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Maintenance and Dissemination of a Water Transfer Data Base for 12 Western States, 1987-2008

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Project Title: Maintenance and Dissemination of a Water Transfer Data Base for 12 Western States, 1987-2008

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UC Water Resources Center Technical Completion Report Project No. WR-1023 December 2009

Abstract

The project involves collaborate work between Gary Libecap and a graduate student, Zachary Donohew, to compile and maintain a comprehensive, publicly-available data set on water transfers and water markets for researchers and policy analysts. The data are drawn from the *Water Strategist* for 12 western states (Washington, Oregon, California, Arizona, Nevada, Utah, Idaho, Montana, Wyoming, Colorado, New Mexico and Texas) from January 1987-December 2008. There are 4,175 observations of water transfers that include amount of water, contract type (short-term lease, long-term lease, and sale), parties involved, origination use, destination use, and price (2,728 observations). The methodology is described and data categories are presented in a Word document along with an excel file of the trades placed on the Bren School Website and linked to the Bren website at http://www.bren.ucsb.edu/news/water transfers.htm and the WRRC website at http://www.bren.ucsb.edu/wRCA/WRC/research_sp.html.

Introduction and Problem Statement

With the West's limited freshwater supplies experiencing increasing pressure from agricultural, environmental, recreational, and urban demands, as well as the effects of climate change on precipitation patterns, effective management of water is becoming a more critical issue. Private leases and sales of water as part of water markets provide one option for water management. The Water Transfer Data Base, funded by the National Science Foundation and the California Water Resources Research Center and presented by the Bren School, is a comprehensive accounting of water trading between 1987 and 2008 in the 12 Western States.

Objectives

The objective of the project was to provide a comprehensive accounting of water trading between 1987 and 2008 in 12 Western States drawing on available data as presented in the *Water Strategist*. As such, it is a valuable tool for researchers and others interested in the extent and pattern of voluntary water exchanges in the West. The data include trades involving agriculture, urban, recreational, and environmental uses; the number and amounts of water involved;

and the prices paid. Presenting these data as a public service is an important part of the extension mission of the University of California, as well as that of the Water Policy program at the Bren School.

Procedure

Water Strategist Data Collection and Presentation Methodology.

We prepare and present a dataset of water right transactions in the western United States. The data are drawn from water transactions reported in the monthly trade journals, the *Water Strategist* and its predecessor the *Water Intelligence Monthly* from 1987 through December 2008. The *Water Strategist* publishes a section called "Transactions" that lists, by state, water transfers. From these publications, all or a subset of the following are collected: the year of a water transfer; the acquirer of the water; the supplier; the amount of water transferred; the proposed use of the water; the price of the trade; and the terms of the contract.

The dataset we prepare contains rows (observations) that represent water transactions. It is important to note that each observation does not represent necessarily a *single* water transaction. Instead, observations may represent a *bundle* of transactions. Often the *Water Strategist* reports transactions that are a summation of two or more water transactions made by a single entity, such as a buyer or seller, or in a single location, such as a state or water basin. We often would have to determine if single transactions could be identified and presented separately. Transactions not reported in the *Water Strategist* are not included in this dataset. In total, 4,175 water transactions are recorded. We now describe each variable presented in the dataset.

States

The *Water Strategist* published water market transactions for the following states: Arizona, California, Colorado, Idaho, Kansas, Montana, Nebraska, New Mexico, Nevada, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming. However, only a handful of water transfers occurred in Kansas, Nebraska, North Dakota, Oklahoma, and South Dakota. Consequently, the dataset is restricted to the 12 most western states where the bulk of transfers took place: Arizona, California, Colorado, Idaho, Montana, New Mexico, Nevada, Oregon, Texas, Utah, Washington, and Wyoming.

Classifications

From the *Water Strategist*'s transaction descriptions, variables were created to describe the transferor's use of a water right is used and also the transferee's new use water of the water right. For this purpose, three categories of water use were created: agricultural, urban (municipal and industrial), and environmental. These categories provide for nine possible classifications of water transfers: agricultural-to-agricultural, agricultural-to-urban, agricultural-to-environmental, urban-to-agricultural, urban-to-urban, urban-to-environmental, environmental-to-agricultural, environmental-to-urban, and environmental-to-environmental. Each transfer was assigned to one, and only one, of these classifications. If the water use before or after a transaction was not explicitly stated in the *Water Strategist*, the category was inferred from other description.

Agricultural

A water use is classified as agricultural if the name of the lessor, lessee, seller, or buyer is an irrigator, an irrigation district, a water district, a farmer, a rancher, a canal company, a ditch company or an individual. Similarly, a water use is designated as agricultural if the description of the transaction stated that the water was provided by land fallowing, or if the description discussed widespread farming in the district from which the water was supplied.

Environmental

A water use is classified as environmental if the lessor, lessee, buyer or seller is a state department of fish and wildlife or a nature conservancy. The U.S. Bureau of Reclamation, generally an agricultural water supplier, was classified as an environmental user when it acted to improve or maintain instream flows to improve aquatic habitat or water quality.

Urban

Water transferred to/from cities, townships, municipal water districts, developers, and companies is classified as urban uses. As well as water used in golf course irrigation, landscape irrigation and mining.

Unknown

Water transfers with unidentifiable origin or destination uses are classified as "Unknown."

Combination

Some water transaction involved multiple original water uses or multiple destination uses. These transfers are classified as "Combinations."

Contractual Form

Another set of variables created in this dataset specify the contractual form of each transfer, which take the forms of sales, leases, and exchanges.

Sales

Sales are defined as permanent transfers of water rights from one party to another. Water rights are typically defined on an annual basis. Therefore, an entity holds the right to use a specified amount of water each year for perpetuity.

Leases

Leases differ from sales in that they do not involve the transfer of a water right and hence they are not permanent transfers of rights. A lease involves the transfer of a specified amount of water annually for a certain time period. Thus, water rights are not exchanged, only the water associated with the right. In rare instances, the *Water Strategist* called some transactions sales that were not permanent water right transfers. Instead, they were one-time transfers, which are equivalent to leases and are therefore categorized as leases.

Exchanges

A small percentage of transfers cannot be classified as sales or leases. Most of these types of transfers are called "exchanges" by the *Water Strategist*. An example of the most common type of exchange is a developer who gives a water right to a city in exchange for the city allowing the developer to connect a development to city utilities.

Water Quantities

This dataset provides two variables to capture the quantity of water transferred in units of acre-feet: annual flow and committed.

Annual Flow

The annual flow amount is the quantity of water that is transferred in the first year of a contract and only in the first year. This is the typical way to quantify a water transaction, by the annual acre-feet assigned to the water right.

Committed

The committed variable captures the fact that more water is transferred than just in the first year of a lease or sale. The committed variable discounts the flow of water over time into the year the water was first transferred. A 5% discount rate was chosen.

For permanent transfers of water rights, the committed amount of water is determined the same way as finding the present value of a perpetual bond—by dividing the annual flow of water by the discount rate. For leases, the committed amount of water is found the same way as finding the present value of an ordinary annuity. That is to say, the committed amount of water is equal to the expected future annual amounts of water that have been discounted at 5% to a single equivalent value at the year the transaction was made.

The purpose of the committed variable is to capture the fact that long-term leases and sales transfer substantially more water than one-year leases transfer because sales involve the transfer of the right to a certain amount of water annually for perpetuity.

Prices

Since this is a time-series dataset from 1987- December 2008, it is necessary to convert all prices into real dollars. Therefore, along with the total price paid for water transfers, this dataset also contains variables for prices that are converted into 1987 dollars by using the Consumer Price Index—All Urban Consumers Average from the Bureau of Labor Statistics. This conversion takes into account inflation and makes cross-year comparison between prices possible.

Water Transfer Level Dataset Variables

Year

A numeric variable equal to the year in which a transaction occurred.

State

A string variable equal to the western state where the transaction occurred.

Buyer

Indicates the name or type of water right transferee.

Sellers

Indicates the name or type of water right transferor.

Water Strategist Issue

Indicates the issue of the Water Strategist, by month and year, that a transaction was recorded.

Sale

A dummy variable equal to 1 if the transaction is the permanent transfer of a water right(s) and 0 otherwise.

Lease

A dummy variable equal to 1 if a transaction is for the transfer of a specified amount of water annually for a certain amount of time and 0 otherwise.

Exchange

A dummy variable equal to 1 if a permanent transaction was made and there was no payment and 0 otherwise.

Minimum Annual Acre-Feet

A continuous variable for the minimum amount of water annually transferred in acre-feet.

Average Annual Acre-Feet

A continuous variable for the average amount of water annually transferred in acre-feet.

Maximum Annual Acre-Feet

A continuous variable for the maximum amount of water annually transferred in acre-feet.

Committed Minimum Acre-Feet

A continuous variable for the minimum cumulative amount of water transferred and discounted over time at a rate of 5%.

Committed Average Acre-Feet

A continuous variable for the minimum cumulative amount of water transferred and discounted over time at a rate of 5%.

Committed Maximum Acre-Feet

A continuous variable for the minimum cumulative amount of water transferred and discounted over time at a rate of 5%.

Total Price

A continuous variable of the total dollar amount of a transaction.

Inflation Adjusted Total Price

A continuous variable of the total price adjusted to 1987 dollars.

Inflation Adjusted Price per Acre-Foot

A continuous variable of the inflation adjusted total price divided by the annual flow amount of water transferred.

Inflation Adjusted Price per Committed Acre-Foot

A continuous variable of the inflation adjusted total price divided by the committed amount of water transferred.

Ag-to-Ag

A dummy variable equal to 1 if the transaction is from an agricultural user to an agricultural user and 0 otherwise.

Ag-to-Urban

A dummy variable equal to 1 if the transaction is from an agricultural user to an urban user and 0 otherwise.

Ag-to-Enviro

A dummy variable equal to 1 if the transaction is from an agricultural user to an environmental user and 0 otherwise.

Urban-to-Ag

A dummy variable equal to 1 if the transaction is from an urban user to an agricultural user and 0 otherwise.

Urban-to-Urban

A dummy variable equal to 1 if the transaction is from an urban user to an urban user and 0 otherwise.

Urban-to-Enviro

A dummy variable equal to 1 if the transaction is from an urban user to an environmental user and 0 otherwise.

Enviro-to-Ag

A dummy variable equal to 1 if the transaction is from an environmental user to an agricultural user and 0 otherwise.

Enviro-to-Urban

A dummy variable equal to 1 if the transaction is from an environmental user to an urban user and 0 otherwise.

Enviro-to-Enviro

A dummy variable equal to 1 if the transaction is from an environmental user to an environmental user and 0 otherwise.

Combination

A dummy variable equal to 1 if the transaction involved a combination of origins or a combination of destinations and 0 otherwise.

Unknown

A dummy variable equal to 1 if either the origin or destination use is unknown and 0 otherwise.

Results

The grant has made possible the presentation of a cross-state data set on water transfers available to all researchers.

Conclusions

Because this was a dataset preparation grant, there are no specific conclusions, except for those drawn by research using the data. The data reveal, however, important differences in the pattern, nature, and size of trades across the western states.

Publications

- Donohew, Zachary, "Property Rights and Western U.S. Water Markets," *Australian Journal of Agricultural and Resource Economics*, 2009, 53: 85-103.
- Brewer, Jedidiah, and Gary D. Libecap, "Property Rights and the Public Trust Doctrine in Environmental Protection and Natural Resource Conservation," *Australian Journal of Agricultural and Resource Economics*, 2009, 53: 1-17.
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- Brewer, Jedidiah, Robert Glennon, Alan Ker and Gary D. Libecap "Water Markets in the West: Prices, Trading and Contractual Forms," *Economic Inquiry* 2008, 46(2): 91-112.
- Brewer, Jedidiah Brewer, Michael Fleishman, Robert Glennon, Alan Ker, and Gary D. Libecap. "Law and the New Institutional Economics: Water Markets and Legal Change in California, 1987-2005," *Washington University Journal of Law and Policy* 2008, 26 (August).
- Brewer, Jedidiah, Robert Glennon, Alan Ker and Gary D. Libecap "Transferring Water in the American West: 1987-2005," *Michigan Journal of Law Reform* 2007, 40(4): 1021-53.

Account Title : ESMS/UC CE Fund Title : GEN FD-WAT Sub Title : GENERAL AS	ER RESOURCES CENTER				PI(S): Loc/	Account/Fund/Sub : Start/End Date : Closed :	8-597816-19950-2 07/01/2007 - 06/30	/2009
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GENERAL ASSISTANCE	2	0.00	0.00)	0.00	0.00	*****	0.0
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GENERAL ASSISTANCE	2	0.00		0.00	*****	0.0
EMPLOYEE BENEFITS	6	0.00		0.00	*****	0.0
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GENERAL ASSISTANCE	2	0.00	0.00	0.00	0.00	*****	0.0
EMPLOYEE BENEFITS	6	0.00	0.00	0.00	0.00	*****	0.0
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GENERAL ASSISTANCE	2	0.00	0.00	0.00		*****	0.0
EMPLOYEE BENEFITS	6	0.00	0.00	0.00		*****	0.0
SUPPLIES & EXPENSE	3	1,897.38-	0.00	0.00	1,897.38-	0.0%	0.0
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GENERAL ASSISTANCE	2	0.00	0.00	0.00	0.00	*****	0.0
EMPLOYEE BENEFITS	6	0.00	0.00	0.00	0.00	*****	0.0
SUPPLIES & EXPENSE	3	1,897.38-	0.00		1,897.38-	0.0%	0.0
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SUPPLIES & EXPENSE	3	1,897.38-	0.00	0.00 1,897.38-	0.0%	0.0
Total		1,897.38-	0.00	0.00 1,897.38-	0.0%	
Account Title : ESMS/UC CENTER Fund Title : GEN FD-WATER F Sub Title : SUPPLIES & EXF Agency :	RESOURCES CENTER		PI(S) Award Number	Start/End Date Close FD	b: 8-597816-19950-3 ee: 07/01/2007 - 06/30 ed: DP:	0/2009
Obj Cost Projct Cost Trans Desc Ctr Type Date (28	ription positions)	Ref no Req No AP Ref No	Vcher TE Appropr No	riation Expenditure	Encumberance	OD
No transactions for this ledger	date					
			Cumulative	1,897.38-	0.00	0.00

Canarated: 07/07/09 08:21

Balance

Account Title : ESMS/UC CENTER Fund Title : GEN FD-WATER F Sub Title : GENERAL ASSIST Agency :	ESOURCES CENTER ANCE				d Number :	Start/End			0/2009
Obj Ctr Projct Cost Trans Desc Type Date (28	ription positions) 	Ref no Req No	AP Ref No	Vcher TE No	Appropriation	Expend	iture	Encumberance	OD
No transactions for this ledger	date								
				Cumulative Balance		0.00	*** comm	0.00 itted	0.00
Account Title : ESMS/UC CENTER Fund Title : GEN FD-WATER F Sub Title : EMPLOYEE BENER Agency :	ESOURCES CENTER				l Number :	Start/End			0/2009
Obj Cost Projct Cost Trans Desc Ctr Projct Type Date (28	ription positions)	Ref no Req No	AP Ref No	Vcher No	Appropriation	Expend	iture	Encumberance	OD
No transactions for this ledger									
				Cumulative Balance		0.00	*** comm.	0.00 itted	0.00
Summary by Sub Account for Acco	unt Fund : 8-597	816-19950						Ledger Date	: 200902
Sub Account Title	Sub	Appropriation	Expenditure	En	cumbrance	Balance	OD	Committed	IDC Rate
GENERAL ASSISTANCE	2	0.00		0.00	0.00	0.		******	0.0
EMPLOYEE BENEFITS SUPPLIES & EXPENSE	6 3	0.00 1,897.38-		0.00	0.00	0. 1,897.		0.0%	0.0
Total	3	1,897.38-		0.00	0.00	1,897.		0.0%	0.0
Account Title : ESMS/UC CENTER Fund Title : GEN FD-WATER F Sub Title : SUPPLIES & EXE Agency :	ESOURCES CENTER ENSE				d Number :	Start/End			0/2009
Obj Ctr Projct Cost Trans Desc Type Date (28		Ref no Req No	AP Ref No	Vcher No	Appropriation	Expend	iture	Encumberance	OI
No transactions for this ledger	date								
				Cumulative	1,8	97.38-		0.00	0.00

Balance

. . . .

1,897.38-

0.00% committed

Account Title : ESMS/UC CE Fund Title : GEN FD-WAT Sub Title : GENERAL AS Agency :	TER RESOURCES CENTER SSISTANCE			PI(S) : Award Number :	Loc/Account/Fund/Sub : Start/End Date : Closed : FDP :	: 07/01/2007 - 06/3 :	
Obj Cost Projct Type Date	Description (28 positions)	Ref no Req	No AP Ref No	Vcher TE Appropria	tion Expenditure	Encumberance	e OD
No transactions for this led	iger date						
				Cumulative Balance	0.00 **** com	0.00 mmitted	0.00
Account Title : ESMS/UC CE Fund Title : GEN FD-WAT Sub Title : EMPLOYEE B Agency :	ER RESOURCES CENTER			PI(S) : Award Number :	Loc/Account/Fund/Sub: Start/End Date: Closed: FDP:	: 07/01/2007 - 06/3 :	
Obj Cost Projet Type Date	Description (28 positions)	Ref no Req	No AP Ref No	Vcher TE Appropria		• Encumberance	e OD
No transactions for this led	lger date						
				Cumulative Balance	0.00 **** com	0.00 mmitted	0.00
Object Code Summary for Suk Start	D Account : 8-59781 t/End Date : 07/01/2	007 - 06/30/2009			Ledger Date : 200903 Overhead : 0.0% bas	•	,
Obj Description		Overhead Rate	Current Month Expenditure	Year-to-Date Expenditure			ulative erhead
7250 FOOD-BUSINESS MEET/CON		cals :	48.94 48.94	48.94 48.94	48.94 48.94	0.00	0.00
Summary by Sub Account for	Account Fund: 8-597	816-19950				Ledger Date	: 200903
Sub Account Title	Sub	Appropriation	Expenditure	Encumbrance	Balance OD	Committed	IDC Rate
GENERAL ASSISTANCE EMPLOYEE BENEFITS	2	0.00	0.00	0.00		* * * * * * * * * * * * * *	0.0
SUPPLIES & EXPENSE	3	1,897.38-	48.94	0.00	****	2.6%	0.0
Total		1,897.38-	48.94	0.00	1,848.44-	2.6%	
Account Title : ESMS/UC CE Fund Title : GEN FD-WAT Sub Title : SUPPLIES & Agency :	TER RESOURCES CENTER EXPENSE			PI(S): Award Number:	Loc/Account/Fund/Sub : Start/End Date : Closed : FDP :	: 07/01/2007 - 06/3 :	
Obj Ctr Projct Cost Trans Type Date	Description (28 positions)	Ref no Req	No AP Ref No	Vcher No TE Appropria	tion Expenditure	Encumberance	e OD
7250 LGW01 MIS 022609	GARY DON LIB_626122	BEACHSIDE EN	200903WS3110010	51388 41		48.94	
				rent Month Cumulative Balance	0.00 1,897.38- 2.58% com	48.94 48.94 numitted 1,	0.00 0.00 ,848.44-

Page 1 of 1

Account Title : ESMS/UC CENTER FOR W. Fund Title : GEN FD-WATER RESOURC Sub Title : GENERAL ASSISTANCE				PI(S) : Award Number :		nd/Sub: 8-597 nd Date: 07/01 Closed: FDP:)/2009
Agency: Cost Cost Trans Description Ctr Type Date (28 posit:	on ions)	Ref no Rec	No AP Ref No	Vcher TE Appropr	iation Expe		Encumberance	O
No transactions for this ledger date								
				Cumulative Balance	0.00	0.00 ***** committed		0.00
Account Title : ESMS/UC CENTER FOR W. Fund Title : GEN FD-WATER RESOURCE Sub Title : EMPLOYEE BENEFITS Agency :	ES CENTER			PI(S) : Award Number :		nd/Sub: 8-597 nd Date: 07/01 Closed: FDP:)/2009
Obj Ctr Projct Type Date (28 posit:	on ions)	Ref no Rec	NoAP Ref No	Vcher TE Appropr	iation Expe	nditure	Encumberance	0
No transactions for this ledger date								
				Cumulative Balance	0.00	0.00 ***** committed		0.00
Object Code Summary for Sub Account : Start/End Date	8-597816-19950-3 : 07/01/2007 - 06	/30/2009				0.0% base D (NC		
Obj Description		Overhead Rate	Current Month Expenditure	Year-to-Date Expenditure	Cumulative Expenditure	Current Mont Overhead		lative rhead
6210 REPRINTS 7250 FOOD-BUSINESS MEET/CONFERENCES		1000	176.05	176.05 48.94	176.05 48.94			
8000 SUPPLIES & MATERIALS - OTHER	Totals :		1,315.05 1,491.10	1,315.05 1,540.04	1,315.05 1,540.04		0.00	0.00
Object Code Summary for Sub Account : Start/End Date	8-597816-19950-: 07/01/2007 - 06				Ledger Date : Overhead :	200904 0.0% base D (NC	OVERHEAD CH	ARGED)
Obj Description		Overhead Rate	Current Month Expenditure	Year-to-Date Expenditure	Cumulative Expenditure	Current Mont Overhead		lative rhead
2000 TRAVEL	Totals :	nace	181.90 181.90	181.90 181.90	181.90 181.90		0.00	0.00
Summary by Sub Account for Account Fu	nd • 9_507016_1005	∩					Ledger Date :	200004
Sub Account Title		priation	Expenditure	Encumbrance	e Balance		mitted	IDC
GENERAL ASSISTANCE	2	0.00	Expenditure 0.		0.00 0.		*****	Rate 0.0
EMPLOYEE BENEFITS	6	0.00		00	0.00 0.		*****	0.0
SUPPLIES & EXPENSE	3	1,897.38-	1,540.	04	0.00 357.	34-	81.2%	0.0
SPECIAL ITEMS Total	5	0.00 1,897.38-	181. 1,721.		0.00 181. 0.00 175.	90 OD 44-	****** 90.8%	0.0
Account Title : ESMS/UC CENTER FOR W. Fund Title : GEN FD-WATER RESOURC. Sub Title : SUPPLIES & EXPENSE Agency :					Loc/Account/Fu)/2009
Cost Cost Trans Description Ctr Projct Type Date (28 posit:		Ref no Rec	q NoAP Ref No	Vcher No TE Appropr	iation Expe	nditure	Encumberance	С

6210	LGW01 MIS	033109	CHICAGO DISTRIBUTION 5692422	014215	200904LQU1	60037 04203 42		176.0	5
8000		042109	AMZ*AMAZON PAYMENTS	014215	-	10081 46		1,315.0	5
						Current Month	0.00	1,491.1	0.00
						Cumulative	1,897.38	1,540.0	4 0.00
						Balance		81.17% committe	ed 357.34-
			INTER FOR WATER RES					unt/Fund/Sub : 8-5	97816-19950-5 01/2007 - 06/30/2009
			TER RESOURCES CENTER				Sta	,	01/2007 = 06/30/2009
	Title : S	PECIAL I	TEMP				. 1	Closed :	
	Agency :						Number:	FDP :	
Obj Ctr	st Projct Cos Typ	t Trans e Date	Description (28 positions)	Ref no Req	No AP Ref No	Vcher No	Appropriation	Expenditure	Encumberance OD
2000	LGD01	042209	GARY DON LIBECAP	152604	-	10014 53		181.9	0
						Current Month	0.00	181.9	0.00
						Cumulative	0.00	181.9	0.00
						Balance		**** committe	ed 181.90

Dama 2 of 2

Account Title : ESMS/UC CENTER FOR Fund Title : GEN FD-WATER RESOUR Sub Title : GENERAL ASSISTANCE				PI(S) :	Start/End	d/Sub : 8-597816 d Date : 07/01/20 Closed :	
				Award Number :		FDP :	
Agency: Cost Projct Cost Trans Descript Ctr Type Date (28 posi		Ref no R	eq No AP Ref No	Vcher TE Appropr No	riation Expen	diture Enc	cumberance C
No transactions for this ledger date							
				Cumulative Balance	0.00	0.00 **** committed	0.00
Account Title : ESMS/UC CENTER FOR Fund Title : GEN FD-WATER RESOUR Sub Title : EMPLOYEE BENEFITS Agency :				PI(S) : Award Number :	Start/End	d/Sub: 8-597816 d Date: 07/01/20 Closed: FDP:	
Cost Projct Cost Trans Descript Ctr Type Date (28 posi	ion tions)	Ref no R	eq No AP Ref No	Vcher No TE Appropr	riation Expen	diture Enc	cumberance C
No transactions for this ledger date							
				Cumulative	0.00	0.00	0.00
				Balance	*	**** committed	0.00
Object Code Summary for Sub Account Start/End Date	: 8-597816-19950- : 07/01/2007 - 06	/30/2009				0.0% base D (NO OV	
Obj Description		Overhead Rate	Current Month Expenditure	Year-to-Date Expenditure	Cumulative Expenditure	Current Month Overhead	Cumulative Overhead
4400 FIRST CLASS MAIL		1.000	0.61	0.61	0.61		0.0211044
6210 REPRINTS				176.05	176.05		
7250 FOOD-BUSINESS MEET/CONFERENCES				48.94	48.94		
8000 SUPPLIES & MATERIALS - OTHER			86.75	1,401.80	1,401.80		
	Totals :		87.36	1,627.40	1,627.40	0.0	0.00
Object Code Summary for Sub Account Start/End Date	: 8-597816-19950- : 07/01/2007 - 06				Ledger Date : 2 Overhead : 0	200905).0% base D (NO OV	rerhead Charged)
Ohi Danamintian		Overhead	Current Month	Year-to-Date	Cumulative	Current Month	Cumulative
Obj Description		Rate	Expenditure	Expenditure	Expenditure	Overhead	Overhead
2000 TRAVEL				181.90	181.90		
	Totals :		0.00	181.90	181.90	0.0	0.00
Summary by Sub Account for Account F	und : 8-597816-1995	0				Lec	lger Date : 200905
Sub Account Title	Sub Appro	priation	Expenditure	Encumbranc	e Balance	OD Commit	ited IDC Rate
GENERAL ASSISTANCE	2	0.0		.00	0.00 0.0	0	******
EMPLOYEE BENEFITS	6	0.0		.00	0.00 0.0	0 **	******
SUPPLIES & EXPENSE	3	1,897.3	,		0.00 269.9		85.8% 0.0
SPECIAL ITEMS Fotal	5	0.0 1,897.3			0.00 181.9 0.00 88.0	· · · -	******* 95.4%
Account Title : ESMS/UC CENTER FOR Fund Title : GEN FD-WATER RESOUR Sub Title : SUPPLIES & EXPENSE Agency :	CES CENTER			PI(S) : Award Number :	Start/End	nd/Sub: 8-597816 d Date: 07/01/20 Closed: FDP:	
Cost Trans Descript Obj Ctr Projct Type Date (28 posi		Ref no R	eq No AP Ref No	Vcher No TE Appropr	riation Expen	diture Enc	cumberance C

8000 4400		209 109	AMZ*AMAZON PAYMENTS May09 1st Class Mail	014 014		 - -	11081 46 11044 53				86.75 0.61		
							Current Month Cumulative Balance		0.00 1,897.38-			0	.00 .00 .98-
Fun		-WATI	NTER FOR WATER RES ER RESOURCES CENTER EMS				Award 1	PI(S):		nt/Fund/Sub : rt/End Date : Closed : FDP :	07/01/	316-19950-5 /2007 - 06/30/2	009
Obj Ct	ost Projet Cost Tra Er Type Dat	ns e	Description (28 positions)	Ref	no Req No AP Ref	No	Vcher No	Appropri	ation	Expenditure	F	Encumberance	OD
No tran	sactions for this	led	ger date										
							Cumulative Balance		0.00	1 **** com	.81.90 mitted	0 181	.00

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	Title : ESMS/UC CE				PI(S) :			8-597816-19950-2	
	Title : GEN FD-WAT Title : GENERAL AS		8			Start/E	Ind Date : Closed :	07/01/2007 - 06/	30/2009
	Agency :	DIDITINGE			Award Number :		FDP :		
		Description	Pof no I	Req NoAP Ref No	Vcher TE Appropri	ation Evn	enditure	Encumberano	ce OD
Ctr	Projct Cost Trans Type Date	(28 positions)	ver no i	red nour ver no	No IE Appropri	acion Exp	enarcare	Elicumberanc	Le OD
No transa	ctions for this led	lger date							
					Cumulative Balance	0.00	**** com	0.00 mitted	0.00
	Title : ESMS/UC CE				PI(S) :	Loc/Account/F	und/Sub :	8-597816-19950-6	
	Title : GEN FD-WAT		8			Start/E		07/01/2007 - 06/	30/2009
	Title : EMPLOYEE B Agency :	ENEFITS			Award Number:		Closed : FDP :		
		Description	2.0		Vahan			- 1	0.7
Obj Ctr	Cost Trans Projct _{Type} Date	(28 positions)	Rei no F	Req No AP Ref No	No TE Appropri	ation Exp	enditure	Encumberanc	ce OD
No transa	ctions for this led	lger date							
					 Cumulative	0.00		0.00	0.00
					Balance		**** com	mitted	0.00
Object C	ode Summary for Sub	Account : 8-5978	16-19950-3			Ledger Date :	200906		
	Start	/End Date : 07/01/						D (NO OVERHEAD C	
Obj Des	cription		Overhead	Current Month Expenditure	Year-to-Date	Cumulative			nulative
4400 FTR	ST CLASS MAIL		Rate	Expenditure	Expenditure 0.61	Expenditure 0.61	Ove	:Ineau U\	verhead
	PRINTS				176.05	176.05			
7250 FOO	D-BUSINESS MEET/CON	IFERENCES			48.94	48.94			
8000 SUP	PLIES & MATERIALS -			207.32	1,609.12	1,609.12			
		Τ	otals :	207.32	1,834.72	1,834.72		0.00	0.00
01-1		2 1 0 5070	1.6 10050 5			T - 1 D - -	200006		
Object C	ode Summary for Sub	/End Date : 07/01				Ledger Date :		D (NO OVERHEAD C	THARGED)
		./ End Date . 07/01/	Overhead	Current Month	Year-to-Date	Cumulative			nulative
Obj Des	cription		Rate	Expenditure	Expenditure	Expenditure		, ,	verhead
2000 TRA	VEL				181.90	181.90			
		I	otals :	0.00	181.90	181.90		0.00	0.00
Summary k	by Sub Account for	Account Fund : 8-59	77816-19950					Ledger Date	E: 200906
Sub Accou	nt Title	Sub	Appropriation	Expenditure	Encumbrance	Balance	OD	Committed	Rate
	ASSISTANCE	2	0.00	0.00	0.00			*****	0.0
	BENEFITS	6	0.00	0.00				*****	0.0
SUPPLIES	& EXPENSE	3 5	1,897.38-	1,834.72 181.90	0.00	62.66- 181.90	OD	96.7%	0.0
Total	TIEMS	J	1,897.38-	2,016.62	0.00	119.24	OD *	106.3%	0.0
iocai			1,007.50	2,010.02	0.00	110.24	OD	100.5%	
Account	Title : ESMS/UC CE	NTER FOR WATER RES			PI(S) :	Loc/Account/F	und/Sub :	8-597816-19950-3	
	Title : GEN FD-WAT		2					07/01/2007 - 06/	
Sub	Title : SUPPLIES &	EXPENSE					Closed :		
	Agency :				Award Number :		FDP :		
Obj Ctr	Cost Trans Projct Type Date	Description (28 positions)	Ref no F	Req No AP Ref No	Vcher TE Appropri	ation Exp	enditure	Encumberano	ce OD
Ctr	Type Date	(28 positions)			No 12 inpriorit				

8000	052609 SEHI-PROCOMP COMPU_100034293	014215 62340 200906SSH1	20066 21450 42		207.32	
			Current Month Cumulative Balance	•	207.32 1,834.72 96.70% committed	0.00 0.00 62.66-
Fund Titl	e: ESMS/UC CENTER FOR WATER RES ee: GEN FD-WATER RESOURCES CENTER ee: SPECIAL ITEMS		PI(S) Award Number	Start/	Fund/Sub : 8-597 /End Date : 07/01 Closed : FDP :	816-19950-5 /2007 - 06/30/2009
Obj Cost Pro	Cost Trans Description jct Type Date (28 positions)	Ref no Req NoAP Ref No	Vcher TE Appro	priation Ex	penditure	Encumberance OD
No transactio	ns for this ledger date					
			Cumulative Balance	0.00	181.90 ***** committed	0.00 181.90

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^{*} As of June 2009 account is in overdraft by \$119.24. In July 2009 \$119.24 in expenses will be transferred from this account bring the balance to \$0.00.

Account Title : ESMS/UC CENTER FOR WATER RES PI(S): Loc/Account/Fund/Sub: 8-597816-19950-2 Fund Title : GEN FD-WATER RESOURCES CENTER Start/End Date: 07/01/2007 - 06/30/2009 Sub Title : GENERAL ASSISTANCE Closed : Award Number : Agency: FDP : Cost Cost Trans Description Vcher Ref no Req NoAP Ref No No TE Appropriation Expenditure Obj Ctr ProjctType Date (28 positions) No transactions for this ledger date Cumulative 0.00 0.00 **** committed Balance 0.00 Account Title : ESMS/UC CENTER FOR WATER RES PI(S): Loc/Account/Fund/Sub: 8-597816-19950-6 Fund Title: GEN FD-WATER RESOURCES CENTER Start/End Date : 07/01/2007 - 06/30/2009 Sub Title : EMPLOYEE BENEFITS Closed: Award Number : Agency: FDP : Cost Cost Trans Description Vcher Ref no Req NoAP Ref No No TE Appropriation Expenditure Encumberance Obj Ctr ProjctType Date (28 positions) No transactions for this ledger date Cumulative 0.00 0.00 0.00 **** committed 0.00 Balance Account Title : ESMS/UC CENTER FOR WATER RES PI(S): Loc/Account/Fund/Sub: 8-597816-19950-3 Fund Title : GEN FD-WATER RESOURCES CENTER Start/End Date: 07/01/2007 - 06/30/2009 Sub Title : SUPPLIES & EXPENSE Closed : Agency : Award Number : FDP : Cost Cost Trans Description Vcher Obj Ctr ProjctType Date (28 positions) Ref no Req NoAP Ref No No TE Appropriation Expenditure Encumberance 119.24 070109 REAPPROPRIATION 119.24 0.00 Current Month

 Cumulative
 119.24
 0.00
 0.00

 Balance
 0.00% committed
 119.24

 Account Title : ESMS/UC CENTER FOR WATER RES PI(S): Loc/Account/Fund/Sub: 8-597816-19950-5 Fund Title : GEN FD-WATER RESOURCES CENTER Start/End Date : 07/01/2007 - 06/30/2009 Sub Title : SPECIAL ITEMS Closed : Agency : Award Number : FDP : Vcher Cost Cost Trans Description Obj Ctr ProjctType Date (28 positions) Ref no Reg NoAP Ref No No TE Appropriation Expenditure Encumberance 073109 Rev Close FJ 01053 53 181.90 15-053 14051 61 070109 Carry Forward for CF0609 181.90-01D50 12 181.90-070109 REAPPROPRIATION Current Month 181.90- 181.90 181 90-Cumulative 181.90 181.90-0.00 Balance 100.00% committed 0.00 Ledger Date : 200907 Object Code Summary for Sub Account: 8-597816-19950-5 Start/End Date : 07/01/2007 - 06/30/2009 Overhead: 0.0% base D (NO OVERHEAD CHARGED) Year-to-Date Cumulative Current Month Cumulative Expenditure Overhead Overhead Current Month Expenditure Overhead Current Month Obj Description 181.90 181.90 2000 TRAVEL 181.90 181.90 181.90 181.90 0.00 0.00 Totals :

Ledger Date 200907

Ledger Date : 200907

Summary by Sub Account for Account Fund: 8-597816-19950

Sub Account Title	Sub	Appropriation	Expenditure	Encumbrance	Balance	OD	Committed	IDC Rate
GENERAL ASSISTANCE	2	0.00	0.00	0.00	0.00		*****	0.0
EMPLOYEE BENEFITS	6	0.00	0.00	0.00	0.00		*****	0.0
SUPPLIES & EXPENSE	3	119.24	0.00	0.00	119.24	OD	0.0%	0.0
SPECIAL ITEMS	5	181.90-	181.90	0.00	0.00		100.0%	0.0
Total		62.66-	181.90	0.00	119.24	OD	290.3%	

Account Title : ESMS/UC CENTER FOR WATER RES PI(S): Loc/Account/Fund/Sub: 8-597816-19950-2 Fund Title : GEN FD-WATER RESOURCES CENTER Start/End Date: 07/01/2007 - 06/30/2009 Sub Title : GENERAL ASSISTANCE Closed : Agency: Award Number : FDP : Cost Cost Trans Description Vcher Obj Ctr ProjctType Date (28 positions) Ref no Reg NoAP Ref No No TE Appropriation Expenditure No transactions for this ledger date 0.00 Cumulative 0 00 0.000.00 Balance **** committed Account Title : ESMS/UC CENTER FOR WATER RES PI(S): Loc/Account/Fund/Sub: 8-597816-19950-6 Fund Title : GEN FD-WATER RESOURCES CENTER Start/End Date: 07/01/2007 - 06/30/2009 Sub Title : EMPLOYEE BENEFITS Closed: Agency: Award Number : FDP : Cost Cost Trans Description Vcher Obj Ctr ProjctType Date (28 positions) Ref no Req NoAP Ref No No TE Appropriation Expenditure Encumberance No transactions for this ledger date Cumulative 0.00 0.00 0.00 **** committed 0.00 Balance Account Title : ESMS/UC CENTER FOR WATER RES PI(S): Loc/Account/Fund/Sub: 8-597816-19950-3 Fund Title : GEN FD-WATER RESOURCES CENTER Start/End Date: 07/01/2007 - 06/30/2009 Sub Title : SUPPLIES & EXPENSE Closed : Award Number : FDP : Agency : Cost Cost Trans Description Vcher Obj Ctr ProjctType Date (28 positions) Ref no Req NoAP Ref No No TE Appropriation Expenditure Encumberance 052609 SEHI-PROCOMP COMPU I00034293 014215 200906SSH120066 262 54 Current Month 0.00 119.24- 0.00 Cumulative 119.24 119.24-Balance 100.00% committed 0.00 0.00 Account Title : ESMS/UC CENTER FOR WATER RES PI(S): Loc/Account/Fund/Sub: 8-597816-19950-5 Fund Title : GEN FD-WATER RESOURCES CENTER Start/End Date : 07/01/2007 - 06/30/2009 Sub Title : SPECIAL ITEMS Closed : Agency: Award Number : FDP : Cost Cost Trans Description Vcher Obj Ctr ProjctType Date (28 positions) No TE Appropriation Expenditure Encumberance Ref no Req NoAP Ref No ____ _____ No transactions for this ledger date Cumulative 181.90 181.90 0.00 Balance 100.00% committed Object Code Summary for Sub Account: 8-597816-19950-3 Ledger Date: 200908 Start/End Date : 07/01/2007 - 06/30/2009 Overhead: 0.0% base D (NO OVERHEAD CHARGED) Overhead Year-to-Date Cumulative Current Month Cumulative Current Month Obj Description Expenditure Expenditure Expenditure Overhead Overhead Rate 119.24-8000 SUPPLIES & MATERIALS - OTHER 119.24-119.24- 0.00 119.24-119.24-0.00 Totals : Ledger Date: 200908 Object Code Summary for Sub Account: 8-597816-19950-5 Start/End Date : 07/01/2007 - 06/30/2009 Overhead: 0.0% base D (NO OVERHEAD CHARGED) Cumulative Current Month Cumulative Overhead Current Month Year-to-Date Obj Description Expenditure Rate Expenditure Expenditure Overhead Overhead 181.90 2000 TRAVEL 181.90

Detailed Transaction Report with Balances

DEAN-SCHOOL OF ENV SCI & MGMT (ESMS)

Ledger Date 200908

0.00

0.00

181.90

181.90

0.00

Ledger Date : 200908

Summary by Sub Acc	count for Account Fur	und : 8-597816-19950
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Totals :

Sub Account Title	Sub	Appropriation	Expenditure	Encumbrance	Balance OD	Committed	IDC Rate
GENERAL ASSISTANCE	2	0.00	0.00	0.00	0.00	*****	0.0
EMPLOYEE BENEFITS	6	0.00	0.00	0.00	0.00	*****	0.0
SUPPLIES & EXPENSE	3	119.24	119.24-	0.00	0.00	100.0%	0.0
SPECIAL ITEMS	5	181.90-	181.90	0.00	0.00	100.0%	0.0
Total		62.66-	62.66	0.00	0.00	100.0%	