Aquifer Storage and Recovery Project

2007 Accounting Report

prepared for

City of Wichita
Wichita, Kansas

May 2008

Project No. 48919

prepared by

Burns & McDonnell Engineering Company, Inc.
Kansas City, Missouri

INDEX AND CERTIFICATION

Aquifer Storage and Recovery Project
2007 Accounting Report
City of Wichita

Project 48919

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Certification

I hereby certify, as a Professional Engineer in the state of Kansas, that the information in the document was assembled under my direct personal charge. This report is not intended or represented to be suitable for reuse by the City of Wichita or others without specific verification or adaptation by the Engineer. This certification is made in accordance with the provisions of the laws and rules of the State of Kansas under Kansas Administrative Code.

David Stous, P.E., P.G.
Hydrogeologist

BMcD Engineer, Paul McCormick, P.E.
Date: 5-30-08
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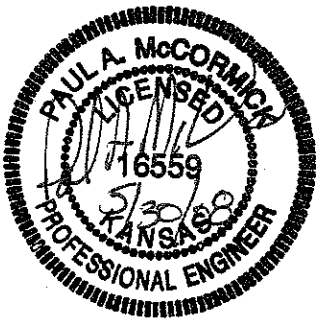

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1.0 INTRODUCTION

The purpose of this report is to provide a summary of the recharge and recovery activities for the City of Wichita Aquifer Storage and Recovery (ASR) project in the Equus Beds Aquifer during calendar year 2007 and to provide an accounting of recharge credits claimed for the year as required by the Kansas Department of Agriculture, Division of Water Resources (DWR).

1.1 BACKGROUND

Construction of Phase 1 of the City's ASR project was substantially complete on September 13, 2006. Phase 2 is currently under design. Phase 1, designed to permit recharge of up to 10 million gallons per day (MGD) consists of three diversion wells, a surface water intake, a treatment plant to remove sediment and atrazine from the surface water, 15 miles of pipeline, four recharge wells, two recharge basins and 50 monitoring wells. The Phase 1 recharge facilities are strategically located with the intent of developing a hydraulic barrier to slow the advancement of the Burrton brine plume toward the Wichita well field. A map of the facilities is presented in Figure 1.1.

The first accounting report, submitted in June 2007 detailed the disposition of water and calculated the amount of recharge credits claimed from ASR operations from the limited recharge that occurred during 2006. After substantial completion of the facilities in September 2006, flow in the Little Arkansas River for the balance of the year never exceeded the permitted rate that would trigger operation of the recharge facilities. Term permits in the amount of 90 acre-feet (ac-ft) were granted for the three diversion wells (30 ac-ft each) to be used for pipeline flushing and facility testing. Some of the term permit water used for testing was recharged in the basins and recharge wells as part of the startup testing.

1.2 2007 OPERATIONS

2007 was the first full year of recharge operations for the project. Flow in the Little Arkansas River exceeded the minimum limit for diversion and recharge operations a total of 156 days in 2007. The volume of water pumped from the surface intake, the diversion wells, recharge through the basins and recharge wells, and water pumped for maintenance in 2007 is shown in Table 1.1.

Figure 1.1

ASR PHASE I
FACILITY LOCATIONS

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Table 1.1
2007 Metered Diversion, Recharge and Recovery Volumes

Diversions	(gallons)	(acre-feet)
Surface Intake	96,282,491	295.5
DW1	96,737,469	296.9
DW2	99,848,963	306.4
DW3	104,039,910	319.3
Recharged (metered):		
RB1	0	0
RB2	66,897,663	205.3
RRW1	43,267,211	132.8
RRW2	69,205,807	212.4
RRW3	75,386,013	231.4
RW1	100,523,612	308.5
Recharge Credits Recovered		
RRW1	0	0
RRW2	0	0
RRW3	0	0
Recharge Well Maintenance Pumping		
RRW1	368,063	1.13
RRW2	698,537	2.14
RRW3	400,896	1.23
RW 1	306,084	0.94

Maintenance pumping is performed periodically to redevelop the wells when recharge efficiency begins decline. The discharged water is currently sent to Recharge Basin 2. The amounts are deducted from the well recharge credit and are included in Recharge Basin 2 recharge volume.

Details of the water budgets and groundwater modeling to support the recharge credit claimed are presented in the following sections.

1.2.1 Accounting Report Components

The DWR Chief Engineer's Order approving the Wichita ASR applications requires that the accounting shall use a groundwater flow model and specifically address the following items for each cell in the basin storage area.

- Natural and artificial recharge
- Groundwater inflow and outflow
- Evaporation and transpiration

- Groundwater diversions from all non-domestic wells
- Infiltration from streams
- Groundwater discharge to streams
- Calculated recharge credits
- Surface water diversions

* * * * *

2.0 GROUNDWATER MODELING

2.1 BACKGROUND

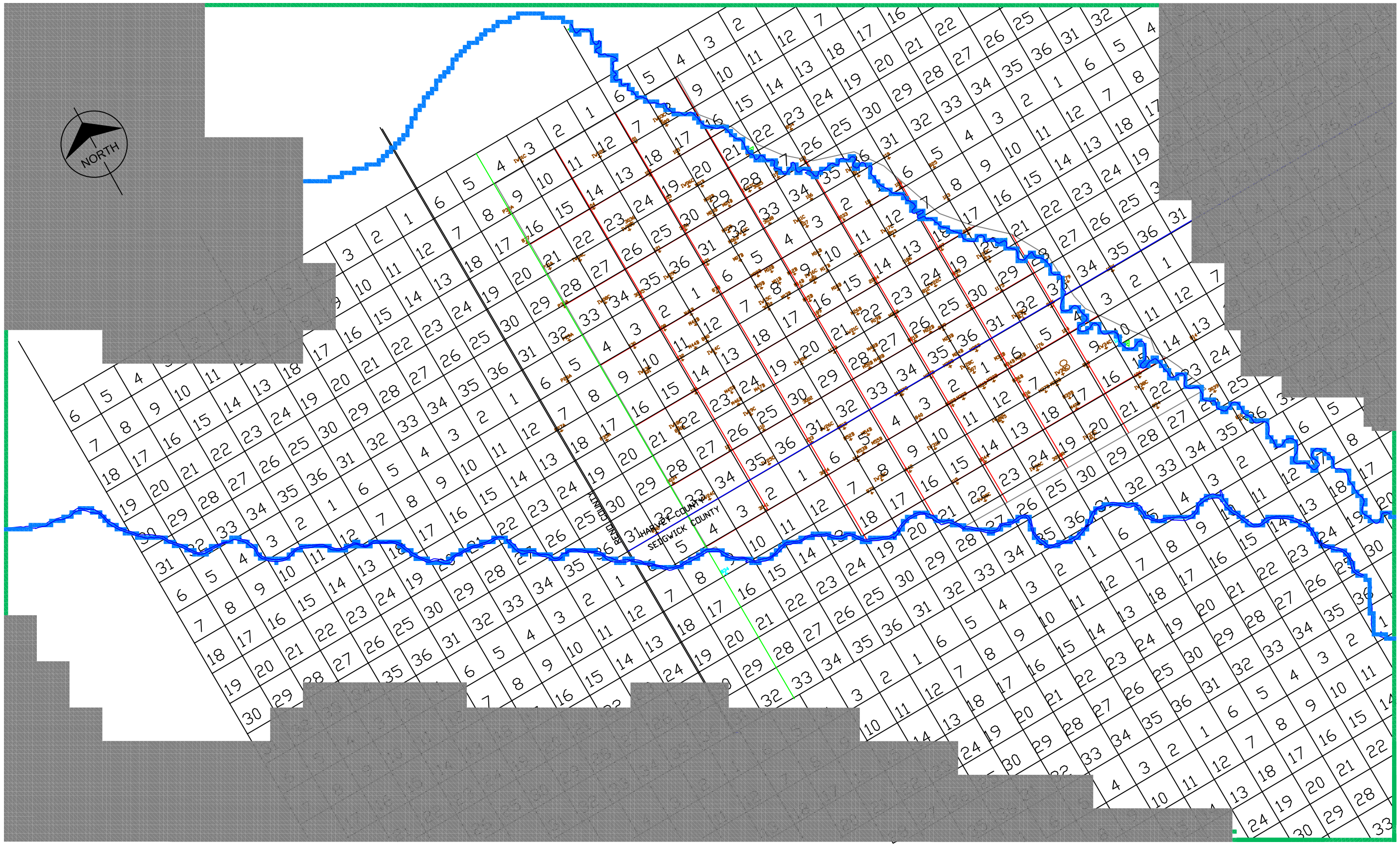
DWR requires a groundwater-based accounting system to track movement of recharge credits as a condition for approval of permits required to capture, store and recover water for beneficial use by the City of Wichita. The groundwater model currently in use was originally developed by the U. S. Geological Survey (USGS) office in Lawrence, Kansas. The model was refined by the U.S. Bureau of Reclamation (USBR) for analysis of chloride migration in the Burrton, Kansas area. The model was later refined and used to evaluate the City's Aquifer Storage and Recovery project.

The USGS groundwater flow model was developed to study stream-aquifer interaction between the Arkansas River and the Equus Beds aquifer. The USGS model area includes the current study area along the Little Arkansas River. The original USGS model grid consists of 34 rows, 42 columns and 3 layers. The location and extent of the model area is shown in Figure 2.1.

The model uses constant-head nodes along the margins of the model boundary to represent areas where the aquifer extends beyond the model boundary. No-flow boundaries represent areas where shale provides a natural barrier to groundwater flow. The model included areal recharge, evapotranspiration, stream flow and well pumpage. More extensive details of the USGS model including information regarding model set-up, calibration, sensitivity analysis and model results are contained in "Hydrologic and Chemical Interaction of the Arkansas River and the Equus Beds Aquifer Between Hutchinson and Wichita, South-Central Kansas," USGS Water-Resources Investigation Report 95-4191 (Myers, et al, 1995).

The USBR modified the USGS model for a contaminant transport study for Groundwater Management District No. 2. In order to improve the accuracy of the transport modeling, the USBR reduced model grid spacing and adjusted the grid cells to a more uniform dimension. This resulted in a model grid consisting of 54 rows and 84 columns. Details of the USBR modeling are given in "Arkansas River Water Management Improvement Study, Modeling of Chloride Transport in the Equus Beds Aquifer" (Pruitt, 1993).

Because the primary area of interest during the initial ASR Investigation was the Wichita well field, the model was re-gridded to provide better resolution in this area. The finest grid spacing was 1000 feet by 1000 feet and resulted in a model domain with 84 rows and 120 columns.



STREAM CELL

CONSTANT HEAD BOUNDARY CELL

NO-FLOW CELL

0 15,000 30,000

APPROXIMATE SCALE IN FEET

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Figure 2.1

ACCOUNTING MODEL AREA AND BOUNDARY CONDITIONS

2.2 MODEL IMPLEMENTATION FOR ASR ACCOUNTING

DWR required that ASR accounting include groundwater modeling to track movement of recharged water within the index cells previously established. Because the individual index cells are not closed basins, water will migrate from one cell to the next down-gradient cell. Groundwater modeling has been proven to accurately quantify the groundwater movement; however, modeling cannot directly track the movement of recharge credits from one index cell to another and keep it separate from movement of non-recharge water.

In order to track recharge credits, two model runs are implemented, one with simulated recharge and one without. Because the only difference between the two model runs is the water recharged, the differences in the water budget between the two model runs are assumed to be due to the impact of recharged water. For example if the net underflow from one index cell to the next is greater with the model run that simulates recharge, the difference is assumed to be due to recharge. This difference is the amount of recharge credit given.

2.3 MODEL SETUP AND IMPLEMENTATION

The groundwater model used for the Wichita ASR accounting has been upgraded and refined with data acquired during various phases of investigation for the ASR project. Basic model refinements include reducing model cell size to a uniform 632.5 feet by 632.5 feet, resulting in a model with 200 rows and 340 columns. The reduced cell size required repair of stream parameters. Additionally, some adjustments were made to aquifer parameters in areas where additional data was available.

The model was translated into a newer version of the modeling pre- and post-processing software (Groundwater Vistas, V 4.0) and upgraded to run in MODFLOW 2000.

The 2007 model update simulates transient conditions from 2003 through 2007. The model units are feet, cubic feet and days. Unless otherwise noted below, units are model units.

2.4 BASIN STORAGE AREA STRESSES FOR MODEL INPUT

2.4.1 Precipitation and Recharge

A percentage of annual precipitation contributes to natural recharge. The USGS used average precipitation from three area weather stations and then distributed the recharge across the model area based on soil type, ground cover and model calibration. The current model employs data from the same

locations plus the station that was added at Newton. The calculated recharge for each index cell is shown in the model water budget summaries contained in Appendix A.

2.4.2 Stream Flow

Stream flow can contribute to aquifer recharge depending on river stage, river bed conductivity, and elevation of the underlying groundwater table. Variations in river stage and flow are considered in the groundwater model using the MODFLOW stream package in which a starting flow is assigned to the upstream river node with MODFLOW assigning river flow and stage in downstream nodes. The USGS determined that the appropriate starting river flow was that flow with a 70 percent return interval within the modeled stress period.

For this accounting report the 2007 river flows at Alta Mills were evaluated for the Little Arkansas River and a value of 8.5 cubic feel per second (cfs) was determined for the 70 percent return interval. The flow for the Arkansas River was determined to be 263 cfs at Hutchinson.

2.4.3 Groundwater Pumping

Water use data for 2007 was obtained from DWR. Water use reported in ac-ft by DWR was converted to average daily pumping rates, and well locations reported in geographic coordinates (latitude and longitude) were converted to model coordinates. The converted data was then imported into the model. A copy of this data is contained in Appendix B.

2.5 MODEL CALIBRATION

The current model has a water budget mass balance discrepancy of -0.00 percent, a residual mean of -0.38 feet and mean absolute residual (compared to selected observed January 2008 index well water levels) of 5.64 feet. The mean absolute residual is comparable with that for the USGS model which had a model-wide mean absolute residual of 4.67 feet. The mean absolute residual is the average absolute difference between measured water levels and computed water levels at the same location. Differences are due to seasonal variations in local weather (recharge), timing of local pumping, and other operations factors.

2.6 MODEL WATER BUDGET

MODFLOW permits tracking of groundwater flow throughout the model. This includes flows into and out of the model, flows between cells within the model, and changes in storage on a cell-by-cell basis. With the processing software a group of model cells may be combined into a hydrostratigraphic unit for

which a composite water budget can be calculated. For the accounting model, a total of 38 hydrostratigraphic units were established and numbered to represent the ASR index cell areas. For most of the model, the model hydrostratigraphic units roughly match the actual cells; however, on the eastern side of the basin storage area, the Little Arkansas River was not included in an index cell boundary. Because river interaction in an important element in the complete accounting, several index cells were extended eastward in the model to include the river. A map depicting the modeled hydrostratigraphic units (index cells) is shown in Figure 2.2.

Groundwater Vistas can generate a water balance report. A copy of the detailed reports both with and without ASR is included in Appendix C. The water balance reports for the model runs with and without ASR are combined to show net changes in the water budget which are reported in the Index Cell Water Budget Summaries.

2.7 SPECIFIC WATER BUDGET COMPONENTS

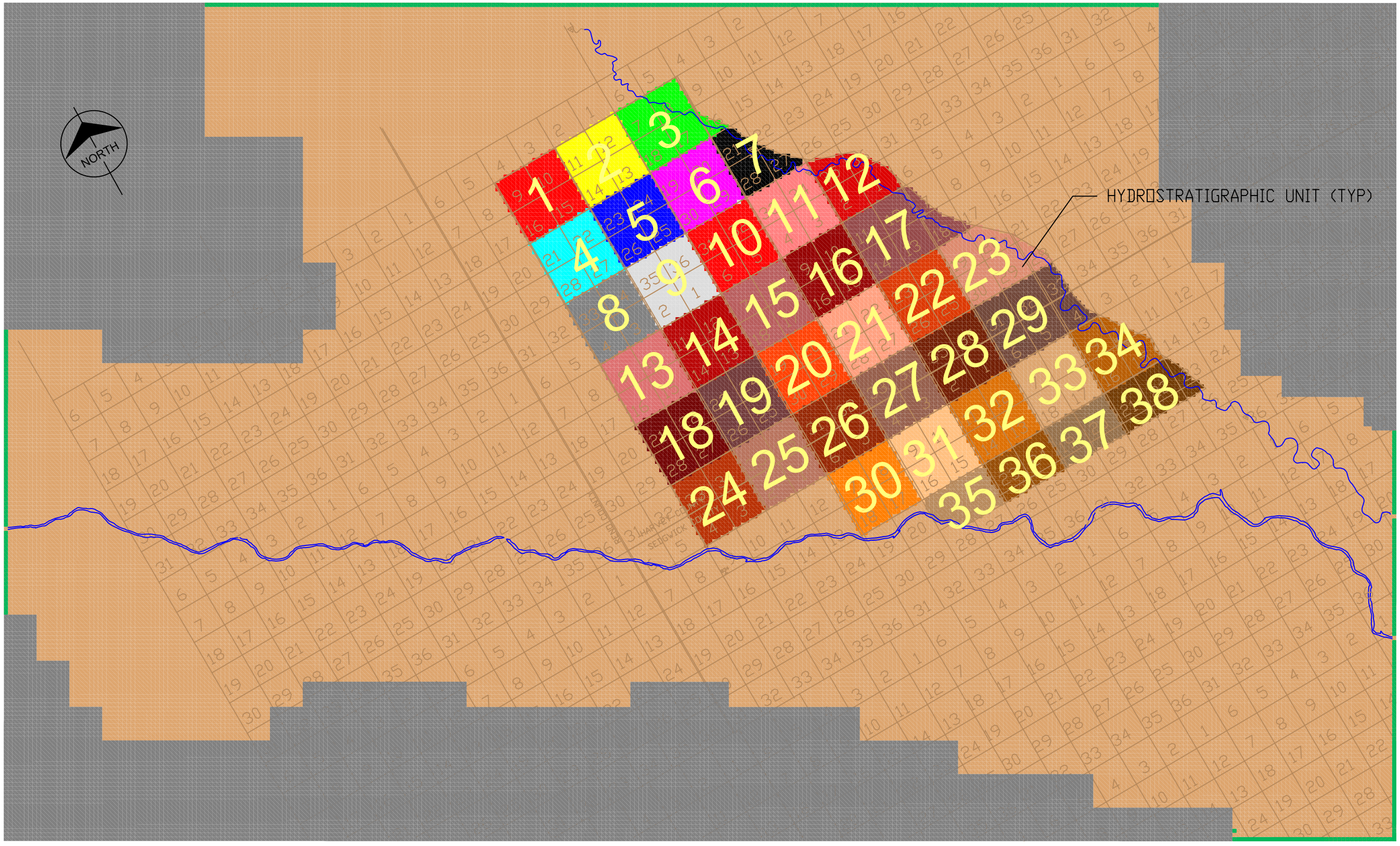
2.7.1 Natural and Artificial Recharge

2.7.1.1 Natural Recharge

The amount of natural recharge entering an aquifer system is based on many factors including amount of precipitation and surface conditions of soil texture, slope, and type and amount of groundcover. The GMD2 has determined that approximately 20 percent of rainfall is recharged to the aquifer. The USGS groundwater model used average rainfall from Wichita, Hutchison, and Mount Hope for model input. Since that time, an additional weather station in Newton has become available. Recharge is distributed across the model based on soil type and other factors. Recharge for 2007 is based on the following annual rainfall totals.

Station	2007 (in.)
Hutchinson E.	44.35
Mount Hope	35.30
Wichita	37.89
Newton	35.93
Average	38.37

The modeled amount of recharge for each index cell is shown in the model water budget summaries presented in Appendix A.



CONSTANT HEAD BOUNDARY CELL

NO-FLOW CELL

0 15,000 30,000

APPROXIMATE SCALE IN FEET

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Figure 2.2

INDEX ACCOUNTING CELLS AS HYDROSTRATIGRAPHIC UNITS

2.7.1.2 Artificial Recharge

The metered volume of water recharged through the basins and recharge wells is shown in the Table 1.1. For the groundwater model, these volumes are considered as well pumpage into the aquifer (both wells and basins).

2.7.2 Groundwater Inflow and Outflow

Groundwater inflow and outflow is the amount of groundwater or underflow migrating into an index cell from other areas and flowing out of an index cell to other areas. The net underflow, positive or negative, is shown in the model water budget summaries for water movement between index cells or areas outside of the recharge basin area.

2.7.3 Evaporation and Transpiration

Evapotranspiration is estimated in the model. Earlier USGS studies estimated maximum evapotranspiration to be approximately 3.5 in/yr. The USGS model incorporated a maximum value of 3.5 in/yr when the water table is at the surface. The rate is reduced with deeper groundwater level and is 0 when the water table is below 10 feet from the surface. Estimates of evapotranspiration are given for each index cell in the model water budgets.

2.7.4 Groundwater Diversions from Non-Domestic Wells

Groundwater diversions from all non-domestic wells are obtained from DWR in an electronic spreadsheet format. The well location and annual pumping is provided. Well pumpage is obtained from the annual well reports required of all permitted owners.

The 2007 DWR groundwater pumping data used for model input is contained in Appendix B. The amount of pumpage within each index cell in shown in the model water budget summaries. The volume shown in the summary is the net volume for the cell (pumpage minus volume recharged).

2.7.5 Infiltration from Streams

When aquifer levels are lower than water levels in a stream, there is a potential for water inflow or infiltration from the stream to the aquifer. The amount of flow depends on the difference in water levels and the permeability of the streambed. Using the calibrated USGS model, estimates of net flow (water leaving the stream minus water entering the stream) is estimated for each index cell that has a river reach.

Infiltration from the Little Arkansas River was approximately 9000 acre-feet in 2007 throughout the river reach included in the basin storage area. Infiltration from the Arkansas River in 2007 was 1658 acre-feet. Only IW-35 includes Arkansas River inflows. The estimates are shown in the model index cell water budget.

2.7.6 Groundwater Discharge to Streams

When aquifer levels are higher than water levels in a stream, there is a potential for water inflow or infiltration from the aquifer to the stream. The amount of flow depends on the difference in water levels and the permeability of the streambed. Using the calibrated USGS model, estimates of net flow (water leaving the stream minus water entering the stream) is estimated for each index cell that has a river reach.

The model shows that a total of 14,630 acre-feet of water migrated from the aquifer without the basin storage area to the Little Arkansas River in 2007. This accounts for about 20 cfs of the average annual flow of 354 cfs for the year. The estimates are shown in the model index cell water budget.

2.7.7 Calculated Recharge Credits

Calculated recharge credits are based on the following for each index cell:

	Previous recharge credit
+	metered additional recharge
-	recharge credits recovered for use or maintenance
+	recharge credits entering by underflow (modeled)
-	recharge credits leaving by underflow or flow to river (modeled)
=	current recharge credit

Some differences in the water budgets with ASR and without ASR are excluded from the recharge credit calculations. For example, cells upgradient of recharge cells have a reduced underflow to the recharge cell. This difference is not a credit, but shows increased water in storage in the upgradient (non-recharge) cell. This indicates that the barrier to the Burton Salt Water plume is beginning to form.

A summary of the calculated recharge credits is presented in Table 2.1.

Table 2.1
2007
Recharge Credit Summary
(Acre-Feet)

Index Cell	Previous Recharge Credit	2007 Metered Recharge	2007 Metered Recovery	Net Recharge Credit Underflow Entering Index Cell	Net Recharge Credit Underflow Leaving Index Cell	Net Recharge Credit Loss to River	Current Recharge Credit
1	0.0			----	----	----	----
2	0.7	131.7	0.0	130.5	140.3	----	122.6
3	0.2			189.1	12.1	0.0	177.2
4	0.0			----	----	----	----
5	1.2	440.4	0.0	27.5	271.8	----	197.3
6	0.3			182.0	130.5	----	51.8
7	0.0			27.4	5.3	16.1	6.0
8	0.0			----	----	----	----
9	0.5	307.6	0.0	-1.8	185.7	----	120.6
10	0.1			117.3	72.3	----	45.1
11	0.0			33.4	16.4	----	17.0
12	0.0			2.8	0.4	1.1	1.2
13	0.0			----	----	----	----
14	0.0	205.3	0.0	40.9	4.9	----	241.3
15	0.0			31.0	9.0	----	22.0
16	0.0			12.5	3.5	----	8.9
17	0.0			1.7	0.4	0.2	1.1
18	0.0			----	----	----	----
19	0.0			2.0	1.6	----	0.4
20	0.0			4.4	2.4	----	2.0
21	0.0			3.1	1.0	----	2.1
22	0.0			0.5	0.1	----	0.3
23	0.0			0.0	0.0	0.0	0.0
24	0.0			----	----	----	----
25	0.0			0.1	0.0	----	0.1
26	0.0			0.4	0.2	----	0.3
27	0.0			0.4	0.0	----	0.4
28	0.0			0.1	0.0	----	0.1
29	0.0			0.0	0.0	0.0	0.0
30	0.0			0.0	0.0	----	0.0
31	0.0			0.0	0.0	----	0.0
32	0.0			0.0	0.0	----	0.0
33	0.0			0.0	0.0	----	0.0
34	0.0			0.0	0.0	0.0	0.0
35	0.0			0.0	0.0	0.0	0.0
36	0.0			0.0	0.0	----	0.0
37	0.0			0.0	0.0	----	0.0
38	0.0			0.0	0.0	0.0	0.0
Total	3.0	1084.9	0.0	805.6	858.0	17.3	1018.1

* Metered recharge minus well maintenance pumping

2.7.8 Surface Water Diversions

Surface water was diverted, treated and recharged in the recharge basins. The volume diverted is shown in Table 1.1.

* * * * *

APPENDIX A - INDEX CELL WATER BUDGET SUMMARIES

City of Wichita
2007 ASR Accounting

Index Cell 1

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	36,445	36,445	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	0	0	0	0.00
Storage	11,625	6,574	5,051	42.32
Flows Between Index Cells Index Cell Number				
Index Cell 2	366,243	373,463	-7,220	-60.50
Index Cell 4	217,267	220,933	-3,666	-30.71
Outside Basin Area	162,695	161,536	1,159	9.71
Net Underflow Between Index Cells				-81.50
	Upgradient Cell - No Recharge Credits			
Metered recharge (no recharge facilities)				

City of Wichita
2007 ASR Accounting

Index Cell 2

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	34,389	34,389	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	9,492	9,284	208	1.74
Storage	21,460	15,245	6,214	52.07
Flows Between Index Cells Index Cell Number				
Index Cell 1	0	0	0	0.00
Index Cell 3	407,310	393,656	13,654	114.41
Index Cell 5	225,054	227,283	-2,228	-18.67
Index Cell 6	27,388	26,735	652	5.46
Outside Basin Area	135,323	130,660	4,663	39.07
Net Underflow Between Index Cells				140.27

Metered recharge	Gallons	AF
RRW-1	43,267,211	132.78
Total	43,267,211	132.78

City of Wichita
2007 ASR Accounting

Index Cell 3

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	121,916	11,805	110,111	922.65
Stream	604,261	686,104	-81,843	-685.79
Recharge	0	0	0	0.00
ET	40,132	40,632	-500	-4.19
Storage	10,544	8,239	2,306	19.32
Flows Between Index Cells Index Cell Number				
Index Cell 2	0	0	0	0.00
Index Cell 6	176,423	174,978	1,445	12.11
Index Cell 7	28,727	28,760	-33	-0.28
Outside Basin Area	125,905	130,107	-4,202	-35.21
Net Underflow Between Index Cells				12.11

Values in yellow cells not included in Net Underflow Between Index Cells calculation

Metered recharge
(no recharge facilities)

City of Wichita
2007 ASR Accounting

Index Cell 4

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	49,819	49,819	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	0	0	0	0.00
Storage	17,816	10,804	7,011	58.75
Flows Between Index Cells Index Cell Number				
Index Cell 1	145,797	147,094	-1,296	-10.86
Index Cell 5	495,093	509,262	-14,168	-118.72
Index Cell 8	186,040	187,584	-1,544	-12.94
Index Cell 9	24,368	24,772	-404	-3.38
Outside Basin Area	0	0	0	0.00
Net Underflow Between Index Cells				-145.90
	Upgradient Cell - No Recharge Credits			
Metered recharge (no recharge facilities)				

City of Wichita
2007 ASR Accounting

Index Cell 5

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	78,550	78,550	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	1,165	933	232	1.94
Storage	30,841	21,846	8,995	75.37
Flows Between Index Cells Index Cell Number				
Index Cell 2	134,312	118,737	15,575	130.51
Index Cell 4	0	0	0	0.00
Index Cell 6	465,734	448,628	17,106	143.33
Index Cell 9	257,769	258,012	-243	-2.04
Net Underflow Between Index Cells				271.80

Metered recharge	Gallons	AF
RRW-2	69,205,807	212.38
RRW-3	75,386,013	231.35
Total	144,591,820	443.74

City of Wichita
2007 ASR Accounting

Index Cell 6

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	162,891	162,891	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	26,657	26,095	562	4.71
Storage	25,632	20,040	5,592	46.86
Flows Between Index Cells Index Cell Number				
Index Cell 2	0	0	0	0.00
Index Cell 3	124,091	115,373	8,718	73.05
Index Cell 5	0	0	0	0.00
Index Cell 7	227,057	224,802	2,255	18.89
Index Cell 9	21,110	20,786	325	2.72
Index Cell 10	225,141	221,015	4,126	34.57
Index Cell 11	11,905	11,759	146	1.23
Net Underflow Between Index Cells				130.46
Metered recharge (no recharge facilities)				

City of Wichita
2007 ASR Accounting

Index Cell 7

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	51,394	51,394	0	0.00
Stream	310,181	308,264	1,917	16.07
Recharge	0	0	0	0.00
ET	41,302	41,260	41	0.35
Storage	2,833	2,473	360	3.02
Flows Between Index Cells Index Cell Number				
Index Cell 3	11,014	10,814	200	1.67
Index Cell 6	0	0	0	0.00
Index Cell 11	92,305	91,904	401	3.36
Outside Basin Area	33,293	33,257	36	0.30
Net Underflow Between Index Cells				5.33
Metered recharge (no recharge facilities)				

City of Wichita
2007 ASR Accounting

Index Cell 8

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	83,496	83,496	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	0	0	0	0.00
Storage	39,070	33,648	5,422	45.44
Flows Between Index Cells Index Cell Number				
Index Cell 4	84,420	88,477	-4,057	-34.00
Index Cell 9	424,907	430,921	-6,014	-50.39
Index Cell 13	169,137	169,331	-194	-1.63
Outside Basin Area	0	0	0	0.00
Net Underflow Between Index Cells				-86.02
	Upgradient Cell - No Recharge Credits			
Metered recharge (no recharge facilities)				

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Index Cell 9

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	77,112	77,112	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	0	0	0	0.00
Storage	37,938	30,286	7,651	64.11
Flows Between Index Cells Index Cell Number				
Index Cell 4	0	0	0	0.00
Index Cell 5	11,708	6,192	5,516	46.22
Index Cell 6	4,461	4,027	434	3.64
Index Cell 8	91	0	91	0.76
Index Cell 10	447,034	436,406	10,628	89.06
Index Cell 13	0	0	0	0.00
Index Cell 14	289,311	284,142	5,169	43.32
Index Cell 15	27,088	26,767	320	2.69
Net Underflow Between Index Cells				185.68

Metered recharge	Gallons	AF
RB-1	0	0.00
RW-1	100,523,612	308.50
Total	100,523,612	308.50

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Index Cell 10

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	277,071	277,071	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	0	0	0	0.00
Storage	33,736	28,365	5,371	45.00
Flows Between Index Cells Index Cell Number				
Index Cell 6	45,773	43,695	2,078	17.41
Index Cell 9	6,366	5,474	892	7.47
Index Cell 11	317,386	313,934	3,452	28.93
Index Cell 15	204,445	202,241	2,203	18.46
Net Underflow Between Index Cells				72.28
Metered recharge (no recharge facilities)				

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Index Cell 11

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	72,564	72,564	0	0.00
Stream	69,504	69,302	202	1.70
Recharge	0	0	0	0.00
ET	10,084	10,053	31	0.26
Storage	24,208	22,416	1,792	15.01
Flows Between Index Cells Index Cell Number				
Index Cell 6	0	0	0	0.00
Index Cell 7	53,663	52,614	1,049	8.79
Index Cell 10	6,555	6,568	-13	-0.11
Index Cell 12	163,432	163,132	301	2.52
Index Cell 15	3,018	3,003	15	0.12
Index Cell 16	168,565	167,956	609	5.10
Outside Basin Area	0	0	0	0.00
Net Underflow Between Index Cells				16.43
Metered recharge (no recharge facilities)				

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Index Cell 12

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	16,557	16,557	0	0.00
Stream	332,653	332,520	134	1.12
Recharge	0	0	0	0.00
ET	28,749	28,747	1	0.01
Storage	3,618	3,539	79	0.66
Flows Between Index Cells Index Cell Number				
Index Cell 11	8,382	8,387	-5	-0.04
Index Cell 16	296	299	-4	-0.03
Index Cell 17	94,945	94,884	61	0.51
Outside Basin Area	42,212	42,211	0	0.00
Net Underflow Between Index Cells				0.44
Metered recharge (no recharge facilities)				

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Index Cell 13

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	44,966	44,966	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	0	0	0	0.00
Storage	159,386	157,270	2,116	17.73
Flows Between Index Cells Index Cell Number				
Index Cell 8	96,288	98,397	-2,109	-17.67
Index Cell 9	6,266	6,524	-258	-2.16
Index Cell 14	324,174	324,828	-654	-5.48
Index Cell 18	180,814	180,819	-5	-0.04
Index Cell 19	22,172	22,164	8	0.07
Outside Basin Area	0	0	0	0.00
Net Underflow Between Index Cells				-25.29

Upgradient Cell - No Recharge Credits

Metered recharge
(no recharge facilities)

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Index Cell 14

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	268,699	268,699	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	0	0	0	0.00
Storage	66,515	62,881	3,634	30.45
Flows Between Index Cells Index Cell Number				
Index Cell 9	8,237	9,425	-1,188	-9.95
Index Cell 13	0	0	0	0.00
Index Cell 15	300,686	299,173	1,512	12.67
Index Cell 19	163,590	163,328	262	2.20
Net Underflow Between Index Cells				4.92

Metered recharge	Gallons	AF
RB-2	66,897,663	205.30
Total	66,897,663	205.30

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Index Cell 15

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	263,196	263,196	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	0	0	0	0.00
Storage	36,714	34,096	2,618	21.94
Flows Between Index Cells Index Cell Number				
Index Cell 9	0	0	0	0.00
Index Cell 10	17,861	18,606	-745	-6.25
Index Cell 11	2,932	2,938	-6	-0.05
Index Cell 14	4,093	3,561	532	4.46
Index Cell 16	253,953	253,067	886	7.42
Index Cell 19	0	0	0	0.00
Index Cell 20	164,641	164,264	377	3.15
Index Cell 21	17,021	16,994	27	0.23
Net Underflow Between Index Cells				8.97
Metered recharge (no recharge facilities)				

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Index Cell 16

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	250,440	250,440	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	2,199	2,187	12	0.10
Storage	35,764	34,714	1,051	8.80
Flows Between Index Cells Index Cell Number				
Index Cell 11	399	401	-2	-0.01
Index Cell 12	0	0	0	0.00
Index Cell 15	17,875	17,760	115	0.96
Index Cell 17	184,616	184,469	148	1.24
Index Cell 21	147,769	147,606	163	1.36
Net Underflow Between Index Cells				3.55
Metered recharge (no recharge facilities)				

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Index Cell 17

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	92,294	92,294	0	0.00
Stream	120,380	120,362	18	0.15
Recharge	0	0	0	0.00
ET	75,805	75,799	6	0.05
Storage	15,902	15,774	129	1.08
Flows Between Index Cells Index Cell Number				
Index Cell 12	12,094	12,061	33	0.28
Index Cell 16	27,630	27,628	2	0.02
Index Cell 22	151,830	151,812	18	0.15
Index Cell 23	84,868	84,868	0	0.00
Outside Basin Area	53,256	53,256	0	0.00
Net Underflow Between Index Cells				0.44
Metered recharge (no recharge facilities)				

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Index Cell 18

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	142,829	142,829	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	1,098	1,097	1	0.00
Storage	149,201	148,785	416	3.48
Flows Between Index Cells Index Cell Number				
Index Cell 13	143,660	144,053	-393	-3.29
Index Cell 19	236,335	236,434	-98	-0.82
Index Cell 24	70,497	70,495	2	0.01
Outside Basin Area	0	0	0	0.00
Net Underflow Between Index Cells				-4.10
	Upgradient Cell - No Recharge Credits			
Metered recharge (no recharge facilities)				

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Index Cell 19

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	148,155	148,155	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	0	0	0	0.00
Storage	61,109	60,287	822	6.89
Flows Between Index Cells Index Cell Number				
Index Cell 13	0	0	0	0.00
Index Cell 14	59,333	60,147	-814	-6.82
Index Cell 15	2,065	2,111	-46	-0.38
Index Cell 18	0	0	0	0.00
Index Cell 20	303,062	302,894	169	1.41
Index Cell 24	0	0	0	0.00
Index Cell 25	95,096	95,081	14	0.12
Index Cell 26	21,267	21,261	6	0.05
Net Underflow Between Index Cells				1.58

Values in yellow cells not included in Net Underflow Between Index Cells calculation

Metered recharge
(no recharge facilities)

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Index Cell 20

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	64,409	64,409	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	0	0	0	0.00
Storage	29,566	28,906	660	5.53
Flows Between Index Cells Index Cell Number				
Index Cell 15	23,008	23,428	-420	-3.52
Index Cell 19	721	678	44	0.37
Index Cell 21	357,562	357,370	193	1.61
Index Cell 26	179,804	179,753	51	0.43
Net Underflow Between Index Cells				2.41

Values in yellow cells not included in Net Underflow Between Index Cells calculation

Metered recharge
(no recharge facilities)

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Index Cell 21

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	206,891	206,891	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	744	742	2	0.02
Storage	34,337	34,088	249	2.09
Flows Between Index Cells Index Cell Number				
Index Cell 15	0	0	0	0.00
Index Cell 16	434	441	-7	-0.06
Index Cell 20	10,482	10,422	60	0.50
Index Cell 22	223,342	223,305	37	0.31
Index Cell 27	194,511	194,479	32	0.27
Index Cell 28	28,129	28,128	1	0.01
Net Underflow Between Index Cells				1.04
Metered recharge (no recharge facilities)				

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Index Cell 22

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	137,827	137,827	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	9,934	9,932	1	0.01
Storage	33,993	33,953	40	0.33
Flows Between Index Cells Index Cell Number				
Index Cell 17	0	0	0	0.00
Index Cell 21	26,765	26,762	3	0.03
Index Cell 23	150,269	150,265	4	0.04
Index Cell 28	203,176	203,171	5	0.04
Net Underflow Between Index Cells				0.11
Metered recharge (no recharge facilities)				

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Index Cell 23

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	90,633	90,633	0	0.00
Stream	110,947	110,946	0	0.00
Recharge	0	0	0	0.00
ET	15,011	15,011	0	0.00
Storage	14,299	14,296	2	0.02
Flows Between Index Cells Index Cell Number				
Index Cell 17	0	0	0	0.00
Index Cell 22	44,232	44,233	-1	0.00
Index Cell 28	4,462	4,462	0	0.00
Index Cell 29	173,347	173,346	1	0.01
Outside Basin Area	15,848	15,848	0	0.00
Net Underflow Between Index Cells				0.00
Metered recharge (no recharge facilities)				

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Index Cell 24

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	90,069	90,069	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	8,808	8,807	0	0.00
Storage	14,282	14,258	23	0.19
Flows Between Index Cells Index Cell Number				
Index Cell 18	98,780	98,799	-19	-0.16
Index Cell 19	5,943	5,945	-2	-0.02
Index Cell 25	181,162	181,165	-2	-0.02
Outside Basin Area	97,227	97,227	0	0.00
Net Underflow Between Index Cells				-0.19
	Upgradient Cell - No Recharge Credits			
Metered recharge (no recharge facilities)				

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Index Cell 25

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	177,961	177,961	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	378	378	0	0.00
Storage	10,405	10,328	77	0.65
Flows Between Index Cells Index Cell Number				
Index Cell 19	85,177	85,244	-66	-0.56
Index Cell 24	0	0	0	0.00
Index Cell 26	179,171	179,173	-2	-0.02
Index Cell 30	10,671	10,671	0	0.00
Outside Basin Area	53,975	53,974	0	0.00
Net Underflow Between Index Cells				0.00

Values in yellow cells not included in Net Underflow Between Index Cells calculation

Metered recharge
(no recharge facilities)

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Index Cell 26

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	239,735	239,735	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	0	0	0	0.00
Storage	6,272	6,180	91	0.76
Flows Between Index Cells Index Cell Number				
Index Cell 19	0	0	0	0.00
Index Cell 20	34,053	34,132	-79	-0.66
Index Cell 25	0	0	0	0.00
Index Cell 27	250,130	250,109	21	0.18
Index Cell 30	73,563	73,561	2	0.02
Net Underflow Between Index Cells				0.19

Values in yellow cells not included in Net Underflow Between Index Cells calculation

Metered recharge
(no recharge facilities)

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Index Cell 27

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	176,405	176,405	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	0	0	0	0.00
Storage	22,556	22,507	49	0.41
Flows Between Index Cells Index Cell Number				
Index Cell 21	19,960	19,971	-11	-0.10
Index Cell 26	6,159	6,156	2	0.02
Index Cell 28	287,086	287,079	7	0.06
Index Cell 30	1,656	1,656	0	0.00
Index Cell 31	81,054	81,052	2	0.02
Net Underflow Between Index Cells				0.01
Metered recharge (no recharge facilities)				

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Index Cell 28

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	378,749	378,749	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	0	0	0	0.00
Storage	42,075	42,065	10	0.09
Flows Between Index Cells Index Cell Number				
Index Cell 21	0	0	0	0.00
Index Cell 22	0	0	0	0.00
Index Cell 23	0	0	0	0.00
Index Cell 27	0	0	0	0.00
Index Cell 29	138,415	138,413	1	0.01
Index Cell 31	0	0	0	0.00
Index Cell 32	121,158	121,157	1	0.01
Index Cell 33	23,671	23,671	0	0.00
Net Underflow Between Index Cells				0.02
Metered recharge (no recharge facilities)				

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Index Cell 29

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	71,956	71,956	0	0.00
Stream	37,628	37,628	0	0.00
Recharge	0	0	0	0.00
ET	16,503	16,503	0	0.00
Storage	31,022	31,021	2	0.01
Flows Between Index Cells Index Cell Number				
Index Cell 23	0	0	0	0.00
Index Cell 28	68,870	68,870	0	0.00
Index Cell 33	147,233	147,233	0	0.00
Index Cell 34	28,074	28,074	0	0.00
Outside Basin Area	10,838	10,838	0	0.00
Net Underflow Between Index Cells				0.00
Metered recharge (no recharge facilities)				

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Index Cell 30

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	334,435	334,435	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	13,337	13,337	0	0.00
Storage	2	2	0	0.00
Flows Between Index Cells Index Cell Number				
Index Cell 25	0	0	0	0.00
Index Cell 26	84,067	84,071	-4	-0.03
Index Cell 27	0	0	0	0.00
Index Cell 31	133,795	133,795	0	0.00
Outside Basin Area	32,206	32,206	0	0.00
Net Underflow Between Index Cells				0.00
Values in yellow cells not included in Net Underflow Between Index Cells calculation				
Metered recharge (no recharge facilities)				

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Index Cell 31

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	166,316	166,316	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	10	10	0	0.00
Storage	11,938	11,934	4	0.03
Flows Between Index Cells Index Cell Number				
Index Cell 27	48,368	48,371	-4	-0.03
Index Cell 28	1,888	1,888	0	0.00
Index Cell 30	22,856	22,857	0	0.00
Index Cell 32	185,548	185,548	0	0.00
Index Cell 35	49,603	49,603	0	0.00
Index Cell 36	7,538	7,538	0	0.00
Outside Basin Area	0	0	0	0.00
Net Underflow Between Index Cells				0.00

Values in yellow cells not included in Net Underflow Between Index Cells calculation

Metered recharge
(no recharge facilities)

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Index Cell 32

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	267,745	267,745	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	0	0	0	0.00
Storage	31,963	31,962	1	0.01
Flows Between Index Cells Index Cell Number				
Index Cell 28	9,152	9,152	0	0.00
Index Cell 31	0	0	0	0.00
Index Cell 33	155,871	155,871	0	0.00
Index Cell 36	56,797	56,797	0	0.00
Net Underflow Between Index Cells				0.00
Metered recharge (no recharge facilities)				

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Index Cell 33

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	349,404	349,404	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	0	0	0	0.00
Storage	30,180	30,180	0	0.00
Flows Between Index Cells Index Cell Number				
Index Cell 28	0	0	0	0.00
Index Cell 29	0	0	0	0.00
Index Cell 32	0	0	0	0.00
Index Cell 34	73,359	73,359	0	0.00
Index Cell 36	0	0	0	0.00
Index Cell 37	48,751	48,751	0	0.00
Net Underflow Between Index Cells				0.00
Metered recharge (no recharge facilities)				

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Index Cell 34

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	28,180	28,180	0	0.00
Stream	100,021	100,021	0	0.00
Recharge	0	0	0	0.00
ET	11,417	11,417	0	0.00
Storage	7,210	7,210	0	0.00
Flows Between Index Cells Index Cell Number				
Index Cell 29	0	0	0	0.00
Index Cell 33	20,631	20,631	0	0.00
Index Cell 37	0	0	0	0.00
Index Cell 38	41,100	41,100	0	0.00
Outside Basin Area	39,827	39,827	0	0.00
Net Underflow Between Index Cells				0.00
Metered recharge (no recharge facilities)				

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Index Cell 35

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	42,343	42,343	0	0.00
Stream	542	542	0	0.00
Recharge	0	0	0	0.00
ET	5,604	5,604	0	0.00
Storage	3,506	3,506	0	0.00
Flows Between Index Cells Index Cell Number				
Index Cell 31	169,972	169,972	0	0.00
Index Cell 36	143,555	143,555	0	0.00
Outside Basin Area	116,966	116,966	0	0.00
Net Underflow Between Index Cells				0.00
Metered recharge (no recharge facilities)				

City of Wichita
2007 ASR Accounting

Index Cell 36

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	119,141	119,141	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	146	146	0	0.00
Storage	13,689	13,689	0	0.00
Flows Between Index Cells Index Cell Number				
Index Cell 31	0	0	0	0.00
Index Cell 32	95,044	95,044	0	0.00
Index Cell 33	7,312	7,312	0	0.00
Index Cell 35	0	0	0	0.00
Index Cell 37	81,558	81,558	0	0.00
Outside Basin Area	74,944	74,944	0	0.00
Net Underflow Between Index Cells				0.00
Metered recharge (no recharge facilities)				

City of Wichita
2007 ASR Accounting

Index Cell 37

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	91,249	91,249	0	0.00
Stream	0	0	0	0.00
Recharge	0	0	0	0.00
ET	2	2	0	0.00
Storage	21,260	21,260	0	0.00
Flows Between Index Cells Index Cell Number				
Index Cell 33	39,247	39,247	0	0.00
Index Cell 34	142	142	0	0.00
Index Cell 36	0	0	0	0.00
Index Cell 38	24,485	24,485	0	0.00
Outside Basin Area	52,519	52,519	0	0.00
Net Underflow Between Index Cells				0.00
Metered recharge (no recharge facilities)				

City of Wichita
2007 ASR Accounting

Index Cell 38

Flows Within Index Cell	Outflow rate with ASR (ft^3/day)	Outflow rate without ASR (ft^3/day)	Outflow rate change due to ASR (ft^3/day)	Outflow change due to ASR (AF/year)
Well	8,910	8,910	0	0.00
Stream	50,112	50,112	0	0.00
Recharge	0	0	0	0.00
ET	8,778	8,778	0	0.00
Storage	11,242	11,243	0	0.00
Flows Between Index Cells Index Cell Number				
Index Cell 34	2,093	2,093	0	0.00
Index Cell 37	0	0	0	0.00
Outside Basin Area	51,487	51,487	0	0.00
Net Underflow Between Index Cells				0.00
Metered recharge (no recharge facilities)				

APPENDIX B - GROUNDWATER PUMPING

No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED
1	97.57825	37.979678	103.298747	91	97.868866	37.958316	58.1676901	181	97.379566	37.829389	0
2	97.468102	37.894142	134.923631	92	97.712344	38.32196	106	182	98.02863	37.9965792	0
3	98.036256	37.962592	55.9028513	93	97.660555	37.952304	44.4681772	183	98.105655	38.1582005	124
4	97.653835	38.294696	118.544979	94	97.665463	38.235645	118	184	97.624659	37.7938196	36.4154169
5	97.44488	37.875853	95	95	97.72022	38.260616	92.8031524	185	97.479282	37.7849202	4.12811377
6	97.69738	37.932035	138	96	97.837845	37.832951	0	186	97.458876	37.735311	0
7	97.670111	37.966931	1.83333333	97	97.374499	37.8426792	12.0509067	187	97.706132	37.9742346	0
8	97.452008	38.3079431	34	98	97.43848	38.3081004	82.9642996	188	97.485303	37.747783	0
9	97.917536	38.0424655	1106.80342	99	97.66028	38.1696892	79.5	189	97.944519	38.0944604	3.75631807
10	97.728429	37.912255	18.7815904	100	97.735275	38.322431	116	190	97.795274	37.996848	7.57966064
11	97.633047	38.0413739	44	101	97.4128	37.8865657	160	191	97.655731	37.861303	89
12	97.55511	38.009347	0	102	97.578347	37.952632	57.655186	192	98.03632	38.1554239	104.709514
13	97.707777	38.377695	80	103	97.485041	37.755076	163.144075	193	97.624227	38.163026	109.191011
14	97.646129	37.874078	257.786534	104	97.5779	37.8943466	128	194	97.710419	37.8906288	97
15	97.697005	38.109339	50.5725009	105	97.576722	37.782776	44	195	97.49567	37.850416	136
16	97.719891	38.124791	71.4845129	106	97.92614	37.974789	29.2560096	196	98.128235	37.9448695	149.473225
17	97.578449	38.1414008	0	107	97.91848	37.9625298	0	197	97.610706	38.1539685	0
18	97.578449	38.1404095	0	108	97.925982	37.9451988	0	198	97.770154	37.916824	0
19	97.928789	37.791339	2.76199858	109	97.646549	37.902457	67.0244989	199	97.948105	37.999542	155.005509
20	97.970561	37.781182	68	110	97.61497	37.934004	58	200	98.045311	37.933559	114.017143
21	98.020135	37.786308	0	111	97.678432	37.906853	8.12027583	201	98.123212	37.9251822	0
22	97.650651	37.9305273	13	112	97.497767	37.937668	34.8978521	202	98.114473	37.9486147	0
23	97.622987	38.1331966	0	113	98.046579	38.11795	80	203	98.10381	37.9192093	69
24	98.063249	38.1699993	195	114	97.626079	37.8561675	3	204	98.104746	37.9192093	0
25	97.775198	37.908251	0	115	97.710986	38.235558	0	205	98.113776	37.8951011	60
26	97.883402	38.0085844	24.1889698	116	97.624145	37.945512		206	98.040503	37.9486097	0
27	97.8951	38.0443688	0	117	98.031759	37.785177	109.678964	207	97.66236	38.3186523	118
28	97.922882	38.0728	0	118	98.041045	37.787976	140.060948	208	98.013838	38.0679492	19.902348
29	97.946091	38.072357	0	119	98.070469	37.81429	0	209	97.422758	38.3258957	0
30	97.936867	38.070606	646.399735	120	97.476215	37.770057	13.01822	210	97.454224	37.7921773	58.1666667
31	97.927023	38.0336259	0	121	97.378024	37.798217	0	211	97.710801	37.9741302	51
32	97.876881	38.0887614	0	122	97.623471	37.857579	0.988457915	212	97.77037	37.9596893	134
33	97.733821	38.2481963	0	123	97.7705	37.987854	0	213	97.765968	37.954893	29
34	97.724521	38.232052	0	124	97.458371	37.981283	59.5873574	214	98.063299	37.7951101	0
35	97.5139	37.867249	54.50528	125	97.988893	38.101664	28.193254	215	97.50403	37.798457	38.9678104
36	97.468483	37.843385	195.77046	126	97.825072	37.9449165	102.276807	216	97.522168	37.822471	0
37	97.527595	37.865352	76.0383734	127	97.825072	37.944436	0	217	97.522167	37.822675	0
38	97.467881	37.850315	75.9601781	128	97.899877	37.951889	0	218	97.814042	38.162669	1.20883471
39	97.485046	38.0359875	0	129	97.891645	37.9882394	109	219	97.733071	37.8943987	80
40	97.484553	38.0366274	90	130	97.825142	37.9520839	0	220	97.925117	37.7513853	0
41	97.688013	37.9089036	182	131	97.893936	37.9506737	49.973761	221	97.669954	37.9815626	17
42	97.58329	38.2206723	0	132	97.998147	38.0752038	0	222	98.055076	37.959343	118.839592
43	97.550995	38.195896	45.5729766	133	97.65967	38.156741	54.0010618	223	97.532144	37.9305761	84
44	97.943466	38.047314	16.1365164	134	97.788925	37.981548	139	224	97.481355	37.9926694	0
45	97.550455	37.9230607	43	135	97.815939	37.9812416	0	225	97.428981	37.9633625	91.990511
46	97.722824	38.404961	0	136	97.949991	37.9480991	11	226	97.503902	37.7816102	0
47	97.481653	37.9304464	73	137	97.958761	37.9435741	185	227	97.595284	38.111397	23.2560281
48	97.477071	37.937691	92	138	97.95362	37.9880919	149	228	97.832624	38.0967483	0
49	97.513455	37.790691	41	139	97.68392	38.10893	123.927807	229	97.605481	37.945125	0
50	97.513455	37.790691	0	140	98.081802	37.839081	142.166667	230	97.732481	38.2210195	32
51	97.983176	37.8080608	9	141	97.454615	38.3037981	16.6689683	231	97.692803	37.930674	83
52	97.731534	37.995824	0	142	97.550369	38.017731	64.3333333	232	97.849692	38.004744	0
53	97.73018	37.995552	0	143	97.635431	37.9632737	0	233	97.449705	37.9265569	64.8455889
54	97.728685	37.994979	0	144	97.64195	37.8577969	83	234	97.596313	37.901437	135
55	97.730438	37.994605	0	145	97.577705	38.1336021	0	235	97.610115	38.2191948	20
56	97.634209	37.9087627	58	146	97.579686	38.1334373	0	236	97.74324	37.9383527	18
57	97.541498	37.8725209	130.699614	147	97.395761	37.8313511	0	237	97.857276	38.0173789	117
58	97.64175	37.8977758	34	148	97.601512	37.814137	165	238	97.857276	38.0176535	0
59	97.685429	38.3621194	494.864217	149	97.601512	37.814137	0	239	97.857276	38.0165551	0
60	97.677329	38.3837289	347.505455	150	97.568834	37.9595419	151	240	97.474166	37.7275775	2.83902765
61	97.685342	38.3563392	408.689861	151	97.530634	38.054248	0	241	97.898429	37.9809808	0
62	97.693749	38.3481289	470.616938	152	97.738647	38.2198263	75	242	97.86745	37.9376472	2.05554072
63	97.489928	37.9803478	28.1294211	153	97.578188	37.988722	0	243	97.698642	38.314964	97.1615861
64	97.747995	37.9850466		154	97.66648	37.934224	0	244	97.570429	38.1318998	0
65	97.66725	38.346404	0	155	97.609912	37.8875911	86	245	97.569935	38.1318778	72.3008369
66	97.678497	38.3452254	981	156	97.66464	37.857701	478.746421	246	97.689979	38.2859207	83
67	97.462918	38.003749	135.294966	157	98.055437	37.809074	152.278188	247	97.535043	38.1973884	0
68	97.459378	38.004902	196.432725	158	98.054631	37.8216113	141.193674	248	97.988188	37.8084095	0
69	97.50947	37.961401	40.6351369	159	98.062848	37.8286699	117.588407	249	97.735526	38.40944	56
70	97.84499	38.0943181	35.5067807	160	98.047791	37.8197714	88	250	97.393402	37.84581	0
71	98.031754	37.780776	8.51370719	161	97.991082	37.7993888	0	251	97.762341	38.0608758	0
72	98.119553	38.162964	43.0411446	162	97.706271	37.887148	74.9422282	252	97.772555	38.0596209	0
73	97.608279	37.838133	20.3651362	163	97.595678	38.155284	0	253	97.771916	38.0594451	0
74	97.658728	38.141389	124	164	97.489182	38.2246516	0	254	97.509755	37.8142592	0
75	97.878935	37.9697258	0	165	97.49706	38.2152587	12.8742892	255	97.938843	38.0228268	0
76	97.688511	38.155805	0	166	98.137096	37.919173	114.227055	256	97.749637	38.361938	0
77	97.670037	38.161281	48.0311553	167	97.518345	37.861564	59.1620096	257	97.993078	38.082379	0
78	97.688208	38.264013	78.4131397	168	97.650572	38.155623	73.6858257	258	97.910096	37.9594569	0
79	97.423302	38.2783956	8.87951855	169	98.006321	38.095219	0	259	97.988584	37.7721015	160
80	97.664916	38.190091	79.1343283	170	97.567961	38.017603	0	260	97.949754	37.737378	243.147942
81	97.637975	38.199671	74.0451924	171	97.706222	37.937892	135.365551	261	97.936254	37.7411798	147
82	97.572109	37.8065775	80	172	97.478676	37.775207	33.033503	262	97.785511	38.466593	0.277384449
83	97.463237	37.835648	43.0135246	173	97.710959	37.9914802	0	263	97.702006	38.4505566	17.3708229
84	97.463391	37.832067	38.5544313	174	97.822739	38.0633854	0	264	97.74927	38.39868	0
85	97.503126	37.8369244	166	175	97.821638	38.0643658	0	265	97.499557	37.897487	251.691724
86	97.575756	37.8344618	0	176	97.394553	37.799787	82.7863042	266	97.510285	37.897581	551.709217
87	97.95201	37.9842803	327.762996	177	97.609647	38.0137243	0.939337304	267	97.610362	37.984417	935.215789
88	97.557747	37.8071267	73.740145	178	97.296272	37.6190436	3.32306484	268	97.472135	37.882719	447.591077
89	97.742912	37.983354	0	179	97.70765	38.2146113	39	269	97.586293	37.9584834	0
90	97.646791	38.2824749	0	180	97.757725	38.047738	3.06888731	270	97.572657	38.020766	350.086389

No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED
271	97.572723	38.006137	212.127629	361	97.536602	38.1470958	192.336375	451	97.342068	37.7684688	92.1556171
272	97.508597	37.927359	334.950637	362	97.491132	37.879933	0	452	97.614555	38.032328	74.9166667
273	97.807368	37.974271	0	363	97.89047	38.077821	1.7957901	453	97.632934	37.996034	79.6348638
274	97.807298	37.974271	0	364	97.884862	38.0473777	173.149691	454	97.952116	38.1165619	5.79467303
275	97.779549	38.024689	133	365	97.918251	38.049282	0	455	98.086976	37.9410282	110.479943
276	98.023712	37.759827	92	366	97.909241	38.065704	0	456	97.756025	37.908973	103.114614
277	97.680259	38.394761	59.6666667	367	97.449887	37.86151	60.7639688	457	97.683301	37.8887701	76
278	97.971571	38.034349	0.000957493	368	97.495057	38.017472	0	458	97.64195	37.8577969	0
279	97.674336	37.9172047	0	369	97.688013	37.9089036	0	459	97.48545	37.784096	1.95551034
280	97.399997	37.7762591	0	370	97.735826	38.33286	137	460	97.723651	38.199057	64.2962581
281	97.901338	38.0690132	108.317912	371	98.054372	37.828303	0	461	97.669952	38.15756	131.549696
282	97.642212	37.992418	80	372	98.049042	37.825525	131.314619	462	97.651587	38.0469997	134.333333
283	97.625611	37.7963791	0	373	97.605503	37.795134	105.066426	463	97.669779	38.1389086	119.333333
284	97.466836	37.7524008	0	374	97.510641	37.7552436	34.0683318	464	97.668596	38.143081	47.6905089
285	97.385349	37.8322744	8.75246662	375	97.597912	37.9073905	9	465	97.53194	38.0394661	0
286	97.987579	37.7926002	96	376	97.65136	37.901484	64.3611958	466	97.941307	38.161949	0
287	98.040589	38.1043204	23.002538	377	97.440612	37.9194898	85	467	97.56879	37.8867915	94
288	98.024719	38.1048125	0	378	97.739695	38.395884	82	468	97.577561	38.0521991	28.9162838
289	98.022672	38.1007758	8.11874139	379	97.672325	38.36668	8.07117363	469	97.898142	38.035063	0
290	97.670452	38.235429	117	380	97.672325	38.368492	0	470	97.472721	37.9072594	51.4428374
291	97.441427	37.901689	68	381	98.015045	37.9917598	0	471	97.762475	37.901402	142
292	97.513973	37.9510964	108	382	97.952129	38.0413997	690.523828	472	97.96491	37.8855908	0
293	97.509153	37.9510579	172	383	97.66725	38.344621	625	473	97.990431	37.799386	130.931315
294	97.623703	38.02504	76	384	97.462918	38.000947	167.42192	474	97.98978	37.7993805	0
295	97.527987	38.0074551	21	385	98.082301	38.1431712	0	475	97.664898	38.0234667	5.3705528
296	97.991714	38.0679424	125	386	98.08374	38.1442889	0	476	97.489652	38.2246296	10.458768
297	97.991714	38.0687196	0	387	98.082301	38.1431712	23.7132923	477	97.496295	38.2157667	0
298	97.992696	38.0679424	0	388	98.087482	38.1727953	0	478	97.670232	37.9022421	0
299	97.596575	38.2320735	23	389	97.567192	37.893676	85.1666667	479	97.703539	38.311338	78.6807467
300	97.604514	38.1165462	59.2295252	390	97.340077	37.7956028	71.6278299	480	97.484927	37.773003	121.647624
301	97.4577	38.322161	51	391	97.628107	37.918666	91.2564332	481	97.715384	37.937892	92.7801357
302	97.924771	38.015235	0.262362245	392	97.846439	38.0936096	0	482	97.488001	38.1087112	0
303	97.728476	37.8851991	53	393	98.019194	37.779434	0	483	97.60965	38.0289443	1.23030465
304	97.664991	37.987801	65	394	97.658125	38.148529	0	484	97.610522	38.0430695	2.14373134
305	97.624027	37.99589	188.434591	395	97.65637	38.144695	99.75	485	97.6331	37.945124	181.92364
306	97.595101	37.8500088	0	396	97.729173	38.130643	65.0533526	486	97.532559	37.829079	0
307	97.496389	37.864905	83	397	97.675319	38.1122188	67.0855698	487	97.724593	37.957973	0.508361183
308	97.422178	37.854114	29.9508057	398	97.68909	38.199228	86.4689689	488	97.707902	38.3585716	23
309	97.517106	37.762483	39.8303089	399	97.66941	38.193221	64.5693891	489	97.412997	37.808775	83.117744
310	98.057509	37.8355189	167	400	97.458752	37.828559	0	490	97.380608	37.827743	0
311	97.993313	38.0872086	0	401	97.575756	37.8344618	54	491	97.632173	38.2957145	0
312	97.856808	38.0794925	0	402	97.545373	37.811312	32.3153834	492	97.522456	38.0616694	91
313	97.476361	37.79536	0	403	97.736095	37.9870607	0	493	98.032869	37.9894304	0
314	97.417264	37.78511	70	404	97.615908	38.2285711	0	494	97.410337	37.8000804	0
315	97.830054	38.029739	0	405	97.614288	38.2425664	60	495	97.690639	37.9976496	0
316	97.831442	38.0286406	0	406	97.614288	38.2425664	0	496	97.533071	37.797568	84.4066767
317	98.08974	38.14135	0	407	97.607013	38.143932	80.4293987	497	97.934099	37.9885308	0
318	98.088082	38.1426159	0	408	97.665389	38.232123	145.833525	498	97.632541	37.8764127	74.758095
319	97.550186	38.032355	132.24173	409	97.695394	38.2740787	2.58707201	499	97.758893	38.405974	69
320	97.568435	38.075829	135.006491	410	97.742396	37.8795839	0	500	98.105655	38.1582005	0
321	97.980795	37.8939124	112	411	97.381655	37.8393128	0	501	97.567726	37.7719793	0
322	97.981335	37.9252777	0	412	97.38086	37.8450492	252.725939	502	97.724162	37.894341	48.2263366
323	97.981335	37.9246598	0	413	97.495625	37.894242	93.4476187	503	97.609506	38.1087659	67
324	97.518728	37.860436	50.0750343	414	97.541624	37.9559419	97	504	97.610027	38.1087659	0
325	97.509661	37.857853	37.4747968	415	97.575784	38.093691	90.225287	505	97.608985	38.1087659	0
326	97.705983	37.996058	0	416	97.582605	37.879586	73	506	97.724557	37.9377626	74
327	97.913078	38.0118601	0	417	97.559592	37.8830789	81	507	97.713111	38.1073865	72.4834357
328	97.703589	38.289531	77.7778801	418	97.559592	37.8758291	53	508	97.713111	38.1073865	0
329	97.514526	37.96303	143	419	97.57338	37.8831888	2	509	97.95865	37.9539709	0
330	97.614556	37.980785	86	420	97.861938	37.973705	0	510	97.95865	37.9534217	0
331	97.441873	37.843151	125.578869	421	97.908092	37.96786	132	511	98.045476	38.1335413	117.542681
332	97.707807	38.351288	0	422	97.655769	37.954146	29.4613182	512	97.550576	37.8869	78.0724933
333	97.669943	37.974315	544.5	423	97.587261	37.894228	82.8599575	513	97.467624	37.8722967	37.2986426
334	97.444713	37.833887	46	424	97.688143	37.928844	46.4015762	514	98.10875	38.1322948	0
335	97.451311	38.3078882	14.1651246	425	97.683336	37.912153	13.8099929	515	98.109296	38.1322481	0
336	97.77047	38.024674	75	426	97.614739	37.928688	60	516	98.128131	37.9512185	0
337	97.551661	37.797918	100	427	97.627266	38.032819	0	517	98.031659	37.9227399	159
338	97.609877	38.0998019	501	428	97.58512	38.212821	94.4130906	518	98.049104	37.947902	167.165361
339	97.850677	38.085089	3.56788839	429	97.578501	38.2137299	53.7270102	519	98.123212	37.9264179	115.422079
340	97.568985	37.937686	106	430	97.558755	38.179327	24.673854	520	97.962209	37.9758665	0
341	97.702255	38.417595	90	431	97.990534	38.0969406	12.637678	521	98.113776	37.8914624	62
342	97.744637	38.423908	79	432	97.889427	37.966317	0	522	98.040503	37.9491589	84
343	97.735431	38.389421	44	433	97.893936	37.9506737	0	523	98.040503	37.9497081	0
344	97.581444	37.846142	0	434	97.825072	37.9449165	0	524	98.0407	37.9380918	0
345	97.644289	37.870375	44.3116639	435	97.891645	37.9882394	0	525	97.650673	38.1267033	48
346	97.399109	37.814285	172.385538	436	97.880198	37.96664	82.5285176	526	97.542119	37.8950456	27
347	97.40361	37.799946	118.633363	437	97.79867	37.98108	102	527	97.607211	38.166226	0
348	97.713345	38.172632	135.255071	438	97.802634	37.994563	0	528	98.013823	38.067983	0
349	97.710681	38.149241	133.510715	439	97.782232	37.9938809	154	529	98.013838	38.0679492	0
350	97.619351	38.1380296	73.6072622	440	97.80697	37.9812407	97	530	97.422758	38.3258957	91.6323719
351	97.579099	38.1409065	57.4587772	441	97.807099	37.9960064	109	531	97.678971	37.952338	96
352	97.615036	38.185023	100.398648	442	97.79573	37.9430307	42	532	97.747995	37.9850466	42
353	97.541049	37.8212814	96	443	97.958761	37.9438405	0	533	97.990423	37.7837007	0
354	97.549052	37.8225995	97	444	97.950737	37.9551841	86	534	97.527268	37.824431	13
355	97.57798	38.003135	88.3765893	445	97.955709	37.9953196	0	535	97.527389	37.8126185	49.5833333
356	97.545754	38.0793623	0	446	97.954745	37.9953114	62	536	97.465562	38.3155089	0
357	97.514009	38.04612	0	447	97.964181	37.947718	0	537	97.464904	38.3158494	0
358	97.783145	37.905323	108.288758	448	97.972377	37.9755617	0	538	97.737359	38.2148405	0
359	97.429039	37.926366	18.0263372	449	97.87621	38.04779	0.044145944	539	97.960004	37.773201	152
360	97.524341	38.1447312	174.846786	450	97.80782	37.94024	0.209175359	540	98.055033	37.966466	166.916781

No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED
541	97.39898	37.8247914	110	631	97.623567	37.8796673	0	721	97.71522	37.9888	0
542	97.39898	37.8247914	0	632	97.413371	37.7561947	0	722	97.675612	38.271513	85.5298894
543	97.4814	37.9934987	149.163882	633	97.997393	37.7774503	144	723	97.615054	38.2358937	88
544	98.007699	37.8143007	0	634	97.517775	37.788058	366.139739	724	97.615639	38.146361	84.5171566
545	97.78886	37.9375611	21.3441113	635	97.51682	37.772532	971.482552	725	97.698904	38.271406	109.375144
546	97.596768	38.109913	44.9929569	636	97.526053	37.785277	343.925401	726	97.742351	37.887229	0
547	97.516625	38.1165285	150.660885	637	97.525703	37.772654	135.27508	727	97.706296	38.22844	67.0244989
548	97.834327	38.0883866	0	638	97.579994	37.93194	73	728	97.43848	38.3081004	0
549	97.832972	38.0967483	0	639	97.830748	38.0291898	74	729	97.54152	37.9612694	50
550	97.86644	38.0652993	66.2655631	640	97.502895	37.776443	3.70782965	730	97.538329	37.9616538	5.95810662
551	97.870939	38.092691	1.02991858	641	97.98119	37.8939509	0	731	97.531591	37.8206703	69
552	98.002508	38.105821	35	642	97.980098	37.89383	0	732	97.578036	37.88699	150
553	97.541335	37.9375653	90	643	97.458748	37.850261	176.325989	733	97.926204	37.978669	161.300717
554	97.624939	37.896965	67	644	97.532487	37.872619	179.180055	734	97.918702	37.9626616	14
555	97.419932	37.7767962	0	645	97.473526	37.8010931	0	735	97.651428	37.9487503	18
556	97.738629	37.9340688	49	646	97.945496	38.1655868	19.6621155	736	97.687958	37.916075	55.1018717
557	97.683221	37.928773	37	647	97.708891	37.9703696	0	737	97.678094	37.911054	7.04309638
558	97.614967	38.1921869	68	648	97.9145	38.0131508	0	738	97.945698	38.1076432	64.0722293
559	97.655977	38.0195673	0	649	97.91693	38.0122171	0	739	97.614925	38.177783	61.7945012
560	97.706841	38.435799	65	650	97.920695	38.0003128	0	740	97.653844	37.8976659	120
561	97.472571	37.7239503	4.39986374	651	97.921441	38.001771	51.9166667	741	97.707702	38.27865	147.306591
562	97.474736	37.7312149	0.740522509	652	97.53229	37.865435	85	742	97.442302	37.870486	50.8115673
563	97.623714	37.8434229	0	653	97.523445	37.9440644	188	743	97.614681	37.944793	113
564	98.093309	37.9652207	0	654	97.66514	38.0576298	0	744	98.073881	37.822829	28.223636
565	97.565261	38.0855212	0	655	97.670106	38.017946	15.5782858	745	97.469589	37.771451	0
566	97.761323	37.9779677	79	656	97.446198	38.357872	38.2970744	746	97.468897	37.77118	0
567	97.989711	37.8084095	0	657	97.448933	38.3592961	52.5426038	747	97.480419	37.7447603	11.4939037
568	97.602069	37.977921	0	658	97.926863	38.0116704	35.4166667	748	97.480952	37.7390465	114.020212
569	97.376317	37.7891773	0	659	97.546937	37.797447	180	749	97.684194	38.233188	1057.10524
570	97.765918	38.0653519	0	660	97.557954	37.801162	155	750	97.825072	37.9453971	0
571	97.761299	38.0616996	0	661	97.612148	38.1002566	20	751	97.900875	37.951661	0
572	97.761299	38.060052	0	662	97.609877	38.0998019	0	752	97.993347	38.075115	59
573	97.58317	38.1268538	0	663	97.702263	38.412163	56	753	97.650628	38.148431	0
574	97.5917	38.134181	93.7704656	664	97.660083	37.843095	12.4513965	754	97.823634	37.96539	34
575	97.749456	38.361938	0	665	98.0379	38.1682097	0	755	97.779063	37.8961622	195
576	97.749745	38.376516	0	666	97.399172	37.807465	150.957953	756	97.95874	37.9444007	0
577	97.451533	37.7574352	0	667	97.719677	38.1737	134.894476	757	97.958781	37.9432913	0
578	97.451533	37.7576192	0	668	97.522485	37.768904	0	758	97.95378	37.9953004	0
579	97.614745	37.9377547	76	669	97.540697	37.7936184	0	759	97.898445	37.9928281	130
580	97.735572	38.438617	83.771417	670	97.655471	37.9288	30	760	97.973487	37.9768908	0
581	97.781621	38.4663011	70.3238597	671	97.58748	38.145002	0	761	97.889329	37.9807996	125
582	97.763275	38.4386836	54.7388223	672	97.536602	38.1470958	0	762	97.889329	37.9807996	0
583	97.743062	38.402324	46	673	97.491185	37.865065	111.080218	763	97.675319	38.1122188	99.4359385
584	98.111015	37.9457834	0	674	97.706188	37.952443	49.2004014	764	97.698971	38.300721	105.305799
585	98.109628	37.9458658	0	675	97.936699	38.058369	0	765	97.454615	38.3037981	0
586	97.536387	37.951174		676	97.961126	38.0856602	507.164317	766	97.724596	37.967058	119.318339
587	97.462955	37.869232	407.882744	677	97.976301	38.129917	568.173797	767	97.701574	38.221816	126.477439
588	97.481547	37.891085	323.841265	678	97.918251	38.049282	84.4465722	768	97.481124	38.0515291	111.319806
589	97.544684	37.927303	855.802192	679	97.518398	37.865473	59.1242623	769	97.416321	37.851295	175.294843
590	97.508369	37.792601	0	680	97.58329	38.2206723	153	770	97.438519	38.341133	0
591	97.554506	37.977072	520.857693	681	97.60696	38.156528	31.4867838	771	97.733944	37.97434	110
592	97.490056	37.91268	330.457786	682	97.449676	38.3516926	120.433572	772	97.617091	37.8213289	18.2003431
593	97.500665	37.920123	470.377565	683	98.029308	37.8155354	43.4870539	773	97.679201	37.9597249	78
594	97.572355	37.999966	179.652663	684	97.459461	37.931002	58	774	97.68938	38.248865	0
595	97.572676	37.978465	323.301141	685	97.523367	37.923172	100	775	97.585458	38.1326135	3.22632123
596	97.841165	37.986601	63	686	97.486481	38.184769	0	776	97.568769	37.943315	41
597	97.807385	37.974271	0	687	97.724764	38.122954	83.6666667	777	97.53194	38.0394661	136.033954
598	97.457544	37.7544501	9.8858067	688	97.614637	37.836149	121.086018	778	97.666099	37.934243	0
599	97.999417	38.1270266	10	689	97.61462	37.923209	0	779	97.664495	37.9378952	0
600	98.025719	37.825523	0	690	97.605408	37.9092195	360.198373	780	97.692611	37.926853	20.9644899
601	97.975543	38.0294363	2.33407907	691	97.628198	37.9004333	139	781	97.550537	37.952375	92
602	97.974391	38.0310592	0.570190056	692	98.020273	37.99004	29.3287423	782	97.582964	37.9685698	58
603	97.974335	38.0319709	0	693	97.667249	38.341329	1087	783	98.04992	37.809811	194.426594
604	97.695956	38.1189719	96	694	97.456948	38.011575	175.234386	784	98.090389	37.9449013	0
605	98.064004	37.7910762	0	695	97.457885	38.008856	107.656567	785	97.454057	37.841644	16.2405517
606	98.064789	37.7905791	143.827087	696	97.727676	38.266933	33.9725826	786	97.930775	38.071663	22.5747351
607	97.862609	38.0807695	2.17780519	697	97.577884	37.901289	99.6750048	787	97.472527	37.910811	25
608	97.429158	37.7920703	0	698	97.341411	37.8029113	198.569285	788	97.568825	38.039711	83531
609	97.995264	38.1456874	60	699	97.34646	37.8029525		789	97.388794	37.853058	0
610	97.665285	38.25379	102.903474	700	97.980743	38.117592	0	790	97.715402	37.923401	33
611	97.901338	38.0690324		701	97.628193	37.91551	0	791	97.495485	37.84679	0
612	97.760636	37.956901	0.175847243	702	97.734589	38.274185	51.5573069	792	97.509367	37.854264	0
613	97.907814	37.9534567	0	703	97.844705	38.0951364	0	793	97.518344	37.861482	0
614	97.839237	38.0273172	0	704	97.844705	38.0951364	18.8754983	794	97.518241	37.861564	0
615	97.837801	38.006698	0	705	98.025107	37.779855	0.883839546	795	97.731567	38.184562	52.4779731
616	97.664666	38.186709	0	706	97.424903	37.894282	1.10479943	796	98.006063	38.094904	0
617	97.509394	38.0278764	42	707	97.878935	37.9697258	12.5179914	797	98.004612	37.7552695	0
618	97.513792	38.0247788	1.08333333	708	97.87375	37.9697999	0	798	97.958669	37.7518391	110
619	97.602142	38.1742738	0	709	97.541043	37.7796952	1.24903714	799	97.551911	38.022862	5.44586329
620	97.598136	38.1176446	81	710	97.717168	38.358698	0	800	97.488456	37.778873	73.6532955
621	97.696779	38.241686	0	711	97.683363	38.173612	112.33662	801	97.494962	38.1156148	0
622	97.993022	38.0131131	39.101307	712	97.688511	38.155805	94.8264698	802	97.559624	38.0904478	124.987801
623	97.997582	38.0119329	0	713	97.60981	38.031945	0	803	97.756569	37.995206	0
624	97.573471	38.2185402	85.0158508	714	97.651476	37.9924337	0	804	97.66201	38.286213	90.752215
625	97.73409	38.2526311	46	715	97.704479	37.865111	72.9167626	805	97.527165	38.05245	0
626	97.439871	38.3285613	0	716	97.680003	38.253335	144.928203	806	97.549837	37.935331	81
627	97.894064	38.071692	259.330185	717	97.742869	38.3682006	29.0833333	807	97.627184	37.8592432	0
628	98.082035	37.8848824	156	718	97.486175	37.999657	36	808	97.990715	38.051507	0
629	97.655688	37.844027	24.3055875	719	97.557747	37.8071267	0	809	97.970121	37.744594	96
630	97.653887	37.981721	0	720	97.736952	37.9870607	0	810	97.968112	37.751916	14.6603816

No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED
811	97.569798	37.7719793	0	901	97.509394	38.0278764	0	991	97.664266	37.8701247	0
812	97.624565	37.7946407	40.4203148	902	97.756689	37.9887003	62	992	97.749029	38.369065	2
813	97.424113	37.7850712	318.182237	903	97.598605	38.1183311	0	993	97.749029	38.369065	0
814	97.945311	38.0944302	3.8290507	904	97.569063	38.115896	28.2644522	994	97.670039	38.3446323	569
815	97.946058	38.09694	1.29537734	905	97.624084	38.1778149	73	995	97.464134	37.994959	165.845126
816	97.697229	37.8941592	0	906	97.439871	38.3285613	71	996	97.645887	37.9421898	144.795934
817	98.064052	37.798594	141.284513	907	97.603264	37.8218539	61.1933061	997	97.8468	38.0906164	0
818	97.616752	38.159729	73.5059889	908	97.512465	37.8238105	0	998	97.650459	38.1377669	83.1637773
819	97.540971	37.887181	92.0666194	909	97.447998	37.7659073	0	999	97.753937	38.278683	0
820	97.50493	37.858058	54	910	97.476096	37.7407096	0	1000	97.688419	38.1629706	107
821	98.128165	37.9520066	0	911	97.471386	37.7372878	0	1001	97.724728	38.155605	91.477393
822	98.040578	37.933655	44.0084579	912	97.426801	37.8150577	0.057019926	1002	97.559595	37.981404	44.3576972
823	98.040428	37.95375	69.6916689	913	97.568882	37.9304637	105	1003	97.670719	38.196102	90.1230931
824	98.040427	37.955233	65.2089452	914	97.519949	37.792558	0	1004	97.568469	37.803109	15
825	98.114473	37.9499877	159.220318	915	97.856728	38.0813708	0.88366462	1005	97.57664	37.8052907	0
826	98.040637	37.9242283	137	916	97.687203	37.9379341	102	1006	97.575766	37.839552	30.305876
827	98.009403	38.1331868	72	917	97.519358	37.9160487	238.894464	1007	97.575766	37.839552	0
828	97.532366	38.169801	81	918	97.458108	37.865561	136.675843	1008	97.956499	37.9842501	294.308135
829	97.60323	38.1904791	128.056382	919	97.944157	38.1643511	13.9615959	1009	97.733841	37.9597502	62
830	97.739701	38.3697011	0	920	97.705845	37.996032	0	1010	97.716969	37.9888	0
831	97.425554	37.966735	25.8891334	921	97.917207	38.0098829	17	1011	97.615054	38.2358937	0
832	97.990423	37.7820804	0	922	97.918162	38.0098829	0	1012	97.62523	38.1403006	53
833	97.532578	37.894231	57	923	97.570641	38.164169	79.1904889	1013	97.697237	38.124341	0
834	97.523336	37.89604	74	924	97.53229	37.865435	0	1014	97.67901	37.99434	0
835	97.522168	37.822607	0	925	97.624084	38.257495	64.6528628	1015	97.695394	38.2740293	2.93385627
836	97.50403	37.798457	0	926	97.660659	37.974952	0	1016	97.689802	38.181223	109.083333
837	97.464921	38.3159043	0	927	97.660321	37.9817612	20	1017	97.571087	38.096466	137.777696
838	97.925636	37.7509734	75.5682812	928	97.6146	37.894176	77.3359603	1018	97.579622	37.883131	119
839	97.960731	37.7726106	0	929	97.59145	37.9005794	111.518762	1019	97.568834	37.87947	121
840	97.398946	37.819634	0	930	97.513923	37.905083	108	1020	97.912399	37.9749414	67
841	97.578386	37.966793	116	931	97.702774	38.145706	0	1021	97.642253	37.904755	54.1351722
842	97.588068	37.966661	206	932	97.917691	38.039711	333.474502	1022	97.614691	37.908674	93.9079518
843	97.427039	37.9776024	123.225953	933	97.467091	37.748037	70	1023	97.632976	38.0104756	0
844	98.009648	37.8142705	0	934	97.549456	37.8012074	115	1024	97.572955	38.0322958	61.2734041
845	97.972119	37.7669204	0	935	97.454117	37.828475	130	1025	97.578988	38.203355	0
846	98.011388	37.9812198	29.3005085	936	97.481242	37.7946452	140	1026	97.454026	37.866865	51.2737417
847	97.832972	38.0964737	0	937	97.49789	37.9718404	0	1027	97.586804	37.93771	148
848	97.833319	38.0967483	0	938	97.548181	37.988568	77	1028	98.02166	37.794647	0
849	97.882572	38.079286	152.070732	939	97.596167	38.010446	169	1029	98.070347	37.8234613	79.5286803
850	97.747539	37.9412361	0	940	97.716966	38.402137	114	1030	97.615479	38.19959	65.810754
851	97.917128	38.0870972	0	941	97.716918	38.394919	50	1031	97.746083	38.280564	69.2270394
852	97.6147	38.054153	0	942	97.68957	38.275437	102.451734	1032	97.898878	37.952115	0
853	97.90765	37.9810707	86	943	97.40607	37.812433	0	1033	97.889427	37.966317	133.570251
854	97.585137	38.1545113	0	944	97.522755	37.979618	45.6282166	1034	97.999131	38.0744267	0
855	97.569445	38.1318531	0	945	97.680209	38.1342404	138.06924	1035	98.000114	38.0752038	0
856	97.536441	38.1974213	0	946	97.497332	37.791899	0	1036	97.788881	37.988821	0
857	97.977265	37.7526029	127	947	97.493007	37.7875051	67.8346852	1037	97.954118	37.9480854	22
858	97.569836	38.1194484	106	948	98.014397	37.7634129	0	1038	97.944603	37.9746387	0
859	97.892148	38.0486444	438.23984	949	97.581157	37.768575	9.68540836	1039	97.958761	37.9427613	0
860	97.696039	38.0392511	60.2637402	950	97.587138	38.006765	139.528803	1040	97.972932	37.9762263	0
861	97.696039	38.0392511	0	951	97.58443	37.790108	142	1041	97.967648	37.9412701	91.2427766
862	97.988957	37.8089615	109	952	97.61502	37.828942	138.365081	1042	97.944718	37.9808312	77
863	97.527689	37.8807608	27	953	97.605539	37.8288095	74.9520486	1043	97.338785	37.768645	69.6453287
864	97.858389	38.0811951	0	954	97.622776	37.806761	170	1044	98.056162	37.9520798	0
865	97.807139	38.0029988	0	955	97.540697	37.7936184	62	1045	98.109712	37.9374894	92.0666194
866	97.938843	38.0234666	0	956	97.577666	37.790145	128.248801	1046	98.086976	37.9410282	0
867	97.938843	38.0227801	0.61315141	957	97.475565	38.0420976	0	1047	97.773077	37.92146	80.4109854
868	97.58244	38.1268538	140.157004	958	98.063934	38.155387	91	1048	97.568283	37.8201408	33
869	97.451533	37.7572512	0	959	98.055169	38.1716195	0	1049	97.568283	37.8201408	0
870	97.451533	37.756886	0	960	97.583022	38.077521	69.7459882	1050	97.605345	38.0185558	0
871	97.905148	38.0519547	0	961	97.514009	38.0457081	0	1051	97.608885	38.025111	99.4653998
872	97.770291	38.47288	3.45249823	962	97.775198	37.908251	72.3674317	1052	97.635431	37.9605139	0
873	97.7281	38.453015	41.4115654	963	97.774463	37.902602	0	1053	97.612227	37.8215156	67.9267518
874	97.784682	38.46692	0	964	97.89224	38.07783	0	1054	97.535068	38.0688257	96
875	97.663114	38.451609	1.51541656	965	97.969047	38.093778	723.674317	1055	97.683577	38.152123	84.9041433
876	97.74927	38.39868	7	966	97.957171	38.116983	421.112717	1056	97.449761	37.881373	45
877	97.492056	37.897536	459.185333	967	97.934456	38.079918	386.372913	1057	97.68734	37.958704	0
878	97.517438	37.897584	400.532759	968	97.724961	38.233068	0	1058	97.530634	38.054248	80.8400158
879	97.559757	37.897782	751.061068	969	97.518458	37.868697	70.9667916	1059	97.580929	37.774891	11.9318339
880	97.537583	37.962531	373.900955	970	97.513871	37.864381	48.4242798	1060	97.665717	37.934265	0
881	97.519099	37.940681	204.909606	971	97.475061	37.844997	0	1061	97.678783	37.857658	57.4495705
882	97.8412	37.986601	0	972	97.472617	37.8538018	0	1062	97.404342	37.784693	0
883	97.841147	37.986601	0	973	97.468012	37.974113	124.980436	1063	98.021355	38.001797	35.3535819
884	97.824958	37.981259	128	974	97.707909	38.329544	121.054715	1064	97.898142	38.035063	63.5833333
885	97.824968	37.981286	0	975	98.054372	37.828303	170.6197	1065	97.889053	38.0242901	0
886	97.688546	38.173798	0	976	98.028921	37.822509	43.9710174	1066	97.964379	37.8847011	0
887	97.761267	37.9231428	0	977	97.46524	37.9331514	5.0381923	1067	97.697156	37.8870329	92
888	97.975477	38.030878	0	978	97.464408	37.93375	14.4381941	1068	97.623787	38.046931	78.8959371
889	97.486405	37.901404	39.9569128	979	98.02166	37.794647	158.262519	1069	98.022518	37.8102008	109.172597
890	97.525766	38.129317	0	980	98.1004	37.9303705	168	1070	97.974915	37.744487	136
891	97.927124	38.0756496	0	981	97.487101	37.887236	86.0362558	1071	97.488708	38.2246708	48.349399
892	97.929052	38.0794255	10.9685101	982	97.730737	37.996512	0	1072	97.456025	38.332369	65
893	97.71938	37.893526	5	983	97.510641	37.7552436	217.306069	1073	97.509264	37.854347	0
894	97.881593	37.95326	0	984	97.628267	37.9099899	99	1074	97.509315	37.854305	136.294736
895	97.880263	37.9530578	0	985	97.607803	37.903259	0	1075	97.477327	37.836098	83.5228371
896	97.914202	37.955519	0	986	97.645615	37.915157	60.0642625	1076	97.71797	38.271886	105.305799
897	97.907814	37.9523912	0	987	97.682439	38.3769602	507.894713	1077	98.004404	37.7569035	0
898	97.681961	37.9374895	14	988	97.953726	38.0416496	432.355586	1078	97.394418	37.7960073	55.0833333
899	97.467742	37.7611008	0	989	97.550501	38.1736102	127.251412	1079	97.822968	38.0621003	0
900	97.614831	38.0396808	50.4810481	990	97.587839	38.203118	94.5953826	1080	97.705711	37.8600363	76

No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED
1081	97.978541	37.781111	0	1171	97.449294	38.3439151	0	1261	97.485339	37.7898119	0
1082	97.637502	37.943862	46.106963	1172	97.12531	37.1395692	0	1262	97.54979	37.8120597	0
1083	97.532194	37.829217	0	1173	97.683502	38.0374434	0	1263	97.550039	37.8158714	43
1084	97.532195	37.82893	0	1174	97.422066	37.848568	81	1264	97.609877	38.0998019	102
1085	97.568953	38.1086746	112.976176	1175	97.694182	38.445682	0	1265	97.706373	38.133822	168.666667
1086	97.559624	38.0904478	0	1176	97.66217	38.192829	118.538841	1266	97.568985	37.937686	0
1087	97.464591	38.3466295	31	1177	97.765918	38.0645281	0	1267	97.708721	38.4238804	64
1088	97.757107	37.9601589	0	1178	97.76696	38.0645281	0	1268	97.706091	38.378024	62
1089	97.490715	37.8394694	153.668394	1179	97.44269	37.8129266	24.8333333	1269	97.717373	38.300339	76.4521208
1090	98.00888	37.977054	30	1180	97.740751	38.353873	0.420192051	1270	97.665885	38.217118	0
1091	98.013373	37.977054	39	1181	97.908778	37.959045	0	1271	98.014397	37.7634129	52.331894
1092	97.757906	38.047614	0	1182	97.85685	38.0849407	0	1272	97.58443	37.790108	0
1093	97.379301	37.8309013	0	1183	97.706352	38.219246	89.4519274	1273	97.669545	37.850322	65.4253017
1094	98.000071	38.082413	100.536748	1184	97.693307	38.463536	53.3176206	1274	97.476516	38.0423722	10.8495294
1095	97.869694	38.0458399	0.138099929	1185	97.728615	38.449459	92.4348859	1275	97.598946	38.147617	301
1096	97.722848	38.369555	7	1186	97.777122	38.4543992	88.2028903	1276	97.448559	37.998912	36.7161678
1097	98.110151	38.1701912	72.2244216	1187	97.71752	38.442254	38.6679802	1277	98.054737	38.162773	92
1098	97.569798	37.7719793	82.9458863	1188	98.111015	37.944685	0	1278	98.063249	38.1699993	0
1099	97.567726	37.7719793	94.7242758	1189	97.537569	37.927414	473.339041	1279	97.545754	38.0793623	164.650408
1100	97.866731	38.0588194	0.42458056	1190	97.564234	37.904894	730.870858	1280	97.514009	38.0444724	0
1101	97.866749	38.0588194	0	1191	97.572659	37.9120338	291.403126	1281	97.77508	37.904741	0.064446634
1102	97.624565	37.7946407	0	1192	97.476236	37.864927	0	1282	97.698532	38.250885	152.115537
1103	97.724162	37.894341	0	1193	97.51765	37.927359	359.48946	1283	97.533873	38.1453795	179.057299
1104	97.41613	38.326733	0	1194	97.500829	37.91262	458.237047	1284	97.499886	37.941495	117.41256
1105	97.745074	38.293441	26.5210173	1195	97.563973	37.9776398	354.051392	1285	97.864237	38.0428748	491.755434
1106	97.696761	37.9742429	73	1196	97.841182	37.986601	0	1286	97.897415	38.048807	0
1107	97.485303	37.747783	45	1197	97.807212	37.974271	0	1287	97.941503	38.0856523	308.146975
1108	98.036306	38.148097	0	1198	97.807264	37.974271	0	1288	97.913749	38.0206976	0
1109	97.738005	37.939426	34.0646492	1199	97.69717	37.870611	53.4722926	1289	97.527592	37.868758	32.3264314
1110	97.724557	37.9377626	0	1200	97.453245	37.7527167	99.66365	1290	97.694823	38.209352	167.211394
1111	97.943928	38.0931889	1.04403546	1201	98.025719	37.825523	27.5279192	1291	97.60109	38.1615104	57
1112	97.944439	38.0949107	1.41046061	1202	97.451622	38.2861485	0	1292	97.449676	38.3516926	0
1113	97.943661	38.0941995	3.83856425	1203	97.994525	38.0206866	119.189538	1293	97.477933	38.0387583	0
1114	97.946173	38.0966792	0.467698427	1204	97.992286	38.0206893	0	1294	98.05933	37.802607	194.789029
1115	97.90782	37.9883797	115.304541	1205	97.975543	38.0294363	0	1295	98.035138	37.7929279	153.197934
1116	97.907706	37.9919935	43.067537	1206	97.974391	38.0310592	0	1296	97.727887	37.994981	0
1117	97.907706	37.9928174	0	1207	97.986281	38.0246904	10.0475371	1297	97.731775	37.994876	0
1118	97.426414	38.355619	0	1208	97.527213	38.129043	0	1298	97.50243	37.7583001	36.536331
1119	97.468041	37.780315	0.036826648	1209	97.526488	38.129179	0	1299	97.703761	38.3401395	360.858184
1120	97.468041	37.780315	0	1210	98.065571	37.7900793	0	1300	97.672325	38.368492	3.95272686
1121	97.744966	38.313954	0	1211	97.448418	37.7417983	58.1256464	1301	97.663749	37.832028	0
1122	97.610706	38.1539685	45	1212	97.983556	37.9947991	25.3097275	1302	97.798086	37.919422	49
1123	97.966523	38.0388773	0	1213	97.6514	37.9888089	130	1303	97.749393	37.9708492	0
1124	97.665396	38.053795	0.460333097	1214	97.907141	37.9529239	71.8444933	1304	97.747995	37.9850466	0
1125	98.013841	38.0679327	0	1215	97.843465	38.006698	0	1305	97.955399	38.041331	553.796244
1126	97.44574	37.7667973	7.54731457	1216	97.836413	38.006698	0	1306	97.569771	38.203099	0
1127	97.446353	37.7675992	4.28293913	1217	97.568797	38.0904478	95	1307	97.669705	37.870637	116.626925
1128	97.627382	37.813457	29	1218	97.660514	37.9014829	31	1308	97.661832	38.3456544	136
1129	97.426246	37.966735	25.8891334	1219	97.477019	38.046729	0	1309	97.462987	38.011442	123.409166
1130	97.623848	38.1707189	71.2251919	1220	97.51032	38.0282417	0	1310	97.578732	38.222265	50.25
1131	97.71307	37.9651602	0	1221	97.508932	38.0271432	0	1311	97.337441	37.8028811	316.501407
1132	97.990986	38.1330958	56	1222	97.991714	38.0671653	0	1312	97.718277	38.352264	136.826341
1133	98.054582	37.792861	117	1223	97.601655	38.1742876	39.6500241	1313	97.734442	38.278754	96.9808287
1134	97.656023	37.8285747	0	1224	97.696779	38.241686	143	1314	97.733888	38.257341	74
1135	98.044572	38.1420815	0	1225	97.598076	38.179543	0	1315	97.84499	38.0943181	0
1136	97.846774	38.042775	995.841658	1226	97.887738	38.075127	0.088997732	1316	97.846675	38.0946833	24.4365063
1137	97.926155	37.7505614	0	1227	98.12318	37.8988702	0.126821768	1317	97.846311	38.0926649	0
1138	97.729157	38.0281332	0	1228	97.635299	38.0156793	0	1318	98.025107	37.779855	0
1139	97.553575	37.891437	1.58661474	1229	97.56155	37.8321001	0	1319	98.009856	37.784189	98.2234211
1140	97.532151	37.9376309	61	1230	97.98621	37.7516994	0	1320	97.939979	38.123271	10.4833191
1141	98.005231	37.8067102	0	1231	97.522023	37.79114	456.282166	1321	97.752903	38.286505	0
1142	97.733751	37.9670356	54.8563607	1232	97.517277	37.78034	261.467502	1322	97.735753	37.890877	17.1962032
1143	97.971164	37.7670358	142	1233	97.521982	37.793992	105.46845	1323	97.742365	37.890791	32.6468232
1144	97.78886	37.9375611	2.72210305	1234	97.512	37.765557	459.785485	1324	97.724536	38.0103316	115.176568
1145	97.834327	38.0881806	0	1235	97.517775	37.791044	381.827891	1325	97.651247	38.003207	61
1146	97.835334	38.0881806	0	1236	97.830054	38.0286406	0	1326	97.724622	38.01409	59
1147	97.878888	38.076083	136.105152	1237	97.500286	38.0128758	0	1327	97.607341	38.035895	0
1148	97.86627	38.0597111	15.1811718	1238	97.532156	38.010295	150.377933	1328	97.724756	38.1482874	85.288368
1149	97.870029	38.093199	0.742056952	1239	97.513007	38.010297	46	1329	97.674784	38.200813	83.7069704
1150	97.871242	38.09307	0.748501616	1240	97.445411	37.9814097	39	1330	97.503126	37.8369244	0
1151	97.93547	37.748611	107.165545	1241	97.445288	38.012287	0	1331	97.716021	37.9885144	56.2434978
1152	97.698861	38.423772	57.6666667	1242	97.665352	38.401093	46	1332	97.5453	37.814086	32.40745
1153	97.850212	38.004744	0	1243	97.930764	38.0655212	0.207334027	1333	97.624032	38.122985	51.3851423
1154	97.568253	38.189594	39.8955351	1244	97.93115	38.0659029	9.5399431	1334	97.562223	38.115294	2.02546563
1155	97.871099	38.0393015	1599.58386	1245	97.944226	38.166705	0.000184133	1335	97.562223	38.115294	0
1156	97.537168	37.7831142	0	1246	97.944748	38.164969	39.0429951	1336	97.714057	38.187978	192.333333
1157	97.481642	37.948845	60.9628327	1247	97.706121	37.996085	0	1337	97.380945	37.8348832	275.128817
1158	97.917128	38.0870643	0	1248	97.556128	37.98778	178.774962	1338	97.414638	38.305109	22.2340886
1159	97.917128	38.0870807	8.4262439	1249	97.715949	38.285732	115.341061	1339	97.568548	37.981426	108.933224
1160	97.476703	37.7227807	5.59550224	1250	97.710329	38.2689219	104	1340	97.605351	37.9923393	107.5
1161	97.477639	37.7255304	5.5611307	1251	97.518219	37.9573773	165	1341	97.444801	38.035964	99.4641723
1162	97.472571	37.7239503	3.77442451	1252	97.518317	37.923149	0	1342	97.701979	37.8761208	82.5
1163	97.623714	37.8434229	157	1253	97.61727	37.977629	80	1343	97.701979	37.8761208	0
1164	97.987228	38.0796099	0	1254	97.698723	38.358582	0	1344	97.631953	38.0104756	105
1165	97.585137	38.1551978	0	1255	97.698751	38.35134	0	1345	97.35555	37.77953	0
1166	97.565351	38.0855102	0	1256	97.6146	37.894176	0	1346	97.385257	37.792311	55.4885515
1167	97.535271	38.20185	0	1257	97.422513	37.765789	0	1347	97.692374	37.8907677	54
1168	97.535794	38.1974872	25.1928028	1258	97.632668	37.930518	191.406502	1348	97.569314	38.206837	54.1115418
1169	97.535752	38.1974131	0	1259	97.632668	37.930518	0	1349	97.623967	37.9377272	46
1170	97.708365	37.9168449	25	1260	97.670114	37.959785	237.679185	1350	97.784818	37.89914	0

No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED
1351	97.893989	37.969785	127.468997	1441	97.86956	38.0933089	0.911766421	1531	97.383133	37.80728	75.932865
1352	97.558091	37.7682555	153	1442	97.621481	37.897611	75	1532	97.55511	38.009347	109
1353	97.650628	38.148431	74.25	1443	97.692803	37.930674	0	1533	97.74986	38.3204008	81.25
1354	97.828422	37.965936	0.82282086	1444	97.898455	37.98838	64.7504534	1534	97.63297	37.842709	63.4707274
1355	97.79867	37.98108	0	1445	97.849952	38.004744	0	1535	97.660083	37.843095	0
1356	97.898782	37.9771473	118.042295	1446	97.750131	38.024098	0	1536	97.697005	38.109339	0
1357	97.9558	37.9480579	29	1447	97.74296	37.9451995	118	1537	97.632979	37.9015129	127
1358	97.898445	37.9920043	0	1448	97.614967	38.1921869	0	1538	97.522623	37.768904	0
1359	98.041	37.773457	163.068396	1449	97.731456	38.1777138	113.426075	1539	97.609859	38.0724643	0
1360	97.340491	37.7697321	46.9048737	1450	98.097068	37.9123907	70	1540	97.66586	38.182688	68.1814694
1361	97.502969	38.018406	50	1451	98.096202	37.9121106	0	1541	97.726211	38.142426	88.6601545
1362	97.502969	38.018406	0	1452	97.630661	37.850517	117	1542	97.722546	38.188574	161.37437
1363	97.95442	38.108733	123.737536	1453	97.535794	38.1974872	0	1543	97.624165	37.829345	126.775735
1364	97.479242	38.0546733	71.7042759	1454	97.596293	38.0505422	107	1544	97.510127	37.99923	0
1365	97.568748	38.025055	88.8258744	1455	97.989718	37.809519	0	1545	97.426481	37.948724	6.80482797
1366	97.481114	37.7853082	0.515573069	1456	97.752016	37.9597249	4	1546	97.514009	38.0448843	0
1367	97.652227	37.8706795	70	1457	97.739052	38.361298	63	1547	97.789948	38.012932	0
1368	98.000884	38.097516	56.2210949	1458	98.035122	38.0028599	117.623392	1548	97.491132	37.879933	149.428727
1369	97.56879	37.8867915	0	1459	98.035122	38.0028599	0	1549	97.878779	38.0428961	326.39151
1370	97.867253	37.962894	29.3330387	1460	97.426378	37.852175	19.44447	1550	97.883402	38.0085844	0
1371	97.582964	37.9685698	0	1461	97.568843	37.8438716	32	1551	97.900609	38.049079	0
1372	97.96379	37.8861208	0	1462	97.550687	37.879826	200	1552	97.900978	38.051274	0
1373	97.614537	38.021022	38	1463	97.694182	38.445682	110.235046	1553	97.912384	38.085555	284.547232
1374	97.560468	38.032356	93319	1464	97.391129	37.84037	0	1554	97.976325	38.11746	248.702628
1375	97.495828	38.2157447	0	1465	98.133066	37.9173007	0	1555	97.959538	38.0998159	443.147328
1376	97.67875	37.9035603	0	1466	97.377088	37.7884907	0	1556	97.966375	38.081019	407.763057
1377	98.141356	37.917254	0	1467	97.376704	37.788834	0	1557	97.927023	38.0336259	56.1087736
1378	98.135781	37.915708	60	1468	97.858719	38.0814065	0	1558	97.926321	38.0328817	0.322540057
1379	98.05016	37.788025	193.395141	1469	97.859004	38.0809809	0	1559	97.724521	38.232052	75.6357967
1380	97.500229	37.846792	63.8021672	1470	97.750854	38.312458	7.07071637	1560	97.724961	38.233068	86.9876109
1381	97.731838	38.1884913	23.9189077	1471	97.693307	38.463536		1561	97.458786	37.843147	58.0019702
1382	98.004508	37.7560879	0	1472	97.777122	38.4543992	0	1562	97.495057	38.017472	9.21E-06
1383	97.680347	37.92327	125.527312	1473	98.110554	37.9454182	0	1563	97.49065	38.0276291	0
1384	97.71098	37.9914775	72	1474	97.403785	37.82856	0	1564	97.909134	38.045719	0
1385	97.711011	37.9923013	0	1475	97.564911	38.014621	421.674324	1565	98.031784	37.790047	74.076802
1386	97.623954	37.872676	0	1476	97.537444	37.978345	316.129151	1566	97.477156	38.025787	0
1387	97.454488	38.3475672	51	1477	97.554215	37.9696176	175.16595	1567	97.449731	37.930524	48
1388	97.55454	37.8154696	94	1478	97.824899	37.981286	0	1568	97.513943	37.934058	50
1389	97.64388	38.271702	77.4132963	1479	97.825003	37.981204	0	1569	97.697031	38.148297	114
1390	97.655212	37.823929	48.611175	1480	97.81591	37.9884708	122	1570	97.729831	37.994922	0
1391	98.029102	37.9969307	0	1481	97.615464	38.1035148	0	1571	97.446862	37.905369	102
1392	98.030659	37.9948711	0	1482	97.746448	38.275253	80	1572	97.609969	37.9076295	110
1393	97.633349	38.2357496	0	1483	97.451152	38.2861485	94.4671031	1573	97.702788	38.3474311	477.647759
1394	97.887554	38.078216	7.53902857	1484	97.527452	38.124658	34	1574	97.672325	38.363052	230.188031
1395	97.458876	37.735311	20.0895501	1485	97.641231	38.2632594	46.6492354	1575	97.559625	37.9366562	9.0415558
1396	97.696761	37.9742429	0	1486	97.923407	38.078025	0.423966782	1576	97.955771	38.0405512	551.293137
1397	97.615133	38.1266391	78.2440441	1487	97.461732	37.7433774	267.267862	1577	97.950129	38.0410866	1595.23223
1398	97.42605	38.303625	61.3531952	1488	97.564162	37.974235	91.1441119	1578	97.568275	38.202309	0
1399	97.733655	37.9333056	59	1489	97.412564	37.777607	0	1579	97.550501	38.1736102	0
1400	97.68801	37.8724989	0	1490	97.914722	37.9554339	109.863097	1580	97.663906	37.8659297	0
1401	97.957286	37.9578245	2.45695118	1491	97.839237	38.0280037	0	1581	97.678021	38.333649	0
1402	97.95865	37.9523232	0	1492	97.839237	38.0266307	0	1582	97.462838	38.008876	103.20668
1403	97.924713	37.9555407	0	1493	97.465405	37.7574321	0	1583	97.458684	38.007319	60.6246413
1404	97.659276	38.058752	5.1443758	1494	98.028149	38.1074706	0	1584	98.08374	38.1442889	28.5007565
1405	97.559614	37.9160873	93	1495	97.518169	37.9546334	105	1585	97.724921	38.273217	106.705212
1406	97.768282	37.916468	0	1496	97.508932	38.0282417	0	1586	97.660829	38.1804491	0
1407	97.670031	38.1204097	27	1497	97.887949	38.071987	14.6416614	1587	97.449774	37.9230693	79
1408	97.600578	37.80104	0	1498	98.110912	37.8978404	0.141561634	1588	97.34127	37.794998	28.6848897
1409	98.039625	37.933653	0	1499	98.081013	37.8848824	0	1589	97.578243	37.9233643	186.987304
1410	98.040427	37.954491	0	1500	97.832109	37.982871	76	1590	97.632758	37.952479	90.9470893
1411	98.103499	37.9192093	0	1501	97.685966	37.9958015	0	1591	97.636071	37.95457	0
1412	98.104122	37.9192093	0	1502	97.439653	37.783623	0	1592	97.596331	37.923243	119
1413	98.031659	37.9227399	0	1503	97.477995	37.7946308	0	1593	97.669641	37.995914	230.847841
1414	97.666997	38.3089029	60	1504	98.018133	38.1053013	0	1594	97.846046	38.0935739	0
1415	98.018613	38.1479118	94	1505	98.000354	38.1015262	0	1595	97.853679	38.0907394	18.274825
1416	97.910357	38.0474237	208.377449	1506	97.990343	38.0899712	0	1596	97.846557	38.0916407	30.385974
1417	97.429438	38.32018	102.883833	1507	97.466942	37.730762	0.962513541	1597	97.65637	38.144695	0
1418	97.77037	37.9596893	0	1508	97.651586	38.0176313	65	1598	97.942415	38.116691	11.1465056
1419	97.761321	37.951551	130	1509	98.009292	37.7551051	0	1599	97.731668	38.285752	0
1420	97.752049	37.9523257	74	1510	98.051797	37.8377488	27	1600	97.72203	38.3384508	0
1421	98.054582	37.792861	0	1511	97.591763	37.928853	54	1601	97.689656	38.31514	69.9491485
1422	98.063299	37.7951101	146.707544	1512	97.753917	38.453104	36.4583813	1602	97.724756	38.1482874	0
1423	97.522167	37.822743	0	1513	97.367322	37.7904125	9	1603	97.404273	38.320814	13.3803487
1424	98.041929	38.1377372	0	1514	98.015224	37.8025265	0	1604	97.668596	38.143081	73.0640692
1425	98.047972	38.1380777	0	1515	97.434103	37.7582559	0	1605	97.670038	38.177619	0
1426	97.815541	38.1594205	11.2962673	1516	97.432868	37.7573332	0	1606	98.023288	37.8033915	98.5
1427	97.737359	38.2148405	93	1517	97.527759	37.872723	51.4772089	1607	97.912293	38.004775	4.14668054
1428	97.636846	38.0049642	63	1518	97.512072	37.861514	0	1608	97.910555	38.004756	16.6747992
1429	98.073196	38.162846	50.7449724	1519	97.715491	37.9743389	0	1609	97.560555	37.793048	0
1430	97.644613	38.216605	35.6475813	1520	97.916253	38.0098829	0	1610	97.647836	38.2824749	0
1431	97.747501	37.9887882	53	1521	97.563606	38.176842	98	1611	97.648045	38.2819531	0
1432	97.48131	37.9918373	183.105162	1522	97.628527	38.2470546	0	1612	97.647557	38.2823019	0
1433	97.549857	37.8958502	0	1523	97.615456	37.9742848	79	1613	97.607013	38.143932	0
1434	98.008706	37.814287	197	1524	97.664929	37.9703403	22	1614	97.69897	38.402048	16
1435	98.004137	37.8067707	178	1525	97.586965	37.905054	100.540615	1615	97.679456	38.235455	83.8131539
1436	97.748629	38.0349587	111	1526	97.701386	38.1773593	90.5321757	1616	97.541686	38.037238	63.7469273
1437	97.515583	38.1165285	0	1527	97.701389	38.1740311	95.4423955	1617	97.380945	37.8348832	0
1438	98.054688	37.995539	75.954961	1528	97.724197	37.9078885	62	1618	97.38086	37.8450492	0
1439	97.878854	38.072604	60.6537958	1529	97.54979	37.8120597	290	1619	97.416382	38.305906	20.9451559
1440	97.86065	38.0597111	1.18336295	1530	97.476072	37.755389	49.946141	1620	97.433422	38.311141	11.9226272

No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED
1621	97.439691	37.777478	0	1711	98.039625	37.933653	32.1444464	1801	98.035039	38.1042298	287.416028
1622	98.004155	38.0066055	0	1712	98.045345	37.980852	126.566744	1802	97.670452	38.235429	0
1623	97.92601	37.945067	0	1713	98.114473	37.9493012	0	1803	97.664666	38.186709	137.951395
1624	97.533279	37.993168	22	1714	97.961765	37.9745703	0	1804	97.605506	38.0469448	96.257185
1625	97.697151	37.879818	89.4887541	1715	98.102875	37.9192093	0	1805	97.990731	38.0679424	0
1626	97.649036	37.9558078	32.40745	1716	97.707956	38.300501	71.6666667	1806	98.027932	38.1479118	112
1627	97.614604	37.901477	71.8119631	1717	98.072899	37.9517797	77.9497378	1807	97.699149	38.4455993	101.931251
1628	97.618459	37.9119204	0	1718	97.71364	38.2147898	0	1808	97.441635	38.337822	40.3251793
1629	97.688256	37.9888539	85	1719	97.65625	38.04695	165.904048	1809	97.832109	37.9827282	0
1630	97.707702	38.27865	0	1720	97.531955	38.031882	220.527173	1810	97.832109	37.982871	0
1631	98.041045	37.787976	0	1721	97.607046	38.166542	61	1811	97.651185	37.8502166	60
1632	98.069777	37.814286	0	1722	97.444511	38.347282	41.8903118	1812	97.491684	37.8031182	0
1633	98.070123	37.814288	140.021053	1723	97.752108	37.94515	61	1813	97.5412	37.7376474	0
1634	97.468898	37.771317	0	1724	97.522166	37.822879	0	1814	97.412403	37.882746	10.6367634
1635	97.784818	37.89914	1.60558046	1725	97.674973	38.215481	136	1815	97.421945	37.864758	63
1636	97.486404	37.988527	56.7378955	1726	97.631383	38.0255103	45	1816	97.526041	37.788133	17.614557
1637	97.460703	37.7787213	0	1727	97.959278	37.7737887	0	1817	97.516753	37.76671	498.990091
1638	97.63294	37.98878	116	1728	97.39905	37.819634	37	1818	97.42433	38.0039395	0
1639	98.027207	37.969839	115.068544	1729	97.431964	37.9667402	162.976023	1819	97.67878	37.865013	51
1640	97.868172	37.969155	89.5808207	1730	98.00304	37.8068311	0	1820	97.475865	37.790697	0
1641	98.00494	37.7882099	115.25237	1731	97.97021	37.7671511	0	1821	98.015224	37.8025265	113.260355
1642	97.80697	37.9812407	0	1732	97.592964	38.109592	20.1165563	1822	97.614538	38.025029	137.142436
1643	97.779063	37.8961622	0	1733	97.432997	37.7701733	0	1823	97.980972	37.893311	0
1644	97.919862	37.97766	162.450322	1734	97.633045	37.9668657	64	1824	97.980881	37.9238635	0
1645	97.95108	37.9551813	0	1735	97.613495	37.84977	14.6570058	1825	97.445192	37.9740309	57
1646	97.964219	37.947718		1736	97.466821	37.7264768	0	1826	97.523365	37.876185	58.1373082
1647	97.660685	37.959764	88	1737	97.453021	37.748182	53.8206726	1827	97.518728	37.860436	0
1648	98.077587	37.83903	0	1738	97.724492	37.945207	74	1828	97.44729	37.7317599	0
1649	97.461914	38.3041413	0	1739	97.571402	38.1946248	59.8433026	1829	97.742929	37.9671504	0
1650	97.587113	38.043064	0	1740	97.871099	38.0393015	39.5	1830	97.744545	38.257919	79.4534925
1651	97.99113	38.1258583	82.1307898	1741	98.015807	38.1365459	0	1831	97.434692	37.880493	127
1652	98.056162	37.9520798	58.9226364	1742	97.683221	37.928773	69	1832	97.511374	37.966731	123
1653	97.437602	38.345526	50.1302743	1743	97.857276	38.0171043	0	1833	97.46316	38.0229232	17
1654	97.633062	37.9576415	0	1744	97.476703	37.7227807	6.16692906	1834	97.513923	37.905083	0
1655	97.639976	37.811455	94.2762183	1745	97.474166	37.7275775	0.233542325	1835	97.715323	37.9450808	128.833333
1656	97.554899	38.004444	90.3130572	1746	98.097935	37.9121106	0	1836	97.729129	37.9787506	104.293066
1657	97.651481	38.039875	103.045257	1747	97.902597	38.0731722	6.55115375	1837	97.630989	37.922655	190.762035
1658	97.683577	38.152123	0	1748	97.515753	37.8276973	0	1838	97.596341	37.930521	24.4897208
1659	97.721451	38.115484	51	1749	98.092768	37.9644024	0	1839	97.467091	37.748037	0
1660	97.449761	37.881373	0	1750	97.535793	38.201575	10.6797279	1840	97.678754	37.9306269	117
1661	97.706304	37.945499	0.883839546	1751	97.53577	38.1979705	0	1841	97.54901	37.790227	175
1662	97.731032	38.3840857	0.058922636	1752	97.732337	38.359824	0	1842	97.609842	38.0973854	31
1663	97.941315	38.163754	48.420904	1753	97.900969	38.0550977	0	1843	97.706373	38.133822	0
1664	97.688383	38.208521	216	1754	97.559356	38.1190447	120	1844	97.559427	37.930232	0
1665	97.652227	37.8706795	0	1755	97.559356	38.1198054	0	1845	97.52368	37.765039	0
1666	97.697604	38.157817	0	1756	97.559356	38.1182841	0	1846	97.5216	37.753863	0
1667	98.082204	38.1338128	0	1757	97.820692	37.977481	631580	1847	97.6805	38.401936	81.9392913
1668	97.449647	37.886869	112.853973	1758	97.683502	38.0390911	0	1848	98.045194	38.1716999	0
1669	97.472721	37.9072594	0	1759	97.600728	38.0105388	74	1849	97.689557	38.257768	171.170259
1670	97.504926	37.908731	88	1760	97.979683	37.7596057	121	1850	97.706061	38.112009	36.850892
1671	97.646256	38.03584	75	1761	97.791712	37.9480468	0	1851	97.522554	37.768904	0
1672	97.646256	38.03584	0	1762	97.792083	37.9478189	40.4812046	1852	97.697585	38.230782	0
1673	97.678861	37.9024398	23	1763	97.791393	37.948272	34.8778828	1853	97.698638	38.2185711	71
1674	97.898229	38.158036	4.43825552	1764	97.69883	38.287842	138.37306	1854	97.681641	38.137619	87.9543104
1675	97.50023	37.84671	0	1765	97.740197	38.4068039	71	1855	97.712103	38.1288091	149.249197
1676	97.500126	37.846792	0	1766	97.465427	37.7844451	0	1856	97.712103	38.1288091	0
1677	98.00658	38.095533	0	1767	98.133201	37.9173007	4.38267797	1857	97.367957	37.8861779	21
1678	97.435715	37.821685	110.07485	1768	97.4142	37.7678161	0	1858	97.59813	37.8254591	83.3534345
1679	97.488456	37.778873	0	1769	97.764876	38.0645281	0	1859	97.622776	37.806761	0
1680	97.697152	37.952407	102.083468	1770	97.745216	38.3697053	43.1405765	1860	97.571736	37.788361	115.341061
1681	97.486402	38.1153292	0	1771	97.64645	37.9214922	6	1861	97.472716	38.042699	0.112014387
1682	97.522866	37.9270473	6	1772	97.726536	38.329468	121	1862	98.06393	38.162808	106
1683	97.385241	37.7995629	65	1773	97.451533	37.7579845	0	1863	98.063695	38.141055	128.340867
1684	97.979531	37.7811192	115.450006	1774	97.694223	38.4502601	66	1864	98.054955	38.1556069	0
1685	97.495497	37.923071	104.58768	1775	97.776672	38.463882	63.7481548	1865	97.583022	38.077521	0
1686	97.632173	38.2960577	56.7099687	1776	97.78399	38.466703	1.01960405	1866	97.533873	38.1453795	0
1687	97.527165	38.05245	72	1777	97.783852	38.467462	2.54029909	1867	97.693601	38.413359	0
1688	98.019136	38.09687	136.323043	1778	97.735428	38.449282	106	1868	97.545813	38.070996	121.844647
1689	97.718773	38.4278702	51	1779	97.738562	38.197551	0.077765605	1869	97.48487	37.8705415	0
1690	97.612304	37.855834	27.969839	1780	97.48304	37.904366	313.499115	1870	97.471291	37.7765344	0
1691	98.027384	38.166131	0	1781	97.473946	37.896932	384.301414	1871	97.883298	38.0085844	0
1692	97.723955	38.183189	0	1782	97.610427	37.948101	137.869763	1872	97.897431	38.050975	0
1693	97.62461	37.7942315	0	1783	97.610416	37.97131	918.66528	1873	97.894998	38.05073	0
1694	97.424113	37.7850712	0	1784	97.537567	37.933399	435.355423	1874	97.927444	38.056545	271.660974
1695	97.958849	37.7591413	68	1785	97.574113	38.014667	383.758221	1875	97.895454	38.056698	0
1696	97.687701	37.922977	0	1786	97.564931	37.984645	0	1876	97.934456	38.079918	0
1697	98.027653	38.140434	93	1787	97.572742	38.027871	537.132002	1877	97.936699	38.058369	0.030688873
1698	97.697128	37.981651	76.7372204	1788	97.807298	37.974271	154	1878	97.916515	38.0287077	41.5020976
1699	97.425642	37.9013	7.42425219	1789	97.824976	37.9884543	160	1879	97.928106	38.0350264	66.6488671
1700	97.9456	38.0935294	3.49055243	1790	97.688546	38.173798	95	1880	97.518659	37.864685	40.334386
1701	97.513899	37.853602	90.7233674	1791	97.994525	38.0206866	0	1881	97.468274	37.879481	97.5344559
1702	97.426381	37.9843207	128.893267	1792	97.878022	38.0855063	0.021482211	1882	97.491035	38.0270167	0
1703	97.697229	37.8941592	118	1793	97.486409	37.897809	34.9982047	1883	97.490771	38.0270441	129.774958
1704	97.907706	37.9936412	15.591482	1794	97.461732	37.7433774	24.7874028	1884	97.48406	38.0372645	0
1705	97.95865	37.9531471	65	1795	97.440248	37.7870777	0	1885	97.58737	38.1778891	142
1706	97.924744	37.9545576	0	1796	97.533104	37.7862935	317.462583	1886	97.479271	37.959631	114.166667
1707	97.930455	38.049165	14.1702803	1797	97.845547	38.006698	0	1887	97.909134	38.045719	11.7292873
1708	98.014271	37.788219	171.937481	1798	97.624977	37.7962912	0	1888	97.476289	37.9868394	25
1709	97.855479	38.1133303	0	1799	97.986558	37.795599	97	1889	98.004799	37.7663394	159.100018
1710	97.463333	37.937493	89	1800	97.468056	38.039398	17.9529908	1890	97.66082	37.945157	50

No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED
1891	97.468808	37.930213	53	1981	97.683146	37.88154	45.4072567	2071	97.725018	38.30322	74.5739617
1892	97.537791	37.7883594	0	1982	97.637496	37.828652	132.428625	2072	97.585137	38.1558843	0
1893	97.62265	37.849678	0	1983	97.578695	38.1335197	58.0295902	2073	97.585137	38.1551978	164
1894	97.623714	37.8434229	3	1984	98.054592	38.005315	26.7801541	2074	97.565306	38.0855157	0.887644967
1895	97.729843	37.9945932	100.502684	1985	97.668938	38.169418	92.8031524	2075	97.665498	38.249942	22.2561846
1896	97.730831	37.9961063	0	1986	97.669994	38.1536054	76.9977689	2076	97.535758	38.20185	0
1897	97.731322	37.994205	0	1987	97.536387	38.072481	84.3575745	2077	97.449294	38.3439151	85.0569739
1898	97.50243	37.7583001	35.5634937	1988	97.684587	37.958637	0	2078	97.455255	38.3439151	37.6150449
1899	97.632985	37.915556	18.3028439	1989	97.626394	37.9340199	28	2079	97.761442	37.9670516	54
1900	97.742544	38.3776114	0	1990	97.578188	37.988722	236.648039	2080	97.69308	37.870074	28.1355589
1901	98.013139	38.1143091	76.8388006	1991	97.41003	37.78494	0	2081	97.523251	37.8832296	87
1902	97.673073	37.84404	160.269571	1992	97.41003	37.78494	71.25	2082	97.439108	37.7636248	78.3333333
1903	98.017988	37.995437	182.899546	1993	98.082204	38.1338128	114.833333	2083	97.683668	38.288604	72.6221494
1904	97.769867	38.017391	0	1994	97.449637	37.894129	37.2188516	2084	97.59643	37.8534113	0
1905	97.953316	38.0416414	1267.31236	1995	97.745077	38.300608	53.9734418	2085	98.132931	37.9173007	4.45943084
1906	97.571677	38.2031072	204.532133	1996	97.595678	38.155284	4.6542745	2086	97.858298	38.0803493	0
1907	97.542118	38.1742698	0	1997	97.522392	38.0199085	130.945125	2087	97.765918	38.0637043	0
1908	97.505154	37.965087	43.9381803	1998	97.612599	38.0885584	78	2088	97.771235	38.0593243	0
1909	97.735878	38.3669387	0	1999	97.496469	38.2157694	0.140555039	2089	97.770607	38.0596538	0
1910	97.462803	38.006406	126.87087	2000	97.495814	38.2162939	0.000033758	2090	97.938843	38.0222309	0
1911	97.45976	38.009517	206.728842	2001	97.678806	37.903	0	2091	97.749753	38.372891	0
1912	97.45792	38.012592	105.641536	2002	97.588694	37.8053539	39.6785647	2092	97.740709	38.353999	0.021911855
1913	97.338966	37.795002	9.01639093	2003	97.715402	37.923401	90.2952576	2093	97.500633	38.202086	0.005585375
1914	97.642317	37.952381	237.117578	2004	97.495693	37.84679	0	2094	97.909437	37.9592509	54
1915	97.734589	38.274185	3.53535819	2005	97.495589	37.84679	32.8125432	2095	97.738562	38.197551	0
1916	97.84531	38.0951748	0	2006	97.567961	38.017603	46	2096	97.772391	37.7418999	0.721697954
1917	97.853825	38.0901709	18.2134473	2007	97.504864	37.886923	81.2626016	2097	97.481382	37.898768	538.522208
1918	97.511783	37.986811	0	2008	97.697332	37.945041	86.358489	2098	97.517382	37.912103	203.003827
1919	97.716838	38.344008	0	2009	97.710973	37.9906509	0	2099	97.618483	37.970901	0
1920	97.677736	38.219984	100.923428	2010	97.576324	37.773686	43.3026138	2100	97.600067	37.941863	271.473772
1921	97.713318	38.112439	68.75	2011	97.977552	37.7811	0	2101	97.469299	37.857765	0
1922	97.727042	38.358279	32.75	2012	97.652171	38.1191599	67.4633498	2102	97.572662	37.984518	345.47692
1923	97.43278	37.917601	1.78333042	2013	97.646721	37.948717	117.16398	2103	97.554386	37.962611	264.559569
1924	97.468149	37.835389	103.904545	2014	97.532923	37.829078	0	2104	97.528196	37.9421119	411.163384
1925	97.958351	37.9807598	305.089136	2015	97.728257	38.362488	153	2105	97.807316	37.974271	0
1926	97.95201	37.9842803	0	2016	97.485431	38.1236437	19.841584	2106	97.440225	37.828546	0
1927	97.958351	37.9807598	0	2017	97.454488	38.3475672	0	2107	97.877351	38.0860803	0.699706307
1928	97.724593	37.957973	50.8361183	2018	97.757541	38.047862	0	2108	97.975477	38.030878	1.01310108
1929	97.722151	38.383837	70.1666667	2019	97.456906	37.824951	93.4476187	2109	97.97153	38.0326602	0.185455929
1930	97.647557	38.2823019	62.0532084	2020	97.495497	37.923071	0	2110	97.695956	38.1189719	0
1931	97.653147	38.2825908	0	2021	97.970311	37.7591413	60.5156958	2111	97.981018	38.018557	0
1932	97.739701	38.3697011	100.25	2022	98.027631	38.097054	146.496405	2112	97.448418	37.7417983	114.92584
1933	97.695394	38.274054	0	2023	98.03317	37.9894359	0	2113	97.67562	38.257223	103.439916
1934	97.568585	37.9959	67.6315248	2024	98.028866	37.9967549	0	2114	97.425844	38.00509	0
1935	97.701866	38.2083806	76	2025	97.542046	38.0316417	33.9314595	2115	97.496555	37.7269543	0
1936	97.682119	38.191874	81	2026	97.687701	37.922977	55.0392664	2116	97.812896	38.0209488	51
1937	97.426258	38.306227	9.66699504	2027	97.74069	38.322315	73.1008958	2117	98.045357	37.9373	108
1938	97.726217	38.322435	92	2028	97.468091	37.901369	141.782594	2118	98.045357	37.9373	0
1939	97.468185	37.9449705	92	2029	97.95865	37.9528725	0	2119	97.880956	37.9531677	61.7297476
1940	97.500328	37.9848422	80	2030	97.923554	37.9555572	0	2120	97.915239	37.9553488	0
1941	97.554821	38.0779096	0	2031	97.924144	37.9555517	0	2121	97.439281	37.7548369	0
1942	97.564262	37.881485	73	2032	97.767971	38.4352238	30	2122	97.470804	37.7546886	0
1943	97.564244	37.877805	35	2033	98.063913	37.80602	108.367014	2123	97.711655	38.253585	52.8646529
1944	97.568269	37.797779	131	2034	98.326686	37.8717157	0	2124	98.044058	38.0046174	0
1945	97.908092	37.96786	0	2035	97.428395	38.355144	0	2125	97.99989	38.1475458	0
1946	97.91892	37.9627906	0	2036	97.429649	37.846557	64.5865748	2126	97.597667	38.1169581	0
1947	97.926838	37.9448693	0	2037	97.629481	37.839411	35	2127	97.88952	38.072826	836.937741
1948	97.925933	37.9456107	0	2038	98.108204	38.1323387	0	2128	98.083092	37.8848824	0
1949	97.533279	37.993168	0	2039	97.799759	37.930587	100.884146	2129	97.832109	37.9830138	0
1950	97.61497	37.934004	0	2040	98.123212	37.9258001	0	2130	97.55187	37.827786	0
1951	97.627266	38.032819	89.786743	2041	97.961987	37.9752184	157.901924	2131	97.559607	37.892469	13.5522064
1952	97.421906	37.835838	69.6760176	2042	98.0407	37.9373366	13.9725212	2132	97.45459	37.9017705	74
1953	97.578988	38.203355	91.9580176	2043	98.0407	37.938847	18.5959227	2133	97.540058	37.7382763	213.199898
1954	97.461173	37.7672834	0	2044	98.046913	37.958305	0	2134	97.5412	37.7387871	0
1955	97.470807	37.7719729	0	2045	97.47737	37.750248	4.41666667	2135	97.446387	37.7991116	0
1956	97.663698	37.8617693	1	2046	97.454234	37.7930122	0	2136	97.98621	37.7516994	144
1957	97.746031	38.2879506	83	2047	97.454227	37.7924629	0	2137	98.00953	37.7662991	95
1958	97.7705	37.98608	0	2048	97.454217	37.7919137	0	2138	97.421937	37.857302	74.5325317
1959	97.449707	37.877785	0	2049	97.990423	37.7828905	56	2139	97.521966	37.78527	97.4653139
1960	98.139389	37.908497	0	2050	97.689396	38.217359	57	2140	97.417264	37.78511	786.985463
1961	97.826477	37.958374	114.899141	2051	97.674973	38.215481	0	2141	98.088911	38.141983	16.5659243
1962	97.843656	37.989435	40	2052	97.925117	37.7505614	0	2142	98.088911	38.141983	0
1963	97.802634	37.994563	58	2053	97.949529	37.7445604	197	2143	97.716736	38.230965	5.39111434
1964	97.782232	37.9938809	0	2054	97.679243	37.9668812	17	2144	97.98092	37.8946703	0
1965	97.951881	37.948142	18	2055	97.39905	37.819634	0	2145	97.632964	38.0324629	33
1966	97.944603	37.9746387	168	2056	98.119615	37.8874805	138.099929	2146	97.692539	37.937866	51.5573069
1967	97.962948	37.995306	0	2057	97.880482	38.0643445	1.06429012	2147	97.523276	37.872621	119.277829
1968	97.949731	37.9552006	0	2058	97.870832	38.0936411	1.41168816	2148	97.504529	37.872898	135.209037
1969	97.951739	37.9551594	0	2059	98.002508	38.105821	0	2149	97.586044	37.799173	10.6060746
1970	97.954745	37.9953114	0	2060	97.600774	37.93766	65.0972377	2150	97.367037	37.7695518	0
1971	97.9651	37.9477098	5	2061	97.605502	37.93774	61.0294276	2151	97.726614	38.285992	155.040187
1972	97.963231	37.9477262	22	2062	97.571402	38.1946248		2152	97.442787	37.879597	14.1254745
1973	97.795207	37.9389633	0	2063	97.605057	38.220254	88.2661094	2153	97.532171	37.8578713	84.485854
1974	97.977601	37.9498188	0	2064	97.867777	38.0502062	0.389411111	2154	97.652579	38.290025	49
1975	97.889329	37.9799758	0	2065	97.871099	38.0393042	78.4841845	2155	97.628527	38.2470546	38
1976	97.889329	37.9816234	0	2066	97.419932	37.7767962	30	2156	97.698722	38.336988	0
1977	97.338853	37.769785	88.3686102	2067	97.857276	38.0182027	0	2157	97.444713	37.833887	0
1978	97.340501	37.768615	100.647228	2068	97.474736	37.7312149	1.87509015	2158	97.66514	38.0576298	81.0401073
1979	97.754637	38.016394	33	2069	97.477639	37.7255304	4.43079813	2159	97.454181	38.3586508	20.404418
1980	97.596196	38.039597	60.3957023	2070	97.577931	38.017791	84.5833333	2160	97.917487	38.04037	529.797361

No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED	No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED
2161	97.918954	38.039288	1052.14653	2251	97.958619	37.9996806	25	2341	97.733851	37.981562	108
2162	97.914303	38.03969	662.956382	2252	97.956499	37.9842501	0	2342	97.94315	38.0930297	1.23123759
2163	98.026062	37.774422	155.83196	2253	97.547063	37.804893	124.952816	2343	97.945551	38.0941803	20.1696481
2164	97.485339	37.7898119	59	2254	97.724593	37.957973	0	2344	97.90782	37.9883797	0
2165	97.596167	38.010446	0	2255	97.736525	37.9870607	26.8404884	2345	97.92429	37.9553018	96
2166	97.692993	38.406647	105	2256	97.715879	37.9879405	0	2346	97.503154	37.8134848	0
2167	97.550543	37.945043	95	2257	97.653147	38.2825908	117	2347	97.455891	37.871758	2.94613182
2168	97.646556	37.861488	52.8536049	2258	97.731201	37.8799556	0	2348	98.11882	37.9288803	112.507557
2169	98.050103	38.17159	8.77425572	2259	97.449525	37.821707	59.9243212	2349	97.440245	37.865892	23.8452544
2170	98.039972	38.171708	0	2260	97.540933	38.0613028	71	2350	97.542526	37.88718	111.805703
2171	97.40607	37.812433	184.869772	2261	97.540933	38.0613028	0	2351	97.467952	37.908631	81.865638
2172	97.391501	37.835266	45.5729766	2262	97.688316	38.192043	122.559084	2352	98.128148	37.9516139	115.05013
2173	98.087446	38.0581695	2.30964459	2263	97.421492	38.311393	41.4299787	2353	97.769218	37.916646	103.612694
2174	97.519074	37.975116	92.2047193	2264	97.443689	37.953972	88	2354	98.042939	37.9288483	90.4665322
2175	97.53218	37.945184	77.074798	2265	97.513849	37.981441	103.114614	2355	97.604918	38.1376202	43
2176	97.701708	38.168245	113.806617	2266	97.569269	38.225949	0	2356	98.029373	37.980934	3.40646492
2177	97.665505	38.242937	0	2267	97.606419	37.9888105	40.2079478	2357	97.531955	38.031882	0
2178	97.689396	38.217359	0	2268	97.930549	38.054074	4.18903118	2358	97.606878	38.166858	0
2179	97.602581	38.0731508	6	2269	97.56387	37.8850751	149	2359	98.013851	38.067977	0
2180	97.669711	37.9888999	84	2270	97.57338	37.8831888	191	2360	97.731032	38.3840857	2.10280159
2181	97.928893	37.791339	2.76199858	2271	97.918702	37.9626616	111	2361	97.45421	37.7913425	0
2182	97.717066	38.380487	72	2272	97.918702	37.9626616	0	2362	97.713112	37.9686698	70
2183	98.020135	37.786308	119	2273	97.92515	37.9452482	0	2363	97.814341	38.1634791	3.78639317
2184	97.585999	37.8195633	93.121396	2274	97.646376	37.908741	48.0587753	2364	97.656023	37.8285747	82.4166667
2185	97.585999	37.8195633	0	2275	98.054213	38.12213	123.810269	2365	97.464294	38.3163546	0
2186	97.47461	38.041823	24.1915784	2276	97.39198	37.792287	26.0180266	2366	97.868856	38.053841	249.202857
2187	97.47461	38.041823	0	2277	97.67595	38.315149	62.4214748	2367	97.866909	38.05148	523.358836
2188	97.476516	38.0423722	0	2278	98.031759	37.785177	0	2368	98.010889	37.7709512	131.296206
2189	97.427809	37.9380988	31.3888863	2279	97.459139	37.7674756	0	2369	97.926155	37.7513853	0
2190	98.054955	38.1556069	135	2280	97.476215	37.770057	0	2370	97.787625	37.977722	103
2191	97.514009	38.0452962	74	2281	97.746083	38.280564	0	2371	98.063981	37.9590187	143.69758
2192	97.524359	38.1432483	160.186711	2282	97.548705	37.764847	72.0513363	2372	97.578386	37.966793	0
2193	97.524995	38.1467525	80.8436985	2283	97.89989	37.951893	69.6772451	2373	97.431098	37.9801563	159.689551
2194	97.495201	38.010334	42.5943146	2284	97.825142	37.9520839	117.960356	2374	97.834327	38.0890045	0
2195	97.505314	37.940403	110.664077	2285	97.999131	38.0752038	109	2375	97.833319	38.0881806	0
2196	97.888871	38.076365	0	2286	97.999131	38.0759809	0	2376	97.832972	38.0970229	0
2197	97.892141	38.0779064	2.92464961	2287	97.788881	37.988821	107	2377	97.856371	38.0580607	92.6438771
2198	97.942734	38.1004157	0.532666771	2288	97.815887	37.9813569	0	2378	97.605481	37.945125	36.5056421
2199	97.972874	38.104357	609.269267	2289	97.798061	37.988787	134	2379	97.705889	37.9012802	28
2200	97.916748	38.0301357	0	2290	97.732614	37.908636	64.7136268	2380	97.568253	38.189594	
2201	97.525219	37.868775	76.9511218	2291	97.95039	37.9551896	0	2381	97.834219	38.050717	0
2202	97.490629	38.0264894	0	2292	97.898445	37.9936519	0	2382	97.419932	37.7767962	19.0025502
2203	97.472617	37.8538018	108	2293	97.675319	38.1122188	0	2383	97.742973	37.935346	17
2204	97.467993	37.981361	128.432934	2294	97.95442	38.10695	58.573397	2384	97.71533	38.025569	65
2205	97.744925	38.271473	50.2683742	2295	98.100376	37.9375407	90.5935535	2385	97.94073	38.0591027	0.405983103
2206	97.46377	37.930592	122	2296	97.605345	38.0185558	32	2386	98.097068	37.9129482	0
2207	97.468149	37.9378335	52	2297	97.561991	38.0488792	70	2387	97.898429	37.9809808	125.661729
2208	97.697329	37.937916	53	2298	97.68938	38.248865	97.4064833	2388	97.948727	37.992017	113.2757
2209	98.03166	37.8028059	129.59727	2299	97.704726	38.269328	107.533811	2389	98.136091	38.150493	0.123399959
2210	98.068114	37.8171039	161.883806	2300	97.696514	38.263867	9.20666194	2390	97.683502	38.0382673	73
2211	98.06846	37.810211	184.375681	2301	97.553864	38.005867	49.8755566	2391	97.988209	37.8095108	0
2212	98.03166	37.8028059	0	2302	97.6604	37.8503978	52.8922728	2392	97.576245	38.1584107	7.18079736
2213	97.707985	38.429428	53.109857	2303	97.651539	38.163112	111.004723	2393	97.642339	38.1340568	84
2214	97.740629	38.438435	55.3596582	2304	97.65136	38.035999	52.4012509	2394	97.527678	37.8761198	69
2215	97.5944	37.7970581	69	2305	97.651587	38.0469997	0	2395	97.439108	37.7636248	0
2216	97.731202	37.994836	0	2306	97.706253	37.966999	87.0029553	2396	97.68506	38.442499	86
2217	97.730857	37.995743	0	2307	97.607117	38.012649	67	2397	97.656612	38.1342327	112
2218	97.60546	37.9050618	100	2308	97.498091	37.9632311	5.16666667	2398	97.858604	38.0809837	0
2219	97.628256	37.92325	103	2309	97.435503	37.857635	0.000306889	2399	97.761299	38.0608758	0
2220	97.541732	37.879771	30.3006589	2310	97.963271	37.8852503	0	2400	97.760257	38.0608758	0
2221	97.671769	38.3720902	203.68512	2311	97.964088	37.8854151	116.806454	2401	97.771579	38.059511	0
2222	97.703761	38.3336893	413.219539	2312	98.091432	37.944855	0	2402	97.44269	37.8129266	1325.75932
2223	97.799913	37.9199451	51	2313	97.468109	37.886852	37.1685218	2403	97.58171	38.1268538	0
2224	97.952809	38.0419407	485.621158	2314	98.137744	38.168389	123	2404	97.58244	38.1268538	0
2225	97.542118	38.1742698	104.382064	2315	97.670232	37.9022421	41	2405	98.036226	37.9736109	0
2226	97.569771	38.203099	43.7807464	2316	97.898209	38.155675	8.40976397	2406	97.706772	38.444889	70.4309638
2227	97.464133	37.998148	146.910705	2317	97.504842	37.850903	111.833333	2407	97.657301	38.4566888	0.152462322
2228	97.457018	38.007565	111.848667	2318	98.004508	37.7560879	190	2408	97.77266	38.4689185	79.3190753
2229	98.07985	38.1519196	36.0993215	2319	97.822749	38.0644783	0	2409	97.719421	38.438568	64.729585
2230	97.582677	37.886987	47.6389515	2320	97.72423	37.8761411	114.457221	2410	97.778942	37.75373	1.06966988
2231	97.341411	37.8029113	0	2321	97.403318	37.770547	0	2411	97.509782	37.911887	124.173318
2232	97.337441	37.8028811	0	2322	97.441994	37.8971994	0	2412	97.46322	37.875449	533.501508
2233	97.642333	37.9596489	170.783579	2323	97.609792	38.0579595	1.12954387	2413	97.610851	37.942966	323.96402
2234	97.65578	37.9724546	34	2324	97.532195	37.829081	0	2414	97.572814	37.905752	452.320232
2235	97.846675	38.0946833	2.13072846	2325	97.632156	38.2953712	0	2415	97.610363	37.978546	152.609628
2236	97.848279	38.093447	19.4057407	2326	97.531636	38.0614223	81.5	2416	97.464364	37.882588	195.043133
2237	97.84531	38.0951748	10.0908698	2327	98.03347	37.9894414	0	2417	97.568411	37.898055	441.511611
2238	97.8468	38.0906164	0.748501616	2328	97.702225	38.392197	31	2418	97.477175	37.857892	0
2239	98.123016	38.165699	26.5151864	2329	97.718262	38.421219	52	2419	97.587364	37.9887319	501.938002
2240	97.658125	38.148529	65	2330	97.990715	38.051507	84.5	2420	97.563574	37.969907	303.819844
2241	97.87375	37.9697999	16.1454162	2331	97.758702	38.416076	31	2421	97.537649	37.970897	346.296313
2242	97.742857	38.2834061	0	2332	97.421918	37.82859	71	2422	97.84113	37.986601	0
2243	97.735803	38.293059	0	2333	97.568764	37.7719793	0	2423	97.628323	38.1020045	61
2244	97.683363	38.173612	0	2334	97.866714	38.0588194	0	2424	97.404683	38.342511	0
2245	97.688419	38.1629706	0	2335	97.867558	38.0589265	0.039683782	2425	97.450681	38.2861485	0
2246	97.688089	38.240473	140.019825	2336	97.624659	37.7938196	0	2426	97.992286	38.0206893	0.010827034
2247	97.716522	38.178349	59.8893359	2337	97.633349	38.2357496	58.9984379	2427	97.974335	38.0319709	0.709314994
2248	97.57664	37.8052907	90	2338	98.031709	38.1405689	0	2428	97.879074	37.95998	84.6092232
2249	97.568469	37.803109	0	2339	98.036306	38.148097	98.243062	2429	97.724506	38.1736092	113
2250	97.458752	37.828559	164	2340	97.425705	38.303222	58.2855354	2430	97.455306	37.770263	0

No.	NAD27_LONGITUDE	NAD27_LATITUDE	AF_PUMPED
2431	97.66888	38.27138	40.2933242
2432	97.67562	38.257223	0
2433	97.901338	38.0689912	0
2434	97.906469	37.9534567	0
2435	97.906469	37.9523912	0
2436	97.84468	38.006698	0
2437	97.838495	38.006698	0
2438	97.505342	37.953028	0
2439	97.477019	38.046729	72
2440	98.054951	38.1476709	107
2441	98.027932	38.1479118	0
2442	97.601168	38.1743013	0
2443	97.499992	37.9468195	87
2444	97.499992	37.9468195	0
2445	97.646629	37.850441	40.3620059
2446	97.885262	38.071923	0.009206662
2447	97.891572	38.072009	0.371335365
2448	97.603264	37.8218539	0
2449	97.779616	37.9159019	118.965724
2450	97.716785	37.9095048	0
2451	97.99065	38.0797143	0
2452	98.016601	38.1025525	0
2453	98.014104	37.9735684	0
2454	97.540511	37.7387926	2.50145005
2455	97.500332	37.8552252	33.143983
2456	97.517811	37.785264	160.964696
2457	97.52568	37.776169	90.5129737
2458	97.424383	38.0057299	0
2459	97.425996	38.0064439	0
2460	97.9831	38.066163	0
2461	97.989948	38.078009	0
2462	97.495483	37.782066	29.6914848
2463	97.541412	37.9450159	22
2464	97.831442	38.029739	0
2465	98.026999	37.9737387	126
2466	97.614538	38.025029	0
2467	97.982181	37.9243633	0
2468	97.981432	37.9245418	117
2469	97.449695	38.0110787	47
2470	97.512072	37.861514	70.0000921
2471	97.724858	38.1194912	80.5
2472	97.80359	38.1261414	2.76393198
2473	97.930993	38.0655871	20.9497592
2474	97.944035	38.1650651	0.102347392

APPENDIX C - 2006 WATER BUDGET REPORT WITH ASR

2007
Accounting Model With ASR
Detailed Hydrostratigraphic Unit Water Budget

Summary of HSU Zone Number		1.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	36445.01
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		134765.10	0.00
ET		0.00	0.00
Storage		0.00	11625.10

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 2		0.00	366242.80
HSU Zone 4		145797.40	217267.30
HSU Zone 39		513720.00	162695.30
TOTAL FLOWS		794282.40	794275.50
Error		0.00	

Summary of HSU Zone Number		2.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		15712.83	34388.90
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		188018.80	0.00
ET		0.00	9492.07
Storage		0.00	21459.81

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 1		366242.80	0.00
HSU Zone 3		0.00	407309.90
HSU Zone 5		134312.40	225054.40
HSU Zone 6		0.00	27387.51
HSU Zone 39		156114.80	135322.90
TOTAL FLOWS		860401.60	860415.60
Error		0.00	

2007
Accounting Model With ASR
Detailed Hydrostratigraphic Unit Water Budget

Summary of HSU Zone Number		3.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	121916.40
Stream		0.00	604260.70
Lake		0.00	0.00
Recharge		166491.40	0.00
ET		0.00	40131.58
Storage		0.00	10544.40

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 2		407309.90	0.00
HSU Zone 6		124090.60	176422.90
HSU Zone 7		11013.65	28726.75
HSU Zone 39		398945.20	125904.60
TOTAL FLOWS		1107851.00	1107907.00
Error		-0.01	

Summary of HSU Zone Number		4.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	49819.09
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		189765.90	0.00
ET		0.00	0.00
Storage		0.00	17815.72

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 1		217267.30	145797.40
HSU Zone 5		0.00	495093.20
HSU Zone 8		84420.02	186039.80
HSU Zone 9		0.00	24367.78
HSU Zone 39		427493.50	0.00
TOTAL FLOWS		918946.60	918933.00
Error		0.00	

2007
Accounting Model With ASR
Detailed Hydrostratigraphic Unit Water Budget

Summary of HSU Zone Number		5.00	
Flows Within HSU	Inflow	Outflow	
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		52557.49	78549.78
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		184022.90	0.00
ET		0.00	1164.59
Storage		0.00	30841.14

Flows Between HSUs			
HSU Number	Inflow	Outflow	
HSU Zone 2		225054.40	134312.40
HSU Zone 4		495093.20	0.00
HSU Zone 6		0.00	465734.10
HSU Zone 9		11707.53	257768.90
TOTAL FLOWS		968435.60	968370.90
Error		0.01	

Summary of HSU Zone Number		6.00	
Flows Within HSU	Inflow	Outflow	
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	162890.60
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		104644.00	0.00
ET		0.00	26657.14
Storage		0.00	25631.97

Flows Between HSUs			
HSU Number	Inflow	Outflow	
HSU Zone 2		27387.51	0.00
HSU Zone 3		176422.90	124090.60
HSU Zone 5		465734.10	0.00
HSU Zone 7		0.00	227056.60
HSU Zone 9		4461.34	21110.28
HSU Zone 10		45772.77	225140.90
HSU Zone 11		0.00	11904.79
TOTAL FLOWS		824422.60	824483.00
Error		-0.01	

2007
Accounting Model With ASR
Detailed Hydrostratigraphic Unit Water Budget

Summary of HSU Zone Number		7.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	51394.17
Stream		2166.96	310181.10
Lake		0.00	0.00
Recharge		32101.85	0.00
ET		0.00	41301.61
Storage		0.00	2833.26
Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 3		28726.75	11013.65
HSU Zone 6		227056.60	0.00
HSU Zone 11		53663.27	92304.59
HSU Zone 39		198537.70	33293.06
TOTAL FLOWS		542253.10	542321.50
Error		-0.01	

Summary of HSU Zone Number		8.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	83496.15
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		160588.70	0.00
ET		0.00	0.00
Storage		0.00	39070.23
Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 4		186039.80	84420.02
HSU Zone 9		90.83	424907.40
HSU Zone 13		96288.20	169137.00
HSU Zone 39		357981.70	0.00
TOTAL FLOWS		800989.20	801030.80
Error		-0.01	

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Summary of HSU Zone Number		9.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		36707.04	77112.24
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		109041.50	0.00
ET		0.00	0.00
Storage		0.00	37937.61

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 4		24367.78	0.00
HSU Zone 5		257768.90	11707.53
HSU Zone 6		21110.28	4461.34
HSU Zone 8		424907.40	90.83
HSU Zone 10		6366.00	447034.40
HSU Zone 13		6266.13	0.00
HSU Zone 14		8237.09	289310.90
HSU Zone 15		0.00	27087.66
TOTAL FLOWS		894772.20	894742.50
Error		0.00	

Summary of HSU Zone Number		10.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	277071.30
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		188179.70	0.00
ET		0.00	0.00
Storage		0.00	33735.64

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 6		225140.90	45772.77
HSU Zone 9		447034.40	6366.00
HSU Zone 11		6554.64	317386.10
HSU Zone 15		17860.97	204444.50
TOTAL FLOWS		884770.70	884776.30
Error		0.00	

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Summary of HSU Zone Number		11.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	72563.62
Stream		0.00	69503.84
Lake		0.00	0.00
Recharge		130111.20	0.00
ET		0.00	10084.47
Storage		0.00	24207.92

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 6		11904.79	0.00
HSU Zone 7		92304.59	53663.27
HSU Zone 10		317386.10	6554.64
HSU Zone 12		8381.86	163432.40
HSU Zone 15		2931.68	3017.89
HSU Zone 16		399.04	168564.50
HSU Zone 39		8150.31	0.00
TOTAL FLOWS		571569.60	571592.50
Error		0.00	

Summary of HSU Zone Number		12.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	16557.32
Stream		21051.74	332653.20
Lake		0.00	0.00
Recharge		41219.77	0.00
ET		0.00	28748.74
Storage		0.00	3618.17

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 11		163432.40	8381.86
HSU Zone 16		0.00	295.98
HSU Zone 17		12094.15	94944.77
HSU Zone 39		289594.70	42211.65
TOTAL FLOWS		527392.80	527411.70
Error		0.00	

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Summary of HSU Zone Number		13.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	44966.28
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		175307.80	0.00
ET		0.00	0.00
Storage		0.00	159386.10

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 8		169137.00	96288.20
HSU Zone 9		0.00	6266.13
HSU Zone 14		0.00	324173.80
HSU Zone 18		143660.00	180814.20
HSU Zone 19		0.00	22172.34
HSU Zone 39		345885.10	0.00
TOTAL FLOWS		833990.00	834067.10
Error		-0.01	

Summary of HSU Zone Number		14.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		24502.84	268698.50
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		106370.80	0.00
ET		0.00	0.00
Storage		0.00	66515.01

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 9		289310.90	8237.09
HSU Zone 13		324173.80	0.00
HSU Zone 15		4092.54	300685.70
HSU Zone 19		59332.57	163590.40
TOTAL FLOWS		807783.40	807726.70
Error		0.01	

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Summary of HSU Zone Number		15.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	263195.90
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		182275.90	0.00
ET		0.00	0.00
Storage		0.00	36713.79

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 9		27087.66	0.00
HSU Zone 10		204444.50	17860.97
HSU Zone 11		3017.89	2931.68
HSU Zone 14		300685.70	4092.54
HSU Zone 16		17874.75	253952.80
HSU Zone 19		2064.96	0.00
HSU Zone 20		23008.27	164640.90
HSU Zone 21		0.00	17020.78
TOTAL FLOWS		760459.60	760409.40
Error		0.01	

Summary of HSU Zone Number		16.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	250439.70
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		188179.70	0.00
ET		0.00	2199.36
Storage		0.00	35764.40

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 11		168564.50	399.04
HSU Zone 12		295.98	0.00
HSU Zone 15		253952.80	17874.75
HSU Zone 17		27629.82	184616.10
HSU Zone 21		434.28	147768.60
TOTAL FLOWS		639057.10	639061.90
Error		0.00	

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Summary of HSU Zone Number		17.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	92294.14
Stream		28599.00	120380.30
Lake		0.00	0.00
Recharge		201933.50	0.00
ET		0.00	75804.94
Storage		0.00	15902.36

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 12		94944.77	12094.15
HSU Zone 16		184616.10	27629.82
HSU Zone 22		0.00	151830.10
HSU Zone 23		0.00	84867.87
HSU Zone 39		124028.20	53256.45
TOTAL FLOWS		634121.60	634060.10
Error		0.01	

Summary of HSU Zone Number		18.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	142828.90
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		173962.30	0.00
ET		0.00	1097.56
Storage		0.00	149201.00

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 13		180814.20	143660.00
HSU Zone 19		0.00	236335.40
HSU Zone 24		98779.99	70497.11
HSU Zone 39		290055.70	0.00
TOTAL FLOWS		743612.20	743620.00
Error		0.00	

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Summary of HSU Zone Number		19.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	148155.30
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		176111.00	0.00
ET		0.00	0.00
Storage		0.00	61109.12

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 13		22172.34	0.00
HSU Zone 14		163590.40	59332.57
HSU Zone 15		0.00	2064.96
HSU Zone 18		236335.40	0.00
HSU Zone 20		721.28	303062.00
HSU Zone 24		5942.91	0.00
HSU Zone 25		85177.34	95095.52
HSU Zone 26		0.00	21266.96
TOTAL FLOWS		690050.70	690086.40
Error		-0.01	

Summary of HSU Zone Number		20.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	64408.74
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		142797.30	0.00
ET		0.00	0.00
Storage		0.00	29565.87

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 15		164640.90	23008.27
HSU Zone 19		303062.00	721.28
HSU Zone 21		10482.20	357562.20
HSU Zone 26		34053.39	179803.70
TOTAL FLOWS		655035.90	655070.00
Error		-0.01	

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Summary of HSU Zone Number		21.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	206891.30
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		129784.80	0.00
ET		0.00	743.70
Storage		0.00	34337.44

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 15		17020.78	0.00
HSU Zone 16		147768.60	434.28
HSU Zone 20		357562.20	10482.20
HSU Zone 22		26764.98	223342.20
HSU Zone 27		19959.84	194511.10
HSU Zone 28		0.00	28129.35
TOTAL FLOWS		698861.20	698871.60
Error		0.00	

Summary of HSU Zone Number		22.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	137826.70
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		142556.60	0.00
ET		0.00	9933.68
Storage		0.00	33993.20

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 17		151830.10	0.00
HSU Zone 21		223342.20	26764.98
HSU Zone 23		44232.25	150269.00
HSU Zone 28		0.00	203176.10
TOTAL FLOWS		561961.10	561963.70
Error		0.00	

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Summary of HSU Zone Number		23.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	90633.35
Stream		65371.65	110946.50
Lake		0.00	0.00
Recharge		51415.16	0.00
ET		0.00	15011.08
Storage		0.00	14298.67
Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 17		84867.87	0.00
HSU Zone 22		150269.00	44232.25
HSU Zone 28		0.00	4462.37
HSU Zone 29		0.00	173346.90
HSU Zone 39		116757.10	15847.51
TOTAL FLOWS		468680.80	468778.60
Error		-0.02	

Summary of HSU Zone Number		24.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	90068.81
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		78418.73	0.00
ET		0.00	8807.74
Storage		0.00	14281.63
Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 18		70497.11	98779.99
HSU Zone 19		0.00	5942.91
HSU Zone 25		0.00	181162.20
HSU Zone 39		347353.70	97227.43
TOTAL FLOWS		496269.60	496270.70
Error		0.00	

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Summary of HSU Zone Number		25.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	177960.50
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		94744.28	0.00
ET		0.00	378.47
Storage		207.46	10405.43

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 19		95095.52	85177.34
HSU Zone 24		181162.20	0.00
HSU Zone 26		0.00	179171.10
HSU Zone 30		0.00	10671.13
HSU Zone 39		146515.90	53974.54
TOTAL FLOWS		517725.40	517738.50
Error		0.00	

Summary of HSU Zone Number		26.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	239734.80
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		129664.40	0.00
ET		0.00	0.00
Storage		3615.43	6271.51

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 19		21266.96	0.00
HSU Zone 20		179803.70	34053.39
HSU Zone 25		179171.10	0.00
HSU Zone 27		6158.77	250130.30
HSU Zone 30		84067.23	73563.09
TOTAL FLOWS		603747.60	603753.10
Error		0.00	

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Summary of HSU Zone Number		27.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	176405.00
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		101832.70	0.00
ET		0.00	0.00
Storage		18.05	22555.82

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 21		194511.10	19959.84
HSU Zone 26		250130.30	6158.77
HSU Zone 28		0.00	287086.30
HSU Zone 30		0.00	1656.45
HSU Zone 31		48367.87	81054.17
TOTAL FLOWS		594860.00	594876.30
Error		0.00	

Summary of HSU Zone Number		28.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	378748.60
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		101290.50	0.00
ET		0.00	0.00
Storage		0.00	42075.44

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 21		28129.35	0.00
HSU Zone 22		203176.10	0.00
HSU Zone 23		4462.37	0.00
HSU Zone 27		287086.30	0.00
HSU Zone 29		68869.80	138414.70
HSU Zone 31		1888.42	0.00
HSU Zone 32		9151.73	121157.80
HSU Zone 33		0.00	23670.89
TOTAL FLOWS		704054.60	704067.40
Error		0.00	

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Summary of HSU Zone Number		29.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	71955.95
Stream		16766.98	37627.86
Lake		0.00	0.00
Recharge		59787.12	0.00
ET		0.00	16503.20
Storage		0.00	31022.39

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 23		173346.90	0.00
HSU Zone 28		138414.70	68869.80
HSU Zone 33		0.00	147232.80
HSU Zone 34		0.00	28073.91
HSU Zone 39		23741.38	10837.85
TOTAL FLOWS		412057.10	412123.80
Error		-0.02	

Summary of HSU Zone Number		30.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	334434.50
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		74643.33	0.00
ET		0.00	13336.86
Storage		7859.38	1.53

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 25		10671.13	0.00
HSU Zone 26		73563.09	84067.23
HSU Zone 27		1656.45	0.00
HSU Zone 31		22856.27	133794.50
HSU Zone 39		406582.90	32205.76
TOTAL FLOWS		597832.60	597840.30
Error		0.00	

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Summary of HSU Zone Number		31.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	166316.10
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		86952.74	0.00
ET		0.00	10.01
Storage		439.83	11938.00

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 27		81054.17	48367.87
HSU Zone 28		0.00	1888.42
HSU Zone 30		133794.50	22856.27
HSU Zone 32		0.00	185548.40
HSU Zone 35		169971.70	49602.94
HSU Zone 36		0.00	7538.12
HSU Zone 39		21843.87	0.00
TOTAL FLOWS		494056.70	494066.20
Error		0.00	

Summary of HSU Zone Number		32.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	267745.00
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		119764.70	0.00
ET		0.00	0.00
Storage		0.00	31963.07

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 28		121157.80	9151.73
HSU Zone 31		185548.40	0.00
HSU Zone 33		0.00	155870.60
HSU Zone 36		95043.62	56796.50
TOTAL FLOWS		521514.60	521526.90
Error		0.00	

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Summary of HSU Zone Number		33.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	349404.30
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		107717.50	0.00
ET		0.00	0.00
Storage		0.00	30179.92

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 28		23670.89	0.00
HSU Zone 29		147232.80	0.00
HSU Zone 32		155870.60	0.00
HSU Zone 34		20630.81	73358.59
HSU Zone 36		7312.33	0.00
HSU Zone 37		39246.67	48751.24
TOTAL FLOWS		501681.60	501694.00
Error		0.00	

Summary of HSU Zone Number		34.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	28179.80
Stream		98414.05	100021.00
Lake		0.00	0.00
Recharge		13832.51	0.00
ET		0.00	11416.81
Storage		0.70	7209.86

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 29		28073.91	0.00
HSU Zone 33		73358.59	20630.81
HSU Zone 37		141.64	0.00
HSU Zone 38		2092.70	41100.24
HSU Zone 39		32361.18	39827.24
TOTAL FLOWS		248275.30	248385.80
Error		-0.04	

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Summary of HSU Zone Number		35.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	42342.92
Stream		197865.70	542.39
Lake		0.00	0.00
Recharge		43063.46	0.00
ET		0.00	5604.31
Storage		0.10	3505.57

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 31		49602.94	169971.70
HSU Zone 36		0.00	143554.90
HSU Zone 39		191834.20	116965.90
TOTAL FLOWS		482366.50	482487.60
Error		-0.03	

Summary of HSU Zone Number		36.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	119140.70
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		48022.28	0.00
ET		0.00	145.79
Storage		0.00	13689.41

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 31		7538.12	0.00
HSU Zone 32		56796.50	95043.62
HSU Zone 33		0.00	7312.33
HSU Zone 35		143554.90	0.00
HSU Zone 37		0.00	81558.14
HSU Zone 39		135915.60	74943.56
TOTAL FLOWS		391827.40	391833.50
Error		0.00	

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Summary of HSU Zone Number		37.00	
Flows Within HSU	Inflow	Outflow	
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	91248.81
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		48544.26	0.00
ET		0.00	1.73
Storage		0.00	21259.84
Flows Between HSUs			
HSU Number	Inflow	Outflow	
HSU Zone 33		48751.24	39246.67
HSU Zone 34		0.00	141.64
HSU Zone 36		81558.14	0.00
HSU Zone 38		0.00	24485.07
HSU Zone 39		50042.68	52518.74
TOTAL FLOWS		228896.30	228902.50
Error		0.00	

Summary of HSU Zone Number		38.00	
Flows Within HSU	Inflow	Outflow	
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	8909.73
Stream		6161.44	50112.18
Lake		0.00	0.00
Recharge		27926.00	0.00
ET		0.00	8777.61
Storage		4.98	11242.39
Flows Between HSUs			
HSU Number	Inflow	Outflow	
HSU Zone 34		41100.24	2092.70
HSU Zone 37		24485.07	0.00
HSU Zone 39		32923.85	51486.89
TOTAL FLOWS		132601.60	132621.50
Error		-0.02	

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Summary of HSU Zone Number	39.00	
Flows Within HSU	Inflow	Outflow
Constant Head	4021940.00	909614.20
River	0.00	0.00
Drain	0.00	0.00
GHB	0.00	0.00
Well	0.00	4308654.00
Stream	3771353.00	4731762.00
Lake	0.00	0.00
Recharge	7422159.00	0.00
ET	0.00	876612.80
Storage	148684.80	1026885.00
Flows Between HSUs		
HSU Number	Inflow	Outflow
HSU Zone 1	162695.30	513720.00
HSU Zone 2	135322.90	156114.80
HSU Zone 3	125904.60	398945.20
HSU Zone 4	0.00	427493.50
HSU Zone 7	33293.06	198537.70
HSU Zone 8	0.00	357981.70
HSU Zone 11	0.00	8150.31
HSU Zone 12	42211.65	289594.70
HSU Zone 13	0.00	345885.10
HSU Zone 17	53256.45	124028.20
HSU Zone 18	0.00	290055.70
HSU Zone 23	15847.51	116757.10
HSU Zone 24	97227.43	347353.70
HSU Zone 25	53974.54	146515.90
HSU Zone 29	10837.85	23741.38
HSU Zone 30	32205.76	406582.90
HSU Zone 31	0.00	21843.87
HSU Zone 34	39827.24	32361.18
HSU Zone 35	116965.90	191834.20
HSU Zone 36	74943.56	135915.60
HSU Zone 37	52518.74	50042.68
HSU Zone 38	51486.89	32923.85
TOTAL FLOWS	16462660.00	16469910.00
Error	-0.04	

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Summary of HSU Zone Number		1.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	36445.01
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		134765.10	0.00
ET		0.00	0.00
Storage		11.32	6574.36

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 2		0.00	373462.60
HSU Zone 4		147093.60	220932.90
HSU Zone 39		517083.00	161536.10
TOTAL FLOWS		798953.00	798951.00
Error		0.00	

Summary of HSU Zone Number		2.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	34388.90
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		188018.80	0.00
ET		0.00	9284.26
Storage		0.00	15245.36

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 1		373462.60	0.00
HSU Zone 3		0.00	393656.20
HSU Zone 5		118737.40	227282.60
HSU Zone 6		0.00	26735.36
HSU Zone 39		157021.00	130660.40
TOTAL FLOWS		837239.80	837253.10
Error		0.00	

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Summary of HSU Zone Number		3.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	11804.91
Stream		0.00	686104.10
Lake		0.00	0.00
Recharge		166491.40	0.00
ET		0.00	40631.82
Storage		0.00	8238.62

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 2		393656.20	0.00
HSU Zone 6		115372.50	174977.80
HSU Zone 7		10813.99	28759.87
HSU Zone 39		394219.90	130106.80
TOTAL FLOWS		1080554.00	1080624.00
Error		-0.01	

Summary of HSU Zone Number		4.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	49819.09
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		189765.90	0.00
ET		0.00	0.00
Storage		0.00	10804.32

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 1		220932.90	147093.60
HSU Zone 5		0.00	509261.60
HSU Zone 8		88477.20	187584.00
HSU Zone 9		0.00	24771.58
HSU Zone 39		430166.50	0.00
TOTAL FLOWS		929342.50	929334.20
Error		0.00	

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Summary of HSU Zone Number		5.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	78549.78
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		184022.90	0.00
ET		0.00	932.53
Storage		0.00	21846.08

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 2		227282.60	118737.40
HSU Zone 4		509261.60	0.00
HSU Zone 6		0.00	448628.20
HSU Zone 9		6191.58	258012.10
TOTAL FLOWS		926758.80	926706.00
Error		0.01	

Summary of HSU Zone Number		6.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	162890.60
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		104644.00	0.00
ET		0.00	26095.25
Storage		0.00	20039.86

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 2		26735.36	0.00
HSU Zone 3		174977.80	115372.50
HSU Zone 5		448628.20	0.00
HSU Zone 7		0.00	224801.80
HSU Zone 9		4026.99	20785.77
HSU Zone 10		43694.63	221014.90
HSU Zone 11		0.00	11758.56
TOTAL FLOWS		802707.00	802759.30
Error		-0.01	

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Summary of HSU Zone Number		7.00	
Flows Within HSU	Inflow	Outflow	
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	51394.17
Stream		2231.20	308263.80
Lake		0.00	0.00
Recharge		32101.85	0.00
ET		0.00	41260.35
Storage		0.00	2473.13
Flows Between HSUs			
HSU Number	Inflow	Outflow	
HSU Zone 3		28759.87	10813.99
HSU Zone 6		224801.80	0.00
HSU Zone 11		52614.13	91903.57
HSU Zone 39		198781.90	33257.24
TOTAL FLOWS		539290.80	539366.30
Error		-0.01	

Summary of HSU Zone Number		8.00	
Flows Within HSU	Inflow	Outflow	
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	83496.15
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		160588.70	0.00
ET		0.00	0.00
Storage		0.00	33647.77
Flows Between HSUs			
HSU Number	Inflow	Outflow	
HSU Zone 4		187584.00	88477.20
HSU Zone 9		0.00	430921.30
HSU Zone 13		98397.00	169331.40
HSU Zone 39		359265.50	0.00
TOTAL FLOWS		805835.20	805873.90
Error		0.00	

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Summary of HSU Zone Number		9.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	77112.24
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		109041.50	0.00
ET		0.00	0.00
Storage		0.00	30286.22

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 4		24771.58	0.00
HSU Zone 5		258012.10	6191.58
HSU Zone 6		20785.77	4026.99
HSU Zone 8		430921.30	0.00
HSU Zone 10		5474.43	436406.20
HSU Zone 13		6524.16	0.00
HSU Zone 14		9424.87	284141.50
HSU Zone 15		0.00	26767.21
TOTAL FLOWS		864955.80	864932.00
Error		0.00	

Summary of HSU Zone Number		10.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	277071.30
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		188179.70	0.00
ET		0.00	0.00
Storage		0.00	28364.77

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 6		221014.90	43694.63
HSU Zone 9		436406.20	5474.43
HSU Zone 11		6567.55	313933.70
HSU Zone 15		18606.31	202241.10
TOTAL FLOWS		870774.70	870780.00
Error		0.00	

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Summary of HSU Zone Number		11.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	72563.62
Stream		0.00	69301.52
Lake		0.00	0.00
Recharge		130111.20	0.00
ET		0.00	10053.34
Storage		0.00	22416.39

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 6		11758.56	0.00
HSU Zone 7		91903.57	52614.13
HSU Zone 10		313933.70	6567.55
HSU Zone 12		8387.19	163131.60
HSU Zone 15		2937.69	3003.34
HSU Zone 16		400.71	167955.70
HSU Zone 39		8150.63	0.00
TOTAL FLOWS		567583.30	567607.20
Error		0.00	

Summary of HSU Zone Number		12.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	16557.32
Stream		21110.50	332519.50
Lake		0.00	0.00
Recharge		41219.77	0.00
ET		0.00	28747.49
Storage		0.00	3539.46

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 11		163131.60	8387.19
HSU Zone 16		0.00	299.49
HSU Zone 17		12061.00	94883.72
HSU Zone 39		289602.70	42211.39
TOTAL FLOWS		527125.50	527145.50
Error		0.00	

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Summary of HSU Zone Number		13.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	44966.28
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		175307.80	0.00
ET		0.00	0.00
Storage		0.00	157270.00

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 8		169331.40	98397.00
HSU Zone 9		0.00	6524.16
HSU Zone 14		0.00	324828.20
HSU Zone 18		144052.90	180819.20
HSU Zone 19		0.00	22164.12
HSU Zone 39		346206.30	0.00
TOTAL FLOWS		834898.50	834969.00
Error		-0.01	

Summary of HSU Zone Number		14.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		24502.84	268698.50
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		106370.80	0.00
ET		0.00	0.00
Storage		0.00	62880.98

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 9		284141.50	9424.87
HSU Zone 13		324828.20	0.00
HSU Zone 15		3560.56	299173.40
HSU Zone 19		60146.88	163328.00
TOTAL FLOWS		803550.90	803505.70
Error		0.01	

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Summary of HSU Zone Number		15.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	263195.90
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		182275.90	0.00
ET		0.00	0.00
Storage		0.00	34095.81

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 9		26767.21	0.00
HSU Zone 10		202241.10	18606.31
HSU Zone 11		3003.34	2937.69
HSU Zone 14		299173.40	3560.56
HSU Zone 16		17759.93	253067.10
HSU Zone 19		2110.85	0.00
HSU Zone 20		23428.03	164264.40
HSU Zone 21		0.00	16993.50
TOTAL FLOWS		756759.80	756721.30
Error		0.01	

Summary of HSU Zone Number		16.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	250439.70
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		188179.70	0.00
ET		0.00	2186.98
Storage		0.00	34713.69

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 11		167955.70	400.71
HSU Zone 12		299.49	0.00
HSU Zone 15		253067.10	17759.93
HSU Zone 17		27627.94	184468.50
HSU Zone 21		440.99	147605.80
TOTAL FLOWS		637571.00	637575.40
Error		0.00	

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Summary of HSU Zone Number		17.00	
Flows Within HSU	Inflow	Outflow	
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	92294.14
Stream		28600.53	120361.90
Lake		0.00	0.00
Recharge		201933.50	0.00
ET		0.00	75799.19
Storage		0.00	15773.85
Flows Between HSUs			
HSU Number	Inflow	Outflow	
HSU Zone 12		94883.72	12061.00
HSU Zone 16		184468.50	27627.94
HSU Zone 22		0.00	151812.40
HSU Zone 23		0.00	84867.84
HSU Zone 39		124028.90	53256.16
TOTAL FLOWS		633915.20	633854.40
Error		0.01	

Summary of HSU Zone Number		18.00	
Flows Within HSU	Inflow	Outflow	
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	142828.90
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		173962.30	0.00
ET		0.00	1097.05
Storage		0.00	148785.20
Flows Between HSUs			
HSU Number	Inflow	Outflow	
HSU Zone 13		180819.20	144052.90
HSU Zone 19		0.00	236433.80
HSU Zone 24		98798.73	70495.36
HSU Zone 39		290107.20	0.00
TOTAL FLOWS		743687.40	743693.20
Error		0.00	

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Summary of HSU Zone Number		19.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	148155.30
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		176111.00	0.00
ET		0.00	0.00
Storage		0.00	60286.63

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 13		22164.12	0.00
HSU Zone 14		163328.00	60146.88
HSU Zone 15		0.00	2110.85
HSU Zone 18		236433.80	0.00
HSU Zone 20		677.63	302893.50
HSU Zone 24		5945.23	0.00
HSU Zone 25		85243.76	95081.13
HSU Zone 26		0.00	21261.18
TOTAL FLOWS		689903.50	689935.50
Error		0.00	

Summary of HSU Zone Number		20.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	64408.74
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		142797.30	0.00
ET		0.00	0.00
Storage		0.00	28905.77

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 15		164264.40	23428.03
HSU Zone 19		302893.50	677.63
HSU Zone 21		10422.18	357369.50
HSU Zone 26		34132.37	179752.60
TOTAL FLOWS		654509.90	654542.20
Error		0.00	

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Summary of HSU Zone Number		21.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	206891.30
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		129784.80	0.00
ET		0.00	741.80
Storage		0.00	34088.32

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 15		16993.50	0.00
HSU Zone 16		147605.80	440.99
HSU Zone 20		357369.50	10422.18
HSU Zone 22		26761.59	223304.90
HSU Zone 27		19971.24	194478.80
HSU Zone 28		0.00	28127.99
TOTAL FLOWS		698486.50	698496.30
Error		0.00	

Summary of HSU Zone Number		22.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	137826.70
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		142556.60	0.00
ET		0.00	9932.28
Storage		0.00	33953.24

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 17		151812.40	0.00
HSU Zone 21		223304.90	26761.59
HSU Zone 23		44232.77	150264.60
HSU Zone 28		0.00	203170.90
TOTAL FLOWS		561906.70	561909.40
Error		0.00	

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Summary of HSU Zone Number		23.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	90633.35
Stream		65372.77	110946.40
Lake		0.00	0.00
Recharge		51415.16	0.00
ET		0.00	15011.01
Storage		0.00	14296.46
Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 17		84867.84	0.00
HSU Zone 22		150264.60	44232.77
HSU Zone 28		0.00	4462.36
HSU Zone 29		0.00	173346.20
HSU Zone 39		116757.40	15847.51
TOTAL FLOWS		468677.80	468776.00
Error		-0.02	

Summary of HSU Zone Number		24.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	90068.81
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		78418.73	0.00
ET		0.00	8807.31
Storage		0.00	14258.43
Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 18		70495.36	98798.73
HSU Zone 19		0.00	5945.23
HSU Zone 25		0.00	181164.50
HSU Zone 39		347355.50	97227.31
TOTAL FLOWS		496269.60	496270.30
Error		0.00	

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Summary of HSU Zone Number		25.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	177960.50
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		94744.28	0.00
ET		0.00	378.46
Storage		209.62	10328.26

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 19		95081.13	85243.76
HSU Zone 24		181164.50	0.00
HSU Zone 26		0.00	179173.40
HSU Zone 30		0.00	10671.07
HSU Zone 39		146517.40	53974.33
TOTAL FLOWS		517716.90	517729.70
Error		0.00	

Summary of HSU Zone Number		26.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	239734.80
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		129664.40	0.00
ET		0.00	0.00
Storage		3632.29	6180.26

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 19		21261.18	0.00
HSU Zone 20		179752.60	34132.37
HSU Zone 25		179173.40	0.00
HSU Zone 27		6156.38	250109.10
HSU Zone 30		84070.80	73561.06
TOTAL FLOWS		603711.00	603717.50
Error		0.00	

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Summary of HSU Zone Number		27.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	176405.00
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		101832.70	0.00
ET		0.00	0.00
Storage		18.35	22506.96

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 21		194478.80	19971.24
HSU Zone 26		250109.10	6156.38
HSU Zone 28		0.00	287079.00
HSU Zone 30		0.00	1656.02
HSU Zone 31		48371.47	81051.68
TOTAL FLOWS		594810.40	594826.30
Error		0.00	

Summary of HSU Zone Number		28.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	378748.60
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		101290.50	0.00
ET		0.00	0.00
Storage		0.00	42064.95

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 21		28127.99	0.00
HSU Zone 22		203170.90	0.00
HSU Zone 23		4462.36	0.00
HSU Zone 27		287079.00	0.00
HSU Zone 29		68869.70	138413.40
HSU Zone 31		1888.49	0.00
HSU Zone 32		9151.93	121156.90
HSU Zone 33		0.00	23670.86
TOTAL FLOWS		704040.90	704054.70
Error		0.00	

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Summary of HSU Zone Number		29.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	71955.95
Stream		16766.97	37627.88
Lake		0.00	0.00
Recharge		59787.12	0.00
ET		0.00	16503.21
Storage		0.00	31020.80
Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 23		173346.20	0.00
HSU Zone 28		138413.40	68869.70
HSU Zone 33		0.00	147232.80
HSU Zone 34		0.00	28073.92
HSU Zone 39		23741.36	10837.92
TOTAL FLOWS		412055.00	412122.20
Error		-0.02	

Summary of HSU Zone Number		30.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	334434.50
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		74643.33	0.00
ET		0.00	13336.85
Storage		7865.41	1.53
Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 25		10671.07	0.00
HSU Zone 26		73561.06	84070.80
HSU Zone 27		1656.02	0.00
HSU Zone 31		22856.67	133794.70
HSU Zone 39		406583.00	32205.75
TOTAL FLOWS		597836.50	597844.10
Error		0.00	

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Summary of HSU Zone Number		31.00	
Flows Within HSU	Inflow	Outflow	
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	166316.10
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		86952.74	0.00
ET		0.00	10.01
Storage		440.81	11934.01

Flows Between HSUs			
HSU Number	Inflow	Outflow	
HSU Zone 27		81051.68	48371.47
HSU Zone 28		0.00	1888.49
HSU Zone 30		133794.70	22856.67
HSU Zone 32		0.00	185548.00
HSU Zone 35		169971.80	49602.88
HSU Zone 36		0.00	7538.12
HSU Zone 39		21843.90	0.00
TOTAL FLOWS		494055.60	494065.80
Error		0.00	

Summary of HSU Zone Number		32.00	
Flows Within HSU	Inflow	Outflow	
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	267745.00
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		119764.70	0.00
ET		0.00	0.00
Storage		0.00	31961.93

Flows Between HSUs			
HSU Number	Inflow	Outflow	
HSU Zone 28		121156.90	9151.93
HSU Zone 31		185548.00	0.00
HSU Zone 33		0.00	155870.50
HSU Zone 36		95043.69	56796.52
TOTAL FLOWS		521513.40	521525.80
Error		0.00	

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Summary of HSU Zone Number		33.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	349404.30
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		107717.50	0.00
ET		0.00	0.00
Storage		0.00	30179.78

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 28		23670.86	0.00
HSU Zone 29		147232.80	0.00
HSU Zone 32		155870.50	0.00
HSU Zone 34		20630.80	73358.68
HSU Zone 36		7312.33	0.00
HSU Zone 37		39246.66	48751.25
TOTAL FLOWS		501681.30	501694.00
Error		0.00	

Summary of HSU Zone Number		34.00	
Flows Within HSU	Inflow		Outflow
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	28179.80
Stream		98414.01	100021.00
Lake		0.00	0.00
Recharge		13832.51	0.00
ET		0.00	11416.81
Storage		0.70	7209.96

Flows Between HSUs			
HSU Number	Inflow		Outflow
HSU Zone 29		28073.92	0.00
HSU Zone 33		73358.68	20630.80
HSU Zone 37		141.65	0.00
HSU Zone 38		2092.69	41100.28
HSU Zone 39		32361.18	39827.24
TOTAL FLOWS		248275.30	248385.90
Error		-0.04	

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Summary of HSU Zone Number		35.00	
Flows Within HSU	Inflow	Outflow	
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	42342.92
Stream		197865.60	542.39
Lake		0.00	0.00
Recharge		43063.46	0.00
ET		0.00	5604.32
Storage		0.10	3505.53
Flows Between HSUs			
HSU Number	Inflow	Outflow	
HSU Zone 31		49602.88	169971.80
HSU Zone 36		0.00	143554.90
HSU Zone 39		191834.10	116965.90
TOTAL FLOWS		482366.20	482487.80
Error		-0.03	

Summary of HSU Zone Number		36.00	
Flows Within HSU	Inflow	Outflow	
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	119140.70
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		48022.28	0.00
ET		0.00	145.79
Storage		0.00	13689.43
Flows Between HSUs			
HSU Number	Inflow	Outflow	
HSU Zone 31		7538.12	0.00
HSU Zone 32		56796.52	95043.69
HSU Zone 33		0.00	7312.33
HSU Zone 35		143554.90	0.00
HSU Zone 37		0.00	81558.16
HSU Zone 39		135915.60	74943.59
TOTAL FLOWS		391827.40	391833.70
Error		0.00	

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Summary of HSU Zone Number		37.00	
Flows Within HSU	Inflow	Outflow	
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	91248.81
Stream		0.00	0.00
Lake		0.00	0.00
Recharge		48544.26	0.00
ET		0.00	1.73
Storage		0.00	21259.94
Flows Between HSUs			
HSU Number	Inflow	Outflow	
HSU Zone 33		48751.25	39246.66
HSU Zone 34		0.00	141.65
HSU Zone 36		81558.16	0.00
HSU Zone 38		0.00	24485.10
HSU Zone 39		50042.69	52518.74
TOTAL FLOWS		228896.40	228902.60
Error		0.00	

Summary of HSU Zone Number		38.00	
Flows Within HSU	Inflow	Outflow	
Constant Head		0.00	0.00
River		0.00	0.00
Drain		0.00	0.00
GHB		0.00	0.00
Well		0.00	8909.73
Stream		6161.45	50112.17
Lake		0.00	0.00
Recharge		27926.00	0.00
ET		0.00	8777.61
Storage		4.98	11242.59
Flows Between HSUs			
HSU Number	Inflow	Outflow	
HSU Zone 34		41100.28	2092.69
HSU Zone 37		24485.10	0.00
HSU Zone 39		32923.80	51486.92
TOTAL FLOWS		132601.60	132621.70
Error		-0.02	

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Summary of HSU Zone Number	39.00	
Flows Within HSU	Inflow	Outflow
Constant Head	4020704.00	909614.30
River	0.00	0.00
Drain	0.00	0.00
GHB	0.00	0.00
Well	0.00	4308654.00
Stream	3771358.00	4735285.00
Lake	0.00	0.00
Recharge	7422159.00	0.00
ET	0.00	876546.30
Storage	151602.60	1019340.00
Flows Between HSUs		
HSU Number	Inflow	Outflow
HSU Zone 1	161536.10	517083.00
HSU Zone 2	130660.40	157021.00
HSU Zone 3	130106.80	394219.90
HSU Zone 4	0.00	430166.50
HSU Zone 7	33257.24	198781.90
HSU Zone 8	0.00	359265.50
HSU Zone 11	0.00	8150.63
HSU Zone 12	42211.39	289602.70
HSU Zone 13	0.00	346206.30
HSU Zone 17	53256.16	124028.90
HSU Zone 18	0.00	290107.20
HSU Zone 23	15847.51	116757.40
HSU Zone 24	97227.31	347355.50
HSU Zone 25	53974.33	146517.40
HSU Zone 29	10837.92	23741.36
HSU Zone 30	32205.75	406583.00
HSU Zone 31	0.00	21843.90
HSU Zone 34	39827.24	32361.18
HSU Zone 35	116965.90	191834.10
HSU Zone 36	74943.59	135915.60
HSU Zone 37	52518.74	50042.69
HSU Zone 38	51486.92	32923.80
TOTAL FLOWS	16462690.00	16469950.00
Error	-0.04	