel and sx flox both refer to sibling-in-law with two allosemes ['spouse's sibling'] and ['sibling's spouse']. It seems that sx flox has the same allosemic pattern as smétex tel and even has the same gloss except that sx flox also has a required ['female'] component (thus /'husband's sister,

<sup>9.</sup> William W. Elmendorf and Wayne Suttles: "Pattern and Change in Halkomelem Salish Dialects," in Anthropological Linguistics, vol.2, no.7, 1960, pp.1-32.

woman's brother's wife'/). The allosemes of slac'616q seem to require the slec'éléq to be the same sex as ego. i.e. ['husband's brother's wife, wife's sister's husband, daughter-in-law's sister's mother-in-law (ego is female)'l. It is unclear whether slec'éléq also has allosemes ['son-in-law's brother's mother-in-law (ego is female)'] or whether ['father-in-law (ego is male)'] can replace ['mother-in-law (ego is female)'] or whether ['child-in-law's sibling's'] can replace ['daughter-in-law's sister's'] in the gloss of the term. Also needing comment is the allosemy of sk, walwas including ['sibling's spouse's relative'], more generally ['relative's spouse's relative'] or ['in-law's relative'], and ['in-law from any side']. These are not all mutually exclusive terms and not all are clearly attested: some more elicitation seems required. The in-law terms can be divided into three groups: one including spouse's relatives (spouse's parent, spouse's grandparent, relative's spouse's relative, relative of deceased spouse), one including spouses themselves (child's spouse, parent's siblings spouse, spouse's sibling's spouse), and one including both spouse's relatives and spouses themselves (spouse's sibling ~ sibling's spouse, husband's sister ~ woman's brother's wife). This last observation is perhaps

morphosememic rather than allosemic.

6. There are eight kinterms with a 'deceased' component present; in four cases the 'past' suffix is present, but it is derivational rather than inflectional here (as discussed in 8.5). Five of the eight terms refer to a surviving relative of a deceased person and three refer to the actual deceased relative himself. Thus syé(.)tel 'widow, widower' is componentially 'spouse of a deceased person', welom 'orphan' is componentially 'child of deceased parents'. smestiy&t is 'sibling of deceased parent'. swelm&(.)yt is 'child of deceased sibling' (the root is welsm 'orphan' so the term may have implications of the death of the sibling's spouse as well, i.e. 'orphan child of deceased sibling'), and 0'6'ys is 'relative of deceased spouse'. c'lxè m remains as 'deceased son, deceased daughter', but I suspect the gloss is in error and should be more complicated than I have shown; qsy6.1 - sx wemeive is 'deceased person (other than parent, such as uncle, aunt, grandmother) who is reponsible for ego'. The Stalo way of viewing the first five of these terms is that you are related to a person who dies or you are related to a person through another person who dies. These terms are looked at as a process, perhaps as a suppletive inflection such as

(swéqoe, stá·les, cé·x
$$^{W}$$
)  $\rightarrow$  syé(·)tel

 $m \& el(\cdot) = \rightarrow w \& l \& m$ 
 $el(\cdot) = \rightarrow w \& l$ 
 $el(\cdot) = \rightarrow w \& l$ 

- 7.  $sx^y$ á·yɛ and  $sx^y$ ayé·seq show parallel allosemy: the first has allosemes ['co-wife'] and ['female rival of wife']; the second has allosemes ['wife's ex-husb-and'], ['ex-wife's husband'] and ['male rival of husband']. Both words combine multiple spouses with rivals.
- 8. A number of verbs share in some of the allosemic patterns mentioned and belong in the domain of kinterms as functions of the kinterms: 0'eyé'm 'marry one's 0'é'ye, marry a relative of one's deveased spouse', texwmelé'm 'to adopt', k'w'smet 'raise s-o', qelá'qtel 'be siblings to each other, be cousins to each other', x'xx'yá'tel 'two co-wives jealous of each other', qeqemátel 'having the same parents (as each other)' (< qeqemá' 'suckling'), sk'wek'atel 'separate in marriage', melyí 'marry', and others.

Age and status terms show more morphosememic patterming than allosemic patterning. I have so far found about 14 age terms ('baby', 'adolescent boy', etc.) and 62 status terms (9 social, 11 nationality or race, 8 tribal, and 34 occupations or roles). Half of the age terms have sememes with only one sex gender possible: the others either are unmarked for gender or more likely have allosemes of each gender, determined by semantic environment as with kinterms (to siya·loxwo 'the old man'. 00 sivá·lex o'the old woman', etc.). siyá·ləx wə, swíyəqə, and słé·lí all have adjectival allosemes as well, respectively 'old person; old (with animate or inanimate nominals)', 'man; male (with human or other animates, even plants)', and 'woman; female (of human, animate, plant)'. Social status terms show no particular allosemic patterning, but siyé·m has an adjectival alloseme as well as its nominal ones. 'chief (a leading person in the community, generous, wise, sought for decisions and advice), upper-class person; boss (since coming of the whites); rich'. The terms of racial or national status all also have allosemes both nominal and adjectival, as with pélomel 'Frenchman: French'. It is not certain yet whether tribal status terms also show nominal and adjectival allosemic patterning, but I believe they do. Occupational or role terms do not show any allosemic patterns that I can detect. though a few show interesting allosemes (xyalemil 'baby-sitter; "baby-sitter" of new spirit dancer during the dancer's initiation and

first winter dancing season, any of the workers who help initiate a spirit dancer').

Many verbs are related to the terms of social status and role or occupation. A verb like yéystel 'make friends' seems to belong in the same domain as social status terms siyé ye 'friend' and sxyemé l'enemy'. But many occupational or role terms belong in domains with the activities (as tewit 'expert hunter' and lexwshé we 'a person that always hunts' appear to be grouped more productively with the domain of hunting than with that of occupations). Personal names (other than nicknames) may belong in the domains of categories of humans since they are usually marked for sex gender as seen in Chapter 5, q.v.); but this would include proper names of some fauna which are characters in stories and texts.

12.2.2. Flora. This domain shows patterning of allosemes as well as morphosememic patterning. The following plant terms each show allosemes of a native plant and of a plant brought in by the white man or non-Indian: qwə?á:pəłp 'crabapple tree (native), apple tree', sk'wó·lmexwəłp 'wild trailing blackberry (rubus ursinus)(native), evergreen blackberry (rubus laciniatus)(native), Himalaya blackberry (rubus procerus)(all three refer to the whole plant with -ełp)',

má·lsem 'big marsh blueberry (native or commercial)', xy Ewed 'wild carrot (native). domestic carrot'. hoik, wiyoto 'kinnickinnick plant (native), pea vine, bean vine', sqf. w0 'arrowleaf or wapato (sagittaria latifolia)(native), domestic potato (solanum tuberosum)' (but the 'arrowleaf or wapato' is also called by an exclusive name, xwoq, w6.ls), so4.yeeqwelp 'raspberry plant (rubus pedatus perhaps)(native), domestic raspberry', t'emá·se 'wild rhubarb (dock, rumex occidentalis)(native), domestic rhubarb', qf.lqolp 'wild rose bush (rosa nutkana)(native), domestic rose', and sci.yè.ip 'wild strawberry plant (fragaria glauca or fragaria virginiana)(native), domestic strawberry plant'. This pattern doesn't apply to all plants however because st'exyet 'wild onion (esp. nodding onion, allium cernuum)' and ?ényels 'domestic onion', c'á·k' a 'skunk cabbage (lysichitum americanum)' and képec 'domestic cabbage' exist as pairs.

Further allosemy exists in that several terms include several varieties of native plant as does sk'\*6·lmex\*elp: t'f·mx\*elp 'gooseberry (ribes divaricatum, ribes lobbii)', sá·x\*el 'grass (any kind)', xómxem 'horsetail reed (equisetum arvense, equisetum fluviatile)', sk'fleq'\* 'chocolate lily, rice root', méeel 'dogbane, also a kind of grass used as hemp (as

dogbane is)', ?elflè'èp 'salmonberry plant (with yellow berries as well as one with red berries)',

xəxq'elf'èp 'False Solomon's seal (smilacina racemosa),

Twisted-stalk plant (streptopus amplexifolius), Hooker's
fairy bells (disporum hookerii)' (the latter two varieties of xəxq'elf'èp are also known as se'f'ms te
?facey 'snakeberries').

Another feature is that several plants are prepared as food or craft material or medicine, and the preparation (an alloseme) is called by the same term as the plant. Thus: sxw6sem 'soapberry, Indian ice cream', 0.6.xey 'white straw grass for basket designs (probably bluejoint reedgrass (calamagrostis canadensis))(used for both the growing grass and the scalded bleached product)', 0.116.1tel 'juniper, heart medicine', sqwelfp 'beard moss, black moss bread (baked underground till it forms a licorice tasting black bread)', 0.6xe0.ex 'stinging nettle (the plant and the cooked shoots with stingers poured off; these shoots are sometimes called Indian spinach)', st'£xv 'wild nodding onion (plant or bulbs)', and perhaps others.

12.2.3. Fauna. As with flora this domain has a great deal of morphosememic structure. There are no large-scale patterns of allosemy in the names of fauna except that almost all terms have both male and female

allosemes; in all but a few cases these can be preceded by słć·lí 'female' or swiyeqe 'male' to disambiguate; kinship and age category words can be used too where applicable (for example, stá·les 'wife', q'élemi 'adolescent virgin girls', etc.).

Some allosemy is shown by q'ayék'iyɛ 'snail, slug (rarely)', sê'ék' 'worm, bug (rarely)', spapələq'mfe'ɛ 'screech owl, saw-whet owl, pygmy owl', smoq'we 'heron, crane', xemximéls 'large hawk, chicken hawk', sq'viq'weyá·eel 'big older rabbit, jackrabbit', hé(·)wt 'rat, large vole', spé·e 'bear (generic), black bear, (probably excludes the grizzly which has separate names)', sméyee 'animal; meat'. If there is any pattern in these it is in xemximéls, sq'viq'eyá·eel, and hé(·)wt which link allosemes of 'large (generic)' fauna with those of (large) 'specific varieties'.

Within the area of fauna anatomy (including human anatomy) and functions and dysfunctions of the body there are several systematic features of allosemy. With somatic suffixes, there are at least three allosemes for each suffix: ['(body part)'](usually subject of the verb root they are attached to) in body function words and many place names, ['of the (body part)'] partitive in independent words for body parts, and locative ['on or in the (body part)'] elsewhere.

In addition to this overall pattern further allosemic patterns exist for sets of somatic suffixes.

In 'place names' or 'geographical features' the following suffixes take their figurative (and geographical) allosemes: -f.ws ['on the covering'], -eqW ['head'] of a river, -qel ['at head or source'] of a river, and also ['head'] of an island, and also in ['inlet of river'] < ['the inside'] + ['at the head (of the river)'], -es - -á.s ['face'] of a mountain, -6(1)qsel ['point or end'] of land/island/mountain, -á.0el - -(e)0el ['mouth'] of a river, -epsem ['neck'] of land, -eqel ['throat'] of a cliff or mountain, -(e)1ec - -16c ['bottom'] of island, river, etc.

Some somatic suffixes have figurative allosemes with a number of other nominals (-á·s, -6(1)qsəl, -eléxəl, and -f·wəl have such allosemes, as do -á·yeəl and -eqəl). The latter two are systematic in this; -á·yeəl ~ -eyéel ~ -eye(fl) has allosemes ['in speech'] and ['in music'] with language and music environments, and -eqəl has allosemes ['language'] in the environments of 'nationalities' or 'tribes' and ['voice'] in the environment of 'descriptive' words.

Some somatic suffixes have allosemes for more than one part of the body: -i-ws ['on the body, on the skin'],  $-\text{eq}^{\text{w}}$  ['on top of the head, on the hair'],

-á·les ['on/in the eye(s). on the eyelids']. -á·y0el ['on the lip. on the jaw']. -epsem ['on the back of the head and back of the neck' | (either a continuous area or ['on the back of the head, on the back of the neck']). -ces ['on/in the hand, on/in the finger(s)'].  $-\varepsilon \cdot q$  ['on the genitals, on the penis/male'](['on the penis'] may be subsumed under ['on the genitals']). -i.wel ['in the rump, in the anus, on the inside(s)']. -xyel ['on/in the foot, on/in the leg']. Sometimes semantic compatibility determines which of these occur (x&ym-leqW-t 'grab + on hair + on purpose + s-o' > 'grab s-o by the hair' since one is not likely to grab s-o by the top of the head), sometimes either one or both would fit (qet-i.ws-em 'take a sweatbath'), and sometimes one is chosen over another for derivational purposes (to produce the word for a given thing). It should be noted that although these are lexical suffixes functioning derivationally so that one would expect morphosememic phenomena, the above rules are sememic to determine allosemes. When all the allosemes are selected and combined a new meaning sometimes results from morphosememic rules (get-i-ws-em ['warm up (by fire or steam)'] + ['on the body, on the skin'] + middle voice/'oneself' -> 'take a sweatbath').

I can find little systematic in the allosemy of

independent terms for body parts (human or other fauma) and pésq<sup>W</sup>tel (body insult) words, unless it is the few words for body parts which can apply to different types of fauma (human, fish, animal, bird, insect and reptile, sk'éleqem (supernatural creature)) and are translated by different words in different cases. For example, k'Wél·éw 'skin, hide', q'Wx'sloes 'fingernail, claw', mélq' 'human uvula, fish heart'. A few pairs of terms also behave systematically such as x'we'éq'wx'yel 'ankle joint, sprained wrist' and x'we'éq'wx'yel 'ankle joint, sprained ankle'. But otherwise all the patterning in these areas are morphosememic and will be covered in the next chapter where anatomy is treated in detail.

Functions and dysfunctions of the body show a little more systematic allosemy. Allosemes are listed with all the terms in Chapter 15. One of the most systematic is the use of many of these terms with animals, birds, and less often fish, insects and reptiles, as well as with humans. The terms are divided in Chapter 15 into the five categories of fauna mentioned but more for convenience (though some terms belong exclusively to one type of fauna). Many of the words are glossed the same way in some or all of the five categories of fauna; the creatures may perform the func-

tions in different ways (especially from humans), but we have no terms in English or Halkomelem to express this. With some of the words English does have separate words and these may be allosemes. Examples include: gWE-1 'talk (of human), talk (of animal) (no better term applies in English), chirp/twitter/ cheep/coo/caw/cluck/quack/etc. (of bird), croak (of frog)'. qW6.lqWel 'talking together (humans), warning (birds such as ravens and owls, a different cry than q<sup>W</sup>ε·1)', q<sup>W</sup>əlayθi·ləm 'make music (of humans), sing (of birds), croak melodically (of frogs)', t'f'lam 'sing (of humans, birds), buzz (of insects, for ex. bee, mosquito, fly)', leqem 'whisper (of humans), hiss (of snake)', kwelexyt 'shoot s-o or s-th (of human actors), sting s-o (of reptile or insect actors)'. Another systematic feature of allosemy in this domain is seen with terms of health or sickness: ?£.yelex 'alive, in good health', me ? & velex 'come alive, come back to life (literally and figuratively); get better, get well', q'aq'ey 'sick; dying', sq'aq'ey 'sickness: dead for awhile'. These terms join the allosemes of life and health together, and those of death and sickness together. q'á.y also joins 'die, dead: paralyzed'.

12.2.4. Land features, Weather features, Water

features. These domains show small bits of allosemic patterning mainly in pairs of words. For example, tomex has allosemes 'dirt, earth, land (in any quantity from a clump to a continent), world' and sme'lt similarly covers 'rock (any size larger than a pebble), mountain' (the pattern includes plural and diminutive inflections of sme'lt, i.e., smelme'lt 'rocks, mountains' and smemelet 'little rock, pebble, little mountain'). There are no smooth grassy hills in the Upper Stalo area, all hills and mountains are basically 'rocks'. Perhaps in similar fashion sweyel has allosemes 'sky, weather, day'. Other than such bits of patterning there is little allosemic patterning observable yet; most of the semological patterning in these domains occurs in morphosememics.

12.2.5. Religion and the Spirit. There is morphosememic patterning in this domain aw well as a little allosemic patterning. One allosemic pattern is for the following group of words to have secular and spiritual allosemes, that is secular words are used also for a number of spiritual things or actions where one might expect special terms: smestfyex 'conscience, one's soul or spirit (which can be lost and recaptured', spaleq '16's 'corpse, ghost', le wet 'chase s-th away from s-o, cure s-o by Indian doctoring', s?6liys 'a

dream (ordinary type), a spirit vision in which one's spirit power or guardian spirit comes to him or communicates', q'éwe 'cane, staff (of s-o old or infirm for example), long staff or pole of a new spirit dancer (fashioned in special ways and decorated)', k' ax e 'box (ordinary type), grave box (pre-white), coffin', x' alemfl 'babysitter (ordinary), babysitter or worker in the initiation of a new spirit dancer', sqéqele 'baby (ordinary), new spirit dancer during his/her first dancing season'. Of course there are also many special terms which only have religious, spiritual, or ceremonial allosemes.

Another pattern is for the following words to have allosemes referring to different spiritual roles or functions: k\*\*\*ek\*\*\*fyseet 'training oneself to be an Indian doctor (shaman), training oneself to be an Indian dencer (spirit dancer)', heywfleq\*\* 'a burning ceremony song, a sx\*\*áyx\*\*ey song', syuwf·1 'power to do witchcraft for good or evil, a person with such power (witch)(he or she can shoot power or objects into people or remove these), ritualist (one who does burning ceremonies at funerals, purifies the longhouse or smokehouse upon its opening, etc.); an evil spell'. Perhaps similar is the word \*\*fixesom\* 'paint one's face red or black (for spirit dancing, Indian doctoring,

etc.)' since red paint implies a different power or strength of power or manner of obtaining power than does black paint: The word syuwf·l also shows a third pattern, words having both allosemes referring to a power or role or object and allosemes referring to a song, dance or spell done with same: syuwf·l (as glossed above), syúwfl 'spirit power or guardian spirit; spirit song', and sy way wey 's way wey costume (with pegged-eye mask), sy way wey dancer, sy way wey dance or ceremony' (inherited, done on special occasions by groups of dancers as a chorus of women (or men) sings a special song).

12.2.6. Man-made Things and Their Functions.
This collection of domains is very extensive, and most of the domains contain a number of morphosememic patterns as well as some allosemic patterns. I will just give a sampling here from some of the domains.

With household goods (and other domains as well) non-Indian things or functions of things are sometimes expressed by new derivations coined specially, by words borrowed from other languages (especially English, French, and Chinook Jargon), and sometimes by new allosemes of a familiar pre-white word. The former two methods will be discussed in morphosememics, the latter method is a case of allosemic patterns.

For example: sc'é·lectel had alloseme 'bench' and now also has 'chair'; sk'\*Iytel 'notched cedar pole ladder (to enter pit house, etc.), rope ladder' now also has 'wooden ladder, step ladder', q'\*6·l 'ear' now also has alloseme 'handle of a cup', ssk\*eléx\* has 'arrow' and 'gun', x\*fét has 'sinker (for net)' and 'lead weight, lead, bullet', x\*aq'\*elecem has 'big high-bow cance (lit. 'drags its behind')' and 'horsecar, streetcar, trolley'.

Among a number of words (of various derivations) for non-Indian man-made things (and their functions) are a number of words with multiple allosemes reflecting changing technology (since they were borrowed). These include for example: sk. Weca. stel 'mirror. window', (s) h'epi wel 'shirt, undershirt', sqemé lé 'bra, nursing bottle (lit. 'container of breast or milk')'. 6'qWá·lece 'gloves, mittens', sxWéq'Wellel 'necklace, scarf, neckerchief', papá·tam qWalá·y0atel 'flute, wind instrument' (lit. 'blown musical instrument'). q, wáq, wi 'fishing pole, fishing rod', sx wqέyqexáθet 'sled, toboggan, ice skate', sxwi@i ~ sxwey@i 'likeness, portrait, statue, photo, (can include also 'mask' and 'totem pole (of other tribes)", x6ltel 'pencil. pen, anything one writes with', t'aléstel 'blinders on horse, blinds, window shades', yeq i'l 'lamp. lantern, electric light', sx<sup>W</sup>0'ex<sup>W</sup>0 wi's 'sink, dishpan', sx<sup>W</sup>0'éx<sup>W</sup>0 lwetem 'washtub, washing machine', 'itetéwtx<sup>W</sup> 'hotel, bedroom', lenéwtx<sup>W</sup> 'bar or pub, liquor store' (< lém 'liquor' < English "rum").

Another pattern is seen in the domain of cances and boats, where words for positions in a cance and even numbers for counting cance paddles all also have allosemes referring to paddlers (especially in racing cances). Thus: q'lil 'bow of cance or boat, bowman, strokesman (in race)', 'fiwel 'middle of cance (on inside), middle paddler(s)', 'ilf(')q 'stern of cance or boat, sternman, skipper (in race)', lec'f'wes 'one paddle, one paddler', 'islf'wes 'two paddles, two paddlers', etc.

A number of terms of no particular semantic domain all have allosemes '(pattern in basketry design)' or 'pattern in weaving design'. Perhaps this is a sign that they form a separate domain or category in basketry to so mark them. Some that have been attested for basketry patterns are: t'exyelé 'arrowhead, arrowhead pattern in basketry design', sk'wiytel 'ladder, ladder pattern in basketry design'; for weaving goat-wool/dog wool blankets (sw6q'weat): qwsicel 'swallow (bird), swallow pattern in blanket weaving', smimayèe 'butterfly, butterfly pattern', smelmé·lt

'mountains, rocks, mountains pattern', xéleq't te sx"ex"á's 'lightning (lit. 'thunder(bird) opens his eyes'), lightning pattern in blanket weaving'.

12.2.7. Feelings and Emotions. Attitudes and Mental Processes. Allosemic alternation is fairly extensive in this domain. The allosemes seem to follow a systematic pattern of variation which I can only characterize as "slightly different in degree" or having "slight emotional differences". The following words show this variation: sxexes 'got one's mind made up. determined', q'élmet 'believe s-o, trust s-o', xlémet f tcf.wsmet 'tired of s-th. bored with s-th'. xwayfwelstexw 'make s-o happy, cheer s-o up', wawistéleomet 'jealous of s-o, envy s-o', seceléc 'eager, enthused' (Tait), (s) tatek, wiwel 'dumbfounded, speechless, overwhelmed, overpowered', tak, "f.wal ~ law&. + 'surprised, shocked', t'&t'eyeq' 'angry, stirred up, roused', q'e'f'lés 'wise, sensible', títeyex 'getting carried away doing s-th, keep doing s-th in a hurry to finish'. (Chill.) stək wték ~ (Tait) stəkték 'in a daze, day-dreaming', sqelwil(met) 'hate (s-o), hold a grudge (against s-o)', sx w ux w a 'ambitious, willing', sxáyh'0et 'hot-headed, violent', (s)xW(e)?Eywel 'good-hearted, generous, kind; easy-going, good-natured, qwaxwlamet 'get offended, get irritated' (qwaxwlex de la company)

'offend s-o'), leq'elámét 'know oneself, be confident', híq<sup>W</sup>t 'coax s-o, persuade s-o, invite s-o (to go for a trip)' (not 'invite to gathering'), ?£y to sq<sup>W</sup>£lewel 'glad; grateful, thankful', lép 'learn a lesson, give up'.

12.2.8. The Senses: Visual Qualities, Tactile
Feelings, Sounds, Tastes, Smells. I do not have extensive data yet on visual qualities, tastes, or smells
(about 20 terms, 8 terms, and 11 terms respectively),
but they show similar allosemic variations and morphosememic patterns to those shown by tactile qualities
and sounds. Most of the words in these domains are
verbs whose allosemes are clearly selected by their
nominal subject. This selection by nominal is much
clearer here than in many domains. The allosemes of
a given sememe here seem to differ usually in onset
or duration of action, in quality, or in intensity.

With sounds these differences and their selection by the nominal are shown in the following:

e'\varepsilon'\varepsilon \text{com} 'toll or peal (of bell), ringing (of ear),

jingle (of money, bells, etc.), rattle (of dishes,

metal, a ceremonial rattle or deer-hoof rattle, etc.)',

k^\varepsilon'\varepsilon \text{toar} (of waterfall for ex.), rumble (of

thunder, a quake, a slide), banging noise (of hammer
ing or other banging, of waterfall)', \(\varepsilon \text{fpk}\), \(\varepsilon \text{mem} \text{em} \) and

\* '£ma' Wels both glossed as 'make a crunching or cracking noise (of s-o chewing apple. of ice breaking, for example)', q'étxem 'rattling (of dishes, metal pots, wagon on ground, for ex.), scraping sound (like food being scraped off dishes)'. q'Wet'c'em 'sound of water sloshing around inside (bottle, cance, etc.), gurgling', c'ftxem ~ 0'ftxem 'clinking, tinkling (of glass, ice in glass, glasses together, dishes together, metal together)' (perhaps used of shells before the white man brought glass, dishes and metal). \* folog, " 'a pop. a shot! (\*, olk, eleq, continuous shooting or popping shounds (of guns, firecrackers, etc.)' and wet'sled, w 'a shot, explosion'). letem 'a blast or boom (and the earth shakes after)'. k', wpóx 'make sudden noise when s-th falls to the ground (and the sound echoes from the ground), to thump, make a bang (when s-o falls)'.

With tactile sensations the following are attested (allosemes differ mainly by quality here):
smelm61q 'lumpy (of ground, stick, etc.), rough (of
wood, opposite of smooth)', pf.ps 'woolly, fluffy',
e6tk 'm' 'tingle (like arm waking up), stinging',
e1fe1ek m' 'prickly (from s-th one is allergic to like
fir bark, wool, etc.), irritated (tactilely)' (op.
se1fk m' 'tiny slivers of fir bark'), t6x m' 'beating
(of heart), throbbing (of pain), throbbing pain',

6'f6'eqel 'muddy, soft and rotting (of fish)' (cp. s0'fqel 'wet mud').

With smells: papeq wem 'getting mouldy in taste or smell', papeg em - papec'em 'animal smell (of bear, skunk, dog, etc.), human smell'.

With tastes: t'£t':e0'em (sometimes t'£t':e0'em)
'sour (like berries or fruit), fermenting', c'£c':esem
'tasty, good-tasting but not sweet (of meat, nut,
etc.)', cfcexyem 'bitter (of dried fish, anything),
rancid (of butter, other things)' (unclear how this
contrasts with s£sexem 'bitter (of rancid peanuts, of
roots like cascara, medicines)').

12.2.9. Fersonal Pronouns. A number of allosemic patterns are found in this domain, and most have already been mentioned in Chapter 4. Pronouns of set 4.1 each have four allosemes, as exemplified by the first person singular member {?£19ɛ} 'it's me, I do, I'm the one that \_\_\_, I'm the one to \_\_\_'. The semantic environments distinguishing each of these are not yet completely catalogued (see 4.1, 9.5, 11.1.4.4, and 11.2.9), but the first two allosemes can occur as independent sentences (in answer to interrogative sentences with tew£t for example), while the latter two cannot. The fourth alloseme is found mainly with semantic 'future' (in preceding VP, following in VP,

or attached inflectionally to 4.1); the third is found more with 'present' and 'past'; both must have a following VP, while a following VP is optional after the first alloseme; the second alloseme cannot apparently have a following VP attached within its sentence.

Pronouns of set 4.3 have both subject and object allosemes (for te76106 'I, me'), which can be distinguished by syntactic placement which has semantic significance and by co-occurrence in the VP with either 4.4, 4.5, 4.9, or 4.10 of the same person and number (4.4 and 4.9 members are marked semantically as 'subject pronoun' and 4.5 and 4.10 members as 'object pronoun').

Pronouns of set 4.7 have two allosemes as seen in 1 sw£ 'mine, my own', etc. The first alloseme cannot occur before a nominal, but the second can occur either before a nominal or not. (Syntactic categories are semantically marked.)

Each third person personal pronoun, except those in 4.3, have six allosemes including the following combinations of features: 'male sg.', 'female sg.', 'gender unspecified sg.', 'male pl.', 'female pl.', and 'gender unspecified pl.'. This is seen in pronoun sets 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, and 4.10 (4.2 and 4.11 have no third person members of their own); with

4.1 the six allosemes are divided up between \*'á (singular allosemes) and \*'á(·)lem (plural allosemes). These are disambiguated only if there are co-referential words with number and gender features marked (@e stá·les 'the wife' for example, or 4.5 pronouns like @u\*'á(·)lem 'they (female)'). Actually it should be noted that the third person pronouns of sets 4.1 and 4.3 can also be considered (simultaneously) as members of pronominal demonstratives (see 9.6 and even 9.5).

12.2.10. Demonstratives. Demonstrative articles have been componentially analysed in 9.1. All the "m." articles (tə,  $k^W \theta \theta$  and  $k^{\Phi W} \theta$ ) have allosemes with 'masculine sex gender' and 'gender unspecified' and 'inanimate'; all the "p." articles (te and 0e) have allosemes with 'present and visible' and 'proximity unspecified'; all the "r." articles (k, we, k, we, kwse, k') have allosemes with 'remote', 'distant (and not visible)', 'abstract (or hypothetical)', 'indefinite', 'generic', and 'past (perhaps also deceased)'. So the "m.p." article to has allosemes: 'the (present and visible and masculine sex gender), the (proximity unspecified and masculine sex gender), the (present and visible and gender unspecified), the (proximity and gender both unspecified), the (present and visible and inanimate), the (proximity unspecified

and inanimate)'. 'The' is omitted (leaving the other features) in the environment of proper names or possessive pronouns. The other semantic features are shared with or transferred to the nominal which the article modifies. The semantic environments of these allosemes are given and discussed in 9.1 for each article and will not be repeated here.

Nominal demonstratives in 9.3 show the same allosemy to a certain extent since they contain demonstrative articles. Thus to là has allosemes 'this (person here (masculine or gender unspecified)), this (present and visible)(inanimate)',  $k^{10}$  là has 'this (abstract thing, manner, or place)', and  $k^{10}$ 6 has 'that person (masculine or gender unspecified, near, perhaps visible)'.

Two of the adverbial demonstratives in 9.4 also share the "p." vs. "r." distinction (11 to  $\theta \xi$  versus 11  $k^{16} = \theta \xi$ ), but they do not share the allosemy.

The pronominal demonstratives in 9.6 also share the distinctions of m., f., h., pl., absent (as in r.), and deceased (as in 'past' in r.), but the absent and deceased forms are separate forms and therefore not allosemes. However the m. forms ( $tú\cdot \lambda'$ 2,  $tu\lambda'$ 41em,  $k^W0\cdot \lambda'$ 3,  $k^W1\cdot \lambda'$ 3·2,  $tu\cdot \lambda'$ 3lèm, and probably also  $tu\lambda'$ 5 $\lambda'$ 9làm) all share the allosemy described above

with 'masculine sex gender' ~ 'gender unspecified' ~ 'inanimate'.

Demonstrative conjunctions with k<sup>9</sup>% and k<sup>9</sup>% have numerous allosemes ('that, to (infinitive), for, when (simultaneous), while, as'), but these allosemes do not pattern with those of other demonstratives, though they are predictable from the semantic environment.

The demonstratives of 9.3 and 9.4 as well as Vdem and Vaux ('be here', 'be there', 'go(ing)(to)', 'come (to), coming (to)') all have semological features of 'here' vs. 'there' which may be the verbal equivalent of "p." and "n." vs. "r." seen in the demonstratives above. However this is an example of morphosemenic structrue rather than allosemic structure.

12.2.11. Other Domains. There are allosemes and sometimes allosemic patterns in all the other domains of Halkomelem. For example, within adverbial words (directions and qualifiers) there is the allosemic patterning of tá·l ~ cúcu 'toward the river, away from shore (if on a river)' and cá·leq 'toward the backwoods, away from the river (if on land)'. The domain of descriptive qualities and value judgements (Vaj's) has many pairs of antonyms which show allosemic pat-

terning as well, but usually just within pairs of word, though larger patterns may turn up. The domain of prepositional verbs has three words with allosemic patterning: sk'epá'lweł 'below, under, underneath; the underside', scełsá'lweł 'above, over (in the air); the upper side', and sle'á'lweł 'across, on the other side; the other side'. Similar allosemes are conditioned by the same or similar environments here.

There are surely other allosemic patterns in the domains not discussed yet, and as more data is gathered (additions to glosses, refinement of glosses, more words for the lexicon) more patterns will become apparent. Time does not permit any more analysis here.

## CHAPTER 13. MORPHOSEMEMICS

13.0. Introduction. As discussed in the last chapter, morphosememics covers the description of meaning changes as a result of derivational or inflectional processes and the description of all other systematic alternations of sememes resulting from combination with other morphemes, other words, or meaningful arrangements of order. This includes the description of processes like assimilation of sememes, merger of two sememes into one (common in derivation), loss of redundant sememes within phrases or sentences, and concord (agreement in gender or number). Morphosememics also covers sememic co-occurrence restrictions, sememic structure of phrase and sentence, and distribution of sememes or classes of sememes within domains.

This chapter begins with a morphosememic analysis of the domain of fauna (including man), including names of fauna, parts (anatomy), and functions and dysfunctions of the body. This is rather lengthy because it is a fairly large domain and all the data is presented to show what is involved. Excluding fauna names, the domain might be called the domain of anatomy. After this comes brief sketches of most of the other domains (without listing all the data).

Then comes a discussion of the morphosememics of NP's (with and without expansions), VP's (with and without expansions), the sentence (with and without expansions), and the speech event.

13.1. Fauna (including Anatomy). Terms for fauna form the first part of this domain; they include human, animals, birds, fish, insects and reptiles, and supernatural creatures. Anatomical terms are numerous and form a distinct part of this domain. There are at least 120 independent words for parts of the body and nearly one quarter of these have lexical suffix equivalents. The independent words are morphologically and semologically analyzable to a surprising degree. The lexical somatic suffixes have already been listed in 5.2.1 and semantically analyzed in 12.2.3. Also part of the domain (besides terms for fauna, independent somatic words, and somatic suffixes) is a set of insult and joking words called pesquetal, which describe parts of the anatomy. Another part of the same domain is the set of terms for the anatomy of nonhuman creatures: fish, birds, animals, reptiles and insects; a game was even played with terms for fish anatomy -- to see who could name all the parts of the fish (there are at least 35). A final part of this domain is the set of functions and dysfunctions of

the body (including body functions, body products, illnesses, curing, and death).

## 13.1.1. Names of Fauna.

## Human:

mestiyex 'human, person' (see also the domain Categories of Humans)

## Animals:

sméve0 'animal: meat' (Chill.) p'fp'e6'elexel ~ (Cheh. Tait) sk' elyexel 'bat' (p'ip'a0' 'squeezing' or 'squeezed', -alexal 'on the arm') sk, Wik, Welyexel 'young bat' (Cheh., Tait) spe o 'bear, black bear' sxf.ylmət 'black bear with white spot on chest (male) (part grizzly)' (xé(·)yl- 'mark, write') sxévlmà(.)t 'female black bear with white spot on chest' ckwi.m spé.0 ~ ckwimeqel spé.0 'brown bear' (ckwi.m 'red, reddish-brown', -eqel 'on throat') xevh' flo ~ k' f cel 'grizzly bear' (xéyh' 'cold', possibly k, wiy 'climb' or k, wey 'hungry') syeq flmet 'name for male grizzly' (< yeq burn' because of burnt color of fur) sved filmetelat 'name for female grizzly' scelé•w 'beaver' sgec'ámes ~ sgc'àmès 'bobcat, wildcat' scelác'emes 'lynx' (regarded as a larger bobcat) pú·s 'cat' (< English) xep'i'cel 'chipmunk' (xeyp'- 'scratch, stripe', -i'cel 'on the back')("when they come out in winter and shake their mats that's when the last snow has wide flakes")

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sxsxep'f'cel - xexp'f'cel 'chipmunk with more than
   two stripes'
sxWewe 'cougar'
músmes 'cow, bull' (< Chinook Jargon)
mismesà·ll 'calf'
slak'iyép - sk'ak'iyép 'coyote'
k'slqtéle 'deer' (k'éqt 'long', -le- 'plural', -xyel
   'leg' here >-610)
swiyeqe k'slqtéle 'buck, male deer', słéli k'slqtéle
   'doe, female deer', méweč 'venison' (< Chinook Jar-
   gon)
tiftiele 'fawn'
gawestelat '(another kind of deer, perhaps female)'
   (possibly < gewes 'warmed face or side')(-telàt
   'female name')
saW(a)mé.v 'dog'
sq wiq we emey 'puppy'
g'aví c or g'ayiyec (sometimes c') 'elk'
sx "émecel 'fisher, possibly wolverine' (possibly -ecel
   'on the back')
sxewél ~ sxowél 'fox'
p'q'élqel 'mountain goat' (p'éq' 'white', -elqel 'wool')
sqwfqw - sqwf.qw 'groundhog, woodchuck, hoary marmot,
   whistler!
stidfw 'horse'
stigiwá·lł 'colt'
xágel 'marten'
csci •q •el (also in stories: sq yex) 'mink'
speléwél 'mole' (pfl-t 'bury s-th')
sx wivex ykyel 'moose: rack of horns' (prob. < Interior
   language)
kaWetal 'mouse'
 sécetec (or sétsetec) 'jumping mouse'
 so'610'e1 'muskrat'
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sa'£4%' 'otter'
kwašú 'pig' (< Chinook Jargon < French cochon)
sk'f'l 'pika, rock rabbit' (prob. < Interior Salish)
swetf yé ~ swet'f yé 'porcupine' (t' possibly error)
scewé0 'rabbit'
soioewèe 'small rabbit'
sqwiqwəyá.001 'jackrabbit, big older rabbit'
mál(·)ás 'raccoon'
hé( · )wt 'rat, large vole'
gélgel héwt 'packrat' (gélgel 'thief')
lemetú. (some speakers have metú.) 'sheep' (< French
   le mouton)
se food (a few say sc food) 'skunk, striped skunk'
sq, W60 'et 'squirrel'
soop'à.001 - qop'a001 'flying squirrel' (qop' 'cover
   an opening', -4.001 'on the mouth')
1(a)c'&m 'weasel' (perhaps < loc'- 'cut')
stecáve ~ stcáve (final e may be ε) 'wolf'
   Birds:
má·qw ~ (Cheh.) xwé·yleqw big bird, (waterfowl
   in a few idiolects, especially Cheh.)
mi.madw ~ (Cheh.) xwixwaladw or xweyxwaladw 'small
   hird!
q'eléq's 'blackbird (probably Brewer's blackbird)'
kwe.v ~ xexesvúwes 'bluejay, Steller's jay' (xexe
    'sacred', syuwe 'fortune-teller')
mexyc'el ~ (Cheh.) skyikyeky 'chickadee' ("when lots
   come you'll have visitors; if you listen to them
   they'll tell you how many children you'll have")
Kákel 'chicken' (< English)
Kaličkalsá 11 'baby chicks'
sli'm 'sandhill crane (taller than heron, some were on
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Sumas Lake, make odd sound when flying)'
spá·l 'crow, big crow (Western crow)'
spelal 'smaller variety of crow (Northwestern crow)'
smélx 00 - smélx c' dipper (little gray bird seen
   along creeks)
telégsel 'duck (cover term), mallard' (tá·l 'go out
   in the river'. -éqsel 'nose')
talilensel 'baby ducks'
lemélweł 'canvas-back duck'
leqleqem 'diving duck of some kind' (leqem 'dive')
sése 'pintail duck'
x wa . q , w 'sawbill duck. merganser'
qwiwft 'wood duck (has nest in stump)'
várwele 'eagle (any kind)'
sp'á·q'es 'mature bald eagle' (p'éq' 'white'. -es 'face')
sk, we'lx 'young bald eagle (before head turns white)'
c'ésgel 'golden eagle'
?Exe 'goose, Canada goose'
**x womflgel (f - 6) 'big Canada honker goose' (* 6x w
   'stiff, hard', -£lgel ~ -élgel 'feather, wool')
*'&k' xel 'small goose, brant'
mi.t' 'plue grouse'
skw60 kwe0, - sqw60 qwe0, - (Cheh.) skw60, willow
   grouse' (possibly cp. k, w60 am 'tippy (of canoe)'
   referring to its flight, or q, we'en 'defecating
   (of a bird or chicken)')
xemxéyméls ~ xemxíméls 'large hawk, chicken hawk (i.e.
   red-tailed hawk)' (xeym-et 'grab s-o or s-th')
xixemxéyméls ~ xixemxíméls 'small hawk'
sx watix 'helldiver, pied-billed grebe'
smoo, we heron (great blue heron, yellow-crowned night
   heron), crane'
pssk's 'hummingbird' (probably < Thompson language)
0'ec'61.e ~ c'61.e 'kingfisher'
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swák<sup>W</sup>el 'loon'
g'awg'ewelát 'female (name for) loon' (possibly g'áw
   'howl' + R 'plural action' + -elá·t 'female name')
g'awg'awalece 'male (name for) loon' (-alece 'male
   name')
?flel 'magnie'
of og 'nighthawk, rain crow' (name imitates call, bird
   is disliked "because it always asks for rain")
e 'éx We' ex 'osprey, fishhawk' (probably < 0'éx 'wash')
cftmexW ~ cf.tmexW 'horned owl, big horned owl'
spapeled 10's (& - e) 'screech owl, pygmy owl, saw-whet
   owl' (spaleq "10's 'ghost')
sqW6qWeqW 'white owl'
h'slatélec ~ h'eatélec 'pheasant' (h'éat 'long', -le-
   'plural', -élec 'rump, bottom, tail')
hemá. 'pigeon, wild dove'
kweyl 'quail' (< English)
sgéwegs ~ (Tait) skéwegs ~ (in story) sk<sup>w</sup>áwéls 'raven'
sk, Wak, Woed - sk, Wok, Woed 'robin (varied thrush)'
sx wfyk, - sx wik, bush robin, winter robin, (probably
   the "snowbird")
(Chill.) q, Walitaq ~ (Chill., Tait) % wa ~ (Cheh.)
   slilowve 'seagull'
wiθivs ~ (Tait.Cheh.) weθweθ 'snipe (Wilson's or common)'
sx W60x We0 'sparrow' (Katzie dialect, Lower Stalo)
o'Wsi.cel 'swallow'
sy 6. gel 'whistling swan'
słáła 'brown thrush'
słałex welqsel ma · qw 'wild turkey' (słałex welqsel 'snot
   hanging from its nose')
séwel 'whiskeyjack, grey jay, Canada jay' (séwel 'lunch,
   provisions')
təmələpsəm and t'at'ap'iqsələm 'large red-headed wood-
   pecker' (témel 'red ochre', -épsem 'on back of head
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and neck', t'at'ep'els 'pecking', -agsel 'on the
   nose', -em 'middle voice, its own')
6'f.g 'medium-sized woodpecker with red under wing
   (probably red-shafted flicker)'
c'f.g (probably same word as the last one) 'small red-
   headed woodpecker
t'émive 'wren'
tift:smive 'baby wren'
(Tait) sx W δx Wθε (Cheh. may replace θ with 1) 'type of
   larger brown wren!
   Fish:
smá(·)txW 'small bullhead, stickleback' (said to be a
   tattletale on fishermen)
mecá·s and ?é·yt 'ling cod'
spá·lcep 'grayling, gray ling (cod)'
k<sup>W</sup>átswi 'eel'
swi ·wa 'eulachon, oolachen'
seác "i (Eb and others se'ác "i) 'fish (any kind), salmon
   (any kind)'
c'ák" 'minnow', qéqemlà 'lots of minnows'
k<sup>w</sup>δx<sup>w</sup>əθ - k<sup>w</sup>δx<sup>w</sup>əθ 'coho salmon (silver salmon)' (ori-
   gin of the English term "coho")
se'imiye 'small adult coho' (se'i'm 'berry, fruit')
k, Wá·lex W 'dog salmon, chum salmon'
hóliya ~ (Cheh., Tait) húliya 'humpback salmon'
huhaliye 'small-sized humpback salmon'
seśqi 'sockeye salmon' (origin of the English "sockeye")
efegi or efegsy - césqsy - skwikwexyel 'small sockeye
    salmon'
q ecfwiye 'Fall sockeye salmon that comes up Chehalis
    River!
h'élxx el 'spring salmon (all kinds), tyee salmon'
    (h'elx- 'spotted', -xyel 'on fcot' > 'on tail')
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*'elxy Elowet 'jack spring salmon with black nose'
pá·q, (sometimes pá·k, ) big Harrison River or Che-
   halis River spring salmon'
speq'é·s - sp'eq'é·s (- speqé·s rarely) 'white Fraser
   River apring salmon' (p'6q' 'white')
spá·xem - spéxem 'March spring salmon, early spring
   salmon'
so wexem 'silver Harrison and Chehalis River spring
se'alál 'May spring salmon that goes to Chehalis Lake
   and back to sea!
sxwoq,w6.1 or sxwoq,w6w01 'Silver Creek spring salmon
   that runs in August'
géywx 'steelhead trout'
skWa( · )wec 'sturgeon'
q'á·xel 'big suckerfish, elephant sucker'
sk imae 'little roundmouth sucker (many have red stripes)'
   (c-kWf·m 'red')
o'Wf.c 'little suckerfish with big salmon-like mouth'
k, wsf.c 'cutthroat trout (have red gashes by gills).
   rainbow trout!
(s)Gexá·c 'dolly varden trout'
spipehe. 0, 'speckled trout' (sp'6.0, 'berry of red-
   flowering current')
slakWec 'white trout'
oW61.6s 'whale'
c'ellalemècel 'killer whale' (-ecel 'on back', -lélem
    'expelling air' < 'in one's throat')
   Fish?:
s?á(•)xWe 'clam' (some freshwater clams were had)
?f.vx 'crab'
?&.sx "hair seal' (came up even to Harrison Lake, were
   hunted with special spears, etc.)
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Insects and Reptiles:
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vyf.vsem 'ant'
+a+a'atiwel 'bedbug' (+(a)q'&t 'wide', -iwel 'in the
sxWəlitəməl méxyc'əl 'bedbug' (s-xWəlitəm-əl 'of the
   white man, in the white man's ways'. mex c'el 'louse')
sisəmáve ~ sisəmáyə 'bee'
m&kwmekw 'bumblebee' (m&kw' 'stout, thick around')
xexp'icel sisemaye 'yellow-jacket' (xexp'icel 'striped
   on back, scratched on back')
se'ák' worm. bug'
smimaye0 'butterfly'
smimex£0 'caterpillar'
tec'imels to pitxy ol 'centipede' (lit. 'comb of the
   salamander', lec'imél 'comb')
tá·10fws 'cricket' (tá·1 'go down to the river')
**flectx ol qwf.1, also spelwft qwf.1 'crane fly (fam-
   ily Tipulidae). "leatherjacket"! (* flegtx el
   'long-legged', qWé·l 'mosquito', spəlwél 'last
   vear')
h'flagtx yel g'ésg'es(e)cel 'daddy long legs, harvest-
   man (spider)(order Phalangida)' (lit. 'long-legged
   spider')
líllá·ys 'dragonfly'
t'át'elem 'flea'
x wex eye 'big fly, blowfly'
seméléc' - smémelec 'deer fly'
xWixWiy&ye ~ xWexWiy&ye 'housefly'
px fqs or px fyeqs - (Cheh.) k, x, f(ye)qs 'no-see-um
   fly. sandfly'
pípehà·m 'frog'
pehá·mó·l 'bullfrog, big pretty frog'
welck' 'little green tree frog'
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wexes '(a kind of frog), (probably sound of a frog)'
papex wi-qsal (or papax wiyaqsal) 'gnat'
h'emh'émxyel 'grasshopper' (< c'h'ém 'jump', -xyel</pre>
   'leg')
q'flq'elp'f'w 'inchworm' (q'el-p' 'tangle on itself',
   R 'plural action'. - f.ws 'on the body')
słéłi 'ladybug' (< słélí 'woman, lady')
cevi vex 'big gray lizard, alligator lizard'
nitx al 'salamander (small, red or brown)'
méxyc'el 'louse' (homophonous with 'chickadee')
?&pel ~ ?&.pel 'maggot'
aWf.1 'mosquito'
łaligwat (Cheh. łalegwat) 'moth'
xést'el 'nits'
k'ék'ele 'pill bug (black and gray, striped, found in
   drying fish and in meat)'
c'éxtel 'rattlesnake' (c'éx- 'sting', -tel 'device')
?sleg&.y 'slow-worm ("a slow-moving foot-long snake")
   (actually a blind, legless lizard, Anguis fragilis)'
   ("someone related or close to you will die soon af-
   ter you see it unless you throw it over your shoul-
   der and tell it to go to someone else and you name
   them")
c'ayék'iye 'snail, slug (rarely)'
?£łqey or ?£łqey 'snake'
q'ésq'es(e)cel 'spider' (cp. sx q'éyq'esecel 'netting
   shuttle (device for making nets)', q'éys-et 'tie
   s-th', sweltel-s te q'ésq'escel 'spiderweb' < sweltel
   'net')
pipehamá·li 'tadpole, baby frog'
t'pf 'woodtick'
mé0'elolwel 'woodtick' (mé0'el 'pus'. -q 'container'.
   -fwel '(on) insides')
x wax fye 'worm in salmonberry' (x wax - 'sudden')
```

13.1.2. Morphosememic Structure of Fauna Names.
The above list has 58 terms for animals, 73 for birds,
42 for fish, and 45 for insects and reptiles; this
list is probably not complete but covers a good proportion of the names and all I have found to date.
There are fewer words for fish and sea-life among
Upper Stalo dialects than among Lower Stalo dialects
because the Upper Stalo had little access to the sea
(being about 60 miles away at the closest point).

One feature mentioned in the last chapter was the use of slélf 'female' and swiyeqe 'male' as Vaj's to distinguish the sex of most fauna. The suffix -á·ll 'young' and several types of reduplication 'diminutive' can be used to indicate young fauna. A few terms have their own forms for male, female, or young, but these are the exceptions. Kinship terms and age categories can also be used with most fauna as with humans. stá·les 'wife', swéqee 'husband', q'é·mi 'adolescent virgin girl', q'é·lemi 'adolescent virgin girls', mél·e 'son, daughter', sqé·q 'younger sibling, child of parent's younger sibling', and even sex sile 'grandparent-in-law' are all attested with animals such as bears and wolves.

Derivational analyses have been given for over a third of the words for fauna. About ten more words are borrowed from Chinook Jargon, English, French, Thompson, or another Interior Salish language. The derivations discovered to date show the following morphosememic patterns:

1. Similar patterns are shown in all types of fauna.

2. Thirty-six of the terms are derived with somatic suffixes. The following occur in fauna names: -elexel - -elyexel 'on the arm', -eqel 'on the throat'. -f.cel - -ecel 'on the back', -ele (irregular) - -xyel 'on the foot or leg', -es (possibly --és) 'on the face', -élqel 'wool, feather', -á·0el (probably ~ -e0) 'on the mouth', -eqs(el) - -élqsel - -íqs(el) 'on the nose', -gel 'in the head'. -elec 'on the bottom, rump, or tail', -epsem 'on the back of the head and back of the neck', -f.wel 'on the insides, in the rump', -f.ws (with the s dropped) 'on the body'. Other known affixes used include several for 'proper names', for 'diminutive' and for 'plural': -met and -elécs 'male name'. -mat and -metelat and -telat and -elat 'female name', -(@1)wel ~ -6.wel ~ -owel 'canoe, vessel', -iye - -ays 'diminutive', R 'diminutive', R 'plural', derivational K (consonant ablaut without discernable meaning), all these in multiple examples, and -el '-like, -ish' and -tel 'device, thing for' in one example each. All these sememes merge to form new sememes, the names

of the fauna.

- 5. Ten terms are compounds of two words (phrasal morphosememics): both terms for 'brown bear', both terms for 'crane fly', and terms for 'packrat', 'bluejay', 'wild turkey', 'daddy-long-legs', 'bedbug', and 'centipede'. All feature a Vaj (or N acting as Vaj) preceding and modifying an N; the sememes change and combine into a single sememe (except perhaps for the terms for 'brown bear').
- 4. All the currently analyzable terms for fauna are named for a.) roles or habits of the fauna, b.) descriptions of appearance of the fauna, or c.) origin of the fauna; four remaining terms are either borrowed by loan translation or fit into category a. uncertainly.

Thus terms named for roles or habits of fauna are the following: 'grizzly' (k' fivel may be k' fixel < 'hungry' or 'climbs' + unknown affix; xxy file may < 'cold' + unknown suffix (cold-blooded?, cold-hearted?)), 'mole' ('buries'), 'packrat' ('thief rat'), 'flying squirrel' ('covers the mouth', so called because of the tradition that it will fly down, land on one's mouth and cover it as one walks in the woods at night), 'bluejay' ('sacred fortune-teller'), 'duck, mallard' ('nose goes down to the river'), 'sawbill' (perhaps 'pole a cance' if that describes its appearance as it

swims and catches fish), 'large hawk, chicken-hawk' ('grabbing many times'), 'osprey, fishhawk' (probably 'washing repeatedly'), 'large red-headed woodpecker' ('pecking with its own nose'). 'whiskeyjack' ('lunch, provisions' because it steals one's lunch or provisions), 'diving duck' ('diving into water many times'), 'killer whale' ('expelling air on the back'), 'frog' ('little blower', referring to blowing up of cheeks), 'bullfrog' ('blower (on a canoe?)', perhaps its canoe is a lily pad), 'no-see-um fly, sandfly' (possibly '(Indian doctor) blows on patient on the nose' since the no-see-um fly bites without being seen), 'grasshopper' ('jumps many times on legs'), 'rattlesnake' ('thing that stings'), 'spider' (perhaps 'net-maker' or 'tying many times'), and 'inchworm' ('repeatedly tangling on its own body').

Terms named for descriptions of appearance of fauna are: 'bat' ('squeezing (on the) arm' or 'squeezed arm'), 'black bear with white spot on chest' (male and female come from 'marked' + 'male name' and 'marked' + 'female name' respectively), 'brown bear' ('red, red-dish-brown' + 'bear', second term is 'reddish-brown on the throat bear'), 'grizzly' ('gone burnt' + 'male name' and 'gone burnt' + 'female name', referring to the burnt color of fur), 'chipmunk' ('stripe on back'),

'chipmunk with more than two stripes' ('striped on back'), 'deer' ('long legs'), 'mountain goat' ('white wool'), 'moose' ('rack of horns'), 'canvasback duck' (possibly 'fold in middle of canoe', comparing the duck to a canoe). 'mature bald eagle' ('white face'). 'golden eagle' ('growing in the head' (no longer 'bald'), 'big Canada honker goose' (probably 'stiff feather'). 'screech owl, pygmy owl, saw-whet owl' ('little ghost' since it is tiny, hard to see except eyes, and gives a ghost-like call; this owl also is the bringer of news of impending death of someone close to the hearer), 'pheasant' ('long tail(s)'), 'wild turkey' ('snot-hanging-from-its-nose bird'), 'large red-headed woodpecker' ('red ochre on back of head and back of neck'), 'spring salmon' ('spot or spotted on foot (i.e. tail)'), 'jack spring salmon with black nose' ('spring salmon in canoe'), 'white Fraser River spring salmon' ('white' + 'face?'), 'little roundmouth suckerfish' ('red' + ?, because many have red stripes). 'bumblebee' ('stout, thick around' + 'plural?'), 'woodtick' ('pus container on inside(s)'), 'daddy-long-legs' ('long-legged spider'), 'crane fly, "leatherjacket" ('long-legged mosquito'), 'bedbug' ('being wide in the rump', due to its flattened-out appearance'), 'slow-worm' ('a kind of snake', derivational consonantal ablaut removes it from being

glossed exactly as 'snake'), 'centipede' ('salamander's comb', from its appearance rather than its role).

Terms named for origins of fauna are: 'small adult coho' ('little berry', so called because of the tradition that this land-locked salmon originates as a berry dropped into the lake or water), 'speckled trout' ('little berry of red-flowering currant', so called because of tradition that it originates from the red-flowering currant dropping into the water), 'crane fly' ('last year's mosquito', because it resembles a giant mosquito), 'bedbug' ('white man's louse', presumably introduced by the white man), and 'yellowjacket' ('striped on back bee', may belong with terms named for appearance).

The term for 'ladybug' is apparently a partial loan-translation ('lady') with consonantal ablaut to shift meaning (s&é·lí > s&é·lí). The words for 'cricket' ('go down to the river' + ?, so called because "it calls you to go down to the river") and 'worm in salmonberry' ('little sudden thing' (?), possibly because it is noticed with sudden reaction when the berry is about to be eaten) may also be seen as expressing roles, as may the term for 'bee' (possibly 'little thing one is scared of behind one' < sísem 'scared of s-th behind one').

5. The terms for fauna in Halkomelem divide up the world of fauna in different ways than does English. These differences will be briefly considered here. The terms are divided first into 'animal' (sméya0), 'large bird' (má·qW ~ (Cheh.) xWé·yleqW), 'small bird' (mi·məq ~ (Cheh.) x ix vələq ), 'fish' (səáq i. some say se'áq wi), and 'worm, bug' (se'ák'). There are remainders whose place in this classification is uncertain at present; ? £ · sx w 'hair seal' apparently belongs with fish but '& yx 'crab' and s'a()x "o 'clam' may not. With insects and reptiles there appear to be many types that have few members or go their own way. Thus se'sk' includes five or six 'worms' (q'flq'elp'f'w 'inchworm', 'é'pel 'maggot', lec'imels te pitxyel 'centipede', xwexwiys 'worm in salmonberry', se'sk' 'earthworm, any other worm', and perhaps smimexé0 'caterpillar'. But it is unclear at present which 'bugs' s0'6k' includes and whether all insects are 'bugs' in its definition or just non-flying ones are 'bugs'. '£iqəy 'snake' apparently includes 'Eləq£'y 'slow-worm' (though zoologists claim it is a lizard), c'éxtel 'rattlesnake', and all other kinds of snakes. pípehà·m 'frog' apparently includes pehá·móweł 'bullfrog, big pretty frog', welck' 'little green tree frog', pipehama'll 'tadpole, baby frog', and all other kinds

of frogs. sisemáye 'bee' seems also to include xexp'ícel sisemáye 'yellowjacket' and mék'mek' 'bumblebee', while q'é:l 'mosquito' may include both words for the 'crane fly' (k'éleqtx'el q'é:l and spelwéł q'é:l), and q'ésq'esecel 'spider' includes 'daddy-longlegs' (k'éleqtx'el q'esq'esecel). In addition to these classifications, both ceyí'yex 'big gray lizard, alligator lizard' and pftx'el 'salamander' are considered lizards although there is no cover term; also the area of flies is well-elaborated, with terms for 'big fly, blowfly', 'housefly', 'deer fly', 'no-see-um fly, sandfly', and possibly 'gnat', though these lack a cover term as well.

With fish, terms for salmon are especially well developed, including 16 different types (and 18 names) at least. So far I have found two types of coho salmon, one of dog salmon, two of humpback salmon, three of sockeye salmon, and seven types of spring salmon with an eighth term as a cover term for spring salmon; there are likely more terms not yet elicited. Each salmon species (coho, dog (probably), humpback, sockeye, and spring) are divided into large and small (fry, small in size, or kokanee (landlocked)); the spring and sockeye (and perhaps others) have further terms specifying the time of year they run and the river

they spawn in or run up: color is sometimes mentioned in these glosses but is not consistently or diagnostically present. 'Steelhead trout' are sometimes classified as salmon by the Stalo. Salmon for such a substantial part of this sub-domain and the food cycle that the word seaq is often translated 'salmon' by the Stalo people, though it includes all other types of fish as well (even 'eel' and 'hair seal', 'whale' and 'killer whale'). Other classification and specialization within the sub-domain of fish includes five types of trout (with no cover term) and three types of suckerfish (with no cover term); these are differentiated by description and for the suckerfish also by size and type of mouth. The trout found so far include steelhead, cutthroat or rainbow, dolly varden. speckled, and white trout; the suckerfish so far include big suckerfish or elephant sucker, little roundmouth sucker (with red stripes especially), and little suckerfish with big salmon-like mouth.

With terms for birds, the division into big birds or small birds is most noticeable; there is no term for 'bird (of any size)'. Although diminutive R or -iye can be applied to almost any words for fauna, the following birds have been specifically mentioned with both 'mature large' and 'mature small' varieties:

crow, goose, hawk, owl, robin, woodpecker, wren. From their diminutive inflections the 'chickadee'. 'snipe'. and '(larger) wren' also seem to be considered as mi.meq or x ix eleq ismall birds. It seems most likely that baby birds would also be classed as 'small birds' (for example: čəlíčky əlsá·lł 'baby chicks'. telilegsel 'baby ducks', and t'ét'emiye 'baby wren'). Also in the area of birds, telegsel 'duck' includes at least six types of ducks (and more whose Halkomelem names could not be recalled yet): canvasback duck, diving duck, mallard, pintail, sawbill duck, and wood duck. yéx ele 'eagle (any kind)' includes three types of eagles: young bald eagle (before head turns white; this occurs after a year or two), mature bald eagle, golden eagle (often mis-considered an immature bald eagle, thus its derivation). Notice the use of the criterion of maturity or color of head feathers. There are also three types of geese or two types and a cover term ? Exa; it is unclear which is the case yet, but the latter seems most likely. There are also five varieties of owls found so far. three varieties named in one case by a single term (spapeleq wiθ ε 'screech owl, pygmy owl, saw-whet owl'); but there appears to be no cover term for owls. Loons are given proper names in two cases (in stories), but these don't seem

to be separate varieties of bird from swak el 'loon'; the raven is also given a name in stories (sk wawels), and other birds may also have personal names in stories.

With terms for animals, large and small varieties are only pointed out (by separate terms) in a few cases: sqelac'emes 'lynx' is considered a larger variety of sqec'ames 'bobcat, wildcat', and there are three sizes of rabbit: sqwiqwaya. eal 'jackrabbit, big older rabbit', sqew&@ 'rabbit', and sqiqew&@ 'small rabbit' (unless sqewέθ is a cover term). Diminutive R, -iye, and -á·ll provide the means of labelling the young of animals (sk, wfk, welyéxel 'young bat', sps@á·l} 'bear cub', pupsá·ll 'kittens', músməsà·ll 'calf', sqwiqwemey 'puppy', stiqiwa'll 'colt', kwikwešú 'little pig', hinewt 'little rat, little vole', for example). But one suppletive term for young animal exists, t'ft'ele 'fawn'. Bears are especially elaborated. sp€.0 covers black and brown bears and black bears with a white spot on the chest (part grizzly) but is said to exclude grizzlies. Black bears with a white spot on the chest (perhaps a special category because of a story which makes them ancestors of the Wealick family) can be named with two proper names (sxf.ylmet and széylmát) as can grizzlies (syeq filmet and syaq Milmetelat). But other animals are also given

proper names (qswéstelèt '(kind of female deer)', sqéyex 'Mink', sc'íq' 'an old wolf grandfather in a story') as well as birds (as mentioned above). The wolf is also addressed as siyé·m 'chief (of the wild tribe)' when the old-time Stalo see it and tell it to go on its way. Returning to bears, the grizzly bear (which eats humans) and the brown bear (which does not) also have two other names apiece, probably just in free variation. At any rate this makes eight or nine terms for bears. Chipmunks can be differentiated as to how many stripes they (x\*\*ep'f\*cel vs.\* sxex\*\*ep'f\*cel ~ \*\*exp'f\*cel).

A number of terms for fauna originated as imitations of the noises made by the creatures. Few have been positively identified yet, but several can be mentioned: pfq' 'nighthawk, the cry of a diving nighthawk', wexés '(kind of frog?), the noise a frog makes', and probably sqwfqw 'hoary marmot, whistler, groundhog, woodchuck'.

Not mentioned in this section so far are the terms for  $s \lambda^* \mathcal{E}$ legem creatures, which form a separate subdomain perhaps. The terms are:

s\*'£1eqem 'supernatural creature (often dwelling in lakes, if you see one you get x<sup>y</sup>á'lf's 'go into shock upon seeing a supernatural creature and vomit

- till one dies')'
- sk'fk'elegem 'a little supernatural creature' scicf? (Tait: also sci? and cicí?) '(slang term for)
- supernatural creature. monster'
- sésg'ec 'Sasquatch (hairy giant)' (possibly < ség' 'split in half' (half-man, or referring to rocks
  - he splits by throwing))(this term is the origin of the English term)
- e'6wxiys 'Cannibal Woman or Basket Ogress (catches children, puts them in a cedar slat basket, 0'6wex, on her back, and eats them in her cave)' (< 0'6wax 'cedar slat basket' + -iys 'diminutive')
- sf. + qay 'supernatural two-headed snake (head at each end, rolls up in the middle, lives in lakes) ( < ?is(£lə) 'two' with metathesis + ?£lqey 'snake')
- sx wax a.s thunder. Thunderbird (giant supernatural bird, when he opens his eyes it produces the lightning, when he urinates it rains, when he shakes his wings it thunders)' (a wind, spatpetel exel precedes him and is called 'thunderwind', lit. 'thing that repeatedly blows from the mouth on the arm') (sxwexwá·s < s- 'nominal' + xwexw- 'sudden' + -á·s
  - 'on the face' or 'in the face' or 'face')
- s?a.lmexw 'dark-skinned water pygmies (about two feet tall, have black hair, lived in a pool just below the little wooden bridge over the Coquihalla River with the sign "to Union Bar", near Hope; when Indian people went to spear fish in that pool on the Coquihalla, the pygmies would grab the spears and hold on to them; thus the pool and river was called k, wiyk, wiyé.le 'Coquihalla; stingy container'; such water babies also live in Chilliwack Lake and have been seen washed up on the beach and crying by

Stalo people now living) (-mex people, root meaning unknown)

syexam6 \* 'huge pretty frog with supernatural powers'
 (no story or further information has been obtained
 yet on this creature)(< sxfxe ~ sxfxe 'sacred' +
 peham6 \* or peham6we\* 'big pretty frog, bullfrog')</pre>

The derivations known of the above terms show 'Sasquatch' may < 'split in half' + ?, 'Cannibal Woman, Basket Ogress' < 'cedar slat basket' + 'diminutive', 'supernatural two-headed snake' < 'double snake', 'Thunderbird, thunder' < 'thing that's sudden in the face', 'water pygmies' < unknown root + 'people', and 'supernatural frog' < 'sacred big pretty frog, sacred bullfrog'. These may all fit into the categories of being named for role, habit, or appearance. They also include members related to most of the sub-domains of fauna: man-animal, woman, baby, bird, snake, frog.

13.1.3. Independent Words for Body Parts. In the following list, (s-) nominalizer is not listed in the analysis after the first few examples, and r.m.u. means root meaning unknown. Morphosememic patterns are described in 13.1.7.

- whole body s-lexw-f.ws (s- nominalizer, r.m.u., -f.ws
- half of body lq'-f.ws (lseq' half', loss of s unexplained, -f.ws 'of the body')
- head syéy·es, syáy·es (s- nominalizer, r.m.u., -es
- crown of head, top of head s-qWat-eleqW (r.m.u., -eleqW' of top of head')
- soft spot on a baby's head Tait: s-qe?-6leq\*, Chill:
  s-qe?-á·ls (qe? from qéyqe 'soft', -eleq\* 'of top of
  head', -á·ls 'fruit; round thing'; the Chilliwack
  word also means 'juicy fruit' from homophonous qe?-,
  bound form of qá· 'water')
- scalp, top of head s-t'ém-leq (t'em- 'chopped', -eleq 'of top of head')
- hair on head megel (possibly me '(come) off', -qel 'of the head')
- red headed, red hair c-k<sup>W</sup>i·m-eq<sup>W</sup> (c-'color', k<sup>W</sup>i·m'red, reddish-brown', -eq<sup>W</sup> 'of top of head')(rare
  Indians here were born with reddish-brown hair in precontact times)
- grey hair s-xá·ləm (compare xá·ləm-0ət 'turn grey (of hair)')
- curly hair s-q'elq'élp'-eq (q'elq'élp' 'tangled (of its own accord)', -eq 'of top of head')
- sideburns s-xel-p-els (xel 'to mark', perhaps -p is

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'hair', perhaps -éle is 'container', related to -élé
        'container')
a braid s-t'smxy-f.lc' (t'fmexy 'to braid something'.
        - £ · lc 'twisting around')
skull s-0'á·m-əqW (s-0'á·m 'bone', -əqW 'of top of head')
                              s-q, women's (r.m.u. unless q, wom 'come out at
forehead
        roots (of hair)' and -els 'intransitive' are involved)
back of head and back of neck tepsem (-epsem 'of back
        of head and back of neck'. r.m.u. or empty morph)
side of head sxW-?i.la (sxW- nominalizer, possibly xW-
         'pertaining to head', r.m.u. unless ?f.-le 'right here')
 evebrow Θá·mál (r.m.u.), eyebrows ΘamΘá·mál (C, aC,-
         reduplication 'plural')
 eye qél·ém (r.m.u.)
 evelashes lated to 0'ap- in
         e'éplex" 'blink', -tel 'device' or 'reciprocal')
 pupil of eye q'eyx-á·les (q'éyx 'black', -á·les 'of
         the eve!)
 blue eyes c'-mə0'-á·ləs (c'- 'color', mə0' 'blue',
         -á·les 'of the eye')(rarely full-blooded Indians were
          born with blue eyes)
  freckles, spotted face \(\lambda'\folian 1-\lambda'\folian 1-\lamb
          k'élx- 'spot', -á's 'of the face')
  face s-?á·0-es (r.m.u. unless -?á·0 'edge, point', -es
           'of the face')
  ear q'W6.1
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- hair in ear s-qwalqw61-6.lf.ys (C1aC2- 'plural', qw61'body hair', -6.lf.ys 'of the ear')
- nose m-éqsel (r.m.u. or empty, -éqsel 'of the nose')
  bridge of nose s-0'ém-qsel (s-0'á·m 'bone', -qsel 'of
  the nose')
- point of nose s-% lqsel (r.m.u. % or %1, -(1)qsel
  'of the nose' (also used figuratively for 'a point')
  nostrils (unattested except by Hill-Tout 1902 who has
- nostrils (unattested except by Hill-Tout 1902 who has what could be interpreted as sheq effects or sleq effect or sleq eqsel, probably heq event, -el- or -le- infix 'plural', -eqsel 'of the nose')
- hair in nose s-qwelqwel-qsel (s-qwelqwel 'hairs' as above, -qsel 'of the nose')
- cheek s-leqw-6le, sxw-?fle (s-lfqw 'flesh', -6le 'container', ?fle r.m.u.), cheeks sxw-?el?fle (C1eC2-'plural')
- mouth eá.0al (perhaps 0- 'big', -á.0al 'of the mouth')
  upper lip s-cal-á.y0al (cal 'above, upper', -á.y0al
  'of the lip or jaw')
- lower lip s-k'əp-f.y0əl (k'əp 'below, lower', -f.y0əl 'of the lip or jaw')
  - chin, jaw c'əm- $x^y$ -á'y001 (c'əm c'ɛm 'bite on, close teeth on, put in mouth', possibly the  $-x^y < -9x^y$  'transitivizer', -á'y001 'of the lip or jaw')
  - tooth, teeth y\$1.5s (r.m.u. or empty, -61.6s 'of the tooth')

- gums s-leqw-61.6s, s-leqw-f1.6s (s-lfqw 'flesh', -61.6s, -elfs 'of the teeth', e and i metathesized in 2nd word) tongue t-6xw0el (r.m.u. or empty, -6xw0el 'of the tongue') uvula m61qw, s-m61qw-eqel (m61qw also means 'fish heart',
- beard, mustache, hair on face qwil-iyé0əl (qwel or qwil
  'hair', -iyé0el < -á·y0əl 'on the lip cr jaw')

-egel 'of the throat')

- front of neck s-qW61-101, possibly s-q,W61-101, some say sxW-761-101 (qW61 'talk', q,W61 and 761 r.m.u., -101 'of front of neck')
- adam's apple s-xWəh-ámél-101 (xWəh r.m.u. unless 'big' or 'upstream', -ámél 'part or member', -101 'of front of neck')
- throat, gullet s-qelx $^{W}$ - $\ell$ -1 $\ell$  (s-qél· $\acute{e}$ x $^{W}$  'greedy, eats too much',  $-\ell$ -1 $\ell$  'container')
- windpipe, air passage s-qWo-hà·mól0eqW (s-qWé 'hole', possibly -á·mól 'part or member')
- shoulder sx<sup>W</sup>-?f·lɛ·m-ɛ·lɛ́ (?f·lɛ́·m 'carry on one's shoulder', -ɛ́·lɛ́ 'container')
- shoulder-blade kwakwéq'-tel or kweq'-tél (r.m.u., citations quite variable, but -tél ~ -tel 'recipro-cal' or 'device')
- arm t'é·lów, t'elt'é·lów 'arms'.(CleC2- 'plural')
- armpit sxw-?i-lexel (r.m.u., -elexel 'of the arm')
- elbow  $s-\theta$ 'əm- $x^W$ -əl $\xi$ xel ( $s-\theta$ ' $\hat{a}$ 'm 'bone',  $-x^W$  meaning unknown, -el $\xi$ xel 'of the arm')

- 582 wrist joint xwee'éq' -ces (also means 'sprained wrist') (r.m.u.. -ces 'of the hand') wrist bone, lump of wrist q w smx w - ces (q w smx w 'lumo'. -ces 'of the hand') hand céléxy right hand s'eyiw-ces (less common s'eyiws-ces)(s'eyiws 'right (side)', -ces 'of the hand', s-?Ey-iws itself < s- nominalizer, 'éy 'gooû', -i'ws 'of the body') left hand s-θ'ikwə-cəs (s-θ'ikwə 'left (side)'. -cəs 'of the hand') knuckles and joints of hand Chehalis: q wəmq wəmx w-cəs (C1 = C2 - 'plural', q "émx" 'lump', -ces 'of the hand or fingers') finger s-lex-ces (lex 'widen', -ces 'of the hand'), slélexces 'fingers' has -le- 'plural' infix) g, wx wel-ces ( c-q, wix w 'gray', -el '-ish', fingernail -ces 'of the hand or fingers') thumb məkw-á·məl-cəs (məkw 'stout (in strength)', -á·məl
  - 'part or member', -ces 'of the hand') first finger (index finger) Tait: mét'es-emél. Chill.
  - and Cheh .: mát'es-tel (mát'es 'point, aim', -á·mél 'part or member', -tel 'device, thing to, instrument') second finger sx w \( \epsilon \) y-ces (sx \( \epsilon \) ye '(in) the middle',
  - -ces 'of the hand'or fingers')
  - third finger melyi-ces (post-contact coinage)(melyi 'marry, married', -ces 'of the hand or fingers')

- little finger Tait: saseq t-ále-ces, Chill. + Cheh.:
  sáseq ces (sáseq t 'youngest child', -ále possibly
  related to we?álewe 'most', -ces 'of the hand, fingers')
- palm of hand sx<sup>w</sup>-?áθes-ces (sx<sup>w</sup>- nominalizer replacing s-. s?á·θes 'face'. -ces 'of the hand')
- hollow of hand xw-t'axw-es-ces (xw- meaning uncertain here, t'axw 'going downriver', -es 'on the face', -ces 'of the hand')
- collarbone s-t'l-116s-tel, t'l-116s-tel (t'el t'&l
  'go across', -f'les 'of the chest', -tel 'device,
  thing to')(t' = k' in both citations)
- chest s?-f.les (s- nominalizer, ? probably empty root
   to allow suffix to be attached and to erase locative
   meaning in suffix. -f.les 'of the chest')
- breastbone 0'x-émél (r.m.u. but related to that in 0'x-f·les 'inside brisket of meat' where -f·les is 'of the chest', -émél possibly related to -á·mél 'part or member')
- woman's breast, nipple, milk s-qemá· (qemá· 'suckle' < qá· ór qe(?)- 'water, liquid', possibly relevant is the slang term má?s 'milk' ( < \*? before consonants)
- woman's breast  $s-q^Wem\theta'$ -1:les ( $q^W$ ám $\theta'$  'lump', -1:les 'of the chest')
- stomach, belly k, w61: & (r.m.u., -61. & probably related to -6.1 & 'container')

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navel, belly button máx aye, máx aye (r.m.u.)
side of body Cheh.: s-taq'-á·lwat. Tait: s-'í·lwat
   (leg'- as in leg'ft 'wide' or as in lq'f'ws 'half the
   body', -á·lweł ~ ?í·lweł 'side')
right side of body' s'eyi ws 'i lwat
left side of body s⊖'fkWə ?i·lwə±
back ?á·qW-elec, ?éqW-elec (?á·qW probably 'comes out
   above or after', -elec 'of the rump')
lower back s-16q'-owel (leq' as in leq'st 'wide',
   possibly -owel 'of a canoe')
good figure, good shape 'ey-é:mec' ('éy 'good', -é·mec'
   ~ -£·mə⊖' 'standing up')
brain s-mé0'-qel (mé0' 'blue', -qel 'of the head')
heart 0'é·lé (r.m.u. or empty, -é·lé 'container')
lungs s-p'élx em (r.m.u., probably -em 'passive')
liver s-cél·ém
insides s-c'alxw-iwal (c'alaxw 'go into a quieter
   slough or backwater', -i.wel 'of the inside of the
   body')
gall bladder, bile leléc' (léc' 'full', possibly -el-
    'plural')
 kidney sməlt-£láqəl (s-m£lt 'stone', -£láqəl 'in the
```

'head of a river')
intestines, guts q'eq'éy (r.m.u.)
stomach (inside organ) k'"61.6 (as above in 'belly')

head', 'head' is used in a figurative sense too, like

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bladder séx<sup>w</sup>ε-tel, séx<sup>w</sup>e-tel (Jimmy Harris 1966 has
   k, "£ · səl)(séx "e 'urine', -təl 'device, thing for',
   séx wetel also means 'urinal': - é·lé 'container':
   Harris's word is unclear unless root is k, burned
   (of a person)')
flesh s-líaW
blood s-060iyel (r.m.u.)
fat s-lás (also means 'grease, lard, oil')(lás 'be fat')
bone s-0'á·m
marrow s-lés-xyel (s-lás 'fat', -xyel 'of the leg')
backbone xək, W-áləs, xək, W-aləs-əwic (xək, W narrow,
   wedged in', -ales meaning uncertain unless 'eyes',
   -ewic 'of the back')
       lówóx (r.m.u. or empty, -ówóx 'of ribs or slats')
 cord, nerve cord, tendon, muscle %'a'imél, k'a'imel
    (r.m.u.)
 vein tétεθ (r.m.u.)
 pulse ½k, w-ém-éws (¿á·k, w 'to fly', -ém 'strength',
    -6ws 'of the body')
 skin, hide k' " fl. fw. k' fl. fw
 hair on body q^{W}il-óws, q^{W}eyl-óws (q^{W}il ~ q^{W}eyl 'hair',
    -śws 'of the body'), s-q^{W}əlq^{W}£yl-əws 'hairs all over
    body' (C1 eC2- 'plural')
  hip #eq'-léc (#eq' 'wide', -léc 'of rump or bottom')
       s-1-61ec (r.m.u. or empty, -61ec of the rump or
     bottom')
```

- penis s-x<sup>y</sup>éle (possibly related to -x<sup>y</sup>el 'of the leg or foot', possibly root x<sup>y</sup>- refers to 'genitals' as in 'head of penis', 'have an erection' and 'vulva, vagina', see below)
- head of penis (Jimmy Harris 1966 gives  $s-x^{y} + \cdot \cdot \cdot \cdot q^{w}$ 'head of penis' and  $x^{y} + \cdot \cdot \cdot \cdot \cdot \cdot q^{w}$ latter is obviously the root of  $s-x^{y} + \cdot \cdot \cdot \cdot q^{w}$ , while  $-sq^{w}$  'of the top of the head' is probably the suffix)
- foreskin (Jimmy Harris 1966 gives sx -26.q' 'foreskin', root is related to 26q'al 'choke on bone or something solid')
- testicles mfccel (may be singular), s-mfmecel (may be plural)(r:m.u.)
- vulva, vagina  $x^y \not\in -wal (x^y or x^y \not\in probably 'genital', -wal or \not\in wal 'canoe or vessel')$
- pubic hair q w & y1-eq (q w & y1 'hair', -eq 'of the genitals')

  womb, uterus s-mélè-tel (méle ~ mélè 'child', -tel 'de
  vice, thing for')
- afterbirth s-?á·q<sup>W</sup> (?á·q<sup>W</sup> probably 'comes out above or after')
- thigh s-peté·lép (r.m.u.)
- leg and foot s-xél·a (r.m.u.), sxaxéyla 'legs and feet' (irregular reduplication 'plural')
- lower leg 6'em-f.wéc-xyel (r.m.u. unless < s-6'á.m
  'bone', -f.wec meaning unknown unless related to -ewic
  'on the back', -xyel 'of the leg and foot')

- knee s-q'ep'é·l-00-tel (q'ep' 'cover over', -é·l unknown,
  -0et 'itself' or 'verbalizer', -tel 'thing for, device',
  compare q'ep'é·lectel 'a cover or lid')
- kneecap s-q'ep'ál-eq<sup>w</sup>-tel-x<sup>y</sup>el (q'ep' 'cover over', -é'l unknown, -eq<sup>w</sup> 'on top of head', -tel 'thing for', -x<sup>y</sup>el 'of the leg')
- shin  $s-\theta$ 'ém- $x^{y}$ el ( $s-\theta$ 'á·m 'bone',  $-x^{y}$ el 'of the leg') calf of leg  $q^{y} \in \lambda$ 'el- $x^{y}$ el (r.m.u. but probably related
- to q'&q'ex' 'convulsions' via 'being wrung tight' or some such root meaning, -x = 'of the leg')
- ankle joint xwee'6q'w-xyel (also means 'sprained ankle')

  Tait: xwh:-el6c-xyel (r.m.u. in both cases, -elec 'on
  the bottom', -xyel 'of the foot or leg')
- lump of ankle qwemxw-xyel (qwemxw'lump', -xyel 'of
  leg or foot')
- joints in foot Cheh.:  $q^W = mq^W = mx^W x^Y = 1$  ( $q^W = mx^W$  'lump',  $C_1 = C_2$  'plural',  $-x^Y = 1$  'of the foot')
- top of foot cl-icel-xyel (cel 'top, above, upper',
  -icel 'on the back, of the back', -xyel 'of the foot')
- toe s-lex-xy el (lex 'widen', -xy el 'of the foot'),
  slélexxy el 'toes' (-le- 'plural')
- big toe  $mek^W-\acute{a}\cdot m\acute{e}1-x^V=1$  ( $m\acute{e}k^W$  'stout',  $-\acute{a}\cdot m\acute{e}1$  'member or part',  $-x^V=1$  'of the foot')
- little toes kwemkw-á·mel-xyel (r.m.u., possibly mékw'stout', unusual reduplication C2e-'plural' or 'diminutive', -á·mél 'part, member', -xyel 'of the foot')

toenail q'wxw61-xy91 (q'wxw-el 'grayish', -xy91)
sole of foot sxw-?&+0es-xy91 (sxw- nominalizer replacing s-, s-?&+0es 'face', -xy91 'of the foot')
arch of foot xw-t'&xw-es-xy91 (xw- meaning uncertain

here, t'áx 'going downriver', -es 'on the face',
-x 'el 'of the foot')

heel e'-eléc-x'el (r.m.u., -elec 'on the bottom', -x'el 'of the foot'), e'eceléc-x'el 'heels' (r.m.u., 'plural' by irregular reduplication, -elec and -x'el as above)

No words yet obtained for: lines on the hand, waist, spleen, appendix, or clitoris.

# 13.1.4. Pésq tal 'anatomical insult'.

This category contains descriptions of the anatomy of people which are used as insults or jokes. Pésq<sup>W</sup>t means 'to insult someone by referring to his body'. The list below is not complete since new examples are still turning up:

x<sup>W</sup>eá·q<sup>W</sup> 'big head' (x<sup>W</sup>- prefix used only with the head
and its parts, meaning unclear, θ 'big', -á·q<sup>W</sup> ~ -eq<sup>W</sup>
'in top of head')

xweá·s 'big face' (xw- m.u., θ 'big', -á·s 'in the face')
xweá·θel ~ θehá·yθel 'big mouth' (xw- m.u., θ and θe 'big',
-h epenthetic intervocalic, -á·θel 'in the mouth',
-á·yθel 'in the jaws or lips')

sx<sup>W</sup>ef·qel 'loud voice' (s- or sx<sup>W</sup>- nominalizer, perhaps
x<sup>W</sup>- as above, 0f· 'big', -eqel 'in the throat')

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960 of 'big heads' (01. 'big', reduplicative infix -C10-
'plural', -eq' 'on top of the head')

060 ccs 'big hands' (01. 'big', -C10- 'plural', -ces 'in
the hand')

060 cx of 'big feet' (01. 'big', -C10- 'plural', -x of 'pl
```

- OiGohá·les 'big eyes' (Oí·, -Clo-, -h as above, -á·les
  'in the eve')
- @i@ehf.ws 'big bodied people' (@f., -Cla-, -h as above,
   -f.ws 'in the body')
- eehfwel 'big rump, big asshole' (00 'big', -h epenthetic, -fwel 'in the inside, in the anus')
- Ochélec 'big rump' (Oc, -h as above, -élec 'in the rump')
- θέ·q 'big penis' (θ 'big', -έ·q 'in the genitals' or 'in the male' or 'in the penis')
- sméqsel 'big nose' (s- usually nominalizer but here 'big',
  méqsel 'nose')
- sk' "61.6 'big belly' (s- here 'big', k' "61.6 'belly')

  q "eme'f.les 'big breast(s)' (q " 4.me', 'large lump', -f.les

  'in the chest')
- $\mathrm{Hik}^{W}$  to  $\mathrm{sm6lq}^{W}\mathrm{agel}$ . 'Your uvula is big. = You talk too much.'
- qelá·mex<sup>y</sup> ~ qelełá·mex<sup>y</sup> 'ugly, bad-looking, sloppy in looks, walk or dress' (qel 'bad', -eł m.u., -á·mex<sup>y</sup> 'in looks, -looking')
- yeesleq "pointed head' (y-á.e 'point', -sleq" 'in the

```
top of the head!)
sp'ip'eleq" 'flat head, flattened head (as with cranial
   deformation done to babies by some Northwest Coast
   tribes)' (sp'ip'el 'flat, flattened' < p'il 'flatten'
   + s- and -C_1 a- participial adjective, -eq^W in the
   top of the head')
cfleow 'bushy and uncombed hair' (cfl 'high, upper,
   above', -eq 'in the top of the head')
xwk'a gtes 'long face, morose' (xw- m.u., k'é qt 'long',
   ablaut to a. derivational. -es 'in the face')
xwpapá·s 'hair all over the face' (xw- m.u., pé·ps 'wool-
   ly', -á·s 'on the face', Aa of ε vowels before -á·s)
obles 'bad face, cross face, bad expression on face'
   (q61 'bad', -es 'in the face')
c'épxes 'dirty face' (c'épx 'dirty', -es 'in the face')
skwawecá·les 'sturgeon eyes = blue eyes' (skwawec 'stur-
   geon', -á·les 'in the eyes')
mapelá·les 'marble eyes = blue eyes' (mápel 'marble
   (glass-type)'. -á·les 'in the eyes')
 słelłelp'é lí ys 'sloppy ears' (s-łelp' 'sloppy, flabby',
   C_1 = C_2 'plural', -£·lf·yɛ 'in the ear')
 słelp'á'y0el 'sloppy lips, flabby lips' (s-łelp' as above.
    -á·y0əl 'in the lip')(applies mainly to lower lip)
 c'apxélqsel 'dirty nose' (c'épx 'dirty', -élqsel 'in the
    nose')
 lf. +k, welqs 'hook nose' (lf. k, we'to hook', -C, e- 'contin-
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native'. -elos 'in the nose')
sp'62gsel 'flat nose' (s-p'62 'flat', -qsel 'in the nose')
słałex welgsel 'snot hanging from nose' (lex wat 'to spit'.
   s- + -C10- participial adjective (thus slálox with
  metathesis) could be translated 'spat'). -61csel 'in
   the nose')
smetmétegsel - smetmétegsel 'snotty nose' (s-metá·qsel
   'snot', C, eC2- 'plural')(s-metá·qsel < r.m.u., -qsel
   'in the nose')
Cheh.: kwama.yeel, Tait: kwama.yeel 'round mouth' (kwam
   - kWam must mean 'round', -á.y0el 'in the lips')
xwemseel 'eats too fast' (xwem 'hurry, be fast', -seel
   'in the mouth')
sxeyxe0'á'y0el 'ugly grin, ugly expression in mouth.
   disappointed and angry look in mouth' (sxtyxe0' 'dis-
   appointed and angry looking', -á·y001 'in the libs')
słámagal 'tooth or teeth missing, toothless' (s-łám
   'spray or moisture', -egel 'in the throat')
λ'aqtapsam 'long neck' (λ'& qt 'long', a ablaut, -apsem
   'in the neck')
qWə?fqWəpsəm 'small neck, scrawny neck' (qWə?fqW 'scrawny,
   thin', -epsem 'in the neck')
spiyces 'crooked hand' (s-piy 'bent, crooked' (< pay
   'make a bend or crook'), -ces 'in the hand')
```

'in the hand')

qeléces 'dirty hand' (qel 'bad' dirty', -é m.u., -ces

- se'émlec 'skinny rump' (se'á·m 'bone', derivational ablaut to e, -lec 'in the rump')
- sk' fylec 'lame (esp. hip from birth)' (s- nominalizer, k' fy 'climb', -lec 'in the rump')
- sk'ep'6lec 'tail' (q.v.) and spu? are both used in a slang sense for 'rump'
- c'epf.wel ~ sc'epxf.wel 'dirty asshole' (c'epx 'dirty',
  -f.wel 'in the anus or insides')
- sq'éyxi'wel 'black asshole' (s- nominalizer, q'eyx 'black', -i'wel 'in the anus or insides')
- teq'tiw81 'wide rump' (teq'ft 'be wide', -i.wel 'in the
  anus')
- spiypfyxyel 'crooked leg' (spfy 'bent, crooked', CleC2'plural'?, -xyel 'in the leg'and foot')
- c'éléléc'x<sup>y</sup>el 'short-legged runt' (c'élec-em 'sit down', possibly derivational glottalization of c, -el- 'plural', -x<sup>y</sup>el 'in the leg, on the leg')
- c'épxxyel, c'épxyel 'dirty foot' (c'épx 'dirty', -xyel
  'in the foot')

### 13.1.5. Non-human Anatomy.

In the following lists H stends for "also in human anatomy", A for "also in animal anatomy", B "also in bird anatomy", F "also in fish anatomy", R "also in reptile anatomy", and I "also in insect anatomy".

```
Fish anatomy:
sxéy es, sxáy es 'head' (HABRI)
sxəpəq "gristle and everything else in head of fish'
t: Ewled "skin of fish head without gristle"
ດຣຳຣ໌m 'eye' (HABR)
Oipéle 'fish cheek'
słegwele. sxwoile 'cheek' (HABR)
0a.001 'mouth' (HABR)
scelá·yeel 'upper lip or jaw' (HAR)
sk'epá·y0el 'lower lip or jaw' (HAR)
vál·ás 'teeth' (HAR)
c'emxya.yeel 'jaw' (HAR)
k, Wal. aw 'skin' (HABR)
slig" 'flesh' (HABR)
x^y \epsilon \cdot y 'gills and boot shaped organ attached to gills'
sc'élc' 'scales'
stixyem 'slime'
g'étmel 'fin, neck fin, possibly back fin'
e'étmel 'belly fin'
sxélxel 'tiny fin above tail'
caráom 'bone' (HABR)
se'ae'alá·m 'small bones' (HABR)
xak, Wales 'backbone' (HAB(R?))
sxewe 'dried fish backbone'
 sxépx el 'fish tail'
 sefeivel 'blood' (HABR)
 sc'elx "iwel 'insides' (HABR)
 yfryalewe 'air bladder'
 g, way ay ay stomach, organ with filaments next to air
    bladder!
 mésel 'fish gall bladder'
 méla 'fish heart'
 k, Wai . £ 'belly' (HABR)
```

bly also (but unconfirmed): brain, gums, lungs,

bladder, vein.

Bird anatomy:

t'áp'els 'beak, bill; to peck'
t'át'ep'els 'beak, bill; pecking'
sq'áyes 'real fine feathers, down'
sx'flc' 'small feather'
sk'p'élgel 'long feather (from wing or tail)'
sk'eq'é-1, sk'q'é-1 'wing' (I)
mémelehà·li 'egg'
sk'ep'élec 'tail' (AR)

'claw' not yet confirmed for birds

Also confirmed for birds are the following terms from human anatomy: head, eye, back of head and neck, chest, back, leg, skin, flesh, blood, bone, little bones, heart, stomach, guts; possibly also (but unconfirmed): brain, front of neck, throat, lungs, and backbone.

Reptile anatomy:

sk'ep'élec 'tail' (BA)

Also confirmed for reptiles are the following terms from human anatomy: head, eye, jaw, tongue, back, leg/foot, flesh, skin, bone, blood, insides, stomach; possibly also (but unconfirmed): upper lip/jaw, lower lip/jaw, cheek (esp. for frog), chest, and backbone.

Insect anatomy:

sxéy.es 'head' (HAFBR)
sk'eq'é'l 'wing' (B)
sxél.e 'leg and foot' (HABR)
qél.ém 'eye' (HAFBR)

## 13.1.6. Functions and Dysfunctions of the Body.

This semantic area can be subdivided into: human body functions, human body products, human body dysfunc-

tions (living or healthy/dead or sick, symptom/state/ illness/disability, accident/injury, and possibly medicine/ curing), and non-human body functions and dysfunctions. The following lists and analyses are not exhaustive. For example, emotions are omitted though many harmful ones are treated by Indian doctoring. Smells, sounds, looks, tastes and feelings are omitted because it is unclear that they belong in this domain. A number of grammatical affixes recurr often and can be mentioned here to avoid repetition: -et - -t - -ét - -át 'action on purpose on third person object(s), him. her. it. them'. -1 'happen to, manage to, accidentally', -st 'cause to' (the /t/ in this suffix and the first one listed becomes /0/ when the object is first or second person singular). -exw (after -1 or -st) 'third person object', -la.met 'by oneself', -0st 'oneself', -tel 'each other, reciprocal', -em 'middle-passive voice', reduplication and ablaut of several types (see Chapter 2) 'continuative', 'plural', 'diminutive', s- + -C1 - reduplication (infixed after first vowel of root) 'participial verb', and -els ~ -ε·ls 'intransitive'.

#### 13.1.6.1. Body Functions.

xwf sémels 'bear a child', 00 cméls 'someone having a baby' (méls ~ méle ~ méle 'child')
xwf swivene 'become a man'

x"& swiyeqe 'become a man' x"& sl&·li 'become a woman'

qWfc'et 'belch'

```
g'élmet 'believe s-o, s-th', q'€·l 'believing'
gep'á·sem 'bend or stoop down, bow from waist'
g'Eyk'Wet 'bite into it'
c'émet ~ c'émet 'bite on it, put it in one's mouth or
   hetween the teeth!
0'splex blink', 0'f0'eplex close one's eyes' (-1-ex),
   6'500'eplex" 'blinking' (reduplicative 'plural')
pá•t 'blow'
k<sup>w</sup>əmk<sup>w</sup>imələsəm 'blushing', k<sup>w</sup>i·məl tə.s?á·0əs 'his face
   got red' (kwi.m 'be red', -el 'get, go, come', -es
   (in) the face', C, eC, - 'plural')
kwal 'be born'
spex welf.lem 'breathe' z pex telem 'breathe once' and
   pexWelflem 'breathing'
q well€·lem 'make breathy noise, grumble under the breath'
   (qWal 'talk', -let-1 ~ -lat '(in) front of throat')
?a.t 'call s-o' (s-o = someone. s-th = something)
s?ák estex carry s-o or s-th on the arm purse, person.
   etc.)'
comet 'carry it on one's back, pack it'
?i.lf.mt 'carry it on one's shoulder'
e'sm 'chew, chewing', e'st 'chew it', e'ae'st 'chewing it'
xeyk, Wet 'chew it (s-th hard, apple, candy, pill, etc.)'
xəpk, t 'gnaw it, chew s-th hard', xəpxəpk, t 'chew it up'
    (xeok, we make a crunching or cracking noise, crunch-
    ing, cracking (like chewing apple or ice breaking)'
    is related; * '£mq' els is synonymous with x£pk' em)
 6.16.oplex close one's eyes (compare blink)
 (texyqf.ylt 'comb s-o's hair', texyqfylem 'comb one's
    hair', táxy elqèylt 'comb s-th, card it (of wool)')
 g, wom 'come out (of hair)(as in comb, etc.)
 xy £lx West 'cool off (of a person)'
 t'et'és0et 'creeping along', t'et'ésxyelem 'creeping (of
    more than one)'
 xè·m 'cry, weep'
```

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?4.? 'defecate'
?eliyε 'dream, have a vision, have a trance', s?eliyε
   'dream, vision, spirit dream'
gá·ge 'drink', gá·get 'drink it' (< gá· 'water')
lép'exy 'eat s-th' (-exy 'transitivizer, 3rd person obj;)
?£±tel 'eat a meal' (perhaps -tel 'with each other')
há·y001 'finished eating' (blend word of há·y 'finished'
   and -á·y0el '(in) lips or jaws' or -e0el '(in) mouth')
lás0ət 'get fat' (-0ət may be the verb forming suffix
   here instead of the reflexive)
tốg' 'to fart'
gétxt 'feel s-o or s-th', gétxels 'feeling around'
méla 'forget', mélalex" 'forget s-th or s-o', mélaeles
   'forget, forget s-o or s-th'
x wax wilex get up with quick motion (x ax probably
   'sudden', -i.1 'go, come, get', -axy 'upright')
c'isəm 'grow'
k, wá.yx wem 'growling (of the stomach)'
k, wamlex was 'he's grown up' (-1-ax w, -as 'he (subj;)')
   (see also 'raise s-o or s-th')
st'éwel, Chill:: steréwel 'guess', st'éwélmet 'guess or
   thinking about s-th' (ste? £, st' £ 'like, similar to',
   -ewel '(in) the mind')
c'ic'lf'm (some dialects c'ec'lf'm) 'hear, hearing',
    c'lé met 'hear it'
hék'el 'to hiccough' (imitative)
kwelft 'hold s-th (in the hand)'
xyé?et 'hold a baby in arms'
sx wá·x welstex holding s-th up' (x wá·x we be lightweight.
    -st 'cause to', -exw '3rd person object')
 gelwils 'hug', gelwilst 'hug s-o'
 k, wat 'hungry', k, wak, wiy '(being) hungry'
 x<sup>W</sup>ix<sup>W</sup>θ?ε(t) 'imitating (s-o)' (-θ?ε also in stθ?ε 'similar')
 Ofct 'have intercourse with s-o' (Ofcom 'have intercourse')
 k, W£k, 'have intercourse'
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c'h'ém 'jumo'
lemé·t 'kick (s-o)', lemlemé·t 'kick it around',
   lemé?íwét 'kick in the rump'
m \delta k^{W} \partial \theta(t), x^{W} m \delta k^{W} \partial \theta(t) 'kiss (s-o)', (x^{W}) m \delta k^{W} \partial \theta \partial \theta 'kiss
   on the lips' (mek 'stout, thick', -e0el '(in) the mouth'
   with final -el lost before -t; xW- 'pertaining to head
   or its parts')
θ'q'6±xέm 'kneel down'
tq'61.ex w ~ t6q'el.ex w 'know' (t- meaning unknown. q'61
   'believe', -1 'happen to, manage to', -ex 's-th, s-o')
líyém ~ læyém 'laugh', lé·yem 'laughing', líyliyem 'lots
   of laughing' (root % y 'good')
c'f'met 'lick s-th' (related to c'Emet 'put it in mouth
   or between teeth')
k, wa?iyaqal 'lie on one's back'
?£xe0 'lie down' (?£•xe0 'lying down')
qayqəp'əyá·lə lie on one's stomach' (qép' as in 'bend
   over, bow from waist')
xwlele. 'listen hard', xwlele.m 'listen', xwelele.m
    'listening', xWlelé·met 'listen to s-o'
k, wecat 'look at s-o or s-th' (cp. 'see it' and 'stare')
lápy wemstex w 'make a noise' (lápy wem 'noise')
xwixwə?á·s 'making a face' (cp: 'imitate')
wec'é lamet 'masturbate, bring oneself to a summit (of
    a mountain)' (wec'é 'get to top or summit of a mt.
    < c'é 'top, on top')
 x^{y}ix^{y}q'á·m 'mouth hanging open' (x^{y}eq'á-\thetaet 'hang s-th
    up' (-0et 'verbalizer'), -m or -á·m 'middle-passive'.
    C, i- 'diminutive')
 sexéylem 'move' (cp. síx-et 'move s-th')(-éyl may < -1.1
    'come, go!, -em 'middle-passive')
 liq wesem 'nod one's head, bow once from neck', lileq wesem
     'nodding (in agreement)' (-es 'face', -em)
 xél·eg't 'open one's eyes' (g' ~ g), xélxeleg't te sxwexwé·s
     'lightning, thunder(bird) opening his eyes' (note that
     'tnunder(bird)' is 'sudden' + (in) face')
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(xwmicesem 'pass s-th by hand')
(péleq "'peek over, rise (of sun)' (-eq "'top of head'))
Gilek' 'pinch'
svámvam 'pregnant'
eaeix 'girl at puberty'
k, Wamat 'raise s-o or s-th'
cséces 'reach with hand' (csét 'send it'. -ces 'hand')
tél·ex 'realize it, learn it, understand it' (tél
   'learn', -1 (> · after 1). -exW)
hek, Walas 'remember, remember it'
cé·w 'to rest. relax'
yék'q't 'rub it, rub s-th or s-o'
xwamxyələm 'run' (xwam 'huror, be fast', derivational
   ablaut to /a/. -xyel 'feet'. -em 'middle-passive').
   (xwamxyelam 'running, racing (of people, animals, etc.)'
   shows 'continuative' ablaut even in suffix)
xéyq'et 'scratch s-th (to itch)' (cp. xéyp'et 'scrape
   s-th. scratch s-th (leaving marks);)
kWécem 'scream'. skWécem 'a scream'
k, Weclex w 'see s-th or s-o'
siwelmet 'sense s-th (that will happen)' (-i.wel 'inside'
   or -swel 'mind, thought', -met 's-th (object)')
 (kwelcseels 'shaking hands' (kwel 'hold in the hand'.
    -ces 'hand', -é·ls 'intransitive'). kWelécest 'shake
    s-o's hand')
 (qWeyxolocom 'shake or swivel one's hips: (qWeyx 'shake'.
    -elec 'rump, hips', -em)
 sk, Wec 'sight'
 ?amét 'sit, sit down (if standing), sit up (if lying),
 c'élecem 'sit down, take a seat' (c'é 'on top', -lec
    'rump', -em)
 ?itet 'sleep, go to sleep', ?i tet 'sleeping, asleep',
    'itatam 'sleepy', 'itatlamat 'fall asleep'
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há·qwət 'smell it on purpose', há·qwlexw 'smell it acci-
   dentally, há·qWem 'to give off a smell'
-Wilvamas 'to smile' (xw- 'pertaining to the head',
   liyem 'laugh', -es 'face')
hasem 'to sneeze' (imitative)
wfo, Wem 'to snore' (imitative)
xéyxè·m 'to sob' (//xixè·m//, C,i- 'diminutive', xè·m
   'cry, weep')
±x<sup>w</sup>á·t 'spit it out', ±6x<sup>w</sup>e±cs 'spitting' (-e±cs 'unclear
   liquid')
p'10'et 'squeeze it'
±xéyléxy 'stand up' (1- meaning unknown, xéyl- 'feet',
   -exy 'upright')
k, wak, wecfls 'staring', k, wacest 'stare or look at see's
   face')
'imet 'step on it' (cp. 'imexy 'walk')(cp. 'take a step')
(st'agsel 'stick out, protrude' (st'& 'like, similar to',
   -gsel 'nose')(included as it shows one Stalo concep-
   tion of the function of the nose)
 ?át'a@at 'stretch oneself' (?át' 'stretched')
p'icawt 'stroke it, pet it'
0'40'Wet 'suck it'
 gemá· 'suckle' (< gá· 'water' or its bound allomorph qe-)
meg'et 'swallow it' (meg' 'full with food (in belly)')
 vá•a, wam 'to sweat'
 t'f'c(')em 'swim'. t'ft'ec(')em ~ xyfxyk'a'm 'swimming
    (of human)' (C, i- 'diminutive', xya'k', we'm 'bathe')
 tiox flom 'take a step' (-x fl is stressed version of
 qWe-1 'talk, speak' (qWaqWel 'talking, speaking')
 t'ft 'taste, taste it, try, try it'
 tatilt 'thinking on it, pondering, studying, training'
    (tá·lt 'learn it', -C, -- 'continuative', -f·l 'go,
    come, get', -t '3rd person object purposive')
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sf.t't 'tickle s-o', set'x"t 'tickle s-o's feet' (-x"el
   loses the el before -t 'purposive, 3rd person obj.')
téselex 'touch or bump s-o accidentally', táset 'touch
   s-o on purpose!
t'éc'lex "turn or snap the eyes away (from s-c?) in
   disgust'
təl·á·mət 'understand' (təl- 'learn', -lá·mət 'by oneself')
   (cp. 'thinking', 'realize')
sáx v urinate: urine'
a, wia, walémaal '(a boy's) voice is changing' (q, waq, wel
    'tame', derivational ablaut to /i/, -£m 'middle-passive'
   or possibly 'strength', -eqel 'throat')
xwiv 'wake'. xwiyeet 'wake up'. sxwexwiy 'awake' (the
    root is //xwey//), xwiyla.met 'wake oneself', xwiyxyet
    'wake s-o up'
 ?iməxy 'walk' (?im 'step', -exy 'upright')
 l€aet 'whisper'
 xya pem 'whistle', xyixy pa m 'whistling'
 0'ik' a'st 'wink at s-o'. 0'ik' a'stel 'wink at each
    other', 0'10'ik' wá·sem 'winking', 0'ik' wá·lésem 'to
    wink' (-á·s 'face', -á·les 'eye', -tel 'reciprocal')
 (0.5x wash, takes many somatic suffixes)
 wides 'yawn' (widet 'spread or widen it (of a canoe for
    example)'. -es 'face')
 tf.m(et) 'yell, shout, holler' (-et is apparently not
    the purposive suffix here). sterm 'a shout or yell'
 g'eyxyelem 'to yell' (meaning may be too general)
  13.1.6.2. Body Products.
  leléc' 'bile; gall-bladder' (léc' 'full')
  sefeiyəl 'blood' (s- + reduplication)
  słeowem 'breath' (s-)
  s?4.? 'excrement' (s-)
  stéq' 'a fart'
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sxéyltel 'footprints, tracks' (s-, xéyl 'mark, write',
   -tel 'device, thing for')
slás 'grease, fat, oil, lard' (s-)
scemá· 'milk; breast' (s-. cemá· 'suckle')
má?s 'milk (slang term)'
sgigew 'menstrual blood' (s-. gigew 'menstruating')
má⊖'eł 'pus'
αέγαεγχειά· 'shadow' (α'έγχ 'be black', derivational
   deglottalization, reduplication, -elà unknown unless
   related to -ε·lέ, -élε 'container')
smettegsel 'snot' (s-, r.m.u., -eqsel 'in the nose')
sk'elehé losel 'dried-up snot' (s-, r.m.u., -qsel 'in
 the nose')
słóx wełce(s) 'spit' (-s optional, s-)
syá.q, weat' (s-)
gə?á·ləs 'tear' (qə(?)- ~ gá· 'water', -á·ləs 'in the eye')
sq^{W} \hat{\epsilon} \cdot l = well 'thoughts, feelings' (s-, q^{W} \hat{\epsilon} \cdot l 'talk', sq^{W} \hat{\epsilon} \cdot l
    'words', -ewel 'in the mind')
 séx we 'urine; to urinate' (s- disappears before s)
 své·t 'vomit' (s-)
 (not yet elicited: 'sleep in the eye', 'ear-wax', 'sperm')
 13.1.6.3. Body Dysfunctions.
 13.1.6.3.1. Living or healthy, dead or sick:
 ?£.yələx "alive, in good health' (?£.y 'keep on going')
 me ?&.yelex w 'come alive, come back to life (lit. and
    figuratively), get better, get well' (me 'come')
 me ?£.velex wstex w 'keep s-o alive' (-st, -ex w)
 me ?£.yelex wlex bring s-o back to life, save s-o's life'
    (-1, -ex^W)
 spaleq wf0's 'corpse; ghost' (s-, r.m.u., -f0's 'clothing',
    perhaps spaled represents a word for 'soul' or 'spirit')
 g'á.v 'die, dead'
 xwe·y ~ xwá·y 'died in a group (in epidemic, fire, etc.)'
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x^{W} \mathcal{E} \cdot lq cel 'I almost died' (x^{W} \mathcal{E} \cdot lq 'almost, nearly', -cel
   'I (subject)')
hf gsel 'drop dead' (possibly root related to that in
   hil-em to fall from a height', suffix probably -qsel
   'on the nose')
was was drown!
licx we fey (?)a(1) 'how are you feeling?, are you doing
   good?'. licx wetu? Eya 'are you feeling a little bet-
   ter?', cel tu 'éya 'I'm fine'
g'ένλ'θet 'it healed up' (g'ένλ' 'heal'. -Θet 'itself')
o'á yt 'kill s-th or s-o'
s?f.k, 'W 'lost (and presumed dead)' (s-. ?f.k, 'W 'get lost')
la q'ép' 'he passed on a disease, he got addicted (to
   anything)' (1e '3rd person subject, past tense')
q'ép'lex pass on a disease to s-o, get s-o addicted'
k, wemla met 'pull through (an illness), pull through or
   raise oneself (from childhood through puberty to mat-
   urity)' (k' omet 'raise s-o'. -lá·met 'oneself')
(me) ?i?&yel 'recover, get better' (me 'come' optional,
   reduplication prefix function unclear. 'Ey 'good')
q'áq'ey 'sick; dying' (q'á·y 'die', -C<sub>1</sub>e- 'continuative')
sq'aq'ey 'sickness: dead for awhile' (s- nominalizer or
   participializer)
mə q'áq'əystəx make s-o sick (-st. -ex)
q'aq'ayx el 'sick foot or leg' (-x el 'in foot or leg'.
    just one example of many)
xW& 'starve (and die)'
 13.1.6.3.2. Symptom/state/illness/disability:
    (A common suffix is -(a)tem which seems to mean
 'state of (verb)' though it derives ultimately from the
 -et transitivizer plus -em 'middle-passive'.)
 sé yem 'to ache, be sore, to pain'
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xé·p'qWtem tel se'á·m 'my bones are aching'

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rat tal 0'2.10 'my heart is aching'
si si 'afraid. nervous'
s⊖'á·q<sup>W</sup>ələq<sup>W</sup> 'bald' (s-, r.m.u., -ələq<sup>W</sup> 'on top of head')
sciyelexel 'strawberry birthmark on arm' (sciye 'straw-
   berry', -eléxel 'on arm')
calex wam 'bleed'. ca lx wam 'bleeding'
ceyxes 'blind' (q'eyx 'be black', derivational deglottal-
   ization. -es 'in the face')
gá·cá·m 'a blister'. gécem 'be blistered'
sa, Wacam 'a boil'
?ewéts słék, wam (k, w ~ q, w) 'breathless. no breath'
st'áyx brooding' (symptom of spirit sickness)
t'fgel 'be bruised', t'fgel to gel oms 'his eye is bruised',
   st'ft'eqel 'a bruise', st'it'eqa'les 'black eye, brui-
   sed eve1
q awem 'walk with a cane', sq awe 'person with a cane'
   (q'éwe 'cane', s-, -& unclear, -(e)m or -&m 'middle-
    nassive!)
sk, way 'can't, unable, impossible'
k^Wələx^Wəs tə sə'áləm 'he caught a cold', k^Wələx^Wəs tə
    stá · q · W am 'he caught a cough' (k W al 'get', -1 'happen
    to, accidentally', -ex 'it', to 'a, the', see below
    for 'cold' and 'cough')
 spél·ex chickenpox'
 0'álem 'chilled'. 0'á0'elem 'being chilled'
 (s)0'flom sq'fq'oy 'a cold' (lit: "chill sickness")
 a, wom 'come out (of hair)'
 xexek, "fwel 'constipated' (xexek, " 'wedged in tight'.
    -f · wel 'in the anus or insides')
 c'iyx wiwel 'constipated' (c'iyx w'dry', -f'wel)
 t'ek wiwel 'constipated' (t'ek 'mired'. -f'wel)
 a'éa'ek' 'convulsions, fits'
 tá·q, wem 'to cough', stá·q, wem 'a cough' (s-)
 q'élptem 'to cramp, have cramps', q'élptem 'cramped',
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a'&g'elptem 'cramping' (p - p' in each case)(compare
  q'élp't 'shrink it', q'élp'0et 'shrink', and q'elq'elp'
   'tangled on its own (of net, hair, etc.)')
sxá·lc'iye0el 'to have a crooked jaw (from birth, injury,
   or from getting bumped by a ghost)' (s-, xé·lc' 'tur-
  ned the wrong way, twisted', -iyə0əl < -á·y0əl 'in
   the jaw')
k'6kWal·ε (kW ~ qW ~ k') 'deaf' (r.m.u.)
*'&xytem 'diarrhea' (possibly < %'6xy 'ripped apart'),
   k'xyetem 'continuing diarrhea'
sé·10'tem or sé·1c'tem 'dizzy'
séles 'dizzy; drunk' (sel 'spin around', -es 'in face')
c'fyx wegel 'dry in the throat', c'fyx eqellem 'my throat
   is dry'
statek, wf. wel 'dumbfounded, speechless, stupified, sur-
   prized' (s- + -C, e- participial verb, łá·k, " 'to fly',
   -f wel 'in the insides, in the anus, in the rump')
sé yem tel q'Wó·l 'I have an earache, my ear aches'
scelé.l to sk, wec 'eyesight is fading'
melof wsem 'to faint' (melq 'forget', -f ws 'in the body',
   -əm 'middle-passive')
o'0ۥmtəm 'forgetful, absent-minded' (q'0€•m 'short (of
   memory, of reach, of food, etc;)')
lax melqawat 'forgetful; passed out if drunk' (lax -
    'always', mélq (~ mélq) 'forget', -ewel 'in the mind')
paleq wife etem 'he got ghosted' ('ghost' minus s- > paleq w-
    fe'ε 'to ghost', -et 'someone, he, etc.', -em 'passive')
sméce 'goiter, lump on person or tree (burl)'
xexelc'elisem 'grinding one's teeth' (xélc' 'twist, turn
    around', -elis 'teeth' or 'in the teeth', -em)
 ?á·l0ət 'to groan', ?i?á·l0ət 'groaning' (compare ?á·-t
    'call s-o'. -0et 'oneself')
 +ség' g'á·y 'half dead, half paralyzed'
 xt2.16qel 'headache' (' ~ ')(xet 'ache, hurt', -2.16qel
    in the head')
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tsá·s 'heartbroken, poor, destitute'
ved iles 'heartburn' (yed 'burn', -i.les 'in the chest')
0'k' fwel 'hemmorhoids, open sores in rump or genitals'
   (compare s-0'00'fk' 'open sore', -f'wel 'in the rump,
   anus, insides, genitals')(loss of vowel length seems
   to be due to speed of pronunciation and dialect: Tait
   dialect speakers seldom omit length even in rapid
   speech while Chehalis dialect speakers do much more
   readily, sometimes even in slow speech)
t'émiye, t'émiye 'hermaphrodite baby'
k, wak, was 'hot' (k, was 'get burned (of a person)')
sq wamecel 'hunchback, lump on the back' (s-q wa'm 'lump'.
   -Ecol < -f.col 'on the back')
x61 'to hurt, ache (of head, ear, stomach, etc.)'
sx<sup>w</sup>á·x<sup>w</sup>θ, 'to be insane, crazy', sx<sup>w</sup>ix<sup>w</sup>á·x<sup>w</sup>θ, 'a little
   crazy, stupid'
sk, wey kws of tet 'have insomnia, can't sleep'
x£yxəc'əm 'to itch', xɛyxəc'əm0ət '"real itching"!
lelec' 'jaundice, bile trouble; bile; gall-bladder' (lec'
    10,111)
sk, wiylec 'lame (of hip, esp. from birth)' (s-, k, wiy
    'climbs', -lec 'on the rump (or hip)')
 slék elec 'lame hip or leg; to limp; cripple(d)' (s-,
    lék broken (bone), -elec in the rump (or hip))
 owa-me: 'lump', sqwemqwa-mzw 'lots of lumps (any size);
    anthills!)
 q1.w 'menstruate', qiqew 'menstruating', sk, wx de's sq'aq'ey
    'menstruation' (sk, "xy a's 'moon', sq'aq'ey 'sickness')
 sk, way kws qwe.ls 'mute. he can't talk'
 héyetélmél 'nauseated' (héyet or héyet 'vomiting', -élmél
    'in the mind')
 si 'nervous, afraid'
 x wak weltem 'numb' (x wak wel 'get numb' (-el < -f.1 'get,
    go, come')), x wak welx el 'numb in the foot, one's
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foot is asleep'
powifoles 'out of breath, overtired and overhungry (sim-
  ultaneously)' (pegW 'split in half by hand'(like of
  an apple)'. -1.les 'in the chest')
t'éq' to słék' om (k' ~ q') 'run out of breath, break
  one's breath' (t'éq' break (of a rope)')
k; wask 'overheated' (k; was 'burned (of a person)')
t'eq, Wetet 'pass out, faint' (t'eq, W 'break or split
   (of a rope)', -101 'in the throat')(see also 'faint'
   and 'forgetful')
q'á·y 'paralyzed; dead, die'
svél@tem 'poisoned' (s-, yél@ 'to poison', -t-em)
xf.p'gWtem 'rheumatism, aching (of bones)'
e'áa' em 'to rot'
tx desel 'runny nose! (lex to spit', -slqsel 'nose')
   or 'in the nose')
sc'évh' 'a scar' (s- nominalizer, q'évh' 'heal')
létytem 'to shiver, shivering, trembling' (see 'tremble'),
   ±έtxθέ•ləm 'I'm shivering'
xya.lf.s 'fatal shock (with vomiting)' (upon seeing a
   supernatural sk'&legem creature)
sxyiyf.ws 'smallpox' (s-, root possibly xyt.y 'fish scales'.
   -fews 'on the body')
p'61. me p'61 'to sober up', sp'ep'fi 'sober, sobered up'
   (s- + -C, e- participial verb)
se'ae'ik' 'open sore', se'ak' e'ik' 'open sores'
xt'éls 'put/cast/throw a spell', xt'ét 'put or cast a
   spell on s-o'
yewi'lt 'cast an evil spell on s-o', syewi'l 'an evil
   spell: power to do witchcraft and predict future',
   syó·we 'witch. seer' (s-. yew ~ yó·w 'supernatural
   power', -i'l 'get, go, come')
syéwel sq'áq'ey 'spirit sickness' (s-yéwel 'guardian
   spirit, spirit power, possession by spirit')(symptoms
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of spirit sickness are: depression, insomnia, hearing songs and drumming not physically present, pain in the chest. and some others) xeysel 'get spooked, fear something behind one' sp'ig' 'white spotted skin' (s-. p'ég' 'white', + ablaut for derivation). sp'ed'p'fa' 'many white spots on skin' t'á 'to sprain'. t'at'é tel s'f'lwel 'sprain my side' c'isq' xy el 'sprain one's ankle' (r.m.u.) x wae 'éq 'wxyal 'ankle joint; sprained ankle', x wae 'éq 'wcas 'wrist, hand joint; sprained wrist' (r.m.u.) télstem 'get staggered'. (yi)té·lstem and x wex elá·ystem 'staggering' (r.m.u. -t-əm) xwe 'to starve, starving' xelé·lwes 'have a stomach-ache' (xel 'hurt', -é·lwes in the stomach;) q'á·y to ±q'f·ws 'a stroke, half the body paralyzed' s?éc?ec 'stuttering'. ?éc?ec 'to stutter' (compare ?cc-l-ex hear about it')(imitative reduplication) cx wetem 'swelling (of infected sore, of balloon, etc.)', cacix 'swollen' Cheh.: ±qá·le, Chill.: cqá·le 'thirsty' (±- ~ c- verbforming, qá· 'water', -le unknown) k, we ended throw a tantrum, throw oneself on ground in a tantrum, drop oneself into a seat angrily' (k, des 'to club', -0ət 'oneself') tex wem tel 0 % le 'my heart is thumping' kcf.ws, xlom 'tired' (-f.ws '(in) the body', xet 'hurt', -6m 'strength'). q'ayí ws 'tired' (q'á y 'dead or paralyzed', -f.ws 'in the body') memé (or me mé) te yél·és 'the tooth came out' (mé 'come out. come off', me- reduclication or me 'come') yélyelesem 'a steady toothache' (reduplication is 'plural' or 'continuative', y61.6s 'tooth', -em verb-forming) słómegel 'tooth/teeth missing, toothless' (s-, lem 'rain

or spray' as in lemex 'to rain'. lemlemex' 'rainshowering off and cn', and stemxy al 'dew'. ("rain on the feet"). -agal 'in the throat'; "rain in the throat" would refer to the juicier sound of speech by people with missing teeth) létytem 'to tremble'. létytem 'trembling. shivering' ('shiver(ing)' is to tremble more than once) g, Walagal 'trenchmouth' (g, Wel 'cooked: ripe'. -eqel 'in the throat') tatec, Wá·mestem 'tuberculosis' (tátec, Wem 'coughing'. ablaut or -á·mes (meaning unknown) or -es '(in) the face'. -t-em) yé·t 'to vomit', héyet or héyet 'vomiting' sc'épx wel 'wart' (s-, c'épx 'dirty', x > x derivational?. -al unknown) gelۥm 'weak' (gel 'bad'. -€•m 'strength'. ?εyém 'strong' < "good strength") p'ag' Eyl to s'á · Oos 'the face got white' (p'ag' 'white',

## 13.1.6.3.3. Accident/injury:

-&y1 < -f·1 'go, come, get')
sp'fg' 'white spotted skin' as above

Most of the verb roots below can be used with most of the somatic suffixes. What follows is merely a crosssection. Analysis is evident from suffixes already listed previously.

sq'&yk'' 'a bite' (s-)
lek''at 'break a bone', sli·k' 'broken (of a bone)',
lek''lek' 'all broken up (of all or many bones, also
of sticks)', lek''el&yel 'break an arm', lek''x''/
'broke a leg', lek''spsem 'break one's neck', lek''esv'c
'break one's spine or back; have a hunchback'
k''' &s 'get burned, got burned', k'''si'ws 'singe hairs off

skin', k' esá yeel 'burned on lips', k' és(e) del 'burned in the mouth' (it appears from this that -eqel in the throat' includes the inside of the mouth too). k, wesces 'burned on the hand', etc. ?fq'el 'choke on bone or s-th solid' t'kwf.les - t'ekwfles 'choke on food'. t'ekweles 'choking on food' (t'ek" 'mired', -f'les 'in the chest') lex siem 'choke on water or liquid' (lex s- 'always'. 16m < 10m 'to rain or spray') n'i0'lélt 'choke s-o' (p'i9' 'squeeze'. -lél - -lel 'in the front of the neck'. -t 's-o') t'émxyel 'chop one's foot' (as with an ax), similarly t'émces, t'émasel, etc. k, Wed Welfxel 'club on the arm', many others (see exx. of sometic suffixes) lfc'et 'cut s-th or s-o', lec'lex" 'cut s-o accidentally'. léc'ces 'cut a hand or finger'. sx # léc'ces 'a cut on the hand or finger', tec'elexel 'cut one's arm' c'6q' 'hit (with bullet, arrow, s-th shot), wounded, poked'. c'eq' lex 'hit (with arrow, etc.) accidentallvi. xwm6lk,wes 'get hit in the face by s-th falling' télces 'hit on the hand with a hammer, hammered on hand' lá·met 'hit s-th with s-th thrown'. lá·m li te tépsem 'hit in the neck with s-th thrown' mf.k to get hurt, be hurt' eq'ét 'poke, prick, or stab s-o, spear s-th (for ex. fish), pierce s-th' 0'fa' est 'punch s-o in the face' \*fq' 'run over (by car. train, etc.), get wedged (by falling tree), stuck in a trap' xeyp'et 'scrape s-o or s-th, scratch it (and leave mark)' 'fx to magsal 'scratched on the nose, the nose is scratched' kWelexyt 'shoot s-o or s-th, sting s-o'

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c'é.] tal célexy 'skin my hand, peel the skin on my hand'
 sxyec'xyel 'splinter or sliver in the foot', sxyec'ces
    'splinter or sliver in the hand or finger'
 t'A 'to sprain'
 sx61 'a wound' (s-)
 13.1.6.3.4. Medicine/curing:
 o'Ep'et 'bandage it up, tie it up' (the latter meaning
    is the basic one--there is no specific word just mean-
    ing 'to bandage')
 g:éwe 'a cane'
 ±€·w 'cured, healed', ±€·wet 'cure s-o by Indian doctor-
    ing; chase s-th away from s-o'. le'wetem 'cured by
    Indian doctoring', létewels 'curing by Indian doctor-
    ing, a medicine man "working"
 sxwlf.m 'Indian doctor, medicine man, shaman'
 k, Wak, WiyaGat 'training oneself to be an Indian doctor
    or spirit dancer' (k, wek, wfy 'climbing'. - eet 'one-
     cel f!)
  takte 'non-Indian doctor'
  q'éyk'0et 'it healed up' (q'éyk' 'heal', -0et 'itself')
  c'élxyetel 'looking for lice in s-o's head' (perhaps
     'looking for lice in each other's head')(mexyc'el
     'louse' + metathesis (derivational) > c'élxy. -tel
     'reciprocal')
  cel xé.yles 'I made it (if laxative finally works)'(r.m.u.)
  st'élmex "medicine' (r.m.u., unless st'i·lem 'song')
  st olmex wa·les 'eye medicine'
  st'elmex of 'love medicine' (-f. wel 'in genitals or
     insides')
  xwaq,wala?Eltal 'hangover medicine' (possibly xwaq,wala
     'scouring rush, horsetail', -? Eltel 'medicine' (incl:
     -tel 'device, thing for'))
  θ'el?€·ltel 'heart medicine, juniper' (θ'€le 'heart'.
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sqfqemel 'puberty hut' (sqemél 'pit house', C,f- 'diminu-
   tive!)
me?61.6sem 'pulled out (of a tooth or teeth)' (me 'take
   out, come out', -?61.6s 'tooth', -em 'passive')
mexyes to yelles 'he took out or pulled the tooth' (me
   'take out', -exy '3rd person object', -es '3rd person
   subject')
Tait: mí ck, wéc, Chill.: mí sk, wéc 'recover sight, sight
   came' (mi 'come')
sak, wem 'outer cedar bark splint' (the word may also mean
   'outer bark')
geti wsem 'take a sweatbath' (qe 'water', -t unknown here,
   -1.ws '(on) the body', -am 'middle-passive')
xyexyt'a'les 'trillium' (cataract medicine, possibly <
   x^y5t'-əm 'swim (of a fish)', -C<sub>1</sub>ə- 'continuative',
   -á·les 'in the eyes'; this may also be the word for
   'cataracts')
 13.1.6.4. Non-human Body Functions and Dysfunctions.
Fish:
c'h'ém 'jump' (HABRI)
t'ilégel 'a spawning salmon with eggs loose and dangling'
kWamexW 'salmon after spawning (no eggs left)'
xeygeye 'old salmon ready to die'
cawatem 'spawning'
xyét'em 'swimming (of fish)'
 probably plus some verbs also used for humans like
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sy& ttel 'throw-up medicine' (s-y& t 'vomit', -tel 'device

xyaxyohmot 00 cm61s 'looking after s-o having a baby, midwifing' (also without the reduplication)

-?£.ltel 'medicine')

nérs 'nurse' (< English)

or thing to')

k, weclex w 'see it', lep'ex y 'eat it', etc.

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Animals:
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-61ec 'enimal or bird droppings' (< -61ec 'in the rump')
www.eat 'to gallop'
xéylém 'to growl (of an animal)' (cp. xéytem 'to growl
   (of humans, under the breath)')
a'f.w 'howl'
owe-1 'talk' (HB and perhaps of frog also)
o'Wáo'Wal 'tame'
λ'ερ'élecem (ε may ~ a) 'wagging its tail' (sh'ap'élec
   'tail', possible ablaut may be 'continuative'. -- m
   is verb forming suffix or 'middle voice')
ckWfkWexy 'wild'
plus many verbs also used for humans such as q'éyk' et
    'bite into it'. c'émet 'bite on it. put in mouth'.
   lén'exy 'eat s-th', k' weclex 'see it', tel é met
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'understand', q'á·y 'die', etc.
Birds:
-élec 'animal or bird droppings'
łá·k, to fly
k'x wf. ylem 'hatch eggs, brood, incubate or sit on eggs'
   (k'ex" cover over'. -έ·ył unknown unless related to
   -?a:ll 'young'. -em 'middle-passive')
q^{W}əlay\Thetaf·ləm 'make music' (q^{W}əl 'talk', -á·y\Thetaəl 'in lips',
   -1.1 'go, come, get', -em 'middle-passive')
smimelehá·llé·lé 'little bird's nest' (s-, C,i- 'diminu-
   tive', memelehá·lł 'egg' (< mémele 'children', -há·lł
   'young'), -£.1£ 'container (of)')
t'áp'els 'to peck'
t'f'lem 'sing'
q^{W} \epsilon \cdot 1 'talk', q^{W} \delta \cdot 1 q^{W} e 1 'warning (a different cry)'
plus many verbs also used for humans such as lep exy,
   k, WaclaxW. etc.
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Insects:

q'fyk' wet 'bite s-o' (HAFER)

lf'k' 'to fly' (B)

c'r'fm 'to jump' (HAFER)

t'f'lem 'to sing (used in place of a word 'to buzz')

k'welfx' 'sting s-o, shoot s-o or s-th' (k'welfx' 'shoot
 (with arrow, gun, etc.)' < k'welfx' 'shoot
 (with arrow, gun, etc.)' < k'welfx' 'shoot
 (probably plus other verbs also used for humans like
 k''sclex', lfp'ex', etc.

#### Reptiles:

sq'elf·w 'coiled (of snake)' (s-, q'el as in q'elq'61-p'
 'tangled (on itself)' or q'elq'61-q' 'tangled on s-th,
 snagged', -f·w unknown), sq'elq'elf·w 'coiling (of a
 snake), ready to strike' (reduplication 'plural/continuative')

c'%'e' 'jump' (HAFEI) léqem 'hiss, whisper' (H)
probably plus other verbs also used for humans like
k'\*6clex\*, lép'ex\*, etc.

## 13.1.7. Morphosememic Patterns of Anatomy.

In 5.2.1 the somatic suffixes were presented, showing that about a third of them have a suppletive relationship to their equivalent independent words; the remainder are etymologically related to the independent word equivalents. The somatic suffix system is extensive in that about a quarter of all the independent words for body parts have somatic suffix equivalents. The systematic morphosememic feature shared by these somatic suffixes is that they are morphosememically locative ('on

or in the (body part)') except when used in independent body part words; in the latter case the meaning shifts to become partitive ('of the (body part)').

In section 3 the independent words for body parts were presented and morphosememically analyzed. There are several systematic features that can be seen in the analysis. 1. As with somatic suffixes (for ex. -ces 'on the hand or finger', -x<sup>y</sup>el 'on the foot or leg'), the division of the body by the Halkomelem words is sometimes different from English divisions (tépsem 'back of the head and back of the neck', sxél·e 'leg and foot', etc.).

- 2. The independent words are extremely analyzable compared to the English equivalents.
- 3. There is marked morphosememic parallelism in the treatment of the parts of the hands and feet, of the knuckles, ankles and wrists, of the elbow and shin, of the hair (other than on top of the head), and of the genitals. Thus in both hands and feet: the fingers and toes 'widen' the limb, the thumb and big toe are the 'stout member' or 'stout part' of the limb, the palm and the sole are the 'face' of the limb, the hollow of the hand and arch of the foot are 'going downriver on the face' of the limb, and the nails of both hands and feet are the 'grayish' parts. The knuckles, ankles and wrists are 'lumps' and the joints of the ankle and wrist can both

be named by a root that also means they are sprained. The elbow and shin are both called the 'bone' of their limbs (arm and leg), while the penis, head of the penis, and vagina/vulva all begin with the same root,  $x^y$ , and prefix s-. The hair other than on the top of the head is differentiated by the somatic suffixes and pluralized by reduplication.

4. All the independent body part words can be fit within ten derivational types: a. unanalyzable at present (no suffixes detectable, about 22 cases), b. root meaning unknown (suffixes segmentable, about 22 cases). c. root semantically empty (with somatic suffixes whose locative meaning is cancelled out; examples include the nose, mouth, tooth, tongue, back of head and neck, chest, belly, rib, rump, and possibly heart and heel--with roots m-,  $\theta$ -, y-, t-, t-, ?-,  $k^{,W}$ -, 1-,  $\frac{1}{2}$ -, and possibly  $\theta$  ?and 0'-, respectively). d. verb roots describing an action or function of the body part (about 21 examples including: 'chop, mark, braid, come out (of hair), bite on, talk, greedy/eat too much, carry on shoulders, club, widen (2 cases), point/aim, marry, suckle, come out above (2 cases), go into quieter backwater, wedged in, fly strength, have an erection, and cover over), e. adjectival verb roots of descriptive nature (about 15 examples including including: 'soft, red, tangled, black, blue (2 cases), spotted, wet, stout (3 cases), wide (3 cases), good, full), f. adverbial verb roots (nine examples:
'above (2 examples), below, right, left, middle, downriver (2 cases), across'), g. body part roots (16 examples including only multiple examples of 'bone', 'hair',
'flesh', and 'face'), h. descriptive noun roots (about
nine examples including five of 'lump', and one each of
'hole', 'half', 'stone' and 'fat'), i. noun kinterm root
(one or two examples include 'youngest child' in 'little
finger' and 'child' in 'womb'; if s-méle is 'have a child'
then this latter example ('womb') belongs in group d.),
and j. noun root to describe function (one example
'bladder' < 'urine container' < 'urine' root).

5. The suffixes used in the independent body part words are mostly somatic; the few that are not include: -á·ls 'round thing; fruit', -éls - -é·lé 'container', -é·lc' 'twisting around', -tel 'device, thing to' or 'reciprocal', -émél 'part, member', -owet - -éwet 'cance', -é·mec' 'standing upright', -ém 'strength', possibly -0et 'itself'.

In section 4 we examined the pésq<sup>W</sup>tel, the anatomical insult, and discovered 50 examples. These consist of an adjectival verb, a verb of another type or a noun, followed by a somatic suffix, with three exceptions ('big nose' and 'big belly' have prefixes on the independent body part word instead, and 'ugly' uses the suffix -á·mexy'-looking, in looks, in appearance' which is not somatic but is close). The verb and noun roots have a morpho-

sememic pattern: they describe size and shape (32 examples including: 'big, sloppy, pointed, high, flat, long, hooking, round, scrawny, crocked, boney, wide, and short!). looks (nine examples including 'bad', 'cross' (< 'bad'). 'ugly' (< 'disappointed and angry looking'). 'dirty'. and 'black'), anatomy (two examples, 'hairy' and 'snotty'): four examples use analogies (sturgeon eyes, marble eyes, climbing rump. and tail (> 'rump')), and three examples describe miscellaneous actions (fast mouth, spray or moisture in the mouth (> 'toothless, teeth missing'). and something spit out of the nose). The largest number of examples found with one root have the bound root 01. 'big', modified in several ways.  $\theta \sim \theta \circ h$  'big' sometimes appears (reduced ablaut grades), sometimes prefixed with xW- 'pertaining to the head or part of the head', sometimes reduplicated for 'plural'. 0100 ~ 0100h. 010 only appears once (in 'loud voice') and is prefixed by xW-'pertaining to the head or part of the head' and then by s- 'nominalizer'. Still another variant exists for 'big' within the pésq tel, shifting the meaning of s- nominalizer to 'big' and prefixing it to two independent body part words (méqsel and k; wél·ε); this could be like calling someone 'The Nose' or 'The Belly' with the implication of huge dimensions. A final variant uses the normal word for 'big', hik', and applies it in a sentence to someone's uvula; the implication is that the person's

mouth is open so much that his uvula appears huge.

Section 5 listed terms of non-human anatomy, along with some words that apply to human as well as non-human. For the fish there are 21 terms that apply only to fish plus 17 which can also refer to other living creatures: The 17 words have already been analyzed under human anatomy: the 21 words of exclusively fish anatomy contain two parallels: s-xép-eq 'soft gristle and insides of fish head' and s-xép-xyel 'fish tail (including soft gristle)' both have the root s-xép- which apparently means 'soft edible gristle of fish': q'5tmal 'fin, neck fin, possibly back fin' and 0'stmel 'belly fin' both have a rare lexical suffix which may mean 'fin'. The other thing to note about the set of 38 words is that they include the following somatic suffixes, all semantically extended to apply to the fish: -eqw of the top of the head', -á·y0əl 'of the jaw or lip',  $-x^y$ əl 'of the foot or leg', and possibly -es 'of the face' (in 'head').

Of animal body terms 32 apply to humans as well, while only eight or so do not: 'tuft of hair on horse's leg', 'fur, animal hair', 'horn, antler', 'animal tripe', 'tail', 'paw', 'hind leg', 'foreleg'. The total 40 words include the following somatic suffixes: -x<sup>V</sup>el 'of the foot or leg', -ces 'of the hand or fingers', -fwel 'of the insides', -elec 'of the rump', -ewfc 'of the back', -£fyeel 'of the jaw or lip', -61.6s 'of the tooth or teeth', -6x<sup>W</sup>eel 'of

the tongue', -101 'of the front of the neck', and -6wey, 'of the ribs'--all extended semantically to apply to animals.

There are about 24 words found so far for bird anatomy, eight of which do not also apply to human anatomy: 'egg', 'down, real fine feathers', 'small feather', 'long feather (of wing or tail)', 'wing', 'tail', and two words for 'beak, bill'. The sizing of feathers is a morphosememic feature of interest, as is the analysis of 'egg' as 'children' + 'young'. The somatic suffixes used in the set of 24 words are: -elec 'of the rump', -fwel 'of the insides', -epsem 'of the back of head and neck', -f.les 'of the chest', and possibly -£lqel which could mean 'of the wing' or just 'feather'.

Terms for reptiles found so far include 12 terms also applicable to humans and just one that is not, sh'ep'élec 'tail' (applicable to humans however as a slang term). Somatic suffixes used are: -alec 'of the rump', -á·yeel 'of the jaw', -óx "eel 'of the tongue', and -íwel 'of the insides'. Confirmed parts of insects include only three words, of which only sh'eq'é'l 'wing' cannot also apply to humans. Neither the reptile nor the insect sets show anything systematic in semantic design.

In non-human anatomy there are a few interesting omissions: no word for brain of fish (just sympo) "gristle and insides of head" is used), no word for rump

of an animal (just the word for 'hind leg' is used), and there is probably no word for chest of an animal (just the word for 'ribs' is used):

Section 6 covers functions and dysfunctions of the body. Most of these words are verbs; the main exceptions are body products, some illnesses and some medicines-these and a few other body dysfunctions are nominals. Body products include those resulting from both functions and dysfunctions. Body dysfunctions include the following subdivisions: living or healthy/dead or sick, symptom/state/illness/disability, accident/injury, and medicine/curing. One interesting semantic feature of these subdivisions is that words relating to living and healthy are semantically linked (?&.yelex "alive. in good health', me 'f' yelex 'get better, get well, come alive, come back to life'), as are words relating to dying and sick (q'aq'ey 'dying, sick', sq'aq'ey 'sickness; dead for awhile'). Another interesting feature is that what non-Indian doctors might regard as symptoms, dysfunctional body states and even psychological states are usually regarded as illnesses by the Upper Stalo and are treated by Indian doctors and by Indian medicines: Some of the psychological states are also treated by initiation into spirit dancing. The subdivisions of accident/injury and medicine/curing have been only sketched in outline here by very incomplete lists of words;

With the extensive use of somatic suffixes elsewhere one would expect much heavier use of them in the body function words than one finds. It seems there are a goodly number of body function roots which do not need (and do not allow) somatic suffixation. Those body function words which do use somatic suffixes show a clear morphosememic shift in the meanings of the somatic suffixes. The suffixes lose their locative meaning and become very nearly subjects of the verb root (for example. c'élecem 'sit down, take a seat' < c'é- 'be on top' + -lec 'rump' + -em 'middle-passive'). In some cases it is difficult to tell whether the somatic suffix has a subject or an object function (for example. makwae 'kiss' --is it < 'the mouth gets thick' or 'get the mouth thick'?). With body dysfunctions this same shifting occurs except when the somatic suffixes are attached to roots that can also be used without somatic suffixes; this latter set needs the locativeness to specify the location of the dysfunction (for ex., q'aq'eyx el 'sick in the foot'. g'ág'ey 'sick': lek epsem 'break one's neck', s-lík 'broken (of a bone)'). Somatic suffixes are used with almost all the accident/injury words and are there distinctly locative.

Morphosememic analysis of analyzable body function words shows several types of morphosememic derivation:

1. imitative, as in 'hiccough', 'sneeze', 'snore' and

possibly in 'blow', 'call s-o', 'cry, weep', 'defecate',
'growl (of stomach)', 'spit', 'whisper' and 'yawn'.

2. descriptive of appearance, as in 'stand up' < 'legs
upright', 'walk' < 'step upright', 'yawn' < 'widen or
spread face', 'kiss' < 'mouth thickens' or 'thicken the
mouth', 'shake hands' < 'hold a hand (in one's hand)',
'smile' < 'laugh on face', 'stick out, protrude' < 'like
a nose', 'make breathy noise' < 'talk in breath or throat',
'finished eating' < 'finish in lips or jaws', 'get up
with quick motion' < 'suddenly go or come upright', and
'blushing' < 'getting red in face'.

- 5. description of function, as in 'swallow' < 'fill it with food', 'run' < 'feet hurry' or 'hurry the feet', 'thinking or pondering s-th' < 'go learning it on purpose', 'understand' < 'learn (by) oneself', 'realize it' < 'happen to learn it', 'know it' < 'happen or manage to believe it', 'sit down, take a seat' < '(put) rump on top, rump is on top', 'masturbate' < 'bring oneself to a summit', 'guess' < 'similar in the mind', 'one's voice is changing' < 'the throat is tamed' or 'tame the throat'.</p>
- 4. diminutive, as in 'swimming' < 'little bathing', 'sob'
  < 'little cry(ing) or weep(ing)'.</pre>
- 5. pluralizing, as in 'expect' < 'look a number of times'.

  Body products are mostly body function words nominalized with s- (at least eight and possibly 14 of the 19 words fit this description). The rest are mostly description

tive of the product's function: 'thoughts, feelings' <
'talk in the mind' (incidentally a nice confirmation of
the Whorf hypothesis), 'footprint' < 'thing that marks',
'milk; breast' < 'suckled thing'; three are descriptive:
'tear' < 'water of the eye', 'bile; gall-bladder' < 'full
(+ unknown affix)', 'shadow' < 'black (+ unknown affix)'.

In the area of body dysfunctions, little other than anecdotal can be said about words relating to life/death/sickness/health: 'corpse, ghost' < 'clothing of (the soul?)', 'almost died' < 'almost' (verbal taboo?), 'drop dead' < '(fall?) on one's nose'.

Words relating to symptom/state/illness/disability, however, do contain some systematic morphosememic organization:

1. Fifteen of these words are formed with -tem 'state of (verb)', which derives morphosememically from the -t 'third person object, on purpose' + -em 'middle-passive voice'; all are descriptive of physical appearance or feeling and can be inflected for first or second person subject by changing the passive ending (1 sg. -021mm, 2 sg. -021mm, 1 pl. -tálx wes, 2 pl. -tálòm, 5 -tem). Thus létytem is '(third person) is/ere trembling or shivering' and léty2021m is 'I'm shivering or trembling'.

2. Related to this is the large number of words ending in -em 'middle-passive' without the -t; there are 14 or 15 of these words (which seem to be conjugated with active

subjects).

- Words descriptive of feelings: 'weak' < 'bad strength',</li> 'rheumatism' < 'aching', 'dizzy, drunk' < 'face spins around', 'dumbfounded, speechless' < 'rump or insides flying up', 'tired' < 'hurt strength' and also < 'dead in the body', 'nauseated' < 'vomiting in the mind', 'blind' < 'black in the face', 'headache' < 'hurt in the head', 'stomach ache' < 'hurt in the stomach', 'to cramp' < either 'tangled on its own accord' or 'shrunk', 'constipated' (three words) < 'wedged or tight in the anus', < 'dry in the anus' and < 'mired in the anus', 'heartburn' < 'burn (of a fire) in the chest', 'trenchmouth' < 'cooked in the throat', 'faint' < 'the body is forgotten', 'passed out drunk; forgetful' < 'always forgetful in the mind', 'pass out, faint (probably due to lack of air)' < 'break or split rope in throat', 'run out of breath' < 'break or split rope of breath', and 'simultaneously out of breath, overtired and overhungry' < 'split (in) the chest' (as to split apple by hand). The last five show two subsystems at work: 'faint' and 'pass out (if drunk)' are derived from the root 'to forget', and three 'out of breath' words are derived from 'break or split rope' or 'split (by hand)'.
  - 4. Words descriptive of appearance: 'black eye' <
    'bruised on eye', 'tuberculosis' < 'coughing face',
    'jaundice' < 'bile' < 'gall-bladder' < 'full', 'lame'

- < 'climbing rump', 'hunchback' < 'lump on the back',
  'hemmorhoids' < 'open sores in rump', 'strawberry birthmark on arm' < 'strawberry on arm', 'wart' < 'dirty (+
  unknown affix)', 'diarrhea' < 'ripped up', 'have a crooked
  jaw' < 'jaw twisted or turned wrong way', 'smallpox' <
  'gills on the body';</pre>
- 5. Words descriptive of actions: 'grinding one's teeth' < 'twisting or turning the teeth the wrong way', 'throw a tantrum' < 'club oneself', 'scar' < 'something healed', 'toothless, teeth missing' < 'moisture or spray in throat' (referring to the sound of spittle during talking), and 'runny nose' < 'to spit from nose':
- 6. Words descriptive of functions: 'paralyzed' < 'dead',
  'stroke' < 'half of body dead or paralyzed', 'cripple,
  to limp' < 'broken rump or hip'.
- 7. Plural-continuative derivation: 'shiver' < 'trembling' because a shiver is multiple trembles, 'steady toothache' < 'have a plural or continous tooth', and 'stutter' has 'plural' reduplication because a stutter is a repetition.

  8. Words requiring the word 'sickness': 'menstruation' < 'moon sickness', 'a cold' < 'chill sickness', and 'spirit sickness' < 'spirit power or possession sickness'.

  9. Words requiring 'can't, impossible to': 'mute' < 'can't talk' and 'insommia' < 'can't sleep'.

Words relating to accident/injury show no morphosememic systems except that the roots are nearly all verbs which can each be inflected with most of the somatic suffixes (the latter retaining their locative meaning as a set). A few encodotal things are all that can be noted otherwise: 'choke on food' < 'mired in the chest' and 'hit (with arrow, bullet, etc.), wounded' < 'poked'.

Words relating to medicine/curing show several wavs of expressing the sememe 'medicine': st'almexw. -?&.ltel. and -tel: the first is used with somatic suffixes to specify where the medicine is to work, the second is used with roots for body parts or roots showing functions of the medicine, the third is only attested with a root showing the medicine's function ('vomit medicine'). Another way of specifying medicines is by naming a plant for the disease it cures: 'swamp gooseberry' < 'hemmorhoid plant', 'trillium' < 'cataracts (?)' < 'swimming like a fish in the eyes'. The word for curing is also interesting since it refers only to an Indian doctor's curing and is related to or derived from the word 'chase something away'. I have not yet had access to much of the vocabulary of Indian doctoring, but another interesting word from that area is k, wek, wiye 0 training oneself to be an Indian doctor or spirit dancer' < 'climbing oneself'. The training involves fasting, purification, and long hikes into the wilderness and so involves both physical and spiritual climbing of oneself;

Finally there is the area of non-human body functions and dysfunctions. This area shows a number of words specialized and generalized in different ways than in English. Greater specialization: three stages of spawning have distinct terms: 'swim (of a fish)' is a different word from 'swim (of a human)': -61ec with animals and birds means 'droppings' as distinct from human feces, s'á.', and from the human suffix -élec, -(a)lec 'on the rump': an animal 'growls' with a different word than a human (though the roots appear related). Greater generalization: animals and birds can q w & 1 ('talk') like humans: the word t'i'lem 'sing' can be used of birds and insects as well as of people and with insects refers to buzzing; an insect 'stings' and a snake 'hisses' with words a person uses to 'shoot' and 'whisper'; the vocabulary of bird eggs ('eggs', 'nest', 'sit on eggs') treats all three words by referring to the eggs as 'young children'. The corpus of words referring to non-human body functions and dysfunctions still is rather incomplete, but it shows some generalization of terms in the direction of considering fauna to have more human attributes than we do in English. This anthropomorphic trend is born out in legends, stories, and folk beliefs as well (for example in the legend of the Wealick brothers, the elder of whom became a bear, and in the refusal of some Stalo people to kill bears because they believe them to be people who

can take off their coats and become human, and in stories of wolves understanding and responding to human language).

13.2. Survey of the Morphosememics of Other Domains. There is no space here to go deeply into the morphosememic structure of each of the other domains mentioned in Chapter 12. There is no room to treat them in any detail nor to list the data. So this section will survey the structures of the following domains briefly (as outlined in Chapter 12): 1. Land features and place names, 2. Weather features, 3. Water features, 4. Fire. 5. Time periods and tense, 6. Flora, 7. Categories of humans and proper names, 8. Religion and the spirit, 9. Buildings and household goods, 10. Clothing, 11. Hunting and processing the catch, 12. Fishing and processing the catch, 13. Tools for making things, 14. Cedar root baskets, 15. Canoes and boats, 16. Emotions and feelings, attitudes and mental processes, 17. Senses: sights, touches, sounds, tastes, smells, 18. Adverbials: directions and qualifiers, 19. Demonstratives and auxiliaries, 20. Personal pronouns, 21. Transitivizers and intransitivizers and benefactive, 22. Mood (including interjections), 23. Voice, 24. Continuative and plural, 25. Numerals, 26. Prepositionals, 27. Pconj's. The other domains

have not been gathered together yet in list form to be surveyed. The features and functions named and elaborated in each domain show how the Upper Stalo perceive their environment.

13.2.1. Land Features and Place Names. As mentioned in the semantics. 'mountain (any size)' and 'rock (any size larger than pebble)' are named with the same term, sme·lt. There is no word for rolling hill, but there are sqatemeylep and tewelehilep (< tawela 'tilted'), both terms meaning 'sloping ground' and leq'Eylep 'level ground' (< 16q' 'level'). Terms for canyons and steep cliffs are elaborated (xéylés 'very steep slope, steep shore, steep dropoff' (< 'marked in face'), sxexék' 'canyon (narrow, walledin with rock)' (< 'wedged'). (s)a'Walaal 'vertical rock face, cliff', xeq'ét 'bluff', 6éq 'steep', etc.). The suffix -flep - - Eylep 'ground, land' of course is common. A number of mountain features are elaborated (swec's? & 'summit, top of mountain', wec'& 'get to summit'. sx wf.tel 'basin; morain lake; chamberpot', yelt 'to rockslide', yelt to me qe 'have a snowslide. to avalanche', lileqsy 'glacier, Mt. Cheam' (lileqsy was originally the name of the woman (wife of Mt. Baker) who ran away and settled on the Fraser with her children and dog, all becoming mountains), kwelq&ylem 'cave'.

etc.). There are fewer terms for things in the flats (spéłxel 'prairie, treeless area', mágwem 'swamp, bog, marsh: swamp tea. Labrador tea'). A 'point of land' is s?Élqsəl and the 'tail of an island' is  $s\theta$ 'əmé $x^W$ ələc with somatic suffixes for 'nose, point' and 'bottom, rump'. Placenames also use many sematic suffixes. anthropomorphizing the geography if you will (-elec, -á0əl, -əs, -ə(1)qs(əl), -əq $^{W}$  - -íq $^{W}$ , and -qəl each appear in four or more placenames). sq'aw- 'a bend or turn (in river or road)' and sx way- (< x b y 'many people died at the same time') are common roots in placenames (found in at least four each). Areas named in placenames include: settlements, mountains and rocks, points on the river, turns in the river, mouths of creeks, many rock formations (often said to be people turned to stone by Xexéls 'the Transformer(s)'). channels, rivers and creeks (usually two words: place name + stá·lo(w) 'river'), locations where plants or resources or animals are found (papq Wem 'Popkum. puffballs', ciyá·m 'Cheam village, wild strawberry place', xwaxwel&.tp 'Yale, Stalo village below Yale Creek' (< 'willow tree' because a single willow stood there for years), ?slq&.yem 'place on rcck wall of Fraser where lots of snakes sun themselves (above xeq'ételec which is above American Bar)', etc.), lakes, springs (qwa.ls 'Harrison Hot Springs, boiling'), and waterfalls ('Elk Creek falls, spawning ground'). Places where things were done were also named (as in k, wao welife's 'Coqualectza, place to club clothes or blankets', c'iyéqtel 'Tzeachten, fish weir', t'smiyshá'y 'Tamihi Mountain, hermaphrodite babies finish (such deformed babies were left to die on that mountain)'. etc.). Some places are named for stories too long to explain here (c's?f'les 'Chehalis, on top of the chest', θ'awέ·lí 'Soowahlie, melted or wasted away'. yaq wyaq wi.ws 'Yakweakwioose, repeatedly burnt out (village or grass covering)', sx wax wiymel 'settlement near Katz Reserve. many people died in the past (an epidemic wiped out 36 pit houses)', etc.). Other features named include the following minerals: t'amq'a0al 'jade, any agate' (< t'am- 'chop' because jade was used as a whetstone), syic'em 'sand', (spá·lk, we 'dust', 6'éxet 'gravel'), st'ewók, w 'white clay (used for whitening powder, with wool)', se'i •qel 'wet mud', 6'ée'el 'crystal', cikmel 'iron, silver (in silver money)' (< Chinook Jargon). xyet 'lead, weight, sinker, shot, bullet', qWiqWi 'copper',  $k^{W}$ ú·l 'gold' (< English). sq. Wél 'hard metal found in mines (used for arrowheads)'.

13,2.2. Weather Features. 100 terms for weather

(including 16 idiomatic phrases) have been found to date. Almost half of these are verbs, showing equal emphasis upon weather actions or functions and weather products. At least 20 of the nominal terms have corresponding varbal forms (sqwstxyem 'fog' + qwstxyem 'get fog(gy)', spehf·ls 'wind' + pehf·ls 'to blow (of wind)', even swsyel 'sky, day, weather' + wsyel 'become day' and waweyel 'getting day, dawn').

The domain as a whole includes terms for: the sun and lighting effects (19 or 20 terms, including t'áltel 'an eclipse' and t'éltes 'to eclipse s-th' (< t'êl 'go out of sight')), the moon and its periods (9 terms or phrases), stars and constellations (5 terms), clouds and fog (5 terms), wind (16 terms), warm or cold weather (7 or 8 terms), actions of Thunderbird (6 weather-causing actions), rain (9 terms), hail (4 terms), snow (7 terms), ice and sleet (6 terms), frost and dew (5 terms), and bad vs. good weather (4 terms).

Quite a few of these terms use somatic metaphors and somatic suffixes: sxelxéle-s to syá'q em 'ray's of light' (< 'legs of the sun'), sooqelx 616m ~ (Cheh. or Tait) swétex el 'rainbow' and (Chill.) Gelqx 616m 'getting a rainbow' (-x el 'leg, foot', 66q 'steep', -el 'become, go, get', -l- 'plural' in the latter word,

czyczywelá·sem 'rays of sun from between clouds' (< ogyogyxelá 'shadow' + -á·s 'on the face'. -em 'middle voice!): sk; wexyá·s 'moon' (< k; wexy- 'count'. -á·s 'face'): xeylxelemás 'fleecy wave clouds (resembling sheep)' (< 'repeatedly marked on the face'); ck; Welk; Walx yal and g'eyg'alc'iyasam spahe ls (both) 'whirlwind' (-xyel 'leg', q'syq'elc'- 'twisting', -as 'in the face'. -em 'middle voice'), spatpeteléxel 'thunder wind' (< 'repeated blowing with mouth' + '(on) the arm'); actions of sx wax a.s 'Thunderbird. thunder' (and sx wex wear as itself as noted earlier): xéleq't te sxwexwá·s 'to lightning' and xélxeleq't te sxwexwá·s 'lightning' (< xéleq't 'open on eyes', xélxeleq't 'opening one's eyes repeatedly'), qwiyxtes to leptels ta sx wex was 'lightning' and q vivxtes to h'qéels to sx wax a's 'thunder' (q iyxtes 'he shakes them', léptels 'his eyelashes', (s) \*'q& ls 'his wings')(cp. also qwiyxGet te téméxw 'have an earthquake' < 'the earth shakes itself'), me sexwe te sxwexwa's 'start to rain' (saxwe 'urinate'): xwemxyel 'pouring (of rain)' (xwem 'hurry, fast', -xyel '(in) legs or feet'), xwee'xyel ~ x wec'x el 'stop raining' (r.m.u. + -x el '(in) legs or feet'), himosxyel 'to rain and snow together (when the snow melts fast)' or 'raining and snowing together' (probably he- 'continuative', mé qe 'snow', -xyel as

in  $x^w \text{6mx}^y \text{el}$ , etc.),  $sk^{1w} \text{eq}^w x^w \text{4*s} \left(k^{1w} - \mathbf{q}^{1w}\right)$  'the hail' and  $k^{1w} \text{eq}^w x^w \text{4*s} \left(k^{1w} - \mathbf{q}^{1w}\right)$  'to hail'  $\left(k^{1w} \text{6q}^w\right)$  'to club with sticklike object',  $\mathbf{q}^{1w} \text{6q}^w$  'to beat', -4\*s 'in the face')(the other words for 'hail' and 'hailing' appear to have  $k^* \text{6m-}$  as root  $< c^2 k^2 \text{6m}$  'jump', cp. 'grasshopper'), syslyelisem 'icicles' < y 6l6s 'tooth' + R 'many, plural'); one of the variants for 'dew'  $s \text{16mx}^y \text{el} < s^-$  'nominal'  $+ \frac{1}{2} \text{6m-}$  'moisture, rain'  $+ -x^y \text{el}$  'on the foot' (actually underfoot).

Other morphosememic patterns to note are: the elaboration of words for rain and snow (słómóx the rain', łómóx 'to rain', łómt 'rainshower', łslótom 'to sprinkle' (< 'one gets splashed'). lemlémex 'rain on and off', x weary al 'pouring (of rain), raining hard', x w 60 x y el 'stop raining', himgex el 'raining and snowing together'. xwi.q, wel 'to sleet, rain freezing rain, silver thaw', syiq 'falling snow', mé qe 'snow on the ground' (~ 'to snow' in a few idiolects), yiq 'to snow'. g'elsivegem 'snowdrift' or 'to snowdrift' (?), and skwelxyame 'fine snow that drifts in through cracks'); the compatibility of both x&x' 'turbulent' and liqwel 'calm' with both wird and water, the words for cessation of wind and of rain (Cheh. comq 'to stop blowing (of the wind)', x w 60 x el (0 c') 'to stop raining', is there a word for 'to stop snowing'?), references

to the moon burning out and being new (xews to sk' wax ya's 'first quarter of the moon' < xews 'new' (the month begins on the first visible sliver after the blacked-out moon). 8260 ex to sk, Wax a's the last quarter of the moon' < 0'60'ex 'burning out'. 0'ex te sk; War Ja's the new moon (blacked-out)' < 0'ax burned out'), and the existence of constellations (in a few cases corresponding to ours, as in q'ayiyec' 'the Elk (corresponding to the Big Dipper or Ursa Major): Hill-Tout (1902) and Wells (1965) report others which I have not yet elicited but which seem transliterable as te lewamet 'Milky Way' (possibly < lewamet 'costume of any kind of dancer'), sole 'Pleiades' (possibly sí·le 'grandparent'), and waweyel kwasel 'morming star (usually Venus, but also can be Mars, Jupiter, or Saturn when rising before the sun)' (< wawayal 'getting day, dawn', kwasel 'star')).

13.2.3. Water Features. This domain contains river features (about 85, a few of which may be used with other bodies of water), functions of water, and

<sup>1.</sup> Charles Hill-Tout: "Ethnological Studies of the Mainland Halkomelem," in <u>Report</u> of the 72nd Neeting of the British Association for the Advancement of Science, 1902, pp.355-490. And Oliver N. Wells: <u>A Vocebulary of Native Words in the Halkomelem Language</u>, second ed., 1965, published by the author, pp.1-47.

bodies of water other than rivers (about nine, largely unanalyzable, including k'\*á\*',k'\*& 'ocean, sea', sk\*61 'waterfall', sk\*fk\*el 'small waterfall', 61x 'spring', máq\*em 'marsh, swamp, bog; swamp tea', xá\*cɛ 'lake', xáxcɛ 'small lake, pond', sqeqá\*qel 'pond (with clear water)', 6'eq\*ftcɛ 'dirty pond, dirty puddle'). The Stalo people are named for the river, i.e. stá\*lo(w) '(any) river, Fraser River, Halkomelem-speaking people of the Fraser River', and live too far from the ocean to make use of it. Thus it is not surprising that river terms are elaborated in Chilliwack and other Upper Stalo dialects. The only specializations (and analyzable terms) in non-river features are those of lakes and ponds; the only distinctions there are in size and clarity.

Functions of water have not been fully catalogued yet but include:  $q^W$ ós 'fall into water',  $k^{*W}$ ó£ 'spill (of liquid or solid, of river into dry area)', qá' 'water', pá·lx "em 'to steam', píwels 'to freeze', spí·w 'ice', q<sup>W</sup>óls ~ Łátq "em 'to boil', 0 'q'óm 'a drop of water, to drip', p'éq' "em 'to bubble, to foam', t'syfc'em 'fizzing (of s-th dropped in water, of soda pop, etc.)', q' "étr'c'em 'sloshing sound, gurgling', k' "ék' "elem 'pouring a liquid', 0'éxet 'scald s-th', and the like, to give a sample. Some of these terms

also appear in other domains too (weather, sounds, preparing food, etc.).

River terms so far include: types of river (8 terms), parts of rivers (19 terms), midstream obstructions (5 terms), turbulence (15 terms), seasonal fluctuations (11 terms), directions (on and with respect to rivers)(21 terms), depth (5 terms), and clarity (2 terms). Types of rivers found so far include stá·lo(w) 'river', státelo(w) 'creek', teltelewém 'lots of little streams (as come down a mountain after a rain)', sc'éléx 'slough, backwater stream', leltélec 'channel (that makes an island)', and corresponding to each root in this set are verbs to travel on these, i.e., tá·l 'go toward or out in the middle of the river, go away from shore (in a canoe or boat)', c'éléx' 'go into a slough or quiet backwater', and leltélecem 'go through a channel'.

Parts of rivers include shore features such as semiabel 'riverbank', péq els 'riverbank caving off' (< peq 'split off' + 'tooth (?)'), stalowé'lé 'riverbed' (-é'lé 'container'), 'éeelec 'bottom (of river, lake, waterfall, basket, anything)', cécew 'beach, shore', syí'c'emilep 'sand bar', and probably features such as syí'c'em 'sand', 0'éyet 'gravel', q emilép 'cottonwood bark driftwood (used to carve toy canoes)',

qwifer 'driftwood: snag', qwelqweley 'driftwood bits of small bits of wood and bark', etc. Parts of rivers also include features of shape: sk water cal 'inlet' (< 'inside' + 'in head'). sméys 'bay'. sq'éwqel 'a bend or curve (in river, lakeshore or road)', q'ewqéylém 'go around a bend or curve (river, lakeshore, road)', and st'ex 'fork (in river, road, tree)'; these last three share compatibility with 'river' and 'road'. and the last nine words mentioned before st'sx all probably share compatibility with 'lake' as well as 'river'. Midstream obstructions include items like h'acés 'island', h'íh'cas 'small island', smé·lt 'rock', steqteq 'jampile, logjam' (< teq- 'closed'), oW±€.y 'snag: driftwood' and probably 'sandbar' as above. These are also compatible with 'lake' as well as with 'river' (except possibly steqteq and syic'emileo).

Turbulence (and calmness) is an elaborated area like parts of rivers, and directions; it even includes a lexical suffix -eleq --£leq 'waves' and a cover term(? x£x'' 'turbulence (of wind or water)'. It also includes features like: 'wave' (Chill., Tait: syá'lc'e, Seabird Is. syá'lec'ep, Cheh. sm£'yeleq), 'waves are getting bigger' (eieeh£leq), 'eddy' (xwelk'wi'm and xwtiyti'm < xw(e)- 'go' + tiyt 'upriver' + -i'm 'repeatedly')

and 'to eddy' (x"6/k'W), q'&yexem 'whirlpool' (possibly < q'&yx- 'black'), lex"6m te qá· 'rapids, fast water', łá·ltes 'spray', sp'áq' em 'foam', sqém 'died down a bit (of water), quieter (of water)', sqéqem 'calm water' and líq"el 'calm or smooth'.

Seasonal fluctuations are expressed by verbs such as spipew 'frozen', c'iyx 'dry', k'pi'l 'go down', (Tait) 0f ~ (Chill.) hfk et 'get big', or k' ek' fy 'climbing, ascending' followed by te stá'lo 'the river' or te qá' 'the water'; but there are five specialized terms also used (less often): ls 0'6'm 'subsiding, (water) going down, tide going out, be low tide', me qém'el tide coming in', sqém'el 'tide' (cp. qá'm 'fetch water' me lec'léc' 'be high tide', temqaqá' 'high water time'. There is little tidal fluctuation on the rivers, so snow runoff and summer heat produce most of these 'tidal' effects.

Directions show a great deal of morphosememic structure. These terms are of several types: directions toward and away from the river, upriver and downriver, both previous types used at once (regarding sides of a house), and for up and down movement in the river one pair of words (p'6kW 'float, come to surface' and míq' 'sink'). The river system is so central to the Stalo people that these terms are the

main set of general directional terms besides demonstratives and the phrase li to smé lt 'to the mountain'. Reference to the mountains is less useful than to the river because there are mountains on three sides (north. south, and east below Hope, B.C., north, east, and west above). Terms for toward and away from the river have been analyzed in the last chapter (cúcu and tá·1 (both) 'toward the river (on land), away from shore (on the river)' and ca'leg" 'toward the backwoods, away from the river'). Upriver and downriver terms: w60,00 'drift downstream, drown', la's 'drift downriver', ?shiw 'upstream' and tiyt 'upriver (perhaps more upriver than ?shiw)' are the basic roots: they are suffixed with -i.l (~ -&yl ~ -el) 'go' and -em 'middle voice' or -exel 'way, -wards' and prefixed with x we-'go' or he- ~ R- 'continuative' or tel- 'from'. This produces: h6-wq, w and wf-weq, w-a6et and h6-wq, w-eleem 'drifting downstream' (all three), to-ta's 'drifting downriver', woq' - £yl-em 'drift downstream', x - wq' --£yl-em 'go downstream', xwe-hiw-el 'go upstream'. xWa-hiw-al-am 'go(ing) upstream', lás-axal 'downriver (-way), down that way', tiyt-exel 'upriver way, up that way, way upriver', tel-ta's 'from downriver'. tel-tiyt 'from upriver, people from upriver, dialect from upriver (i.e. Tait dialect)'. s-léq'-qel 'way

upriver' is not completely clear yet but may be related to teq'ewft 'opposite side of house (on inside)'. For the sides or ends of a house -£xel (related to -exel) is added to both systems mentioned, as is snominalizer: cucuw£xel 'front end of house (inside or out)(side toward the river)', scelq &xel (q - k)' back end of house (inside or out)(side away from the river)', stiyt£xel 'upper end of house (inside or out) (upriver side)', sewq &xel 'lower end of house (inside or out) side or out)(downriver side)'.

The number of somatic suffixes used (with semological extensions of meaning) has not been mentioned. -(e)lec 'bottom', -40el 'mouth', -qel 'head', and even -eles 'teeth' (in  $peq^W$ -eles 'riverbank breaking off') are used in the domain of river (or water) features.  $x^We$ - 'go' is found as well in areas besides directions ( $x^We$ -26yem 'clear (of moving water)' < '85yem 'strong',  $x^Wtiytfm - x^Welk'Mfm 'an eddy'$ ). The domain of water features (especially river features) is of course closely related to that of cances and canceing.

13.2.4. Fire. This domain is not very completely compiled or analyzed, but some 40 words at least belong, not including words for types of cooking or curing.

These 40 seem to fall in several categories: qualities and parts of a fire, technology of fire, lighting and

extinguishing of fire, and uses of fire. Qualities and parts of a fire include terms like péyc'em 'to spark, a spark', xwátkwem 'a flame, have a flame', wáwegem 'red blaze (of a fire)', yéqw''to burn', héyeqw''burning; fire', p'âk'em 'to smoke, to make smoke; to smoke (tobacco)', sp'âk'em 'smoke', p'ap'ek'é'legem 'smoky smell' (even p'elk'ámeł 'choked with smoke'), k'élxem 'crackle or pop (of a log on fire, firecrackers, etc.)', sxwiyéltel 'heavy dirty cinders, embers, charcoal', xw(h)íyeqwele 'soot', sc'é's 'fine white ashes', etc. Note the specialization of words with smoke (others will be seen) and the three kinds of charcoal.

The technology of fire includes terms dealing with firewood, ingredients for starting a fire, and equipment for making and using fire. For example: siyá·t or syá·t 'firewood', syáyt 'little sticks of firewood', q'pét te siyá·t 'gather firewood', siyaté·wtx 'woodshed', k'wíxwetp 'pitchwood', e'iq'w6lcep 'chop wood' (e'fq'w- 'punch', -elcep 'firewood'), syeqwté·ltel 'tinder (dried cedar bark pieces)', sísq' 'kindling' (séq' 'split', R- diminutive), sxwhéyeqwtlt 'firepit in house', sí·lceptel 'firedrill' (sí·l- 'spin', -elcep 'firewood', -tel 'device'), sxwé-yelcep 'fire poker', sp'ak'emé·létel

'smoke-hole (built with covered cupola to keep out rain)', k'éc'eq 'torchlighting firebox, platform and shield for fire in cance for torchlighting', stú'p 'stove', méces 'match, matches', etc. Note the special lexical suffix -elcep 'firewood' and the items which are not found in the wh\_te man's technology (firedrill, firebox, etc.) as well as items borrowed from white technology (stove, match, etc.).

Uses of fire also include terms not found in white technology (as well as some that are): p'h'amt 'to smudge (burn greens (esp. bracken fern) for smoke to get rid of mosquitoes)', lexéywe 'spear fish by torchlight, to torchlight', peláqel 'torch (made of dried sockeye head or pitchwood)', p'ék'\*et 'smoke s-th (hides, salmon, meat)', yeq e'é's 's 'burn the belongings of one deceased in a funeral ceremony, burn food for the dead in burning ritual, "feed the dead", have a burning', syeq e'é's 's 'food offered the dead at a burning ceremony', \( \frac{1}{2} \) '\( \frac{1}{2} \) '

13.2.5. Time and Tense. Tense has already been considered in the chapters on verbs, nominals, and demonstratives. With independent words for time, the following periods are found: syilálem 'year',

sk, wex a 'moon, month' (s- nominalizer, k, wex - 'to count', -á·s 'face')(used with quarters of the moon). ±o€·lc' 'moon, month' (use uncertain), tem- 'season, time for', no word for week, sweyel 'day, weather, sky', sk, wf.ls 'what hour?', no words for minutes or 'seconds'. It is unclear how specific years were referred to but probably by description of some event; in giving someone's age, the number can precede either syilalem or mé os 'fallen snow(s)'. Each year began at about the first quarter of the moon in October. The moon beginning in October was the first of each year. There is no cover term for seasons but four are named: temo; Wiles 'Spring' (the root is said to mean 'plants coming up' but has not been attested otherwise), təmk, wak, was 'Summer, hot time', təmhil £lx 'Fall' (possibly < hil-em 'fall, tumble'), temxeyh' 'Winter. cold time'.

The quarters of the moon have been mentioned in weather features. There are names also for each month; each month was a lunar month (29.5 days) beginning on the first quarter of the moon visible after the dark moon. Each name refers to a time for some activity or happening: the moon beginning in October was called tempá·q·W (- tempá·k·W) 'time for Chehalis spring salmon (time to catch and smoke-dry them)' or temcéttel

'time to dry fish'; the moon that began in November was xyec'6 westel 'time to store away canoe paddles (for the winter)' (xyec'- 'store away', -6.wes 'canoe paddles', -tel 'device (i.e. month)' or 'reciprocal') (paddles are stored with canoes because ice and rain or snow prevent most canoe travel) or telx wic 'leaves are falling'; the moon beginning in December was megá's 'fallen snow season' (mé·qe 'fallen snow'); the moon of January was peláges 'torch season' (< pelágel 'torch (used for torchlighting in January)'); the moon of February was tema i.q'es 'time to get jammed in or stuck! (< h'i.q' 'jammed or stuck (as in a trap or under s-th fallen on top)', -es 'season' or possibly 'face'; so called because people lived in pit houses at this time in winter and with a heavy snow the entry hole at the top of the pit house might be jammed); the moon beginning in February could also be called temt'elémces 'time one's hand sticks to things (from cold)': the moon beginning in March had two names, welek'es 'little frog season (when they begin talking)' or qWelay@f.lem '(birds) making music'; the moon in April was temk wik wex ol 'time for baby sockeye salmon' or lemtales 'time of spring showers in the eyes'; the moon beginning in May was tem?elile 'salmonberry time'; that in June was temqaqá. 'high water time' or

temt'£mx 'time for gooseberries' (less common name); the moon beginning in July was 'epáléstel 'tenth moon' or temq '£:1 'time for mosquitoes' or at Yale temc£ltel 'time to dry fish' (fish was wind-dried there as early as July); the moon in August was temeéqi 'time for sockeye salmon'; and the moon beginning in September was temk' '#á:lex 'time for dog salmon'.

Some years there were thirteen moons (the extra name probably taken from and during a multiply-named month), and some years, more frequently, there were twelve. The events described in the month names were probably taken as more important than the exact 29.5 day periods. And it seems people frequently disagreed over which moon it was. Only a few people took the exact count (one man tied knots long ago, and another at Yale used sticks stuck in the ground). At any rate, the morphosenemic patterns are pretty clear: eight of the terms relate to gathering and processing food, four relate to activities of fauna, seven relate to weather or are caused by weather directly, and one is numbered (allowing the calculation of when the year begins).

The days of the week and hours are given in the chapter on numerals. Days of the week were given names after the white man brought Christianity, as is obvious

from Sunday < 'sacred day'. The morphosememics of Saturday 'broken (of rope or string)' and Monday 'day after (Sunday)' is interesting but not systematic.

The other days are named from numerals implying that Monday is the first day of the week and showing a preference for less-used allomorphs of numerals (00m-in 'Tuesday' and mos as a rare variant in 'Thursday'). The system of hours and lesser periods was discussed and shows no morphosememic pattern except the use of numerals.

Other time periods include past, present, or future days, relative time periods (largely Vadv's), and divisions of the day other than hours. The first of these includes words and phrases like celf-qel(el) 'yesterday', yewflmels k, we celf-qel(el) 'day before yesterday', tlawfyfl 'today', tla x welf-lt 'tonight', wfyeles 'tomorrow', and yelfw k, we wfyeles 'day after tomorrow'. The present is denoted using tla- - tla 'this', the past using -el 'past tense', and the future using -es (perhaps with 'cyclic period' alloseme to imply 'future'). For two days removed from present in either direction Vprep A N is used instead of swfyel Vprep A N (i.e., 'day before yesterday' < 'before yesterday' and 'day after tomorrow' < 'after tomorrow').

Relative time periods include words like cf.ys

'lately, recently', hf.0 ~ welf.0(01) 'long ago', metx "6m 'early', ?á.yem 'late', and other words listed as Vadv's. tla- and tense suffixes sometimes play a role with these words as well.

Finally divisions of day other than hours includes terms like: waweyel 'dawn' (< 'being day'), le'tel 'morning' (< let 'be night' + -et 'past tense'). tóx wsweyel 'noon, mid-day', yelé w tóx wsweyel 'afternoon! (< 'after mid-day'), le 6'5x te syá'qWem 'sunset! (< 'the sun has burned out'). 0 til 'get dark'. Af.t 'darkness', x welf. It 'evening' (< 'go being night'  $x^{W_{0-}} + 1 \cdot t + -R_{0-}$  'continuative'), slé t 'night', lé t 'be night', tex slet 'midnight'. These show some interesting morphosememic patterns: 'morning' is the 'mast tense' of 'night', 'dawn' is 'being day' and 'evening' is 'being night'. 'noon' and 'midnight' are both formed in the same way, mid- + day/night. All these terms (and Option which is in the process of becoming 06.t) can be seen to develop into each other much more as processes (becoming something > be something) than the terms in English. They are less like divisions of day and more like blendings. Another pattern is with 'sunset' which uses the same 'burned out' metaphor that 'new moon (i.e. dark moon)' does. 6'6x thus is compatible with 'fire', 'sun' and 'moon'.

13.2.6. Flora. This domain includes names of flora, classes and parts of flora, actions or processes of flora, and medicines. Harvesting and processing the harvest and food preparation could be considered under this domain or as related but separate domains; they are here considered separate domains. So far 136 names have been found for flora, and an additional 26 derivationally related terms are attested for specific fruit, bark, flowers, or pitch of some of the 136 flora. The derivation has been discovered for half of the 162 terms, so there is much fruit for study.

The 26 terms mentioned all show the same pattern: when {-0\pm p} 'plant, tree' is attached to them, they form the word for the whole plant, but when -0\pm p is absent they refer to the edible fruit (in four cases to the bark or wood, in two to the flower, and in one to the pitch) of the plant or tree. For example, qwo'ap 'crabapple, apple', qwo'apo\pm p' crabapple tree, apple tree' and sk'w6·lmexw' 'blackberry', sk'w6·lmexwo\pm plant'. To refer to the bark or wood, either an s- nominalizer is added (as with st'ol6m 'wild cherry bark' and sl6·y 'Douglas fir bark') or the suffix -6·y 'bark, wood' is present (as with \pm p6·y 'red cedar bark and wood' and c's6·y 'fir bark and

wood'), or both are done (sle'y). With 'wild rose' ofly refers to the fruit ('rose hips') or the flower ('wild rose'): with 'dogwood' there is no fruit so owitx refers to 'dogwood flower'. The fruit of a bitch tree' k, wix watp can only be k, wix bitch, sap'. It is certain that there are more than 26 such sets of fruit minus -olp and plant plus -olp; all of the (edible) fruit-bearing flora probably work this way. The 26 words attested in such pairs include: apple, blackberry, wild trailing blackberry, blackcap, blackhaw (berry), shiny black mountain huckleberry, blue elderberry, red elderberry, gooseberry, red-flowering current (flower has separate name). June plum, kinnickinnick berry/pea/bean, short Oregon grape, raspberry, salalberry, salmonberry, saskatoon berry, wild strawberry, thimbleberry, and the seven words above referring to bark, flowers, or pitch. The other ediblefruit-bearing flora (five more kinds of blueberries/ huckleberries, red huckleberry, two kinds of cherry, cranberry, soapberry, wineberries, hazelnut, and orange) probably follow the same morphosememic pattern because their fruits are all attested without -01p; it is merely that -elp forms for the whole plant have not been elicited yet.

Further morphosememic patterns can be seen in the

terms for flora which can be derived: 20 are named for their appearance, nine for uses as medicines, six for uses for devices, five for what the plant does. five for how it is harvested, three for its taste and two for how it is eaten, three for fauna that use it, and two for where the plant grows. These are named for their appearance: xéy0'-olp 'unripe tree' (because of its white bark) > 'alder', x(0)p-&.y-01p 'striped or scratched bark tree' > 'red cedar tree', s-xf·m-a0 'tear(s) in the mouth' > 'cottonwood sap' (the sweet sap is eaten), qwemc-á·ls 'moss berry' > 'wild bog cranberry' (resembles moss), cack ales being distant/ far in the eyes' > 'goatsbeard plant' (flowers can be seen from way far off), sxcmalex Weat 'tears on tongues' > 'wild tiger lily' (descriptive of spotted petals), sq welfp 'hair in the dirt' > 'beard moss, black moss bread' (this moss, especially the black variety growing on spruce trees, does indeed resemble hair and is baked underground to make a sweet licorice-flavored loaf), qWiqWayels 'yellowish' > 'orange color, orange fruit'. q' wayilax elp 'tree that dances' > 'white pine', G'estiyelp 'metal nail tree' > 'poplar' (because it resembles a nail sticking out of the ground), p:elp:Elq:em&.lews 'many-flashing leaves, many-sparkling leaves' or 'flashing or sparkling many leaves'

(unclear whether R is 'plural action' or 'plural object') > 'poplar', s?á·y0eqW possibly 's-th sharp on top of the head' (s- + ?sy-á0 + -eq ") > 'raspberry' (some varieties of this berry are more pointed than any other berry), c'esléc 'grows at the bottom' > 'saskatoon berry' (berries can be picked down to the base of the bush), pepq'éyá's 'being white (+ ?) in the face' > 'snowberry' (has white berries)(deglottalized p like in 'red cedar tree'). (Cheh.) gelémes 'eye in the face' > unidentified plant (good for asthma) with roots resembling eyes. ofycemx el 'soft (+ ?) in the foot' > 'plant with round bulbs like potatoes (which taste like potatoes)'. xexek, wedged' > "wild artichoke" (identity uncertain, a plant with edible bulb or root, could be eaten raw, cooked, or dried, grew on Seabird Island and by Chehalis)', c'alic'aplax (c' ~ 0') 'lots of eyes closed' > "wineberries, Japanese wineberries" (possibly 'red blackcaps')(leaves are twisted closed till just before the berries are ripe, then they open like eyes), (Tait) xéveslátel 'facing one another' > 'wild ginger (asarum caudatum)' (large paired leaves face each other), and xyswagel 'carrot-like' > 'yarrow' (the leaf is very fine and carrot-like).

Named for uses as medicines:  $\theta$   $\circ$  ex $^{W}$ iyə1p ( $x^{W}$  may

be xW) 'washing or cleansing (bark) plant' > 'red-osier dogwood' (the bark and berries are used to induce vomiting as a purgative), 0'q' "i wiyalp 'sores-in-rump-oron-genitals plant, hemorrhoids plant' > 'swamp gooseberry' (used as medicine for such sores). 0'el? & ltel 'heart medicine' > (Tait) 'juniper' and (Cheh.) 'wild singer'. xexq'elf.tp 'scratching (to itch)(medicine) plant' (x&y-q'-els 'scratching without leaving cuts. as in itching') > 'False Solomon's Seal' (used as medicine for dandruff), xyexyt'á·les 'swimming (fish-like) in the eye' > 'trillium' (used as medicine for cataracts). pépepà tem 'getting blown on by mouth' > 'rattlesnake plantain' (the top and bottom surfaces of each leaf separate and can be blown into and inflated: the inside surfaces are then applied as a poultice especially to open cuts and abrasions to promote healing), x wak, weltel 'numbing medicine' > 'big-leaved avens', 0'i0'kWimelflews 'allergic reaction leaves' > 'big-leaved avens', x weq 'wele 'tel 'hangover medicine' > 'alumroot'.

Named for uses in making devices:  $\Theta^*\mathcal{E}^*$  yey 'scalded bark' > 'blue-joint reed-grass (bleachable grass)'
(this grass is scalded and left in sun to bleach white, then it is split and used for white patterns on the outside of cedar-root baskets),  $q^*$  ewawelp probably

'staff tree/plant' > 'hardhack' (used for staff or walking stick among other things), q'emé·welp 'canoe paddle tree' > 'broadleaf maple' (used to make canoe paddles), qé·éelp 'fish spear prong plant' (qé·éex 'prong of fish spear') > 'Oceanspray' (the prong is still made from Oceanspray wood), t'é·c'elp 'fish-drying stretcher plant' > 'pink spirea' (this wood is still used to make t'é·c' 'crosspiece or stretcher to hold open drying fish'), and téx ecelp 'bow tree' > 'yew tree' (used to make bows).

Named for what the plant does: celqá'mé'berry that falls or drops' > 'blackcap berry', xéyxemels 'grabbing' > 'burdock', 6'éxê'ex (~ c'éxc'ex) 'stinging many times' > 'stinging nettle' (cp. c'éxtel 'ravtlesnake'), c'eq'wc'éq'w' 'poking many times; thorn' > '(Scotch) thistle', and c'q'wélp 'tree that pokes' > 'spruce tree'.

Named for how it is harvested: k<sup>w</sup>x<sup>w</sup>á·méls 'knock or rap the berry' > 'shiny black mountain huckleberry or blueberry', sk<sup>yw</sup>éq<sup>w</sup>ces 'something clubbed on the hand' > 'red huckleberry', t'elémelp 'stick to tree' > 'wild cherry' (the outer bark is peeled off for designs on cedar root baskets, some left natural (reddish brown) and some dyed black with alder or iron; the green inner bark is peeled for medicine; both are

tricky to peel without ruining the outer bark which seems to stick to the tree), q'Wemétx' 'pull up by the roots' (q'Wemét 'pull up by the roots') > 'water lily' (use unknown), and possibly c'esléc 'grow at the bottom' > 'saskatoon berry' (to describe harvesting).

Named for use by fauna: pipehamé·lews 'frog leaf' and słéwels te pípehà·m 'frog's mat, frog's mattress' both > 'plantain', and słéwels te spé·0 'bear's mattress' > 'sword fern' (because the female bear lies on this (and eats it) when she is going to give birth).

Named for taste: q'et'emé.yeip 'sweet-tasting bark tree' > 'balsam' (the cambium was scraped and eaten), q'éyt'a 'sweet-tasting (+?)' > 'orange honey-suckle', and q'éq'et'em sqé.w0 'sweet potato' > 'arrowleaf, wapato' (other names for this plant whose tubers were harvested in marshes and in Sumas Lake and eaten like sweet potatoes are (Chill.) xwoq.w6.ls and (Tait) sqoqew1001).

Named for how eaten: <code>tex^w±6x^w</code> 'spit out many times' > 'choke cherry' (actually rather tasty once one get used to it, but the huge stones must be spit out often) and c'ic'emé·wel 'licking a cance' > 'cottonwood sap' (c' in both cases seems an error for 6', 6'fe'em 'licking', -é·wel 'cance'; because the bark could be peeled off and the sap eaten out of it).

Named for where it grows: csw6.tp or csw6wetp
'beach tree, shore tree' > 'cottonwood' (which grows
along the cécsw 'beach, shore') and máqwm 'swamp' >
'swamp tea, Labrador tea' (mácwm actually means both).

Other morphosememic patterns include elaborations of alders (2 kinds named), blackberries (2 kinds named). blackcaps (3 named), blueberries/huckleberries (7 kinds named [note: the terms 'huckleberry' and 'blueberry' are interchangeable in botany; I have used huckleberry when the actual color is specified other than blue]). cherries (3 named), elderberries (2 named), ferns (5 kinds, 8 names), firs (2 kinds + cover term), fungus (3 kinds), gooseberries (2 kinds named) + one current. grasses (2 named + cover term), plantains (2 kinds, 3 names), reeds (4 kinds named), mosses (2 kinds named + cover term), Oregon grapes (2 kinds named), Diagnostic features (perhaps componential and allosemic) which speakers refer to to differentiate the above elaborations are as follows: tall/short: alder, blackberry, blueberry, Oregon grape mt./anywhere/swamp: alder, blueberry, fern color (black/blue/gray/red/white); blackcap, blueberry, elderberry, moss, fungus fruit bunched/not bunched: blueberry, cherry taste good/bad/poison: fern, blueberry, elderberry,

cherry, etc.)

leaf shape: fern, wineberry stickers many/normal/none: gooseberry and currant where growing, ground/under spruce/on trunk/on limbs:

plantain, moss, fern, fungus
sharp/scaldable: grass
(unclear, possibly round (+ smooth) stem/serrated stem):
 reeds

Thus: x£y0'alp 'alder', wésaway 'small mountain alder'; sk, w6.lməx v 'blackberry', sx vəlməx və± sk, v6.1--mex 'wild trailing blackberry': celqa'm6 'blackcap'. p'oq' cəlqa'ma 'whitecap (white blackcap)'. c'elic'eplex (both c' may be 6') 'wineberry (probably red blackcap)'; má·lsəm 'tall marsh blueberry', łewqí·m 'short gray marsh blueberry (with berry in bunches)'. 150'ilec 'large gray mountain huckleberry', sxw(?) exy ixy eq 'small low-bush gray mountain huckleberry (grows on summits)(probably 'dwarf blueberry (vaccinium caespitosum)), xwfxwek, mountain blueberry resembling sx w sx y ix y eq but sweeter (oval-leaved blueberry, vaccinium ovalifolium)'. kwxwá·méls 'shiny black mountain huckleberry (vaccinium membranaceum)', sqf.10 and sk, Weq ces 'red huckleberry (vaccinium parvifolium)'; kWikWels '(bitter) cherry (prunus emarginata)(grows in bunches)', (Tait) texwtex 'choke cherry (prunus

virginiana)(cherries in a line along branch)(grows at Yale and above)', t'elemeto 'wild cherry tree (probably prunus emarginata)': 6'ik bk blue elderberry'. se iwso 'red elderberry': e skws 'mountain fern with wide top (now used by florists)'. welsk wse 'poison fern that grows in swampy places', ptf·kWem 'bracken fern', séeq 'bracken fern root (can be roasted and eaten)'. (s)@x&.lem 'sword fern (root can also be baked in ashes, peeled and eaten)', shewels to speed 'sword fern', st'uslaye - (Cheh.) k'ssip 'licorice fern (grows on trunk and limbs of maple trees, perhaps on other trees, sweet licorice tasting roots chewed for colds, coughs and asthma)': l& yoto 'Douglas fir'. t'aqwelp 'white fir', c'sé'yelp 'fir tree'; q'ém'es ~ c'émés 'big white mushroom that come out from under moss (edible)', s?ámá·qWes 'bracket fungus (Fomes sp.) (grows perpendicular to trunk, edible from rotten alder logs, washed and cooked it tastes meaty like mushroom)', temest 'Indian paint fungus (probably a lichen) (red on rocks), red ochre, red paint', spapeqW 'mould (on food. clothes. etc.); t'é·mx gocseberry (ribes divaricatum, ribes lobbii)(found in marshes or swamps, has large spaced thorns)', 0'q'W1'wiyelp 'swamp gooseberry (ribes lacustre)(has many thorns all over which can infect like devil's club thorns)', sp'&.0' 'red-flowering

current (ribes sanguineum)(has no thorns)' (its flower is called q eliyes); pex to 'sharp grass (which cuts a person)', 0'6'xey or 0'6'xey 'white straw grass (reedgrass, especially bluejoint reedgrass)'. sá·x wei 'grass (all kinds)'; pipehamé·lews ~ słéwels te pípehà·m 'nlantain (common type)(grows most anywhere)', papapá tem 'rattlesnake plantain (grows under spruce trees)': s0'6'gal 'bullrush (used to weave mats)', xémxem 'horsetail reed', xweq, wel· scouring rush' (perhaps < 'drag' + '(in) container' for its use in cleaning bowls and dishes; this last-minute etymology was not entered with the others), w6.1 'round reed. tule'; mext'éles 'gray moss hanging on tree limbs', sq welfp 'beard moss (gray, black when on spruce trees, grows on trunk and limbs), black moss bread', qwa'm 'moss (any kind, on rocks or trees)'; seliyetp 'short Oregon grape' (has term for fruit seliy), 6'6'l6'iyelp 'tall Oregon grape' (lacks term for fru! ).

Other areas of the domain of flora are classes of flora, parts, actions or processes, and medicines. Medicines will not be treated further here because many of them and recipes for them are family possessions not divulged outside a given family. They are still used today and many are quite effective, but only the most common are talked about generally.

Classes of flora include about 16 terms so far, characterized by frequent use of R 'diminutive' and -alp 'plant, tree' and with words for weeds by use of -elep 'dirt, earth, ground'. Terms found include: Gegét - Ogét 'tree', OfOget (~ (Cheh.) OfOget) 'little tree', ?s?sx wiyolp 'small tree'. Goodfoot 'many trees, thicket, forest, timber', sxyixyec' 'the woods' (cp. xyec'i'lem 'go through the woods'), c'sé yelp 'fir tree'. c'eq' c'éq' elp 'thorn bush'. G'f'malp 'berry bush, berry plant', spé'lx 'vegetable food (any kind including bulbs, roots, stalks, etc.)'. xwixwel (both xw may be xw) 'small bush, shrub, underbrush', sq'apléc 'dense underbrush' (< 'something gathered together at bottom'), sc'éc'esem 'small plants' ('something growing'), c'esémelen 'weeds in garden', sgélép 'weeds; a lot of dirt; garbage', sá x el 'grass', and dWa'm 'moss'.

Farts of plants are perhaps more extensively developed (32 terms so far) and are characterized by: special terms for particular plants (14), frequent use of lexical suffix  $-\epsilon \cdot y - -\epsilon y - -iy$  'bark, wood' (9 terms) and somatic suffixes (8 or 9 terms)(especially with -ces 'hand' > 'bough'), contrast between inner and outer barks, and sememic joining of ['fruit'] and ['berry'](se'1'm), ['bark'] and ['wood'] (- $\epsilon \cdot y$ ), and

['nut'] and ['seed'] and ['heart of root'] and ['core (of anything)'] (s0'emf'wel). Also notable are several interesting but unsystematic sememic and morphosememic developments ('sewing needle, bullrush mat needle, fir or pine needle'. 'lump on tree (burl). lump on person (goiter, etc.)'; 'knothole' < 'container of branch'. 'pussywillow' < 'puppies in the hand'. etc.). Some of these terms for parts of plants are: s-0'i'm 'berry, fruit', s-0'em-i'wel 'nut, seed, heart of root (removed in root-splitting), core (of anything), s-666q-iy 'green inner shoots (of blackcap, salmonberry, thimbleberry, cow parsnip, wild rhubarb, fireweed, possibly others)(peeled and eaten raw in spring)', sag, outer part of stem or sprout (of cow parsnip, and perhaps other plants)', 0'ép-ey-eqW 'inner part of berry (hull) left on bush when certain berries are picked (raspberry, blackcap, wineberry, thimbleberry, salmonberry, etc., not blackberry, etc.) ( < 'closed (of eye)' + 'bark, wood' + 'on top of head'), k wenlex w 'root', sc'é.xyt 'branch', sc'éxyt-ces 'limb (of tree, bush)'. sc'exyt-é·le 'knothole', xpé·y-ces 'cedar limb, cedar bough', s-lew-iy 'inner cedar bark', sák, wem (q, w?) 'outer cedar bark, cedar bark splint', s-l-é·y 'Douglas fir bark or wood', c's-é·y 'fir bark or wood', sc'á·le 'leaf', s-p'é·q'em 'bloom, flower',

p'é0'-tel or p'60'-tel 'needle (fir, pine, sewing, mat)', (Tait) sc'ék' 'cone (of fir, pine, etc.)', p'el-y-i ws 'bark', x eylem 'vegetable fibres or strings, string, thread, rope', smecf 'lump (on tree or person), burl, goiter', k'Wix 'pitch, sap, gum', k, wix w-elp 'pitchwood (usually fir)', se'ik w-em 'tiny slivers of fir bark', s's-lec 'bottom or trunk of tree', st'éx 'fork (in tree, river, road)', s-t'it'ex-ay-eq 'fork in root or tree', c'eq' c'éc' 'thorn', (Cheh.) sxw-t'ém-acal ~ (Tait) súsak' (< Thompson [šíšek, "]) 'cedar sapling', sq eq eméy-ces 'pussy willow' (sq went'y 'dog' + R- 'diminutive' > sq wiq we emery 'puppy' + Ae of i 'plural (of diminutive)' > sq def emey 'puppies' + -ces 'in the hand' > 'puppies in the hand' > 'pussy willow'), s-gew-£.me0' 'side of tree first warmed by sun' (cp. qew-90et 'warm oneself by fire'), sq'xép 'stump'.

Actions and processes of flore include 19 terms at present (some derivations) and features -em 'middle voice' and -eet 'reflexive' and s- (plus or minus R) 'participle'. -f(·)wel 'insides', -emee' 'pole, standing (tree)' and -£·lews 'leaf, leaves' are featured with living flora, while -iy - -£·y 'bark, wood' is featured with dying flora. Terms include: c'f·s-em 'grow (of flora or fauna)', x<sup>w</sup>f(y) 'uncurl, open shoots,

wake up (of flora or fauna)', p'& q'-em 'to bloom', xelc'-iwel-em 'twisted of a tree'. s-xé·lc'-emee' 'grown twisted (of a tree)', sé·wc'-em 'rustling (of leaves, papers, etc., a sharp sound only)', qf.yh'-om '(make) squeaking sound (of tree, chair, shoe, etc.)', smalmalow 'lumpy (of bark, ground, etc.)', xwis 'fall off (of leaves, berries)' (cp. x wis-et 'shake off leaves or berries'). x wes-ε·lews 'leaves falling'. pixW and pixW-em (possibly xW) 'fall of or blow (of petals or seed fluff)', t'&p-iy-0et 'die (of tree or plant)' (t'ápiyeat 'dying (of tree or plant)'), st'épiy 'dead (of tree or plant, i.e. of flora)', yeq' 'fall (of tree)' (cp. yég'-ət 'to fall a tree'), syéyəq' 'fallen tree, log', pqW-&.y 'rotten wood, decayed and broken wood' (< peqw 'break off, split off'), pqwe'yGat 'wood decays'. Note the allosemic metaphor of the plant 'waking up'.

Terms for harvesting and processing the harvest are related closely to this domain and include terms like \(\frac{1}{2}\), "at 'to bark a tree', x"iset 'shake off berries or leaves', \(\frac{1}{2}\): "m 'pick(ing) fruit (especially berries), picking leaves', etc. They have been omitted here because they are not fully compiled and because they all involve action of humans or other fauna and are not functions of flora themselves.

- 13.2.7. Categories of Humans. Seven kinterms express relationships to a child whose parent or guardian (the connecting link) has died or left. This emphasizes the Stalo concern for orphaned children and the cultural fact that Stalo children are frequently raised by relatives other than parent. Several other terms also emphasize relationship even though a connecting link dies: perhaps connected is the fact that public response is much greater in attending funerals and helping a bereaved family that it is in the surrounding white society. A number of kinterms have allosemes linking more distant relatives to nuclear family members, and this may reflect extended family lodging in longhouses and pithouses. Social status terms show four classes: chief, other upper class person, average person, and slave; terms for tribes and nationalities are usually borrowed from the outside group as are terms for non-Indian occupations. Most native occupation terms tell what the person does, often using lexws- or s- + R added to the verb root. Much interesting detail could be added to this summary.
  - 13.2.8. Religion and the Spirit. This domain (100 terms attested so far) covers the categories mentioned in the last chapter. Many of the terms

have root yuw- or yew- 'possess power of a spirit' (syéwe 'seer, fortune-teller', syúwél 'spirit power, guardian spirit; spirit song'. syuwi'l 'power to do witchcraft; witch; ritualist; an evil spell', yewi'lt 'cast an evil spell on s-o'. syéwméqces 'large rattle used by some dancers at spirit dance'. hsywileq 'a burning song: a sx wayx wey song . yuwi · leq w 'medicine song'). Several different spirits are recognized with separate terms (sx welf 'life spirit', smestiyex 'soul, spirit which can be lost and returned while remaining alive', sywel 'guardian spirit, spirit power', sle'm 'spirit power of an Indian doctor', and spaleq wie's 'ghost; corpse'). The words for 'Indian doctor' (sx<sup>W</sup>l€·m) and his power (sl€·m) seem to have root l€·m 'go. going', while -i.l - -el 'go' occurs in several of the words quoted with root yew- - yuw-; perhaps this is because all these words involve spirit-travelling to learn things, perform acts in other places, find other spirits, etc.

Other interesting metaphors involve 'climbing oneself' > 'training oneself to be an Indian doctor or spirit dancer' (k'Wek'Wiyeeet), c'616xW'go into quieter water' > sc'e16xWem 'experienced spirit dancer', xWey (or xWey) 'many people die' > sxWeyxWey mask or dance' (many people die in the

story of how the mask originated), '(rain)shelter device' > 'square dressing-room of blankets where the sy "ayy "sy dancers dress' (q'aléc'tel), 's-o is put away' > 'funeral' (q£.ylemtem), 'marking device' > 'carved grave pole' (x£.6'-ec-tel), and 'breaking one's canoe(s)' (yek' "-á.'l-em, ye-l-k' "-á.'l-em) as well as 'ix "eet' sweep up oneself' both > 'have the last spirit dance of the season, have "the sweep-up"'.

13.2.9. Buildings and Household Goods. This domain includes more non-Indian items now than Stalo items. It includes types of buildings (at least 27), parts of buildings (at least 25), kitchen utensils (at least 24), furniture (at least 17), other household items (at least 30 to 40), and how to make or use any of the foregoing (at least 33). Most of the types of buildings are listed in Chapter 5 under -€·wtx building'; some of the few that are not so suffixed are sgémél 'pit house', sgígemel 'puberty hut, menstrual hut' (< 'little pit house'), qeti.wstel 'sweat house', sx wiym f.le 'store', and t'm-1.ws-2.ls 'log cabin' ('chop(ped)' + 'on outside covering, skin' + ?). Most of the  $-\varepsilon$ ·wtx<sup>W</sup> terms describe with verb root the activity done within. Parts of buildings include things like 'main rafters' (< 'climbing up'), 'wall', 'housepost, carved inside post', 'roof plank, wall

plank, shake, covering of hole in pit house', etc.

Kitchen utensils elaborate spoons (5 terms) and bowls

or troughs (7 terms).

13.2.10. Clothing (including ornaments and glasses). Some 52 terms have been found so far (all but nine completely analyzable). -tel 'device, thing for' is common (on 15 terms). 24 of the terms use 13 somatic suffixes to specify where the item is worn. Other lexical affixes include those natural with clothing: -i.ws 'covering, skin', -élwet 'garment', -éyiws 'pants'. (< 'bark covering'), -iy 'bark', -é·le 'container', etc. -£·ləq is used to describes 'waves' in an 'underskirt'. Few borrowings are found (only three, possibly five). in spite of the fact that most of the items were brought by the white man. Some cases of diminutive R occur. Roots describe the appearance (22 cases), function (11 cases), or material (5 cases). The same root is often used in pairs or larger sets of words, with a somatic suffix telling where the item is worn: 'gathered' > 'armband' and 'garter', 'strap' > 'belt' and 'shoelace', 'poke' > 'ear-ring' and 'brooch', 'hook' > 'nose-ring' and 'necklace, neckerchief, scarf', 'clothes' > 'dress' and 'shawl', 'deep, under' > 'shirt, undershirt' and 'modern skirt' and 'underclothes' and 'underskirt, slip' and 'underpants' (all these items are worn under

or are tucked under), 'dirt' > 'moccasin' and 'diaper' and 'menstrual pad', 'denim' (itself named from 'soft rustling of material, shuffling') > 'denim clothes' and 'denim pants, jeans', 'inner cedar bark' > 'dress', 'outer cedar bark' > 'cedar bark skirt', 'animal' > 'buckskin clothes'. 'Eyeglasses' has two terms (synonymous): s-t'ale-'á·les-tel 'lose sight of in eyes device' (cp. 'eclipse') and sk<sup>yw</sup>əc-ás-təl-á·les 'window or mirror on the eyes' or 'device on the eyes for seeing faces'.

13.2.11. Eunting and Processing the Catch. This domain has not been compiled yet but includes terms for devices, methods, and verbs of hunting (at least four traps are named and paired with distinct verbs to set each, for example; also two slingshots, bow, arrow, quiver, parts of the arrow (feather for arrow, shaft, arrowhead) — all are separately named); terms for butchering, preserving, and storing meat; for tanning hides and sewing; processing wool (carding, spinning, dyeing, weaving: verbs and devices or items). There are as many verbs as nominals in this domain, and they are often paired (verb and nominal). Weaving nets (from plant fibre), weaving mats (from bullrushes or cedar bark), and weaving baskets (from cedar roots and slats, cherry bark, reedgrass) all belong with Gather-

ing and Processing the Harvest.

13.2.12. Fishing and Processing the Catch. This domain is even more highly developed than the last. 75 terms have been gathered so far and cover methods of catching and processing fish (butchering, smoking, wind-drying, storing, etc.), equipment used, and parts of the equipment. At least 15 different methods (each named) of catching fish have been found (dip-netting. still-dipping (resting dip-net on river bottom), setnetting or gill-netting, setting a line from shore for sturgeon (gang-line or cross-line), spearing, spearing sq waxem, gaffing, torchlighting, pole-fishing, jerklining, scooping eulachon, drift-netting between two canoes, drift-netting between two canoes but for sturgeon, setting a net and drifting with it, and trapping fish by weir); these are distinct names too, not inflectional variations of one another. Each method has a number of verbs and associated nominals (bait a hook, mend a net, sliding bone rings for dip-net, etc.). There are nearly 40 terms for equipment and parts of equipment (attested so far)(8 nets including separate ones for spring salmon, sockeye, coho, etc.; a fish spear has: té·l 'detachable harpoon points', qé0exW 'prong of fish spear', s'elém 'shaft of spear', taleptel 'string or line attached to points of fish spear', and c'sfcim 'spear pole knot (clove hitch)';

there is even p'&p'ek' 'sturgeon spear' and shélqs 'seal spear' beside té' 'fish spear'). There are different methods of cutting and drying fish as well, each named. Much of the equipment is named with -təl 'device' (suffixed to each name for a type of salmon it yields 'coho net', 'sockeye net', etc.). Verb roots of this domain are more actions than descriptions.

13.2.13. Tools for Making Things. 29 terms have been found so far (18 pre-contact, 11 post-contact tools). Most have -tel - -els 'device' (q.v. in Chapter 5), s- - sxw- 'nominalizer' and/or R 'continuative' (thus 'device or thing for doing an activity'). Roots are verbs describing what the item does in all cases but the few borrowings (lepyús 'hoe' < French la pioche 'pickaxe, mattock', lapél 'shovel' < French la pelle 'shovel', héme 'metal hammer (for nails)' < English, métekes 'mattock' < English).

13.2.14. Baskets and Basketry (especially cedar root). This domain includes types of baskets (cover term sf·tel 'basket' plus 14 types attested to date), parts (11 terms), and techniques (12 terms to date). Four tools used may also belong (mattock and adze for digging roots, awl and borer for making holes in weaving). Baskets are named for what they contain (nominal root + -f·1s 'container' as in: 'berry basket', 'bait

basket', 'clothes (belongings) basket', 'Indian ice cream basket'. 'stink salmon egg basket') or what they do ('squeeze face' > 'basketry cradle, baby basket' (p'a0'es). 'thing to fetch water' > 'water basket' (sx da.m), 'salmonberries in the hand' (Tait) and 'something poured' (Cheh.) both > 'little berry basket (tied around waist, berries from hand go into it, when it's full it is poured into the large berry basket (s0'imèlè) on one's back)' (li·le-ces (Tait), sk', et-em (Cheh.) respectively). 0'6wex ~ h'pét 'cedar slat basket' (\* 'ép 'deep, under') and sk " e'm 'storage basket' are probably descriptive in origin. Parts of baskets include: sk well-c coiled bottom of basket before the sides are on', yem-éwés-tel 'wide cedar root strips for baskets (wrapped around bundles of fine strips)', sx We'& tel 'fine cedar root strips for baskets (bundled and wrapped with yemewestel when the basket is constructed)', xp-á·y-s 'wide cedar slats from saplings (for 0'owex baskets)', sxéles 'basket design', st'elem 'cherry bark for basketry imbrication', (Tait) polel - (Cheh.) c'q'&yx st'elem 'blackened cherry bark for basketry imbrication', e'exey 'reedgrass bleached white (for basketry imbrication)', q'p'& lectel 'lid, cover', yémqetel 'buckskin strips zig-zagged over top of harvest as lid for

13.2.15. Cances. This domain includes types of cances or boats (10 terms), parts of cances or boats (8 terms), equipment for cance or boat (7 terms), how to make a cance (16 words or phrases, possibly plus 9 relevant tools), accidents and repairing a cance (14 terms), and how to cance (67 terms!). River conditions and counting cances and cance paddles are also related to this domain but not part of it.

Types of canoes and boats include  $sl6x^W_9$ ½ 'any canoe',  $q^9ex^W_6o^*w$ 9½ 'war canoe, largest canoe made',  $x^W_6o^*W_9$ lecem 'large river canoe with high bow' (< 'drags

its behind'), \(\lambda\)'elé-y 'shovel nose river canoe' (possibly < root in \(\lambda\)'61-1-ex 'stop' + -\(\elle\)'y '(in) bark, wood' referring to its ability to shovel onto shore so travellers could step ashore), sq 'seem 'canoe with shovel nose at each end', t\(\elle\)yowe\(\frac{1}{2}\)' racing canoe', t\(\frac{1}{2}\)' \(\elle\)' elec 'canoe or boat cut off short in back (stern couldn't be repaired)', \(\theta\)' t\(\elle\) me 'raft', pot\(\elle\)we\(\frac{1}{2}\)' row boat', and stim \(\elle\) of t 'stem boat'. Roots, except for borrowings, refer to appearance ('drag', 'broken (like string or rope)') and function ('stop', 'to cance race'); two or three terms (if sl\(\elle\)x' e\(\elle\) is counted) use -owe\(\elle\) canoe '; two refer to the "behind" ('sterm') of the canoe with -elec.

Parts of canoes include q'±£1 'bow of canoe',
751we± 'middle (on inside) of canoe', ?il£(·)q 'stern
of canoe' (these three with allosemy already traced),
±ex-elw5±-tel 'thwart or crosspiece in canoe' (< 'lay
in middle of canoe device'), ±ex-ow5s-tel 'boards on
bottom of canoe to set things on' (< 'lay paddle on
device'), (s)p5tel 'sail' (< 'blow device'),
(s)patel-£·1£ 'mast', (Tait) sx<sup>W</sup>e£yelec - (Cheh.)
e£yelectel 'rudder' (< 'fixing in rear device').

Equipment includes: slex strong reacher, cance shed, sq'smel 'cance paddle', -owos 'cance paddle', teltel 'cance bailer', sx"oq, tel 'cance pole', potowos 'carc

(for rowboat)', q'51-x"9-tel 'cance mat (to kneel on)', signed '(bullrush) mat (used for sail, cance mat, house mat, etc.)'. -tel and -owes are the common suffixes here, and roots (except for borrowed pot < English 'boat') express the activities done by the equipment ('bail device', 'pole (a cance) device', 'protect leg device').

How to make a cance (he'y 'make a cance') includes (in order of construction): yéq'et 'fall a tree'. x Eylemt 'measure it (by hanging strings to check levelness)', pagW-iwé-t 'split it in half', t'ém-eqs-t 'chop the point or end of it. shape it (of a log by chopping its end)', @iyq - fwe-t 'dig it out inside' or t'em-ewf.l-t 'chop the inside of it out' or t'emt'emet qesu leqwat 'chop notches in it and remove them', xyixy apówał 'planing a canoe'. xy ip-awi'l-t 'plane it inside'. g . W € . yt 'burn on pitch on it (of a canoe)(to keep it from cracking in the sun, burn off splinters, and apply pitch for better glide)', t'ft 'try it out' (to see if it is tippy, etc.), wiget 'spread it wide (of canoe. by filling it with water and dropping red hot rocks in to boil the water: this spreads the cance)'. Givt to texelwettel 'fix the thwarts or crosspieces', and xyá·lt te lexelwéltel lí te q'lál 'bore a hole in the thwart in the bow (so mast can be inserted at need)'.

In the subdomain just above, how to make a canoe, the roots are all activities of course; note the frequent use of -iwel ~ -ewf·l 'insides' in terms that would rarely be used outside of canoe-building. Some of the above terms are not limited to canoe construction, i.e. yéq'et, t'emt'émet, ½eq'at, t'ét, efyt, xyá·lt and probably xwéylémt. Tools used here may fit in, for example, string, hatchet, broadaxe, wedge (used while chopping out the inside), hand-hammer (of stone), mattock (used now), elbow adze for canoe-making (héléytel 'making canoes device', -le- 'plural object'), xyíxyepels 'plane', especially sq'wemóxw xyíxyepels 'horseshoe-shaped plane (bend blade with handles added) for canoe-making', and xyá·xwí·ls 'a borer, auger'.

Canoes can be xwaxwa 'light', xwstres 'heavy', or k'wsseem 'tippy' and can krwst 'tip over, spill (of canoe, cup, anything)', krwstp 'capsize', prixw' 'leak (of a canoe)', mfq' 'sink (of anything)', qep'ás '(be) turned over (of canoe in water and other things)', and everyone can qwstrall overboard, fall in water'. Repairs (estyt to sloxwel 'fixing or repairing a canoe') seem to involve -owel in all terms: qep'asowel 'canoe turned upside down on land', qep'esówel 'turning over a canoe (on land)', trskwowel or trsqwowel 'caulking a canoe', lequest 'patching a canoe' (< leqet 'patch it').

I will not quote all the terms for how to canoe, but here is a representative selection: %.yxw1.lom 'cance-riding, out cance-riding' (< % y 'keep on going:), ?ivx wi-lem 'go for a canoe ride'. ?istéytiyel group of canoes travelling upstream (in moving to camp for fish-drying)', t'&k', wel 'going across the river', tf.y 'to race a cance', 100'4001 'two cances side by side drift-netting for sturgeon' (cp. 100'ét 'wide'). xyixyemel 'two canoes side by side drift-netting' (< xyam- ~ xyem- 'shallow'?), yexwet 'untie it, loosen it (of tied-up cance or anything)'. ?alá·ł 'get aboard' (< ?el 'middle (?)' as in ?élwel). ?á·l 'be aboard'. ?a·lstex " 'put s-th aboard' (last three words can refer also to car, wagon, etc.), qwsft 'launch it, push it (or s-o) into the water, put it into the water' (< oWes 'fall into water'), xee'asem 'push out from shore (man in bow does this with paddle when crew is aboard)' (< xa0'-at 'shove s-th (i.e. sudden action)'), Gaxásem 'push out from shore (in canoe)' (< Gax-ét 'push s-th (more steady action)'), hight to slow by push out your cance into the water', ta'l 'go out into the middle of the river, go away from shore (in canoe)'. wog, Weylem 'drift downstream' (and the set of directional words for upstream and downstream), xwaxweq, wet xwahiwel 'poling upstream (in a riffle)', xwaq,wat 'pole a cance', lexéywe 'to torchlight (spear fish at night from canoe by torchlight or firelight or lantern)', lác wex to pátel 'put up a sail', pátelem 'to sail', ?éxyel 'paddle a canoe'. ye-?f.xyel 'paddling along. travelling by paddling', xwelxy-owes 'lift one's paddle while paddling'. q'á·lés - q'á·lésem 'pry at bow to turn sharply (return paddle to edge of canoe and pry against it)', q'é·lec - q'é·lécem - q'é·lécel 'pry in stern to turn cance sharply'. Limes ~ Limesem 'pull in once (at bow) to turn wide or slowly (reach out with paddle and pull it toward canoe)', 06'yelec 'steering at stern to keep cance straight (with paddle or rudder)(may involve switching sides)', c'élces 'switch sides in paddling', c'élc'el-ces ~ c'elc'el-éws--em 'repeatedly switching sides in paddling'. ?iyá 6et 'go backwards (of anything), back up, paddle backward, step backward, etc.', #61t-es-t 'splash/spray s-o with water, flip water into s-o's face (with paddle or anything), ti-lest 'bail (a cance)', q'ewq& ylem 'turn around a bend, turn around to go back', yelf.wxy 'pass by soth', tax wesem - tx wowel 'tow a cance, pull(ing) a cance by rope on bow through rough water (while a man with paddle stays in to push away from bank). t'6kW 'get stuck in mud, get mired (of anything)', x wok, wowel 'drag a canoe'. x wek, wowet 'dragging a canoe'. ?ilemowet 'carry a canoe on shoulders' (cp. ?ilém-t 'carry s-th on shoulders'), c'éléx" 'go into a quiet backwater', tê·l or tê·l 'land a canoe', q'"ím 'get out of a canoe', q'"ímels 'unloading a canoe, taking things out of a canoe', táx" te sléx" the lung canoe (on the beach)', q'éyset 'tie it up (canoe, horse, laces, nets, etc.)', and x"sc'ó·wes 'store or put away canoe paddles (for winter)'. (See chapter on numerals for forms like k'"ilówet 'how many canoes?', k'"ilówes 'how many paddles (or paddlers)?', tq'scesówet 'five canoes', tq'scesówes 'five canoe paddles, five paddlers', and 'islé·wes 'two paddles (or paddlers)').

I have given many forms here because this specialization seems quite remarkable and interesting. Most of the terms apply only to canoeing (and boating in recent times). This specialization is understandable because the Stalo are a river people (as their name implies); perhaps it has been aided by the fact that canoe-racing has survived strongly and is very popular with all ages. The area of canoeing could be divided up into types of canoe travel, launching and landing, directions, strokes, portages, sailing and bailing and poling. Several morphosememic patterns can be seen in roots and in affixes. The distinction between xee'ásem and eexásem apparently derives from that between 'shove'

and 'push' where the former implies ['single sudden action'] and the latter ['steadier, more prolonged action'l. q'á·lés(em) and q'é·léc(em) both derive from q'al- 'twist' as in q'al-q' and q'al-p' (see lexical suffixes chapter under -q' and -p'). lim-es may < li'm 'pick(ing)(fruit or leaves)' since both involve reaching out and pulling s-th back towards one. O£·y-ələc < root O€·y ['fixing'] alloseme rather than from ['making'], i.e. 'fixing (the direction of travel) in the stern'. li'l-Get 'bail' has the same root. 'spray, splash', as in léltes, lá·ltes 'spray' and ±ɛlétem 'sprinkling' (t is lost before -0et). The root in c'él-ces may be the same as in c'éléx 'go into quieter water' if the root means 'switch' and c'éléx is 'switch to quieter water'. As mentioned in the allosemy. -as - -es has alloseme ['bow of canoe'] and -(a)lac has alloseme ['stern of canoe'] in this domain (except with ±6lt-es-t). -6we± 'canoe' seems to be used in all the words for portages; -i.l ~ -al 'go' is common throughout the area of canceing. And when 'repeatedly switching sides in paddling' ones can either switch hands (-ces) or switch one's body (-ews) to do it.

13.2.16. Emotions and Feelings, Attitudes and Mental Processes. A partial list of words elicited con-

tains about 86 terms. The allosemic variations of a number of these were considered in the last chapter. The domain expectedly contains many words with somatic suffixes referring to the mind (-iwel ~ -i.wel ~ -ewel 'in the insides (the mind and feelings)', -wel '-minded', -61mel 'in the mind'), with lex - 'always' and lex - 'one who always (verbs)' (reflecting attitudes), s- - (s-) + R 'participle' (reflecting a state of mind usually), with reflexive inflections (-eet and -1émet)(showing the internal nature of emotions, etc.), and -met 'transitivizer (which implies indirect effect upon the object)'.

As mentioned in 12.0, nine verbs can appear in the structure V A-4.6 sq<sup>W</sup>£lewel-4.6 and morphosememically combine to yield attitude terms: '£y tel sq<sup>W</sup>£lewel 'I'm glad/grateful/thankful., I have good feelings.' ('£y 'be good'), x<sup>W</sup>ayiwel tel sq<sup>W</sup>£lewel 'I'm happy' (x<sup>W</sup>ayiwel 'be happy'), \$£ tel sq<sup>W</sup>£lewel 'I'm sorry' (\$£ 'to hurt'), 6ehft-cex<sup>W</sup> te sq<sup>W</sup>£lewel 'keep your mind on what you're doing!, concentrate!' (6ehft 'be careful of s-th'), h'épstex<sup>W</sup> te sq<sup>W</sup>£lewel 'be patient!' (h'épstex<sup>W</sup> 'cause s-th to be deep/under/low'), 'eyémstex<sup>W</sup> te sq<sup>W</sup>£lewel 'have courage!' ('eyémstex<sup>W</sup> 'make s-th strong'), hfk<sup>W</sup> tel sq<sup>W</sup>£lewel 'I'm conceited/proud' (hfk<sup>W</sup> 'be big'), me qelq£yl tel sq<sup>W</sup>£lewel 'I've lost

heart, I'm discouraged' (qelq&yl 'be destroyed, get destroyed'), c&cc to  $sq^w$ &lowels '(s)he's emotional (cries easily, happy or sad)' (c&cc 'be tender'), and y&q tol  $sq^w$ &lowel 'I change my mind' (y&q 'to change').

sq elevel itself, a cover term for this domain, means 'thoughts, feelings, emotions' and derives from sq elitak, speech' + -ewel 'on the insides (in the mind)'; this is a nice confirmation of the Whorf hypothesis. In all nine cases then, the sememic structure is 'My (your, his, etc.) thoughts/feelings (Verb).' or 'My thoughts/feelings are (verb).', which then converts to the glosses above morphosememically.

Other systematic morphosememic patterns include

?iy-&:lws 'brave' < 'good in the stomach' and qel-61wss
'cowardly, afraid to try' < 'bad in the stomach' (or
-&:lws - -61ws has alloseme ['in courage'] if one
allows that much semantic distance between allosemes);

(s-)x<sup>W</sup>-?&y-wel - lex<sup>W</sup>-?&y-wel 'generous, kind, goodhearted; easy-going, good-natured' < 'good-minded' and
'always good-minded', (x<sup>W</sup>-)q&1-wel 'stingy' < 'badminded', s-qel-wfl(-met) 'hate (s-o), hold a grudge
(against s-o)' < 'bad-minded' + ?, and lex<sup>W</sup>-q&1-wel
'cranky, crabby, dirty-minded' < 'always' + 'bad, dirty'
+ '-minded'; t'ek', -61m61 'homesick' < 'go home in the
mind'; s'ú·met 'lazy (by nature)' < 'á·met 'sitting';

statek; "fiwel 'dumbfounded, speechless, surprised, overwhelmed, overpowered' and tk; "fiwel·ax" 'excited me' < tak; "fly' or s-tatek; "flown up' + -iwel 'on the insides (in the mind)'; and h'elx"-i ws-em 'quiet down (of a person)' < 'stop one's body'.

13.2.17. Senses. This domain divides into sights (visual effects), touches (tactile feelings), sounds, tastes, and smells; each is compatible with certain body function verbs (see 13.1). Allosemic patterns have been outlined in 12.2.8 and a number of terms are listed there. As mentioned there, smells (11 terms so far), tastes (8 terms), and visual effects (20 terms) are not yet well-attested compared to sounds (76 terms) and touch (30 terms). Each area has cover terms (sháqwəm 'a smell', t'és 'a taste', sk' c'a sight', lápxwəm 'a sound, a noise', and gétyməls 'a feeling'), but most members are verbs, often with -əm 'middle voice' or 'intransitivizer', often participles or reduplications.

Smells also have a lexical suffix -£léqep (~ -eqep ~ -£leqem once) 'smell, in smell' in four examples; most roots are also attested in other words (?ɛy-£leqep 'good smell', q£leqep 'bad smell', qelq£yl-£l6qep 'turn bad in smell' < qelq£yl 'destroy(ed)', selcím£l6qep 'how does it smell?').

Tastes so far all have  $-R_1$ - plus -em, probably participles; a few have roots attested elsewhere (as  $\lambda$ '&\'\chi\'\chi\'\elsem' salty' <  $\lambda$ '\'\chi\'\elsem' salt' and p\'\elsem'\'\elsem' getting mouldy in taste or smell' < p\'\eldaq^\mathbb{W}\- as in p\'\elaq^\mathbb{W}\-\text{-Get} 'get mouldy'); no lexical suffix for taste has been found yet.

Sights or visual effects have a lexical suffix

(as seen in selcim-amexy 'what color is it?, what does
it look like?', '?iy-á·mexy - '?sy-á·mexy 'good-looking',
etc.) and a lexical prefix for most colors, c- (q.v.);
other terms are participial (s- + R, as in sk'elk'élx
'spotted', sxéyxep' - sxíxep' 'striped', sk'ík'esel
'dark-colored', lec'lác'tel 'many-colored'); some have
-em but are otherwise unanalyzable (p'élq'em 'sparkle,
flash, reflect, glitter, sparkle', k'é·wq'em 'bright',
c'é·lc'em 'dazzling', e'élxem 'transparent').

No lexical suffix for touch has been found yet;
many of the words of touch are participles (with R,
s-+R,R+-em) and many merely have -em 'middle
voice' or 'intransitivizer'; a number of the terms
derive from nominals or verbs of similar meanings
(qiqexem 'slippery' < qixem 'slip, slide', titexyem
'slimy' < s-tixyem' slime, (esp.) fish slime',
k'in'eq'el 'gummy, sticky' < k'iq'- as in k'iq'eces
'stick to the hand', e'ig'eqel 'muddy' < se'iqel '(wet)

mud', smelmálx<sup>W</sup> 'oily' < mélx<sup>W</sup>-t 'oil it, grease it', etc.).

Sounds include many terms with unanalyzable roots: many of these seem sound symbolic (k on 'to thud (dull, on ground)', h'&mq'Wels 'make a crunching or cracking noise (like ice breaking or chewing apples)', wet'sleq 'to splatter', wet'émeq' 'splash (once)', sé wc'em 'make a sharp rustling sound (leaves, paper, etc.)', c'tés 'ringing sound when s-th drops (spoon, heavy ashtray, etc.)', ?á·lxem 'a murmur', k' péx 'make a sudden thump when s-th falls to ground', t'éx"qem 'suction sound of s-th pulling out of mud', etc.); Over 20 of these words have -em 'middle' or -em 'intransitive', and some also have -els - -els 'intransitive' (q'Étxtes te leláGel '(s)he's rattling the dishes', q'etxéls 'to rattle (cans, etc. to shivaree or wake newlyweds)', q'étxem 'rattling (of dishes, metal pots, wagon on gravel), scraping sound (like food off dishes); some of the same sounds can be made with wood, rocks, shells, etc. instead of post-contact metal and pottery). Many of these words can have continuative or plural R kwamkwam 'thudding (of footsteps, horse on ground, etc.)', h'alk'eleq' 'continuous shooting or popping sounds' < \*\*Slaq\*W '(make) a pop, a shot'); some have a wa- prefix of unclear meaning (wek'éleq' 'a shot, explosion').

Two subgroups of sounds exist, one referring to the voice with -(a)qal somatic suffix: s0f.qal 'loud (of a voice), a loud voice' (θί ·- 'big'), st'ε ε ε qel steci'l 'sounds like (a person)' (ste? & 'similar, like'). xwiyaeegel 'sharp (in) voice, high pitch in voice or melody' ('iy-á@ 'sharp' < 'good edge'), 'ayémqel 'slow (in) voice' (perhaps -qel 'language' instead here) (?áyém 'slow'). x v? Eyeqel 'clear voice' (x e- 'become, go'. ?gy 'good'). ?iyésgel 'pleasant voice' (?iyés 'pleasant, fun'), t'i'wgel 'high-pitched (and/or) slow words or talking' (t'i'w 'slow beat'). A few words lack the suffix but fit in sememically: sx w?i?21 'soft voice' (< x "?1'? talk quietly'). h'epilestex" to sqolx we'le 'lower one's voice in pitch', etc. The roots with these -(0)qol words are descriptive Vaj's in all cases. selci melegel 'what does it sound like?' may belong in this subgroup or the next.

The second subgroup has terms with -£léqel 'sound' (which is homophonous with -£léqel 'smell, in smell'): st£léqep 'a distant sound', seset£léqep 'keep on hearing a distant sound', ?eh£léqep 'a faint sound carried by the air, sound within earshot or hearing distance' (< ?eh- as in ?eh-á·t 'wrap s-th up'), ex<sup>W</sup>£léqep 'a steady sound that's been stopped for a while' (< e6x<sup>W</sup> 'disappear'), og<sup>W</sup>£léqep 'a loud sound' (weláy e6x<sup>W</sup>eleqep

'sound getting softer', mi xwo cqwelleqp 'sound getting louder'), 'iya06leqpp 'sharp sound', xwomxwomsleqpp 'talks fast (probably sic for 'fast sounds')'; the roots here too seem to be descriptive adjectivals.

13.2.18. Other Domains. The remaining domains mentioned at the beginning of this chapter are somewhat grammatical and somewhat syntactic, but grammatical and syntactic categories are morphosememic categories too. As such they are stored with the other semological information on each term in the speaker's brain. After all, the fact that a word is an adverbial (can modify a verb for example) or a personal pronoun (can be subject or object of a verb for example) or a reciprocal has semantic (and morphosememic) effects as well as grammatical ones, especially in sememic co-occurrence restrictions and in the morphosememics of phrase expansion (see 13.3).

Most of the data has already been given in other parts of the grammar, and some morphosememic information will also be found in those sections. Some of these domains and references include: 1. Adverbials (directions and qualifiers): 6.2.4, 7.3, 7.4, 9.4;

2. Demonstratives and auxiliaries: 9.1, 9.2, 9.3, 9.4, 6.2.7, 6.2.8; 3. Personal Pronouns: Chapter 4, 9.5, 9.6; 4. Transitivizers, intransitivizers and benefactive:

6.1.2, 6.1.3; 5. Mood (interrogative, subjunctive, imperative, declarative) and interjections: 6.1.7, 6.2.5, 7.1; 6.Voice (active; passive; middle, reflexive; reciprocal): 6.1.2.2, 6.1.3, 6.1.6 (also Chapter 4, especially 4.4, 4.5, 4.8, 4.9, 4.10); 7. Continuative and plural: 2.3, 2.5, 6.1.9; 8. Numerals: 5.2.2, Chapter 10; 9. Prepositionals: 6.2.3; 10. Conjunctive particles (and disjunctives, etc.): 7.2.

Besides having inflectional, grammatical, and syntactic features unifying them, these domains also have (other) morphosememic features of unity as well. Adverbials include Vadv, Padv, Pmod, and Dadv's; the terms cover the morphosememic areas of intensity of action or state (Vadv's #1, 2, 3, 37, 52 in 6.2.4), sequence (#4, 5), degree of action or state (#17, 18, 37, 39, 41, 51), direction and location (#6 through 16, 19, 50; all Dadv's), iteration (#20, 21), time (#22 through 36, 38, 42, 48, 49), accompaniment (#44, 45), quality of action or state (#46, 47), probability (#40, 43, several Pmod's), obligation to perform action or be in state (remaining Fmod's), and perhaps negatives (#53 through 56).

Demonstratives and auxiliaries are united into a domain because they work together to express nearness of state and destination of action towards or away from

subject; they also provide the carriers for a number of suffixes for verb or nominal.

Personal pronouns express the person, usually the number and often the gender of each subject and/or object of each verb phrase; they clarify these features when nominals are also present as subject and/or object; they also express person and usually number of the possessor of a nominal, and are capable of expressing emphasis of person, number, and gender of possessor, subject, or object.

Transitivizers, intransitivizers and the benefactive may be categories of a single domain because they specify the functions and intents of subjects and objects of each verb phrase. Thus these affixes spell out whether the subject caused the object to do something, did something to the object on purpose, did something for the object, did something accidentally to the object, did something purposely but just for the activity and not for an object in particular, etc. In other words, these affixes spell out the functions and intents of the pronouns required for every werb phrase.

Mood seems to be a domain indicating immediate purposes or attitudes of the speaker in making an utterance: asking a question (interrogative), admitting uncertainty or dependence on time of action or state (subjunctive and some interjections), giving a command (imperative), making a statement (declarative), or expressing surprise or affirmation (interjections). In these morphosememic functions all varieties of interrogative for example (Vq, -e inflection, ?6th tag-question, etc.) perform the function with similar effect; the only differences for interrogative would be whether the speaker expects a yes or no answer, an explanation, etc. Mood effects the entire sentence. An interesting morphosememic pattern is that interrogative verbs can be put into the subjunctive mood, but this annihilates both moods and produces verbs translated as relative clauses (as mentioned in earlier chapters).

The domain of voice is breader morphosememically than inflectionally. It specifies the direction of action between subject and object of a verb: the subject directs the action or experiences the state (active), the object is directed (acted upon) by a subject which may be unspecified (passive), the subject directs the action towards himself (middle, and reflexive), the subject and the object direct action at each other (reciprocal). The distinction between 'middle voice' and 'reflexive' is very delicate and is explored in 6.1.6 especially.

Continuative and plural are joined together in a morphosememic relationship for several reasons: ablaut and reduplication are both used to form plural for nominals and continuative for verbs; reduplication is also used to form plural subject, plural object, and plural action inflections of some verbs; continuative and plural are sememically similar in that they both enlarge the quantity of what they apply to; both A and R are complex processes with many phonological variations — these are easier to treat and keep in mind with a linking of continuative and plural.

Numerals of course form a semantic domain because they alone count things exactly, and because certain affixes and allosemes occur only with numerals.

Frepositionals also form a domain with some morphosememic coherence: they include words of direction and location in relation to nominals (yew& lmels 'before' and sta?& 'similar to, like' are the only exceptions to this morphosememic categorization); prepositionals are also Vi's which require nominal objects (as discussed in the syntax) and which require special forms of independent pronoun (as discussed in 4.11).

Finally, conjunctive particles and the other members of Pconj (some are disjunctive ('or'), etc.) form a semantic domain, not only because of how they conjoin

syntactically, but also because they are the only terms which morphosememically join nominals, independent pronouns, numerals, verbs, phrases or sentences as 'co-ordinate' elements (other conjunctions subordinate what they conjoin).

13.3. Morphosememics of Phrases, Sentences, and Speech Events. This last section in Chapter 13 is more of a tentative nature than what has preceded. All the labels for morphosememic classes within domains would seem to be relevant in putting words into phrases and phrases into sentences. They can for example be used in determining semantic compatibility, as can parenthetical elements within glosses (\*, £mq, Wels 'make a crunching or cracking sound (of ice breaking or eating apples)'). An example of using morphosememic classes in this way would be the observation that terms for basketry techniques would compatibly appear within the same phrase, sentence, or speech event with types of baskets, basket parts, or tools used for basketry. It follows in many domains (perhaps most) that one morphosememic class is compatible with the others in its domain, and that classes of functions or techniques (mostly verbs) are generally compatible within a verb phrase with classes of types or parts (mostly nominals) from the same domain.

13.3.1. Nominal Phrases (NP's) and Their Expansions. With unexpanded NP's of the shape A V (using abbreviations from syntax chapter throughout 13.3), A if marked for human or sex gender becomes 'someone (male/female) that': if A is not marked for human or sex gender it becomes 'something that'; with the other unexpanded NP's containing an article (A N, A D, A Num), the semantic elements of the A set act as covert modifiers of the N, D, or Num; ['indefinite'] and ['generic'] components are overtly translated as 'a' and 'some' or by omitting the article with ['generic'] and putting the English noun in generic plural. Alternatively, the gender component may be transferred directly to the N. D. or Num if these are regarded as having no intrinsic gender rather than having allosemes of each gender. It should be kept in mind that the N, D, or Num is the item semologically modified in unexpanded NP's, and that the A is the semological modifier.

Only A N and A V are attested with modifiers, and A V expansion is to be treated as VP expansion which is then nominalized. A N expansion with modifiers merely adds more modifiers modifying the N in most cases. But with A Vadv Vaj N, the Vadv modifies the Vaj which in turn modifies the N. With A N-4.62 A N the second A modifies the N following and both in turn

modify the first A N (as already discussed in the syntax). With A N-4.6<sub>3</sub> A-4.6 N-4.6 similarly, the second A and its 4.6 modify the second N, and the combination in turn modifies the first A N.

When NP's are expanded by apposition, the second nominal is usually more specific semantically than the first, and the more specific term seems to semologically replace the less specific one as the thing modified. When 4.3 is involved in the apposition and is first or second person (thus identified with speaker or hearer) it becomes the more specific and seems to be the element modified.

When NP's are expanded by conjoining they are conjoined as equals and function jointly.

13.3.2. Verb Phrases (VP's) and Their Expansions. The morphosememic function of subject and object are determined from syntactic placement of NP's, the transitivity (or lack of it) of the verb, the type of verb (for example, Vprep's require objects), and correlation of person and number of personal pronouns with person and number of NP's. When an NP is determined to be the subject (5) or object (0) of a verb it is marked as such semantically (semologically). When an NP is present and is matched up with a personal pronoun suffix as S or O, the NP morphosememically re-

places the pronoun.

When the VP is expanded with internal modifiers, some morphosememically modify the main verb directly, and some modify it indirectly by modifying a modifier of the main verb. The main verb can be identified by syntactic placement in most cases; when it is not so identifiable and is not identifiable from inflection the VP is ambiguous.

The following modify the verb directly: Vaux's ls and me " mi, Pmod, and the Vadv physically closest to the main verb. When there are two Vady's preceding the main verb, the first or outer one modifies the second or inner one; where three Vady's precede the main verb there are too few examples to be certain. but it appears that the first modifies the second which modifies the third which modifies the main verb. It may be that such chains of modification account for how words or inflections can modify whole phrases; such words modify directly the word which follows and indirectly all the remaining modifiers and the main verb. It seems that tense, interrogative, and negative elements which precede other internal modifiers work this way too: the first element modifies the next modifier which modifies the next, etc., till the main verb is reached. Thus it is difficult to look at a sentence

containing Vneg-4.4-Tense (?f, lf)-4.9b Vadv Vadv M.V. and tell whether the negative modifies (negates) the first Vadv, the second Vadv, the main verb only, or everything. Morphosememically it is a chain of modification.

13.3.3. Sentences and Their Expansions. VP's can be sentences by themselves. As such they can be expanded with appositives and non-conjoined VP's (prepositional phrases and subjunctive phrases). N's added in apposition are vocative and are so marked norphosememically because they merely direct the conversation. VP's added in apposition are parenthetical in flavor and probably modify the main verb, but there are too few examples to be sure. Prepositional phrases and subjunctive phrases appear to modify the main verb in the same way as do Vadv's (of location and of time).

Sentences can also be expanded by subordinate conjunction of VP's (relative clauses and regular subordinate clauses). Relative clauses are VP's preceded by an A and morphosememically organized like the NP < A V. Thus the A marked for 'human' or sex gender becomes 'someone (male/female) that' and if not so marked it becomes 'something that'; as mentioned in the syntax, relative clauses can serve as S or O in the main VF; either the S or the O of the VP in the rela-

tive clause so serves actually, and the remainder of its VP modifies it. In other words, either the S or the O (or -S or -O) can be relativized with the rest of its VP modifying it adjectivally ('someone that I saw' or 'someone who saw me'); then the item relativized can serve as S or C of the main VP in the sentence ('I liked someone that I saw.' or 'I liked someone who saw me.'). A regular subordinate clause modifies the main verb but undergoes many translational shifts before a smooth English translation is obtained. There may be some morphosememic subtleties going on which there has not been time to study yet.

Sentences can also be expanded by co-ordinate conjunction of independent VP's. The VP so added does not combine morphosememically with the preceding sentence or VP except to the extent that it is almost always indicated as an action subsequent to that in the preceding VP. This indication is done through the co-ordinating conjunction in most cases.

13.3.4. The Speech Event. Except for formal speeches, the morphosememic structure of each speech event is highly individualistic. It depends much on the style of the speaker, what the speaker and hearer know together about the topic (or know each other knows), how informative the speaker wishes to be, how open the

speaker is to questions from the hearer, etc. As mentioned in the last chapter ambiguities are often not resolved even at the end of the speech event. The stories and narratives obtained so far feature many sentences begun with co-ordinating conjunctions, sometimes continuing for a page or more. These indicate subsequent events and serve to carry on the narrative. They also serve as hesitation forms, especially the longer conjunctions like qeh'as'ésu. In the future as more stories and some conversations are obtained, transcribed, and studied, the morphosememic structure of speech events can be illuminated.

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