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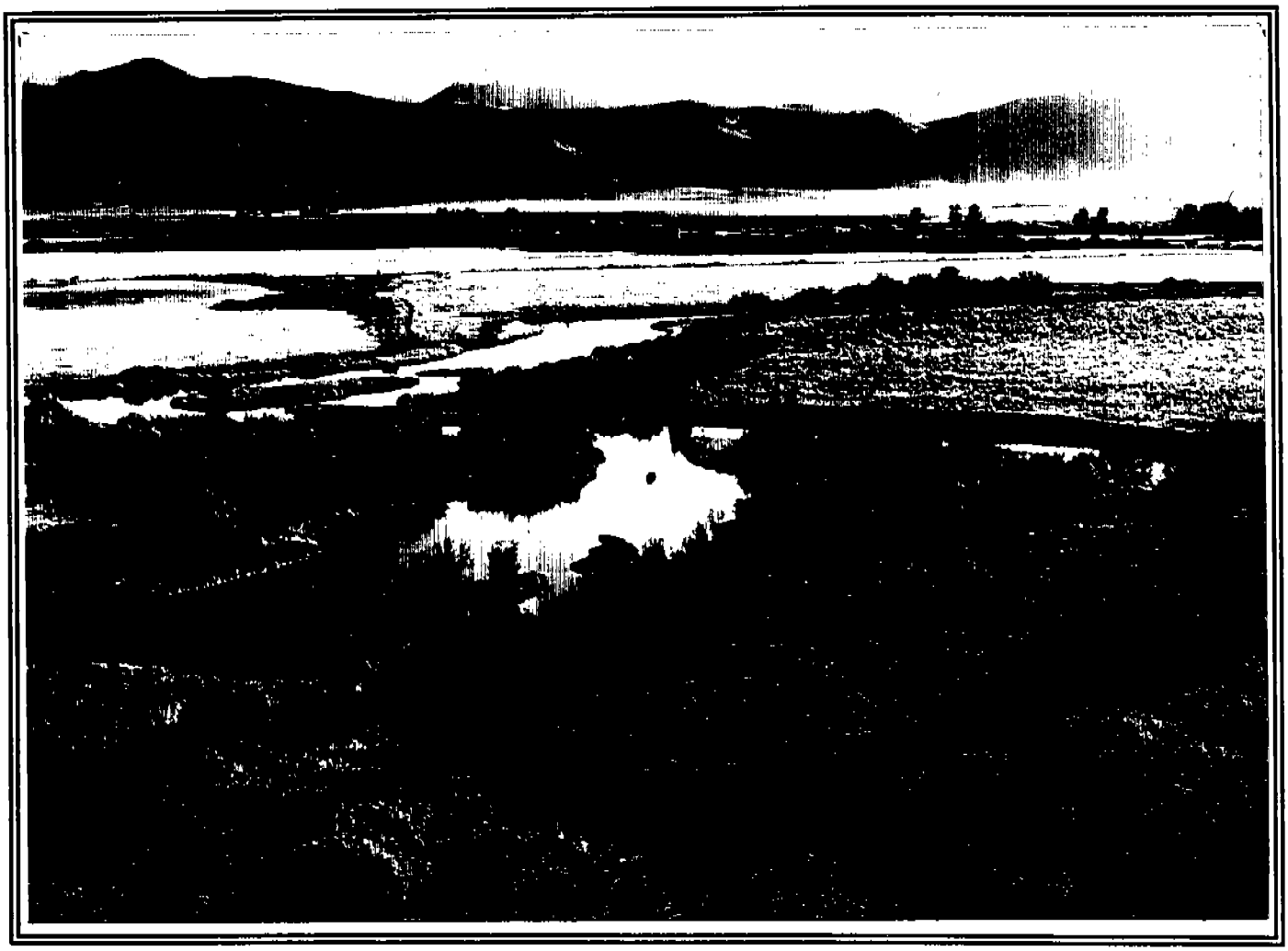
Hydrologic Evaluation of The Big Wood River and Silver Creek Watersheds

Phase I
Final Report

submitted to

The Nature Conservancy of Idaho



by

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University of Idaho

Idaho Water Resources Research Institute

Kimberly Research and Extension Center

November 1994

HYDROLOGIC EVALUATION OF THE BIG WOOD RIVER - SILVER CREEK WATERSHEDS

PHASE 1
FINAL REPORT

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ACKNOWLEDGMENTS

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Finally, the contribution of Mr. Jim Eakin, Chairman of District 45 Canal, in the completion of this study by providing the data on the amount and duration of flow to the recharge pits and District operations is acknowledged.

ABSTRACT

The complex geologic and hydrologic watersheds of the Big Wood River and Silver Creek in Blaine county have successfully served the needs of the diversified interest groups since 1881. However, continued population expansion and changes in irrigation technology, climate, and in land use have altered the water resource needs and uses. As a result, Idaho's world famous Silver Creek is experiencing decreases in flow and the very existance of the habitat the creek supports is threatened. This study was conducted to collect essential data for the hydrologic evaluation of the Big Wood River-Silver Creek Watershed and to provide a data set for the development of a ground water model. The following data were collected in this phase of the study: 1) ground water levels; 2) surface stream flows; 3) irrigation pumping volumes; 4) irrigation diversions; 5) ground water recharge volumes; 6) precipitation; 7) land use, source, and type of irrigation; 8) historical flow records of the Big Wood River; and 9) historical flow records of Silver Creek. In general, ground water levels rise and fall in response to recharge and discharge from the aquifer. However, water level fluctuation patterns and magnitudes are different at different locations of the aquifer system. Also the irrigation wells exhibit larger fluctuations in water levels than the artesian wells. A 15 foot fluctuation in the water level of the Eakin well, about 3.5 miles south of Bellevue, was observed during the year 1993 compared to a 2.5 foot difference in pressure head in the Punkin Center artesian well near Highway 20. Ground water depth measurements on 18 wells with historical records show a general decrease in water levels of more than one foot during the period from 1975 to 1993. Ground water use in the study area is increasing. Water withdrawals from pumped irrigation wells have almost doubled since 1975. Of the total of 28,500 irrigated acres in the study area, about 47% are irrigated from canals and 53% are ground water irrigated including approximately 1500 acres of

sub-irrigated land. About 74% of the irrigated area is sprinkler irrigated, and 21% receives water by gravity irrigation. Five percent (5%) is currently sub-irrigated. The major crops grown in the study area are irrigated pasture, barley, and alfalfa. Irrigated area has not increased appreciably since 1975. The study areas for the 1975 report included area only as for north of Bellevue. This study includes lands up to and including Hailey. Therefore, irrigated acreage are not directly comparable. The percent of sprinkler irrigated area has increased from 13 percent in 1975 to 74 percent in 1993. Total amount of canal water diverted directly from the Big Wood River to the study area during the irrigation season of 1993 was 92,240 acre feet. Annual precipitation is highly variable with a recorded maximum of 20 inches at Picabo in 1983 and a minimum of 7.8 inches in 1982. The mean annual precipitation at Picabo for the period of record is 13.26 inches. Seasonal and annual flows in the Big Wood River and Silver Creek are highly variable. The average annual flow in the Big Wood River at Hailey has varied from less than 100 cfs in 1931 to more than 800 cfs in 1983. Average annual flow in the Silver Creek below Picabo after 1930 was reasonably constant at about 160 cfs. However, flow in the creek decreased markedly after 1987 and averaged below 120 cfs from 1988 to 1993. A tentative water budget for the aquifer system indicates that approximately 200,000 acre feet of water pass through the aquifer system each year. The USGS MODFLOW ground water model code was selected for use in the second phase of the study. The field data collected in the first phase of the study is adequate to draw initial conclusions about the aquifer system and to provide a core data set for the development of a ground water flow model. The second phase of the study will focus on the development of a three dimensional ground water flow model and evaluation of several "what if" scenerios.

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INTRODUCTION

Problem Statement

The Big Wood River and Silver Creek area, is a complex geologic and hydrologic basin. This watershed in Blaine County has provided water supplies for domestic use and irrigation since 1881 and helped to retain the habitat and quality of life in the Wood River valley for many years.

However, continued population expansion, changes in irrigation technology, climatic variations, environmental and other changes in land use have altered the water resource needs and supplies in this watershed, especially in the last twenty years. Several droughts, including the 1977 single year event and the most recent period from 1987-1992, during which runoff averaged about 60 percent of normal on the Big Wood River have further aggravated the delicate water situation. Consequently, Idaho's world famous Silver Creek, known primarily for its slow-moving, crystal clear water supporting an abundance of life such as blue ribbon and rainbow and brown trout, bald and golden eagles, sandhill cranes, hawks, and deer is experiencing decreases in flow. Recent low flow during hot summer days has caused elevated water temperatures and dissolved oxygen depletion resulting in a fish kill for the first time in history. The Nature Conservancy, managers of the Silver Creek Preserve, and the irrigators of the Big Wood River-Silver Creek watersheds have expressed their concern about the declining flows and water table levels. They have expressed a need for a hydrological study to define the aquifer system interaction and responses to increased demand.

Therefore, a hydrologic evaluation study consisting of three phases was proposed by the University of Idaho under the auspices of the Nature Conservancy

of Idaho and the Idaho Water Resources Research Institute. The purpose of phase 1 of the study was to collect hydrological, geological, meteorological and land use data and evaluate the aquifer system responses to various changes. The second phase of the study was to develop a three dimensional ground water flow model for the multi-layer aquifer system, using the data collected in the first phase of the study. The developed ground water model then will be used to evaluate many "what if" scenarios for the better management of water resources. Another objective of this study was to develop data management routines for the ground water model tailored for the agencies and personnel intended to use the model.

The first phase of the hydrologic study of the Big Wood River-Silver Creek watershed commenced in January 1993 under a cooperative agreement between The Nature Conservancy and the University of Idaho Water Resources Research Institute. Field work on phase 1 of the study began during April 1993 and was completed during the summer of 1994.

Study Objectives

Management of the system to accommodate additional demands along with decreased stream flows requires a precise knowledge of the hydrologic system interactions and responses if these streams and habitats are to retain the quality that has been the standard for so many years. Since the studies conducted by the University of Idaho and US. Geological Survey about twenty years ago, changes in the land and water use and natural recharge have significantly altered the water balance and aquifer-stream relationships. The objectives of this hydrologic study were to develop a basic understanding of the hydrologic interactions of water sources, stream-aquifer systems, and effects of natural system changes and man-induced land use changes. Collection of field data for the development of a ground water flow model constituted a major part of phase 1 study. Preliminary

selection of an operational 3-D ground-water flow model to assist in evaluating response of the system to actual or projected changes in recharge due to man-induced factors or short and long term climatic effects was also an objective. The specific objectives of phase 1 studies were the following:

1) To collect, review, and document the hydrological, geological, meteorological and land use data of previous studies conducted by various entities.

2) To establish surface water and ground water monitoring networks and collect field hydrogeological, meteorological, and land use data for subsequent development of a predictive 3-D ground water model of the basin.

3) To develop a tentative current conditions water budget for the aquifer system of the Big Wood River-Silver Creek area.

4) To make a provisional selection of a ground water flow model including necessary subroutines and structure the collected data in a compatible format for entering into the model.

Scope of Work of Phase 1

The scope of work included the review and collection of long term water resources data from previous studies, particularly those conducted by the University of Idaho and US. Geological Survey. Data on aquifer parameters such as tranmissivity and geologic cross-section were also collected. Ground water and surface water monitoring networks were established to collect essential data on ground water elevations and surface water discharges for the subsequent development of a ground-water flow model. The major components of phase 1 study included: 1) the collection of hydrologic and geologic data, 2) design and

layout of a ground water monitoring network, 3) design and layout of a surface water monitoring network, 4) mass measurements of ground-water levels, 5) stream flow data, 6) measurement of irrigation pumpage volumes, 7) ground water recharge through recharge pits, 8) land use data, 9) precipitation and snow melt data, 10) historical flow records for the Big Wood River at Hailey and Bellevue, 11) historical flow records for the Silver Creek at the old gauging station below Picabo and at Sportsman's Access, 13) development of a tentative current condition water budget for the aquifer system of the Big Wood River-Silver Creek area for the irrigation season of 1993, 14) development of a computer data base for the collected data, 15) selection of a ground water model code, and 16) preparation of a final report for phase 1 of the study.

STUDY AREA

Location

Figure 1 shows the study area, which includes the Big Wood River Valley from Hailey to Stanton Crossing and the Silver Creek drainage south to Priest Road approximately 2.5 miles south of Picabo. The Big Wood River flows along the western edge and exits the study area at the southwest corner. Silver Creek, fed by numerous springs, runs through the study area and exits past Picabo to the southeast. It is bounded by mountains and low hills. The cities of Bellevue and Hailey are located at the north part of the study area, and two small communities, Gannett and Picabo, are located in the southern part of the study area.

The economy of the study area is primarily agricultural. Several small subdivisions have developed near the Big Wood River south of Bellevue. Due to the proximity of the study area to the Sun Valley ski resort and recreational activities in the Silver Creek area, tourism contributes to the economy of the

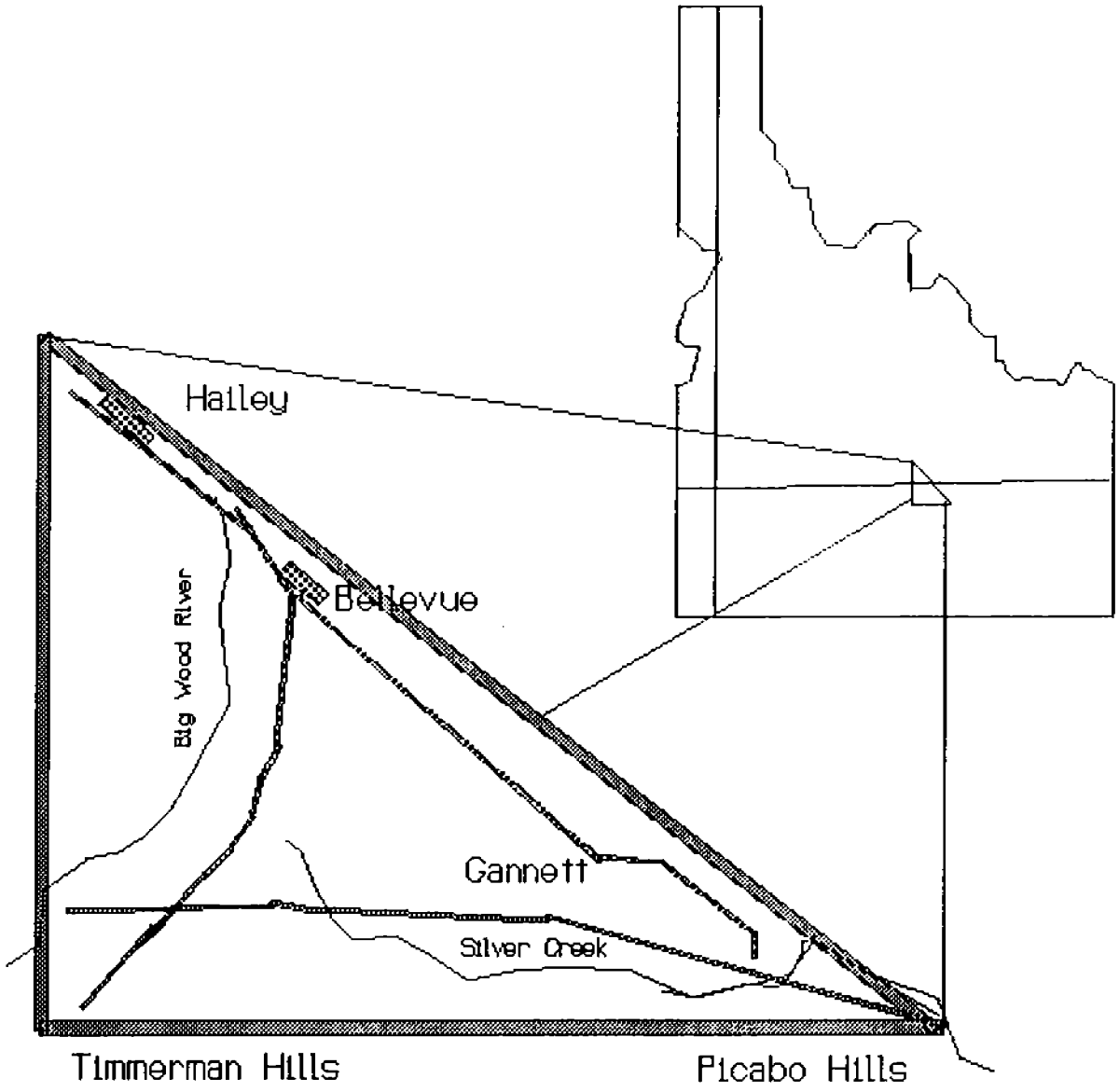


Figure 1. Location Of Study Area

valley. These and other recreational opportunities in the valley have resulted in rapid growth within the study area and significant changes in water resource use in the valley.

Climate

Climate in the study area is characteristic of a semi-arid mountain valley. Precipitation and humidity are relatively low. The evaporation rate is relatively high, and days of sunshine are numerous. Winters can be long and severe, and summers are short and cool. The mean annual temperature is 43.3°F, with the mean monthly maximum of 67°F occurring in July and the mean monthly minimum of 18.7°F occurring in January (Brockway and Grover, 1978).

Precipitation at Hailey, at the northern end of the study area, averages 15.38 inches annually and precipitation at Picabo, near the southern end, averages 13.26 inches. Only 23 percent of annual precipitation occurs during the 131 day frost free growing season.

Crops

The main agricultural activity in the study area is irrigated farming. Irrigation has been practiced in this area since 1880. Currently, about 35,000 acres are under cultivation. The main crops grown include pasture, small grains, and forage. Alfalfa is predominant in the northern part of the study area and wheat, barley, and oats predominate in the south. Irrigated and non-irrigated pasture is found throughout the study area.

The source of irrigation in the valley is water from the Big Wood River and the Silver Creek. Ground water development to supply water to lands that do not have surface supplies or supplement the canal supply is ever increasing. Land

owners have converted and are continuing to convert from flood irrigation to labor efficient sprinkler irrigation.

Cattle are raised on hay and natural pasture in the valley. About half the income of the area is derived from livestock (Smith, 1960).

GEOLOGY

History of Valley-Fill Deposition

The Big Wood River valley is a structural depression that has been filled with sediments. During Pliocene time the Big Wood River flowed through the southeastern gap near the present town of Picabo. Basalt flows of the Challis Volcanics in the Pleistocene epoch blocked the southeast channel forming a lake that resulted in graded deposition of sediments from coarse to fine grained down the valley. Eventually, the increasing lake elevation caused the river to breach at the southwest outlet near Stanton Crossing at the location of the present channel of Big Wood River (Brockway and Grover, 1978).

A second basalt flow dammed the southwest outlet forming a new lake and forcing the Big Wood River to again flow through the southeast outlet. This sequence apparently occurred several times with lakes forming periodically. Periods of alpine glaciation in the headwaters of Big Wood River were concurrent with the formation of lakes and caused deposition of coarse grained, poorly sorted materials over the valley. This sequence of events caused the deposition of alternate layers of coarse and fined grained sediments that comprise the aquifer system (Brockway and Grover, 1978).

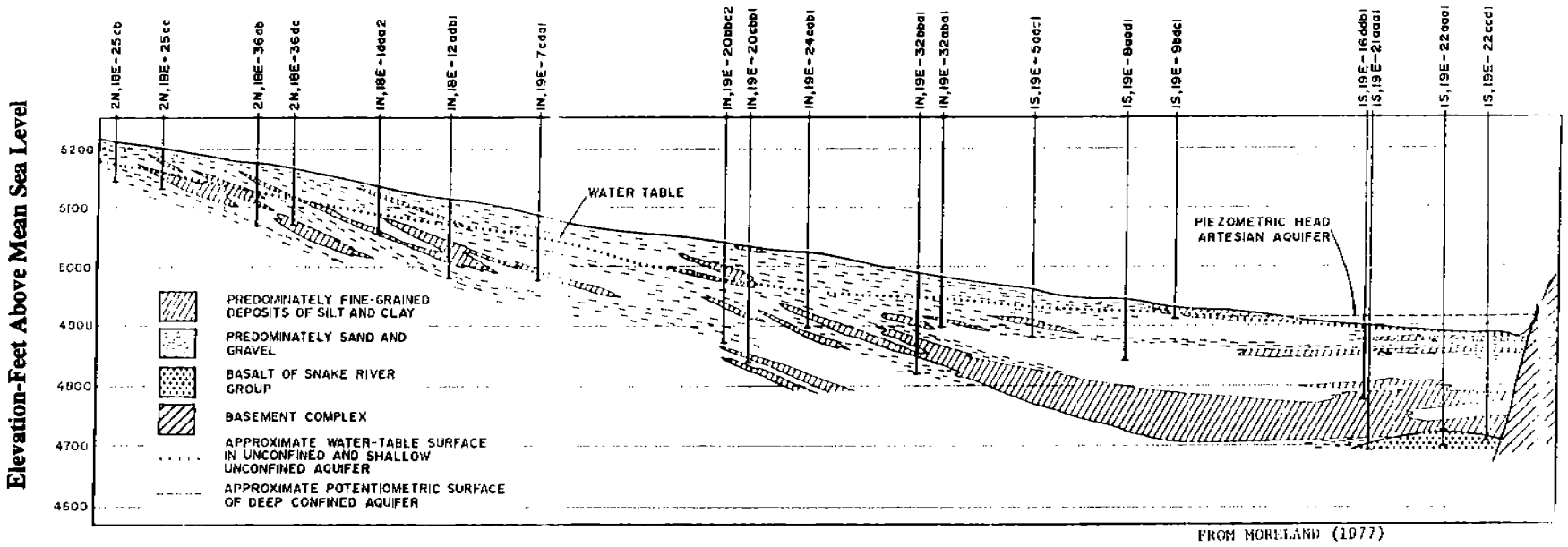
The slope of the valley floor increases from south to north with a low topographic divide between the Big Wood River and Silver Creek drainage. High

ground water levels eventually formed surface springs in the southern part of the area. These spring-fed streams combined to form Silver Creek which now flows southeastward and out of the area.

Lithology

The valley is filled to depths of as much as 500 ft with a sequence of interbeded clay, silt, sand, and gravel of Pleistocene and Holocene age. This valley fill is the primary source of ground water in the area. To understand ground water flow patterns in the valley, an understanding of formation characteristics is essential. To define the lithology of the valley fill, Moreland (1977) collected and analyzed driller's logs of wells within the study area. Additional test holes were machine augured at 10 sites in the southern part of the study area to supplement the available information. On the basis of this data, Moreland concluded that the northern part of the valley is underlain by predominately coarse sand and gravel. However, a few thin and discontinuous deposits of fine-grained materials are present. Due to the limited aerial extent of fine-grained material, confinement of ground water is limited. In the central part of the basin, more fine-grained sediments containing sand and gravel are evident. The fine-grained sediments are extensive enough to provide confinement especially south of Baseline Road. Continuous layers were found below depths of about 150 ft. The amount of fine-grained material increases to the south, and confinement of water below these layers is indicated in all of the southern part of the valley from Hayspur Fish Hatchery to Stanton Crossing. South of Highway 20, sand and gravel forms less than 25 percent of the total thickness of the fill material. Basalts of the Challis volcanics interfinger with sediments along the southern boundary of the area. A detailed cross-section of the valley fills is shown in Figure 2 (Moreland, 1977).

Figure 2. Geologic Cross Section of Big Wood River-Silver Creek Area (north to south)



GROUND WATER

Aquifer Characteristics

Good quality ground water is available in the fluvioglacial sediments and basalt from both the confined and unconfined aquifers. Unconfined or water table conditions exist in most of the study area and confined or artesian conditions exist in the southern part of the study area. Ground water is the major source of water to meet domestic and stock water needs and serves both primary and supplemental irrigation needs. Numerous springs fed by the ground water sustain Silver Creek and its habitat.

Land owners started using the ground water for irrigation in the early 1940's (Castelin and Chapman, 1972). Development of modern wells started in 1947. Moreland (1977) reported that in 1975 there were 60 irrigation pumping wells and 50 flowing artesian wells in the study area. However, in Moreland's determination of ground water use, he reported only 48 pumped irrigation wells and 30 flowing artesian wells. These wells are generally used to supplement the canal irrigation supplies; however, many of these wells serve as the only source of irrigation water. The rapid development of irrigation wells and declining water levels in the study area and throughout the valley has resulted in a moratorium on drilling of new wells.

Aquifer Transmissivity

Information on transmissivity of an aquifer constitutes an integral part of a hydrologic model. Therefore, attempts are always made to provide a reasonably good estimate of transmissivity for the initial runs of the ground water model. Moreland (1977) used the published data of Smith (1959) and Thomason (1960)

and estimated the transmissivities of the water table and artesian aquifers of the study area. Tranmissivity of the water table aquifer in the northern part of the study area near Bellevue ranged from 30,000 to 70,000 ft^2/day. The highest aquifer transmissivity of 300,000 ft^2/day was found in the area northwest of Gannett indicating the presence of coarse sand and gravel. South of Baseline Road, in the artesian area with confining beds of low hydraulic conductivity, transmissivity is generally less than 30,000 ft^2/day. West of the intersection of Baseline Road and Highway 75 in the artesian area, the transmissivity is 70,000 ft^2/day. Transmissivities in the southeastern part are highly variable from location to location, ranging from 7,000 to 30,000 ft^2/day. The estimate of transmissivity in the northwest area was up to 30,000 ft^2/day (Moreland, 1977).

Ground Water Movement

Ground water in the study area moves from areas of higher altitude to areas of lower altitude, with the rate of movement depending upon the slope and transmissivity of the aquifer. By contouring the potentiometric surface, the direction of flow, which is at right angles to contour lines, can be determined. Adequate data on water levels and pressure heads in the study area are available. Four sets of these data were collected as part of this study and will be utlized for flow pattern analysis and model calibration phase of the study. However, the complex aquifer system of the valley presents many problems in defining the ground water flow patterns.

In the northern part of the valley, ground water moves in a southerly direction. In shallow systems, ground water movement follows the surface drainage, moving southwest towards Stanton Crossing or southeast towards Picabo (Moreland, 1977). The deeper ground water that moves toward Silver Creek flows eastward through the confined aquifer toward the basalt aquifer underlying the

southeastern part of the valley. The ground water in the basalt aquifer flows southward and eastward towards Picabo and out of the study area.

Ground Water Fluctuations

Ground water levels in the study area rise and fall in response to recharge and discharge from the aquifer. Hydrographs of selected wells in the study area illustrate the pattern and magnitude of water level fluctuation. Magnitudes of water level fluctuations vary in different parts of study area aquifer. In general, water levels rise in late spring in response to recharge from snow melt and flood flows in the Big Wood River and continue to rise through early summer as the irrigation water recharges the aquifer. From about July on, water levels decline as ground water flows to the south into the aquifer and irrigation recharge declines. Maximum fluctuations in ground water levels take place in the Poverty Flats and Picabo areas (36 and 18 feet, respectively). Minimum fluctuation of 5 to 10 feet in water levels generally occur throughout the southern part of the area.

Recharge

The major sources of recharge to ground water are irrigation, snow melt, and precipitation. A significant contribution to recharge is made by the percolation of excess irrigation water applied to crops, leakage from canals and ditches, and seepage in the northern part of Big Wood River channel and tributary streams. Under-flow through the alluvial fill in the Big Wood canyon upstream from Bellevue is another major source of ground water to the valley (Moreland, 1977 and Brockway and Grover, 1978). Land owners also divert surplus canal water to the designated pits to recharge the aquifer. Most of this recharge water is diverted during the later part of summer when most of the crops have been harvested.

PROCEDURE

Ground Water Level Measurements

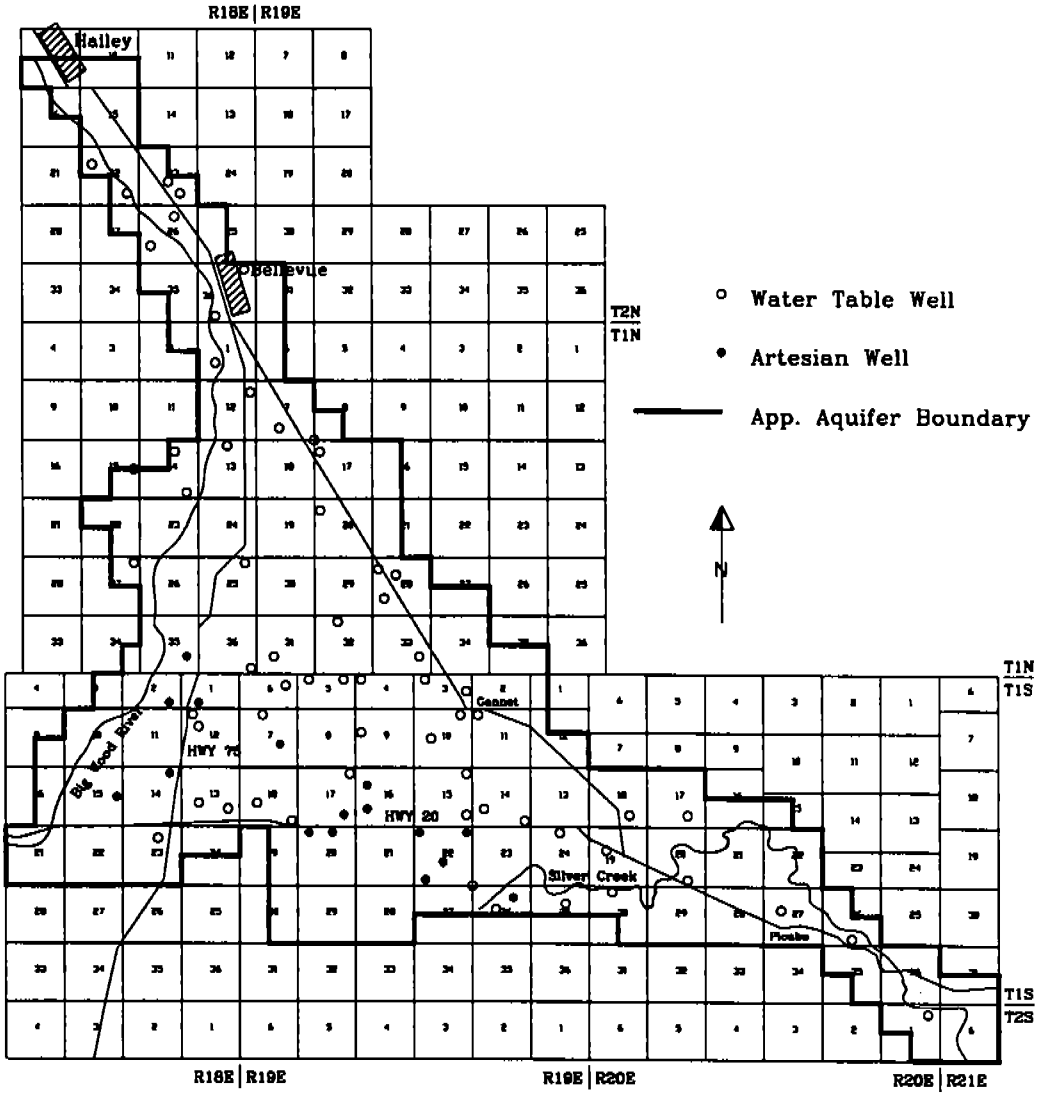
A ground water monitoring network consisting of eighty wells was established in the study area for depth to ground water measurements. Well selection was based on the availability of previous data, geographic and hydrographic distribution, and cooperation of owners. The spatial distribution of wells was relatively uniform, except the southwest corner of the study area (west of Highway 75) where only a few wells were available.

The total sample of 80 wells contained 56 non-artesian and 17 artesian wells. Sixty-seven were irrigation wells, seven domestic wells, and six non-used observation wells. Table 1 is a list of wells in the network. Figure 3 shows the location of wells in the ground water level monitoring network.

Site schedules containing pertinent well and aquifer information, ownership, and location of each selected well were collected from the U. S. Geological Survey office at Boise if the well was previously measured by the USGS. Well owners were contacted to seek their permission to measure ground water levels.

Water levels in the pumping wells were measured using either steel tape or M-Scopes. The artesian wells were usually measured with a mercury manometer; however, in some cases, a small diameter plastic tube was used since it was difficult to measure small pressure heads with a mercury manometer. Depth to ground water measurements were conducted when the wells were not pumping.

Figure 3. Well Monitoring Network
Big Wood River–Silver Creek Area



The first set of water level measurements was completed during April and May 1993, with the second and third sets in August and December 1993. The final set of ground water depth data was collected in April 1994.

Canal Diversions

Water level recorders and gauges were installed on the west, central and east branches of the District 45 canal. In addition to the continuous water level recorders, metallic gauges were installed in these canals and weekly gauge readings were recorded during the irrigation season of 1993. Other canals diverting water from the Big Wood River and Silver Creek were measured by the Water Master of District 37 and 37M located at Shoshone. Daily diversion data was secured from the Water Master's files. Table 2 lists the canal diversion sites in the study area.

Stream Gauging

Automatic water level recorders or staff gauges were installed on fifteen streams within the study area. Weekly gauge readings of these streams began on May 13, 1993 and continued for the duration of the study. Table 3 lists the streams and canals measured for the project.

The discharge of these streams was measured frequently to develop rating curves and hydrographs for making estimates of the volumes of spring and stream flow. The USGS gauge near Sportsman's Access continued to be the primary gauging station on Silver Creek. The two additional gauges were installed for this study on Silver Creek at Swanson's Bridge and Silver Creek at Priest Road. Both stations were also equipped with continuous water level recorders. The floats of the automatic water level recorders in the stilling wells began having ice problems

in January 1994; however, weekly staff gauge readings continued during this period.

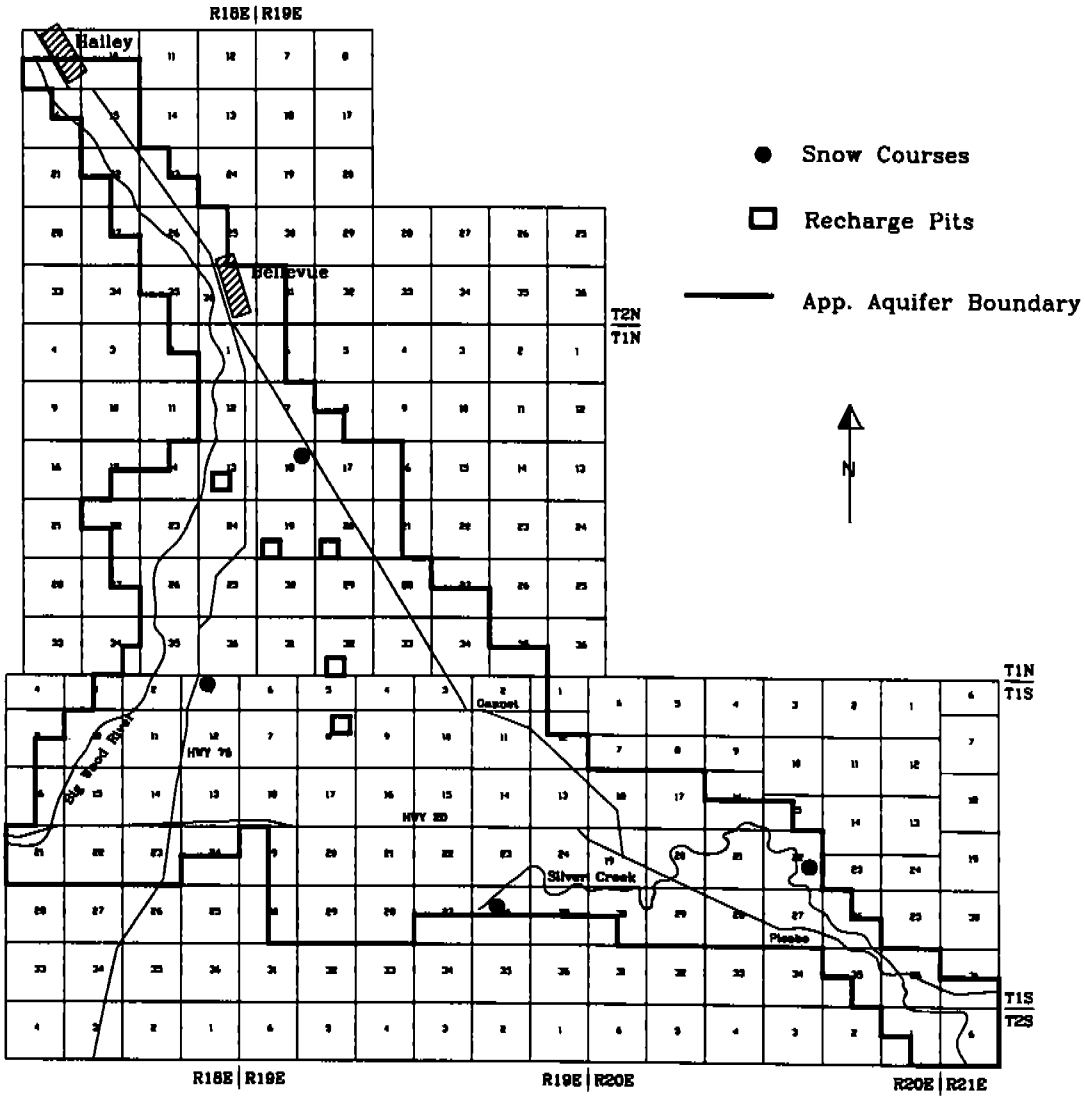
Ground Water Pumpage Data

The discharge of all the water table and artesian wells in the study area was measured or estimated to determine the amount of total ground water pumpage from the aquifer. Most of the discharge measurements were conducted during the months of July and August 1993. Discharge measurements and estimates were made using either an open channel measuring device such as cut throat flume or the coordinate method where flumes could not be installed. In the case of wells discharging directly to the sprinklers, discharge was estimated by measuring the size of sprinkler heads, pressure, and counting the number of sprinklers. The information on the duration of use of each well use was collected from the well owners.

Ground Water Recharge Pit Data

Recharge from application of irrigation water to fields is the primary source of external recharge to the aquifer. However, waste or surplus canal flows are used for recharge through ponds or pits. Data on the amount of canal water diverted to the recharge pits was collected to estimate the recharge volumes to aquifer. The monitored recharge pits are located in Sections 32, 20, 19, 13 and 8. Figure 4 shows the location of recharge pits in the study area. All of these recharge pits are earthen ponds or gravel pits with varying sizes and configuration. It was observed that these ponds were dug at locations where the soil was coarse and gravely with higher permeabilities. The land owners divert water from the District 45 canal to these recharge pits when the water is in excess of their irrigation needs. Data on the duration and amounts of diversions to the recharge

Figure 4. Location of Snow Courses and Recharge Pits



pits were obtained from the land owners and the Chairman of the District 45 Canal.

Meteorological Data

The National Weather Station Observer at Picabo has maintained temperature and precipitation data on a daily basis since 1960. No facility to measure the snow depth or water content in the study was available. A meteorological network consisting of three sites, Tick-Tok ranch, Gardener Ranch, and Molyneux Ranch was established for snow course surveys. A snow-pillow and an Agri-met station were installed near the house of the Silver Creek Preserve Manager. The snow courses and pillows were designed and installed with the help of the Soil Conservation Service at Hailey. Locations of snow courses and the snow pillows are shown on Figure 3. The climatological data from the Agri-met station was collected through the Agri-met network. The data on snow water content were measured bi-monthly by the Nature Conservancy Staff using USDA recommended procedures. Data collected at the meteorological station included maximum and minimum temperature, daily and accumulated precipitation, solar radiation, and snow pillow information.

Land Use Data

Land and water use data are necessary components of the overall water budget of the study area needed to develop a ground water model. Land use data, including the area under cultivation, types of crops grown, source of irrigation water, and methods of irrigation were collected for the entire study area. The land use data was obtained from the land owners of the study area and verified and corrected by field visits. All of the land use data was charted on a base map

prepared by the U. S. Soil Conservation Service from September 15, 1988 aerial photographs.

Ground Water Flow Model Selection

Various ground water flow models were reviewed to select a three dimensional, peer reviewed, user friendly computer code capable of simulating the ground water flow problems in confined and unconfined aquifers under steady-state or transient conditions. While reviewing the models, consideration was given to select a model which would be capable of handling solute transport problems in the future.

RESULTS

A primary product of this phase of study is a comprehensive data base of ground-water and surface water discharge information, ground-water elevation data, land use data including irrigated areas and type and source of irrigation, and meteorological data needed as input for the ground water model.

The other product of this phase of study is the selection of a ground-water model that is a well documented, peer reviewed model code, capable of running on a DOS-based personal computer usable by local planning and research agencies. Graphical input and output routines will be incorporated in the model in the second phase of the study. The ground-water model would simulate historical measured aquifer responses to input variables and predict estimated response to potential climatic changes and changes in water and land use.

Data collected in the first phase show the seasonal and historical responses of stream flow, water levels, and spring discharge to water use changes and

climatic variations. Historical and current data allow the determination of an estimated water budget for the aquifer system.

Ground Water Level Data

Four sets of depth to ground water measurements were conducted for 80 wells in April-May 1993, August 1993, December 1993, and April 1994, respectively. Water level and potentiometric head data are summarized in Table 4. In addition to these field measurements, historical data on two wells, Punkin Center Artesian Well (1S 19E 22AAA1) and a USGS observation well (1N 18E 01DAA1) about one mile south of Bellevue in the water table aquifer, were obtained from the USGS. The averages of monthly depth to water measurements for these two wells for the period 1954 through 1993 are summarized in Tables 5 and 6. Figures 5 and 6 are the hydrographs of these wells showing historical and current (1993) seasonal responses of the water table or peizometric head. The daily depth to water level measurements data for these two wells are summarized in Appendix A.

In general, ground water levels rise and fall in response to recharge and discharge from the aquifer. However, water level fluctuation patterns and magnitudes are different at different locations of the aquifer. Maximum water level elevations generally occur in late June or July depending upon the irrigation diversions. Water table wells in the southern part of the area show a maximum change approximately two weeks later than the northern wells and sustain a level until late October. Recession of the water table occurs through the winter until March or April when recharge from spring irrigation begins.

Figure 5. Historical Ground Water Level Data of Punkin Center Artesian Well (1S 19E22 AAA1)

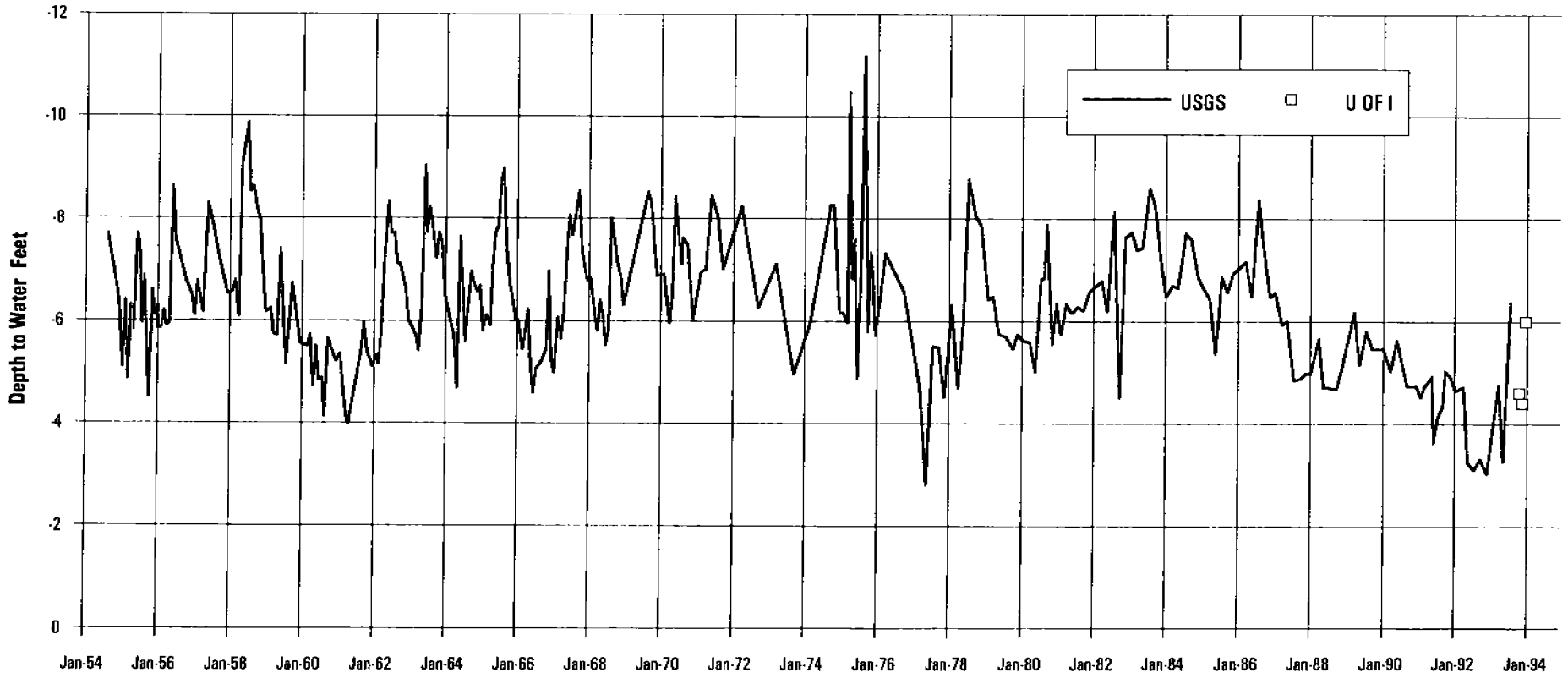
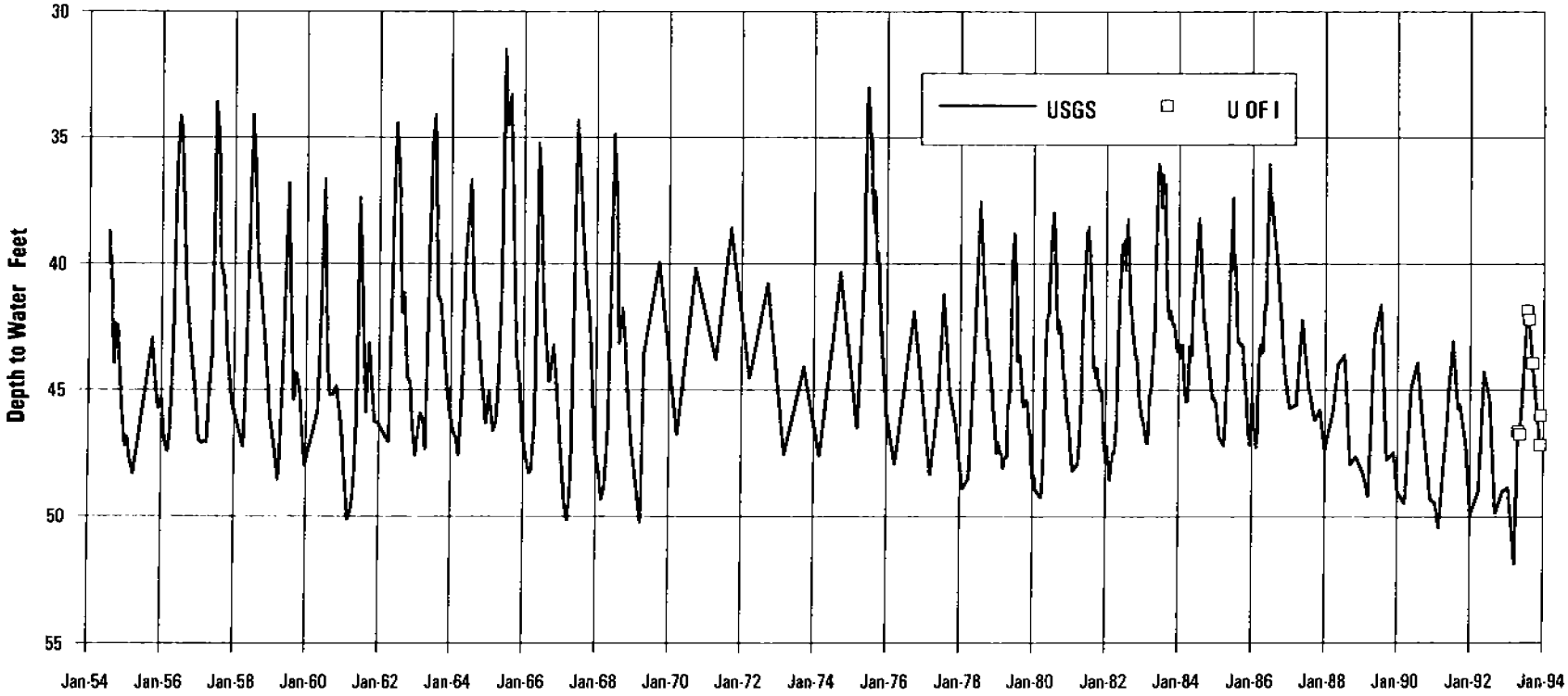


Figure 6. Hydrograph of Historical Data of USGS Well (1N 18E 01DAA1)



Near Bellevue, water levels fluctuated nearly seven feet between April 1993 to April 1994 as shown by wells 2N-18E-36cad1 (Roger well) and 2N-18E-36 adc1 (City of Bellevue well). Moreland measured a change in water level of about 10 feet for well 2N-18E-36cad1 in 1977 which was a drought year. Water level data collected by Moreland (1977) on well 2N-18E-36cad1 show that water levels rise in late spring in response to recharge from snow melt and flood flows in the Big Wood River and continue to rise through early summer as irrigation-return water recharges the aquifer. From about July on, water levels decline as ground water flows to the south into the aquifer underlying the valley and irrigation recharge declines.

Ground water levels in the Poverty Flats area are represented by well 1N-18E-26bbd (Brown well). An annual fluctuation of 24 feet in the ground water level of this well occurred between April 1993 and April 1994, with the maximum rise in April-May and the decline beginning in August. Moreland (1977) found a similar trend in water level fluctuation in well 1N-18E-15daa1 (John Brown well), located in the same area with an annual fluctuation in excess of 40 feet in 1977, which was a drought year. The dramatic rise of the water level in May and June is probably due to spring runoff in the Big Wood River and the beginning of diversions to the Glendale and Bypass Canals. Most of the water in the Big Wood River is diverted to irrigation canals during the irrigation season and the reach of the river becomes dry in August eliminating the recharge to the aquifer, resulting in faster decline in water levels.

Ground water level response east of the Big Wood River in the northern part of the valley is shown by well 1N-19E-20bbc1 (Struthers' well). The well showed a change in ground water level of more than 14 feet in 1993 compared to

30 feet in 1977. This well shows that water levels begin rising in May-June and reach maximums in August with declines in December.

Water level fluctuations in the area toward the southern end of the unconfined aquifer (Gannett) are shown by well 1S-19E-10aab1 (Byington well). A maximum fluctuation of about six feet was observed in 1993. In this area, the water level fluctuation becomes smaller due to proximity of the area to spring discharge areas. The springs effectively reduce variations in water levels by increasing or decreasing discharge of springs due to increase and decrease in water levels. This situation occurs throughout the southern part of the unconfined aquifer near the springs.

It is difficult to generalize the behavior of water level fluctuations in the confined aquifer. Pressure fluctuations near the edge of the confining beds are similar to those in the northern unconfined area. Moreland (1977) explained that fluctuations farther into the artesian system area delayed as the pressure waves move through the system. Therefore, well 1S-19E-16bbc1 (Bickett well) peaks in late July and August (Table 4), whereas wells in the unconfined area and artesian wells near the edge of the confining beds peak in early and mid-July. Even farther into the artesian system, well 1S-19E-22caa1 (Gray well) peaks in August.

In the southeastern part of the study area where the confined aquifer merges with unconfined aquifer, water level fluctuations are smaller, probably due to the hydraulic connection with Silver Creek. Fluctuation in potentiometric levels at well 1S-20E-20abb (Luke well) between April 1993 and April 1994 was about 4 feet.

Fluctuations in ground water levels in the unconfined aquifer near Picabo are relatively greater due to the steep aquifer gradient. Average fluctuation in

water levels in the period between April 1993 to April 1994, in five wells, 2S-20E-1acc2, 1S-20E-26cdc1, 1S-20E-27bda1 and 1S-20E-36bdc1 was about eight feet.

In general, water table wells exhibit more fluctuation in water level than the artesian wells. A fluctuation of about 15 ft. in the water level of the Eakin well south of Bellevue was observed during the year 1993; whereas a potentiometric head fluctuation of about 2.5 ft was observed in the Punkin Center artesian well.

Canal Diversions

The irrigation districts and cooperative ditch groups are responsible for delivering Big Wood River and Silver Creek water to the farms. The largest organized district is the District 45 that supplies water to land owners in the northern and central part of the study area. Irrigation water diversion usually begins in April and continues through October each year. The canal diversions for the season are collected and summarized on a monthly basis, indicating the total amount of water discharged through each diversion. These diversions, including individual and multiple-user canals and laterals, include 90 different sites. Total diversion from the Big Wood River to the study area during the irrigation season of 1993 was 92,240 acre feet. Canal diversions from the Big Wood River (Water District 37) and Silver Creek (Water District 37M) for the 1993 irrigation season are summarized in Appendix B.

Some farms in the study area do not receive water from any external source and rely primarily on subirrigation, artesian wells, or springs.

Ditches in the surface irrigated areas are constructed on gravely and coarse soils with high permeabilities resulting in high seepage loss. Brockway and Grover, 1978, measured the seepage losses in some of the ditches using inflow-outflow methods. Discharge was measured with current meters or other installed

measuring devices. Reach lengths of at least one mile were selected to assure that net losses would be measurable with greater accuracy. The measured seepage loss varied from 0.3 to 7.1 cubic feet per day per square foot. Table 7 is a summary of measured seepage losses.

Stream Flows

Rating Curves and hydrographs showing annual variations in discharges for all the streams in the study area are developed and provided in Appendix C. The average monthly flow data from bi-monthly measurements for 15 streams are summarized in Table 8. Historical data on the Silver Creek flow at Sportsman's Access collected by USGS was obtained for this study. Prior to 1962, the USGS gauging station on Silver Creek was at a site about 1 mile below Picabo. From 1963-1974 there were no continuous discharge measurements on Silver Creek. From 1975 to 1994 the USGS gauging station was at Sportsman's Access, approximately three miles upstream of Picabo. Figures 7 and 8 show the long term average daily flow for the USGS gauge on Silver Creek at Sportsman's Access along with the 1992 and 1993 daily discharges. Similarly, historical flow data of the Big Wood River at Hailey and near Bellevue (Stanton crossing) were obtained from the USGS. Figures 9, 10, and 11 show the hydrographs of historical mean daily discharge of the Big Wood River at Hailey and Bellevue. Figures 12, 13, and 14 are the hydrographs showing the long term trends in average annual flows from Silver creek and Big Wood River at Stanton crossing.

The hydrographs of the project area streams tributary to Silver Creek show distinct flow patterns. The flow generally begins rising in June immediately after irrigation begins and peaks in August-September. The flow in these streams starts declining at the end of September, reaches the minimum in January-February, and remains low until the start of next irrigation season (May). However, the flow

Figure 7. Mean Daily Discharge of Silver Creek at Sportsman's Access

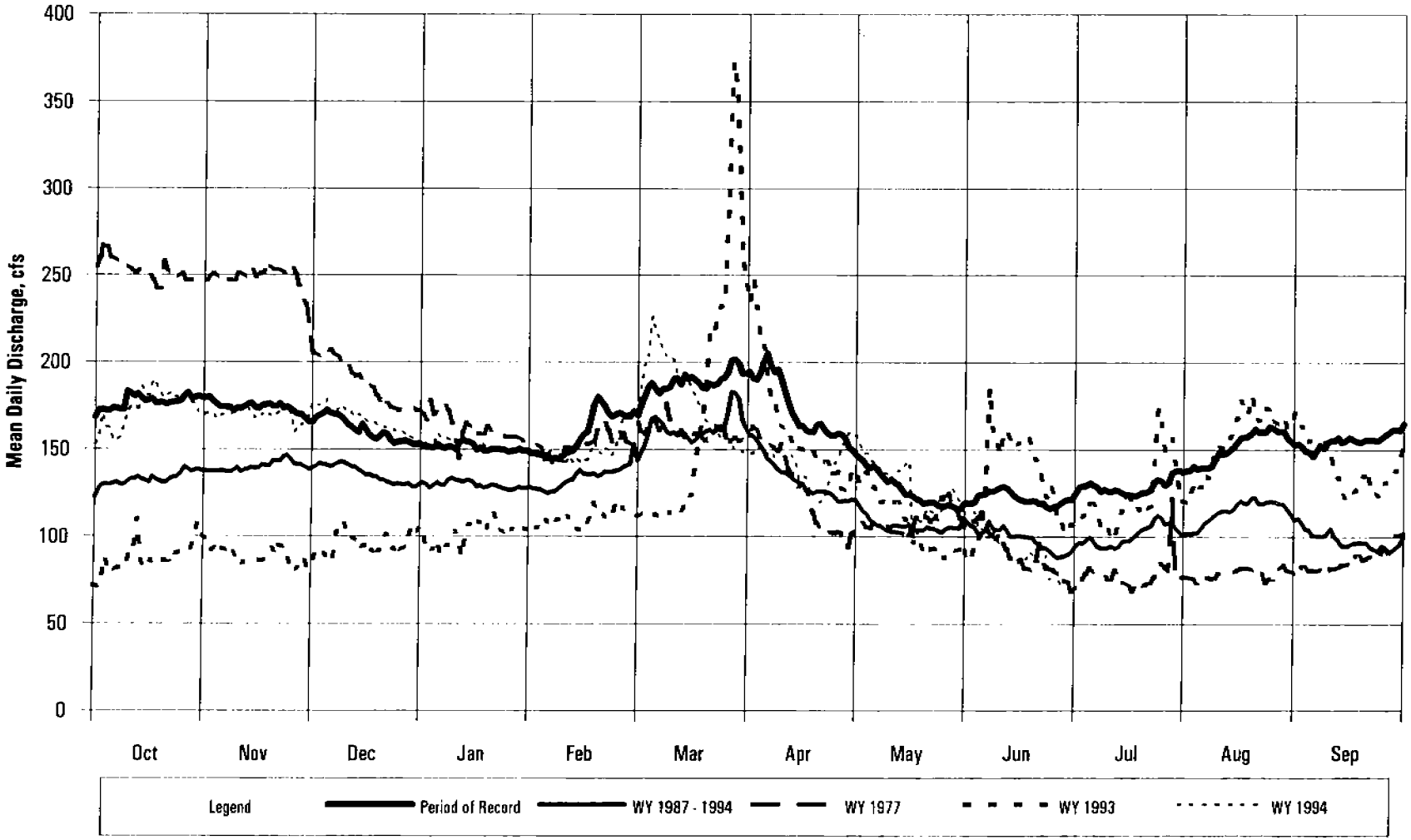


Figure 8. Mean Daily Discharge of Silver Creek at Sportsman's Access-Period of Record

Figur 9. Mean Daily Discharge of Big Wood River at Hailey

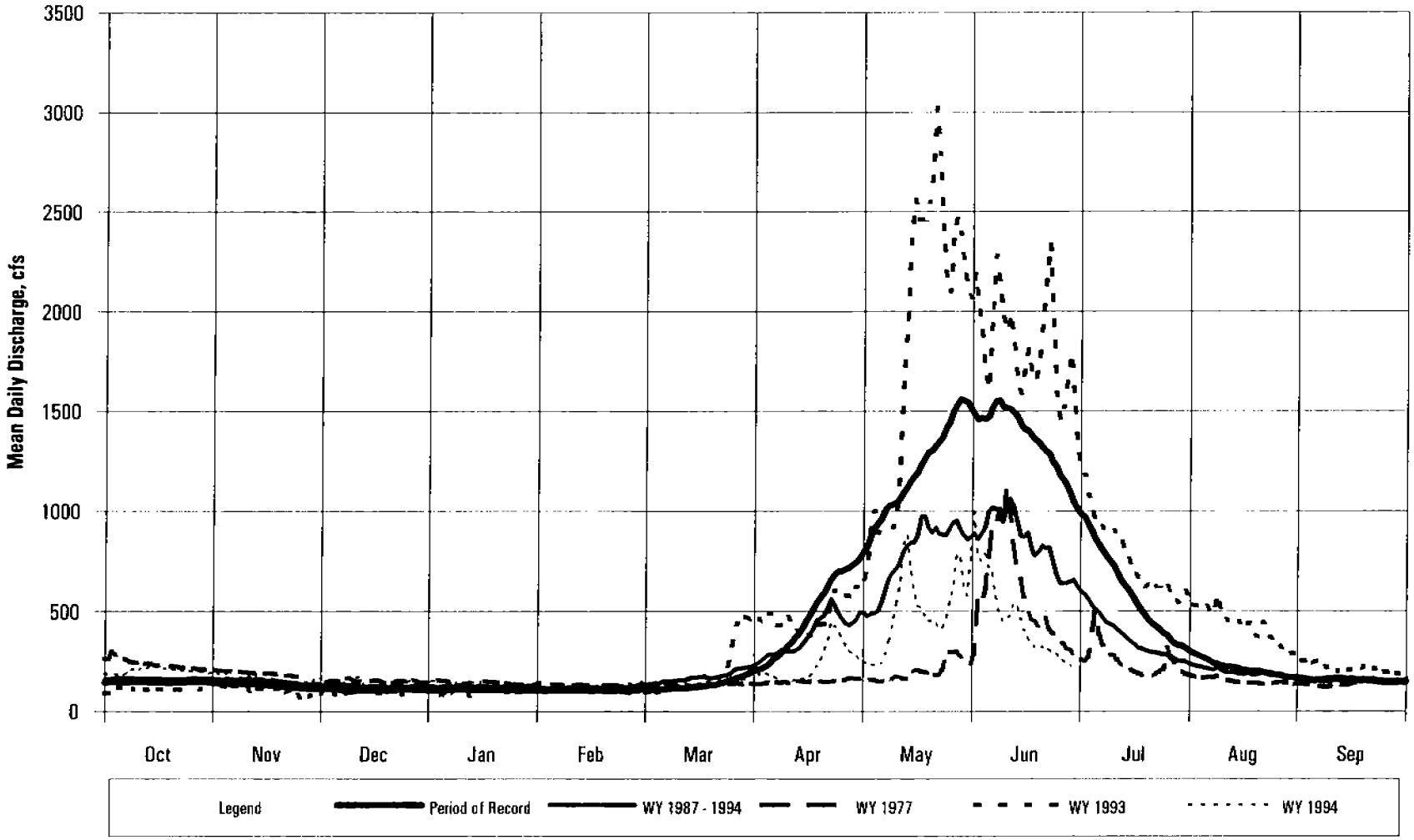


Figure 10. Mean Daily Discharge of Big Wood River near Bellevue

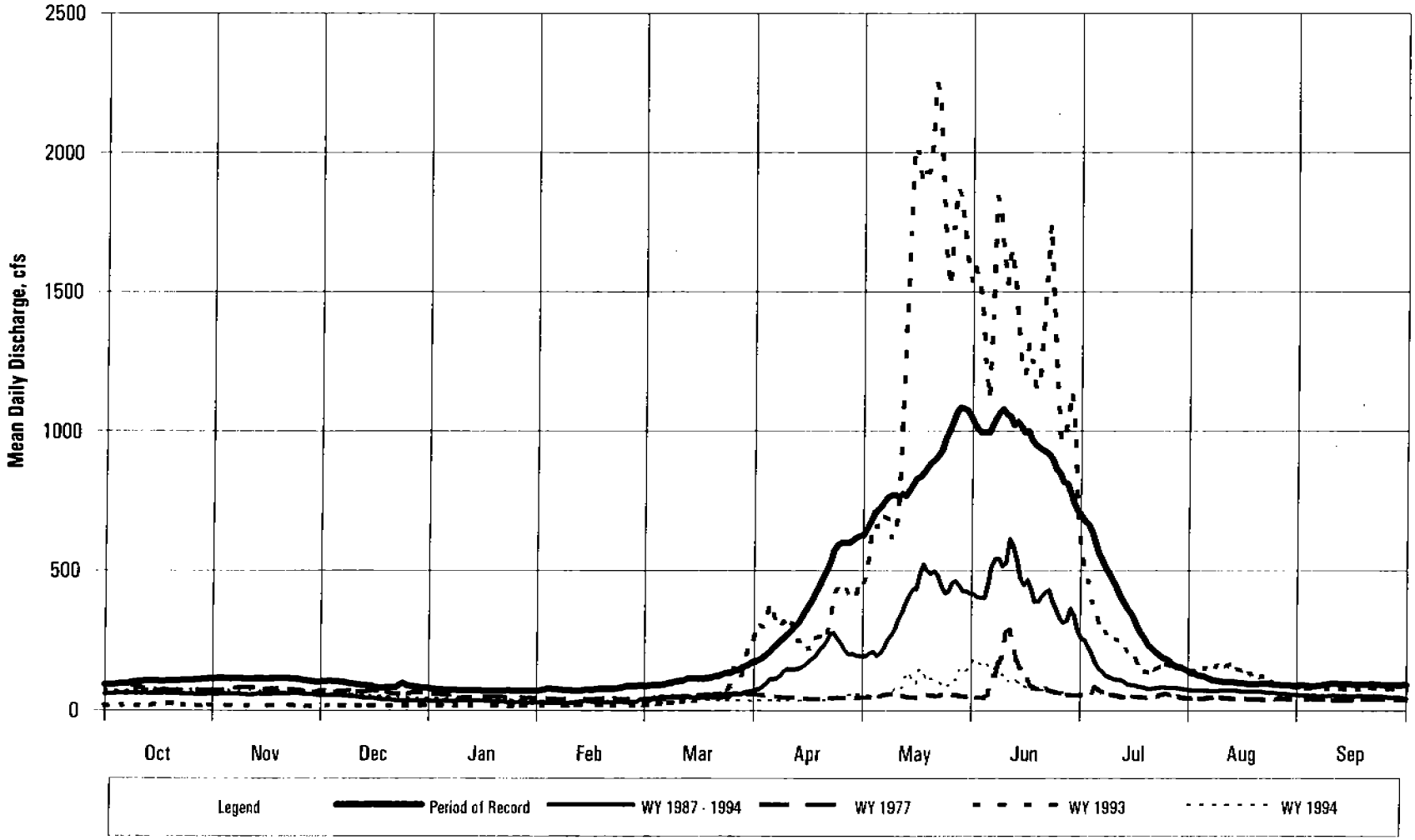


Figure 11. Mean Daily Discharge of Big Wood River -Period of Record

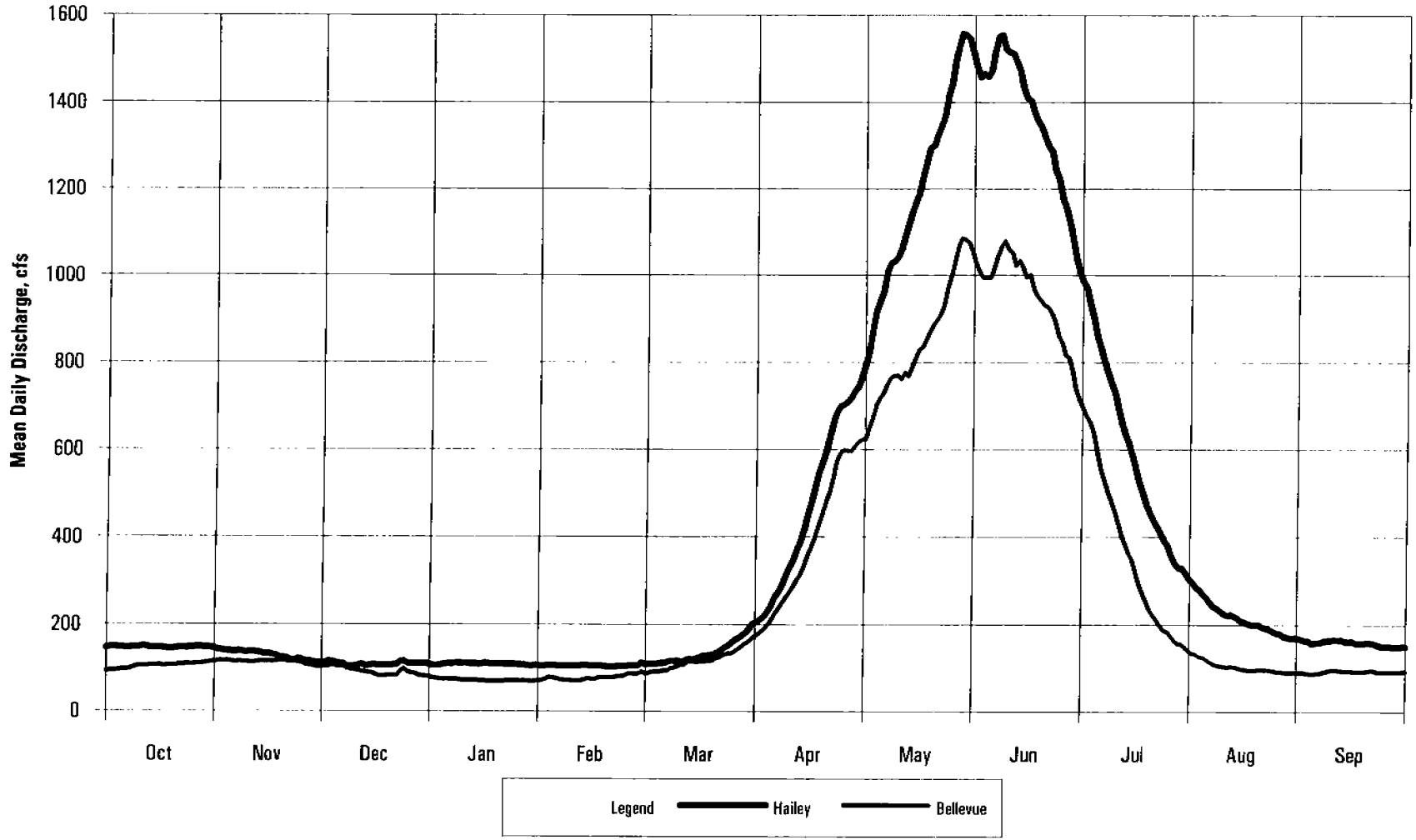


Figure 12. Average Annual Flow of Silver Creek at Old and New Gauging Stations

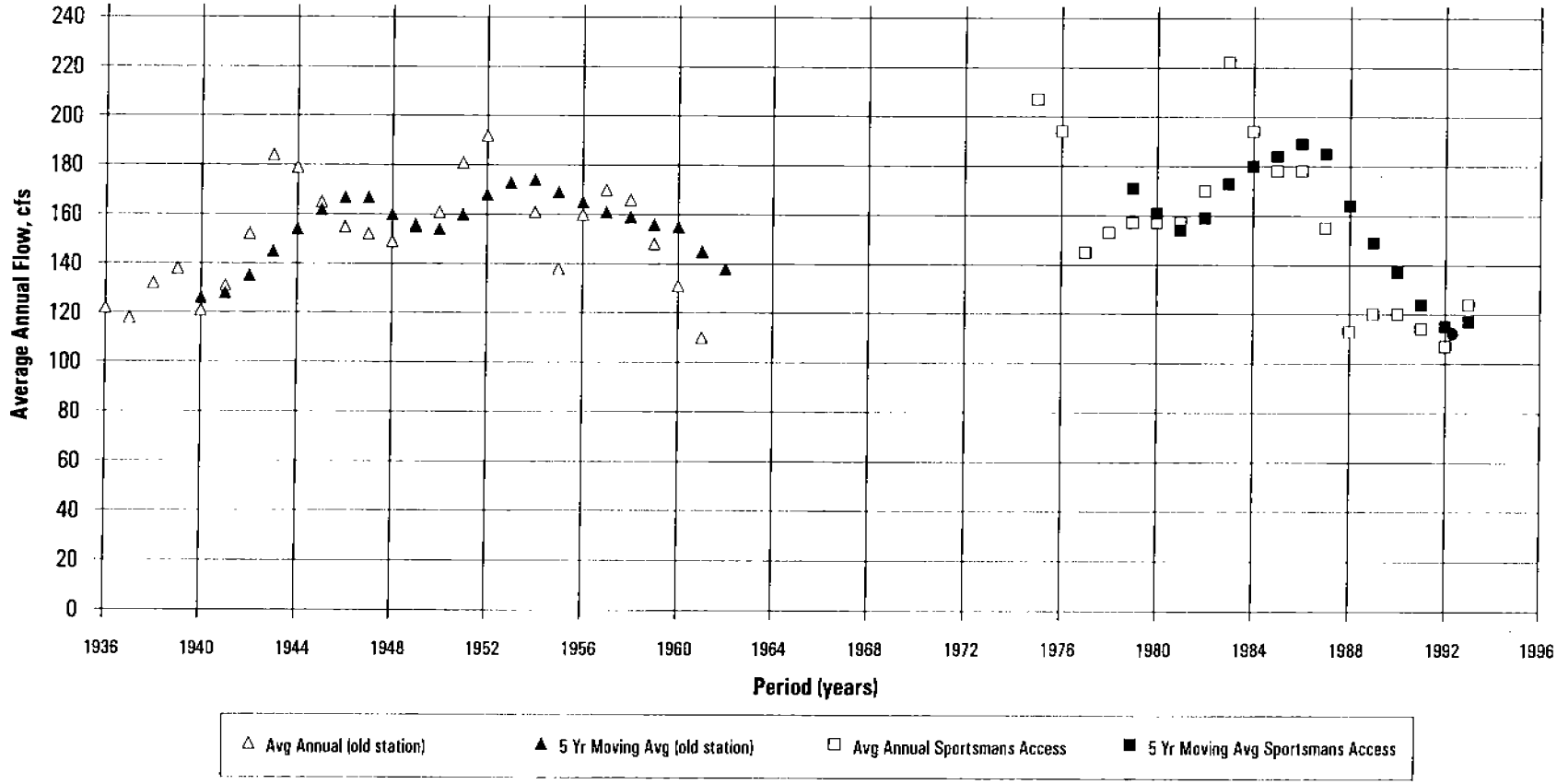


Figure 13. Average Annual Flow of Big Wood River at Hailey

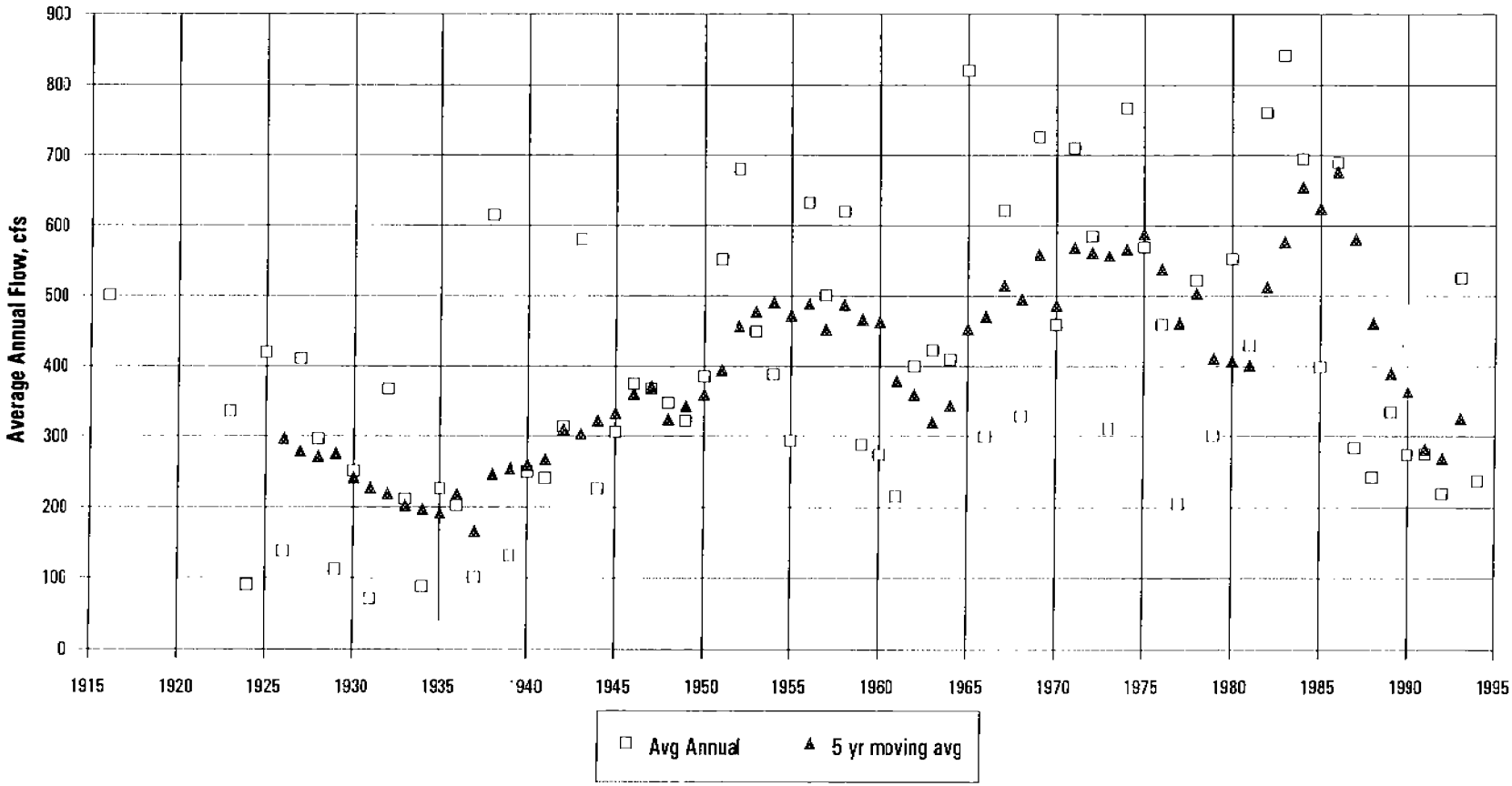
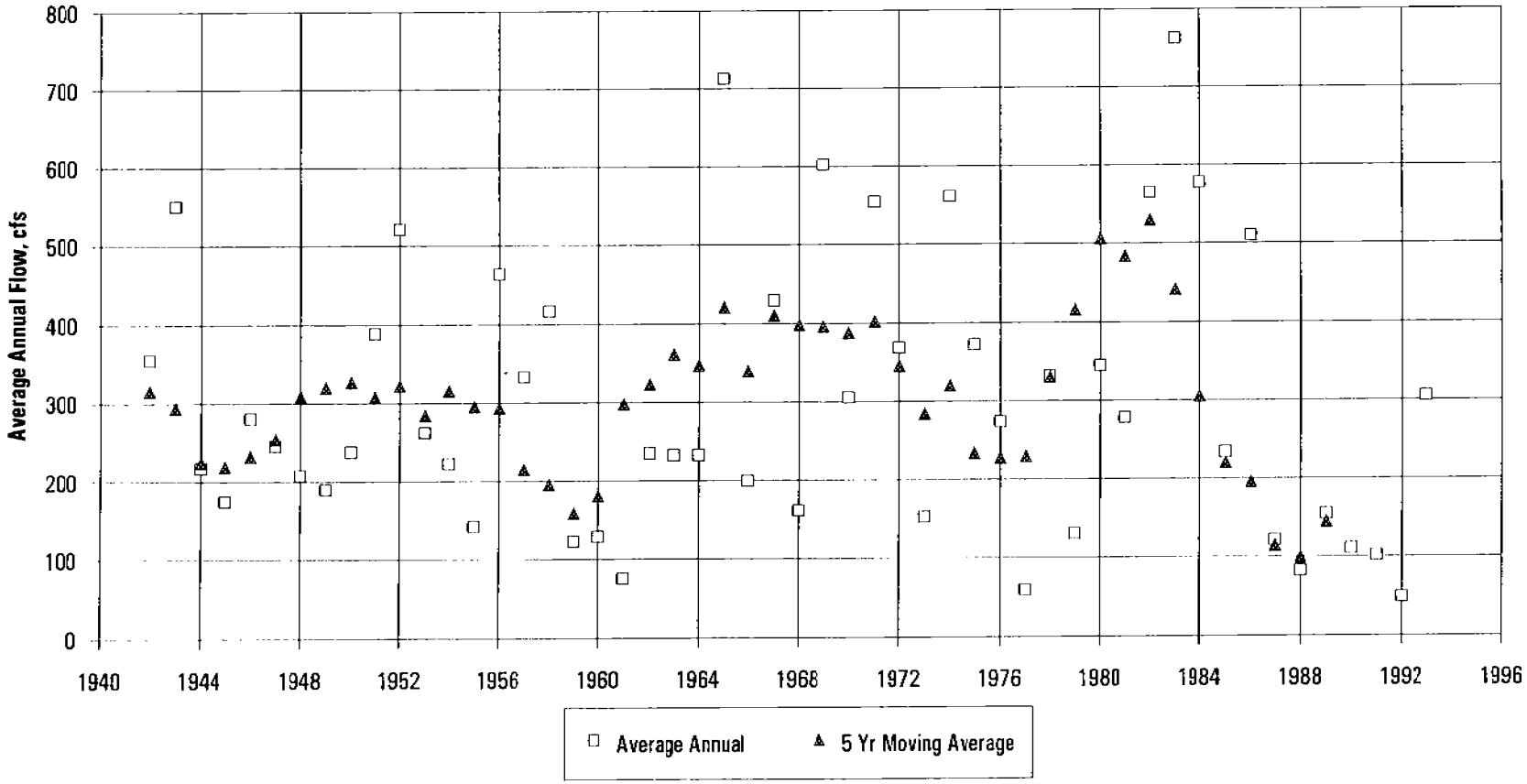


Figure 14. Average Annual Flow of Big Wood River near Bellevue



pattern of Brock Creek west of Big Wood River is different from those streams east of the river. Brock Creek peaks in April-May, starts receding in June, and reaches minimum flows in December.

The historical flow data of the Big Wood River at Hailey show that the river peaks in May-June and flow declines from October through March. The recorded average minimum and maximum annual flows in the Big Wood River at Hailey for the period of record 1923 to 1993 is 70 and 842 cfs respectively, with an average of 397 cfs. The flow records of the Silver Creek at Sportsman's Access show maximum flow in March-April, generally due to local surface runoff from snow melt. The average minimum and maximum annual flows recorded at Sportsman's Access for the period 1975-1993 are 107 and 222 cfs with an average of 156 cfs.

Ground Water Pumpage

The preliminary estimate of total ground water pumpage from the study area aquifer during the irrigation season of 1993 was 51,500 acre-feet of water (Table 9). Out of 51,500 acre-feet, 38,500 acre-feet were pumped through non-artesian wells and 13,000 acre-feet were pumped from artesian wells (Table 10). This pumpage estimate includes only water pumped through irrigation wells. Water pumped by domestic and wells for commercial use was not measured as the total quantity withdrawn is small compared to other components of ground water discharge. Municipal and commercial use by the city of Hailey for 1993 was 2,400 acre feet. Half of 2,400 acre feet was pumped from ground water through the city wells and the ramaining half was utilized from Indian Creek spring. The city of Bellevue has no record of volume pumped, but the estimated diversion is 1,000 acre feet based on population. Stock water is obtained mostly from artesian

wells or diverted surface water. The small amount pumped can be included within the estimate of rural domestic water use (Moreland, 1977).

Discharge from an artesian well is directly related to the potentiometric head and thus varies significantly through the year. There are wells which only flow part of the year. Therefore, the potentiometeric head fluctuations could not be ignored in computing the flows from the artesian wells. A straight line relationship between the head and the discharge is assumed for these flow calculations. A similar procedure was adopted by Moreland (1977) for discharge calculations from the artesian wells.

Ground Water Recharge

Recharge from deep percolation of applied irrigation water and precipitation is calculated in the ground water model as a component of the total water budget. However, water diverted from the Big Wood River to the recharge pits during the irrigation season of 1993 was estimated. Total estimated amount of river water diverted to recharge pits was about 1400 acre-feet. The details of the amount of water diverted to individual recharge pits are summarized in Table 11. In 1993, relatively more water was diverted to the recharge pits due to an extended irrigation season and less demand of water for irrigation purposes. Maximum diversion of canal water into the recharge pits took place during the month of September.

Meteorological Data

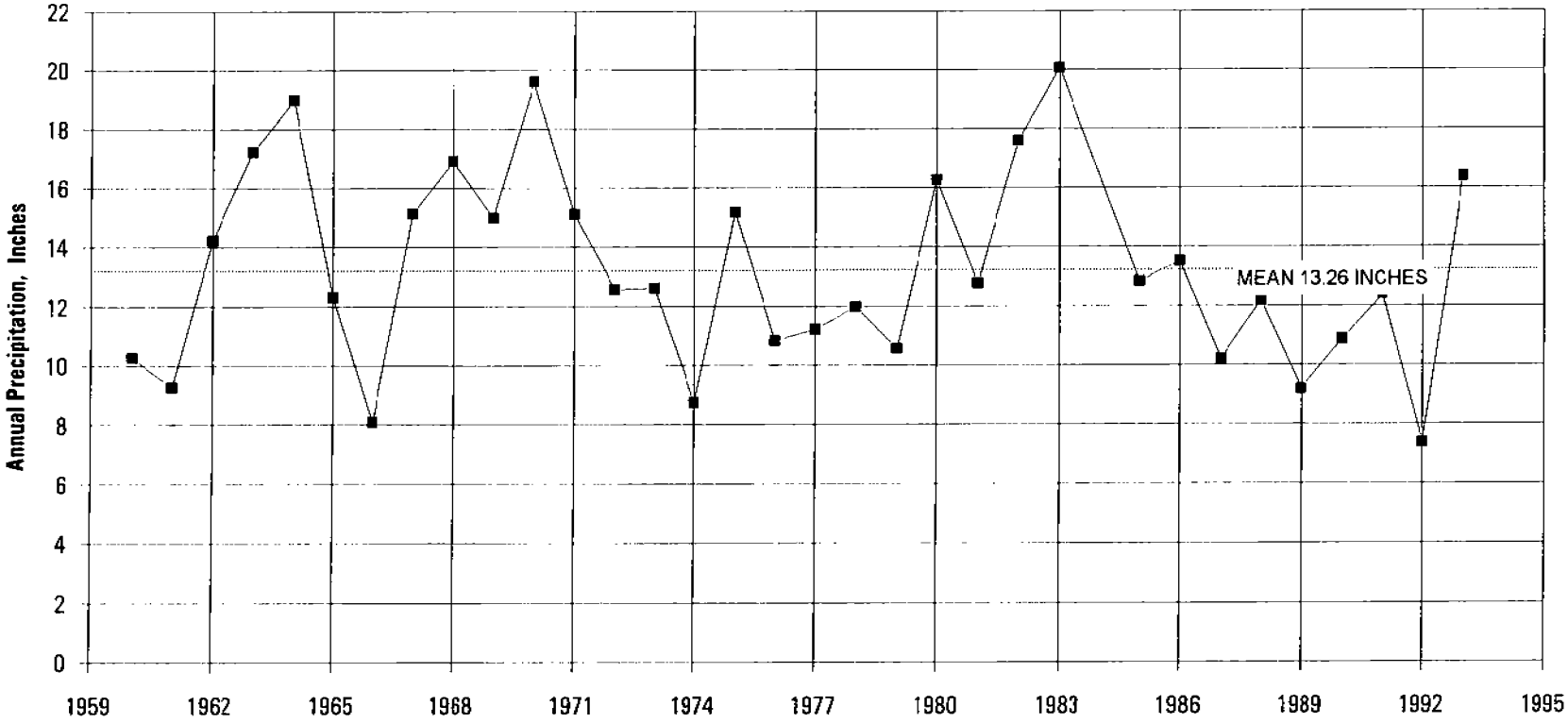
The snow course data collected from four stations established in the study are summarized in Table 12. The snow water content at the snow courses was minimal and amounts were highly variable with location of the measuring station

in the study area during the winter of 1993. Precipitation data for Big Wood River-Silver Creek watershed for the period of record from 1960 to 1993 was collected from the National Weather Service Observer at Picabo and is summarized in Table 13. Annual precipitation in the study area is highly variable with maximum of 20 inches in 1983 and minimum of 7.8 inches in 1992. Three years -- 1964, 1970, and 1983 -- were good years with annual precipitation of 19, 19.8, and 20 inches, respectively; whereas, years 1966, 1974, and 1992 were years with minimal precipitation of 8.0, 8.3, and 7.8 inches, respectively. The mean annual precipitation for the period of record for the study area is 13.26 inches. Figure 15 is the hydrograph showing the annual and mean precipitation in inches in the study area for the period of record at Picabo. Meteorological data collected from the Agri-met Station, including maximum and minimum temperature, humidity, and solar radiation, are summarized in Appendix D.

Land Use Data

To evaluate the net recharge to aquifer systems from irrigation applications, the acreage and evapotranspiration from each type of crop or vegetation is needed. Land use data, including crops grown, cropped area, type and source of irrigation collected for the study area for the 1993 irrigation season, are summarized in Table 14. Details of the land use data are provided in Appendix E. Several large holdings exist; however, the majority of the farms are small. Land ownership is changing in the area, generally leading to larger, single ownership. The major crops grown in the study area are irrigated pasture (43%), barley (31%), alfalfa (19%), potatoes (4%), oats (1%), wheat (1%), and canola (1%). The comparison of acreage of crops grown in the study area between 1975 and 1993 shows 9% and 3% increase in acreage of barley and potatoes respectively. There was about 12% decrease in the acreage of alfalfa.

Figure 15. Annual Precipitation at Picabo Weather Station



Surface water irrigated acreage is considered to be those lands receiving water from canals and streams. Ground water irrigated acreage is the land served from pumped wells, artesian wells or sub-irrigated lands. Some lands receive surface water along with supplemental supplies from wells.

A total of 34,980 acres of cultivated area were recorded, out of which 28,450 acres (81%) receive irrigation either from canals or ground water. About 47% of the total irrigated area is canal irrigated, and 53% is ground water irrigated.

Sprinkler irrigation is widely practiced. Seventy three percent (73%) of the irrigated area is sprinkler irrigated, and 22% is gravity irrigated. The remaining 5% of the irrigated area is sub irrigated. The percent of sprinkler irrigated area has increased from 13% in 1975 to 74% in 1993.

Ground Water Flow Model

The USGS MODFLOW ground water flow model has been provisionally selected for the modeling phase of the study. MODFLOW is a three dimensional, finite-difference ground water flow model. It is a peer reviewed, well documented, widely used ground water flow model capable of representing flow in two and three dimensions in confined and unconfined aquifers under steady-state or transient conditions. Both pre-processor and post processor are available to prepare input data files and process output data. Other interfaces available with the MODFLOW model, such as Lotus and Surfer and compatible graphics packages, are convenient to import head and draw down files into these packages for further processing. The latest version of MODFLOW uses virtual memory which permits those with small computers to use large grids to simulate the ground

water flow systems. The next upgrade of MODFLOW will be capable of simulating solute transport systems.

Water Budget

The components of the water budget for the Big Wood River-Silver Creek aquifer system are recharge to and discharge from the aquifer and seasonal changes in aquifer storage. The recharge components include ground water under flow from the area above Hailey, seepage from the Big Wood River, deep percolation from irrigation diversions from the Big Wood River, and precipitation. The discharge from the watershed is comprised of ground water outflow near Picabo, spring outflows (Silver Creek), evapotranspiration from crops and phreatophytes, and spring flows into the Big Wood River from west side near Stanton Crossing.

Ground water under flow entering the aquifer system above Hailey constitutes the major part of recharge. Ground water under flow above Hailey was estimated by Smith (1959), Luttrell and Brockway (1984), and Frenzel (1989) as 34,000, 40,000, and 13,000 acre-feet per year, respectively. The variation in these estimates is mainly due to the methodology of analysis and the values of hydraulic conductivity used, which range from 150 to 500 feet per day. However, an estimate of under flow of 40,000 acre-feet determined by Luttrell and Brockway (1984) has been used for this report. This estimate was determined by subtracting the average discharge for the Big Wood River at Hailey from an empirically calculated water yield and was verified by the Darcy's Law. Similarly calculated, an estimate of 11,800 acre-feet ground water outflow from the aquifer system below Picabo has been used for this water budget. Ground water underflow to the west is considered negligible due to geologic boundaries (Brockway and Grover 1978). Seepage loss from the Big wood River is another

major source of recharge. A seepage loss estimate of 22,360 acre-feet, determined by Luttrell and Brockway (1984) during the hydraulic relationship studies of the Big Wood River, has been used. Data on other components of the water budget, such as precipitation, irrigation diversions, recharge through pits, spring outflows and evapotranspiration, were measured as part of this hydrological study of the Big Wood River-Silver Creek watershed. These water budget components and their estimated values are shown in Figure 16. Total inflow and outflow from the aquifer system is approximately 198,000 and 216,000 acre feet, respectively. The 18,000 acre feet difference is partly accounted for by changes in storage, which is depicted by the falling ground water levels in the study area, and variations in other components used in the water budget due to time differences in measurements.

Evaluation of land and water use data for 1993 for the study area suggest that the percentage of area irrigated by ground water is nearly the same as in 1975 (Table 14). However, there is an increase in the area under sprinkler irrigation from about 13% to 74%. The question arises: if more area has been brought under sprinkler irrigation and only a small increase in the irrigated acreage has occurred, then why has the ground water pumpage in the study area apparently increased (from 28,000 to 51,500 acre feet)? The increase in ground water use in the study area can be attributed to reduction in canal diversions. In 1975, about 142,600 acre feet of canal water was diverted to the study area compared to 92,240 acre feet during 1993. This decrease of 50,000 acre feet in canal diversion is likely being compensated by expanding the sprinkler irrigated area and pumping more water from the aquifer. Figure 17 shows the annual diversions from Big Wood River above Magic Reservoir from 1931 through 1993 as compiled by IDWR. This shows a decrease in total diversions of 37,000 acre feet between 1975 and 1993.

Figure 16. Water Budget for Aquifer System
Big Wood River -- Silver Creek Area
for 1993

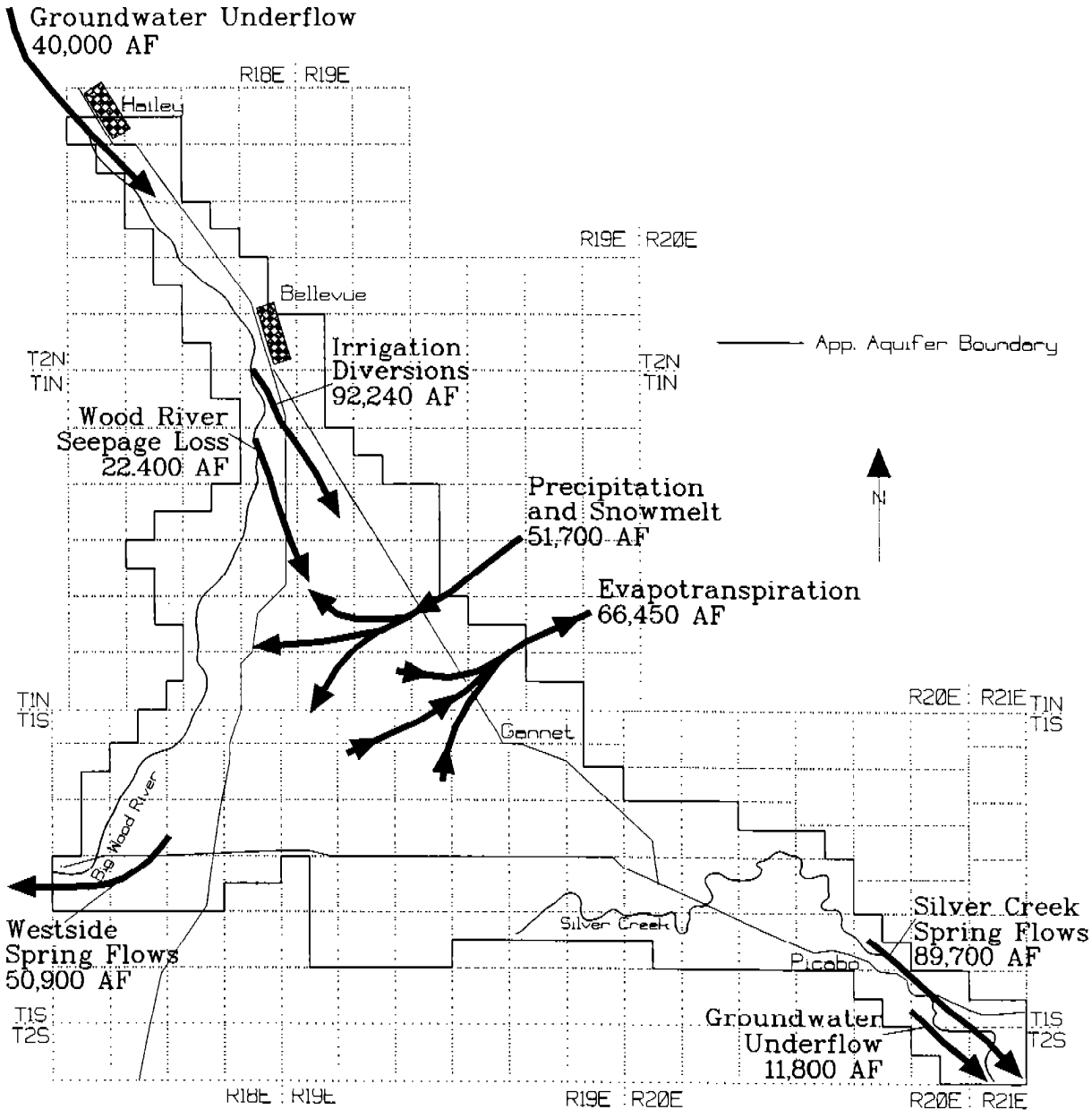
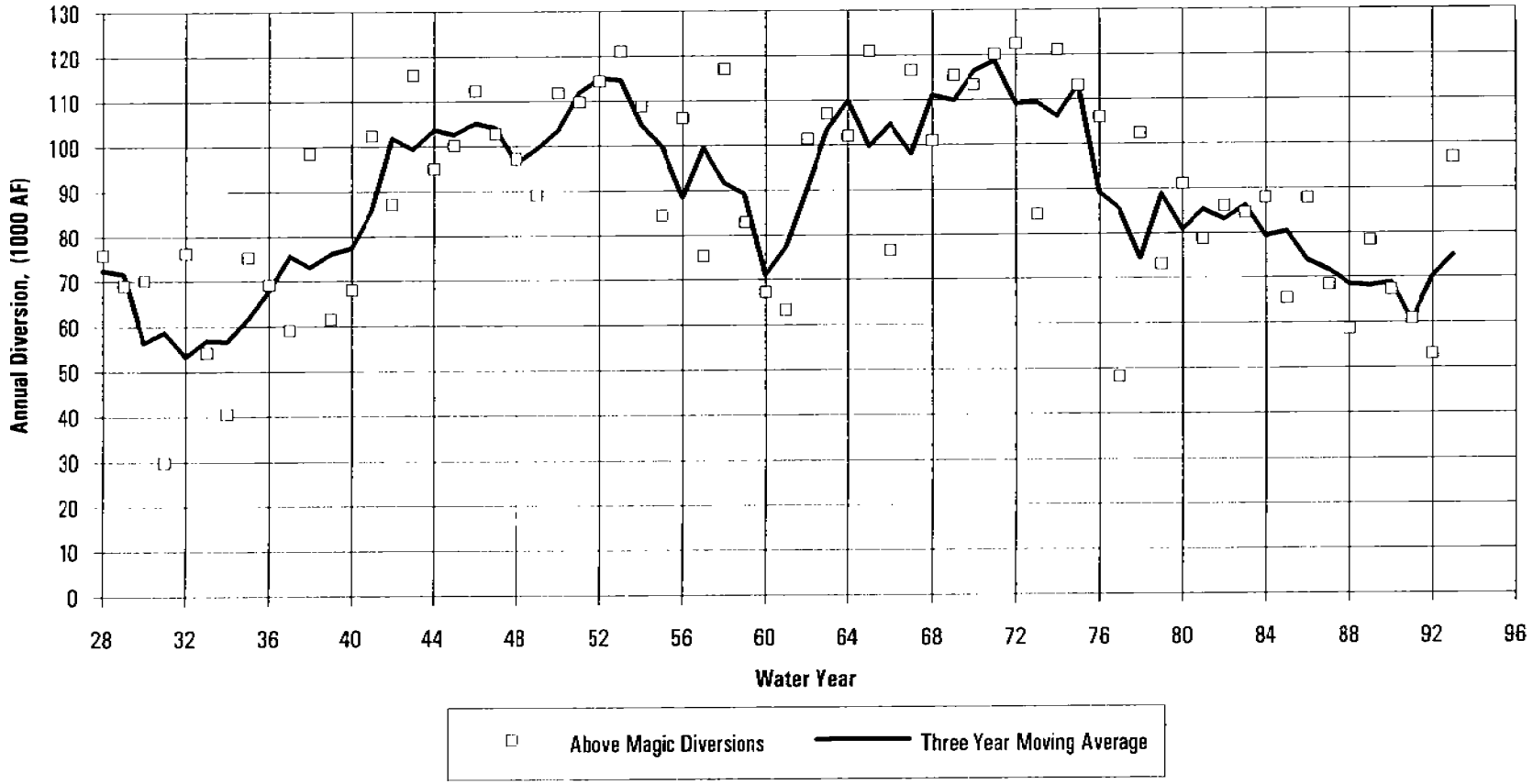


Figure 17. Big Wood River Irrigation Diversions above Magic Reservoir



GENERAL TRENDS

Ground water use in the study area is increasing. Water withdrawals from pumped irrigation wells have almost doubled since 1975. However, small increases in pumpage from artesian wells have occurred. Moreland in 1975 estimated 60 irrigation wells in the study area. However, he used 48 irrigation wells for calculating the ground water pumpage for his "ground water-surface water interactions" study in 1975 compared to 80 irrigation wells in 1993 (Table 14). In any event, it appears that more than 20 irrigation wells may have been added in the study area since 1975. No increase in the number of artesian wells was observed.

Average annual flow in the Silver Creek below Picabo after 1930 is reasonably constant at about 170 cfs. Average annual flow in the creek decreased markedly after 1987 to below 120 cfs in 1992 and 1993 (Figure 10). Seasonal variation in mean daily discharge in Silver Creek at Sportsman's Access is shown in Figure 7. Maximum seasonal variation in flow takes place in March-April, followed by August-October (Fig. 7); whereas, the maximum seasonal variation in the Big Wood River at Hailey and Bellevue takes place from April-July (Figure 9).

A comparison of depth to ground water measurements on wells located in different parts of the aquifer system show different magnitudes of variation in water level depths. Depth to water on 18 wells with historical records were compared with 1993 measured depth locations. A general declining trend in water levels was observed. During the period from 1970 to 1993, declines of more than one foot in water levels have occurred on most of the pumping wells selected for this comparison. On the Eakin well, located about 3.5 miles south of Bellevue, a decline of five feet in the water level was observed. However, an average drop of about three feet in potentiometric head on the artesian wells occurred (Table 15).

To draw long term conclusions about the precipitation pattern and magnitude, precipitation data from 1960 to 1993 was collected and evaluated. A maximum precipitation of 20 inches in 1983 and minimum of 7.8 inches in 1992, with an average of 13.26 inches for the period of record, was measured by the National Weather Service at Picabo. The precipitation during the eight year period from 1985 to 1992 was below normal, with an average of 11 inches (Figure 15).

In 1975, about 143,000 acre feet of canal water was diverted to the study area compared to 92,000 acre feet during 1993. This decrease of 51,000 acre feet in canal diversion is partly due to low flows in the Big Wood River and less demand for water in the study area. Data on annual canal diversions from the Big Wood River above Magic reservoir, compiled by the Idaho Department of Water Resources (IDWR) from 1931 through 1993, show the decreasing trend in canal diversions (Figure 17). The annual canal diversion data show a decrease in total diversions of 37,000 acre feet between 1975 and 1993.

SUMMARY AND CONCLUSIONS

The Big Wood River and Silver Creek watersheds in Blaine county have met the domestic water supply and irrigation needs for over a century. Population growth, changes in irrigation technology, land use, and climate coupled with the frequent drought events in southern Idaho have altered the water availability and demand. This has affected the ground water levels in the area and flows in the creeks. Decreased flow in the world famous Silver Creek has caused elevated stream water temperature and depletion of dissolved oxygen threatening the rare habitat the creek supports.

The study of the Big Wood River-Silver Creek hydrologic system to provide a data base and understanding of the hydrologic relationships commenced

in January 1993 under a cooperative agreement between The Nature Conservancy and the University of Idaho Water Resources Research Institute. Field work began on the design and installation of surface water, ground water, and meteorological monitoring networks during April 1993. Data collection from these networks continued for the entire irrigation season of 1993. The surface water monitoring network consisted of 15 spring fed streams and three major canals of the District 45 system diverting from the Big Wood River. The ground water monitoring network comprised 80 wells. The meteorological network consisted of three snow course survey sites, one snow pillow site and an Agri-met station. The total sample of 80 ground water wells contained 56 non-artesian and 17 artesian wells. Sixty seven were irrigation wells, seven domestic wells, and six non-used observation wells. Rating curves and hydrographs for the surface streams were developed to estimate the amount of surface water discharged from the aquifer system. Data on irrigation diversions from the Big Wood River for individual and multiple-user canal and laterals were collected for the irrigation season of 1993. Four sets of ground water level measurements were conducted during April-May 1993, August 1993, December 1993, and in April 1994. Data on ground water pumpage and ground water recharge volumes were collected during the irrigation season of 1993. Meteorological data included, snow depth, density, snow water content, rainfall, temperature, humidity, and wind speed. Land use data, including the area under cultivation, types of crops, source of irrigation water, and method of irrigation, were collected. Data on aquifer characteristics such as hydraulic conductivity, transmissivity, and storage coefficient were collected from field studies conducted by the USGS and the University of Idaho.

Ground water levels in the study area, rise and fall in response to recharge and discharge from the aquifer. However, water level fluctuation patterns and magnitudes are different at different locations of the aquifer. Maximum water

level elevations generally occur in late June or July depending upon the irrigation diversions. Water table wells in the southern part of the area show a maximum change approximately two weeks later than the northern wells and sustain a level until late October. The recession of the water table occurs through the winter until March or April when recharge from spring irrigation begins. Pumping wells exhibits more fluctuation in water level than the artesian wells. A 15 ft. fluctuation in the water level of the Eakin well, 3.5 miles south of Bellevue, was observed during the year 1993, whereas a potentiometric head fluctuation of about 2.5 ft was observed in the Punkin Center artesian well near Highway 20. Comparison of ground water levels on eighteen wells with historical records show a general decrease from 1975 to 1993 (Table 15). During the period from 1975 to 1993, difference in water levels of more than one foot has occurred on most of the pumping wells selected for this comparison. An average decline of about three feet in pressure head on the artesian wells was measured.

Ground water use in the study area is increasing. Water withdrawals from pumped irrigation wells have almost doubled since 1975. However, small increases in pumpage from artesian wells have occurred. There were about 48 irrigation wells pumping in the study area in 1975 (Moreland 1977) compared to 80 irrigation wells pumping in 1993. The number of artesian wells remained constant. The volume of water pumped by wells for domestic and commercial purposes is generally insignificant compared to the volumes pumped by the irrigation wells and was not documented for this phase of the study. The recharge to the aquifer through the gravel pits in the study area was estimated as 1,400 acre feet during the 1993 irrigation season.

The canal irrigation water diversion usually begins in April and continues through October each year. Total amount of canal water diverted to the study area

from the Big Wood River during the irrigation season of 1993 was 92,240 acre feet. Ditches in the study area carrying canal water to fields significantly contribute to recharge to the aquifer. The measured seepage loss varied from 0.3 to 7.1 cubic feet per day.

Of the 28,500 irrigated acres in the study arca south of Hailey, about 47% are irrigated from canals and 53% are ground water irrigated. About 74% of the irrigated area is sprinkler irrigated and 20% receives water by gravity irrigation. The remaining 5% of the irrigated area is sub irrigated. The major crops grown in the study area are irrigated pasture (42%), barley (31%), alfalfa (19%), potatoes (4%), oats (2%), wheat (1%), and canola (1%). The irrigated area has not increased appreciably since 1978; however, the percent of sprinkler irrigated area has increased from 13 percent in 1975 to 73 percent 1993.

The Big Wood River at Hailey has a historical base flow during winter and early spring of about 150 cfs with average peaks during May or June of 1500 cfs. The average annual flow has varied from less than 100 cfs in 1931 to more than 800 cfs in 1983. During the six years from 1987 through 1992, the average annual flow was about 275 cfs, which approaches the 200 cfs average annual flow in the early 1930s. Water year 1977 was the worst single year in recent times with an average annual flow of 204 cfs, followed by 1992 at 210 cfs. Water year 1993 was a somewhat better year with an average annual flow of 270 cfs.

Maximum flow in Silver Creek generally takes place in March or April due to local runoff. Spring flows increase in August through November and then decrease through January or February. This contrasts with the maximum seasonal flow in the Big Wood River which takes place from April-July. Average annual flow in Silver Creek below Picabo after the 1930s was reasonably constant at

about 160 cfs. Flow in the creek decreased markedly after 1987 and averaged below 120 cfs from 1988 through 1993.

Annual precipitation in the study area is highly variable. Precipitation data from 1960 to 1993 shows a maximum precipitation of 20 inches and minimum of 7.8 inches in 1992, with an average of 13.26 inches for the period of record as measured by the National Weather Service at Picabo. The precipitation during the eight year period from 1985 to 1992 was 11 inches which is significantly below average.

A tentative water budget for the aquifer system of the study area has been prepared. The major components of the water budget are: 1) ground water underflow above Hailey; 2) irrigation diversions from the Big Wood River; 3) seepage from the Big Wood River to the study area; 4) precipitation and snow melt; 5) outflow through the Silver Creek; 6) ground water outflow near Picabo; 7) spring outflows from west side of the study area; and 8) evapotranspiration. The estimated total inflow to the aquifer system and outflow from the aquifer system amounts to 198,000 and 216,000 acre feet respectively (Figure 16).

A three dimensional ground water model code (MODFLOW) has been selected for use in the second phase of the study. MODFOW is a three dimensional, finite-difference code. It is a peer reviewed, well documented, widely used ground water model code capable of simulating the flow in two and three dimensions in confined and unconfined aquifer systems under steady-state or transient conditions.

Field data collected during the first phase of the study is adequate for development of a three dimensional ground water flow model. In phase two of the study, the collected data will be tailored to meet the model input data requirements

and a ground water flow model will be developed. The model then can be used to evaluate the several "what if" scenarios for guiding the future planning process.

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Table 1. Wells in Ground Water Monitoring Network

S.No	Local Name	Site ID	Owner
1	2S-20E-1ACC2	4316421140130	SIMPLOT
2	1S-20E-26CDC1	4318101140259	CEMETRY
3	1S-20E-27BDA1	4318361140401	USGS
4	1S-20E-36BDC1	4317431140145	MILLIGTON
5	1S-20E-30BAA1	4318581140731	PURDY
6	1S-20E-20DCD1	4319041140602	PURDY
7	1S-20E-16CAD1	4320051140516	GARDNER
8	1S-20E-17DBC1	4320071140619	AMARAL
9	1S-20E-19BDA1	4319381140734	MOLYNEUX
10	1S-20E-18DCB1	4320001140728	CASTLE
11	1S-19E-25ACC1	4318361140840	MOLYNEUX
12	1S-19E-3BAA1	4322001141030	GARDNER
13	1S-19E-24BAA1	4319521140840	HUBSMAN
14	1S-19E-26BDD1	4318371140954	W.GRAY
15	1S-19E-26AAC1	4318521140935	UPRR
16	1S-19E-14DDD1	4319531140918	HIGHWAY
17	1S-19E-14CBB1	4320171141028	LARKIN
18	1S-19E-11ADA1	4321211140924	BEESHAW
19	1S-19E-11BBB1	4321361141029	BYINGTON
20	1S-19E-22CCD1	4319011141122	GRAY
21	1S-19E-22AAA1	4319511141029	HIGHWAY
22	1S-19E-22AAB	4319511141100	STINSONS
23	1S-19E-22BBB1	4319511141139	LOVELAND
24	1S-19E-22CAA1	4319251141105	GRAY
25	1S-19E-15DDD2	4319521141031	HIGHWAY
26	1S-19E-10AAB1	4321331141048	BYINGTON
27	1S-19E-10BDA1	4321241141107	RHEA
28	1S-19E-2CBC1	4321541141029	BEESHAW
29	1S-19E-3DAB1	4321591141047	GARDNER
30	1S-19E-16BCC1	4320221141253	BICKETT

31	1S-19E-16CCD2	4319551141235	BICKETT
32	1S-19E-20ABB1	4319501141321	LUCKE
33	1S-19E-20BAB1	4319431141343	STEVENSON
34	1S-19E-17AAA1	4320421141254	HIGHWAY
35	1S-19E-17DAC2	4320041141307	BICKETT
36	1S-19E-5ACD1	4322071141307	NORTH STAR
37	1S-19E-6ADD1	4322071141408	PETERSON
38	1S-19E-7BAA1	4321331141443	SCHOESSLER
39	1S-19E-7DBB1	4321071141433	ROGERS
40	1S-19E-18CAB1	4320161141455	WURST
41	1S-19E-18DDD1	4319521141407	HIGHWAY
42	1S-19E-24ACA1	4319381140830	WORINGTON
43	1N-19E-28BBB1	4323461141223	KNORP
44	1N-19E-28DAA1	4323211141115	HAWAIAN TRUST
45	1N-19E-28BDC1	4323251141207	HAWAIAN TRUST
46	1N-19E-33DBB1	4322331141146	GARDNER
47	1N-19E-20BAA1	4324421141305	HELLYER
48	1N-19E-20BBC1	4324321141333	STRUTHERS
49	IN-19E-7CDB1	4325471141424	HENDRIX
50	1N-19E-18ADA1	4325211141336	MARTIN
51	1N-19E-31CAA1	4322281141419	NEGREPONTE
52	1N-19E-28BDC1	4323251141202	BROSSI
53	1S-18E-13CCC1	4319551141629	FREDRICKSON
54	1S-18E-13CAA1	4320141141558	WURST
55	1S-18E-13DDB1	4370001141529	GRAY
56	1S-18E-2DDA1	4321461141623	LEE
57	1S-18E-14AAB1	4320401141630	STEWART
58	1S-18E-12BBB1	4321341141627	STUART
59	1S-18E-23BAB	4319301141630	DAVIS
60	1N-18E-25AAB2	4323491141506	EAKIN
61	1N-18E-13ACA1	4325181141509	KNIGHT
62	1N-18E-1DAA1	4326571411448	CANAL CO.
63	IN-18E-1BAA1	4327171141526	STEWART

64	IN-18E-1BCB1	4327051141555	HURST
65	1N-18E-14ABA1	4325301141620	CLOUGHTON
66	1N-18E-15DAA1	4325021141712	JOHN BROWN
67	1N-18E-27AAA1	4323481141715	FARRINGTON
68	1N-18E-26BBD	4323451141700	FRED BROWN
69	1N-18E-14DDB1	4324571141613	NURSERY
70	1N-18E-36DDD1	4322071141457	MONTGOMERY
71	2N-18E-36CDA1	4327291141530	ROGER
72	2N-18E-36ADC1	4327451141455	BELLEVUE CITY
73	2N-18E-26ABD1	4328551141620	HAILEY CITY
74	2N-18E-26CBB1	4328321141710	FORSTMAN
75	2N-18E-23DCC1	4329071141632	ECCLES
76	2N-18E-23DDB1	4329101141615	HAILEY CITY
77	2N-18E-22DDB1	4329141141726	YOUNG
78	2N-18E-22BAA1	4329531141755	ECCLES
79	2N-18E-15BAC1	4327371141219	HAILEY CITY
80	2N-18E-15DBC1	4330031141727	GAUGE

Table 2. Irrigation Diversions from Big Wood River and Silver Creek-1993

Site No.	Canal Name	Owner	Diversion from Big Wood River (af	Diversion from Silver Creek (af)
33	Cove	Various	2256	
35-A	Drager	Gregory Moore	7	
37	Kline (Slough)	Leroy Lewis	183	
38-P	Werry	Jack Parker	21	
39	Wrencher	John Borton	0	
39-A	Wrencher	Ron Hansen	287	
41	Peck	Thomas Peck	81	
42-P1	Cal-Pac	Cal-Pacifco	84	
42-P2	Pac	Cal-Pacifco	120	
42-P3	Scofield	Michael Schweitzer	29	
42-A	Haugh	Chris Haugh	363	
43	Bramon	Frank Bramon	60	
44	Kohler	Ted Devine	596	
45	District Canal	Various	44498	
49	Bannon	Various	1369	
50	Glendale	Various	7126	
55-C	Baseline Canal	Various	17169	
56-D	Dittoe	A.W. Molyneux	2646	
57-F	Brown	Wood River Ranches	89	
57-F	Brown	Mike MC Gonigal	1005	
61	Black's Ditch	Hadley Stuart	5488	
62	Graff	Wood River Ranches	3098	
63	Uhrig	Y-3 Ranch	954	
64	Flood	Y-3 Ranches	879	
71	Hice	Davis Investment	1416	
71-A	Hice	Bob Davis	935	
72	Martin	M.Weston & J. Scott	674	
74	Cloud	Edith Fredrickson	91	
75	Pugel	Ellyn Sue Ragone	142	
75	Pugel	Edith Fredrickson	49	
75-P	Pugel	Gertrude Peet	97	
76-P	Brandon		0	
77-P	Davis	Spring Creek Ranch	429	
000-0P	Roger	Rogers		43
000-0P1	Buhler Drain	Rogers		0
00-P5	Teeter Canyon	John Stevenson		191
00P6	Prinz Well	Nature Conservancy		450
00P7	Stalker Creek Pump	Robert Gardner		81
00P8	CSV Pump	Nature Conservancy		10
0001	Willis	John Stevenson		947
00-0P	Steve Well	John Stevenson		135

00-P1	Bickett Well	John Flood	0
00P2-P4	Lucke Well	Stevenson and Flood	1397
00P3	Patten Creek Pump	John Stevenson	71
9	Bill	Bill McMahan	70
10	Heath	Fred Judd	36
10-P	Heath	Fred Judd	0
11	Gillihan	Lee Amaral	1315
11	Gillihan	Fish & Game	1290
11	Gillihan	Gary Castle	42
11	Gillihan	Picabo Livestock	1290
11	Gillihan	Ward Woods	56
11	Gillihan	Kenneth Worthington	116
12	Max	A. W. Molyneux	360
39-P	Molly Pump	A.W.Molyneux	117
12A	Loving	Gerald Bashaw	1723
12B	Loving	Gerald Bashaw	1025
13	Stanfield	Robert Gardner	646
14-P	Mantey	Robert Gardner	147
15	Patterson	A. W. Molyneux	438
15-A	Patterson	Fish & Game	4559
16-P	Mill	Pat Millington	1392
16-P1	Tick Tock	Tick Tock	898
17	Albertson	Picabo Livestock	509
18	Kilpatrick	Picabo Livestock	6585
18	O Drain	Picabo Livestock	3846
18-P	Rinkel Well	Harry Rinker	255
19	Iden	Idaho Fish & Game	2050
19-P	Iden	Picabo Livestock	24
19-P1	Man	Tick-Tock	165
21	Swan	Bill Swanson	45
22-P	Chaumell	Pat Millington	0
22-P1	Chaumell	Pat Millington	135
22-P2	Chaumell	Pat Millington	27
22-P3	Chaumell	Pat Millington	103
22-P4	Chaumell	Pat Millington	499
23	Brodie	Moj Brodie	551
23-P	Neider	C&Y Ranch	217
23-P1	Brodie	Moj Brodie	650
24-P	Lawson	John Flood	350
24-P1	Lawson	John Flood	200
24-P2	Hunter	John Flood	91
26	Brett	Warren Nisson	211
28	Brett	Warren Nisson	194
29-P	Clark	Lawrence Schoen	45
29-P1	Clark	Jack Young	0

29-P2	Clark	Jack Young		128
29-P3	Clark	Walter Hofstetter		84
31	Osterhouse	Harry Rinker		697
		Total	92241	36506

Table 3. Streams in Surface Water Monitoring Network

Sr.No	Site ID	Name Of Stream
1	1S-18E-16d	Brock Creek
2	1S-18E-22a	Spring Creek
3	1S-18E-21b	Willow Creek at Mouth
4	1S-18E-14b	Crystal Creek
5	1S-18E-14d	Willow Creek at Rest Area
6	1S-18E-17c	Buhler Drain
7	1S-19E-20b	Patton Creek
8	1S-19E-21b	Cain Creek
9	1S-19E-21a	Chaney Creek
10	1S-19E-22a	Mud Creek
11	1S-19E-23b	Wilson Creek
12	1S-19E-14d	Grove Creek
13	1S-19E-13c	Loving Creek
14	1S-20E-26c	Silver Creek at Swanson Bridge
15	1S-20E-31d	Silver Creek at Priest Road

Table 4. Ground Water Level Measurements

Site ID	Local Name	Owner	Depth to Water below Ground Surface			
			Apr/May 93	Aug-93	Dec-93	Apr-94
4316421140130	2S-20E-1ACC2	Simplot	143.38	145.50	148.00	150.80
4318101140259	1S-20E-26CDC1	Cemetery	124.55	120.80	125.90	129.60
4318361140401	1S-20E-27BDA1	USGS	64.09	69.10	64.10	67.80
4317431140145	1S-20E-36BDC1	Millington	155.45	151.45	155.00	157.45
4318581140731	1S-20E-30BAA1	Purdy	6.10	8.40	6.30	7.70
4319041140602	1S-20E-20DCD1	Purdy	15.34	19.35	16.10	17.05
4320051140516	1S-20E-16CAD1	Gardner	5.10	6.60	3.75	6.30
4320071140619	1S-20E-17DBC1	Amaral	14.70		0.00	
4319381140734	1S-20E-19BDA1	Molyneux	48.88	57.80	48.00	49.75
4320001140728	1S-20E-18DCB1	Castle	39.60	44.00	38.40	40.70
4318361140840	1S-19E-25ACC1	Molyneux	31.00	31.15	30.15	30.65
4322001141030	1S-19E-3BAA1	Gardner	32.18	24.40	27.50	
4319521140840	1S-19E-24BAA1	Hubsman	9.49	14.90	9.90	10.75
4318371140954	1S-19E-26BDD1	W.Gray	37.40	58.10	36.40	36.10
4318521140935	1S-19E-26AAC1	Uprr	1.05	1.20	0.25	0.90
4319531140918	1S-19E-14DDD1	Highway	3.55	6.25	6.15	6.00
4320171141028	1S-19E-14CBB1	Larkin	4.37	3.35	3.70	3.80
4321211140924	1S-19E-11ADA1	Beeshaw	5.13	2.60	3.00	4.35
4321361141029	1S-19E-11BBB1	Byington	11.85	7.90	9.20	10.20
4319011141122	1S-19E-22CCD1	Gray	-8.40	-11.10	-12.00	-12.40
4319511141029	1S-19E-22AAA1	Highway	-4.60	-3.40	-6.00	-2.25
4319511141100	1S-19E-22AAB	Stinson	-8.78	-10.70	-9.70	-9.20
4319511141139	1S-19E-22BBB1	Loveland	-3.90	-7.00	-8.50	-7.50
4319251141105	1S-19E-22CAA1	Gray	-6.60	-13.40	-7.60	-6.00
4319521141031	1S-19E-15DDD2	Highway	4.74	4.55	4.35	4.00
4321331141048	1S-19E-10AAB1	Byington	15.65	9.85	13.00	14.75
4321241141107	1S-19E-10BDA1	Rhea	11.84	6.60	9.00	10.25
4321541141029	1S-19E-2CBC1	Beeshaw	18.45	11.40	14.70	16.30
4321591141047	1S-19E-3DAB1	Gardner	26.98	19.70	22.60	24.60
4320221141253	1S-19E-16BCC1	Bickett	-5.50	-15.80	-7.50	-6.50
4319551141235	1S-19E-16CCD2	Bickett	-12.10	13.90	-12.30	-6.80
4319501141321	1S-19E-20ABB1	Lucke	-13.58	-11.90	-12.60	-16.21

4319431141343	1S-19E-20BAB1	Stevenson	-17.10	-15.80	-13.20	-17.50
4320421141254	1S-19E-17AAA1	Highway	6.00	5.25	6.50	
4320041141307	1S-19E-17DAC2	Bickett	-8.57	-10.60	-10.47	-8.17
4322071141307	1S-19E-5ACD1	North Star	26.00	22.30	23.70	38.20
4322071141408	1S-19E-6ADD1	Peterson	35.90	20.80	30.50	31.70
4321331141443	1S-19E-7BAA1	Scholssler	16.20	5.40	5.02	13.12
4321071141433	1S-19E-7DBB1	Rogers	2.50	0.15	0.05	1.25
4320161141455	1S-19E-18CAB1	Wurst	-12.10	-14.80	-12.20	-10.90
4319521141407	1S-19E-18DDD1	Highway	2.50	0.25	0.05	-0.10
4319381140830	1S-19E-24ACA1	Worington	13.10	14.80	12.90	13.25
4323461141223	1N-19E-28BBB1	Knorp	70.49	54.90	63.90	70.70
4323211141115	1N-19E-28DAA1	Hawaian Trust	70.00	55.85	52.75	73.75
4323251141207	1N-19E-28BDC1	Hawaian Trust	64.84	52.10	52.00	
4322331141146	1N-19E-33DBB1	Gardner	45.75	31.25	40.25	48.05
4324421141305	1N-19E-20BAA1	Hellyer	88.00	69.75	84.55	89.35
4324321141333	1N-19E-20BBC1	Struthers	79.80	70.15	84.50	83.00
4325471141424	IN-19E-7CDB1	Hendrex	56.25	48.76	47.50	48.50
4325211141336	1N-19E-18ADA1	Martin	67.27	53.25	50.05	67.40
4322281141419	1N-19E-31CAA1	Negrapoit	38.80	29.50	48.20	48.80
4323251141202	1N-19E-28BDC1	Brossi	64.84	52.10	52.90	53.00
4319551141629	1S-18E-13CCC1	Eidth	-28.66	-30.80	-28.80	26.10
4320141141558	1S-18E-13CAA1	Wurst	-17.31	-14.40	-12.75	-10.50
4370001141529	1S-18E-13DDB1	Gray	-24.71	-25.30	-22.00	-21.50
4321461141623	1S-18E-2DDA1	Lee	-5.50	-4.70		-5.00
4320401141630	1S-18E-14AAB1	Stewart	-21.35	-24.70	-22.00	-16.00
4321341141627	1S-18E-12BBB1	Stuart	-4.50	-15.75	-8.50	-6.80
4319301141630	1S-18E-23BAB	Davis	-38.00	-33.20	-29.50	-24.50
4323491141506	1N-18E-25AAB2	Eakin	83.03	67.50	79.40	81.95
4325181141509	1N-18E-13ACA1	Knight	40.75	36.80	40.50	42.80
4326571411448	1N-18E-1DAA1	Canal Co.	46.64	42.20	46.00	49.00
4327171141526	IN-18E-1BAA1	Stewart	34.50	35.90	39.50	38.50
4327051141555	IN-18E-1BCB1	Hurst	2.60	3.20	4.40	4.20
4325301141620	1N-18E-14ABA1	Cloughton	71.60	85.00	83.30	75.50
4325021141712	1N-18E-15DAA1	John Brown	Dry @ 85'			
4323481141715	1N-18E-27AAA1	Farrington	46.10	34.00	36.00	42.00
4323451141700	1N-18E-26BBD	Fred Brown	46.80	23.50	35.50	41.50
4324571141613	1N-18E-14DDB1	Nursery	53.60	47.00	44.50	76.70

4322071141457	1N-18E-36DDD1	Montgomery	14.80	12.60	10.00	9.30
4327291141530	2N-18E-36CDA1	Roger	32.74	35.25	40.20	38.00
4327451141455	2N-18E-36ADC1	Bellevue City	78.20	85.00	84.80	85.60
4328551141620	2N-18E-26ABD1	Hailey City	-37.95	40.20	42.40	39.00
4328321141710	2N-18E-26CBB1	Forstman	5.20	4.70	3.50	4.50
4329071141632	2N-18E-23DCC1	Eccles	35.73	37.40	38.20	47.30
4329101141615	2N-18E-23DDB1	Hailey City	-40.87	42.90	44.50	43.20
4329141141726	2N-18E-22DDB1	Young		5.20	3.80	4.00
4329531141755	2N-18E-22BAA1	Eccles	18.22	19.20	21.30	21.50
4327371141219	2N-18E-15BAC1	Hailey City	-36.80	34.45	38.00	38.75
4330031141727	2N-18E-15DBC1	Gauge	34.01	45.13	36.28	37.33

NOTE: Minus sign indicates the artesian wells

Table 5. Historical Ground Water Level Data-Observation Well

Average of Monthly Depth to Water Measurements

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1955	47.10	47.20	47.80	48.28						42.95	45.29	
1956	45.35	46.99	47.44	44.90	36.23	34.16	34.64	40.42	41.92	42.81	44.05	45.28
1957	46.93	47.09	47.04	47.08	44.22	33.59	35.04	39.97	40.66	43.44		45.53
1958				46.22	38.99	34.12	36.59	40.05	41.07	42.77	43.93	46.03
1959	46.87	47.80	48.55	45.97	40.95	36.84	41.62	45.38	44.34	44.95	46.65	48.00
1960				45.79	41.61	36.68	43.87	45.18	45.20	44.84		46.31
1961		50.12	49.76	49.08	46.18	37.39	39.78	45.87	43.14	44.74	46.29	46.27
1962				47.06	36.98	34.44	36.44	41.93	41.14	44.44	44.72	46.45
1963	47.60		46.04	47.34	40.70	35.32	34.12	41.26	41.48	43.09	44.54	45.75
1964	46.59		47.24	45.12	39.85	38.22	36.70	41.08	41.81	43.68	45.18	46.30
1965	45.07	46.62		45.37	40.29	31.51	34.51	33.30	39.55	43.54	44.79	46.60
1966	47.41	48.30	48.11	46.22	35.23	36.70	41.30		44.66	43.23	44.29	
1967	47.57	49.46	50.15	48.40	37.78	34.33	36.34	38.34	40.78	41.90	45.36	47.26
1968	48.11		49.05	46.46	40.11	34.90	37.53	43.14	41.76	43.31	45.29	46.92
1969			50.23	43.53					39.95			
1970			46.75						40.20			
1971				43.79					38.60			
1972			44.52						40.80			
1973			47.55						44.07			
1974		47.59							40.35			
1975			46.50		40.09	33.20	35.50	37.62	38.92	40.92	42.97	45.54
1976			47.92						41.89			
1977			48.35		45.61		41.22		45.09		46.31	
1978	48.90		48.49		43.20		37.57	40.87	42.40	43.61	44.69	46.45
1979	47.22	47.51	47.90	47.31	44.29	39.53	41.03	43.76		45.51	45.93	47.36
1980	48.56	48.92	49.15	47.64	42.75	40.70	38.65	40.56	42.45	43.20	44.41	46.26
1981	47.65	48.15	47.91	45.61	42.33	38.95	38.29	42.37	44.24	44.60	45.14	46.92
1982	47.59	48.29	47.82	46.46	41.85	39.44	39.49	39.28	42.12	43.29	44.12	45.59
1983	46.28	46.95	45.80	43.84	39.94	36.41	37.20	37.62	41.63	42.14	42.51	43.26
1984	43.37	43.84	45.34	43.81	43.02		38.22		42.45		45.20	45.34
1985	45.90	46.70	47.15	45.54	41.74	38.52	40.87	42.65	43.25	44.28	46.06	46.52
1986	46.01	46.76	43.60	43.30	41.38	37.18	37.65		40.24		44.18	
1987	45.72		45.57		42.23		44.76		46.18		45.80	
1988	47.35		45.74		43.98		43.60		47.95		47.63	
1989	48.30		49.19		42.80		41.62		47.76		47.47	
1990	49.01		49.46		44.92		43.92		45.78			49.30
1991	49.46	50.42			45.40		43.08		45.74		47.16	
1992	49.93			48.96	44.27		45.34		49.83		49.00	
1993	48.85		51.87	46.64	46.74		41.86	42.20	43.95		46.59	

Table 6. Historical Ground Water Level Data-Punkin Center Well

Average of Monthly Depth to Water Measurements

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1954								-7.70			-6.50	-6.10
1955	-5.10	-6.40	-4.85	-6.30	-5.74	-5.82	-7.60	-5.95		-6.88	-5.50	
1956	-6.19	-5.85	-5.85	-6.05	-5.96	-8.63				-7.60		-6.80
1957	-6.50	-6.10	-6.77	-6.49	-6.76		-8.30	-7.80	-7.50			-7.20
1958	-6.51	-6.58		-6.43		-9.07	-9.87	-8.52	-8.62	-8.19	-7.94	-7.04
1959		-6.16	-6.24	-5.75	-5.71	-7.40	-6.35	-5.15	-5.87	-6.73	-6.33	-5.88
1960		-5.54	-5.50	-5.72	-4.72	-5.50	-4.83	-4.87	-4.13	-5.64		-5.45
1961	-5.20	-5.35	-4.74	-4.15				-3.98	-5.40	-5.95	-5.40	-5.25
1962	-5.10	-5.33	-5.15	-5.80	-7.33	-8.33	-7.71	-7.72	-7.13		-7.12	-6.62
1963	-6.01		-5.81	-5.41	-6.23	-9.03	-7.73	-8.23	-7.78	-7.23	-7.72	-7.52
1964	-6.55		-6.00	-5.72	-4.68	-7.63	-6.73	-5.58	-6.25	-6.97	-6.71	-6.57
1965	-6.68	-5.81		-6.00	-7.06	-7.73	-7.86	-8.73	-8.99	-7.40		-6.73
1966	-6.05	-6.00		-5.43	-6.22	-5.15	-4.59		-5.05	-5.22	-5.47	-6.98
1967	-5.29	-4.99	-6.07	-5.65	-6.21	-7.75	-8.07	-7.67	-8.03	-8.53		-7.35
1968	-6.79		-6.45	-5.81	-6.40	-6.05	-5.52	-5.84	-8.00	-7.52	-7.12	-6.87
1969			-6.31					-7.21	-8.52		-8.30	
1970		-6.88	-6.92	-5.96	-6.51		-8.42	-7.11	-7.62	-7.47		
1971		-6.05	-6.96		-7.01		-8.45		-8.04			
1972			-7.02						-8.24			
1973			-6.26						-7.12			
1974		-4.96							-5.95	-8.27		-8.27
1975	-6.15		-6.05	-10.47	-6.83	-7.60	-4.88	-6.88	-11.18	6.65	-7.35	-6.92
1976			-5.72						-7.33			
1977			-6.58		-4.69		-2.80		-5.51		-5.48	
1978	-4.51		-6.31		-4.70		-5.94		-8.77		-8.04	
1979	-7.87		-6.42		-6.48		-5.74			-5.69	-5.46	
1980	-5.74		-5.61		-5.58		-5.01	-6.81	-6.86		-7.89	-5.54
1981	-6.35		-5.74		-6.34		-6.15		-6.28		-6.21	
1982			-6.58		-6.79		-6.20		-8.14		-4.50	
1983	-7.64		-7.74		-7.39		-7.44		-8.60		-8.27	
1984	-7.15		-6.48		-6.70		-6.65		-7.72		-7.61	
1985	-6.87		-6.68		-6.43		-5.36		-6.86		-6.57	
1986			-6.94		-7.17		-6.49		-8.37		-7.42	
1987	-6.47		-6.57		-5.93		-6.01		-4.84		-4.87	
1988	-4.98		-4.97		-5.66				-4.72		-4.67	
1989			-5.10		-6.17		-5.15		-5.80			
1990	-5.47		-5.45		-5.02				-5.62			-4.73
1991	-4.73	-4.52			-4.80		-3.63		-4.21		-5.02	
1992	-4.92			-4.64	-4.72		-3.25		-3.10		-3.31	
1993	-3.02		-3.92		-4.75		-3.27		-6.36	-4.60	-4.40	-6.00

Table 7. Canal Seepage Losses in Big Wood River-Silver Creek Area

Canal Reach (Miles)	Length of Reach (miles)	Loss (CFD)*
Dist. 45 canal from head gates to Hwy. 93	1.20	3.35
East leg of Dist. 45 canal	1.60	2.88
Central leg of Dist. 45 -upper reach	2.90	4.03
Central leg of Dist. 45 -lower reach	1.80	0.78
West leg of Dist. 45	3.40	1.18
Baseline Canal	0.50	4.22
Bypass Canal-headgates to Baseline canal division	2.90	3.89
Glendale canal-lower reach	0.50	0.68
Iden canal	0.80	5.41

D)*= Cubic feet per square foot of canal area per day

(From Brockway and Grover 1978)

Table 8. Summary of Stream Flow Data in Big Wood River-Silver Creek Area

Stream	Average Monthly Discharge (cfs) for Year 1993-94											
	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April
Brock Creek	8.50	7.55	5.10	3.56	1.38	2.24	1.80	0.30	0.20	0.20	0.20	0.10
Spring Creek	7.35	7.90	8.00	8.70	8.20	7.60	7.65	6.90	6.50	5.87	5.66	5.80
Willow Creek at Mout	33.01	38.38	38.72	45.75	43.29	47.54	42.22	36.54	24.88	24.11	30.25	28.25
Crystal Creek	13.50	16.54	15.40	20.80	14.50	21.60	17.25	16.15	12.50	11.90	11.50	13.00
Willow Creek at Rest	2.20	3.99	5.85	7.30	6.90	8.22	8.22	6.70	5.15	5.04	3.17	4.45
Buhler Drain	1.37	3.80	5.46	6.50	6.82	6.75	6.40	4.90	3.35	3.20	3.80	3.18
Patton Creek	2.80	6.30	10.94	12.43	11.84	11.10	10.45	8.40	5.40	5.08	6.10	5.50
Cain Creek	2.85	3.50	5.25	6.20	6.65	6.65	5.80	4.50	3.25	3.29	3.78	3.50
Channey Creek	12.95	14.25	14.85	15.50	15.70	16.00	16.21	15.50	14.80	14.29	14.29	14.29
Mud Creek	5.07	5.15	5.10	5.20	5.25	5.30	5.28	5.31	5.10	5.36	5.45	5.21
Wilson Creek	10.68	11.63	11.75	11.70	11.55	11.90	11.72	11.45	10.60	10.53	10.75	10.50
Grove Creek	43.21	52.11	60.20	56.64	56.12	56.12	53.40	45.25	47.22	48.40	45.57	42.40
Loving Creek	36.25	48.75	51.18	58.00	54.98	53.26	46.88	37.46	31.25	31.27	32.00	32.15
Silver Creek At Swans	94.26	133.83	117.84	146.09	164.43	186.81	166.25	157.80	138.00	159.60	160.15	123.34
Silver Creek at Priest	67.54	118.90	94.20	110.75	117.20	165.15	165.18	152.00	132.45	145.65	158.11	86.90

Table 9. Pumpage from Irrigation Wells for 1993

Range	L. Name	Owner	Discharge (cfs)	Period (Days)	Volume Pumped (af)
20E	9ADA	B Bar B	7.00	50.00	694.40
20E	9AAD	B Bar B	1.75	60.00	208.32
20E	20BBC	Purdy	9.00	35.00	624.96
20E	20DCD1	Purdy	5.50	40.00	436.48
20E	30BAA	Purdy	7.50	10.00	148.80
20E	30BAB	Purdy	2.75	40.00	218.24
20E	30BAC	Purdy	6.50	35.00	451.36
19E	26BDD2	Gardner	1.75	60.00	208.32
19E	26BDD1	Gardner	3.00	60.00	357.12
19E	22CCD1	Gardner	2.00	60.00	238.08
19E	26AAC1	Gardner	0.75	60.00	89.28
19E	33DBB1	Gardner	3.00	60.00	357.12
19E	28CCB1	Gardner	5.50	60.00	654.72
19E	3AAA	Gardner	5.00	60.00	595.20
19E	16CAD2	Gardner	3.00	60.00	357.12
19E	25ACC1	Molyneux	3.00	80.00	476.16
19E	19BDA1	Molyneux	3.50	80.00	555.52
19E	19BBB	Molyneux	0.50	90.00	89.28
19E	12BAC1	Molyneux	3.00	90.00	535.68
19E	12ABA	Molyneux	1.00	90.00	178.56
19E	36BAC	Molyneux	5.50	75.00	818.40
19E	18DCB1	Castle	1.00	90.00	178.56
19E	24BAA1	Larry	3.00	100.00	595.20
19E	13CAA	McMahan	6.00	90.00	1071.36
19E	14BCC	McMahan	4.00	90.00	714.24
19E	11BBB1	Byington	0.50	90.00	89.28
19E	10AAB1	Byington	4.00	90.00	714.24
19E	2CCA1	Bashaw	3.50	90.00	624.96
19E	2CBC1	Bashaw	3.50	90.00	624.96
19E	3DAB1	Bashaw	4.00	90.00	714.24
19E	3CAA	Bashaw	3.50	90.00	624.96
19E	14CBB1	Larkin	4.00	30.00	238.08
19E	14ABD	Delissar	4.00	3.00	23.81
19E	3BAA1	Delissar	1.25	90.00	223.20
19E	10BDA	Rhea	4.00	90.00	714.24
19E	3CCB2	Rhea	3.50	90.00	624.96
19E	3DDC	Rhea	4.00	90.00	714.24
19E	4BCC1	Walton	4.00	90.00	714.24
19E	4BCC2	Walton	8.00	90.00	1428.48
19E	CAD2	Sherbine	5.50	10.00	109.12
19E	6AAC	Sherbine	4.00	90.00	714.24
19E	5ADC1	Sherbine	5.00	20.00	198.40
19E	4BBA	Nisson	3.00	90.00	535.68
19E	33AAA	Nisson	2.00	90.00	357.12
19E	8ABA	Schoessler	4.00	90.00	714.24
19E	8CDC	Schoessler	3.00	90.00	535.68

19E	8CDC1	Schoessler	3.00	90.00	535.68
19E	6ADD1	Drussel	2.00	100.00	396.80
19E	8CCC	Chaumell	0.75	100.00	148.80
19E	20BBC1	Struthers	7.00	45.00	624.96
19E	20BBC2	Struthers	7.00	45.00	624.96
19E	20BBC3	Struthers	7.00	45.00	624.96
19E	32CBA1	Stevenson	5.00	75.00	744.00
19E	32CBA2	Stevenson	5.50	75.00	818.40
19E	29BAA	Stevenson	4.00	90.00	714.24
19E	30AAB	Stevenson	2.00	90.00	357.12
19E	19CCB	Stevenson	4.50	75.00	669.60
18E	10BBC1	Sheldon	2.00	60.00	238.08
18E	10BBC2	Sheldon	1.00	60.00	119.04
18E	27AAA1	Farrington	1.75	0.00	0.00
18E	25AAB2	Eakin	2.50	90.00	446.40
18E	24CCC	Walker	1.75	90.00	312.48
18E	24CBC	Walker	1.75	180.00	624.96
18E	14DDB1	Web Nursery	1.50	150.00	446.40
18E	13ABB1	Lee	1.50	90.00	267.84
18E	12DBD1	Lee	1.25	90.00	223.20
18E	35DBD1	Lee	4.00	90.00	714.24
18E	2DAB1	Lee	2.00	90.00	357.12
18E	34ADA	Lee	0.75	90.00	133.92
18E	2DDA2	Lee	2.00	90.00	357.12
18E	6BBA	Lee	2.00	90.00	357.12
18E	36ADC1	Bellevue City	1.50	80.00	238.08
18E	26CBB1	Forstman	1.00	75.00	148.80
18E	22DDB1	Eccles	1.00	90.00	178.56
18E	23DCC1	Eccles	1.50	90.00	267.84
19E	7CDB1	Polo Club	4.50	90.00	803.52
19E	18ADA1	Cove Ranch	6.50	90.00	1160.64
19E	20BAA1	Cove Ranch	6.50	90.00	1160.64
19E	28BCD	Cove Ranch	5.50	90.00	982.08
19E	01DAA	W.R Irrig		0.00	0.00
19E	28BBB1	Dudley	4.18	75.00	621.98
				Total	38510.43

Preliminary data, subject to revision

Table10. Pumpage form Artesian Wells for 1993

TN	RN	L.Name	Owner	Discharge (cfs)	Period (days)	Volume Pumped (af)
1S	19E	16CCD2	Bickett	2.46	21	102
1S	19E	16BCC1	Bickett	1.76	21	73
1S	19E	17DAC1	Bickett	2.85	21	119
1S	19E	16CAD	Bickett	2.50	21	104
1S	19E	17DAA	Bickett	2.46	21	102
1S	19E	22AAB	Stinson	2.24	21	93
1S	19E	22BBB1	Stinson	4.00	21	167
1S	19E	22CAA1	Stinson	1.06	21	44
1S	19E	13ACB	H.Fishery	0.06	365	43
1S	19E	13ACB2	H.Fishery	2.67	365	1934
1S	19E	13ACB3	H.Fishery	1.78	365	1289
1S	19E	13ABC4	H.Fishery	1.00	365	724
1S	19E	20ABB1	H.Fishery	0.90	365	652
1S	19E	20BAB1	H.Fishery	4.50	365	3259
1S	19E	18BAC	Kray	0.50	10	10
1S	18E	18CAB1	Smith	1.00	35	69
1S	18E	13AAA	Smith	2.00	35	139
1S	18E	13DAA	Smith	2.00	35	139
1S	18E	13CCC1	Eidth	1.50	100	298
1S	18E	23BAB1	Davis	0.25	90	45
1S	18E	14AAB1	Sturat	2.75	180	982
1S	18E	13CAA1	Sturat	0.18	180	64
1S	18E	13BAA1	Sturat	0.50	180	179
1S	18E	12BBB1	Sturat	0.20	180	71
1S	18E	2DDA2	Lee	1.50	75	223
1S	18E	2DAB1	Lee	2.00	75	298
1S	18E	34CAA	Lee	8.00	75	1190
1S	18E	15DDD	Akeyson	1.10	25	55
1S	18E	13ACA	Akeyson	0.75	250	372
1S	18E	13DDB1	Ivie	0.65	130	168
				Total		13007

Table 11. Ground Water Recharge Pit Data for Year 1993

it No	Location	Owner	Flow (cfs)	uration (days)	Period	Recharge (af)
1	1N-19E-19CCD	Stevenson	5.00	63.00	from 20 th September	625.00
2	1N-19E-20CCD	Struthers	5.00	49.00	from 20 th September	486.00
3	1N-19E-13CAC	Stevenson	6.00	14.00	1st to 15th September	167.00
4	1N-19E-32CCD	Stevenson	9.00	7.00	from 30th September	125.00
5	1N-19E-30CDB .	S. Foundatio	0.00	0.00	None	0.00
					Total	1400.00

Table 12. Snow Course Data for Big Wood River- Silver Creek Area for 1993

Site	Date	Aveg. Snow Depth (Inches)	Water Content (Inches)	Snow Density (%)
Baseline RD.	12/21/93	5.90	0.92	16.00
	1/15/94	8.50	1.60	19.00
	1/31/94	8.50	1.80	21.00
	2/15/94	13.80	2.70	20.00
	3/3/94	7.90	2.80	36.00
Gannett RD.	12/21/93	6.60	1.70	26.00
	1/15/94	9.30	2.00	21.00
	1/31/94	8.90	2.30	26.00
	2/15/94	14.30	3.50	25.00
	3/3/94	7.30	1.90	26.00
Manager's House	12/21/93	2.40	0.20	9.00
	1/15/94	5.10	1.00	20.00
	1/31/94	3.90	0.80	21.00
	2/15/94	9.40	1.40	14.00
	3/3/94	0.00	0.00	0.00
Picabo	12/21/93	0.00	0.00	0.00
	1/15/94	2.00	0.20	11.00
	1/31/94	0.00	0.00	0.00
	2/15/94	2.80	0.50	18.00
	3/3/94	0.00	0.00	0.00
	Total		0.70	

Table 13. Monthly Precipitation Data for Big Wood River-Silver Creek Area

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	nnual
1958	-	-	-	-	2.09	0.82	0.00	0.00	0.12	0.00	1.35	0.61	-
1959	-	-	0.00	0.00	-	-	-	-	-	-	-	-	-
1960	1.22	1.82	1.66	0.90	0.07	0.34	0.00	0.73	0.00	0.90	2.36	0.27	10.27
1961	0.34	0.90	0.62	0.63	0.80	0.63	0.33	0.19	2.00	1.08	0.70	1.06	9.28
1962	1.00	2.75	1.71	0.61	3.83	0.66	0.54	0.47	0.35	0.66	0.81	0.83	14.22
1963	0.78	3.05	0.53	2.56	1.53	3.45	0.00	0.58	1.11	0.45	2.53	0.66	17.23
1964	1.96	0.00	1.88	0.87	1.28	1.99	0.09	0.12	0.03	0.56	2.24	7.96	18.98
1965	1.62	0.18	0.25	1.87	1.83	1.07	0.10	2.16	0.44	0.00	1.58	1.21	12.31
1966	1.38	0.17	1.11	0.59	0.59	0.11	0.11	0.00	0.22	0.54	1.36	1.90	8.08
1967	4.07	0.23	1.06	0.79	0.36	4.20	0.22	0.00	0.08	1.20	2.02	0.90	15.13
1968	1.00	1.01	0.68	0.26	1.47	3.59	0.00	3.48	0.43	0.22	1.52	3.25	16.91
1969	6.63	1.68	0.19	0.29	0.11	1.77	0.22	0.00	1.43	0.16	0.45	2.04	14.97
1970	3.32	0.55	1.46	0.86	0.89	2.35	0.26	0.30	1.24	1.10	3.26	4.03	19.62
1971	3.31	0.57	1.75	1.05	0.62	1.52	0.21	0.31	0.56	0.90	1.68	2.62	15.10
1972	2.35	0.75	0.93	0.80	0.84	0.90	0.00	0.38	1.53	1.11	1.53	1.46	12.58
1973	1.57	1.01	1.03	0.49	0.46	0.28	0.71	0.51	0.34	0.43	3.78	2.00	12.61
1974	2.14	0.58	2.32	0.31	0.11	0.00	0.21	0.08	0.00	1.31	0.41	1.28	8.75
1975	1.34	3.17	2.87	1.69	1.07	0.67	0.25	0.41	0.03	1.73	0.95	0.98	15.16
1976	1.69	2.06	1.13	1.77	0.62	0.48	0.05	1.19	1.21	0.55	0.00	0.10	10.85
1977	1.10	0.52	0.48	0.10	2.09	0.64	0.80	0.14	0.57	0.35	1.33	3.11	11.23
1978	2.10	1.86	0.88	2.15	0.65	0.55	0.35	0.30	1.82	0.01	0.72	0.60	11.99
1979	1.32	1.38	1.05	0.50	1.15	0.59	0.35	1.03	0.14	1.51	0.82	0.73	10.57
1980	3.57	1.55	0.45	0.72	3.15	0.76	0.61	0.65	1.62	0.35	0.83	2.01	16.27
1981	0.85	0.88	1.08	1.76	0.83	0.59	0.06	0.05	0.00	1.52	2.55	2.60	12.77
1982	1.72	1.54	1.21	1.29	1.18	0.85	1.38	0.10	1.70	1.17	1.95	3.50	17.59
1983	0.41	2.62	2.79	0.75	0.89	1.78	0.65	1.44	0.83	0.77	3.98	3.15	20.06
1985	0.60	2.38	0.92	0.10	0.96	0.10	2.32	0.00	1.80	0.75	0.93	1.97	12.83
1986	1.62	4.55	1.36	0.67	1.75	0.75	0.25	0.33	1.42	0.44	0.15	0.22	13.51
1987	1.08	0.50	1.12	0.00	2.69	0.71	1.42	0.15	0.00	0.20	1.32	1.02	10.21
1988	0.91	0.25	0.50	1.11	1.65	0.05	0.00	0.00	0.30	0.00	5.61	1.80	12.18
1989	1.40	0.50	1.56	0.21	1.22	0.15	0.15	0.53	0.80	2.09	0.58	0.00	9.19
1990	1.85	1.40	0.56	1.62	1.62	1.25	0.05	0.53	0.15	0.30	0.80	0.75	10.88
1991	0.00	0.09	2.63	1.25	2.57	0.70	0.33	0.22	1.41	1.80	1.28	0.12	12.40
1992	0.20	1.14	0.17	0.52	0.00	1.12	0.00	0.05	0.73	1.20	0.60	1.67	7.40
1993	2.11	1.58	2.00	1.10	0.95	2.70	2.65	0.42	0.65	1.75	0.05	0.40	16.36
1994	0.65	-	-	-	-	-	-	-	-	-	-	-	-
avg	1.71	1.31	1.21	0.91	1.21	1.13	0.44	0.51	0.76	0.82	1.54	1.70	13.26

Table 14. Crop and Irrigation Distribution in Big Wood River-Silver Creek Area

Crop	Acreage	Percent of Total Area in 1993	Percent of Total Area in 1975
Surface Irrigated	13269	47	44
Ground water Irrigated	15178	53	56
Sprinkler Irrigated	21223	74	13
Gravity Irrigated	5865	21	80
Sub-irrigated	1446	5	7
Wheat	413	1	3
Barley	10571	30	22
Oats	559	2	2
Alfalfa	6824	20	31
Pasture	15006	42	41
Canola	248	1	
Potatoes	1372	4	1

Table 15. Comparison of Ground Water Levels

Well	Measurement Date	Depth to Water (ft)	Rise/Fall (ft)
2N-18E-22BAA1	5/23/75	18.40	
	5/21/93	18.22	0.18
2N-18E-23DCC1	4/9/86	34.14	
	4/14/93	35.73	-0.54
2N-18E-36CDA1	4/28/75	36.27	
	4/21/94	38.00	-1.73
1N-18E-25AAB2	4/28/75	78.05	
	4/22/93	83.03	-4.98
1N-18E-13ACA1	8/11/70	38.66	
	8/16/93	36.80	1.86
1N-19E-28DAA1	5/19/70	74.85	
	4/27/94	73.75	1.10
1S-19E-11ADA1	5/13/91	5.26	
	4/13/93	5.13	0.13
1S-19E-14CBB1	4/27/76	3.10	
	4/13/93	4.37	-1.27
1S-19E-14DDD1	4/27/76	4.48	
	4/20/94	6.00	-1.52
1S-19E-15DDD2	4/27/76	3.86	
	4/20/94	4.50	-0.64
1S-19E-24BAA1	4/24/78	10.90	
	4/20/94	10.75	0.15
1S-19E-25ACC	4/27/76	29.13	
	4/29/93	31.00	-1.87
1S-19E-26BDD1	5/5/70	36.18	
	5/5/93	37.40	-1.22
1S-19E-16BCC*	6/20/76	-18.62	
	8/19/93	-15.80	-2.82
1S-19E-20ABB1*	5/26/76	-22.47	
	4/21/94	-16.21	-6.26
1S-19E-20BAB*	4/27/70	-20.60	
	4/18/94	-17.50	-3.10
1S-19E-22BBB1*	5/26/76	-9.30	
	5/28/93	-3.90	-5.40
1S-19E-22CCD1*	4/27/76	-22.48	
	4/18/94	-21.40	-1.08

* Artesian Wells

Appendix A

Daily Depth to Water Measurements for Punkin Center Artesian Well and USGS Observation Well

Daily Depth to Water Measurements of Punkin Center and USGS Wells					
Site ID	1S 19E 22AAA1	Latitude	431950	Longitude	1140000000
Year	Month	Day	DATE	Depth	Status Code
1954	8	11	Aug-54	-7.70	M
1954	11	26	Nov-54	-6.50	M
1954	12	13	Dec-54	-6.10	M
1955	1	10	Jan-55	-5.10	M
1955	2	7	Feb-55	-6.40	M
1955	3	8	Mar-55	-4.85	M
1955	4	4	Apr-55	-6.30	M
1955	5	2		-5.74	S
1955	6	1	May-55	-5.82	S
1955	7	1	Jun-55	-7.70	S
1955	7	25	Jul-55	-7.50	S
1955	8	17	Jul-55	-5.95	S
1955	10	4	Aug-55	-6.88	M
1955	11	10	Oct-55	-4.50	M
1955	11	30	Nov-55	-6.60	S
1956	1	3	Nov-55	-6.10	S
1956	1	9	Jan-56	-6.28	S
1956	2	6	Jan-56	-5.85	S
1956	3	9	Feb-56	-5.85	S
1956	4	2	Mar-56	-6.20	S
1956	4	30	Apr-56	-5.90	S
1956	5	30	Apr-56	-5.96	S
1956	6	28	May-56	-8.63	S
1956	10	16	Jun-56	-7.60	M
1956	12	12	Oct-56	-6.80	S
1957	1	11	Dec-56	-6.50	S
1957	2	9	Jan-57	-6.10	S
1957	3	4	Feb-57	-6.77	S
1957	4	7	Mar-57	-6.49	S
1957	5	1	Apr-57	-6.16	S
1957	5	23	May-57	-7.36	S
1957	7	20	May-57	-8.30	M
1957	8	15	Jul-57	-7.80	S
1957	9	19	Aug-57	-7.50	S
1957	12	11	Sep-57	-7.20	M
1958	1	29	Dec-57	-6.51	S
1958	2	27	Jan-58	-6.58	S
1958	4	7	Feb-58	-6.79	S
1958	4	25	Apr-58	-6.08	S
1958	6	27	Apr-58	-9.07	M
1958	7	25	Jun-58	-9.87	M

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1958	8	28	Jul-58	-8.52	S
1958	9	27	Aug-58	-8.62	S
1958	10	30	Sep-58	-8.19	S
1958	11	26	Oct-58	-7.94	S
1958	12	30	Nov-58	-7.04	S
1959	2	26	Dec-58	-6.16	S
1959	3	26	Feb-59	-6.24	S
1959	4	25	Mar-59	-5.75	S
1959	5	28	Apr-59	-5.71	S
1959	6	25	May-59	-7.40	S
1959	7	28	Jun-59	-6.35	S
1959	8	27	Jul-59	-5.15	S
1959	9	25	Aug-59	-5.87	S
1959	10	26	Sep-59	-6.73	S
1959	11	24	Oct-59	-6.33	S
1959	12	18	Nov-59	-5.88	S
1960	2	1	Dec-59	-5.56	S
1960	2	26	Feb-60	-5.52	S
1960	3	24	Feb-60	-5.50	S
1960	4	28	Mar-60	-5.72	S
1960	5	27	Apr-60	-4.72	S
1960	6	23	May-60	-5.50	S
1960	7	29	Jun-60	-4.83	S
1960	8	23	Jul-60	-4.87	S
1960	9	23	Aug-60	-4.13	S
1960	10	27	Sep-60	-5.64	S
1960	12	16	Oct-60	-5.45	S
1961	1	29	Dec-60	-5.20	S
1961	2	25	Jan-61	-5.35	S
1961	3	27	Feb-61	-4.74	S
1961	4	22	Mar-61	-4.15	S
1961	8	25	Apr-61	-3.98	S
1961	9	23	Aug-61	-5.40	S
1961	10	22	Sep-61	-5.95	S
1961	11	19	Oct-61	-5.40	S
1961	12	19	Nov-61	-5.25	S
1962	1	24	Dec-61	-5.10	S
1962	2	19	Jan-62	-5.33	S
1962	3	17	Feb-62	-5.15	S
1962	4	17	Mar-62	-5.80	S
1962	5	29	Apr-62	-7.33	S
1962	6	24	May-62	-8.33	M
1962	7	24	Jun-62	-7.71	M
1962	8	26	Jul-62	-7.72	M
1962	9	19	Aug-62	-7.13	M
1962	11	20	Sep-62	-7.12	M
1962	12	16	Nov-62	-6.62	M

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1963	1	15	Dec-62	-6.01	M
1963	3	3	Jan-63	-5.92	M
1963	3	30	Mar-63	-5.71	M
1963	4	28	Mar-63	-5.41	M
1963	5	28	Apr-63	-6.23	M
1963	6	23	May-63	-9.03	M
1963	7	21	Jun-63	-7.73	M
1963	8	20	Jul-63	-8.23	M
1963	9	20	Aug-63	-7.78	M
1963	10	21	Sep-63	-7.23	M
1963	11	20	Oct-63	-7.72	M
1963	12	22	Nov-63	-7.52	M
1964	1	24	Dec-63	-6.55	S
1964	3	1	Jan-64	-6.25	S
1964	3	27	Mar-64	-5.90	S
1964	4	27	Mar-64	-5.72	M
1964	5	26	Apr-64	-4.68	M
1964	6	21	May-64	-7.63	M
1964	7	19	Jun-64	-6.73	M
1964	8	16	Jul-64	-5.58	M
1964	9	19	Aug-64	-6.25	S
1964	10	23	Sep-64	-6.97	S
1964	11	24	Oct-64	-6.71	M
1964	12	20	Nov-64	-6.57	S
1965	1	19	Dec-64	-6.68	S
1965	2	28	Jan-65	-5.81	M
1965	4	3	Feb-65	-6.11	M
1965	4	26	Apr-65	-5.90	M
1965	5	25	Apr-65	-7.06	M
1965	6	19	May-65	-7.73	M
1965	7	19	Jun-65	-7.86	M
1965	8	14	Jul-65	-8.73	M
1965	9	18	Aug-65	-8.99	M
1965	10	23	Sep-65	-7.40	M
1965	12	18	Oct-65	-6.73	M
1966	1	18	Dec-65	-6.05	S
1966	2	28	Jan-66	-6.00	S
1966	4	23	Feb-66	-5.43	M
1966	5	24	Apr-66	-6.22	S
1966	6	18	May-66	-5.15	S
1966	7	18	Jun-66	-4.59	S
1966	9	17	Jul-66	-5.05	S
1966	10	27	Sep-66	-5.22	S
1966	11	20	Oct-66	-5.47	S
1966	12	17	Nov-66	-6.98	S
1967	1	16	Dec-66	-5.29	S
1967	2	24	Jan-67	-4.99	S

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1967	3	25	Feb-67	-6.07	S
1967	4	22	Mar-67	-5.65	S
1967	5	31	Apr-67	-6.21	S
1967	6	19	May-67	-7.75	M
1967	7	15	Jun-67	-8.07	M
1967	8	11	Jul-67	-7.67	M
1967	9	21	Aug-67	-8.03	M
1967	10	20	Sep-67	-8.53	M
1967	12	17	Oct-67	-7.35	S
1968	1	16	Dec-67	-6.79	S
1968	3	1	Jan-68	-6.85	S
1968	3	29	Mar-68	-6.12	S
1968	4	26	Mar-68	-5.81	S
1968	5	27	Apr-68	-6.40	S
1968	6	21	May-68	-6.05	S
1968	7	20	Jun-68	-5.52	S
1968	8	15	Jul-68	-5.84	S
1968	9	19	Aug-68	-8.00	S
1968	10	17	Sep-68	-7.52	M
1968	11	19	Oct-68	-7.12	M
1968	12	17	Nov-68	-6.87	M
1969	3	27	Dec-68	-6.31	S
1969	8	21	Mar-69	-7.21	S
1969	9	26	Aug-69	-8.52	M
1969	11	21	Sep-69	-8.30	M
1970	2	6	Nov-69	-6.88	M
1970	3	28	Feb-70	-6.92	M
1970	4	28	Mar-70	-5.96	M
1970	5	26	Apr-70	-6.51	M
1970	7	29	May-70	-8.42	M
1970	8	12	Jul-70	-7.11	M
1970	9	26	Aug-70	-7.62	M
1970	11	20	Sep-70	-7.47	M
1971	2	5	Nov-70	-6.05	M
1971	3	27	Feb-71	-6.96	M
1971	5	24	Mar-71	-7.01	M
1971	7	26	May-71	-8.45	M
1971	9	21	Jul-71	-8.04	M
1972	3	24	Sep-71	-7.02	M
1972	9	19	Mar-72	-8.24	M
1973	3	15	Sep-72	-6.26	M
1973	9	17	Mar-73	-7.12	M
1974	2	28	Sep-73	-4.96	M
1974	9	18	Feb-74	-5.95	M
1974	10	23	Sep-74	-8.27	M
1974	12	20	Oct-74	-8.27	M
1975	1	22	Dec-74	-6.15	M

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1975	3	13	Jan-75	-6.16	M
1975	3	24	Mar-75	-5.97	M
1975	4	28	Mar-75	-10.47	M
1975	5	22	Apr-75	-6.83	M
1975	6	19	May-75	-7.60	M
1975	7	22	Jun-75	-4.88	M
1975	8	25	Jul-75	-6.88	M
1975	9	22	Aug-75	-11.18	M
1975	10	1	Sep-75	-7.52	M
1975	10	29	Oct-75	-5.79	M
1975	11	20	Oct-75	-7.35	M
1975	12	18	Nov-75	-6.92	M
1976	3	25	Dec-75	-5.72	EM
1976	9	27	Mar-76	-7.33	M
1977	3	12	Sep-76	-6.58	EM
1977	5	20	Mar-77	-4.69	EM
1977	7	17	May-77	-2.80	S
1977	9	18	Jul-77	-5.51	M
1977	11	18	Sep-77	-5.48	EM
1978	1	28	Nov-77	-4.51	EM
1978	3	30	Jan-78	-6.31	EM
1978	5	21	Mar-78	-4.70	M
1978	7	13	May-78	-5.94	EM
1978	9	21	Jul-78	-8.77	M
1978	11	14	Sep-78	-8.04	M
1979	1	24	Nov-78	-7.87	EM
1979	3	15	Jan-79	-6.42	M
1979	5	15	Mar-79	-6.48	EM
1979	7	24	May-79	-5.74	EM
1979	10	2	Jul-79	-5.69	M
1979	11	19	Oct-79	-5.46	M
1980	1	16	Nov-79	-5.74	ES
1980	3	25	Jan-80	-5.61	EM
1980	5	17	Mar-80	-5.58	ES
1980	7	9	May-80	-5.01	EM
1980	8	10	Jul-80	-6.81	EM
1980	9	11	Aug-80	-6.86	EM
1980	11	1	Sep-80	-7.89	EM
1980	12	16	Nov-80	-5.54	EM
1981	1	28	Dec-80	-6.35	EM
1981	3	25	Jan-81	-5.74	EM
1981	5	19	Mar-81	-6.34	EM
1981	7	20	May-81	-6.15	ES
1981	9	16	Jul-81	-6.28	ES
1981	11	17	Sep-81	-6.21	EM
1982	3	23	Nov-81	-6.58	ES
1982	5	18	Mar-82	-6.79	ES

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1982	7	20	May-82	-6.20	ES
1982	9	21	Jul-82	-8.14	EM
1982	11	16	Sep-82	-4.50	EM
1983	1	18	Nov-82	-7.64	EM
1983	3	14	Jan-83	-7.74	EM
1983	5	11	Mar-83	-7.39	EM
1983	7	19	May-83	-7.44	EM
1983	9	13	Jul-83	-8.60	EM
1983	11	18	Sep-83	-8.27	EM
1984	1	10	Nov-83	-7.15	ES
1984	3	13	Jan-84	-6.48	ES
1984	5	8	Mar-84	-6.70	ES
1984	7	24	May-84	-6.65	ES
1984	9	17	Jul-84	-7.72	ES
1984	11	27	Sep-84	-7.61	ES
1985	1	9	Nov-84	-6.87	ES
1985	3	26	Jan-85	-6.68	EM
1985	5	20	Mar-85	-6.43	S
1985	7	22	May-85	-5.36	S
1985	9	16	Jul-85	-6.86	EM
1985	11	15	Sep-85	-6.57	ES
1986	3	19	Nov-85	-6.94	ES
1986	5	16	Mar-86	-7.17	ES
1986	7	22	May-86	-6.49	EM
1986	9	16	Jul-86	-8.37	ES
1986	11	20	Sep-86	-7.42	ES
1987	1	12	Nov-86	-6.47	ES
1987	3	25	Jan-87	-6.57	ES
1987	5	12	Mar-87	-5.93	ES
1987	7	22	May-87	-6.01	S
1987	9	24	Jul-87	-4.84	S
1987	11	18	Sep-87	-4.87	ES
1988	1	5	Nov-87	-4.98	ES
1988	3	31	Jan-88	-4.97	ES
1988	5	12	Mar-88	-5.66	S
1988	9	20	May-88	-4.72	S
1988	11	18	Sep-88	-4.67	EM
1989	3	17	Nov-88	-5.10	ES
1989	5	12	Mar-89	-6.17	S
1989	7	18	May-89	-5.15	ES
1989	9	14	Jul-89	-5.80	S
1990	1	10	Sep-89	-5.47	ES
1990	3	23	Jan-90	-5.45	ES
1990	5	22	Mar-90	-5.02	S
1990	9	6	May-90	-5.62	S
1990	12	12	Sep-90	-4.73	ES
1991	1	22	Dec-90	-4.73	ES

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1991	2	27	Jan-91	-4.52	ES
1991	5	17	Feb-91	-4.72	EZ
1991	5	30	May-91	-4.92	S
1991	7	11	May-91	-3.63	S
1991	9	4	Jul-91	-4.11	S
1991	9	26	Sep-91	-4.37	S
1991	11	20	Sep-91	-5.02	S
1992	1	7	Nov-91	-4.92	S
1992	4	2	Jan-92	-4.64	S
1992	5	14	Apr-92	-4.72	S
1992	7	15	May-92	-3.25	S
1992	9	16	Jul-92	-3.10	S
1992	11	23	Sep-92	-3.31	S
1993	1	21	Nov-92	-3.02	S
1993	3	23	Jan-93	-3.92	S
1993	5	10	Mar-93	-4.75	S
1993	7	20	May-93	-3.27	SS
1993	9	14	Jul-93	-6.36	S
1993	9	15	Sep-93		N
1993	2	4	Sep-93	-4.60	U OF I
1993	8	3	Oct-93	-4.40	U OF I
1993	12	16	Nov-93	-6.00	U OF I
			Dec-93		
USGS Observation Well (1N 18E 1daa1) South of Bellevue					
Latitude	432657	Longitude	114144801	Altitude	5136.59
				Depth to	S. Code
Year	Month	Day	Date	Water	
1954	7	22	Jul-54	38.74	
1954	7	25	Jul-54	39.28	
1954	7	31	Jul-54	39.69	
1954	8	5	Aug-54	39.97	
1954	8	10	Aug-54	39.72	
1954	8	15	Aug-54	40.17	
1954	8	20	Aug-54	41.10	
1954	8	25	Aug-54	41.87	
1954	8	31	Aug-54	42.60	
1954	9	5	Sep-54	43.10	
1954	9	10	Sep-54	43.68	
1954	9	15	Sep-54	43.93	
1954	9	20	Sep-54	43.35	
1954	9	25	Sep-54	43.32	
1954	9	30	Sep-54	42.37	
1954	10	5	Oct-54	42.78	
1954	10	10	Oct-54	42.94	

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1954	10	15	Oct-54	43.08	
1954	10	20	Oct-54	42.43	
1954	10	25	Oct-54	42.79	
1954	10	28	Oct-54	43.00	
1954	11	10	Nov-54	44.01	
1954	11	15	Nov-54	44.22	
1954	11	17	Nov-54	44.36	
1954	11	23	Nov-54	44.62	
1954	12	5	Dec-54	45.59	
1954	12	10	Dec-54	45.90	
1954	12	15	Dec-54	46.22	
1954	12	17	Dec-54	46.37	
1955	1	10	Jan-55	47.23	
1955	1	12	Jan-55	47.15	
1955	1	28	Jan-55	46.87	
1955	1	31	Jan-55	46.91	
1955	2	5	Feb-55	47.05	
1955	2	10	Feb-55	47.30	
1955	2	15	Feb-55	47.43	
1955	2	20	Feb-55	47.56	
1955	3	8	Mar-55	47.92	
1955	3	10	Mar-55	47.94	
1955	3	15	Mar-55	47.93	
1955	3	20	Mar-55	48.06	
1955	3	25	Mar-55	48.21	
1955	3	31	Mar-55	48.31	
1955	4	4	Apr-55	48.28	
1955	10	4	Oct-55	42.95	
1955	11	10	Nov-55	44.87	
1955	11	30	Nov-55	45.71	
1956	1	3	Jan-56	45.30	
1956	1	9	Jan-56	45.48	
1956	2	6	Feb-56	46.99	
1956	3	9	Mar-56	47.44	
1956	4	2	Apr-56	46.67	
1956	4	30	Apr-56	43.14	
1956	5	30	May-56	36.23	
1956	6	28	Jun-56	34.16	
1956	7	19	Jul-56	34.64	
1956	8	31	Aug-56	40.42	
1956	9	28	Sep-56	41.92	
1956	10	16	Oct-56	42.81	
1956	11	12	Nov-56	44.05	
1956	12	12	Dec-56	45.28	
1957	1	11	Jan-57	46.93	
1957	2	9	Feb-57	47.09	
1957	3	4	Mar-57	47.04	

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1957	4	7	Apr-57	47.08	
1957	5	1	May-57	44.84	
1957	5	23	May-57	43.60	
1957	6	24	Jun-57	33.59	
1957	7	20	Jul-57	35.04	
1957	8	15	Aug-57	39.97	
1957	9	19	Sep-57	40.66	
1957	10	25	Oct-57	43.44	
1957	12	12	Dec-57	45.53	
1958	4	7	Apr-58	47.25	
1958	4	25	Apr-58	45.19	
1958	5	26	May-58	38.99	
1958	6	27	Jun-58	34.12	
1958	7	25	Jul-58	36.59	S
1958	8	27	Aug-58	40.05	S
1958	9	27	Sep-58	41.07	
1958	10	30	Oct-58	42.77	
1958	11	26	Nov-58	43.93	
1958	12	30	Dec-58	46.03	
1959	1	29	Jan-59	46.87	
1959	2	26	Feb-59	47.80	
1959	3	26	Mar-59	48.55	
1959	4	25	Apr-59	45.97	
1959	5	28	May-59	40.95	
1959	6	25	Jun-59	36.84	
1959	7	28	Jul-59	41.62	S
1959	8	27	Aug-59	45.38	S
1959	9	25	Sep-59	44.34	
1959	10	26	Oct-59	44.95	
1959	11	24	Nov-59	46.65	
1959	12	18	Dec-59	48.00	
1960	4	28	Apr-60	45.79	
1960	5	27	May-60	41.61	
1960	6	23	Jun-60	36.68	
1960	7	29	Jul-60	43.87	S
1960	8	23	Aug-60	45.18	
1960	9	23	Sep-60	45.20	
1960	10	27	Oct-60	44.84	
1960	12	16	Dec-60	46.31	
1961	2	25	Feb-61	50.12	
1961	3	27	Mar-61	49.76	
1961	4	22	Apr-61	49.08	
1961	5	20	May-61	46.18	S
1961	6	16	Jun-61	37.39	
1961	7	8	Jul-61	39.78	
1961	8	26	Aug-61	45.87	
1961	9	23	Sep-61	43.14	

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1961	10	22	Oct-61	44.74	
1961	11	19	Nov-61	46.29	
1961	12	19	Dec-61	46.27	
1962	4	17	Apr-62	47.06	
1962	5	29	May-62	36.98	
1962	6	24	Jun-62	34.44	
1962	7	24	Jul-62	36.44	
1962	8	26	Aug-62	41.93	S
1962	9	19	Sep-62	41.14	
1962	10	23	Oct-62	44.44	
1962	11	20	Nov-62	44.72	
1962	12	16	Dec-62	46.45	
1963	1	15	Jan-63	47.60	
1963	3	3	Mar-63	45.93	
1963	3	30	Mar-63	46.15	
1963	4	28	Apr-63	47.34	
1963	5	28	May-63	40.70	
1963	6	23	Jun-63	35.32	
1963	7	21	Jul-63	34.12	
1963	8	20	Aug-63	41.26	S
1963	9	20	Sep-63	41.48	
1963	10	21	Oct-63	43.09	
1963	11	20	Nov-63	44.54	
1963	12	22	Dec-63	45.75	
1964	1	24	Jan-64	46.59	
1964	3	1	Mar-64	46.92	
1964	3	27	Mar-64	47.56	
1964	4	27	Apr-64	45.12	
1964	5	26	May-64	39.85	
1964	6	21	Jun-64	38.22	
1964	7	19	Jul-64	36.70	S
1964	8	16	Aug-64	41.08	S
1964	9	19	Sep-64	41.81	
1964	10	23	Oct-64	43.68	
1964	11	24	Nov-64	45.18	
1964	12	20	Dec-64	46.30	
1965	1	19	Jan-65	45.07	
1965	2	28	Feb-65	46.62	
1965	4	3	Apr-65	46.24	
1965	4	26	Apr-65	44.51	
1965	5	25	May-65	40.29	
1965	6	19	Jun-65	31.51	
1965	7	19	Jul-65	34.51	
1965	8	14	Aug-65	33.30	
1965	9	18	Sep-65	39.55	
1965	10	23	Oct-65	43.54	
1965	11	23	Nov-65	44.79	

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1965	12	18	Dec-65	46.60	
1966	1	18	Jan-66	47.41	
1966	2	28	Feb-66	48.30	
1966	3	25	Mar-66	48.11	
1966	4	23	Apr-66	46.22	
1966	5	24	May-66	35.23	
1966	6	18	Jun-66	36.70	
1966	7	18	Jul-66	41.30	S
1966	9	17	Sep-66	44.66	
1966	10	27	Oct-66	43.23	
1966	11	20	Nov-66	44.29	
1967	1	16	Jan-67	47.57	
1967	2	24	Feb-67	49.46	
1967	3	25	Mar-67	50.15	
1967	4	22	Apr-67	48.40	
1967	5	31	May-67	37.78	
1967	6	19	Jun-67	34.33	
1967	7	15	Jul-67	36.34	
1967	8	11	Aug-67	38.34	S
1967	9	21	Sep-67	40.78	
1967	10	20	Oct-67	41.90	
1967	11	30	Nov-67	45.36	
1967	12	17	Dec-67	47.26	
1968	1	31	Jan-68	48.11	
1968	3	1	Mar-68	49.32	
1968	3	29	Mar-68	48.77	
1968	4	26	Apr-68	46.46	
1968	5	27	May-68	40.11	
1968	6	21	Jun-68	34.90	
1968	7	20	Jul-68	37.53	
1968	8	15	Aug-68	43.14	S
1968	9	19	Sep-68	41.76	
1968	10	17	Oct-68	43.31	
1968	11	19	Nov-68	45.29	
1968	12	17	Dec-68	46.92	
1969	3	27	Mar-69	50.23	
1969	4	24	Apr-69	43.53	
1969	9	26	Sep-69	39.95	
1970	3	28	Mar-70	46.75	
1970	9	26	Sep-70	40.20	
1971	4	21	Apr-71	43.79	
1971	9	20	Sep-71	38.60	
1972	3	24	Mar-72	44.52	
1972	9	19	Sep-72	40.80	
1973	3	16	Mar-73	47.55	
1973	9	19	Sep-73	44.07	S
1974	2	28	Feb-74	47.59	

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1974	9	18	Sep-74	40.35	
1975	3	12	Mar-75	46.50	
1975	5	21	May-75	39.62	
1975	5	25	May-75	38.14	
1975	5	31	May-75	36.13	
1975	6	5	Jun-75	35.23	
1975	6	10	Jun-75	33.68	
1975	6	15	Jun-75	33.62	
1975	6	20	Jun-75	33.51	
1975	6	25	Jun-75	33.21	
1975	6	26	Jun-75	33.05	
1975	7	16	Jul-75	35.13	
1975	7	20	Jul-75	35.75	
1975	7	25	Jul-75	36.13	
1975	7	31	Jul-75	35.13	
1975	8	5	Aug-75	36.56	S
1975	8	10	Aug-75	37.92	S
1975	8	15	Aug-75	38.00	S
1975	8	20	Aug-75	37.12	S
1975	8	25	Aug-75	38.35	S
1975	8	31	Aug-75	37.74	
1975	9	3	Sep-75	37.22	
1975	9	5	Sep-75	37.25	
1975	9	10	Sep-75	38.37	
1975	9	15	Sep-75	39.17	
1975	9	19	Sep-75	39.87	
1975	9	20	Sep-75	39.84	
1975	9	22	Sep-75	39.81	
1975	9	25	Sep-75	39.79	
1975	9	29	Sep-75	39.87	
1975	10	5	Oct-75	39.73	
1975	10	10	Oct-75	39.58	
1975	10	15	Oct-75	40.37	
1975	10	20	Oct-75	41.13	
1975	10	25	Oct-75	41.99	
1975	10	31	Oct-75	42.67	
1975	11	5	Nov-75	42.90	
1975	11	10	Nov-75	42.08	
1975	11	15	Nov-75	43.36	
1975	11	20	Nov-75	43.55	
1975	12	17	Dec-75	45.21	
1975	12	20	Dec-75	45.37	
1975	12	25	Dec-75	45.64	
1975	12	31	Dec-75	45.93	
1976	3	25	Mar-76	47.92	
1976	9	27	Sep-76	41.89	
1977	3	12	Mar-77	48.35	

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1977	5	20	May-77	45.61	
1977	7	17	Jul-77	41.22	
1977	9	18	Sep-77	45.09	
1977	11	18	Nov-77	46.31	
1978	1	28	Jan-78	48.90	
1978	3	30	Mar-78	48.49	
1978	5	22	May-78	43.20	
1978	7	13	Jul-78	37.57	
1978	8	24	Aug-78	40.74	
1978	8	25	Aug-78	40.79	
1978	8	31	Aug-78	41.09	
1978	9	5	Sep-78	41.50	
1978	9	10	Sep-78	41.69	
1978	9	15	Sep-78	42.60	
1978	9	20	Sep-78	42.50	
1978	9	21	Sep-78	42.59	
1978	9	25	Sep-78	42.86	
1978	9	30	Sep-78	43.09	
1978	10	5	Oct-78	43.34	
1978	10	10	Oct-78	43.48	
1978	10	15	Oct-78	43.53	
1978	10	20	Oct-78	43.48	
1978	10	25	Oct-78	43.73	
1978	10	31	Oct-78	44.15	
1978	11	5	Nov-78	44.40	
1978	11	10	Nov-78	44.69	
1978	11	15	Nov-78	44.93	
1978	11	20	Nov-78	45.23	
1978	11	25	Nov-78	45.46	
1978	11	30	Nov-78	45.74	
1978	12	5	Dec-78	45.88	
1978	12	10	Dec-78	46.16	
1978	12	15	Dec-78	46.32	
1978	12	20	Dec-78	46.54	
1978	12	25	Dec-78	46.73	
1978	12	31	Dec-78	47.11	
1979	1	5	Jan-79	47.50	
1979	1	10	Jan-79	47.35	
1979	1	15	Jan-79	47.10	
1979	1	20	Jan-79	47.06	
1979	1	24	Jan-79	47.10	
1979	1	25	Jan-79	47.12	
1979	1	31	Jan-79	47.32	
1979	2	5	Feb-79	47.50	
1979	2	10	Feb-79	47.41	
1979	2	15	Feb-79	47.42	
1979	2	20	Feb-79	47.46	

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1979	2	25	Feb-79	47.59	
1979	2	28	Feb-79	47.68	
1979	3	5	Mar-79	47.86	
1979	3	10	Mar-79	48.03	
1979	3	15	Mar-79	48.12	
1979	3	20	Mar-79	47.90	
1979	3	25	Mar-79	47.81	
1979	3	31	Mar-79	47.68	
1979	4	5	Apr-79	47.67	
1979	4	10	Apr-79	47.69	
1979	4	15	Apr-79	47.65	
1979	4	20	Apr-79	47.60	
1979	4	25	Apr-79	47.56	
1979	4	30	Apr-79	45.72	
1979	5	5	May-79	45.64	
1979	5	10	May-79	45.50	
1979	5	15	May-79	45.33	
1979	5	20	May-79	44.88	
1979	5	25	May-79	43.46	
1979	5	31	May-79	40.95	
1979	6	5	Jun-79	40.54	
1979	6	10	Jun-79	40.25	
1979	6	15	Jun-79	39.40	
1979	6	20	Jun-79	39.05	
1979	6	25	Jun-79	38.80	
1979	6	30	Jun-79	39.16	
1979	7	5	Jul-79	39.64	
1979	7	10	Jul-79	39.71	
1979	7	16	Jul-79	40.39	
1979	7	20	Jul-79	40.87	
1979	7	25	Jul-79	41.76	
1979	7	31	Jul-79	43.85	S
1979	8	5	Aug-79	43.84	T
1979	8	10	Aug-79	43.86	
1979	8	15	Aug-79	43.83	
1979	8	20	Aug-79	43.68	
1979	8	25	Aug-79	43.62	
1979	10	2	Oct-79	45.64	
1979	10	5	Oct-79	45.64	
1979	10	10	Oct-79	45.54	
1979	10	15	Oct-79	45.54	
1979	10	20	Oct-79	45.46	
1979	10	25	Oct-79	45.46	
1979	10	29	Oct-79	45.41	
1979	10	31	Oct-79	45.43	
1979	11	5	Nov-79	45.45	
1979	11	10	Nov-79	45.54	

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1979	11	15	Nov-79	45.79	
1979	11	19	Nov-79	45.92	
1979	11	20	Nov-79	45.96	
1979	11	25	Nov-79	46.33	
1979	11	30	Nov-79	46.53	
1979	12	5	Dec-79	46.61	
1979	12	10	Dec-79	46.79	
1979	12	15	Dec-79	47.18	
1979	12	20	Dec-79	47.54	
1979	12	25	Dec-79	47.85	
1979	12	31	Dec-79	48.20	
1980	1	5	Jan-80	48.34	
1980	1	10	Jan-80	48.55	
1980	1	14	Jan-80	48.67	
1980	1	15	Jan-80	48.57	
1980	1	20	Jan-80	48.40	
1980	1	25	Jan-80	48.60	
1980	1	31	Jan-80	48.79	
1980	2	4	Feb-80	48.92	
1980	3	26	Mar-80	49.25	
1980	3	31	Mar-80	49.09	
1980	4	5	Apr-80	49.03	
1980	4	10	Apr-80	48.83	
1980	4	15	Apr-80	48.55	
1980	4	20	Apr-80	48.01	
1980	4	25	Apr-80	46.34	
1980	4	30	Apr-80	45.08	
1980	5	5	May-80	43.95	
1980	5	10	May-80	43.29	
1980	5	15	May-80	42.83	
1980	5	20	May-80	42.39	
1980	5	25	May-80	42.05	
1980	5	31	May-80	42.04	
1980	6	5	Jun-80	42.03	
1980	6	10	Jun-80	41.79	
1980	6	15	Jun-80	41.11	
1980	6	20	Jun-80	40.37	
1980	6	25	Jun-80	39.80	
1980	6	30	Jun-80	39.12	
1980	7	3	Jul-80	39.09	
1980	7	5	Jul-80	39.26	
1980	7	10	Jul-80	39.43	
1980	7	15	Jul-80	38.83	
1980	7	20	Jul-80	38.11	
1980	7	23	Jul-80	37.99	
1980	7	25	Jul-80	38.08	
1980	7	31	Jul-80	38.41	

Daily Depth to Water Measurements of Punkin Center Well and USGSWell					
Year	Month	Day	DATE	Depth	Status Code
1980	8	5	Aug-80	38.88	
1980	8	10	Aug-80	39.51	
1980	8	15	Aug-80	40.43	
1980	8	20	Aug-80	41.03	
1980	8	25	Aug-80	41.54	
1980	8	30	Aug-80	42.00	
1980	9	5	Sep-80	42.39	
1980	9	8	Sep-80	42.73	
1980	9	15	Sep-80	42.50	
1980	9	20	Sep-80	42.27	
1980	9	25	Sep-80	42.34	
1980	9	30	Sep-80	42.47	
1980	10	5	Oct-80	42.59	
1980	10	10	Oct-80	42.86	
1980	10	15	Oct-80	43.18	
1980	10	20	Oct-80	43.52	
1980	10	25	Oct-80	43.85	
1980	11	5	Nov-80	44.33	
1980	11	10	Nov-80	44.44	
1980	11	13	Nov-80	44.46	
1980	12	16	Dec-80	46.17	
1980	12	20	Dec-80	46.21	
1980	12	25	Dec-80	46.31	
1980	12	30	Dec-80	46.36	
1981	1	20	Jan-81	47.48	
1981	1	25	Jan-81	47.63	
1981	1	31	Jan-81	47.86	
1981	2	5	Feb-81	48.06	
1981	2	8	Feb-81	48.21	
1981	3	30	Mar-81	47.91	
1981	4	25	Apr-81	46.06	
1981	4	30	Apr-81	45.17	
1981	5	5	May-81	44.49	
1981	5	10	May-81	43.37	
1981	5	19	May-81	41.31	
1981	5	20	May-81	41.33	
1981	5	25	May-81	41.18	
1981	6	24	Jun-81	38.74	
1981	6	25	Jun-81	39.02	
1981	6	30	Jun-81	39.09	
1981	7	5	Jul-81	38.54	
1981	7	10	Jul-81	38.74	
1981	7	15	Jul-81	39.17	
1981	7	20	Jul-81	39.11	
1981	7	25	Jul-81	39.81	
1981	7	31	Jul-81	40.35	
1981	8	5	Aug-81	40.90	

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1981	8	10	Aug-81	41.70	
1981	8	15	Aug-81	41.73	
1981	8	20	Aug-81	42.60	
1981	8	25	Aug-81	43.39	
1981	8	31	Aug-81	43.91	
1981	9	5	Sep-81	44.04	
1981	9	10	Sep-81	44.20	
1981	9	15	Sep-81	44.23	
1981	9	20	Sep-81	44.51	
1981	9	25	Sep-81	44.36	
1981	9	30	Sep-81	44.15	
1981	10	5	Oct-81	44.13	
1981	10	10	Oct-81	44.35	
1981	10	15	Oct-81	44.53	
1981	10	20	Oct-81	44.73	
1981	10	25	Oct-81	44.90	
1981	10	31	Oct-81	45.01	
1981	11	5	Nov-81	44.96	
1981	11	10	Nov-81	44.94	
1981	11	15	Nov-81	45.07	
1981	11	20	Nov-81	45.04	
1981	11	25	Nov-81	45.16	
1981	11	30	Nov-81	45.67	
1981	12	5	Dec-81	46.08	
1981	12	10	Dec-81	46.45	
1981	12	15	Dec-81	46.84	
1981	12	20	Dec-81	47.31	
1981	12	25	Dec-81	47.33	
1981	12	31	Dec-81	47.54	
1982	1	5	Jan-82	47.75	
1982	1	10	Jan-82	47.85	
1982	1	15	Jan-82	47.55	
1982	1	20	Jan-82	47.22	
1982	1	25	Jan-82	47.42	
1982	1	31	Jan-82	47.80	
1982	2	5	Feb-82	48.12	
1982	2	10	Feb-82	48.38	
1982	2	15	Feb-82	48.52	
1982	2	17	Feb-82	48.55	
1982	2	20	Feb-82	48.48	
1982	2	25	Feb-82	48.06	
1982	2	28	Feb-82	47.93	
1982	3	5	Mar-82	47.82	
1982	3	10	Mar-82	47.82	
1982	3	15	Mar-82	47.56	
1982	3	20	Mar-82	47.44	
1982	3	25	Mar-82	47.51	

Daily Depth to Water Measurements of Punkin Center Well and USGSWell					
Year	Month	Day	DATE	Depth	Status Code
1982	3	31	Mar-82	47.44	
1982	4	5	Apr-82	47.34	
1982	4	10	Apr-82	47.38	
1982	4	15	Apr-82	46.92	
1982	4	20	Apr-82	46.41	
1982	4	25	Apr-82	46.16	
1982	4	30	Apr-82	44.58	
1982	5	5	May-82	43.52	
1982	5	10	May-82	42.87	
1982	5	15	May-82	42.36	
1982	5	20	May-82	41.16	
1982	5	25	May-82	40.68	
1982	5	31	May-82	40.56	
1982	6	5	Jun-82	39.92	
1982	6	10	Jun-82	39.26	
1982	6	15	Jun-82	39.19	
1982	6	20	Jun-82	39.43	
1982	6	25	Jun-82	39.44	
1982	6	30	Jun-82	39.42	
1982	7	3	Jul-82	39.08	
1982	7	5	Jul-82	39.35	
1982	7	10	Jul-82	39.81	
1982	7	15	Jul-82	40.24	
1982	7	20	Jul-82	39.96	
1982	7	25	Jul-82	39.20	
1982	7	31	Jul-82	38.79	
1982	8	5	Aug-82	38.43	
1982	8	6	Aug-82	38.25	
1982	8	10	Aug-82	38.64	
1982	8	15	Aug-82	39.34	
1982	8	20	Aug-82	39.38	
1982	8	25	Aug-82	39.65	
1982	8	31	Aug-82	41.28	
1982	9	5	Sep-82	41.62	
1982	9	10	Sep-82	41.68	
1982	9	15	Sep-82	41.95	
1982	9	20	Sep-82	42.05	
1982	9	25	Sep-82	42.71	
1982	9	30	Sep-82	42.72	
1982	10	5	Oct-82	42.81	
1982	10	10	Oct-82	43.01	
1982	10	15	Oct-82	43.21	
1982	10	20	Oct-82	43.43	
1982	10	25	Oct-82	43.60	
1982	10	31	Oct-82	43.68	
1982	11	5	Nov-82	43.66	
1982	11	10	Nov-82	43.66	

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1982	11	15	Nov-82	43.92	
1982	11	17	Nov-82	44.02	
1982	11	20	Nov-82	44.22	
1982	11	25	Nov-82	44.53	
1982	11	30	Nov-82	44.80	
1982	12	5	Dec-82	45.09	
1982	12	10	Dec-82	45.33	
1982	12	15	Dec-82	45.55	
1982	12	20	Dec-82	45.71	
1982	12	25	Dec-82	45.85	
1982	12	31	Dec-82	46.02	
1983	1	5	Jan-83	46.13	
1983	1	10	Jan-83	46.14	
1983	1	15	Jan-83	46.20	
1983	1	20	Jan-83	46.28	
1983	1	25	Jan-83	46.40	
1983	1	31	Jan-83	46.53	
1983	2	5	Feb-83	46.69	
1983	2	10	Feb-83	46.87	
1983	2	15	Feb-83	46.94	
1983	2	20	Feb-83	46.99	
1983	2	25	Feb-83	47.09	
1983	2	28	Feb-83	47.11	
1983	3	5	Mar-83	46.95	
1983	3	10	Mar-83	46.60	
1983	3	15	Mar-83	45.91	
1983	3	20	Mar-83	45.19	
1983	3	25	Mar-83	45.07	
1983	3	31	Mar-83	45.08	
1983	4	5	Apr-83	44.57	
1983	4	10	Apr-83	44.22	
1983	4	15	Apr-83	43.96	
1983	4	20	Apr-83	43.84	
1983	4	25	Apr-83	43.50	
1983	4	30	Apr-83	43.00	
1983	5	5	May-83	42.42	
1983	5	10	May-83	40.79	
1983	5	11	May-83	40.58	
1983	5	15	May-83	40.38	
1983	5	20	May-83	39.96	
1983	5	25	May-83	38.58	
1983	5	31	May-83	36.88	
1983	6	5	Jun-83	36.69	
1983	6	10	Jun-83	36.06	
1983	6	15	Jun-83	36.66	
1983	6	20	Jun-83	36.16	
1983	6	25	Jun-83	36.33	

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1983	6	30	Jun-83	36.56	
1983	7	5	Jul-83	37.06	
1983	7	10	Jul-83	37.62	
1983	7	15	Jul-83	37.76	
1983	7	20	Jul-83	37.12	
1983	7	25	Jul-83	36.49	
1983	7	31	Jul-83	37.17	
1983	8	5	Aug-83	36.95	
1983	8	10	Aug-83	36.98	
1983	8	15	Aug-83	37.22	
1983	8	20	Aug-83	36.87	
1983	8	25	Aug-83	37.81	
1983	8	31	Aug-83	39.86	
1983	9	5	Sep-83	40.75	
1983	9	10	Sep-83	41.20	
1983	9	15	Sep-83	41.68	
1983	9	20	Sep-83	41.94	
1983	9	25	Sep-83	42.07	
1983	9	30	Sep-83	42.16	
1983	10	5	Oct-83	41.85	
1983	10	10	Oct-83	41.85	
1983	10	15	Oct-83	41.97	
1983	10	20	Oct-83	42.11	
1983	10	25	Oct-83	42.28	
1983	10	27	Oct-83	42.35	
1983	10	28	Oct-83	42.34	
1983	10	31	Oct-83	42.39	
1983	11	5	Nov-83	42.38	
1983	11	10	Nov-83	42.40	
1983	11	15	Nov-83	42.41	
1983	11	20	Nov-83	42.42	
1983	11	25	Nov-83	42.63	
1983	11	30	Nov-83	42.84	
1983	12	5	Dec-83	43.03	
1983	12	10	Dec-83	43.14	
1983	12	15	Dec-83	43.24	
1983	12	20	Dec-83	43.47	
1983	12	25	Dec-83	43.32	
1983	12	31	Dec-83	43.41	
1984	1	5	Jan-84	43.37	
1984	1	10	Jan-84	43.23	
1984	1	15	Jan-84	43.32	
1984	1	20	Jan-84	43.72	
1984	1	25	Jan-84	43.22	
1984	1	31	Jan-84	43.36	
1984	2	5	Feb-84	43.50	
1984	2	10	Feb-84	43.39	

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1984	2	15	Feb-84	43.23	
1984	2	20	Feb-84	43.74	
1984	2	25	Feb-84	44.37	
1984	2	29	Feb-84	44.79	
1984	3	5	Mar-84	45.05	
1984	3	10	Mar-84	45.29	
1984	3	15	Mar-84	45.38	
1984	3	20	Mar-84	45.44	
1984	3	21	Mar-84	45.46	
1984	3	25	Mar-84	45.41	
1984	3	31	Mar-84	45.40	
1984	4	5	Apr-84	45.17	
1984	4	10	Apr-84	44.24	
1984	4	15	Apr-84	43.53	
1984	4	20	Apr-84	43.28	
1984	4	25	Apr-84	43.25	
1984	4	30	Apr-84	43.36	
1984	5	5	May-84	43.51	
1984	5	10	May-84	43.63	
1984	5	15	May-84	41.92	
1984	7	24	Jul-84	38.22	
1984	9	16	Sep-84	42.53	S
1984	9	20	Sep-84	42.36	
1984	11	27	Nov-84	45.11	
1984	11	30	Nov-84	45.32	
1984	12	2	Dec-84	45.28	
1984	12	12	Dec-84	45.28	
1984	12	15	Dec-84	45.32	
1984	12	20	Dec-84	45.36	
1984	12	25	Dec-84	45.39	
1984	12	31	Dec-84	45.41	
1985	1	9	Jan-85	45.59	
1985	1	10	Jan-85	45.60	
1985	1	15	Jan-85	45.78	
1985	1	20	Jan-85	45.99	
1985	1	25	Jan-85	46.11	
1985	1	31	Jan-85	46.31	
1985	2	5	Feb-85	46.62	
1985	2	8	Feb-85	46.86	
1985	3	26	Mar-85	47.12	
1985	3	30	Mar-85	47.19	
1985	3	31	Mar-85	47.19	
1985	4	5	Apr-85	46.65	
1985	4	10	Apr-85	46.26	
1985	4	15	Apr-85	45.57	
1985	4	20	Apr-85	45.05	
1985	4	25	Apr-85	44.87	

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1985	4	30	Apr-85	44.84	
1985	5	5	May-85	44.30	
1985	5	10	May-85	42.82	
1985	5	15	May-85	41.93	
1985	5	20	May-85	40.88	
1985	5	25	May-85	40.78	
1985	5	31	May-85	39.75	
1985	6	5	Jun-85	39.41	
1985	6	10	Jun-85	39.01	
1985	6	15	Jun-85	38.28	
1985	6	20	Jun-85	37.39	
1985	6	21	Jun-85	38.33	
1985	6	25	Jun-85	37.92	
1985	6	30	Jun-85	39.28	
1985	7	5	Jul-85	40.02	
1985	7	10	Jul-85	40.41	
1985	7	15	Jul-85	40.28	
1985	7	20	Jul-85	40.11	
1985	7	25	Jul-85	41.99	
1985	7	31	Jul-85	42.45	
1985	8	5	Aug-85	42.10	
1985	8	10	Aug-85	42.81	
1985	8	12	Aug-85	43.06	
1985	9	17	Sep-85	43.24	
1985	9	20	Sep-85	43.20	
1985	9	25	Sep-85	43.18	
1985	9	30	Sep-85	43.38	
1985	10	5	Oct-85	43.58	
1985	10	10	Oct-85	43.82	
1985	10	16	Oct-85	44.18	
1985	10	20	Oct-85	44.37	
1985	10	25	Oct-85	44.74	
1985	10	31	Oct-85	45.01	
1985	11	5	Nov-85	45.29	
1985	11	10	Nov-85	45.55	
1985	11	15	Nov-85	45.85	
1985	11	20	Nov-85	46.21	
1985	11	25	Nov-85	46.66	
1985	11	30	Nov-85	46.82	
1985	12	5	Dec-85	46.87	
1985	12	10	Dec-85	46.89	
1985	12	15	Dec-85	47.17	
1985	12	20	Dec-85	47.02	
1985	12	25	Dec-85	45.66	
1985	12	31	Dec-85	45.51	
1986	1	5	Jan-86	45.52	
1986	1	10	Jan-86	45.54	

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1986	1	15	Jan-86	45.83	
1986	1	20	Jan-86	46.09	
1986	1	25	Jan-86	46.41	
1986	1	31	Jan-86	46.70	
1986	2	5	Feb-86	46.78	
1986	2	10	Feb-86	47.14	
1986	2	15	Feb-86	47.26	
1986	2	20	Feb-86	46.83	
1986	2	25	Feb-86	46.61	
1986	2	28	Feb-86	45.96	
1986	3	5	Mar-86	44.46	
1986	3	10	Mar-86	43.91	
1986	3	15	Mar-86	43.38	
1986	3	20	Mar-86	43.30	
1986	3	25	Mar-86	43.22	
1986	3	31	Mar-86	43.32	
1986	4	5	Apr-86	43.49	
1986	4	10	Apr-86	43.54	
1986	4	15	Apr-86	43.38	
1986	4	20	Apr-86	43.47	
1986	4	25	Apr-86	43.21	
1986	4	30	Apr-86	42.68	
1986	5	5	May-86	42.09	
1986	5	10	May-86	41.61	
1986	5	15	May-86	41.67	
1986	5	20	May-86	41.52	
1986	5	25	May-86	41.10	
1986	5	31	May-86	40.34	
1986	6	5	Jun-86	38.90	
1986	6	10	Jun-86	37.87	
1986	6	15	Jun-86	37.67	
1986	6	20	Jun-86	36.39	
1986	6	22	Jun-86	36.09	
1986	6	25	Jun-86	36.47	
1986	6	30	Jun-86	36.86	
1986	7	5	Jul-86	37.15	
1986	7	10	Jul-86	37.64	
1986	7	15	Jul-86	38.07	
1986	7	20	Jul-86	37.59	
1986	7	22	Jul-86	37.79	
1986	9	16	Sep-86	40.24	
1986	11	21	Nov-86	44.18	
1987	1	13	Jan-87	45.72	
1987	3	25	Mar-87	45.57	
1987	5	13	May-87	42.23	
1987	7	22	Jul-87	44.76	S
1987	9	24	Sep-87	46.18	

Daily Depth to Water Measurements of Punkin Center Well and USGS Well					
Year	Month	Day	DATE	Depth	Status Code
1987	11	19	Nov-87	45.80	
1988	1	5	Jan-88	47.35	
1988	3	30	Mar-88	45.74	
1988	5	12	May-88	43.98	
1988	7	20	Jul-88	43.60	
1988	9	20	Sep-88	47.95	
1988	11	18	Nov-88	47.63	
1989	1	25	Jan-89	48.30	
1989	3	17	Mar-89	49.19	
1989	5	12	May-89	42.80	
1989	7	18	Jul-89	41.62	
1989	9	14	Sep-89	47.76	S
1989	11	28	Nov-89	47.47	
1990	1	10	Jan-90	49.01	
1990	3	23	Mar-90	49.46	
1990	5	22	May-90	44.92	
1990	7	24	Jul-90	43.92	S
1990	9	7	Sep-90	45.78	S
1990	12	5	Dec-90	49.30	
1991	1	22	Jan-91	49.46	
1991	2	27	Feb-91	50.42	
1991	5	23	May-91	45.71	
1991	5	30	May-91	45.09	
1991	7	11	Jul-91	43.08	
1991	9	4	Sep-91	45.74	
1991	9	24	Sep-91	45.59	
1991	11	19	Nov-91	47.16	
1992	1	7	Jan-92	49.93	
1992	4	2	Apr-92	48.96	
1992	5	15	May-92	44.27	
1992	7	15	Jul-92	45.34	
1992	9	15	Sep-92	49.83	
1992	11	23	Nov-92	49.00	
1993	1	21	Jan-93	48.85	
1993	3	23	Mar-93	51.87	
1993	4	22	22-Apr-93	46.64	U OF I
1993	5	10	May-93	46.74	
1993	7	20	20-Jul-93	41.86	
1993	8	6	6-Aug-93	42.20	U OF I
1993	9	14	Sep-93	43.95	
1993	12	1	1-Dec-93	47.18	
1993	12	6	6-Dec-93	46.00	U OF I

Appendix B

Canal Diversions from Big Wood River District 45 Canal and Silver Creek

Canal Diversions from Big Wood River and Silver Creek-1993							
	WATER DISTRICT #37 & 37-M						
CANAL NAME	HIAWATHA STATION NUMBER 22					YEAR	1993
DAILY DISCHARGE IN SECOND FEET							
DATE	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1			57.00	43.00	51.00	28.00	1.00
2			48.00	52.00	43.00	30.00	2.00
3			45.00	43.00	30.00	30.00	3.00
4			41.00	37.00	30.00	30.00	4.00
5			38.00	37.00	30.00	30.00	5.00
6			47.00	38.00	30.00	30.00	6.00
7			45.00	40.00	29.00	31.00	7.00
8			43.00	39.00	30.00	31.00	8.00
9			38.00	38.00	30.00	30.00	9.00
10		15.00	47.00	39.00	30.00	31.00	10.00
11		22.00	50.00	38.00	30.00	31.00	11.00
12		23.00	43.00	34.00	31.00	31.00	12.00
13		27.00	41.00	30.00	30.00	32.00	13.00
14		34.00	37.00	38.00	31.00	32.00	14.00
15		30.00	47.00	43.00	30.00	33.00	15.00
16		28.00	52.00	37.00	31.00	32.00	16.00
17		33.00	47.00	30.00	31.00	32.00	17.00
18		31.00	47.00	21.00	30.00	33.00	18.00
19		36.00	50.00	20.00	30.00	34.00	19.00
20		38.00	57.00	22.00	32.00	32.00	20.00
21		39.00	59.00	23.00	31.00	33.00	21.00
22		43.00	59.00	19.00	30.00	33.00	22.00
23		42.00	47.00	36.00	30.00	32.00	23.00
24		44.00	45.00	55.00	30.00	31.00	24.00
25		48.00	52.00	54.00	30.00	31.00	25.00
26		56.00	55.00	54.00	30.00	30.00	26.00
27		57.00	62.00	53.00	30.00	30.00	27.00
28		55.00	57.00	53.00	30.00	30.00	28.00
29		51.00	45.00	54.00	30.00	30.00	29.00
30		51.00	37.00	54.00	29.00	30.00	30.00
31		51.00		53.00	29.00		31.00
TOTAL							
MEAN	0.00	854.00	1438.00	1227.00	968.00	933.00	
A.F.		41.00	48.00	40.00	31.00	31.00	
	0.00	1691.00	2847.00	2429.00	1917.00	1847.00	
YEARLY C.F.S.			5420.00				
YEARLY ACRE FEET			10731.60				
TOTAL NUMBER OF DAYS				144.00			
YEARLY MEAN			38.00				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		DRAGER	CANAL NUMBER 35-A				
OWNER	GREGORY MOORE						1993.00
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			0.04	0.04	0.40		1.00
3			0.04	0.04	0.40		2.00
4			0.04	0.04			3.00
5		0.04	0.04	0.04			4.00
6		0.04	0.04	0.04			5.00
7		0.04	0.04	0.04			6.00
8		0.04	0.04	0.04			7.00
9		0.04	0.04	0.04			8.00
10		0.04	0.04	0.04			9.00
11		0.04	0.04	0.04			10.00
12		0.04	0.04	0.04			11.00
13		0.04	0.04	0.04			12.00
14		0.04	0.04	0.04			13.00
15		0.04	0.04	0.04			14.00
16		0.04	0.04	0.04			15.00
17		0.04	0.04	0.04			16.00
18		0.04	0.04	0.04			17.00
19		0.04	0.04	0.04			18.00
20		0.04	0.04	0.04			19.00
21		0.04	0.04	0.04			20.00
22		0.04	0.04	0.04			21.00
23		0.04	0.04	0.04			22.00
24		0.04	0.04	0.04			23.00
25		0.04	0.04	0.04			24.00
26		0.04	0.04	0.04			25.00
27		0.04	0.04	0.04			26.00
28		0.04	0.04	0.04			27.00
29		0.04	0.04	0.04			28.00
30		0.04	0.04	0.04			29.00
31		0.04	0.04	0.04			30.00
		0.04		0.04			31.00
TOTAL							
	0.00	1.12	1.20	1.24	0.80	0.00	
YEARLY C.F.S.			4.36				
YEARLY ACRE FEET			8.63				
TOTAL NO. OF DAYS			91.00				
YEARLY MEAN			0.05				
YEARLY MEAN			0.20				

	WATER DISTRICT #37 & 37-M						
CANAL NAME	WRENCHER		CANAL NUMBER 39-A				
OWNER	RON HANSEN						1993.00
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2		1.00		1.00	1.00	1.00	1.00
3		1.00		1.00	1.00	1.00	2.00
4		1.00		1.00	1.00	1.00	3.00
5		1.00		1.00	1.00	1.00	4.00
6		1.00		1.00	1.00	1.00	5.00
7		1.00		1.00	1.00	1.00	6.00
8		1.00		1.00	1.00	1.00	7.00
9		1.00		1.00	1.00	1.00	8.00
10		1.00		1.00	1.00	1.00	9.00
11		1.00		1.00	1.00	1.00	10.00
12		1.00		1.00	1.00	1.00	11.00
13		1.00	1.00	1.00	1.00	1.00	12.00
14		1.00	1.00	1.00	1.00	1.00	13.00
15		1.00	1.00	1.00	1.00	1.00	14.00
16	1.00	1.00	1.00	1.00	1.00	1.00	15.00
17	1.00	1.00	1.00	1.00	1.00	1.00	16.00
18	1.00	1.00	1.00	1.00	1.00	1.00	17.00
19	1.00	1.00	1.00	1.00	1.00	1.00	18.00
20	1.00	1.00	1.00	1.00	1.00	1.00	19.00
21	1.00	1.00	1.00	1.00	1.00	1.00	20.00
22	1.00	1.00	1.00	1.00	1.00	1.00	21.00
23	1.00	1.00	1.00	1.00	1.00	1.00	22.00
24	1.00	1.00	1.00	1.00	1.00	1.00	23.00
25	1.00	1.00	1.00	1.00	1.00	1.00	24.00
26	1.00	1.00	1.00	1.00	1.00	1.00	25.00
27	1.00	1.00	1.00	1.00	1.00	1.00	26.00
28	1.00		1.00	1.00	1.00	1.00	27.00
29	1.00		1.00	1.00	1.00	1.00	28.00
30	1.00		1.00	1.00	1.00	1.00	29.00
31			1.00	1.00	1.00	1.00	30.00
				1.00	1.00		31.00
TOTAL							
	18.00	31.00	23.00	30.00	22.00	21.00	
YEARLY C.F.S.			145.00				
YEARLY ACRE FEET			287.00				
TOTAL NO. OF DAYS			152.00				
YEARLY MEAN			1.00				
YEARLY MEAN			0.56				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		CAL-PAC	CANAL NUMBER 42-P1				
OWNER	CAL-PACIFCO						1993.00
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			0.58	0.60	0.60		1.00
3			0.58	0.60	0.60		2.00
4			0.58	0.60	0.60		3.00
5			0.58	0.60	0.60		4.00
6				0.60	0.60		5.00
7				0.60	0.60		6.00
8				0.60	0.60		7.00
9				0.60	0.60		8.00
10				0.60	0.60		9.00
11			0.58		0.60		10.00
12			0.58		0.60		11.00
13					0.60		12.00
14					0.60		13.00
15					0.60		14.00
16			0.58		0.60		15.00
17			0.58		0.60		16.00
18			0.58		0.60		17.00
19			0.58		0.60		18.00
20			0.58		0.60		19.00
21			0.58		0.60		20.00
22			0.58		0.60		21.00
23			0.66	0.58	0.60		22.00
24			0.66	0.58	0.60		23.00
25			0.60	0.58	0.60		24.00
26			0.60	0.58	0.60		25.00
27			0.60	0.58			26.00
28			0.60	0.56			27.00
29			0.60	0.56	0.60		28.00
30		0.58	0.60	0.60	0.60		29.00
31		0.58	0.60	0.60			30.00
		0.58		0.60			31.00
TOTAL							
	0.00	1.74	13.06	11.22	16.20	0.00	
YEARLY C.F.S.			42.22				
YEARLY ACRE FEET			83.60				
TOTAL NO. OF DAYS			71.00				
YEARLY MEAN			0.59				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		PAC	CANAL NUMBER 42-P2				1993.00
OWNER	CAL-PACIFICO						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			0.60	0.70	0.73		1.00
3			0.60	0.70	0.73		2.00
4			0.60	0.70	0.73		3.00
5			0.60	0.70	0.73		4.00
6				0.70	0.73		5.00
7				0.70	0.73		6.00
8				0.70			7.00
9							8.00
10							9.00
11			0.24		0.73		10.00
12			0.24		0.73		11.00
13					0.73		12.00
14		0.60			0.73		13.00
15		0.60			0.73		14.00
16		0.60	1.00		0.73		15.00
17		0.60	1.00		0.73		16.00
18		0.60	1.00		0.73		17.00
19		0.60	1.00		0.73		18.00
20		0.60	1.00		0.73		19.00
21		0.60	1.00		0.73		20.00
22		0.60	1.00		0.73		21.00
23		0.60	1.00	0.67	0.73		22.00
24		0.60	1.00	0.67	0.73		23.00
25		0.60	1.00	0.67	0.73		24.00
26		0.60	1.00	0.67	0.73		25.00
27		0.60	1.00	0.67	0.73		26.00
28		0.60	1.00	0.67	0.73		27.00
29		0.60	1.00	0.67	0.73		28.00
30		0.60	0.70	0.67	0.73		29.00
31		0.60	0.70	0.67			30.00
		0.60		0.73			31.00
TOTAL							
	0.00	11.40	18.28	11.66	18.98	0.00	
YEARLY C.F.S.			60.32				
YEARLY ACRE FEET			119.43				
TOTAL NO. OF DAYS			84.00				
YEARLY MEAN			0.72				
TOTAL NO. OF DAYS			14.00				
YEARLY MEAN			2.54				

	WATER DISTRICT #37 & 37-M						
CANAL NAME	BLACK'S DITCH		STATION NUMBER 61				1993.00
HADLEY STUART							
	DAILY DISCHARGE IN SECOND FEET						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2		14.00	39.00	4.00	18.00	7.00	1.00
3		15.00	41.00	7.00	29.00	7.00	2.00
4		15.00	21.00	9.00	48.00	9.00	3.00
5		21.00	8.00	9.00	48.00	10.00	4.00
6		15.00	7.00	7.00	34.00	11.00	5.00
7		21.00	8.00	26.00	24.00	9.00	6.00
8		21.00	8.00	40.00	22.00	9.00	7.00
9		21.00	7.00	42.00	27.00	9.00	8.00
10		15.00	7.00	40.00	17.00	10.00	9.00
11		19.00	6.00	39.00	12.00	10.00	10.00
12		33.00	5.00	34.00	18.00	11.00	11.00
13		48.00	5.00	33.00	12.00	11.00	12.00
14	7.00	48.00	5.00	25.00	5.00	11.00	13.00
15	7.00	37.00	20.00	21.00	5.00	11.00	14.00
16	7.00	32.00	22.00	16.00	5.00	11.00	15.00
17	7.00	30.00	25.00	12.00	5.00	12.00	16.00
18	7.00	28.00	23.00	9.00	5.00	12.00	17.00
19	7.00	29.00	22.00	6.00	4.00	13.00	18.00
20	7.00	30.00	23.00	13.00	4.00	12.00	19.00
21	6.00	35.00	28.00	18.00	4.00	12.00	20.00
22	6.00	42.00	32.00	18.00	6.00	12.00	21.00
23	7.00	25.00	6.00	16.00	6.00	12.00	22.00
24	7.00	4.00	6.00	20.00	6.00	12.00	23.00
25	6.00	4.00	5.00	21.00	6.00	12.00	24.00
26	6.00	5.00	4.00	20.00	8.00	12.00	25.00
27	8.00	24.00	4.00	16.00	8.00	11.00	26.00
28	15.00	45.00	4.00	14.00	18.00	11.00	27.00
29	14.00	43.00	5.00	19.00	12.00	10.00	28.00
30	14.00	42.00	4.00	21.00	11.00	10.00	29.00
31	14.00	38.00	4.00	21.00	10.00	10.00	30.00
TOTAL		37.00		19.00	9.00		31.00
MEAN	152.00	836.00	404.00	615.00	446.00	319.00	
A.F.	8.00	27.00	13.00	20.00	14.00	11.00	
	300.96	1655.28	799.92	1217.70	883.08	631.62	
YEARLY C.F.S			2772.00				
YEARLY ACRE FEET			5488.56				
TOTAL NUMBER O	R OF DAYS			171.00			
YEARLY MEAN			16.21				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		BRETT	CANAL NUMBER 26				1993.00
OWNER	WARREN NISSON						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2				0.75	0.75	0.75	1.00
3				0.75	0.75	0.75	2.00
4				0.75	0.75	0.75	3.00
5				0.75	0.75	0.75	4.00
6				0.75	0.75	0.75	5.00
7				0.75	0.75	0.75	6.00
8				0.75	0.75	0.75	7.00
9			1.67	0.75	0.75	0.75	8.00
10			1.67	0.75	0.75	0.75	9.00
11			1.67	0.75	0.75	0.75	10.00
12			1.67	0.75	0.75	0.75	11.00
13			1.67	0.75	0.75	0.75	12.00
14			1.67	0.75	0.75	0.75	13.00
15			1.67	0.75	0.75	0.75	14.00
16			1.67	0.75	0.75	0.75	15.00
17			1.67	0.75	0.75	0.75	16.00
18			1.67	0.75	0.75	0.75	17.00
19			1.67	0.75	0.75	0.75	18.00
20			1.67	0.75	0.75	0.75	19.00
21			1.67	0.75	0.75	0.75	20.00
22			1.67	0.75	0.75	0.75	21.00
23			1.67	0.75	0.75	0.75	22.00
24			1.67	0.75	0.75	0.75	23.00
25			1.67	0.75	0.75	0.75	24.00
26			1.67	0.75	0.75	0.75	25.00
27			1.67	0.75	0.75	0.75	26.00
28			1.67	0.75	0.75	0.75	27.00
29			1.67	0.75	0.75	0.75	28.00
30			1.67	0.75	0.75	0.75	29.00
31			0.75	0.75	0.75	0.75	30.00
TOTAL				0.75	0.75		31.00
	0.00	0.00	37.49	23.25	23.25	22.50	
YEARLY C.F.S.			106.49				
YEARLY ACRE FEET			210.85				
TOTAL NO. OF DAYS			115.00				
YEARLY MEAN			0.93				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		BRETT	CANAL NUMBER 28				1993.00
OWNER	WARREN NISSON						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2				0.85	0.85	0.85	1.00
3				0.85	0.85	0.85	2.00
4				0.85	0.85	0.85	3.00
5				0.85	0.85	0.85	4.00
6				0.85	0.85	0.85	5.00
7				0.85	0.85	0.85	6.00
8				0.85	0.85	0.85	7.00
9				0.85	0.85	0.85	8.00
10				0.85	0.85	0.85	9.00
11				0.85	0.85	0.85	10.00
12				0.85	0.85	0.85	11.00
13				0.85	0.85	0.85	12.00
14				0.85	0.85	0.85	13.00
15				0.85	0.85	0.85	14.00
16				0.85	0.85	0.85	15.00
17				0.85	0.85	0.85	16.00
18				0.85	0.85	0.85	17.00
19			1.56	0.85	0.85	0.85	18.00
20			1.56	0.85	0.85	0.85	19.00
21			1.56	0.85	0.85	0.85	20.00
22			1.56	0.85	0.85	0.85	21.00
23			1.56	0.85	0.85	0.85	22.00
24			1.56	0.85	0.85	0.85	23.00
25			1.56	0.85	0.85	0.85	24.00
26			1.56	0.85	0.85	0.85	25.00
27			1.56	0.85	0.85	0.85	26.00
28			1.56	0.85	0.85	0.85	27.00
29			1.56	0.85	0.85	0.85	28.00
30			1.56	0.85	0.85	0.85	29.00
31			0.85	0.85	0.85	0.85	30.00
TOTAL				0.85	0.85		31.00
	0.00	0.00	19.57	26.35	26.35	25.50	
	YEARLY C.F.S.		97.77				
	YEARLY ACRE FEET		193.58				
	TOTAL NO. OF DAYS		105.00				
	YEARLY MEAN		0.93				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		BRODIE	CANAL NUMBER 23-P1				1993.00
OWNER	OJ BRODIE						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			2.40	3.10	5.00	5.10	1.00
3			5.00	3.60	5.40	5.10	2.00
4			5.00	3.60	5.40	5.50	3.00
5				3.60	5.40	5.50	4.00
6				5.00	5.40	5.50	5.00
7				5.00	5.40	5.10	6.00
8				4.60	5.40	5.10	7.00
9				4.60	5.40	5.50	8.00
10				5.00	5.00	5.50	9.00
11				5.00	5.00	5.10	10.00
12				5.00	5.00	5.10	11.00
13				4.60	5.00	5.10	12.00
14				4.60		4.85	13.00
15				4.50		4.85	14.00
16				4.50		5.00	15.00
17				3.65		5.00	16.00
18				3.65			17.00
19				3.65			18.00
20				3.80			19.00
21				3.80			20.00
22		3.40	1.75	4.50			21.00
23		3.40	1.75	4.50			22.00
24		3.40	1.50				23.00
25		5.00	1.50				24.00
26		5.00	1.50				25.00
27		5.00	1.50				26.00
28		5.00	1.50				27.00
29		4.80	2.75				28.00
30		4.80	2.75				29.00
31		4.80	3.10	5.00			30.00
		2.40			5.10		31.00
TOTAL							
	0.00	47.00	32.00	98.85	67.90	82.90	
YEARLY C.F.S.			328.65				
YEARLY ACRE FEET			650.73				
TOTAL NO. OF DAYS			76.00				
YEARLY MEAN			4.32				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		BRODIE	CANAL NUMBER 23				1993.00
OWNER	OJ BRODIE						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			2.37	1.32	1.28	2.81	1.00
3			2.37	1.27	1.28	2.81	2.00
4			2.37	1.27	1.28	2.81	3.00
5			4.04	1.27	1.28	2.81	4.00
6			4.04	1.27	1.28	2.81	5.00
7			4.04	1.27	1.28	2.81	6.00
8			4.04	1.28	1.28	2.81	7.00
9			4.04	1.28	1.28	2.81	8.00
10					1.28	2.81	9.00
11					1.28	2.81	10.00
12					1.28	2.81	11.00
13				1.28	1.28	2.81	12.00
14				1.28	1.28	2.81	13.00
15			7.73	1.28	1.28	2.81	14.00
16			7.73	1.28	1.28	2.81	15.00
17			7.73	1.28	1.28	2.81	16.00
18			7.73	1.28	1.28	2.81	17.00
19			4.85	1.28	1.28	2.81	18.00
20		3.50	4.85	1.28	1.28	2.81	19.00
21		3.50	3.95	1.28	1.28		20.00
22		3.50	3.95	1.28	1.28		21.00
23		3.50	3.95	1.28	1.28		22.00
24		3.50	2.97	1.28	1.28		23.00
25		3.00	2.97	1.28	1.28		24.00
26		3.00	3.24	1.28	2.02		25.00
27		2.37	3.24	1.28	2.02		26.00
28		2.37	3.24	1.28	2.81		27.00
29		2.37	2.81	1.28	2.81		28.00
30		2.37	2.81	1.28	2.81		29.00
31		2.37	1.32	1.28	2.81		30.00
		2.37		1.28	2.81		31.00
TOTAL							
	0.00	37.72	102.38	35.83	48.81	53.39	
YEARLY C.F.S.			278.13				
YEARLY ACRE FEET			550.70				
TOTAL NO. OF DAYS			116.00				
YEARLY MEAN			2.40				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		BROWN	CANAL NUMBER 57-F				1993.00
OWNER	SPRING OF GLADNESS RANCH			MIKE MC GONIGAL			
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			2.00	4.00	4.50	4.28	1.00
3			2.00	4.00	4.50	4.02	2.00
4			4.02	4.50	4.50	4.02	3.00
5			4.02	4.50	4.50	4.02	4.00
6			4.02	4.50	4.50	4.02	5.00
7			4.02	4.28	4.50	4.02	6.00
8			4.02	4.28	4.92	4.02	7.00
9			4.02	4.28	4.92	4.02	8.00
10			4.02	4.28	4.92	3.76	9.00
11			4.02	4.28	4.92	3.76	10.00
12			4.02	4.28	4.92	3.76	11.00
13			4.02	4.28	4.50	3.76	12.00
14			4.02	4.28	4.50	3.76	13.00
15			4.02	4.28	4.50	3.40	14.00
16			4.02	4.28	4.50	3.40	15.00
17			4.02	4.28	4.50	3.40	16.00
18			2.00	4.28	4.50	3.40	17.00
19			2.00	4.28	4.50	3.40	18.00
20			2.00	4.28	4.50	3.40	19.00
21			2.00	4.28	4.50	3.40	20.00
22			2.00	4.28	4.50	3.40	21.00
23			4.50	2.84	4.50	3.40	22.00
24			4.50	2.84	4.50	3.20	23.00
25			4.50	4.50	4.02	3.20	24.00
26			4.50	4.50	4.02	3.20	25.00
27			4.50	4.50	4.28	3.20	26.00
28		4.00	4.50	4.50	4.28	3.20	27.00
29		4.00	4.50	4.50	4.28	3.20	28.00
30		4.00	4.00	4.50	4.28	3.20	29.00
31		4.00	4.00	4.50	4.28	2.84	30.00
		4.00		4.50	4.28		31.00
TOTAL							
	0.00	20.00	109.78	131.66	139.32	107.06	
YEARLY C.F.S.			507.82				
YEARLY ACRE FEET			1005.48				
TOTAL NO. OF DAYS			127.00				
YEARLY MEAN			4.00				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		CHAUMELL	CANAL NUMBER 22-P1				1993.00
OWNER	PAT MILLINGTON						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			0.56	0.54	0.60	0.60	1.00
3			0.56	0.54	0.60	0.60	2.00
4			0.56	0.54	0.60	0.60	3.00
5			0.40	0.54	0.60	0.60	4.00
6			0.40	0.54	0.60	0.60	5.00
7				0.54	0.60	0.60	6.00
8				0.54	0.60	0.60	7.00
9				0.54	0.60	0.60	8.00
10				0.54	0.60	0.60	9.00
11				0.54	0.60		10.00
12				0.54	0.60		11.00
13				0.54	0.60		12.00
14				0.54	0.44		13.00
15				0.56	0.44		14.00
16				0.56	0.44		15.00
17			0.56	0.56	0.60		16.00
18		0.44	0.56	0.56	0.60		17.00
19		0.44	0.56	0.56	0.60		18.00
20		0.44	0.56	0.56	0.60		19.00
21		0.44	0.56	0.56	0.60	1.06	20.00
22		0.50	0.56	0.60	0.60	1.06	21.00
23		0.50	0.56	0.60	0.60	1.06	22.00
24		0.50	0.60	0.60	0.60	1.06	23.00
25		0.32	0.60	0.60	0.60	0.60	24.00
26		0.32	0.60	0.60	0.60	0.60	25.00
27		0.32	0.60	0.60	0.60	0.60	26.00
28		0.32	0.60	0.60	0.60	0.60	27.00
29		0.56	0.60	0.60	0.60	0.60	28.00
30		0.56	0.60	0.60	0.60	1.06	29.00
31		0.56	0.54	0.60	0.60	1.06	30.00
		0.56		0.60	0.60		31.00
TOTAL							
	0.00	6.78	11.14	17.54	18.12	14.76	
YEARLY C.F.S.			68.34				
YEARLY ACRE FEET			135.31				
TOTAL NO. OF DAYS			117.00				
YEARLY MEAN			0.58				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		CLARK	CANAL NUMBER 29-P				1993.00
OWNER	LAWRENCE SCHOEN						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			0.20	0.18	0.30	0.20	1.00
3			0.20	0.18		0.20	2.00
4			0.20	0.18		0.20	3.00
5				0.18		0.20	4.00
6				0.20		0.20	5.00
7				0.20		0.20	6.00
8				0.20		0.20	7.00
9				0.20		0.20	8.00
10				0.20		0.20	9.00
11				0.20		0.20	10.00
12			0.20	0.20	0.20	0.20	11.00
13			0.20	0.20	0.20	0.20	12.00
14			0.20	0.20	0.20	0.20	13.00
15			0.20	0.20	0.20	0.20	14.00
16			0.20	0.20	0.20	0.20	15.00
17			0.20	0.30	0.20	0.20	16.00
18			0.20	0.30	0.20	0.20	17.00
19			0.20	0.30		0.20	18.00
20			0.20	0.20		0.20	19.00
21			0.20	0.20	0.20	0.20	20.00
22		0.20	0.20	0.20	0.20	0.20	21.00
23		0.20	0.20	0.20	0.20	0.20	22.00
24		0.20	0.20		0.20	0.20	23.00
25		0.20	0.20		0.20	0.20	24.00
26		0.20	0.20		0.20	0.20	25.00
27		0.20	0.20	0.30	0.20	0.20	26.00
28		0.20	0.20	0.30	0.20		27.00
29		0.20	0.18	0.30	0.20		28.00
30		0.20	0.18	0.30	0.20		29.00
31		0.20	0.18	0.30	0.20		30.00
		0.20		0.30	0.20		31.00
TOTAL							
	0.00	2.20	4.54	6.42	4.10	5.20	
YEARLY C.F.S.			22.46				
YEARLY ACRE FEET			44.47				
TOTAL NO. OF DAYS			108.00				
YEARLY MEAN			0.21				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		CLOUD	CANAL NUMBER 74				1992.00
OWNER	EDITH FREDERICKSON						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2							1.00
3							2.00
4					1.00		3.00
5					1.28		4.00
6					1.28		5.00
7			2.68		1.28		6.00
8			2.68		1.28		7.00
9			2.68		1.28		8.00
10			2.68		1.28		9.00
11			2.68		1.28		10.00
12			2.68		1.28		11.00
13			2.68				12.00
14			2.68				13.00
15			2.68				14.00
16			2.68				15.00
17			2.68				16.00
18			2.68				17.00
19			2.68				18.00
20							19.00
21							20.00
22							21.00
23							22.00
24							23.00
25							24.00
26							25.00
27							26.00
28							27.00
29							28.00
30							29.00
31							30.00
							31.00
TOTAL							
	0.00	0.00	34.84	0.00	11.24	0.00	
YEARLY C.F.S.			46.08				
YEARLY ACRE FEET			91.24				
TOTAL NO. OF DAYS			22.00				
YEARLY MEAN			2.09				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		CLARK	CANAL NUMBER 29-P2				1993.00
OWNER		JACK YOUNG					
DATE							
2	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
3			0.80		0.84	0.84	2.00
4			0.80		0.84	0.84	3.00
5					0.66	0.84	4.00
6				0.40	0.66	0.84	5.00
7				0.40	0.66	0.84	6.00
8				0.40	0.66	0.84	7.00
9				0.40	0.66	0.84	8.00
10				0.40		0.84	9.00
11				0.40			10.00
12				0.40			11.00
13				0.40			12.00
14				0.40		0.84	13.00
15		0.80		0.40		0.84	14.00
16		0.80		0.40		0.84	15.00
17		0.80		0.40	0.84	0.84	16.00
18		0.80		0.40	0.84	0.84	17.00
19		0.80		0.40	0.84	0.84	18.00
20		0.80		0.40	0.84	0.84	19.00
21		0.80			0.84	0.84	20.00
22		0.80		0.84	0.84	0.84	21.00
23		0.80		0.84	0.84		22.00
24		0.80		0.84	0.84		23.00
25		0.80		0.84	0.84		24.00
26		0.80		0.84	0.84		25.00
27				0.48	0.84		26.00
28				0.48	0.84		27.00
29		0.80	0.40	0.84	0.84		28.00
30		0.80	0.40	0.84	0.84		29.00
31		0.80		0.76	0.84		30.00
		0.80		0.76	0.84		31.00
TOTAL							
	0.00	12.80	2.40	14.36	18.42	14.28	
YEARLY C.F.S.			62.26				
YEARLY ACRE FEET			123.27				
TOTAL NO. OF DAYS			86.00				
YEARLY MEAN			0.72				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		CLARK	CANAL NUMBER 29-P3				
OWNER	WALTER HOFSTETTER						1993.00
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2							1.00
3				0.72	0.72		2.00
4				0.72	0.72		3.00
5				0.72	0.72		4.00
6				0.72	0.72		5.00
7				0.72	0.72		6.00
8					0.72		7.00
9					0.72	0.72	8.00
10				0.72		0.72	9.00
11				0.72		0.72	10.00
12				0.72		0.72	11.00
13						0.72	12.00
14					0.72		13.00
15				0.72	0.72		14.00
16				0.72	0.72		15.00
17					0.72		16.00
18					0.72		17.00
19			0.72		0.72		18.00
20		0.75	0.72				19.00
21		0.75	0.72			0.72	20.00
22		0.75	0.72	0.72		0.72	21.00
23		0.75	0.72	0.72			22.00
24		0.75	0.72	0.72			23.00
25		0.75	0.72	0.72		0.72	24.00
26		0.75	0.72	0.72		0.72	25.00
27		0.75	0.72				26.00
28		0.75	0.72		0.72		27.00
29		0.75			0.72		28.00
30							29.00
31							30.00
							31.00
TOTAL							
	0.00	7.50	7.20	10.80	10.80	6.48	
YEARLY C.F.S.			42.78				
YEARLY ACRE FEET			84.70				
TOTAL NO. OF DAYS			59.00				
YEARLY MEAN			0.73				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		DAVIS	CANAL NUMBER 77-P				
OWNER	SPRING CREEK RANCH						1993.00
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			1.56	1.78	4.00		1.00
3			1.56	1.78	4.00	2.22	2.00
4			0.44	2.11	4.67	2.22	3.00
5			0.44	2.11	4.67	2.44	4.00
6				2.11	4.67	2.44	5.00
7				9.11	4.67	2.44	6.00
8				9.11	5.33	2.44	7.00
9				4.44	5.33	2.44	8.00
10				4.44	5.33	4.44	9.00
11				6.67	5.33	4.44	10.00
12				6.67	5.33	3.56	11.00
13				6.67		3.56	12.00
14				6.67		3.56	13.00
15				6.67			14.00
16				1.33			15.00
17				1.33			16.00
18				1.33			17.00
19				1.33			18.00
20				1.33			19.00
21				1.33			20.00
22				1.33			21.00
23				2.67			22.00
24				2.67			23.00
25				2.67			24.00
26				2.67			25.00
27				2.67			26.00
28		4.22		1.33			27.00
29		4.22		1.33			28.00
30		4.22		1.33			29.00
31		4.22		1.33			30.00
		4.22		4.00			31.00
TOTAL							
	0.00	21.10	4.00	102.32	53.33	36.20	
YEARLY C.F.S.			216.95				
YEARLY ACRE FEET			429.56				
TOTAL NO. OF DAYS			63.00				
YEARLY MEAN			3.44				

	WATER DISTRICT #37 & 37-M					
CANAL NAME	DISTRICT CANAL		STATION NUMBER 45			1993.00
DATE	AILY DISCHARGE IN SECOND FEET					
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.
2			240.00	234.00	153.00	64.00
3			234.00	234.00	153.00	94.00
4			213.00	221.00	149.00	91.00
5			188.00	211.00	115.00	92.00
6			186.00	201.00	113.00	99.00
7			160.00	208.00	162.00	92.00
8			132.00	211.00	198.00	85.00
9			124.00	196.00	221.00	81.00
10			118.00	193.00	162.00	79.00
11			117.00	211.00	165.00	79.00
12			126.00	224.00	158.00	76.00
13		37.00	114.00	221.00	172.00	79.00
14		38.00	102.00	213.00	158.00	86.00
15		37.00	145.00	215.00	150.00	73.00
16		77.00	240.00	201.00	112.00	71.00
17		142.00	245.00	191.00	153.00	71.00
18		174.00	241.00	192.00	147.00	72.00
19		169.00	128.00	201.00	128.00	83.00
20		201.00	245.00	202.00	118.00	81.00
21	47.00	240.00	262.00	203.00	120.00	77.00
22	47.00	208.00	276.00	211.00	160.00	78.00
23	44.00	250.00	282.00	212.00	138.00	75.00
24	40.00	240.00	256.00	215.00	118.00	73.00
25	37.00	259.00	240.00	216.00	109.00	69.00
26		273.00	128.00	203.00	102.00	68.00
27		279.00	128.00	185.00	98.00	66.00
28		224.00	245.00	167.00	89.00	66.00
29		213.00	250.00	165.00	83.00	63.00
30		196.00	264.00	181.00	84.00	63.00
31		186.00	245.00	183.00	80.00	62.00
TOTAL		206.00		167.00	72.00	
MEAN	215.00	3649.00	5874.00	6288.00	4140.00	2308.00
A.F.	43.00	192.00	196.00	203.00	136.00	77.00
	425.70	7225.02	11630.52	12450.24	8197.20	4569.84
YEARLY C.F.S.			22474.00			
YEARLY ACRE FEET			44498.52			
TOTAL NUMBER OF DAYS				147.00		
YEARLY MEAN			153.00			

	WATER DISTRICT #37 & 37-M						
CANAL NAME		DITTOE	CANAL NUMBER 56-D				
OWNER	W. MOLYNEUX						1993.00
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			14.00	6.96	12.70	6.96	1.00
3			14.00	6.96	12.70	6.96	2.00
4			14.00	10.00	12.70	6.96	3.00
5			14.00	10.00	12.70	6.96	4.00
6			14.00	10.00	12.70	6.96	5.00
7			14.00	9.84	12.70	6.96	6.00
8			14.00	9.84	12.70	6.96	7.00
9			14.00	9.00	12.70	6.96	8.00
10			14.00	9.00	12.70	6.96	9.00
11			12.00	9.00	12.70	6.96	10.00
12			12.00	9.00	12.70	6.96	11.00
13			12.00	9.00	12.70	6.96	12.00
14			12.00	8.56	12.70	6.96	13.00
15			12.00	8.56	12.70	6.96	14.00
16			10.60	8.56	12.70	6.96	15.00
17			10.60	8.56	12.70	6.96	16.00
18			10.60	10.60	11.40	6.96	17.00
19			10.60	10.60	11.40	6.96	18.00
20			10.60	10.60	12.00	6.96	19.00
21		4.00	10.60	10.60	12.00	6.96	20.00
22		4.00	10.60	10.60	12.00	5.68	21.00
23		8.04	12.00	11.40	12.00	5.68	22.00
24		8.04	12.00	11.40	12.00	5.68	23.00
25		8.04	12.00	12.00	6.40	5.68	24.00
26		15.00	12.00	12.00	6.40	5.68	25.00
27		15.00	12.00	12.00	6.40	5.68	26.00
28		14.00	12.00	8.04	6.40	5.68	27.00
29		14.00	12.00	8.04	6.40	5.68	28.00
30		14.00	8.00	12.70	6.40	5.68	29.00
31		14.00	8.00	12.70	7.52	5.68	30.00
		14.00		12.70	7.52		31.00
TOTAL							
	0.00	132.12	360.20	308.82	339.44	196.00	
YEARLY C.F.S.			1336.58				
YEARLY ACRE FEET			2646.43				
TOTAL NO. OF DAYS			134.00				
YEARLY MEAN			9.97				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		FLOOD	CANAL NUMBER 64				1992.00
OWNER	Y-3 RANCH						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2		6.40	6.98				1.00
3	8.00	6.40	6.98				2.00
4	8.00	6.40	6.98				3.00
5	8.00	6.40	6.98				4.00
6	8.00	7.00	6.98				5.00
7	8.00	7.00	6.68				6.00
8	5.68	7.80	6.68				7.00
9	5.68	7.80	6.68				8.00
10	5.68	8.04					9.00
11	5.68	8.04					10.00
12	5.68	8.04					11.00
13	5.68	7.52					12.00
14	5.68	7.52					13.00
15	5.68	6.96					14.00
16	5.68	6.96					15.00
17	5.68	6.69					16.00
18	5.68	6.69					17.00
19	5.68	6.69					18.00
20	5.68	6.69					19.00
21	5.68	6.69					20.00
22	5.68	6.69					21.00
23	5.68	6.69					22.00
24	5.68	6.69					23.00
25	5.68	6.69					24.00
26	4.00	6.69					25.00
27	4.00	6.69					26.00
28	4.00	6.69					27.00
29	6.40	6.69					28.00
30	6.40	6.69					29.00
31	6.40	6.98					30.00
		6.98					31.00
TOTAL							
	173.44	215.90	54.94	0.00	0.00	0.00	
YEARLY C.F.S.			444.28				
YEARLY ACRE FEET			879.67				
TOTAL NO. OF DAYS			68.00				
YEARLY MEAN			6.53				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		GILLIHAN	CANAL NUMBER 11				1993.00
OWNER	EE AMARAL						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			8.60	1.00	1.00	4.30	1.00
3			8.60	1.00	1.00	4.30	2.00
4			8.60	1.00	1.00	4.30	3.00
5			8.60	1.00	1.00	4.30	4.00
6			8.60	1.00	1.00	4.30	5.00
7			8.60	1.00	1.00	4.30	6.00
8		5.60	8.60	1.00	1.00	4.30	7.00
9		5.60	8.60	1.00	1.00	4.30	8.00
10		5.60	8.60	1.00	1.00	4.30	9.00
11		8.60	8.60	1.00	1.00	4.30	10.00
12		8.60	8.60	1.00	1.00	4.30	11.00
13		8.60	8.60	1.00	1.00	4.30	12.00
14		8.60	8.60	1.00	1.00	4.30	13.00
15		8.60	8.60	1.00	1.00	4.30	14.00
16		8.60	8.60	1.00	1.00	4.30	15.00
17		8.60	8.60	1.00	1.00	4.30	16.00
18		8.60	8.60	1.00	1.00	4.30	17.00
19		8.60	8.60	1.00	1.00	4.30	18.00
20		8.60	8.60	1.00	1.00	4.30	19.00
21		8.60	8.60	1.00	1.00	4.30	20.00
22		8.60	8.60	1.00	1.00	4.30	21.00
23		8.60	8.60	1.00	1.00	4.30	22.00
24		8.60	8.60	1.00	1.00	4.30	23.00
25		8.60	8.60	1.00	1.00	4.30	24.00
26		8.60	8.60	1.00	2.30	4.30	25.00
27		8.60	8.60	1.00	2.30	4.30	26.00
28		8.60	8.60	1.00	4.30	4.30	27.00
29		8.60	7.60	1.00	4.30	4.30	28.00
30		8.60	7.60	1.00	4.30	4.30	29.00
31		8.60	1.00	1.00	4.30	4.30	30.00
		8.60		1.00	4.30		31.00
TOTAL							
	0.00	206.00	248.40	31.00	50.10	129.00	
YEARLY C.F.S.			664.50				
YEARLY ACRE FEET			1315.71				
TOTAL NO. OF DAYS			147.00				
YEARLY MEAN			4.52				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		GILLIHAN	CANAL NUMBER 11				1993.00
OWNER		FISH & GAME	USER:PICABO LIVESTOCK				
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			4.14	3.00	5.50	6.00	1.00
3			4.14	3.00	5.50	6.00	2.00
4			4.14	3.00	5.50	6.00	3.00
5			4.14	3.00		6.00	4.00
6			4.14	7.00		6.00	5.00
7				7.00		6.00	6.00
8				10.00		6.00	7.00
9				10.00		6.00	8.00
10				10.00		6.00	9.00
11				10.00		6.00	10.00
12			3.00	10.00		6.00	11.00
13		4.14	3.00	10.00		6.00	12.00
14		4.14	3.00	10.00		6.00	13.00
15		4.14		8.02		6.00	14.00
16		4.14		8.02		6.00	15.00
17		4.14		8.02	6.00	6.00	16.00
18		4.14		8.02	6.00	6.00	17.00
19		4.14		8.02	6.00	6.00	18.00
20		4.14		9.28	6.00	6.00	19.00
21		4.14		9.28	6.00	6.00	20.00
22		4.14	3.00	7.35	6.00	6.00	21.00
23		4.14	3.00	7.35	6.00	6.00	22.00
24		4.14	3.00	7.35	6.00	6.00	23.00
25		4.14	3.00	7.35	6.00	6.00	24.00
26		4.14	3.00	7.35	6.00	6.00	25.00
27		4.14	3.00	7.35	6.00	6.00	26.00
28		4.14	3.00	7.35	6.00	2.20	27.00
29		4.14	3.00	7.35	6.00	2.20	28.00
30		4.14	3.00	7.35	6.00	2.20	29.00
31		4.14	3.00	5.50	6.00	2.20	30.00
		4.14		5.50	6.00		31.00
TOTAL							
	0.00	82.80	59.70	231.81	112.50	164.80	
YEARLY C.F.S.			651.61				
YEARLY ACRE FEET			1290.19				
TOTAL NO. OF DAYS			118.00				
YEARLY MEAN			5.52				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		GLENDALE	CANAL NUMBER 50				1993.00
OWNER	VARIOUS						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			20.32	35.28	46.40	20.32	1.00
3			20.32	35.28	46.40	20.32	2.00
4			16.40	38.60	37.76	20.32	3.00
5			16.40	38.60	37.76	17.04	4.00
6			13.36	38.60	37.76	17.04	5.00
7			13.36	35.28	37.76	17.04	6.00
8			13.36	35.28	35.28	13.96	7.00
9			20.32	35.28	35.28	13.96	8.00
10			20.32	35.28	35.28	12.76	9.00
11			19.00	35.28	35.28	12.76	10.00
12			19.00	35.28	35.28	11.08	11.00
13			19.00	35.28	35.28	11.08	12.00
14		24.02	19.00	33.68	35.28	11.08	13.00
15		24.02	19.00	33.68	35.28	8.40	14.00
16		28.96	19.00	36.92	35.28	8.40	15.00
17		28.96	19.00	36.92	35.28	8.40	16.00
18		28.96	19.00	32.88	32.88	8.40	17.00
19		28.96	19.00	32.88	32.88	9.84	18.00
20		28.96	32.72	32.88	31.25	9.84	19.00
21		20.32	32.72	27.48	31.25	9.84	20.00
22		20.32	32.72	27.48	35.28	9.84	21.00
23		16.40	41.16	21.00	35.28	9.84	22.00
24		16.40	41.16	21.00	31.25	8.40	23.00
25		16.40	39.44	24.48	31.25	8.40	24.00
26		16.40	39.44	24.48	31.25	8.40	25.00
27		16.40	39.44	24.48	28.96	8.40	26.00
28		18.32	39.44	15.92	28.96	8.40	27.00
29		18.32	39.44	15.92	26.00	7.92	28.00
30		20.32	37.76	46.40	26.00	7.92	29.00
31		20.32	37.76	46.40	23.80	6.96	30.00
		20.32		46.40	23.80		31.00
TOTAL							
	0.00	413.08	778.36	1014.60	1046.73	346.36	
YEARLY C.F.S.			3599.13				
YEARLY ACRE FEET			7126.28				
TOTAL NO. OF DAYS			141.00				
YEARLY MEAN			25.53				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		GRAFF	CANAL NUMBER 62			1993.00	
OWNER	WOODRIVER RANCHES						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			14.00	14.00	14.00	12.00	1.00
3			14.00	14.00	14.00	4.00	2.00
4			14.00	12.70	14.00	4.00	3.00
5			14.00	12.70	14.00	4.00	4.00
6			14.00	12.70	14.00	4.00	5.00
7			14.00	12.70	14.00	4.00	6.00
8			14.00	12.70	12.70	4.00	7.00
9			14.00	12.70	12.70	4.00	8.00
10			14.00	12.70	12.70	4.00	9.00
11			14.00	12.70	12.70	4.00	10.00
12			14.00	12.70	12.70	4.00	11.00
13			14.00	12.70	12.70	4.00	12.00
14		12.70	14.00	12.70	12.70	4.00	13.00
15		12.70	14.00	12.70	12.70	4.00	14.00
16		16.00	14.00	12.70	12.70	4.00	15.00
17		16.00	14.00	12.70	12.70	4.00	16.00
18		16.00	14.00	14.00	12.00	4.00	17.00
19		16.00	14.00	14.00	12.00	4.00	18.00
20		16.00	14.00	14.00	12.70	4.00	19.00
21		14.00	14.00	14.00	12.70	4.00	20.00
22		14.00	14.00	14.00		4.00	21.00
23		14.00	14.00	14.00		4.00	22.00
24		14.00	14.00	14.00		3.48	23.00
25		14.00	14.00	14.00		3.48	24.00
26		14.00	14.00	14.00		3.48	25.00
27		14.00	14.00	14.00	12.70	3.48	26.00
28		14.00	14.00	14.00	12.70	3.48	27.00
29		14.00	14.00	14.00	12.00		28.00
30		14.00	14.00	14.00	12.00		29.00
31		14.00	14.00	14.00	12.00	8.04	30.00
		14.00		14.00	12.00		31.00
TOTAL							
	0.00	273.40	420.00	415.80	333.80	121.44	
YEARLY C.F.S.			1564.44				
YEARLY ACRE FEET			3097.59				
TOTAL NO. OF DAYS			134.00				
YEARLY MEAN			11.67				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		MAN	CANAL NUMBER 19-P1				1993.00
OWNER	TICK-TOCK						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2							1.00
3					2.60		2.00
4					2.60		3.00
5					2.60		4.00
6							5.00
7							6.00
8							7.00
9						1.50	8.00
10						1.50	9.00
11						1.50	10.00
12						1.50	11.00
13						1.50	12.00
14						4.00	13.00
15						4.00	14.00
16						4.00	15.00
17				2.40	2.70	4.00	16.00
18				2.40	2.70		17.00
19				2.40	4.30		18.00
20				2.50	4.30		19.00
21				2.50			20.00
22							21.00
23							22.00
24				2.50	4.10		23.00
25				2.50	4.10		24.00
26							25.00
27							26.00
28					1.50		27.00
29					1.50		28.00
30					1.50		29.00
31					4.00		30.00
					4.00		31.00
TOTAL							
	0.00	0.00	0.00	17.20	42.50	23.50	
YEARLY C.F.S.			83.20				
YEARLY ACRE FEET			164.74				
TOTAL NO. OF DAYS			30.00				
YEARLY MEAN			2.77				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		MANTEY	CANAL NUMBER 14-P				1993.00
OWNER	ROBERT GARDNER						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2					1.08	1.46	1.00
3					1.40	1.46	2.00
4					1.40	1.48	3.00
5					1.40	1.48	4.00
6					1.40	1.48	5.00
7					1.64	1.48	6.00
8					1.64	1.48	7.00
9					1.64		8.00
10					1.42		9.00
11					1.42		10.00
12					1.42		11.00
13				0.88	1.42		12.00
14				0.88	1.48		13.00
15				1.22	1.48		14.00
16				1.22	1.48		15.00
17				0.86			16.00
18				0.86			17.00
19				0.86			18.00
20				1.28			19.00
21				1.28	1.42		20.00
22		1.64			1.42		21.00
23		1.64			1.42		22.00
24		1.64			1.42		23.00
25		1.64			1.42		24.00
26		1.64			1.46		25.00
27					1.46		26.00
28					1.40		27.00
29		0.60		1.44	1.40		28.00
30		0.60		1.44	1.40	1.48	29.00
31		0.60		1.08		1.48	30.00
		0.60		1.08			31.00
TOTAL							
	0.00	10.60	0.00	14.38	35.94	13.28	
YEARLY C.F.S.			74.20				
YEARLY ACRE FEET			146.92				
TOTAL NO. OF DAYS			56.00				
YEARLY MEAN			1.33				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		MARTIN	CANAL NUMBER 72				1993.00
OWNER	M. WESTON & J. SCOTT						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			4.50	1.00	1.00	1.00	1.00
3			4.50	1.00	1.00	1.00	2.00
4			4.50	5.02	5.63	1.00	3.00
5			4.50	5.02	5.63	1.00	4.00
6			4.50	5.02	6.58	1.00	5.00
7			4.50	5.02	6.58	1.00	6.00
8			4.50	5.02	1.00	1.00	7.00
9			4.50	5.02	1.00	1.00	8.00
10			1.00	5.02	1.00	1.00	9.00
11			1.00	1.00	5.63	1.00	10.00
12			1.00	1.00	5.63	1.00	11.00
13			1.00	5.02	5.63	1.00	12.00
14		1.00	1.00	5.02	5.63	1.00	13.00
15		1.00	1.00	5.02	5.63	1.00	14.00
16		1.00	1.00	5.02	5.63	1.00	15.00
17		1.00	1.00	5.02	5.63	1.00	16.00
18		1.00	1.00	5.02	1.00	1.00	17.00
19		1.00	1.00	5.02	1.00	1.00	18.00
20		1.00	1.00	5.02	1.00	1.00	19.00
21		1.00	1.00	1.00	1.00	1.00	20.00
22		1.00	1.00	1.00	5.02	5.04	21.00
23		1.00	1.00	1.00	5.02	5.04	22.00
24		1.00	1.00	1.00	5.02	5.04	23.00
25		1.00	1.00	5.63	5.02	5.04	24.00
26		1.00	1.00	5.63	5.02	1.00	25.00
27		1.00	1.00	5.63	1.00	1.00	26.00
28		1.00	1.00	5.63	1.00	1.00	27.00
29		1.00	1.00	5.63	1.00	1.00	28.00
30		1.00	1.00	1.00	1.00	1.00	29.00
31		1.00	1.00	1.00	1.00		30.00
		1.00		1.00	1.00		31.00
TOTAL							
	0.00	19.00	58.00	114.45	103.93	45.16	
YEARLY C.F.S.			340.54				
YEARLY ACRE FEET			674.27				
TOTAL NO. OF DAYS			140.00				
YEARLY MEAN			2.43				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		MAX	CANAL NUMBER 12				1993.00
OWNER	W MOLYNEUX						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			0.25	1.60	1.39	1.39	1.00
3			0.25	1.60	1.39	1.39	2.00
4			0.25	1.60	1.39	1.39	3.00
5			0.25	1.60	1.39	1.39	4.00
6			0.25	1.60	1.39	1.39	5.00
7			0.25	1.60	1.39	1.39	6.00
8			2.32	1.60	1.39	1.39	7.00
9			2.32	1.60	1.39	1.39	8.00
10			2.32	0.39	1.39	1.39	9.00
11			2.32	0.39	1.39	1.39	10.00
12			2.32	0.39	1.39	1.39	11.00
13			2.32	0.39	1.39	1.39	12.00
14			2.32	0.39	1.39	1.39	13.00
15			2.32	1.39	1.39	1.39	14.00
16			2.32	1.39	1.39	1.39	15.00
17			2.32	1.39	1.39	1.39	16.00
18			2.32	1.39	1.39	1.39	17.00
19			2.32	1.39	1.39	1.39	18.00
20			2.32	1.39	1.39	1.39	19.00
21			2.32	1.39	1.39	1.39	20.00
22			2.32	1.39	1.39	1.39	21.00
23			2.32	1.39	1.39	1.39	22.00
24			2.32	1.39	1.39	1.39	23.00
25			2.32	1.39	1.39	1.39	24.00
26			2.32	1.39	1.39	1.39	25.00
27			2.32	1.39	1.39	1.39	26.00
28			2.32	1.39	1.39	1.39	27.00
29		0.25	2.32	1.39	1.39	1.39	28.00
30		0.25	2.32	1.39	1.39	1.39	29.00
31		0.25	1.60	1.39	1.39	1.39	30.00
		0.25		1.39	1.39		31.00
TOTAL							
	0.00	1.00	56.46	39.77	43.09	41.70	
YEARLY C.F.S.			182.02				
YEARLY ACRE FEET			360.40				
TOTAL NO. OF DAYS			126.00				
YEARLY MEAN			1.44				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		MILL	CANAL NUMBER 16-P				1993.00
OWNER	PAT MILLINGTON						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			6.00	7.12	7.82	7.80	1.00
3			6.00	7.12	7.90	7.80	2.00
4			6.00	7.12	7.90	7.70	3.00
5			7.00	7.12	7.90	7.70	4.00
6			7.00	7.12	7.90	7.70	5.00
7			7.00	7.12	7.66	7.70	6.00
8			7.02	7.12	7.66	7.70	7.00
9			7.02	7.12	7.66	7.70	8.00
10				7.12	7.70	7.70	9.00
11				7.12	7.70	7.70	10.00
12				7.12		7.70	11.00
13				7.12		7.70	12.00
14				7.12			13.00
15				7.12			14.00
16				7.12			15.00
17				7.12			16.00
18				7.12			17.00
19			7.00	7.12			18.00
20		7.00	7.00	7.12			19.00
21		7.00	7.00	7.12			20.00
22		7.00	7.00	7.12			21.00
23		7.00	7.00	7.12	7.82		22.00
24		7.00	7.12	7.90	7.82		23.00
25		6.00	7.12	7.90	7.82		24.00
26		6.00	7.12	7.90	7.56		25.00
27		6.00	7.12	7.90	7.56		26.00
28		6.00	7.12	7.90	7.80		27.00
29		6.00	7.12	7.82	7.80		28.00
30		6.00	7.12	7.82	7.80		29.00
31		6.00	7.12	7.82	7.66		30.00
		6.00		7.82	7.66		31.00
TOTAL							
	0.00	83.00	145.00	227.42	155.10	92.60	
YEARLY C.F.S.			703.12				
YEARLY ACRE FEET			1392.18				
TOTAL NO. OF DAYS			97.00				
YEARLY MEAN			7.25				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		CSV PUMP	CANAL NUMBER 00P8				1993.00
OWNER	NATURE CONSERVANCY						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2							1.00
3							2.00
4							3.00
5							4.00
6							5.00
7							6.00
8							7.00
9				0.60			8.00
10				0.60			9.00
11				0.60			10.00
12				0.60			11.00
13				0.60			12.00
14				0.60			13.00
15				0.60			14.00
16				0.60			15.00
17							16.00
18							17.00
19							18.00
20							19.00
21							20.00
22							21.00
23							22.00
24							23.00
25							24.00
26							25.00
27							26.00
28							27.00
29							28.00
30							29.00
31							30.00
							31.00
TOTAL							
MEAN	0.00	0.00	0.00	4.80	0.00	0.00	
A. F.							
	0.00	0.00	0.00	9.50	0.00	0.00	
YEARLY C.F.S.			4.80				
YEARLY ACRE FEET			9.50				
TOTAL NO. OF DAYS			8.00				
YEARLY MEAN			0.60				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		NEIDER	CANAL NUMBER 23-P				1993.00
OWNER	C & Y RANCHES						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			1.10		0.80	0.70	1.00
3			1.10	1.10	0.75	0.70	2.00
4			1.10	1.10	0.75	0.70	3.00
5				1.10	0.75	0.70	4.00
6				1.10	0.75	0.70	5.00
7				1.10	0.70	0.75	6.00
8				1.10	0.70	0.75	7.00
9				1.10	0.70	0.75	8.00
10				1.10	0.70	0.75	9.00
11				1.10	0.70	0.75	10.00
12				1.20	0.70	0.75	11.00
13				1.20	0.70	0.75	12.00
14				1.20	0.70	0.75	13.00
15		1.30		1.10	0.70	0.75	14.00
16		1.30		1.10	0.70	0.75	15.00
17		1.30	0.90	1.10	0.70	0.75	16.00
18		1.10	0.90		0.70	0.75	17.00
19		1.10	0.90		0.70	0.75	18.00
20		1.10	0.90	0.85	0.70	0.75	19.00
21		1.10	0.90	0.85	0.70	0.75	20.00
22		0.80	0.90	0.90	0.70	0.75	21.00
23		0.80	0.90	0.90	0.70	0.75	22.00
24		0.80	1.10	0.90	0.70	0.75	23.00
25		0.80	1.10	0.90	0.70	0.75	24.00
26		0.80	1.10	0.90	0.70	0.75	25.00
27		1.10	1.10	0.90	0.70	0.75	26.00
28		1.10	1.10	0.90	0.70	0.75	27.00
29		1.10	1.10	0.90	0.70	0.75	28.00
30		1.10	1.10	0.90	0.70	0.75	29.00
31		1.10	1.10	0.80	0.70	0.75	30.00
		1.10		0.80	0.70		31.00
TOTAL							
	0.00	18.90	18.40	28.20	22.00	22.25	
YEARLY C.F.S.			109.75				
YEARLY ACRE FEET			217.31				
TOTAL NO. OF DAYS			125.00				
YEARLY MEAN			0.88				

WATER DISTRICT #37 & 37-M							
CANAL NAME	O DRAIN		CANAL NUMBER 18				1993.00
OWNER	PICABO LIVESTOCK						
DATE	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1			5.30	6.77	16.37	9.62	1.00
2			12.16	15.11	10.71	9.62	2.00
3		1.48	12.16	15.11	10.71	9.62	3.00
4		1.48	13.00	15.11	10.08	9.62	4.00
5		1.56	13.00	16.94	10.08	9.62	5.00
6		1.56	13.00	16.94	12.33	9.62	6.00
7		2.91	30.20	16.94	12.33	9.62	7.00
8		2.91	30.20	16.94	12.33	10.71	8.00
9		2.91	19.32	15.82	22.96	10.71	9.00
10		3.96	19.32	15.82	22.96	11.68	10.00
11		3.96	20.49	15.82	15.82	11.68	11.00
12		2.60	20.49	10.40	15.82	11.68	12.00
13		2.60	20.49	10.40	21.60	14.56	13.00
14		4.50	17.89	5.86	21.60	14.56	14.00
15		4.50	17.89	5.86	21.60	14.56	15.00
16		4.50	16.94	5.36	20.64	14.56	16.00
17		6.24	16.94	5.36	20.64	15.11	17.00
18		6.24	14.04	5.36	24.20	15.11	18.00
19		4.18	14.04	8.73	24.20	15.11	19.00
20		4.18	14.04	8.73	20.26	20.98	20.00
21		3.74	4.41	9.48	20.26	20.98	21.00
22		3.74	4.41	9.48	20.26	23.18	22.00
23		3.74	7.87	10.08	18.92	23.18	23.00
24		4.50	7.87	10.08	18.92	20.06	24.00
25		4.50	7.87	10.08	16.37	20.06	25.00
26		6.50	7.87	23.18	16.37	20.06	26.00
27		6.50	7.87	23.18	17.13	24.80	27.00
28		6.50	6.90	17.31	17.13	24.80	28.00
29		6.50	6.90	17.31	17.13	26.88	29.00
30		6.50	6.77	16.37	13.69	26.88	30.00
31		5.30		16.37	13.69		31.00
TOTAL	0.00	120.29	409.65	396.30	537.11	479.23	
YEARLY C.F.S.			1942.58				
YEARLY ACRE FEET			3846.31				
TOTAL NO. OF DAYS			151.00				
YEARLY MEAN			12.86				

	WATER DISTRICT #37 & 37-M						
CANAL NAME	OSTERHOUSE		CANAL NUMBER 31				1993.00
OWNER	HARRY RINKER						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2		5.00	5.00		2.74	2.74	1.00
3		5.00	5.00	2.80	2.74	2.74	2.00
4		4.80	5.00	2.80	2.74	2.74	3.00
5		4.80	5.00	2.80	2.74	2.74	4.00
6			5.00	2.80	2.74	2.74	5.00
7				2.80	2.74	2.74	6.00
8				2.74	2.74	2.74	7.00
9				2.74	2.74	2.74	8.00
10				2.74		2.74	9.00
11				2.74		2.74	10.00
12				2.74	2.74	2.74	11.00
13				2.74	2.74	2.74	12.00
14				2.74	2.74	2.74	13.00
15		4.41		2.74	2.74	2.74	14.00
16		4.41		2.74	2.74	2.74	15.00
17		4.41		2.74	2.74	2.74	16.00
18		5.00		2.74	2.74	2.74	17.00
19		5.00		2.74	2.74	2.74	18.00
20		5.00		2.74	2.74	2.74	19.00
21		5.00		2.74	2.74		20.00
22		5.00		2.74	2.74		21.00
23		5.00		2.74	2.74		22.00
24		5.00		2.74	2.74		23.00
25		5.00		2.74	2.74		24.00
26		5.00		2.74	2.74		25.00
27		5.00		2.74	2.74		26.00
28		5.00		2.74	2.74		27.00
29		5.00		2.74	2.74		28.00
30		5.00		2.74	2.74		29.00
31	5.00	5.00		2.74	2.74		30.00
		5.00		2.74	2.74		31.00
TOTAL							
	5.00	107.83	25.00	82.50	79.46	52.06	
YEARLY C.F.S.			351.85				
YEARLY ACRE FEET			696.66				
TOTAL NO. OF DAYS			106.00				
YEARLY MEAN			3.32				

	WATER DISTRICT #37 & 37-M						
CANAL NAME	PATTERSON		CANAL NUMBER 15 A				1993.00
OWNER	FISH & GAME						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2	12.81	10.04	11.89	15.98	12.15	11.76	1.00
3	12.81	10.40	11.00	14.66	12.15	11.76	2.00
4	12.81	11.00	11.00	14.66	12.15	11.60	3.00
5	12.81	11.00	11.40	14.66	12.15	11.60	4.00
6	13.69	11.50	11.40	14.66	12.15	11.60	5.00
7	13.69	11.50	11.40	14.66	13.12	12.31	6.00
8	12.81	11.00	14.21	13.00	13.12	12.31	7.00
9	12.81	11.00	14.21	13.00	12.15	12.31	8.00
10	12.81	11.00	15.98	13.00	12.15	12.31	9.00
11	12.81	11.00	15.98	13.00	12.15	11.66	10.00
12	12.81	11.00	15.98	13.00	13.24	11.66	11.00
13	11.86	10.36	15.98	13.00	13.24	11.66	12.00
14	11.86	10.36	15.98	13.00	13.24	12.31	13.00
15	10.93	11.00	15.98	12.71	13.24	12.31	14.00
16	10.93	11.00	15.98	13.21	13.24	12.31	15.00
17	10.93	11.00	15.98	13.00	13.24	12.31	16.00
18	10.93	10.36	15.98	13.00	13.24	12.31	17.00
19	10.93	10.36	15.98	13.00	13.24	12.31	18.00
20	10.93	11.00	15.98	13.00	13.24	12.31	19.00
21	10.93	11.00	15.98	13.00	13.24	12.31	20.00
22	10.93	11.00	15.98	12.15	13.24	12.31	21.00
23	10.93	11.00	15.98	12.15	13.24	12.31	22.00
24	10.04	11.89	15.98	14.21	13.63	11.66	23.00
25	10.04	11.89	15.98	14.21	13.63	10.28	24.00
26	10.04	11.89	14.66	14.21	13.63	10.28	25.00
27	10.04	12.70	14.66	14.21	13.63	10.28	26.00
28	10.04	12.70	14.66	14.21	12.43	11.66	27.00
29	10.04	12.70	13.28	12.15	12.43	11.66	28.00
30	10.04	12.70	13.28	12.15	12.43	11.66	29.00
31	10.04	12.70	15.98	12.15	12.43	11.66	30.00
		11.89		12.15	12.43		31.00
TOTAL							
	345.08	349.94	438.71	415.15	398.99	354.78	
YEARLY C.F.S.			2302.65				
YEARLY ACRE FEET			4559.25				
TOTAL NO. OF DAYS			183.00				
YEARLY MEAN			12.58				

	WATER DISTRICT #37 & 37-M						
CANAL NAME	PATTEN CREEK PUMP CANAL NUMBER 00P3						1993.00
OWNER	JOHN STEVENSON FROM LUCKE WELL						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			1.20				1.00
3			1.20				2.00
4			1.20				3.00
5			1.20				4.00
6			1.20				5.00
7			1.20				6.00
8			1.20				7.00
9			1.20				8.00
10			1.20				9.00
11			1.20				10.00
12			1.20				11.00
13			1.20				12.00
14			1.20				13.00
15			1.20				14.00
16			1.20				15.00
17			1.20				16.00
18			1.20				17.00
19			1.20				18.00
20			1.20				19.00
21			1.20				20.00
22			1.20				21.00
23			1.20				22.00
24			1.20				23.00
25			1.20				24.00
26			1.20				25.00
27			1.20				26.00
28			1.20				27.00
29			1.20				28.00
30			1.20				29.00
31			1.20				30.00
							31.00
TOTAL							
	0.00	0.00	36.00	0.00	0.00	0.00	
YEARLY C.F.S.			36.00				
YEARLY ACRE FEET			71.28				
TOTAL NO. OF DAYS			30.00				
YEARLY MEAN			1.20				

	WATER DISTRICT #37 & 37-M						
CANAL NAME	PATTERSON		CANAL NUMBER 15				1993.00
OWNER	W. MOLYNEUX						
DATE							
2	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
3			1.69	1.69	1.69	1.69	2.00
4			1.69	1.69	1.69	1.69	3.00
5			1.69	1.69	1.69	1.69	4.00
6			1.69	1.69	1.69	1.69	5.00
7			1.69	1.69	1.69	1.69	6.00
8		0.40	1.69	1.69	1.69	1.69	7.00
9		0.40	1.69	1.69	1.69	1.69	8.00
10		0.40	1.69	1.69	1.69	1.69	9.00
11		0.40	1.69	1.69	1.69	1.69	10.00
12		0.40	1.69	1.69	1.69	1.69	11.00
13		0.40	1.69	1.69	1.69	1.69	12.00
14		0.40	1.69	1.69	1.69	1.69	13.00
15		0.40	1.69	1.69	1.69	1.69	14.00
16		0.40	1.69	1.69	1.69	1.69	15.00
17		0.40	1.69	1.69	1.69	1.69	16.00
18		0.40	1.69	1.69	1.69	1.69	17.00
19		0.40	1.69	1.69	1.69	1.69	18.00
20		0.40	1.69	1.69	1.69	1.69	19.00
21		0.40	1.69	1.69	1.69	1.69	20.00
22		0.40	1.69	1.69	1.69	1.69	21.00
23		0.40	1.69	1.69	1.69	1.69	22.00
24		0.40	1.69	1.69	1.69	1.69	23.00
25		0.40	1.69	1.69	1.69	1.69	24.00
26		0.40	1.69	1.69	1.69	1.69	25.00
27		0.40	1.69	1.69	1.69	1.69	26.00
28		0.40	1.69	1.69	1.69	1.69	27.00
29		1.69	1.69	1.69	1.69	1.69	28.00
30		1.69	1.69	1.69	1.69	1.69	29.00
31		1.69	1.69	1.69	1.69	1.69	30.00
		1.69		1.69	1.69		31.00
TOTAL							
	0.00	15.16	49.01	50.70	50.70	49.01	
YEARLY C.F.S.			214.58				
YEARLY ACRE FEET			424.87				
TOTAL NO. OF DAYS			143.00				
YEARLY MEAN			1.50				

	WATER DISTRICT #37 & 37-M						
CANAL NAME	PRINZ WELL		CANAL NUMBER 00P-6				1993.00
OWNER	50% NATURE CONSERVANCY			35% R GARDNER 15% STINSON			
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2					2.24	2.24	1.00
3				4.20	2.24	2.24	2.00
4				4.20	2.24	2.24	3.00
5				4.20	2.24	2.24	4.00
6				4.20	2.24	2.24	5.00
7				4.20	2.24	2.24	6.00
8				4.20	2.24	2.24	7.00
9				4.20	2.24	2.24	8.00
10				4.20	2.24	2.24	9.00
11				4.20	2.24	2.24	10.00
12				4.20	2.24	2.24	11.00
13				4.20	2.24	2.24	12.00
14				4.20	2.24	2.24	13.00
15				4.20	2.24	2.24	14.00
16				4.20	2.24	2.24	15.00
17				4.20	2.24	2.24	16.00
18				4.20	2.24	2.24	17.00
19				4.20	2.24	2.24	18.00
20				2.24	2.24	2.24	19.00
21				2.24	2.24	2.24	20.00
22				2.24	2.24	2.24	21.00
23				2.24	2.24	2.24	22.00
24				2.24	2.24	2.24	23.00
25				2.24	2.24		24.00
26				2.24	2.24		25.00
27		2.79		2.24	2.24		26.00
28		2.79		2.24	2.24		27.00
29				2.24	2.24		28.00
30				2.24	2.24		29.00
31				2.24	2.24		30.00
				2.24	2.24		31.00
TOTAL							
	0.00	5.58	0.00	100.52	69.44	51.52	
YEARLY C.F.S.			227.06				
YEARLY ACRE FEET			449.58				
TOTAL NO. OF DAYS			86.00				
YEARLY MEAN			2.64				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		PUGEL	CANAL NUMBER 75				1993.00
OWNER	EDITH FREDRICKSON						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2							1.00
3							2.00
4					1.00		3.00
5					1.00		4.00
6					1.00		5.00
7					1.00		6.00
8					1.00		7.00
9					1.00		8.00
10			4.00		1.00		9.00
11			4.00		1.00		10.00
12			4.00		1.00		11.00
13			4.00				12.00
14							13.00
15							14.00
16							15.00
17							16.00
18							17.00
19							18.00
20							19.00
21							20.00
22							21.00
23							22.00
24							23.00
25							24.00
26							25.00
27							26.00
28							27.00
29							28.00
30							29.00
31							30.00
							31.00
TOTAL							
	0.00	0.00	16.00	0.00	9.00	0.00	
YEARLY C.F.S.			25.00				
YEARLY ACRE FEET			49.50				
TOTAL NO. OF DAYS			13.00				
YEARLY MEAN			1.92				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		PUGEL		CANAL NUMB	ER 75-P		1993.00
OWNER	GERTRUDE PEET						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2					1.33		1.00
3					1.33		2.00
4							3.00
5							4.00
6					1.33		5.00
7					1.33		6.00
8					1.33	1.33	7.00
9					1.33	1.33	8.00
10					1.33	1.33	9.00
11				2.00	1.33	1.33	10.00
12				2.00	1.33	1.33	11.00
13				2.00	1.00	1.33	12.00
14				2.00	1.00	1.33	13.00
15				2.00			14.00
16							15.00
17							16.00
18							17.00
19							18.00
20							19.00
21				1.12			20.00
22				1.12			21.00
23				1.33			22.00
24				1.33			23.00
25				1.33			24.00
26				1.33			25.00
27				1.33			26.00
28				1.33			27.00
29				1.33			28.00
30				1.33			29.00
31				1.33			30.00
				1.33			31.00
TOTAL							
	0.00	0.00	0.00	25.54	13.97	9.31	
YEARLY C.F.S.			48.82				
YEARLY ACRE FEET			96.66				
TOTAL NO. OF DAYS			35.00				
YEARLY MEAN			1.39				

	WATER DISTRICT #37 & 37-M						1993.00
CANAL NAME		PUGEL	CANAL NUMBER 75				
OWNER	ELLYN SUE RAGONE						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2			3.12				1.00
3			3.12				2.00
4			3.12				3.00
5			3.12				4.00
6			3.12				5.00
7			3.12				6.00
8			3.12				7.00
9			3.12				8.00
10			3.12				9.00
11			3.12				10.00
12			3.12				11.00
13			3.12				12.00
14			3.12				13.00
15			3.12				14.00
16			3.12				15.00
17			3.12				16.00
18			3.12				17.00
19			3.12				18.00
20			3.12				19.00
21			3.12				20.00
22			3.12				21.00
23			3.12				22.00
24			3.12				23.00
25							24.00
26							25.00
27							26.00
28							27.00
29							28.00
30							29.00
31							30.00
							31.00
TOTAL							
	0.00	0.00	71.76	0.00	0.00	0.00	
YEARLY C.F.S.			71.76				
YEARLY ACRE FEET			142.08				
TOTAL NO. OF DAYS			23.00				
YEARLY MEAN			3.12				

	WATER DISTRICT #37 & 37-M						
CANAL NAME	ROGERS WELL		CANAL NUMBER 000-0P				1993.00
OWNER	DEAN ROGERS		WATER FOR PUMP OUT OF CANE CREEK				
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2							1.00
3							2.00
4							3.00
5							4.00
6							5.00
7							6.00
8							7.00
9							8.00
10							9.00
11							10.00
12							11.00
13							12.00
14							13.00
15							14.00
16							15.00
17							16.00
18							17.00
19							18.00
20							19.00
21							20.00
22							21.00
23			2.40				22.00
24			2.40				23.00
25			2.40				24.00
26			2.40				25.00
27			2.40				26.00
28			2.40				27.00
29			2.40				28.00
30			2.40				29.00
31			2.40				30.00
							31.00
TOTAL							
	0.00	0.00	21.60	0.00	0.00	0.00	
YEARLY C.F.S.			21.60				
YEARLY ACRE FEET			42.77				
TOTAL NO. OF DAYS			9.00				
YEARLY MEAN			2.40				

	WATER DISTRICT #37 & 37-M						
CANAL NAME	STALKER CREEK PUMP CANAL NUMBER 00-P7						1993.00
OWNER	ROBERT GARDNER FROM PRINZ WELL						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2					1.08		1.00
3					1.08		2.00
4					1.08		3.00
5					1.08		4.00
6					1.08		5.00
7					1.14		6.00
8					1.14		7.00
9					1.14		8.00
10				0.90	1.06		9.00
11				0.90	1.06		10.00
12				0.90	1.02		11.00
13				0.64	1.02		12.00
14				0.64	1.22		13.00
15					1.22		14.00
16					1.22		15.00
17					1.14		16.00
18					1.14		17.00
19					1.14		18.00
20				1.14	1.14		19.00
21				1.14	1.14		20.00
22				0.48	1.04		21.00
23				0.48	1.04		22.00
24				0.76			23.00
25				0.76			24.00
26				0.76			25.00
27				1.14			26.00
28				1.14			27.00
29				1.12			28.00
30				1.12			29.00
31				1.08			30.00
				1.08			31.00
TOTAL							
	0.00	0.00	0.00	16.18	24.42	0.00	
YEARLY C.F.S.			40.60				
YEARLY ACRE FEET			80.39				
TOTAL NO. OF DAYS			40.00				
YEARLY MEAN			1.02				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		STANFIELD	CANAL NUMBER 13				1993.00
OWNER	ROBERT GARDNER						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			4.41	3.46	3.46	1.00	1.00
3			3.20	3.13	3.46	1.00	2.00
4			3.20	3.13	3.46	1.00	3.00
5			3.20	3.13	2.93	1.00	4.00
6			3.20	3.02	2.93	1.00	5.00
7			3.20	3.02	3.46	1.00	6.00
8			2.12	2.54	3.46	1.00	7.00
9			2.12	2.54	3.46	1.00	8.00
10			4.60	2.35	2.93	1.00	9.00
11			4.60	2.35	2.93	1.00	10.00
12			3.98	2.35	2.93	1.00	11.00
13			3.98	2.13	2.93	1.00	12.00
14			3.98	2.13	2.93	1.00	13.00
15			3.98	2.13	2.93	1.00	14.00
16			3.98	2.13	2.93	1.00	15.00
17			3.80	2.89	2.93	1.00	16.00
18			3.80	2.89	2.93	1.00	17.00
19			3.14	2.89	1.00	1.00	18.00
20			3.14	2.13	1.00	1.00	19.00
21			3.14	2.13	1.00	1.00	20.00
22			2.12	2.13	1.00	1.00	21.00
23			2.12	2.13	1.00	3.32	22.00
24			2.00	2.89	1.00	3.32	23.00
25		1.45	2.00	2.89	1.00	3.32	24.00
26		1.45	2.64	2.89	1.00	3.32	25.00
27		4.00	2.64	3.17	1.00	3.32	26.00
28		4.00	2.64	3.17	1.00	3.32	27.00
29		4.00	2.85	2.93	1.00	3.32	28.00
30		4.00	2.85	3.46	1.00	3.32	29.00
31		4.00	3.46	3.46	1.00	3.32	30.00
		4.41		3.46	1.00		31.00
TOTAL							
	0.00	27.31	96.09	85.05	66.99	50.88	
YEARLY C.F.S.			326.32				
YEARLY ACRE FEET			646.11				
TOTAL NO. OF DAYS			130.00				
YEARLY MEAN			2.51				

	WATER DISTRICT #37 & 37-M						
CANAL NAME	STEVE WELL		CANAL NUMBER 00-0P				1993.00
OWNER	JOHN STEVENSON		INTO BUHLER DRAIN FOR STEVENSON				
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			1.00	1.00			1.00
3			1.00	1.00			2.00
4			1.00	1.00			3.00
5			1.00	1.00			4.00
6			1.00	1.00			5.00
7			1.00	1.00			6.00
8			1.00	1.00			7.00
9			1.00	1.00			8.00
10			1.00	1.00			9.00
11			1.00	1.00			10.00
12			1.00	1.00			11.00
13			1.00	1.00			12.00
14		1.00	1.00	1.00			13.00
15		1.00	1.00	1.00			14.00
16		1.00	1.00	1.00			15.00
17		1.00	1.00	1.00			16.00
18		1.00	1.00	1.00			17.00
19		1.00	1.00	1.00			18.00
20		1.00	1.00	1.00			19.00
21		1.00	1.00				20.00
22		1.00	1.00				21.00
23		1.00	1.00				22.00
24		1.00	1.00				23.00
25		1.00	1.00				24.00
26		1.00	1.00				25.00
27		1.00	1.00				26.00
28		1.00	1.00				27.00
29		1.00	1.00				28.00
30		1.00	1.00				29.00
31		1.00	1.00				30.00
		1.00					31.00
TOTAL							
	0.00	19.00	30.00	19.00	0.00	0.00	
YEARLY C.F.S.			68.00				
YEARLY ACRE FEET			134.64				
TOTAL NO. OF DAYS			68.00				
YEARLY MEAN			1.00				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		SWAN	CANAL NUMBER 21				1993.00
OWNER	BILL SWANSON						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2							1.00
3							2.00
4							3.00
5							4.00
6							5.00
7							6.00
8							7.00
9							8.00
10							9.00
11							10.00
12							11.00
13							12.00
14							13.00
15							14.00
16							15.00
17							16.00
18							17.00
19							18.00
20							19.00
21							20.00
22							21.00
23						2.50	22.00
24						2.50	23.00
25						2.50	24.00
26						2.50	25.00
27						2.50	26.00
28						2.50	27.00
29						2.50	28.00
30						2.50	29.00
31						2.50	30.00
							31.00
TOTAL							
	0.00	0.00	0.00	0.00	0.00	22.50	
YEARLY C.F.S.			22.50				
YEARLY ACRE FEET			44.55				
TOTAL NO. OF DAYS			9.00				
YEARLY MEAN			2.50				

	WATER DISTRICT #37 & 37-M						
CANAL NAME	TEETER CANYON CANAL NUMBER 00-P5						1993.00
OWNER	JOHN STEVENSON FROM ARTESIAN WELL INTO PATTEN CREEK STEVE #2						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2					1.88		1.00
3				1.52	1.88		2.00
4				1.52	1.88		3.00
5				1.52	1.88		4.00
6				1.54	1.88		5.00
7				1.54	1.74		6.00
8				1.80	1.74		7.00
9				1.80	1.74		8.00
10				1.80	1.88		9.00
11				1.80	1.88		10.00
12				1.80			11.00
13				1.92			12.00
14				1.92			13.00
15				1.82			14.00
16				1.82			15.00
17				1.88			16.00
18				1.88			17.00
19				1.88			18.00
20				1.92			19.00
21				1.92			20.00
22				1.90			21.00
23				1.90			22.00
24			3.80	1.92			23.00
25			3.80	1.92			24.00
26			3.94	1.92			25.00
27			3.94	1.88			26.00
28			3.94	1.88			27.00
29			2.11	1.88			28.00
30			2.11	1.88			29.00
31				1.88			30.00
				1.88			31.00
TOTAL							
	0.00	0.00	23.64	54.44	18.38	0.00	
YEARLY C.F.S.			96.46				
YEARLY ACRE FEET			190.99				
TOTAL NO. OF DAYS			47.00				
YEARLY MEAN			2.05				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		TICK TOCK	CANAL NUMBER 16-P1				1993.00
OWNER	TICK TOCK		PICABO LIVESTOCK				
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2						6.90	1.00
3					9.10	6.90	2.00
4					9.10	6.90	3.00
5					7.00	6.90	4.00
6					7.00	6.90	5.00
7					7.00	6.90	6.00
8					7.00	6.90	7.00
9					7.00	6.90	8.00
10					7.00	6.90	9.00
11					7.00	6.90	10.00
12					7.00	6.90	11.00
13					7.00	6.90	12.00
14					7.00		13.00
15					7.00		14.00
16				9.00	7.00		15.00
17				9.00	7.00		16.00
18				9.00	7.00		17.00
19				9.00	9.00		18.00
20				9.00	9.00		19.00
21				9.00	6.90		20.00
22				9.10	6.90		21.00
23				9.10	6.90		22.00
24				9.10	6.90		23.00
25				9.10	6.90		24.00
26				9.10	6.90		25.00
27				9.10	6.90		26.00
28				9.10	6.90		27.00
29				9.10	6.90		28.00
30				9.10	6.90		29.00
31				9.10	6.90		30.00
				9.10	6.90		31.00
TOTAL							
	0.00	0.00	0.00	154.10	217.00	82.80	
YEARLY C.F.S.			453.90				
YEARLY ACRE FEET			898.72				
TOTAL NO. OF DAYS			59.00				
YEARLY MEAN			7.69				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		UHRIG	CANAL NUMBER 63				1993.00
OWNER	Y-3 RANCH						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2		4.00	2.84		6.02		1.00
3		4.00	2.84		6.02		2.00
4		4.00	2.84		6.02		3.00
5		4.00	2.84		6.02		4.00
6		4.00			6.02		5.00
7		4.00			6.02		6.00
8		4.00			6.02		7.00
9		4.00			6.02		8.00
10		4.00			6.02		9.00
11		4.00		5.60	6.02		10.00
12		4.00		5.60	6.02		11.00
13		4.00		5.60	5.22		12.00
14		2.84		5.60	5.22		13.00
15		2.84		5.60	5.22		14.00
16	6.36	2.84		5.60	5.22		15.00
17	6.36	2.84		5.60	5.22		16.00
18	6.36	2.84		5.64	5.22		17.00
19	6.36	2.84		5.64	5.22		18.00
20	6.36	2.84		5.64	5.22		19.00
21	6.36	2.84		5.64	5.22		20.00
22	6.36	2.84		5.64	5.22		21.00
23	6.36	2.84		5.64	5.22		22.00
24	6.36	2.84		5.64	5.22		23.00
25	6.98	2.84		6.74	5.22		24.00
26	6.98	2.84		6.74	5.22		25.00
27	6.98	2.84		6.74			26.00
28	6.98	2.84		6.02			27.00
29	6.98	2.84		6.02			28.00
30	4.00	2.84		6.02			29.00
31	4.00	2.84		6.02			30.00
		2.84		6.02			31.00
TOTAL							
	100.14	101.96	11.36	129.00	139.30	0.00	
YEARLY C.F.S.			481.76				
YEARLY ACRE FEET			953.88				
TOTAL NO. OF DAYS			98.00				
YEARLY MEAN			4.92				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		WILLIS	CANAL NUMBER 0001				1993.00
OWNER	JOHN STEVENSON						
DATE							
1	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
2			2.45	5.04		4.24	1.00
3			2.45	5.04	5.00	4.24	2.00
4			2.45	5.04	5.00	4.24	3.00
5			2.45	5.04	5.00	4.24	4.00
6			2.45	4.41	5.00	4.24	5.00
7			2.45	4.41	3.86	4.24	6.00
8				5.86	3.86	4.24	7.00
9				5.86	3.86	4.24	8.00
10				4.89	4.24	4.24	9.00
11				4.89	4.24	4.24	10.00
12				4.89	4.24	4.24	11.00
13				4.74	4.24	4.24	12.00
14				4.74	4.24	4.24	13.00
15				3.49	4.24	4.24	14.00
16				3.49	4.24	4.24	15.00
17				3.49	4.24	4.24	16.00
18				3.49	4.24	4.24	17.00
19			4.41	3.49	4.24	4.24	18.00
20			4.41	3.49	4.24	4.24	19.00
21			4.41	3.49	4.24	4.24	20.00
22			4.41	3.49	4.24	4.24	21.00
23			4.41	3.49	4.24	4.24	22.00
24			5.04	3.49	4.24	4.24	23.00
25			5.04	3.49	4.24	4.24	24.00
26			5.04	3.49	4.24	4.24	25.00
27			5.04	3.49	4.24	4.24	26.00
28			5.04	3.49	4.24	4.24	27.00
29		3.00	6.60	5.00	4.24	4.24	28.00
30		3.00	6.60	5.00	4.24	4.24	29.00
31		2.45	5.04	5.00	4.24	4.24	30.00
				5.00	4.24		31.00
TOTAL							
	0.00	8.45	80.19	133.71	129.10	127.20	
YEARLY C.F.S.			478.65				
YEARLY ACRE FEET			947.73				
TOTAL NO. OF DAYS			113.00				
YEARLY MEAN			4.24				

	WATER DISTRICT #37 & 37-M						
CANAL NAME	ALBERTSON		CANAL NUMBER 17				1993.00
OWNER	PICABO LIVESTOCK						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2			1.42	1.96	1.96	1.96	1.00
3			1.42	1.96	1.96	1.96	2.00
4			1.42	1.96	1.96	1.96	3.00
5			1.69	1.96	1.96	1.96	4.00
6			1.69	1.96	1.96	1.96	5.00
7			1.69	1.96	1.96	1.96	6.00
8			1.69	1.96	1.96	1.96	7.00
9			1.69	1.96	1.96	1.96	8.00
10			1.69	1.96	1.96	1.96	9.00
11			1.69	1.96	1.96	1.96	10.00
12			1.69	1.96	1.96	1.96	11.00
13		1.42	1.69	1.96	1.96	1.96	12.00
14		1.42	1.69	1.96	1.96	1.96	13.00
15		1.42	0.48	1.96	1.96	1.96	14.00
16		1.42	0.48	1.96	1.96	1.96	15.00
17		1.42	0.48	1.96	1.96	1.96	16.00
18		1.42	0.48	1.96	1.96	1.96	17.00
19		1.42	1.96	1.96	1.96	1.96	18.00
20		1.42	1.96	1.96	1.96	1.96	19.00
21		1.42	1.96	1.96	1.96	1.96	20.00
22		1.42	1.96	1.96	1.96	1.96	21.00
23		1.42	1.96	1.96	1.96	1.96	22.00
24		1.42	1.96	1.96	1.96	1.96	23.00
25		1.42	1.96	1.96	1.96	1.96	24.00
26		1.42	1.96	1.96	1.96	1.96	25.00
27		1.42	1.96	1.96	1.96	1.96	26.00
28		1.42	1.96	1.96	1.96	1.96	27.00
29		1.42	1.96	1.96	1.96	1.96	28.00
30		1.42	1.96	1.96	1.96	1.96	29.00
31		1.42	1.96	1.96	1.96	1.96	30.00
		1.42		1.96	1.96		31.00
TOTAL							
	0.00	28.40	48.56	60.76	60.76	58.80	
YEARLY C.F.S.			257.28				
YEARLY ACRE FEET			509.41				
TOTAL NO. OF DAYS			142.00				
YEARLY MEAN			1.81				

WATER DISTRICT #37 & 37-M						
NAME	BANNON	CANAL NUMB		ER 49		1993.00
OWNER	VARIOUS					
APRIL						
	MAY	JUNE	JULY	AUG.	SEPT.	DATE
		5.30	6.00	7.98	5.69	1.00
		5.30	6.00	7.98	5.69	2.00
		4.50	4.50	7.98	5.69	3.00
		4.50	4.50	7.98	5.69	4.00
		2.84	4.50	7.38	5.69	5.00
		2.84	4.00	7.38	5.69	6.00
		2.84	4.00	7.38	4.48	7.00
		3.48	4.50	7.38	4.48	8.00
		3.48	4.50	7.38	4.48	9.00
		3.20	6.74	7.38	4.48	10.00
		3.20	6.74	7.38	4.48	11.00
		3.20	6.74	5.68	4.48	12.00
		3.20	6.42	5.68	4.48	13.00
		3.20	6.42	5.68	2.00	14.00
		3.20	3.69	5.68	2.00	15.00
		3.20	3.69	5.68	4.00	16.00
		2.00	4.62	4.00	4.00	17.00
		2.00	4.62	4.00	4.48	18.00
		2.00	4.62	6.96	4.48	19.00
		2.00	3.00	6.96	4.48	20.00
		2.00	3.00	6.96	5.68	21.00
	6.36	5.30	2.13	6.96	5.68	22.00
	6.36	5.30	2.13	6.96	5.68	23.00
	6.36	6.36	7.98	5.68	5.68	24.00
	6.36	6.36	7.98	5.68	5.68	25.00
	6.36	6.04	7.98	5.68	5.68	26.00
	5.30	6.04	7.98	5.68	5.68	27.00
	5.30	6.04	7.98	5.68	4.48	28.00
	5.30	6.36	7.98	5.68	4.48	29.00
	5.30	3.36	7.98	5.68	4.00	30.00
	5.30		7.98	5.68		31.00
0						
	58.30	118.64	170.90	200.22	143.66	
YEARLY C.F.S.						
		691.72				
ARLY ACRE FEET						
		1369.61				
TAL NO. OF DAYS						
		132.00				
YEARLY MEAN						
		5.24				

	WATER DISTRICT #37 & 37-M						
CANAL NAME	BASELINE CANAL			STATION N	MBER 55-C		1993.00
	DAILY DISCHARGE IN SECOND FEET						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2		29.00	75.00	79.00	78.00	27.00	1.00
3		39.00	77.00	84.00	78.00	46.00	2.00
4		37.00	84.00	90.00	77.00	30.00	3.00
5		39.00	84.00	79.00	75.00	22.00	4.00
6		27.00	79.00	58.00	75.00	25.00	5.00
7		27.00	94.00	82.00	66.00	22.00	6.00
8		26.00	81.00	77.00	60.00	18.00	7.00
9		22.00	63.00	79.00	72.00	18.00	8.00
10		22.00	66.00	81.00	66.00	16.00	9.00
11		21.00	62.00	77.00	59.00	13.00	10.00
12		19.00	68.00	75.00	55.00	13.00	11.00
13		36.00	58.00	73.00	56.00	13.00	12.00
14	14.00	27.00	45.00	70.00	54.00	14.00	13.00
15	26.00	39.00	70.00	66.00	55.00	18.00	14.00
16	26.00	28.00	72.00	63.00	52.00	21.00	15.00
17	26.00	20.00	77.00	69.00	53.00	22.00	16.00
18	28.00	30.00	72.00	75.00	54.00	23.00	17.00
19	29.00	31.00	66.00	85.00	48.00	28.00	18.00
20	29.00	49.00	70.00	84.00	44.00	29.00	19.00
21	27.00	52.00	73.00	88.00	44.00	26.00	20.00
22	30.00	58.00	81.00	90.00	53.00	26.00	21.00
23	34.00	39.00	81.00	83.00	59.00	25.00	22.00
24	16.00	22.00	63.00	83.00	56.00	23.00	23.00
25	16.00	74.00	56.00	81.00	51.00	22.00	24.00
26	16.00	90.00	60.00	77.00	47.00	22.00	25.00
27	16.00	79.00	59.00	69.00	44.00	19.00	26.00
28	18.00	71.00	68.00	46.00	42.00	19.00	27.00
29	17.00	95.00	72.00	56.00	38.00	19.00	28.00
30	19.00	73.00	144.00	84.00	38.00	19.00	29.00
31	19.00	73.00	44.00	86.00	36.00	18.00	30.00
		67.00		82.00	28.00		31.00
TOTAL							
MEAN	406.00	1361.00	2164.00	2371.00	1713.00	656.00	
A.F.	23.00	44.00	72.00	76.00	55.00	22.00	
	804.00	2695.00	4285.00	4695.00	3392.00	1299.00	
YEARLY C.F.S.			8671.00				
YEARLY ACRE FEET			17168.58				
TOTAL NUMBER OF DAYS			S	171.00			
YEARLY MEAN			51.00				

	WATER DISTRICT #37 & 37-M						
CANAL NAME	BICKETT WELL			CANAL NUMB	ER 00-P1		1993.00
OWNER	OHN FLOOD						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2							1.00
3							2.00
4							3.00
5							4.00
6							5.00
7							6.00
8							7.00
9							8.00
10							9.00
11							10.00
12							11.00
13							12.00
14							13.00
15							14.00
16							15.00
17							16.00
18							17.00
19							18.00
20							19.00
21							20.00
22							21.00
23							22.00
24							23.00
25							24.00
26							25.00
27							26.00
28							27.00
29							28.00
30							29.00
31							30.00
							31.00
TOTAL							
	0.00	0.00	0.00	0.00	0.00	0.00	
YEARLY C.F.S.			0.00				
YEARLY ACRE FEET			0.00				
TOTAL NO. OF DAYS			0.00				
YEARLY MEAN			#DIV/0!				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		ROGERS		CANAL NUMB	ER 000-0P1		1993.00
OWNER	DEAN ROGERS WATER INTO BUHLER DRAIN						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2							1.00
3							2.00
4							3.00
5							4.00
6							5.00
7							6.00
8							7.00
9							8.00
10							9.00
11							10.00
12							11.00
13							12.00
14							13.00
15							14.00
16							15.00
17							16.00
18							17.00
19							18.00
20							19.00
21							20.00
22							21.00
23							22.00
24							23.00
25							24.00
26							25.00
27							26.00
28							27.00
29							28.00
30							29.00
31							30.00
							31.00
TOTAL							
	0.00	0.00	0.00	0.00	0.00	0.00	
YEARLY C.F.S.			0.00				
YEARLY ACRE FEET			0.00				
TOTAL NO. OF DAYS			0.00				
YEARLY MEAN			#DIV/0!				

	WATER DISTRICT #37 & 37-M						1993.00
CANAL NAME	CHAUMELL		CANAL NUMBER 22-P3				
OWNER	PAT MILLINGTON						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2			0.46	0.48	0.52	0.32	1.00
3			0.40	0.48	0.52	0.32	2.00
4			0.40	0.48	0.52	0.32	3.00
5			0.48	0.48	0.52	0.32	4.00
6			0.48	0.48	0.52	0.32	5.00
7			0.48	0.48	0.52	0.32	6.00
8				0.06	0.52	0.32	7.00
9				0.06	0.52	0.32	8.00
10				0.48	0.52	0.32	9.00
11				0.48	0.52	0.32	10.00
12				0.48	0.52	0.32	11.00
13				0.48	0.52	0.32	12.00
14				0.48	0.52	0.32	13.00
15				0.48	0.52	0.32	14.00
16				0.48	0.52	0.32	15.00
17			0.48	0.48	0.52	0.32	16.00
18			0.48	0.48	0.52	0.32	17.00
19			0.48	0.48	0.52	0.32	18.00
20		0.44	0.48	0.40	0.52	0.32	19.00
21		0.44	0.48	0.40	0.52	0.32	20.00
22		0.50	0.48	0.40	0.52	0.32	21.00
23		0.50	0.48	0.40	0.52	0.32	22.00
24		0.50	0.48	0.52	0.52	0.32	23.00
25		0.32	0.48	0.52	0.52	0.32	24.00
26		0.32	0.48	0.52	0.52	0.32	25.00
27		0.32	0.48	0.52	0.52		26.00
28		0.32	0.48	0.52	0.32		27.00
29		0.30	0.48	0.52	0.32		28.00
30		0.30	0.48	0.52	0.32		29.00
31		0.30	0.48	0.52	0.32		30.00
		0.46		0.52	0.32		31.00
TOTAL							
	0.00	5.02	9.90	14.08	15.12	8.00	
YEARLY C.F.S.			52.12				
YEARLY ACRE FEET			103.20				
TOTAL NO. OF DAYS			121.00				
YEARLY MEAN			0.43				

	WATER DISTRICT #37 & 37-M						1993.00
CANAL NAME		HEATH	CANAL NUMBER 10				
OWNER	FRED JUDD						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2							1.00
3				0.80			2.00
4				0.80			3.00
5				0.80			4.00
6				0.80			5.00
7				0.80			6.00
8				0.80			7.00
9				0.80			8.00
10				0.80			9.00
11				0.80			10.00
12				0.80			11.00
13				0.80			12.00
14				0.80			13.00
15				0.80			14.00
16				0.80			15.00
17				0.80			16.00
18				0.80			17.00
19				0.80			18.00
20				0.80			19.00
21				0.80			20.00
22				0.80			21.00
23				0.80			22.00
24							23.00
25							24.00
26							25.00
27				0.80			26.00
28				0.80			27.00
29							28.00
30							29.00
31							30.00
							31.00
TOTAL							
	0.00	0.00	0.00	18.40	0.00	0.00	
YEARLY C.F.S.			18.40				
YEARLY ACRE FEET			36.43				
TOTAL NO. OF DAYS			23.00				
YEARLY MEAN			0.80				

	WATER DISTRICT #37 & 37-M						1993.00
CANAL NAME		HICE	CANAL NUMBER 71				
OWNER	DAVIS INVESTMENT SPRING CREEK RANCH						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2			9.64	4.20	2.78	3.94	1.00
3			9.64	4.20	2.78	3.40	2.00
4			9.64	4.62	5.20	3.40	3.00
5			9.64	4.62	5.20	3.16	4.00
6			6.58	4.62	5.20	3.16	5.00
7			6.58	4.62	5.20	3.16	6.00
8			6.58	4.62	5.06	4.62	7.00
9			5.50	5.50	5.06	4.62	8.00
10			5.50	5.50	5.06	4.76	9.00
11			3.80	6.10	4.34	4.76	10.00
12			3.80	6.10	4.34	4.76	11.00
13			3.80	6.10	7.06	4.76	12.00
14		6.26	3.80	5.64	7.06	4.76	13.00
15		6.26	3.80	5.64	7.06	4.76	14.00
16		6.26	4.06	6.10	7.06	4.76	15.00
17		6.26	4.06	6.10	7.06	4.76	16.00
18		6.26	4.06	5.80	2.10	4.76	17.00
19		6.26	4.06	5.80	2.10	5.06	18.00
20		6.26	4.62	5.80	4.90	5.06	19.00
21		6.26	4.62	5.50	4.90	5.06	20.00
22		6.26	4.62	5.50	5.50	5.06	21.00
23		5.20	4.62	7.62	5.50	5.06	22.00
24		5.20	4.62	7.62	5.34	5.50	23.00
25		5.20	4.62	6.26	5.34	5.50	24.00
26		5.20	4.62	6.26	5.34	5.50	25.00
27		5.20	5.30	6.26	4.76	5.50	26.00
28		4.06	5.30	3.28	4.76	5.50	27.00
29		4.06	5.30	3.28	5.30	5.06	28.00
30		4.06	4.34	2.78	5.30	5.06	29.00
31		4.06	4.34	2.78	3.94		30.00
		4.06		2.78	3.94		31.00
TOTAL							
	0.00	102.64	161.46	161.60	154.54	135.22	
YEARLY C.F.S.			715.46				
YEARLY ACRE FEET			1416.61				
TOTAL NO. OF DAYS			140.00				
YEARLY MEAN			5.11				

	WATER DISTRICT #37 & 37-M						1993.00
CANAL NAME		HICE	CANAL NUMBER 71-A				
OWNER	BOB DAVIS			SPRING CREEK			
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2			5.50	0.78	3.40	4.76	1.00
3			5.50	0.78	3.40	4.48	2.00
4			7.38	0.78	6.58	4.48	3.00
5			7.38	0.78	6.58	4.20	4.00
6			2.78	0.78	6.58	4.20	5.00
7			2.78	0.78	6.58	4.20	6.00
8			2.78	0.78	5.50	4.76	7.00
9			3.40	1.78	5.50	4.76	8.00
10			3.40	1.78	5.50	4.90	9.00
11			1.78	2.32	5.34	4.90	10.00
12			1.78	2.32	5.34	4.76	11.00
13			0.42	2.32	1.68	4.76	12.00
14		4.06	0.42	2.68	1.68	4.76	13.00
15		4.06	0.42	2.68	1.68	5.06	14.00
16		4.06	1.94	7.06	1.68	5.06	15.00
17		4.06	1.94	7.06	1.68	5.06	16.00
18		4.06	1.00	6.74	1.68	5.06	17.00
19		4.06	1.00	6.74	1.68	4.76	18.00
20		4.06	1.20	6.74	1.50	4.76	19.00
21		4.06	1.20	6.74	1.50	4.76	20.00
22		4.06	1.20	6.74	1.50	4.76	21.00
23		4.06	1.20	6.90	1.50	4.76	22.00
24		4.06	1.20	6.90	1.50		23.00
25		4.06	1.20	7.06	1.28		24.00
26		3.66	1.20	7.06	1.28		25.00
27		3.66	1.68	7.06	1.28		26.00
28		4.20	1.68	3.40	1.28		27.00
29		4.20	1.68	3.40	4.76		28.00
30		4.20	0.86	3.40	4.76		29.00
31		4.20	0.86	3.40	4.76		30.00
		4.20		3.40	4.76		31.00
TOTAL							
	0.00	77.04	66.76	121.14	103.72	103.96	
YEARLY C.F.S.			472.62				
YEARLY ACRE FEET			935.79				
TOTAL NO. OF DAYS			133.00				
YEARLY MEAN			3.55				

	WATER DISTRICT #37 & 37-M						1993.00
CANAL NAME		IDEN	CANAL NUMBER 19				
OWNER	IDAHO FISH & GAME			USER: PICABO LIVESTOCK			
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2			6.50	3.79	7.82	7.82	1.00
3			7.92	1.96	7.82	7.82	2.00
4		3.92	7.92	1.96	7.82	7.82	3.00
5		3.92	10.00	1.96	7.82	7.82	4.00
6		5.68	10.00	5.47	7.82	7.82	5.00
7		5.68	10.00	5.47	7.82	7.82	6.00
8		6.00	10.00	4.80	7.82	7.82	7.00
9		6.00	10.00	4.80	7.82	7.89	8.00
10		6.00	10.00	4.80	7.82	7.89	9.00
11		6.00	10.00	4.80	7.82	7.89	10.00
12		6.00	10.00	4.80	7.82	7.89	11.00
13		5.68	10.00	4.80	7.82	7.89	12.00
14		5.68	10.00	4.80	7.82	7.89	13.00
15		5.68	5.80	1.96	7.82	7.89	14.00
16		5.68	5.80	1.96	7.82	7.89	15.00
17		5.68	5.80	9.78	7.82	7.89	16.00
18		5.68	5.80	9.78	7.82	7.89	17.00
19		5.68	5.80	9.78	7.82	7.89	18.00
20		5.68		9.78	7.82	7.89	19.00
21		5.68		9.78	7.82	7.89	20.00
22		5.68		9.78	7.82	7.89	21.00
23		5.68		9.78	7.82	7.89	22.00
24		5.68	3.79	9.78	7.82	7.89	23.00
25		6.50	3.79	9.78	7.82	7.89	24.00
26		6.50	3.79	9.78	7.82	7.89	25.00
27		6.50	3.79	9.78	7.82	7.89	26.00
28		6.50	3.79	9.78	7.82	7.89	27.00
29		6.50	3.79	7.82	7.82	7.89	28.00
30		6.50	3.79	7.82	7.82	7.89	29.00
31		6.50	3.79	7.82	7.82	7.89	30.00
		6.50		7.82	7.82		31.00
TOTAL							
	0.00	169.36	181.66	206.77	242.42	236.21	
YEARLY C.F.S.			1036.42				
YEARLY ACRE FEET			2052.11				
TOTAL NO. OF DAYS			147.00				
YEARLY MEAN			7.05				

	WATER DISTRICT #37 & 37-M						1993.00
CANAL NAME	KILPATRICK		CANAL NUMBER 18				
OWNER	PICABO LIVESTOCK						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2			33.00	28.20	24.12	D	1.00
3			31.56	27.40	24.12	25.36	2.00
4		2.94	31.56	27.40	24.12	25.36	3.00
5		2.94	31.56	27.40	29.28	25.36	4.00
6		7.20	31.56	27.12	29.28	25.36	5.00
7		7.20	31.56	27.12	29.28	25.36	6.00
8		5.88	20.32	27.12	29.28	25.36	7.00
9		5.88	20.32	27.12	29.28	25.36	8.00
10		5.88	20.32	19.96	29.28	25.36	9.00
11		8.50	20.32	19.96	29.28	25.36	10.00
12		8.50	10.36	19.96	29.28	25.36	11.00
13		8.50	10.36	19.96	29.28	25.36	12.00
14		8.50	10.36	19.96	29.28	25.36	13.00
15		16.00	10.36	19.96	29.28	25.36	14.00
16		16.00	10.36	19.96	29.28	25.36	15.00
17		16.00	10.36	19.96	29.28	25.36	16.00
18		17.00	10.36	19.96	29.28	25.36	17.00
19		17.00	10.36	19.96	22.48	25.36	18.00
20		21.00	10.36	19.96	22.48	25.36	19.00
21		21.00	10.36	19.96	22.48	25.36	20.00
22		23.00	22.48	19.96	22.48	25.36	21.00
23		23.00	22.48	19.96	22.48	25.36	22.00
24		23.00	22.48	19.96	22.48	25.36	23.00
25		27.96	22.48	19.96	22.48	16.12	24.00
26		27.96	27.96	19.96	25.36	16.12	25.00
27		33.00	27.96	19.96	25.36	16.12	26.00
28		33.00	27.96	19.96	25.36	12.96	27.00
29		33.00	31.56	22.48	25.36	12.96	28.00
30		33.00	31.56	22.48	25.36	12.96	29.00
31		33.00	28.20	24.12	25.36	12.96	30.00
		33.00		24.12	25.36		31.00
TOTAL							
	0.00	518.84	640.80	691.32	817.16	658.12	
YEARLY C.F.S.			3326.24				
YEARLY ACRE FEET			6585.96				
TOTAL NO. OF DAYS			151.00				
YEARLY MEAN			22.03				

	WATER DISTRICT #37 & 37-M						1993.00
CANAL NAME		KLINE	CANAL NUMBER 37				
OWNER		LEROY LEW	USER	L KAMAMARA			
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2			1.00	1.00	1.00		1.00
3			1.00	1.00	1.00		2.00
4			1.00	1.00	1.00		3.00
5			1.00	1.00	1.00		4.00
6			1.00	1.00	1.00		5.00
7			1.00	1.00	1.00		6.00
8			1.00	1.00	1.00		7.00
9			1.00	1.00	1.00		8.00
10			1.00	1.00	1.00		9.00
11			1.00	1.00	1.00		10.00
12			1.00	1.00	1.00		11.00
13			1.00	1.00	1.00		12.00
14		1.00	1.00	1.00	1.00		13.00
15		1.00	1.00	1.00	1.00		14.00
16		1.00	1.00	1.00	1.00		15.00
17		1.00	1.00	1.00	1.00		16.00
18		1.00	1.00	1.00			17.00
19		1.00	1.00	1.00			18.00
20		1.00	1.00	1.00			19.00
21		1.00	1.00	0.50			20.00
22		1.00	1.00	0.50			21.00
23		1.00	1.00	0.50			22.00
24		1.00	1.00	0.50			23.00
25		1.00	1.00	0.50			24.00
26		1.00	1.00	0.50			25.00
27		1.00	1.00	0.50			26.00
28		1.00	1.00	1.00			27.00
29		1.00	1.00	1.00			28.00
30		1.00	1.00	1.00			29.00
31		1.00	1.00	1.00			30.00
		1.00		1.00			31.00
TOTAL							
	0.00	19.00	30.00	27.50	16.00	0.00	
YEARLY C.F.S.			92.50				
YEARLY ACRE FEET			183.15				
TOTAL NO. OF DAYS			96.00				
YEARLY MEAN			0.96				

	WATER DISTRICT #37 & 37-M						1993.00
CANAL NAME		LAWSON	CANAL NUMBER 24-P1				
OWNER	OHN FLOOD						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2			0.94	1.00	0.94		1.00
3			0.90	0.78	0.92		2.00
4			0.90	0.78	0.92		3.00
5			0.94	0.78	1.92		4.00
6			0.94	0.84	1.92		5.00
7				0.84	1.88		6.00
8				1.68	1.88		7.00
9				1.68	1.88		8.00
10				0.48	1.04		9.00
11				0.48	1.04	1.22	10.00
12				0.48		1.22	11.00
13						1.22	12.00
14							13.00
15			0.30	1.00			14.00
16			0.30	1.00			15.00
17				1.80			16.00
18				1.80			17.00
19				1.80	1.04		18.00
20		1.40		1.14	1.04		19.00
21		1.40		1.14	1.04		20.00
22		1.06	1.26	1.00	1.04		21.00
23		1.06	1.26	1.00	1.04		22.00
24		1.06	1.40	1.76			23.00
25		0.94	1.40	1.76			24.00
26		0.94	1.80	1.80	1.24		25.00
27		1.10	1.80	1.66	1.24		26.00
28		1.10	1.80	1.66	2.32		27.00
29		0.86	1.04	0.92	2.32		28.00
30		0.86	1.04	0.92	2.32		29.00
31		0.86	1.00	0.94	0.76		30.00
		0.94		0.94	0.76		31.00
TOTAL							
	0.00	13.58	19.02	33.86	30.50	3.66	
YEARLY C.F.S.			100.62				
YEARLY ACRE FEET			199.22				
TOTAL NO. OF DAYS			84.00				
YEARLY MEAN			1.20				

	WATER DISTRICT #37 & 37-M						1993.00
CANAL NAME		LAWSON	CANAL NUMBER 24-P				
OWNER	OHN FLOODWATER FROM LUCKE WELL OO-P1						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2			3.20	2.98	2.72	1.42	1.00
3			3.24	2.80	2.70	1.42	2.00
4			3.24	2.80	2.70	1.42	3.00
5			1.42	2.80		1.42	4.00
6			1.42	2.80		1.42	5.00
7				2.80		1.42	6.00
8				1.24		1.42	7.00
9				1.24		1.42	8.00
10				2.46		1.42	9.00
11				2.46			10.00
12			0.12	2.46	1.06		11.00
13			0.12	2.90	1.06		12.00
14			0.12	2.90	1.06		13.00
15			0.32	2.80	1.06		14.00
16			0.32	2.80	1.06		15.00
17			0.34	0.58	1.06		16.00
18			0.34	0.58	1.06		17.00
19			0.62	0.58	0.82		18.00
20		3.20	0.62	2.64	0.82		19.00
21		3.20	0.62	2.64			20.00
22		3.26	0.96	2.60			21.00
23		3.26	0.96	2.60			22.00
24		3.26	2.54				23.00
25		3.14	2.54				24.00
26		3.14	2.12		1.42		25.00
27		3.00	2.12	0.30	1.42		26.00
28		3.00	2.12	0.30			27.00
29		2.98	3.14	2.70			28.00
30		2.98	3.14	2.70			29.00
31		2.98	2.98	2.72	1.42		30.00
		3.20		2.72	1.42		31.00
TOTAL							
	0.00	40.60	38.68	61.90	22.86	12.78	
YEARLY C.F.S.			176.82				
YEARLY ACRE FEET			350.10				
TOTAL NO. OF DAYS			91.00				
YEARLY MEAN			1.94				

	WATER DISTRICT #37 & 37-M						1993.00
CANAL NAME		LOVING	CANAL NUMBER 12 A				
OWNER	GERALD BASHAW						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2		0.04	5.26	13.73	8.80	1.38	1.00
3		0.04	6.95	13.73	4.97	1.38	2.00
4		0.04	6.95	13.73	4.97	1.02	3.00
5		0.04	8.25	13.73	2.08	1.02	4.00
6		0.04	8.25	11.36	2.08	1.02	5.00
7		0.10	8.25	11.36	4.69	2.64	6.00
8		0.10	15.00	3.24	4.69	2.64	7.00
9		0.10	15.00	3.24	4.69	3.87	8.00
10		0.10	16.00	2.19	10.23	3.87	9.00
11		0.10	16.00	2.19	10.23	1.77	10.00
12		0.10	13.73	2.19	6.63	1.77	11.00
13	0.30	0.10	13.73	3.36	6.63	1.77	12.00
14	0.30	0.10	12.53	3.36	9.15	4.14	13.00
15	0.30	0.10	12.53	4.97	9.15	4.14	14.00
16	0.30	0.10	12.53	4.97	9.15	4.14	15.00
17	0.30	0.10	13.32	6.17	9.15	4.14	16.00
18	0.30	0.10	13.32	6.17	9.15	0.86	17.00
19	0.30	0.10	12.53	6.17	6.63	0.86	18.00
20	0.30	6.32	12.53	2.64	6.63	0.86	19.00
21	0.30	6.32	12.53	2.64	1.87	2.19	20.00
22	0.04	2.87	12.53	4.14	1.87	2.19	21.00
23	0.04	2.87	12.53	4.14	1.87	2.87	22.00
24	0.04	2.87	11.94	9.51	2.64	2.87	23.00
25	0.04	7.50	11.94	9.51	2.64	0.86	24.00
26	0.04	7.50	5.86	9.51	3.36	0.86	25.00
27	0.04	11.90	5.86	7.61	3.36	0.86	26.00
28	0.04	11.90	5.86	7.61	3.87	0.94	27.00
29	0.04	9.80	14.98	2.64	3.87	0.94	28.00
30	0.04	9.80	14.98	2.64	3.87	1.02	29.00
31	0.04	5.26	13.73	8.80	5.26	1.02	30.00
				8.80	5.26		31.00
TOTAL							
	3.10	86.41	345.40	206.05	169.44	59.91	
YEARLY C.F.S.			870.31				
YEARLY ACRE FEET			1723.21				
TOTAL NO. OF DAYS			171.00				
YEARLY MEAN			5.09				

	WATER DISTRICT #37 & 37-M						1992.00
CANAL NAME	LUCKE WELL CANAL NUMBER 00-P4						
OWNER	OHN FLOOD DELIVERED TO LAWSON 24-P 10%LOSS						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2		4.50	4.50	4.40	4.40	4.40	1.00
3		4.50	4.50	4.40	4.40	4.40	2.00
4		4.50	4.50	4.40	4.40	4.40	3.00
5		4.50	4.50	4.40	4.40	4.40	4.00
6		4.50	4.50	4.40	4.40	4.40	5.00
7		4.50	4.50	4.40	4.40	4.40	6.00
8		4.50	4.50	4.40	4.40	4.40	7.00
9		4.50	4.50	4.40	4.40	4.40	8.00
10		4.50	4.50	4.40	4.40	4.40	9.00
11		4.50	4.50	4.40	4.40	4.40	10.00
12		4.50	4.50	4.40	4.40	4.40	11.00
13		4.50	4.50	4.40	4.40	4.40	12.00
14		4.50	4.50	4.40	4.40	4.40	13.00
15		4.50	4.50	4.40	4.40	4.40	14.00
16		4.50	4.50	4.40	4.40	4.40	15.00
17		4.50	4.50	4.40	4.40	4.40	16.00
18		4.50	4.50	4.40	4.40	4.40	17.00
19		4.50	4.50	4.40	4.40	4.40	18.00
20		4.50	4.50	4.40	4.40	4.40	19.00
21	2.00	4.50	4.50	4.40	4.40	4.40	20.00
22	2.00	4.50	4.50	4.40	4.40	4.40	21.00
23	2.00	4.50	4.50	4.40	4.40	4.40	22.00
24	2.00	4.50	4.50	4.40	4.40	4.40	23.00
25	2.00	4.50	4.40	4.40	4.40	4.40	24.00
26	2.00	4.50	4.40	4.40	4.40	4.40	25.00
27	2.00	4.50	4.40	4.40	4.40	4.40	26.00
28	2.00	4.50	4.40	4.40	4.40	4.40	27.00
29	2.00	4.50	4.40	4.40	4.40	4.40	28.00
30	4.50	4.50	4.40	4.40	4.40	4.40	29.00
31	4.50	4.50	4.40	4.40	4.40	4.40	30.00
		4.50		4.40	4.40		31.00
TOTAL							
	27.00	139.50	134.30	136.40	136.40	132.00	
YEARLY C.F.S.			705.60				
YEARLY ACRE FEET			1397.09				
TOTAL NO. OF DAYS			164.00				
YEARLY MEAN			4.30				
							1993.00

CANAL NAME	RINKER WELL		CANAL NUMBER18-P				
OWNER	HARRY RINKER						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2					2.80		1.00
3					2.80		2.00
4					2.80		3.00
5					2.80		4.00
6				2.80	2.80		5.00
7				2.80	2.80		6.00
8				2.80	2.80		7.00
9				2.80	2.80		8.00
10				2.80	2.80		9.00
11				2.80	2.80		10.00
12				2.80	2.80		11.00
13				2.80	2.80		12.00
14				2.80	2.80		13.00
15				2.80	2.80		14.00
16				2.80	2.80		15.00
17				2.80			16.00
18				2.80			17.00
19				2.80	2.80		18.00
20				2.80	2.80		19.00
21				2.80	2.80		20.00
22				2.80	2.80		21.00
23				2.80			22.00
24				2.80			23.00
25				2.80			24.00
26				2.80			25.00
27				2.80			26.00
28				2.80			27.00
29				2.80			28.00
30				2.80			29.00
31				2.80			30.00
				2.80			31.00
TOTAL							
	0.00	0.00	0.00	75.60	53.20	0.00	
YEARLY C.F.S.			128.80				
YEARLY ACRE FEET			255.02				
TOTAL NO. OF DAYS			46.00				
YEARLY MEAN			2.80				

	WATER DISTRICT #37 & 37-M						1993.00
CANAL NAME		SCOFIELD	CANAL NUMBER 42-P3				
OWNER	MICHAEL SCHWEITZER						
DATE							
	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							
2			0.20	0.20	0.20		1.00
3			0.20	0.20	0.20		2.00
4			0.20	0.20			3.00
5			0.20	0.20			4.00
6			0.20	0.20			5.00
7			0.20	0.20			6.00
8			0.20	0.20			7.00
9			0.20	0.20			8.00
10			0.20	0.20			9.00
11			0.20	0.20			10.00
12			0.20	0.20			11.00
13			0.20	0.20			12.00
14			0.20	0.20			13.00
15			0.20	0.20			14.00
16			0.20	0.20			15.00
17			0.20	0.20			16.00
18			0.20	0.20			17.00
19			0.20	0.20			18.00
20			0.20	0.20			19.00
21			0.20	0.20			20.00
22			0.20	0.20			21.00
23		0.20	0.20	0.20			22.00
24		0.20	0.20	0.20			23.00
25		0.20	0.20	0.20			24.00
26		0.20	0.20	0.20			25.00
27		0.20	0.20	0.20			26.00
28		0.20	0.20	0.20			27.00
29		0.20	0.20	0.20			28.00
30		0.20	0.20	0.20			29.00
31		0.20	0.20	0.20			30.00
		0.20		0.20			31.00
TOTAL							
	0.00	2.00	6.00	6.20	0.40	0.00	
YEARLY C.F.S.			14.60				
YEARLY ACRE FEET			28.91				
TOTAL NO. OF DAYS			73.00				
YEARLY MEAN			0.20				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		PECK	CANAL NUMBER 41				1993.00
OWNER	THOMAS PECK						
DATE	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1			0.36	0.36	0.36	0.36	1.00
2			0.36	0.36	0.36	0.36	2.00
3			0.36	0.36	0.36	0.36	3.00
4			0.36	0.36	0.36		4.00
5			0.36	0.36	0.36		5.00
6			0.36	0.36	0.36		6.00
7			0.36	0.36	0.36		7.00
8			0.36	0.36	0.36		8.00
9			0.36	0.36	0.36		9.00
10			0.36	0.36	0.36		10.00
11			0.36	0.36	0.36		11.00
12			0.36	0.36	0.36		12.00
13		0.36	0.36	0.36	0.36		13.00
14		0.36	0.36	0.36	0.36		14.00
15		0.36	0.36	0.36	0.36		15.00
16		0.36	0.36	0.36	0.36		16.00
17		0.36	0.36	0.36	0.36		17.00
18		0.36	0.36	0.36	0.36		18.00
19		0.36	0.36	0.36	0.36		19.00
20		0.36	0.36	0.36	0.36		20.00
21		0.36	0.36	0.36	0.36		21.00
22		0.36	0.36	0.36	0.36		22.00
23		0.36	0.36	0.36	0.36		23.00
24		0.36	0.36	0.36	0.36		24.00
25		0.36	0.36	0.36	0.36		25.00
26		0.36	0.36	0.36	0.36		26.00
27		0.36	0.36	0.36	0.36		27.00
28		0.36	0.36	0.36	0.36		28.00
29		0.36	0.36	0.36	0.36		29.00
30		0.36	0.36	0.36	0.36		30.00
31		0.36		0.36	0.36		31.00
TOTAL	0.00	6.84	10.80	11.16	11.16	1.08	
YEARLY C.F.S.			41.04				
YEARLY ACRE FEET			81.26				
TOTAL NO. OF DAYS			114.00				
YEARLY MEAN			0.36				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		HAUGH	CANAL NUMBER 42-A				1993.00
OWNER	USER: CHRIS HAUGH						
DATE	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1		1.00	1.66	1.00	1.00	1.00	1.00
2		1.00	1.66	1.00	1.00	1.00	2.00
3		1.00	1.66	1.00	1.00	1.00	3.00
4		1.00	1.66	1.00	1.00	1.00	4.00
5		1.00	1.66	1.00	1.00	1.00	5.00
6		1.00	1.66	1.00	1.00	1.00	6.00
7		1.00	1.66	1.00	1.00	1.00	7.00
8		1.00	1.66	1.00	1.00	1.00	8.00
9		1.00	1.66	1.00	1.00	1.00	9.00
10		1.00	1.84	1.00	1.00	1.00	10.00
11		1.00	1.84	1.00	1.00	1.00	11.00
12		1.00	1.84	1.00	1.00	1.00	12.00
13		1.00	1.66	1.00	1.00	1.00	13.00
14		1.00	1.66	1.00	1.00	1.00	14.00
15	1.00	1.00	1.00	1.00	1.00	1.00	15.00
16	1.00	1.00	1.00	1.00	1.00	1.00	16.00
17	1.00	1.00	1.00	1.00	1.00	1.00	17.00
18	1.00		1.00	1.00	1.00	1.00	18.00
19	1.00	1.40	1.00	1.00	1.00	1.00	19.00
20	1.00	1.40	1.00	1.00	1.00	1.00	20.00
21	1.00	1.40	1.00	1.00	1.00	1.00	21.00
22	1.00	1.40	1.00	1.00	1.00	1.00	22.00
23	1.00	1.40	1.00	1.00	1.00	1.00	23.00
24	1.00	1.40	1.00	1.00	1.00	1.00	24.00
25	1.00	1.40	1.00	1.00	1.00	1.00	25.00
26	1.00	1.40	1.00	1.00	1.00	1.00	26.00
27	1.00	1.40	1.00	1.00	1.00	1.00	27.00
28	1.00	1.40	1.00	1.00	1.00	1.00	28.00
29	1.00	1.66	1.00	1.00	1.00	1.00	29.00
30	1.00	1.66	1.00	1.00	1.00	1.00	30.00
31		1.66		1.00	1.00		31.00
TOTAL	16.00	35.98	39.78	31.00	31.00	30.00	
YEARLY C.F.S.			183.76				
YEARLY ACRE FEET			363.84				
TOTAL NO. OF DAYS			168.00				
YEARLY MEAN			1.09				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		BRAMON	CANAL NUMBER 43				1993.00
OWNER	FRANK BRAMON						
DATE	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1		0.38	0.38	0.38			1.00
2		0.38	0.38	0.38			2.00
3		0.38	0.38	0.38			3.00
4		0.38	0.38	0.38			4.00
5		0.38	0.38	0.38			5.00
6		0.38	0.38	0.38			6.00
7		0.38	0.38	0.38			7.00
8		0.38	0.38	0.38			8.00
9		0.38	0.38	0.38			9.00
10		0.38	0.38	0.38			10.00
11		0.38	0.38	0.38			11.00
12		0.38	0.38	0.38			12.00
13		0.38	0.38	0.38			13.00
14		0.38	0.38	0.38			14.00
15		0.38	0.38	0.38			15.00
16		0.38	0.38	0.38			16.00
17		0.38	0.38				17.00
18		0.38	0.38				18.00
19		0.38	0.38				19.00
20		0.38	0.38				20.00
21		0.38	0.38				21.00
22		0.38	0.38				22.00
23		0.38	0.38				23.00
24		0.38	0.38				24.00
25		0.38	0.38				25.00
26		0.38	0.38				26.00
27		0.38	0.38				27.00
28		0.38	0.38				28.00
29	0.38	0.38	0.38				29.00
30	0.38	0.38	0.38				30.00
31		0.38					31.00
TOTAL	0.76	11.78	11.40	6.08	0.00	0.00	
YEARLY C.F.S.			30.02				
YEARLY ACRE FEET			59.44				
TOTAL NO. OF DAYS			79.00				
YEARLY MEAN			0.38				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		KOHLER	CANAL NUMBER 44				1993.00
OWNER	TED DEVINE						
DATE	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1				5.12			1.00
2				5.12			2.00
3				5.12			3.00
4				5.12			4.00
5				5.12	4.20		5.00
6				5.12	4.20		6.00
7				5.12	4.20	4.20	7.00
8					4.20	4.20	8.00
9					4.20	4.20	9.00
10				5.12	4.20	4.20	10.00
11				5.12	4.20	4.20	11.00
12				5.12	4.20	4.20	12.00
13				5.12	4.20	4.20	13.00
14				5.12		4.20	14.00
15		4.92		5.12		4.20	15.00
16		4.92		5.12		4.20	16.00
17		4.92		5.12		4.20	17.00
18		5.50		5.12		4.20	18.00
19		5.50	5.12		4.20	4.20	19.00
20		5.50	5.12		4.20	4.20	20.00
21		5.50	5.12		4.20	4.20	21.00
22					4.20	4.20	22.00
23					4.20	4.20	23.00
24						4.20	24.00
25		5.50					25.00
26		5.50					26.00
27		4.36					27.00
28		4.36					28.00
29		4.36					29.00
30		4.36					30.00
31		4.36					31.00
TOTAL	0.00	69.56	15.36	81.92	58.80	75.60	
YEARLY C.F.S.			301.24				
YEARLY ACRE FEET			596.46				
TOTAL NO. OF DAYS			65.00				
YEARLY MEAN			4.63				

	WATER DISTRICT #37 & 37-M						
CANAL NAME	MOLLY PUMP		CANAL NUMBER 39-P				1993.00
OWNER	W. MOLYNEUX						
DATE	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1			0.58	0.40	0.54	0.54	1.00
2			0.46	0.60	0.54	0.54	2.00
3			0.46	0.60	0.54	0.54	3.00
4			0.46	0.60	0.54	0.54	4.00
5			0.46	0.60	0.54	0.54	5.00
6			0.46	0.60	0.54	0.54	6.00
7				0.60	0.54		7.00
8				0.60	0.54		8.00
9				0.64	0.54		9.00
10				0.64	0.54	0.54	10.00
11				0.64	0.54	0.54	11.00
12				0.64	0.54	0.54	12.00
13				0.64	0.54	0.54	13.00
14		0.41		0.60	0.54	0.54	14.00
15		0.41		0.62	0.54	0.54	15.00
16		0.41		0.62	0.54	0.54	16.00
17		0.36			0.54		17.00
18		0.36			0.54		18.00
19		0.36		0.54	0.54		19.00
20		0.36		0.54	0.54		20.00
21		0.40	0.60	0.54	0.54		21.00
22		0.40	0.60	0.54	0.54		22.00
23		0.40	0.60	0.54	0.54		23.00
24		0.40	0.60	0.54	0.54		24.00
25		0.40	1.22	0.54	0.54		25.00
26		0.40	1.22	0.56	0.54		26.00
27		0.40	1.22	0.56	0.54		27.00
28		0.58	1.22	0.56	0.54		28.00
29		0.58	1.22	0.56	0.54		29.00
30		0.58	0.40	0.54			30.00
31		0.58		0.54			31.00
TOTAL	0.00	7.79	11.78	16.74	15.66	7.02	
YEARLY C.F.S.			58.99				
YEARLY ACRE FEET			116.80				
TOTAL NO. OF DAYS			105.00				
YEARLY MEAN			0.56				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		BILL	CANAL NUMBER 9				1993.00
OWNER	BILL MC MAHAN						
DATE	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1						0.98	1.00
2						0.98	2.00
3						2.24	3.00
4						2.24	4.00
5						2.24	5.00
6						1.96	6.00
7						1.96	7.00
8						2.43	8.00
9						2.43	9.00
10						3.36	10.00
11						3.36	11.00
12							12.00
13							13.00
14							14.00
15							15.00
16							16.00
17							17.00
18							18.00
19							19.00
20							20.00
21							21.00
22							22.00
23							23.00
24						3.81	24.00
25						3.81	25.00
26						3.81	26.00
27							27.00
28							28.00
29							29.00
30							30.00
31							31.00
TOTAL	0.00	0.00	0.00	0.00	0.00	35.61	
YEARLY C.F.S.			35.61				
YEARLY ACRE FEET			70.51				
TOTAL NO. OF DAYS			14.00				
YEARLY MEAN			2.54				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		WERRY	CANAL NUMBER 38-P				1992.00
OWNER	JACK PARKER						
DATE	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1							1.00
2			0.20				2.00
3			0.20				3.00
4			0.20				4.00
5			0.20		0.40		5.00
6			0.20		0.40		6.00
7			0.20		0.40		7.00
8			0.20		0.40		8.00
9			0.20		0.40		9.00
10			0.20	0.40	0.40		10.00
11				0.40	0.40		11.00
12				0.40	0.40		12.00
13				0.40	0.40		13.00
14				0.40			14.00
15				0.40			15.00
16				0.40			16.00
17							17.00
18							18.00
19							19.00
20							20.00
21					0.40		21.00
22					0.40		22.00
23							23.00
24							24.00
25							25.00
26							26.00
27							27.00
28					0.40		28.00
29					0.40		29.00
30					0.40		30.00
31					0.40		31.00
TOTAL	0.00	0.00	1.80	2.80	6.00	0.00	
YEARLY C.F.S.			10.60				
YEARLY ACRE FEET			20.99				
TOTAL NO. OF DAYS			31.00				
YEARLY MEAN			0.34				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		GILLIHAN	CANAL NUMBER 11				1993.00
OWNER		GARY CASTLE					
DATE	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1			1.00				1.00
2							2.00
3							3.00
4							4.00
5							5.00
6							6.00
7							7.00
8							8.00
9							9.00
10							10.00
11							11.00
12							12.00
13							13.00
14		1.00					14.00
15		1.00					15.00
16		1.00					16.00
17		1.00					17.00
18		1.00					18.00
19		1.00					19.00
20		1.00					20.00
21		1.00					21.00
22		1.00					22.00
23		1.00					23.00
24		1.00					24.00
25		1.00					25.00
26		1.00					26.00
27		1.00					27.00
28		1.00	1.00				28.00
29		1.00	1.00				29.00
30		1.00					30.00
31		1.00					31.00
TOTAL	0.00	18.00	3.00	0.00	0.00	0.00	
YEARLY C.F.S.			21.00				
YEARLY ACRE FEET			41.58				
TOTAL NO. OF DAYS			21.00				
YEARLY MEAN			1.00				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		CHAUMELL	CANAL NUMBER 22-P2				1993.00
OWNER	PAT MILLINGTON						
DATE	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1				0.20	0.21		1.00
2							2.00
3							3.00
4			0.12				4.00
5			0.12				5.00
6			0.12		0.21	0.21	6.00
7					0.21	0.21	7.00
8					0.21	0.21	8.00
9				0.20	0.21	0.21	9.00
10				0.20	0.21	0.21	10.00
11				0.20		0.21	11.00
12				0.21			12.00
13				0.21			13.00
14							14.00
15							15.00
16				0.21	0.21		16.00
17				0.21	0.21	0.21	17.00
18			0.20	0.21	0.21	0.21	18.00
19		0.12	0.20	0.21	0.21	0.21	19.00
20		0.12	0.20	0.21	0.21	0.21	20.00
21		0.12	0.20		0.21	0.21	21.00
22		0.12	0.20		0.21		22.00
23		0.12	0.20		0.21		23.00
24		0.12	0.20		0.21		24.00
25		0.12					25.00
26		0.12					26.00
27		0.12			0.21		27.00
28		0.12	0.20	0.21	0.21		28.00
29		0.12	0.20	0.21	0.21		29.00
30		0.12	0.20	0.21	0.21		30.00
31				0.21	0.21		31.00
TOTAL	0.00	1.44	2.36	3.11	4.20	2.31	
YEARLY C.F.S.			13.42				
YEARLY ACRE FEET			26.57				
TOTAL NO. OF DAYS			71.00				
YEARLY MEAN			0.19				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		CHAUMELL	CANAL NUMBER 22-P4				1993.00
OWNER	PAT MILLINGTON						
DATE	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1			1.28	1.98	2.30	0.90	1.00
2			1.76	1.86	2.30	0.90	2.00
3			1.76	1.86	2.30	1.68	3.00
4			1.46	1.86	2.30	1.68	4.00
5			1.46	1.58	2.30	1.68	5.00
6				1.58	2.22	2.32	6.00
7				1.66	2.22	2.32	7.00
8				1.66	2.22	2.32	8.00
9				2.16	2.02	2.32	9.00
10				2.16	2.02	2.32	10.00
11				2.16	2.02	2.32	11.00
12				1.96	2.02	2.32	12.00
13				1.96	2.30	2.00	13.00
14		1.46		1.96	2.30	2.00	14.00
15		1.46		1.96	1.84	2.00	15.00
16		1.46		1.98	1.84	2.00	16.00
17		1.56		1.98	1.84	2.00	17.00
18		1.56	2.12	1.98	1.84	2.00	18.00
19		1.60	2.12	2.30	1.84	2.00	19.00
20		1.60	2.12	2.30	2.12	2.00	20.00
21		1.54	2.02	2.28	2.12	2.00	21.00
22		1.54	2.02	2.28	2.30	2.32	22.00
23		1.54	1.60	2.30	2.30	2.32	23.00
24		1.60	1.60	2.30	2.30	2.32	24.00
25		1.60	2.02	2.30	2.32	2.32	25.00
26		1.60	2.02	2.30	2.32	2.32	26.00
27		1.60	2.02	2.30	2.04	2.32	27.00
28		1.60	1.80	2.28	2.04	2.32	28.00
29		1.60	1.80	2.28	2.04	2.32	29.00
30		1.60	1.98	2.30	1.68	2.32	30.00
31		1.28		2.30	1.68		31.00
TOTAL	0.00	27.80	32.96	64.12	65.30	61.96	
YEARLY C.F.S.			252.14				
YEARLY ACRE FEET			499.24				
TOTAL NO. OF DAYS			128.00				
YEARLY MEAN			1.97				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		GILLIHAN	CANAL NUMBER 11				1993.00
OWNER	WARD WOODS						
DATE	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1					0.30	0.30	1.00
2					0.30	0.30	2.00
3					0.30	0.30	3.00
4					0.30	0.30	4.00
5					0.30	0.30	5.00
6					0.30	0.30	6.00
7					0.30	0.30	7.00
8					0.30	0.30	8.00
9					0.30	0.30	9.00
10					0.30	0.30	10.00
11					0.30	0.30	11.00
12				0.30	0.30	0.30	12.00
13				0.30	0.30	0.30	13.00
14				0.30	0.30	0.30	14.00
15				0.30	0.30	0.30	15.00
16				0.30	0.30	0.30	16.00
17				0.30	0.30	0.30	17.00
18				0.30	0.30	0.30	18.00
19				0.30	0.30	0.30	19.00
20				0.30	0.30	0.30	20.00
21				0.30	0.30	0.30	21.00
22				0.30	0.30	0.30	22.00
23				0.30	0.30	0.30	23.00
24	1.00			0.30	0.30	0.30	24.00
25	1.00			0.30	0.30	0.30	25.00
26	1.00			0.30	0.30	0.30	26.00
27	1.00			0.30	0.30	0.30	27.00
28				0.30	0.30	0.30	28.00
29				0.30	0.30	0.30	29.00
30				0.30	0.30	0.30	30.00
31				0.30	0.30		31.00
TOTAL	4.00	0.00	0.00	6.00	9.30	9.00	
YEARLY C.F.S.			28.30				
YEARLY ACRE FEET			56.03				
TOTAL NO. OF DAYS			85.00				
YEARLY MEAN			0.33				

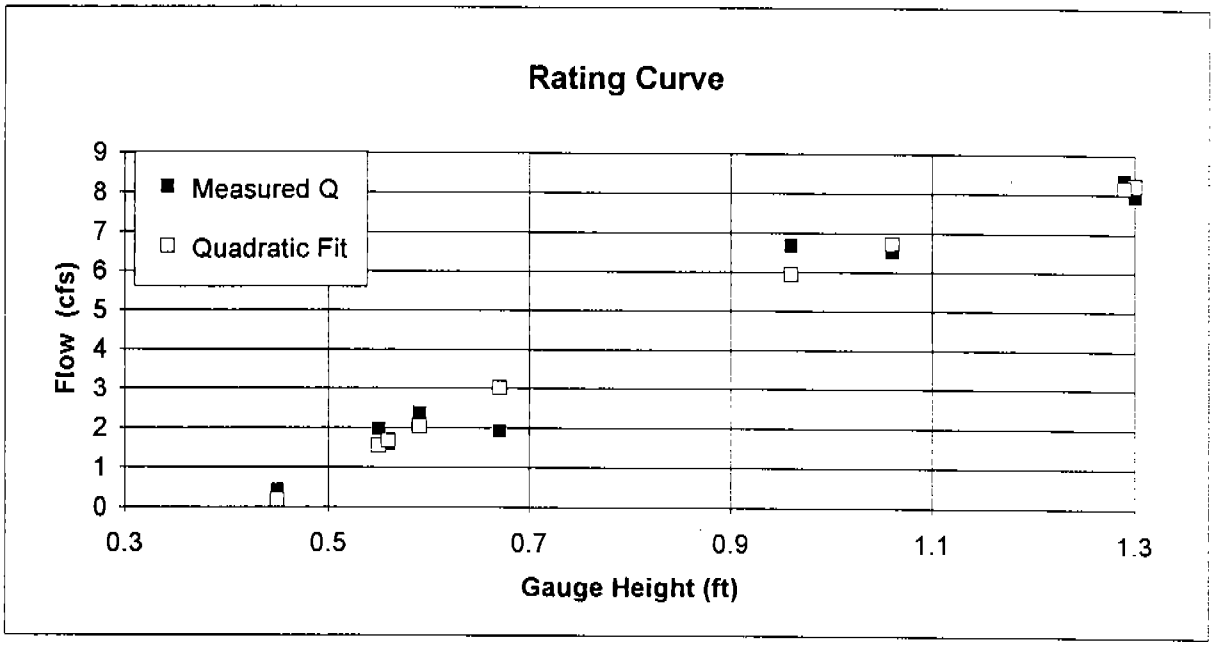
	WATER DISTRICT #37 & 37-M						
CANAL NAME	NAME	GILLIHAN		CANAL NUMB	ER 11		1993.00
OWNER	KENNETH WORTHINGTON						
DATE	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1			0.40	0.40	0.40	0.40	1.00
2			0.40	0.40	0.40	0.40	2.00
3			0.40	0.40	0.40	0.40	3.00
4			0.40	0.40	0.40	0.40	4.00
5			0.40	0.40	0.40	0.40	5.00
6			0.40	0.40	0.40	0.40	6.00
7		0.40	0.40	0.40	0.40	0.40	7.00
8		0.40	0.40	0.40	0.40	0.40	8.00
9		0.40	0.40	0.40	0.40	0.40	9.00
10		0.40	0.40	0.40	0.40	0.40	10.00
11		0.40	0.40	0.40	0.40	0.40	11.00
12		0.40	0.40	0.40	0.40	0.40	12.00
13		0.40	0.40	0.40	0.40	0.40	13.00
14		0.40	0.40	0.40	0.40	0.40	14.00
15		0.40	0.40	0.40	0.40	0.40	15.00
16		0.40	0.40	0.40	0.40	0.40	16.00
17		0.40	0.40	0.40	0.40	0.40	17.00
18		0.40	0.40	0.40	0.40	0.40	18.00
19		0.40	0.40	0.40	0.40	0.40	19.00
20		0.40	0.40	0.40	0.40	0.40	20.00
21		0.40	0.40	0.40	0.40	0.40	21.00
22		0.40	0.40	0.40	0.40	0.40	22.00
23		0.40	0.40	0.40	0.40	0.40	23.00
24		0.40	0.40	0.40	0.40	0.40	24.00
25		0.40	0.40	0.40	0.40	0.40	25.00
26		0.40	0.40	0.40	0.40	0.40	26.00
27		0.40	0.40	0.40	0.40	0.40	27.00
28		0.40	0.40	0.40	0.40	0.40	28.00
29		0.40	0.40	0.40	0.40	0.40	29.00
30		0.40	0.40	0.40	0.40	0.40	30.00
31		0.40		0.40	0.40		31.00
TOTAL	0.00	10.00	12.00	12.40	12.40	12.00	
YEARLY C.F.S.			58.80				
YEARLY ACRE FEET			116.42				
TOTAL NO. OF DAYS			147.00				
YEARLY MEAN			0.40				

	WATER DISTRICT #37 & 37-M						
CANAL NAME		GILLIHAN	CANAL NUMBER 11				1993.00
OWNER		FISH & GAME	USER:PICABO LIVESTOCK				
DATE	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	DATE
1			4.14	3.00	5.50	6.00	1.00
2			4.14	3.00	5.50	6.00	2.00
3			4.14	3.00	5.50	6.00	3.00
4			4.14	3.00		6.00	4.00
5			4.14	7.00		6.00	5.00
6				7.00		6.00	6.00
7				10.00		6.00	7.00
8				10.00		6.00	8.00
9				10.00		6.00	9.00
10				10.00		6.00	10.00
11			3.00	10.00		6.00	11.00
12		4.14	3.00	10.00		6.00	12.00
13		4.14	3.00	10.00		6.00	13.00
14		4.14		8.02		6.00	14.00
15		4.14		8.02		6.00	15.00
16		4.14		8.02	6.00	6.00	16.00
17		4.14		8.02	6.00	6.00	17.00
18		4.14		8.02	6.00	6.00	18.00
19		4.14		9.28	6.00	6.00	19.00
20		4.14		9.28	6.00	6.00	20.00
21		4.14	3.00	7.35	6.00	6.00	21.00
22		4.14	3.00	7.35	6.00	6.00	22.00
23		4.14	3.00	7.35	6.00	6.00	23.00
24		4.14	3.00	7.35	6.00	6.00	24.00
25		4.14	3.00	7.35	6.00	6.00	25.00
26		4.14	3.00	7.35	6.00	6.00	26.00
27		4.14	3.00	7.35	6.00	2.20	27.00
28		4.14	3.00	7.35	6.00	2.20	28.00
29		4.14	3.00	7.35	6.00	2.20	29.00
30		4.14	3.00	5.50	6.00	2.20	30.00
31		4.14		5.50	6.00		31.00
TOTAL	0.00	82.80	59.70	231.81	112.50	164.80	
YEARLY C.F.S.			651.61				
YEARLY ACRE FEET			1290.19				
TOTAL NO. OF DAYS			118.00				
YEARLY MEAN			5.52				

Appendix C

Rating Curves and Hydrographs for Surface Streams

Figure 1. Rating Curve and Hydrograph for Brock Creek



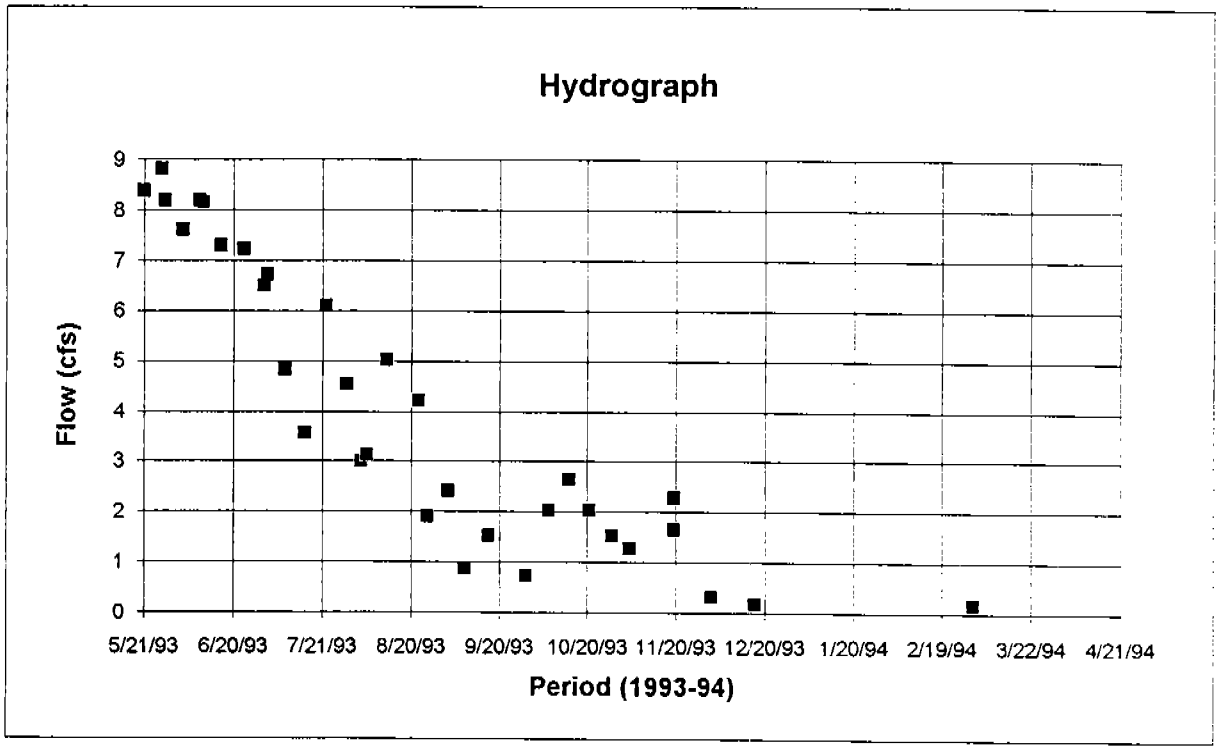
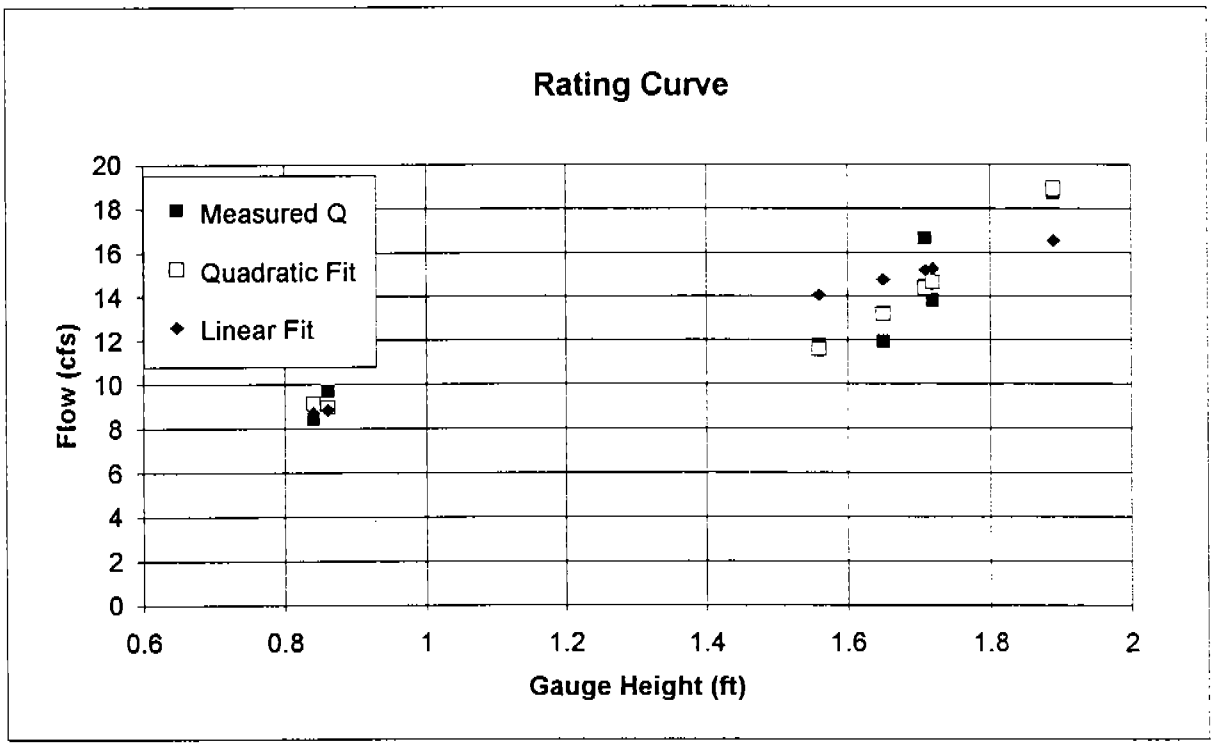


Figure 2. Rating Curve and Hydrograph for Crystal Creek



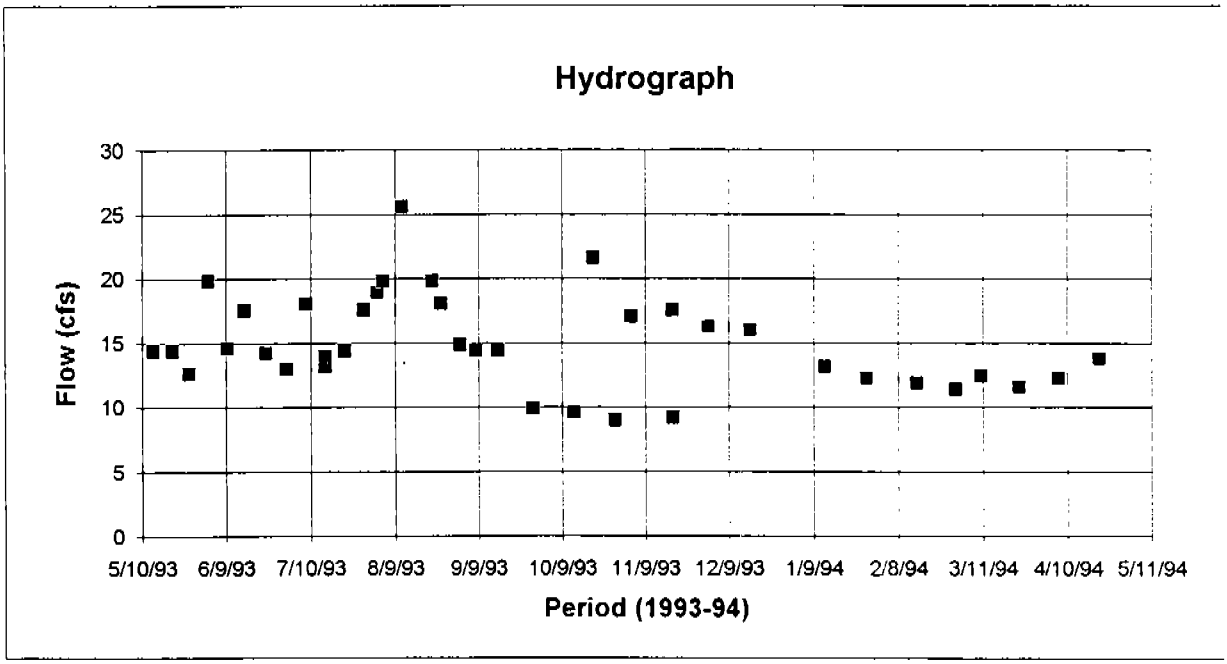
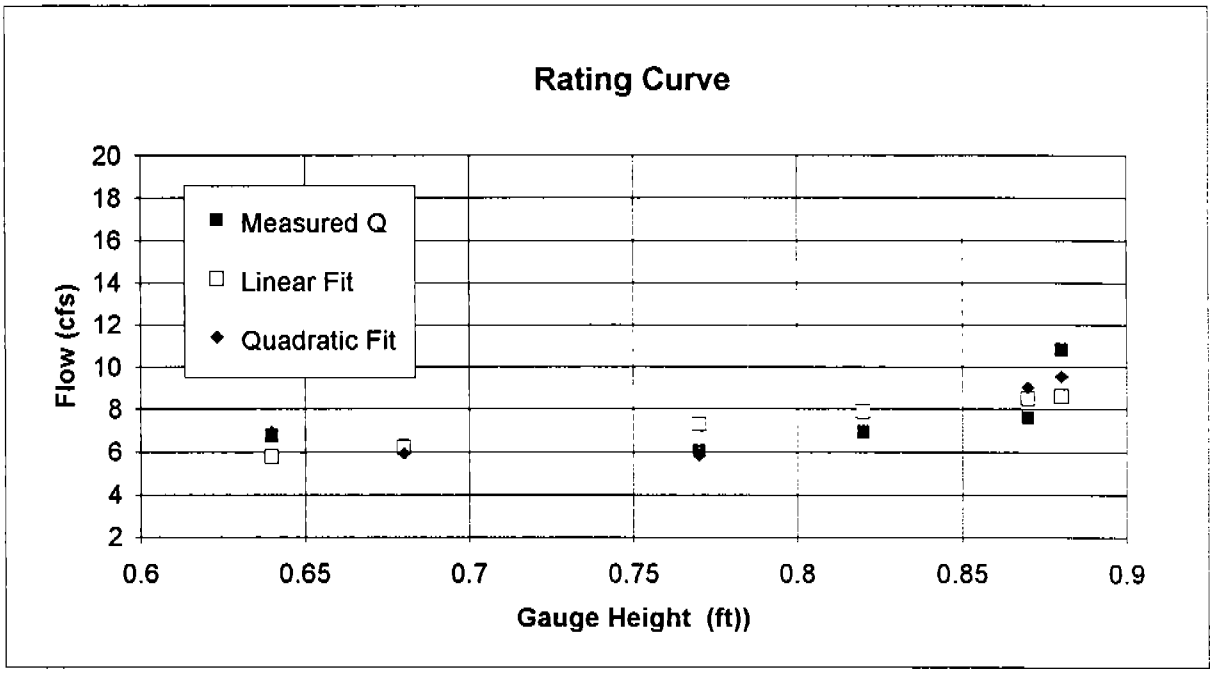


Figure 3. Rating Curve and Hydrograph for Spring Creek



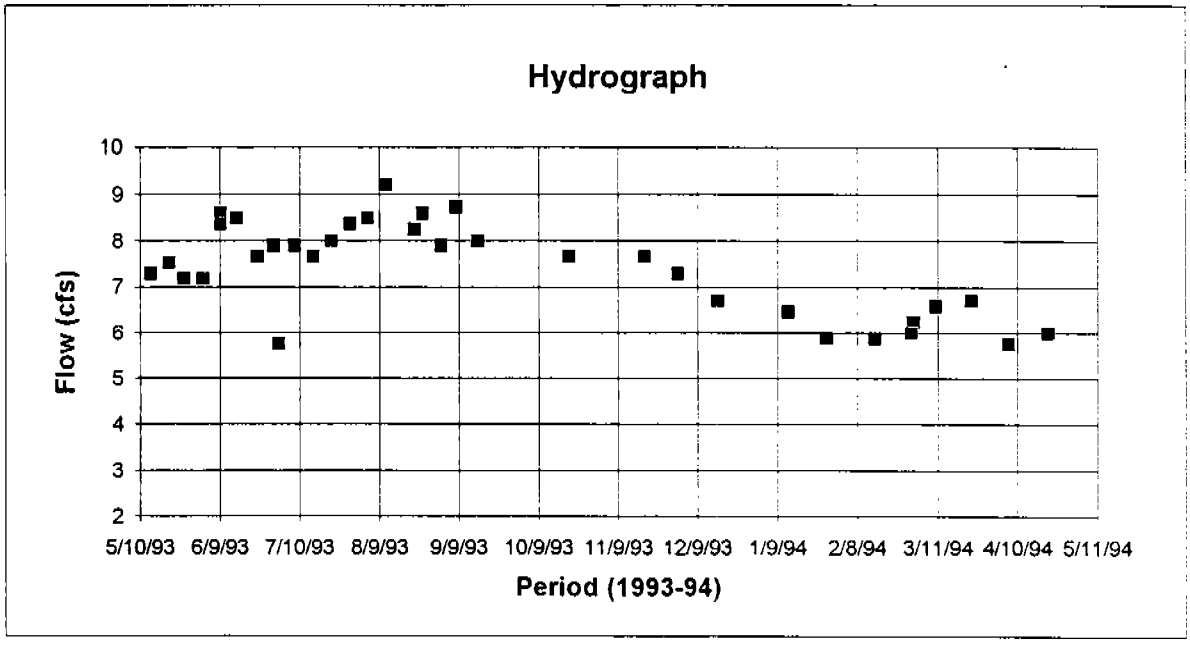
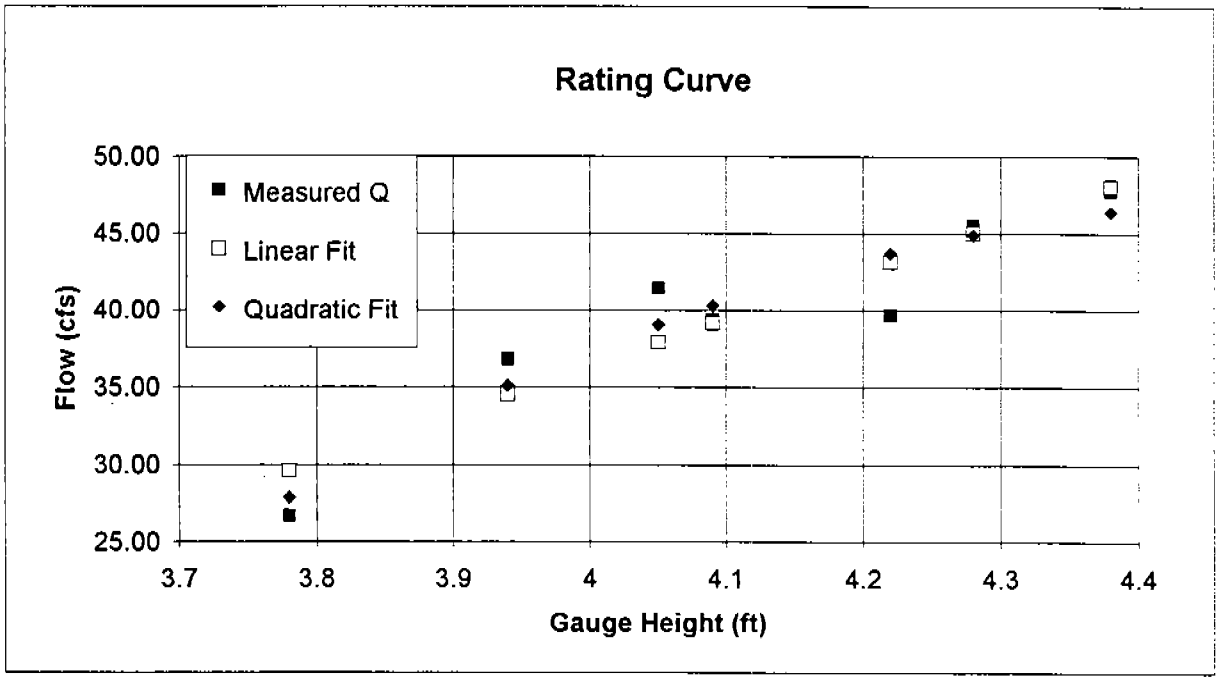


Figure 4. Rating Curve and Hydrograph for Willow Creek at Mouth



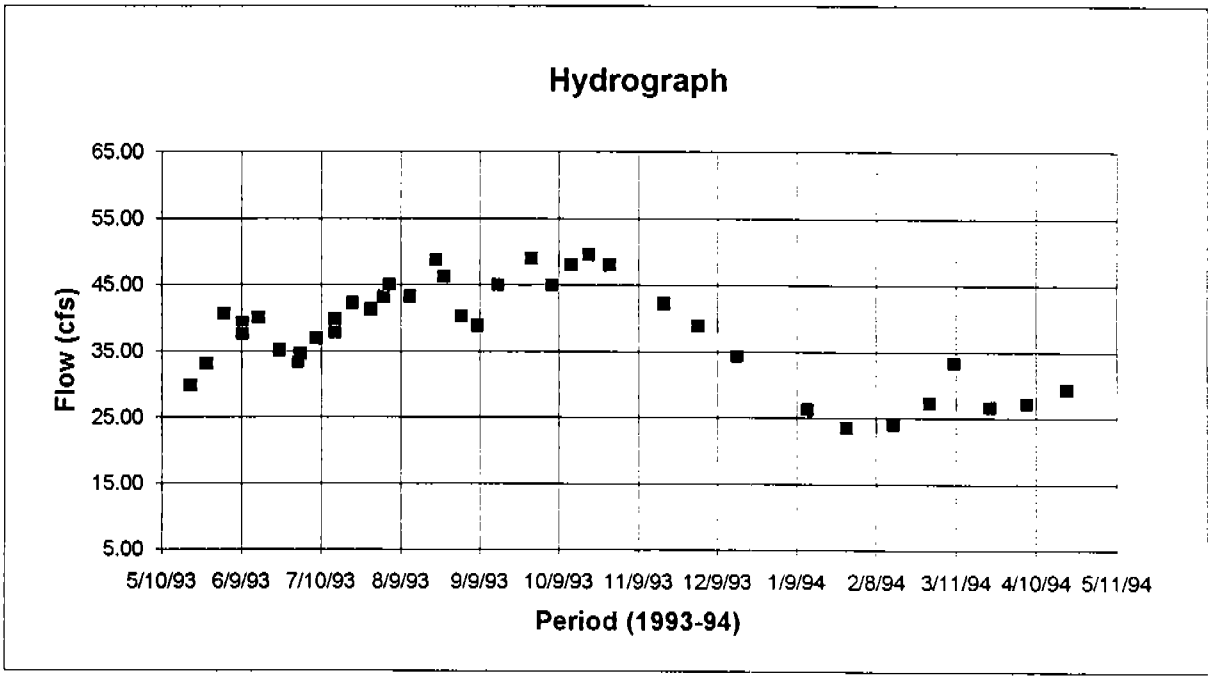
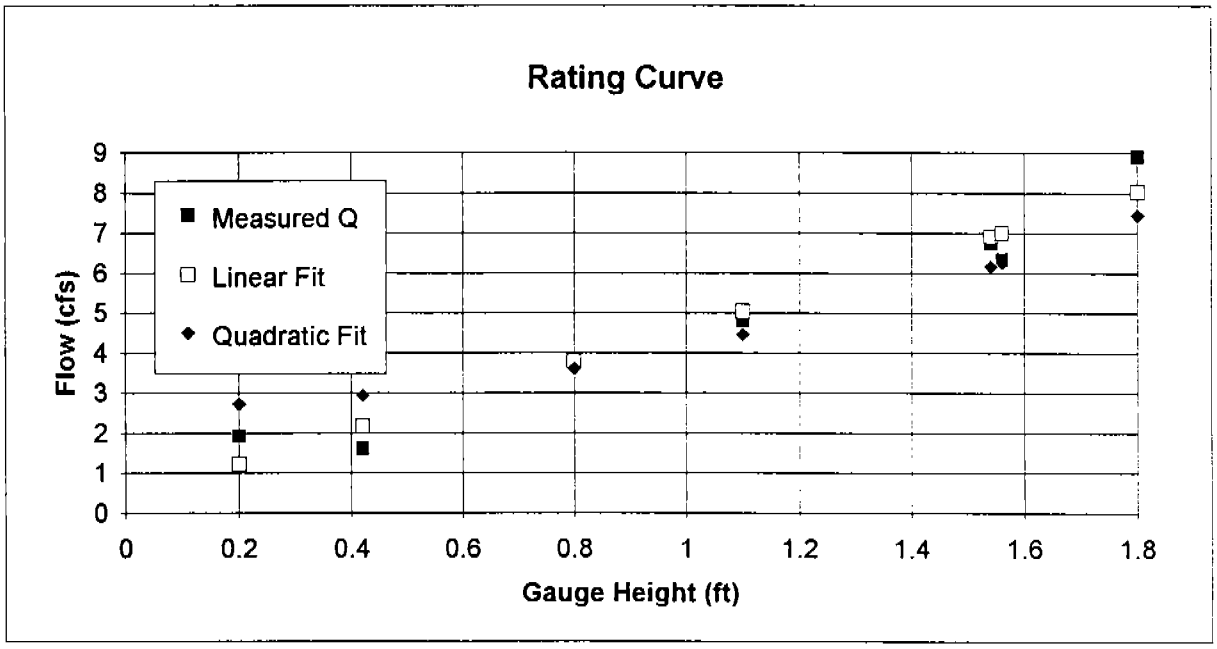


Figure 5. Rating Curve and Hydrograph for Willow Creek at Rest Area



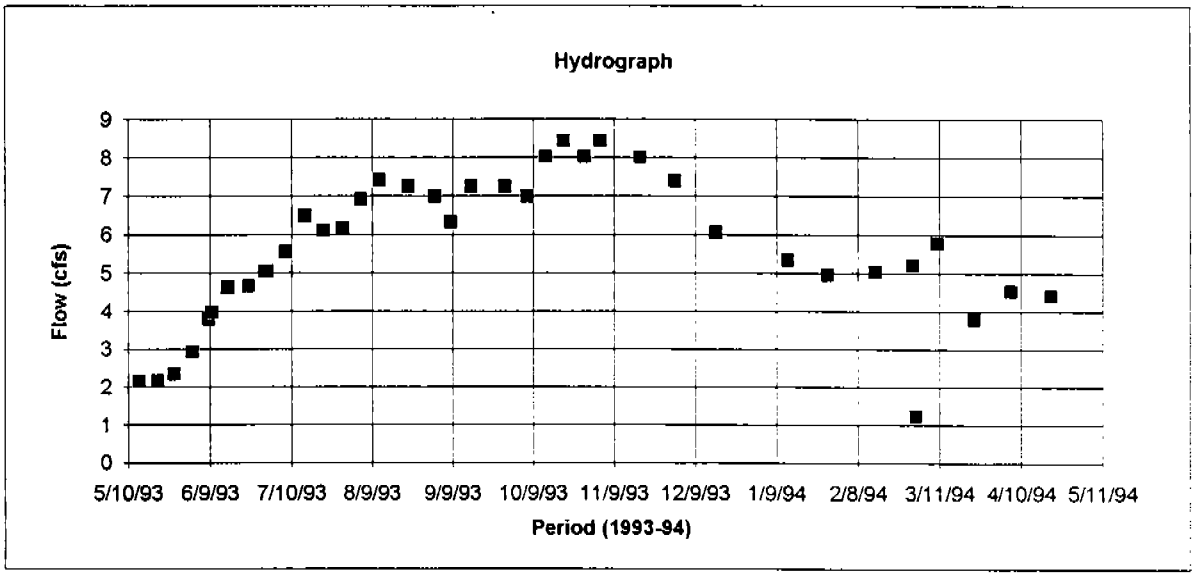
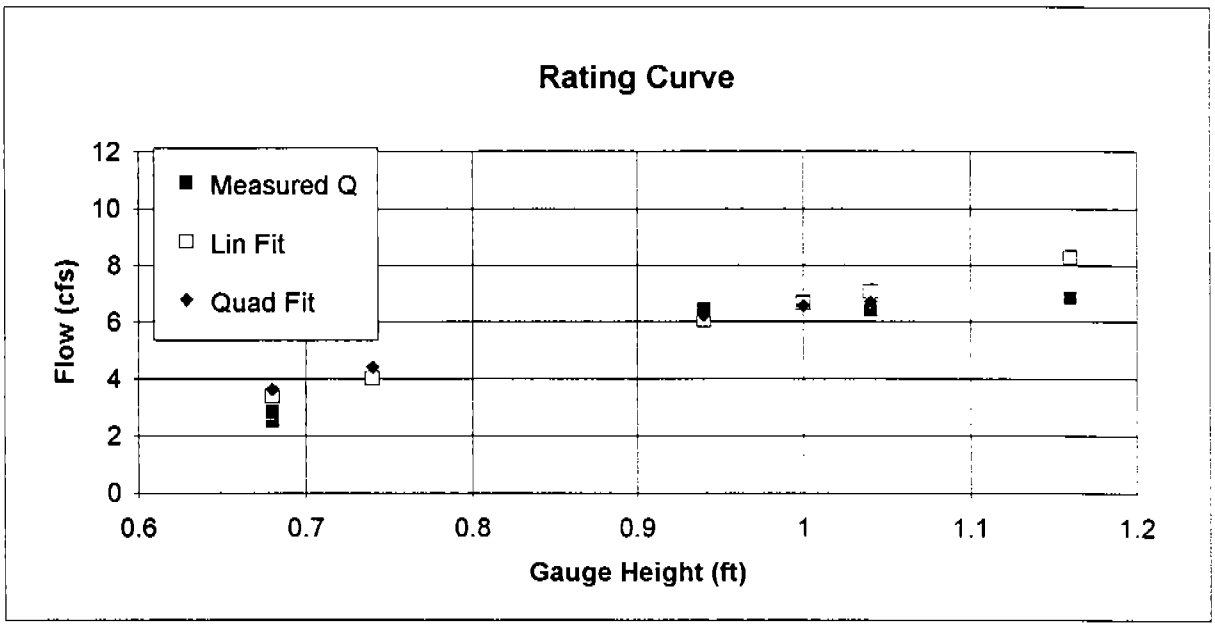


Figure 6. Rating Curve and Hydrograph for Buhler Drain



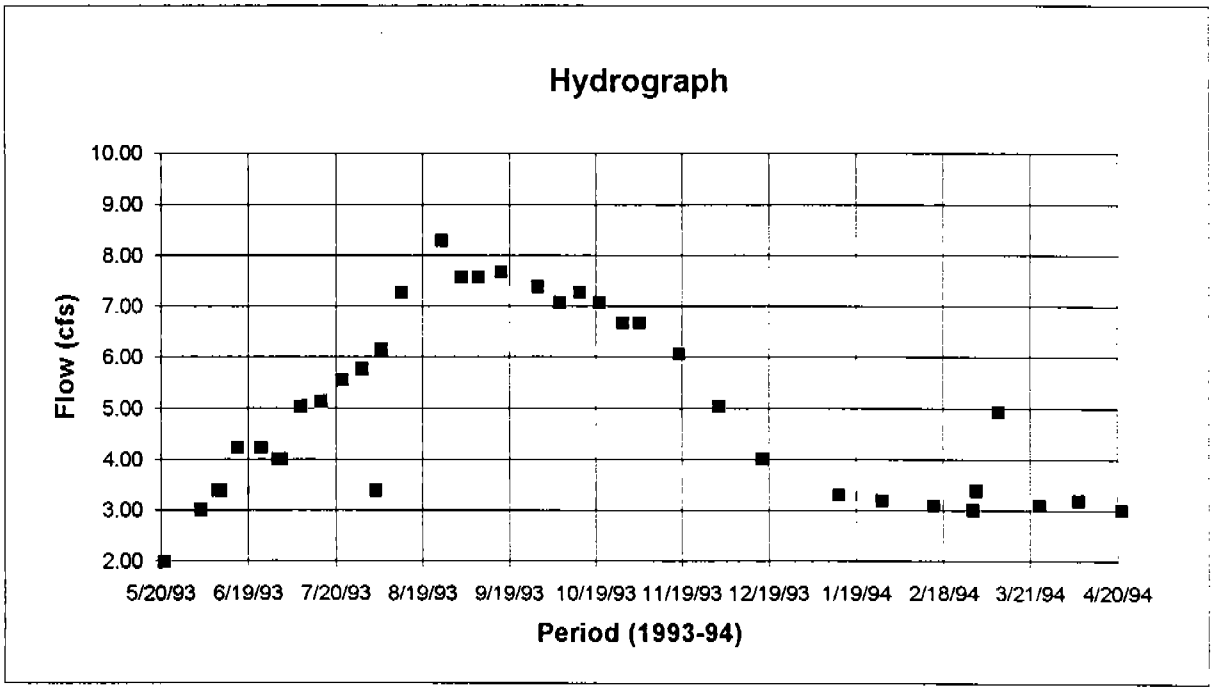
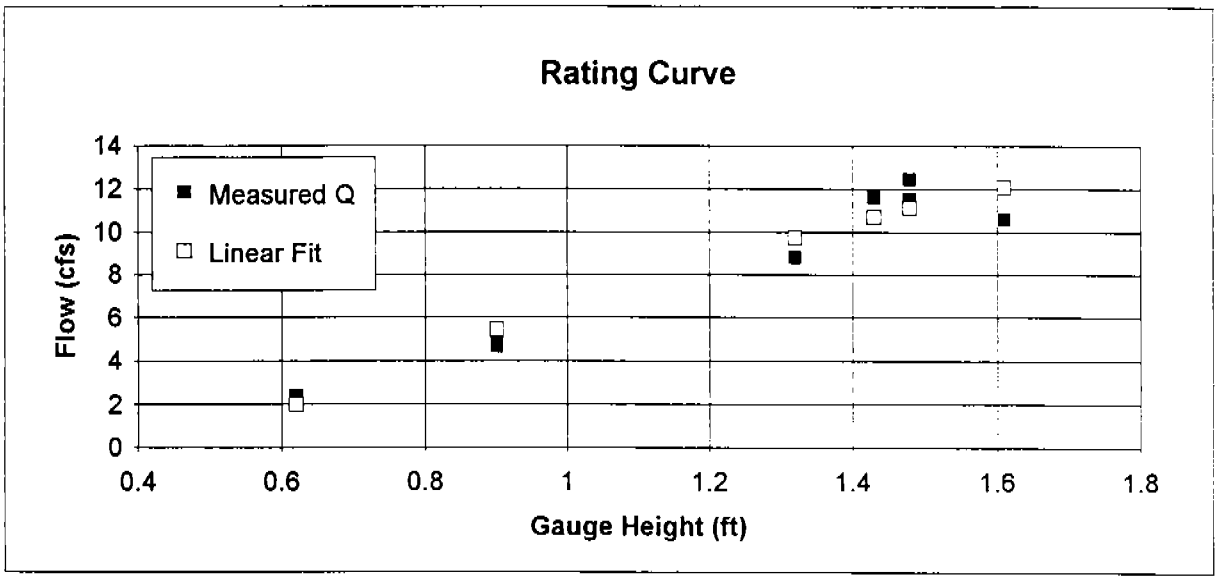


Figure 7. Rating Curve and Hydrograph for Patton Creek



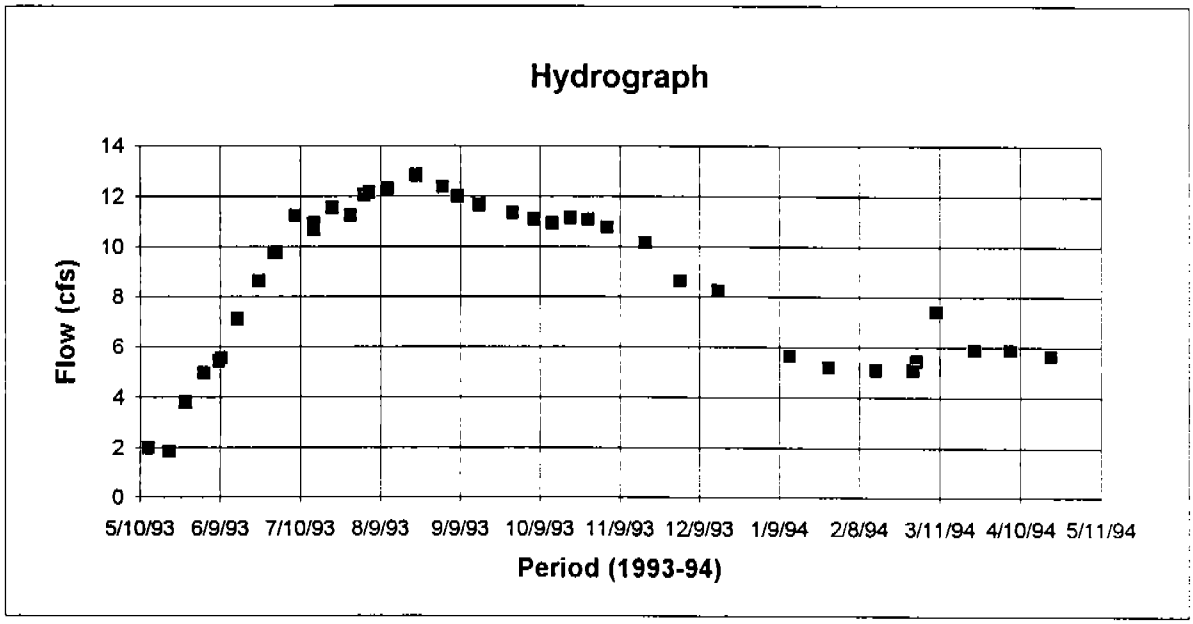
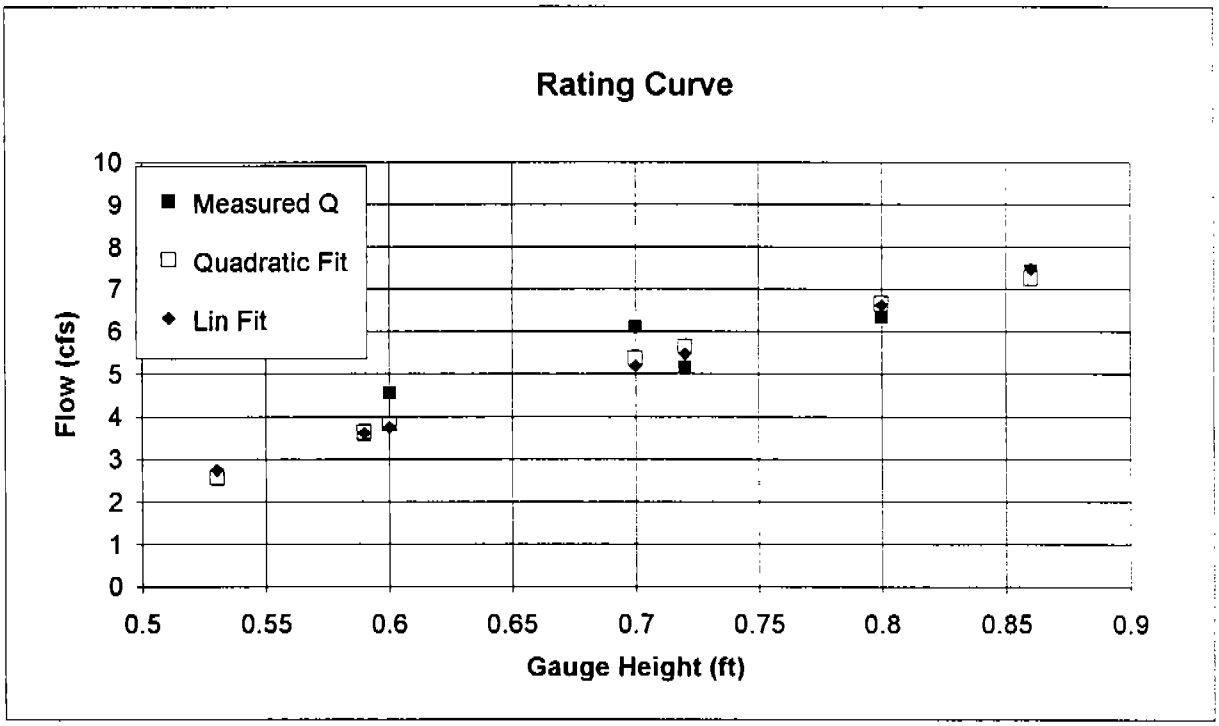


Figure 8. Rating Curve and Hydrograph for Cain Creek



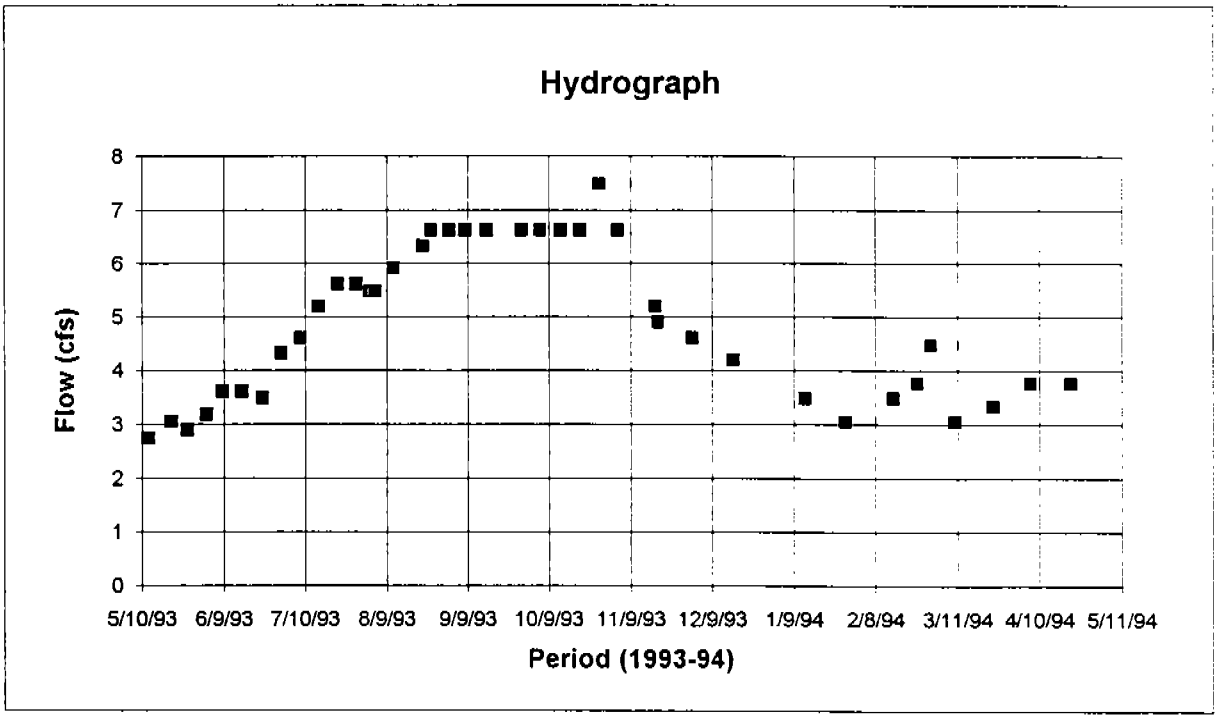
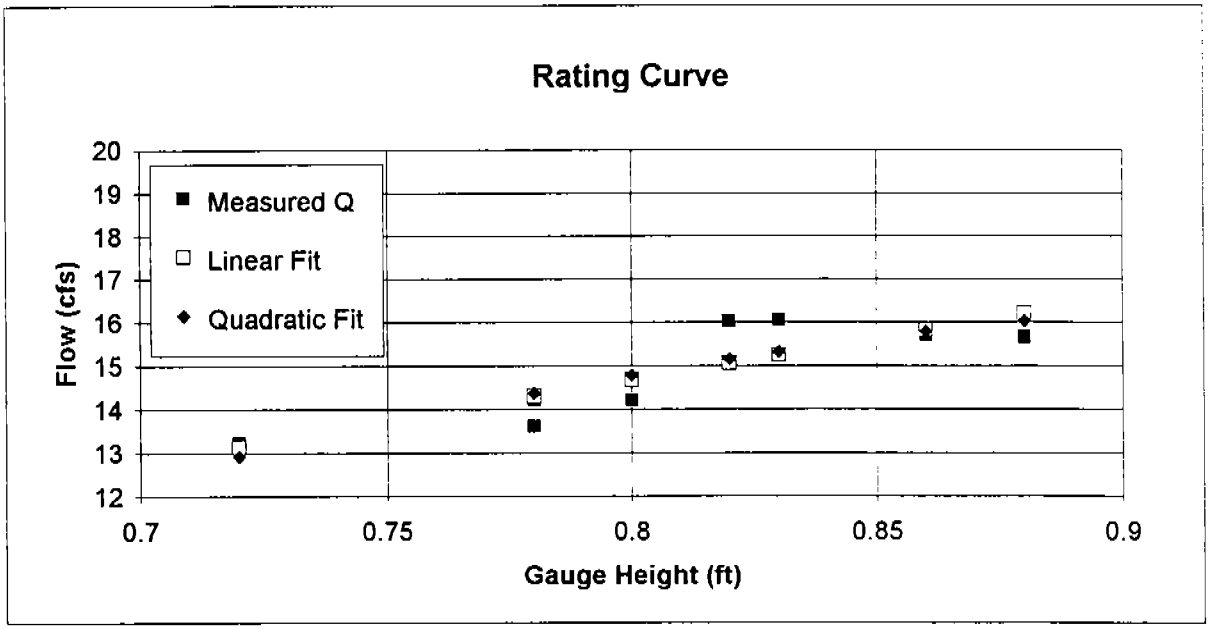


Figure 9. Rating Curve and Hydrograph for Channey Creek



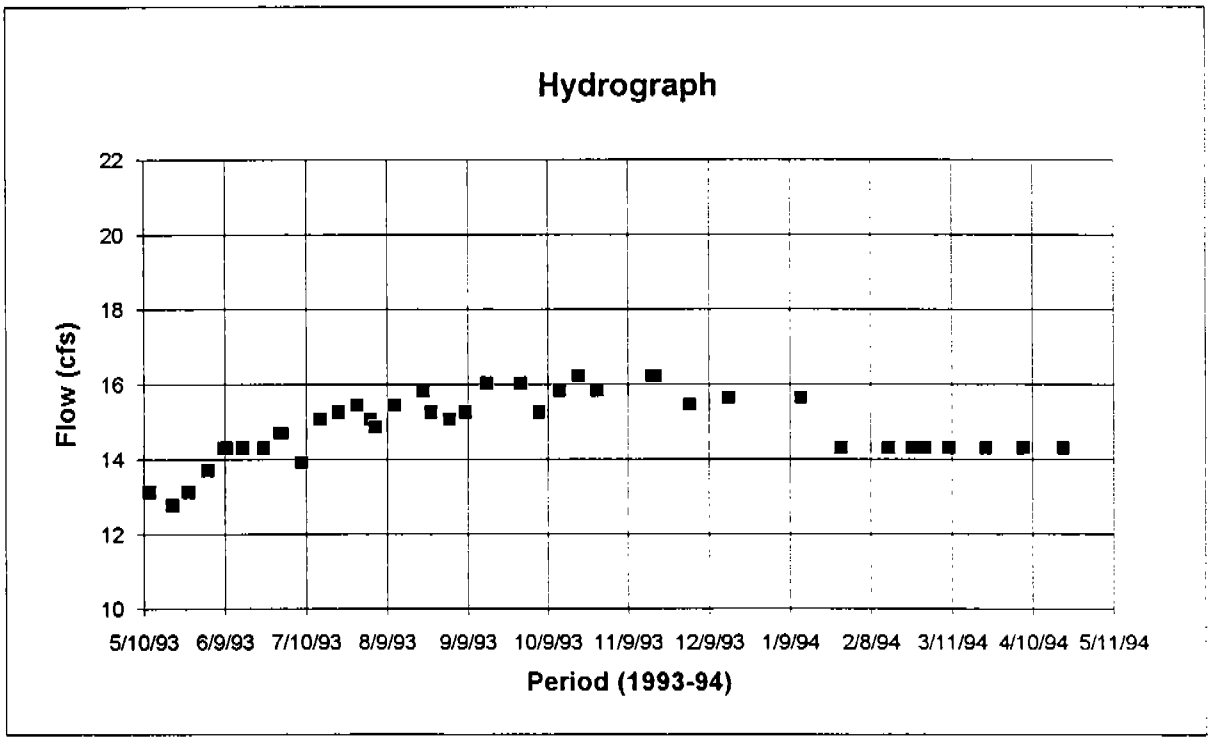
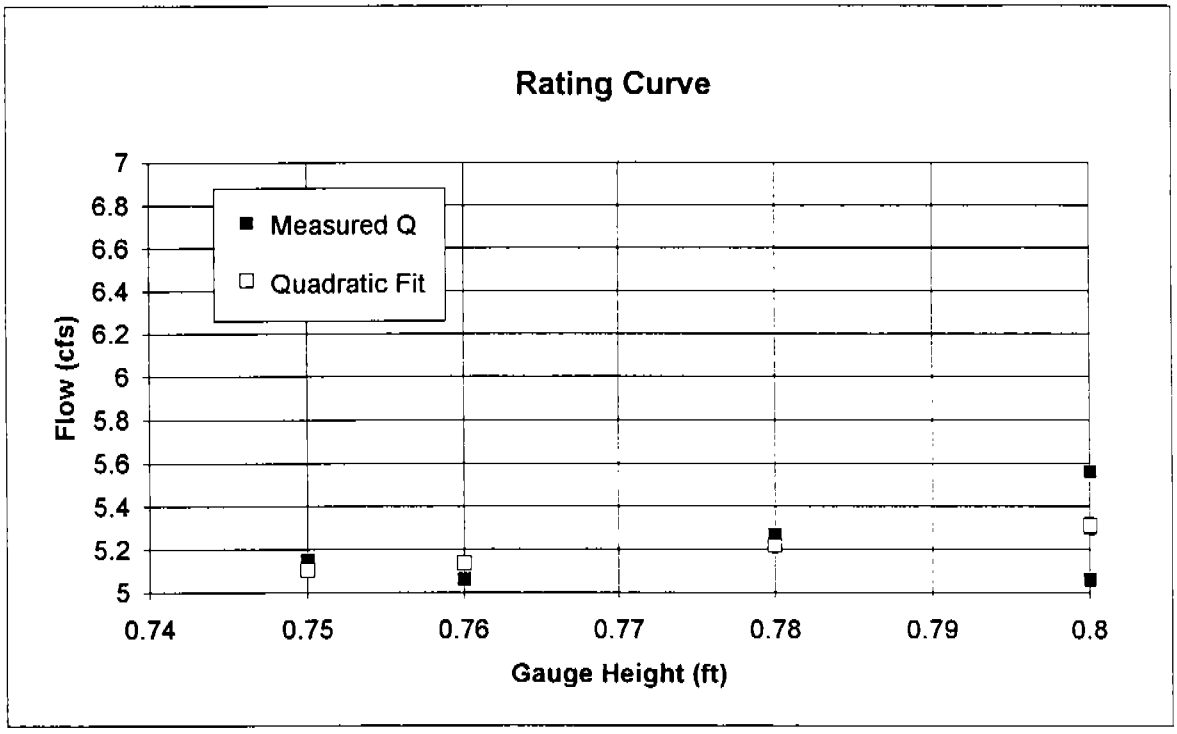


Figure 10. Rating Curve and Hydrograph for Mud Creek



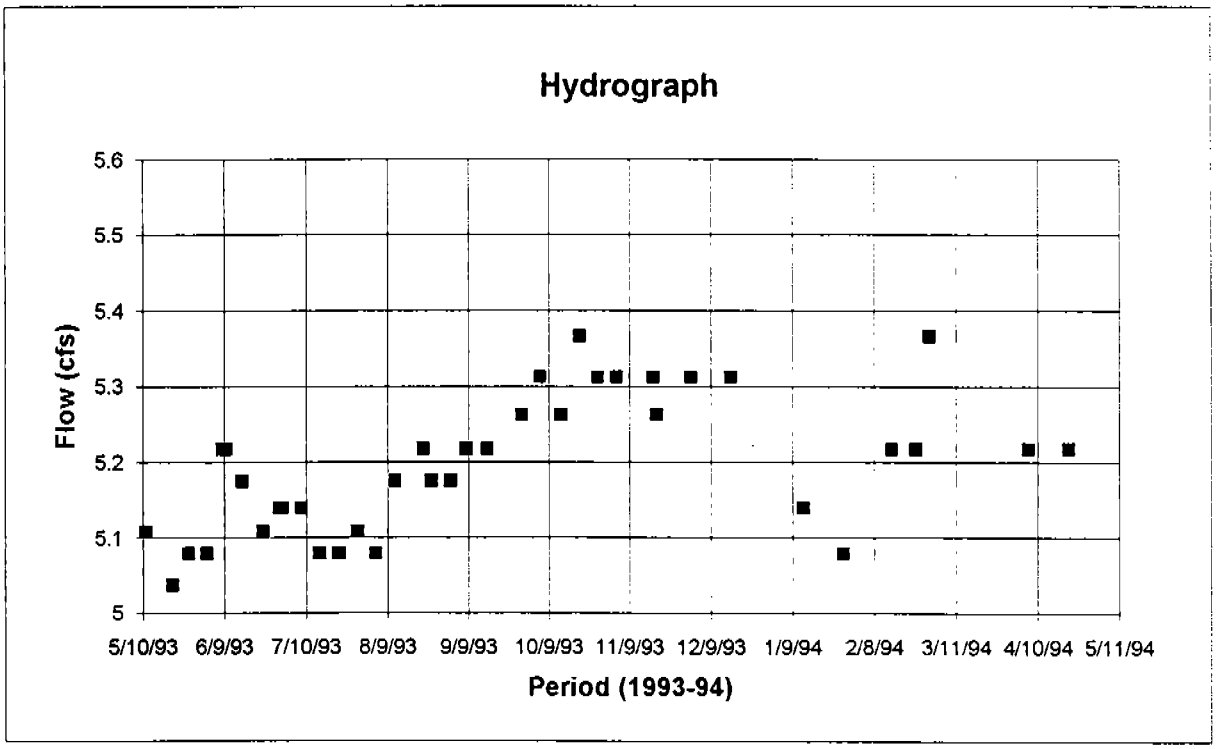
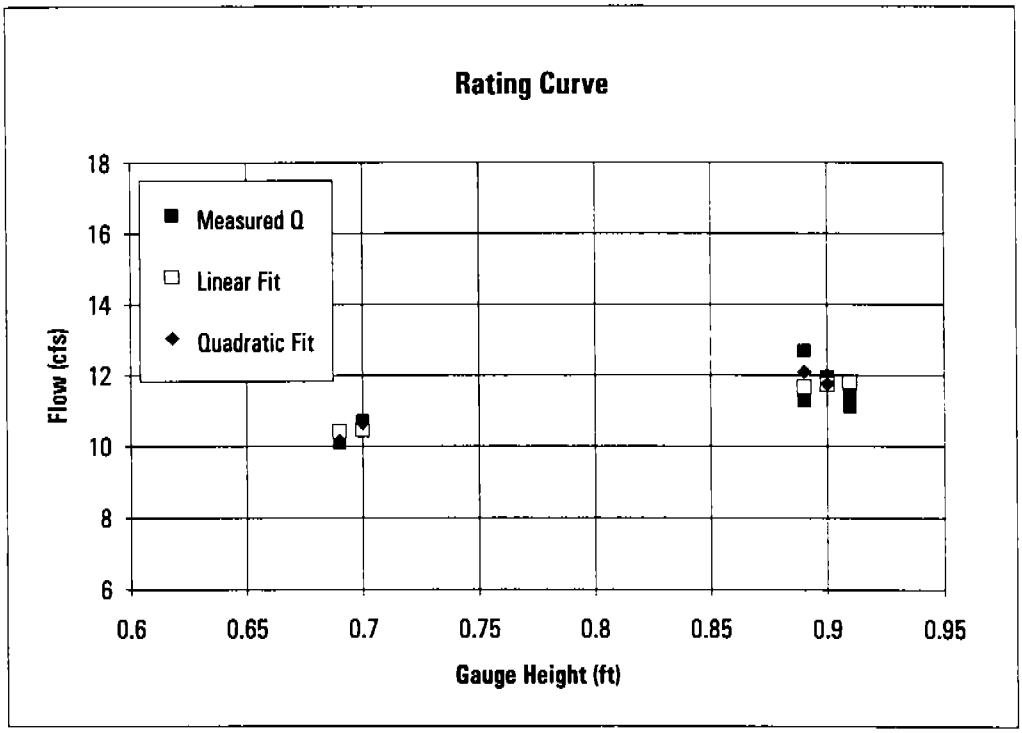


Figure 11. Rating Curve and Hydrograph for Wilson Creek



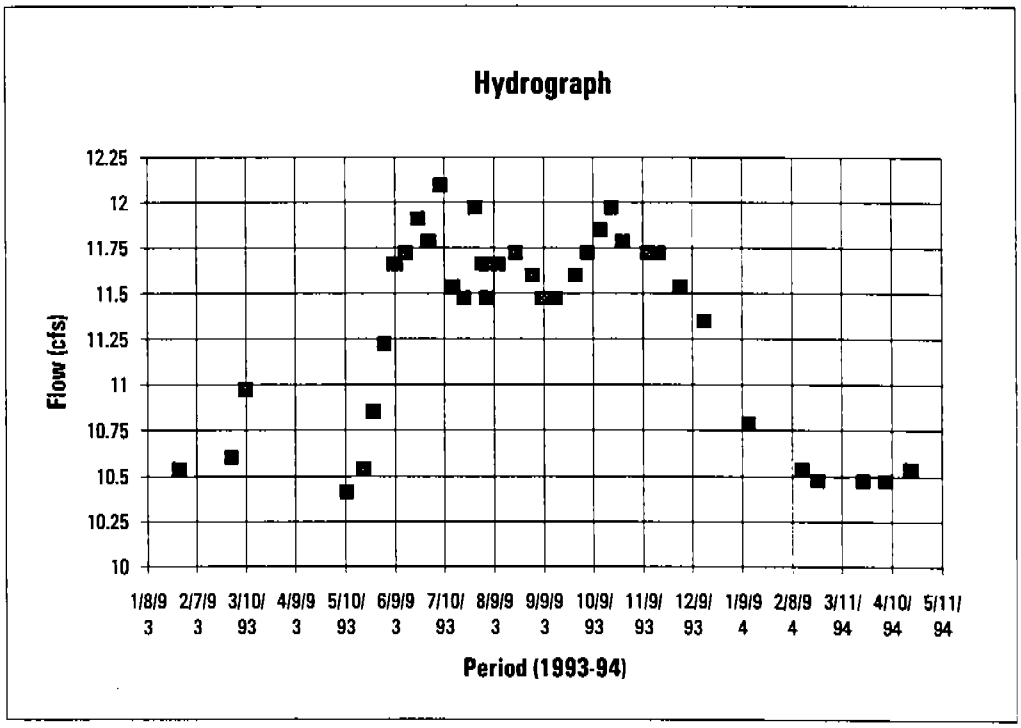
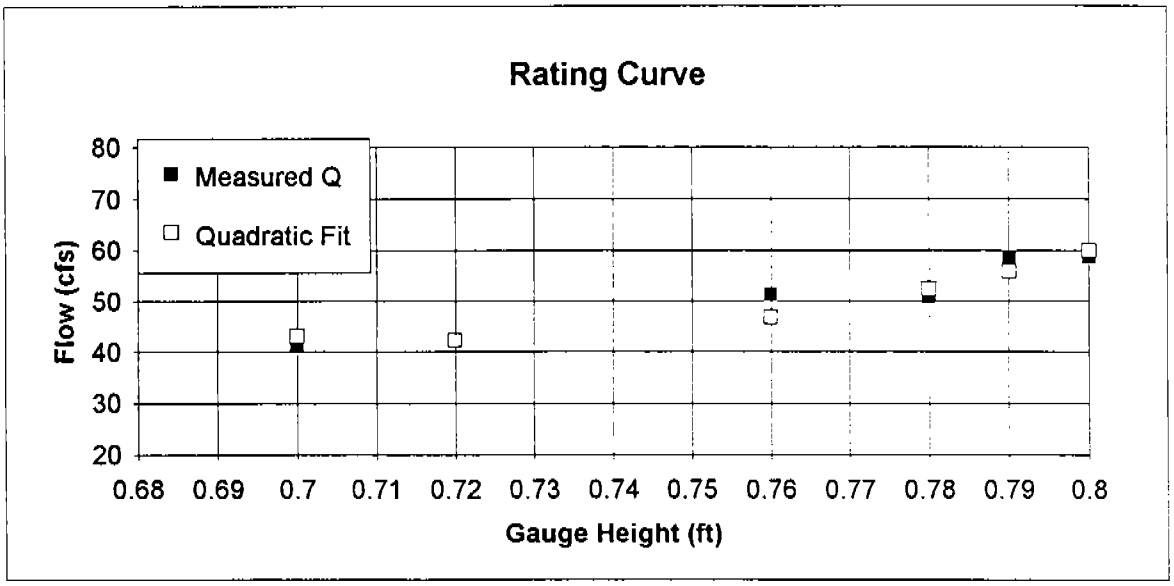


Figure 12. Rating Curve and Hydrograph for Grove Creek



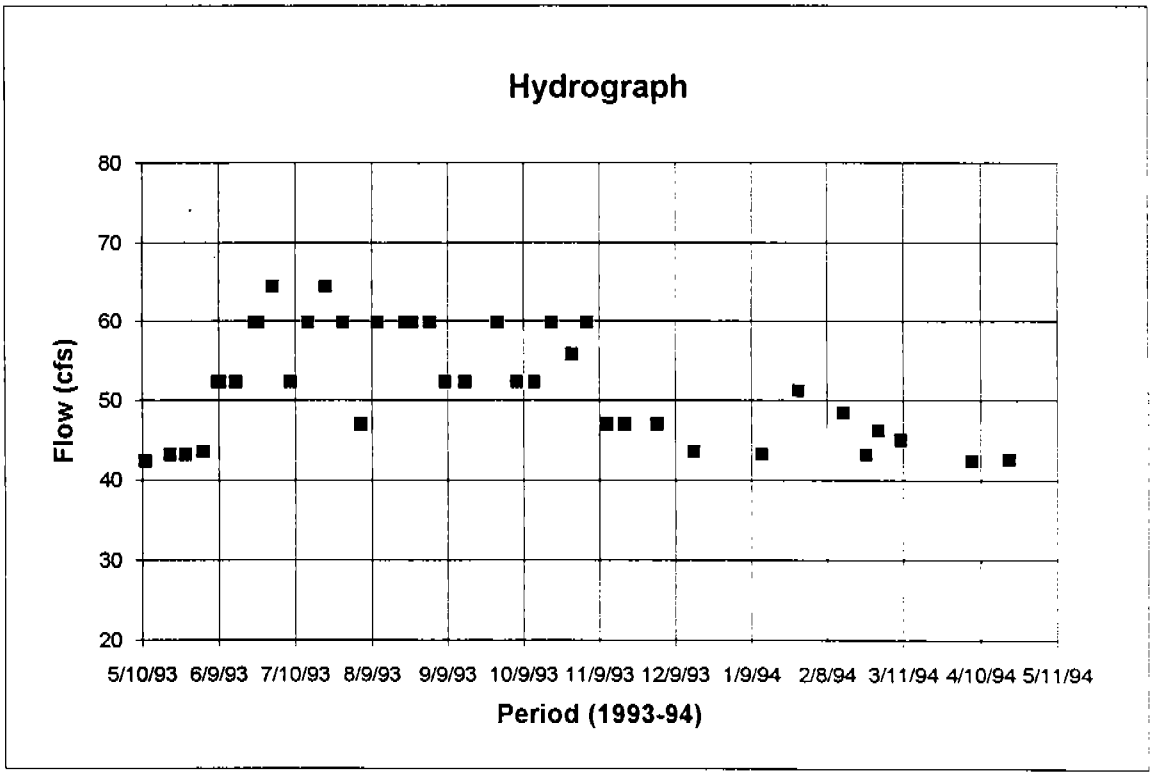
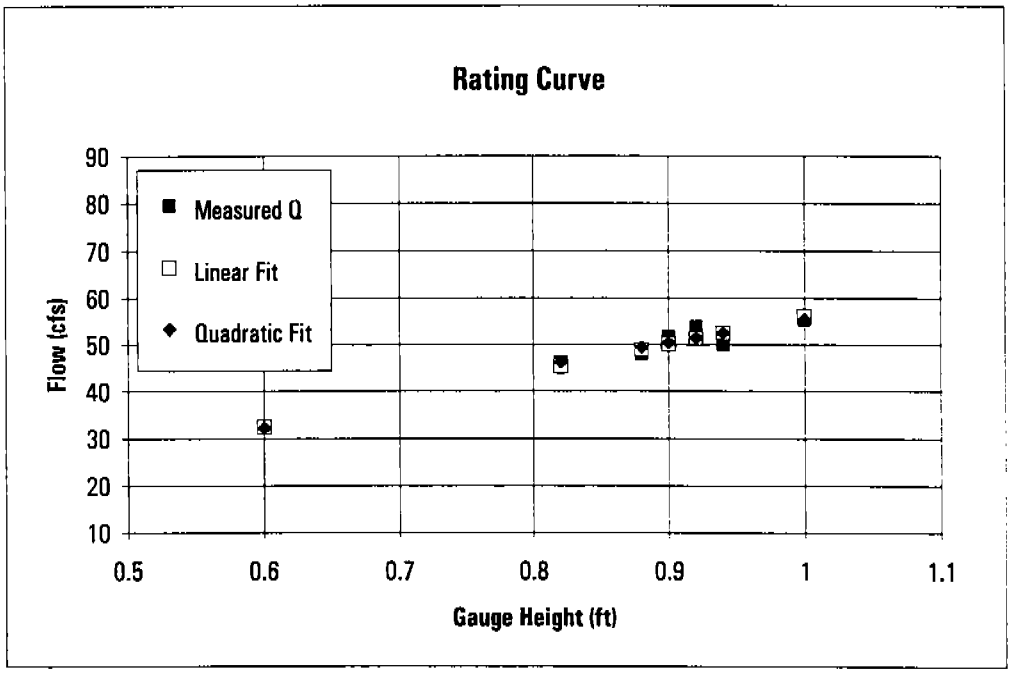


Figure 13. Rating Curve and Hydrograph for Loving Creek



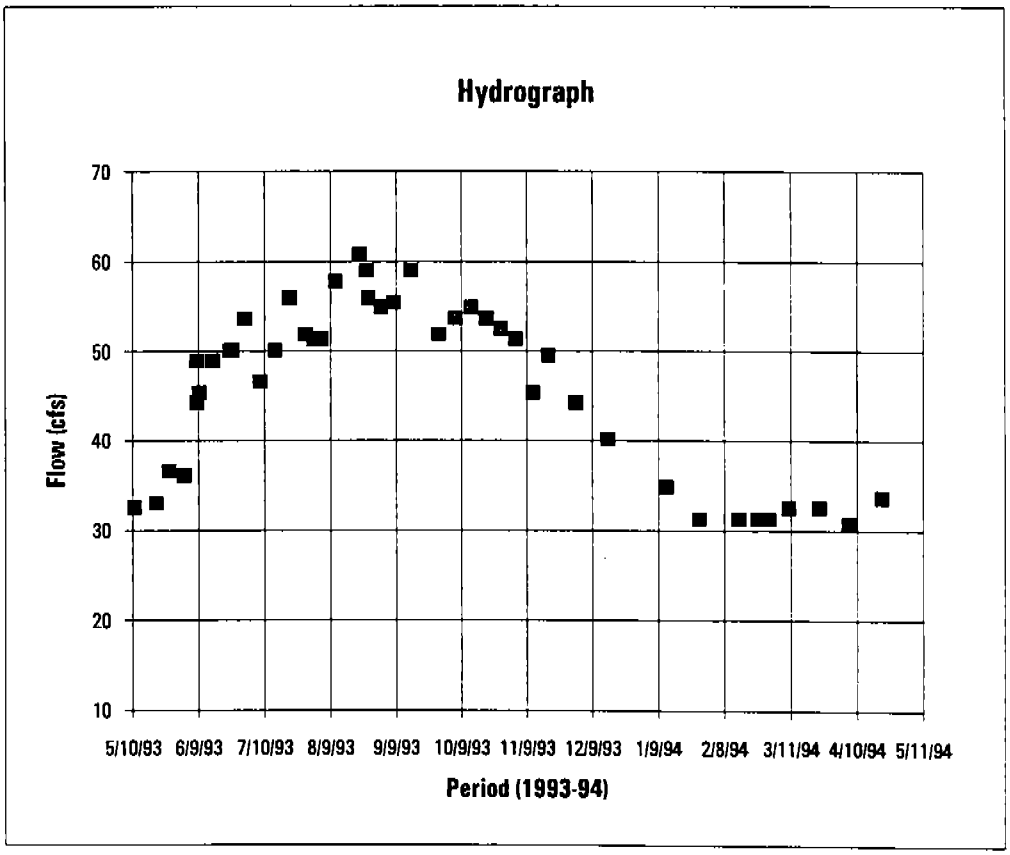
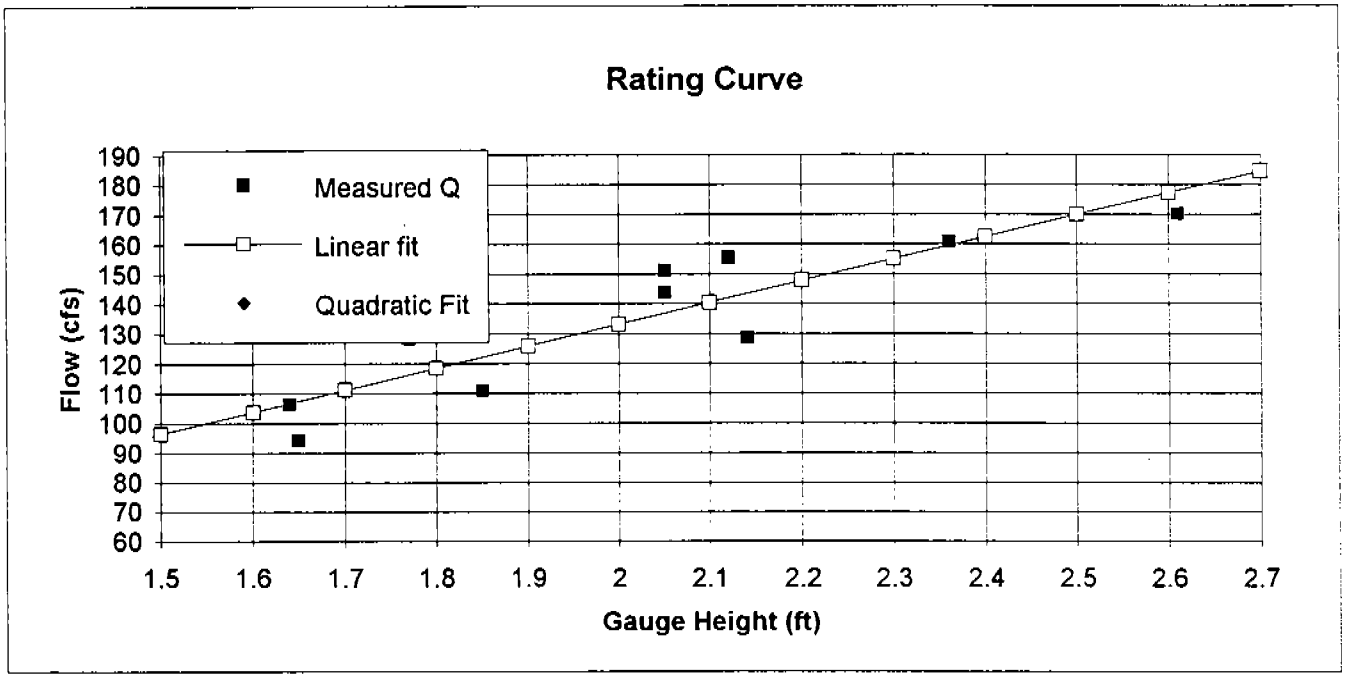


Figure 14. Rating Curve and Hydrograph for Silver Creek at Swanson Bridge



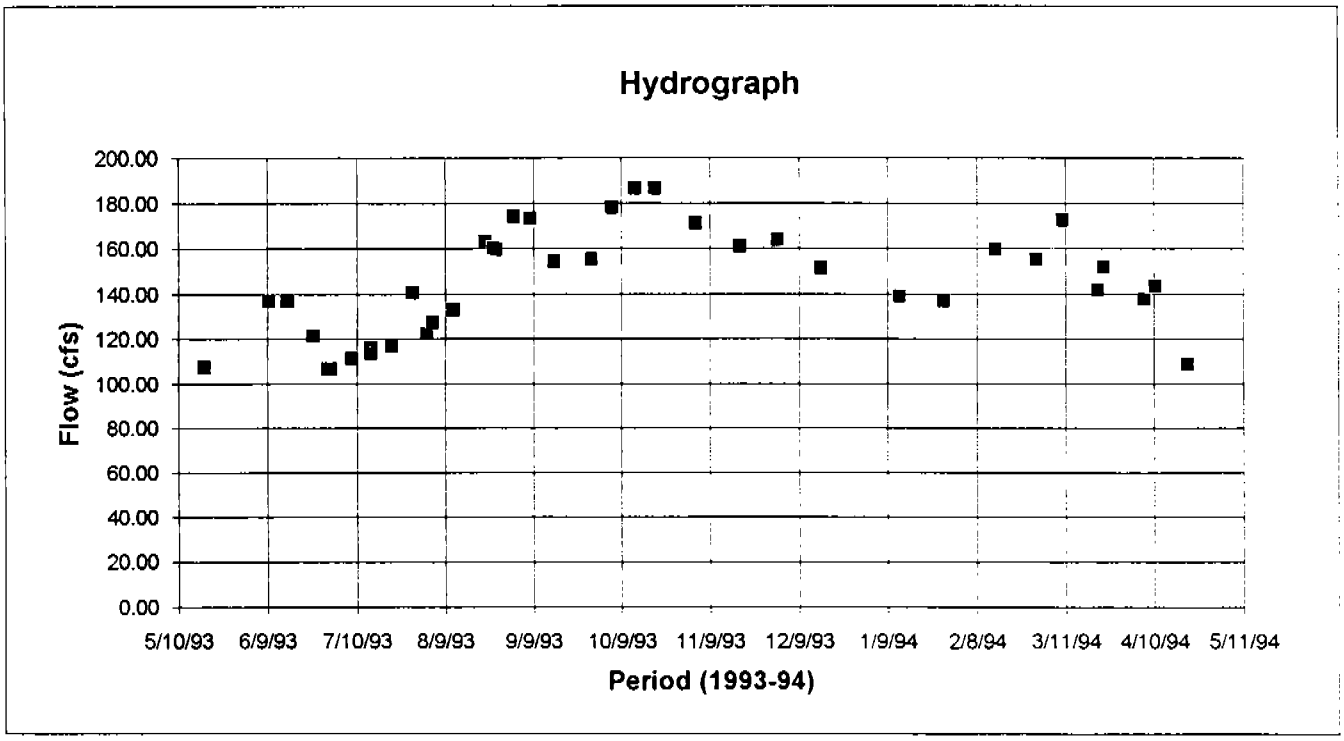
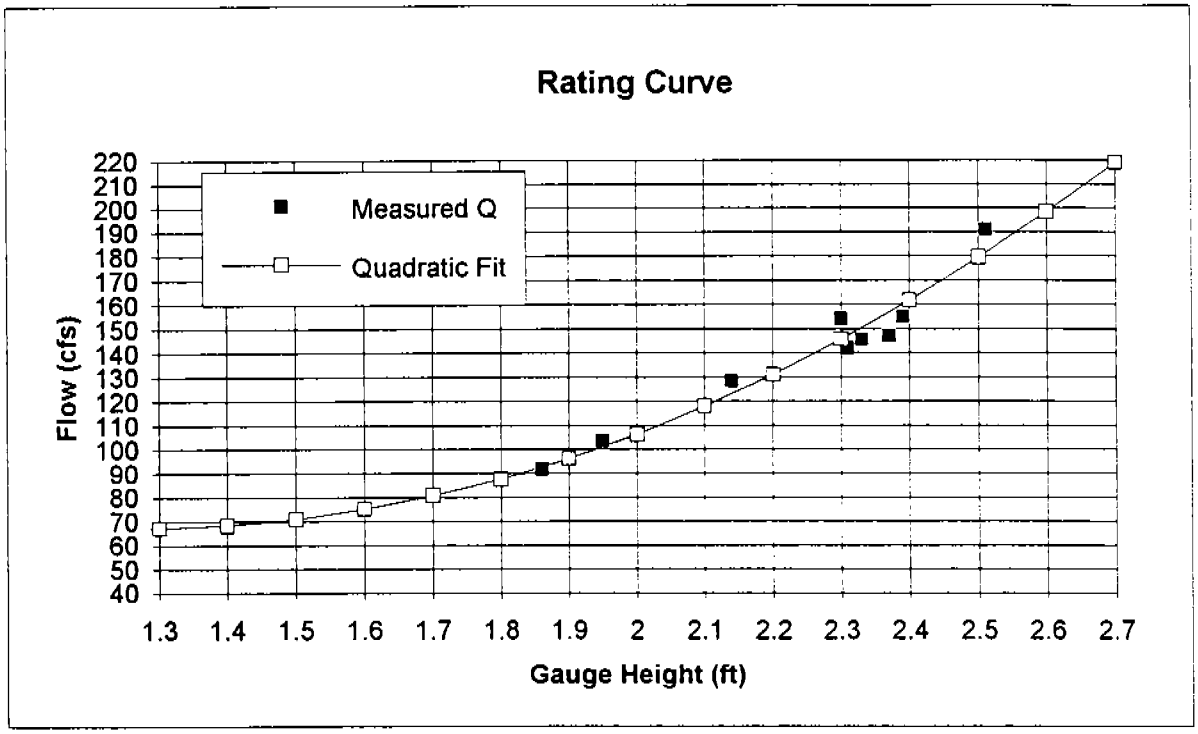
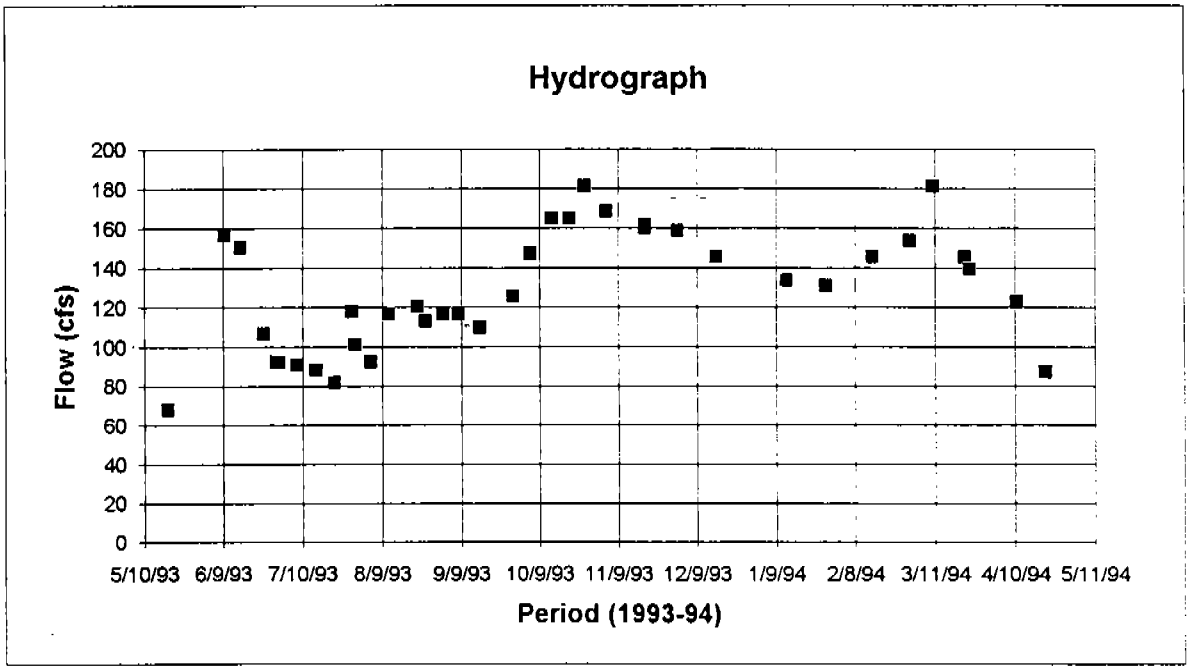


Figure 15. Rating Curve and Hydrograph for SIlver Creek at Priest Road





Appendix D

Meteorological Data

Meterological Data at Picabo Agrimet Weather Station

EJ EJ WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	0.15	0.25	0.29	0.30	0.00
2	---	---	---	---	---	---	---	0.21	0.04	0.11	0.32	0.00
3	---	---	---	---	---	---	---	0.06	0.08	0.21	0.33	0.00
4	---	---	---	---	---	---	---	---	0.08	0.20	0.19	0.00
5	---	---	---	---	---	---	---	0.07	0.08	0.27	0.29	0.00
6	---	---	---	---	---	---	---	0.11	0.04	0.28	0.30	0.00
7	---	---	---	---	---	---	---	0.18	0.12	0.28	0.11	0.00
8	---	---	---	---	---	---	---	0.13	0.20	0.28	0.28	0.00
9	---	---	---	---	---	---	---	0.19	0.23	0.31	0.24	0.00
10	---	---	---	---	---	---	---	0.27	0.12	0.32	0.30	0.00
11	---	---	---	---	---	---	---	0.32	0.16	0.31	0.20	0.00
12	---	---	---	---	---	---	---	0.37	0.21	0.29	0.16	0.00
13	---	---	---	---	---	---	---	0.31	0.26	0.27	0.25	0.00
14	---	---	---	---	---	---	---	0.16	0.29	0.25	0.18	0.00
15	---	---	---	---	---	---	---	0.25	0.23	0.26	0.20	0.00
16	---	---	---	---	---	---	---	0.23	0.17	0.25	0.17	0.00
17	---	---	---	---	---	---	---	0.25	0.28	0.23	0.23	0.00
18	---	---	---	---	---	---	---	0.28	0.31	0.27	0.25	0.00
19	---	---	---	---	---	---	---	0.30	0.34	0.28	0.28	0.00
20	---	---	---	---	---	---	---	0.29	0.35	0.25	0.19	0.00
21	---	---	---	---	---	---	0.18	0.24	0.19	0.20	0.19	0.00
22	---	---	---	---	---	---	0.08	0.25	0.24	0.09	0.24	0.00
23	---	---	---	---	---	---	0.15	0.26	0.22	0.06	0.26	0.00
24	---	---	---	---	---	---	0.16	0.27	0.26	0.25	0.23	0.00
25	---	---	---	---	---	---	0.08	0.29	0.29	0.26	0.19	0.00
26	---	---	---	---	---	---	0.17	0.29	0.36	0.23	0.19	0.00
27	---	---	---	---	---	---	0.13	0.29	0.34	0.27	0.23	0.00
28	---	---	---	---	---	---	0.17	0.23	0.27	0.33	0.24	0.00
29	---	---	---	---	---	---	0.07	0.27	0.20	0.34	0.20	0.00
30	---	---	---	---	---	---	0.12	0.24	0.25	0.31	0.21	0.00
31	---	---	---	---	---	---	---	0.23	---	0.31	0.23	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	1.31	6.99	6.46	7.86	7.18	5.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.23	0.22	0.25	0.23	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.37	0.36	0.34	0.33	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.06	0.04	0.06	0.11	0.00

WTR YR 1993 TOTAL 34.83 MEAN 0.22 MAX 0.37 MIN 0.04

PICABO

ET ET WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	0.16	0.27	0.27	0.28	0.00
2	---	---	---	---	---	---	---	0.20	0.10	0.19	0.27	0.00
3	---	---	---	---	---	---	---	0.10	0.12	0.25	0.29	0.00
4	---	---	---	---	---	---	---	---	0.10	0.21	0.20	0.00
5	---	---	---	---	---	---	---	0.11	0.10	0.27	0.26	0.00
6	---	---	---	---	---	---	---	0.12	0.06	0.27	0.29	0.00
7	---	---	---	---	---	---	---	0.19	0.14	0.30	0.14	0.00
8	---	---	---	---	---	---	---	0.17	0.19	0.25	0.26	0.00
9	---	---	---	---	---	---	---	0.19	0.20	0.30	0.26	0.00
10	---	---	---	---	---	---	---	0.26	0.14	0.32	0.27	0.00
11	---	---	---	---	---	---	---	0.27	0.20	0.29	0.20	0.00
12	---	---	---	---	---	---	---	0.30	0.25	0.33	0.20	0.00
13	---	---	---	---	---	---	---	0.28	0.26	0.27	0.24	0.00
14	---	---	---	---	---	---	---	0.26	0.26	0.27	0.23	0.00
15	---	---	---	---	---	---	---	0.27	0.23	0.27	0.22	0.00
16	---	---	---	---	---	---	---	0.25	0.18	0.25	0.18	0.00
17	---	---	---	---	---	---	---	0.24	0.25	0.25	0.21	0.00
18	---	---	---	---	---	---	---	0.27	0.27	0.26	0.22	0.00
19	---	---	---	---	---	---	---	0.26	0.27	0.28	0.26	0.00
20	---	---	---	---	---	---	---	0.27	0.31	0.25	0.25	0.00
21	---	---	---	---	---	---	0.16	0.27	0.25	0.22	0.22	0.00
22	---	---	---	---	---	---	0.09	0.28	0.28	0.13	0.23	0.00
23	---	---	---	---	---	---	0.17	0.25	0.29	0.08	0.25	0.00
24	---	---	---	---	---	---	0.18	0.25	0.28	0.22	0.24	0.00
25	---	---	---	---	---	---	0.10	0.30	0.25	0.24	0.21	0.00
26	---	---	---	---	---	---	0.19	0.26	0.28	0.22	0.21	0.00
27	---	---	---	---	---	---	0.15	0.29	0.30	0.24	0.24	0.00
28	---	---	---	---	---	---	0.18	0.27	0.30	0.31	0.24	0.00
29	---	---	---	---	---	---	0.13	0.28	0.28	0.29	0.20	0.00
30	---	---	---	---	---	---	0.14	0.27	0.28	0.28	0.23	0.00
31	---	---	---	---	---	---	---	0.29	---	0.30	0.24	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	1.49	7.18	6.69	7.88	7.24	5.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.24	0.22	0.25	0.23	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.30	0.31	0.33	0.29	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.10	0.06	0.08	0.14	0.00

WTR YR 1993 TOTAL 35.77 MEAN 0.22 MAX 0.33 MIN 0.06

		PICABO											
MM	MM	WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993											
		MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65.10	42.61	26.58	30.24	12.99	5.15	41.59	47.21	56.15	60.89	66.29	63.00
2	63.29	41.16	29.43	10.12	10.60	13.56	39.84	53.63	47.76	56.15	68.80	59.00
3	48.75	32.46	19.93	-4.19	12.69	12.03	41.10	46.64	47.95	54.31	69.23	65.00
4	49.46	30.12	1.74	11.57	17.91	24.24	42.46	36.25	47.57	54.85	67.57	65.00
5	49.48	31.92	5.05	10.05	18.95	28.19	35.02	44.38	52.18	57.26	70.11	66.00
6	47.97	34.70	10.02	9.90	26.41	26.46	36.76	49.15	48.23	57.79	67.44	67.00
7	42.35	37.76	29.60	14.43	26.08	29.70	39.82	44.41	48.39	58.54	59.92	64.00
8	48.57	32.38	30.76	21.61	27.98	25.55	43.96	44.05	51.63	58.59	63.36	64.00
9	48.10	31.28	31.11	23.21	29.50	27.68	42.39	46.30	54.67	63.47	67.07	64.00
10	46.91	24.15	31.28	17.13	29.58	31.19	33.56	58.89	53.68	63.27	69.81	67.00
11	54.39	26.09	31.36	17.58	29.87	31.23	33.27	68.79	50.47	63.12	63.61	66.00
12	57.58	31.40	15.39	4.40	21.35	25.63	33.35	73.43	47.09	58.94	62.95	50.00
13	53.74	33.34	9.51	23.84	16.45	26.96	36.92	68.43	53.65	56.98	62.29	44.00
14	43.33	35.55	10.58	34.08	15.73	32.47	39.19	61.75	62.84	58.17	62.09	50.00
15	38.53	37.48	12.12	21.94	18.93	38.74	40.90	62.27	60.38	58.81	62.29	54.00
16	45.79	37.58	6.85	26.56	8.09	37.93	43.39	62.46	51.78	57.94	55.92	57.00
17	47.90	35.73	16.54	13.62	12.69	35.66	45.68	61.49	58.93	57.46	57.14	53.00
18	48.58	34.52	2.65	28.51	29.61	37.93	40.86	63.60	61.30	57.72	64.15	50.00
19	51.63	34.68	1.48	24.02	34.26	37.33	39.85	65.53	66.61	65.10	72.89	52.00
20	54.24	30.97	19.25	30.32	24.35	38.43	17.91	65.64	71.82	62.39	74.97	51.00
21	53.25	23.48	24.09	30.82	22.10	31.86	50.82	61.15	63.38	59.24	60.57	45.00
22	48.56	29.68	28.37	22.77	19.50	36.91	47.81	56.52	54.28	54.84	60.11	48.00
23	48.99	24.87	20.86	10.39	22.60	41.46	44.10	56.75	49.92	53.29	65.03	50.00
24	52.39	16.52	15.39	15.22	23.37	41.79	46.03	62.73	54.44	56.92	59.03	52.00
25	52.97	9.53	5.66	16.69	16.81	42.34	45.69	68.93	60.81	58.29	52.05	56.00
26	49.55	9.05	14.99	9.39	4.60	44.89	46.13	63.45	69.29	57.89	53.17	54.00
27	49.26	15.97	30.06	7.91	5.27	40.85	43.65	64.21	69.40	59.85	59.07	59.00
28	47.80	23.33	33.71	13.37	0.00	41.45	47.67	63.83	63.46	69.72	62.08	58.00
29	45.04	19.45	32.04	11.33	---	39.46	43.52	61.17	54.50	74.26	55.94	61.00
30	40.74	23.12	20.60	4.49	---	38.81	45.65	63.76	56.51	66.49	56.03	60.00
31	39.98	---	18.29	11.32	---	41.56	---	65.77	---	66.23	60.46	---
TOTAL	15.00	70.88	5.00	22.64	5.00	7.44	12.00	12.57	16.00	58.77	19.00	27.00
MEAN	49.49	29.03	18.88	16.86	19.22	32.50	40.96	58.47	56.30	59.96	62.95	57.00
MAX	65.10	42.61	33.71	34.08	34.26	44.89	50.82	73.43	71.82	74.26	74.97	67.00
MIN	38.53	9.05	1.48	-4.19	0.00	5.15	17.91	36.25	47.09	53.29	52.05	44.00
WTR YR 1993 TOTAL		15327.45 MEAN			41.99 MAX		74.97 MIN		-4.19			

		PICABO										
MN	MN	WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993										
		MIN VALUES										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50.20	39.35	16.24	26.93	5.15	-7.50	33.45	32.08	42.35	41.67	42.11	47.00
2	46.11	32.43	6.69 -	11.90	-0.66	0.91	32.90	44.04	43.31	46.04	46.18	39.00
3	43.75	23.39	1.91 -	17.25	-0.18	3.11	29.92	38.20	43.69	41.98	49.23	44.00
4	41.00	22.45	-7.97	2.71	8.85	13.80	34.63	36.94	33.90	40.99	54.82	52.00
5	39.27	7.48 -	11.74	-4.90	4.21	23.55	20.25	35.71	49.23	42.70	51.56	51.00
6	35.26	30.70	-6.47	1.69	22.37	21.74	28.03	40.42	43.63	36.31	45.55	46.00
7	26.93	30.78	22.92	-1.76	5.31	20.09	29.13	36.01	41.40	41.26	49.49	43.00
8	35.73	27.72	28.03	11.60	20.48	14.19	29.21	32.38	38.47	38.61	45.16	46.00
9	33.85	23.16	21.98	9.00	27.87	17.65	34.48	27.59	37.97	42.63	46.97	40.00
10	30.70	14.04	24.18	-0.26	27.56	25.83	25.59	38.94	45.30	45.41	51.56	46.00
11	35.42	16.32	20.95	2.64	23.63	26.14	22.92	45.12	40.42	40.82	48.68	48.00
12	41.24	27.17	1.06 -	11.43	6.72	19.46	26.38	48.75	31.18	43.38	46.68	32.00
13	40.29	28.11	-2.78	16.55	6.25	19.15	24.10	50.46	34.09	33.17	43.90	26.00
14	28.50	24.57	3.19	29.05	3.11	27.24	29.76	50.01	43.00	43.80	46.97	33.00
15	24.96	26.85	-6.79	7.04	12.78	34.48	30.31	48.38	47.08	43.80	51.22	34.00
16	30.23	27.48	-4.51	17.26	-7.65	33.93	29.68	49.27	37.64	43.97	43.11	42.00
17	33.30	31.57	-0.50	3.11	-4.12	33.38	32.75	45.05	44.04	44.15	38.40	43.00
18	34.16	32.75	-7.57	14.35	21.66	33.45	34.08	45.97	45.37	37.14	43.87	44.00
19	35.66	31.73	15.52	11.76	28.89	30.07	28.27	47.11	48.20	45.72	53.82	38.00
20	36.52	18.67	9.71	19.38	16.63	1.73 -	46.96	48.35	53.94	49.08	61.55	40.00
21	35.73	11.68	15.14	24.26	17.02	20.25	35.38	52.92	52.72	48.24	51.18	27.00
22	34.95	25.04	23.23	11.91	11.52	24.18	40.62	43.25	47.19	43.56	42.94	31.00
23	30.62	14.04	12.70	-5.53	12.15	29.60	35.55	38.51	37.31	48.24	46.93	36.00
24	34.87	-0.03	6.25	3.50	11.13	35.26	37.81	45.65	34.99	45.16	44.01	33.00
25	40.45	-0.11	-5.69	7.59	-4.43	35.89	34.36	49.97	37.61	42.52	37.07	41.00
26	32.75	-1.91	-2.31	-0.58	-7.34	37.31	37.14	44.29	49.08	41.53	31.88	33.00
27	36.91	0.20	22.92	-1.05	12.29	35.18	29.12	46.15	49.38	42.87	39.17	39.00
28	33.69	21.50	22.05	1.53	17.25	33.45	28.89	47.69	51.68	46.01	39.48	38.00
29	39.59	14.27	24.18	0.43	---	32.04	38.47	49.23	41.50	51.75	38.97	43.00
30	34.24	17.65	3.66	-7.50	---	28.66	35.98	45.69	37.27	47.73	37.47	37.00
31	31.41	---	-0.50	-6.16	---	28.34	---	50.09	---	44.74	40.75	---
TOTAL	11.00	39.05	2.00	53.97	2.00	62.56	8.00	54.22	12.00	44.98	14.00	3.00
MEAN	35.75	21.30	7.45	4.97	8.55	24.60	28.74	43.68	42.76	43.39	45.51	40.00
MAX	50.20	39.35	28.03	29.05	28.89	37.31	40.62	52.92	53.94	51.75	61.55	52.00
MIN	24.96	1.91 -	5.52 -	7.25 -	17.25	7.50 -	46.96	27.59	31.18	33.17	31.88	26.00
	WTR YR 1993 TOTAL			10593.06 MEAN		29.02 MAX		61.55 MIN		-46.96		

PICABO

MX MX WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

MAX VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86.13	47.61	33.93	35.97	21.66	21.98	49.89	60.02	67.77	75.83	87.91	79.00
2	80.08	48.86	35.11	28.27	21.35	25.99	48.71	64.16	52.45	70.17	87.48	78.00
3	55.39	43.83	30.15	7.75	26.30	33.93	50.67	60.29	56.09	67.21	87.06	88.00
4	63.17	35.58	21.50	21.58	28.97	33.38	49.65	50.27	57.47	68.90	83.29	87.00
5	63.80	35.26	22.92	25.51	30.15	35.18	44.23	52.84	56.71	71.13	88.05	85.00
6	63.33	39.27	25.83	19.77	30.78	34.79	49.10	57.51	54.14	73.92	87.91	86.00
7	58.46	51.69	33.30	31.65	35.18	41.87	51.85	51.37	57.89	72.51	73.75	82.00
8	65.14	36.91	33.77	26.61	31.80	41.63	56.80	56.34	61.37	74.60	81.97	84.00
9	64.75	38.96	36.13	27.56	31.65	35.50	48.00	60.42	67.71	82.36	86.64	85.00
10	66.40	34.71	40.29	28.42	34.40	38.01	42.18	75.71	67.56	77.87	90.09	89.00
11	75.83	34.16	37.39	24.26	33.93	36.44	43.36	83.55	62.28	81.71	80.36	82.00
12	78.50	41.16	25.99	18.44	30.00	29.21	41.87	84.43	58.80	72.45	81.84	63.00
13	67.97	37.39	17.49	29.60	26.85	33.77	50.67	82.29	72.07	75.53	79.04	61.00
14	57.91	52.64	18.91	38.09	30.07	38.88	49.34	79.98	82.29	72.40	84.22	71.00
15	52.17	54.21	19.30	33.61	22.92	41.87	49.96	82.36	74.26	72.73	80.10	69.00
16	61.76	55.23	17.10	35.50	16.55	43.68	55.94	78.48	63.07	71.35	66.30	74.00
17	64.43	45.09	24.57	26.38	25.51	41.79	54.60	76.48	71.57	71.19	76.66	66.00
18	66.24	37.07	16.32	36.52	35.81	42.02	45.96	81.32	75.07	75.95	85.04	66.00
19	71.35	39.74	15.53	34.48	40.84	44.62	51.54	83.02	84.09	87.62	90.53	70.00
20	74.89	40.14	24.41	37.86	30.47	.48 1	17.42	81.00	89.87	74.95	86.29	65.00
21	72.21	32.20	33.53	37.86	25.75	43.83	63.73	71.03	80.48	72.62	75.30	64.00
22	63.96	36.60	33.45	36.91	26.30	52.09	57.01	67.01	60.51	64.40	76.84	68.00
23	65.92	32.51	28.19	18.36	28.19	56.65	53.19	70.70	59.10	59.27	85.11	69.00
24	74.81	26.22	28.50	21.19	32.12	51.54	55.15	77.14	70.06	68.90	73.75	70.00
25	70.09	27.40	15.61	25.51	26.69	51.30	56.30	82.36	79.72	75.18	67.97	75.00
26	68.83	28.03	26.22	23.94	21.58	55.86	53.98	77.44	88.13	74.32	72.23	75.00
27	67.97	29.76	37.07	23.00	21.98	47.61	54.62	78.85	85.38	78.17	79.54	81.00
28	63.72	27.01	38.57	26.46	21.74	51.30	61.32	78.54	75.77	90.83	81.00	79.00
29	48.71	23.71	35.97	17.42	---	50.04	55.07	71.57	67.16	92.04	69.90	82.00
30	48.24	28.27	30.31	18.67	---	50.20	57.09	80.61	72.01	83.35	74.60	80.00
31	48.55	---	27.48	27.40	---	54.76	---	81.90	---	86.71	82.43	---
TOTAL	20.00	41.22	8.00	44.55	7.00	5.20	16.00	38.99	20.00	36.17	25.00	86.00
MEAN	65.51	38.04	27.90	27.24	28.20	42.10	53.97	72.23	69.03	75.36	80.75	76.00
MAX	86.13	55.23	40.29	38.09	40.84	.65 1	17.42	84.43	89.87	92.04	90.53	89.00
MIN	48.24	23.71	15.53	7.75	16.55	21.98	41.87	50.27	52.45	59.27	66.30	61.00

WTR YR 1993 TOTAL 20031.04 MEAN 54.88 MAX 117.42 MIN 7.75

		PICABO										
PC	PC	WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993										
		LAST VALUES										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.24	6.50	6.95	4.77	6.84	8.87	3.42	4.57	5.25	8.41	9.08	9.00
2	5.24	6.56	6.94	4.80	6.84	8.87	3.44	4.59	5.49	8.44	9.10	9.00
3	5.41	6.56	6.96	4.79	6.84	8.87	3.44	5.01	5.77	8.43	9.11	9.00
4	5.45	6.56	6.97	4.80	6.84	8.88	3.71	5.09	5.77	8.55	9.10	9.00
5	5.48	6.58	6.95	4.80	6.85	8.87	3.72	5.20	6.02	8.60	9.06	9.00
6	5.48	6.58	6.95	4.82	6.85	8.87	3.72	5.21	7.49	8.58	9.07	9.00
7	5.46	6.62	6.97	4.82	6.85	8.85	3.72	5.22	8.00	8.58	9.16	9.00
8	5.46	6.66	6.97	4.92	6.85	8.87	3.72	5.21	7.98	8.59	9.14	9.00
9	5.47	6.69	6.98	5.06	6.95	8.87	3.76	5.21	7.98	8.63	9.12	9.00
10	5.48	6.67	3.58	5.06	7.01	8.87	3.78	5.20	8.26	8.63	9.19	9.00
11	5.49	6.67	3.58	5.08	7.07	8.87	3.79	5.19	8.35	8.63	9.20	9.00
12	5.50	6.68	3.58	5.09	7.08	8.87	3.82	5.18	8.36	8.63	9.20	9.00
13	5.53	6.69	3.58	5.09	7.08	8.88	3.81	5.18	8.35	8.63	9.19	9.00
14	5.54	6.69	3.59	5.16	7.09	9.03	3.85	5.17	8.35	8.62	9.21	9.00
15	5.54	6.68	3.58	5.20	7.09	9.13	3.87	5.24	8.40	8.63	9.22	9.00
16	5.53	6.69	3.58	5.24	7.17	9.23	3.87	5.24	8.39	8.63	9.21	9.00
17	5.54	6.68	3.60	5.26	7.19	9.69	3.87	5.27	8.39	8.63	9.22	9.00
18	5.54	6.68	3.61	5.34	7.52	9.97	3.99	5.26	8.39	8.64	9.22	9.00
19	5.53	6.68	3.61	5.34	8.02	9.97	3.99	5.25	8.40	8.64	9.23	9.00
20	5.54	6.85	3.63	6.29	8.32	9.99	3.87	5.24	8.39	8.63	9.22	9.00
21	5.54	6.84	3.67	6.44	8.48	10.02	4.22	5.27	8.42	8.63	9.53	9.00
22	5.55	6.88	3.69	6.85	8.56	10.01	4.29	5.27	8.44	8.63	9.52	9.00
23	5.54	6.92	3.69	6.85	8.59	10.02	4.31	5.25	8.45	8.94	9.51	9.00
24	5.54	6.92	3.69	6.84	8.75	10.07	4.28	5.27	8.42	9.02	9.53	9.00
25	5.54	6.94	3.69	6.84	8.86	10.59	4.27	5.25	8.42	9.04	9.55	9.00
26	5.54	6.94	3.69	6.85	8.86	10.80	4.28	5.25	8.42	9.04	9.54	9.00
27	5.53	6.95	3.69	6.85	8.85	10.89	4.28	5.24	8.41	9.05	9.52	9.00
28	5.55	6.95	3.69	6.85	8.87	10.90	4.26	5.24	8.42	9.09	9.52	9.00
29	6.09	6.94	3.90	6.85	---	10.94	4.58	5.24	8.44	9.07	9.55	9.00
30	6.32	6.94	4.05	6.84	---	10.94	4.59	5.25	8.41	9.08	9.52	9.00
31	6.33	---	4.30	6.84	---	3.30	---	5.27	---	9.08	9.52	---
TOTAL	172.52	202.19	143.91	176.63	212.17	290.80	118.52	160.53	236.03	270.42	288.06	270.00
MEAN	5.57	6.74	4.64	5.70	7.58	9.38	3.95	5.18	7.87	8.72	9.29	9.00
MAX	6.33	6.95	6.98	6.85	8.87	10.94	4.59	5.27	8.45	9.09	9.55	9.00
MIN	5.24	6.50	3.58	4.77	6.84	3.30	3.42	4.57	5.25	8.41	9.06	9.00
	WTR YR 1993 TOTAL			2561.43 MEAN		7.02 MAX		10.94 MIN		3.30		

PICABO

PP PP WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DELTA VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.01	0.17	0.01	0.47	0.01	0.00	0.12	0.00	0.00	0.01	0.00	0.00
2	0.00	0.06	0.00	0.02	0.00	0.00	0.01	0.02	0.24	0.01	0.00	0.00
3	0.16	0.01	0.02	0.00	0.00	0.00	0.01	0.41	0.28	0.00	0.00	0.00
4	0.05	0.00	0.01	0.01	0.00	0.02	0.27	0.09	0.00	0.12	0.00	0.00
5	0.03	0.01	0.00	0.00	0.01	0.00	0.01	0.10	0.26	0.05	0.00	0.00
6	0.00	0.00	0.01	0.02	0.00	0.00	0.01	0.01	1.47	0.00	0.01	0.00
7	0.00	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.09	0.00
8	0.00	0.04	0.00	0.10	0.01	0.02	0.00	0.00	0.00	0.01	0.00	0.00
9	0.01	0.02	0.01	0.14	0.09	0.00	0.04	0.00	0.00	0.04	0.00	0.00
10	0.01	0.00	0.00	0.01	0.06	0.01	0.02	0.00	0.28	0.00	0.06	0.00
11	0.01	0.00	0.00	0.01	0.06	0.00	0.01	0.00	0.09	0.01	0.02	0.00
12	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.00	0.01	0.00	0.00	0.00
13	0.03	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
14	0.01	0.00	0.01	0.07	0.01	0.15	0.03	0.00	0.00	0.00	0.02	0.00
15	0.00	0.00	0.00	0.04	0.01	0.10	0.02	0.08	0.04	0.00	0.01	0.00
16	0.00	0.01	0.00	0.05	0.08	0.10	0.00	0.00	0.00	0.00	0.00	0.00
17	0.01	0.00	0.02	0.02	0.02	0.46	0.01	0.03	0.00	0.00	0.01	0.00
18	0.00	0.00	0.01	0.08	0.33	0.28	0.12	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.01	0.49	0.00	0.01	0.00	0.00	0.00	0.01	0.00
20	0.01	0.17	0.02	0.95	0.30	0.02	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.04	0.15	0.16	0.03	0.35	0.02	0.03	0.00	0.31	0.00
22	0.01	0.05	0.02	0.41	0.09	0.00	0.07	0.01	0.02	0.00	0.00	0.00
23	0.00	0.04	0.00	0.00	0.03	0.01	0.02	0.00	0.00	0.31	0.00	0.00
24	0.00	0.00	0.00	0.00	0.16	0.05	0.00	0.00	0.00	0.08	0.03	0.00
25	0.00	0.01	0.00	0.00	0.11	0.52	0.00	0.00	0.00	0.02	0.00	0.00
26	0.00	0.00	0.00	0.01	0.00	0.21	0.01	0.00	0.00	0.00	0.00	0.00
27	0.00	0.01	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.01	0.00	0.00
28	0.01	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.04	0.00	0.00
29	0.54	0.00	0.22	0.00	---	0.05	0.33	0.00	0.00	0.00	0.00	0.00
30	0.23	0.00	0.15	0.00	---	0.00	0.01	0.01	0.00	0.00	0.00	0.00
31	0.01	---	0.26	0.00	---	0.00	---	0.02	---	0.00	0.00	---
TOTAL	1.15	0.67	0.83	2.58	2.07	2.15	1.51	0.80	3.23	0.71	0.57	0.00
MEAN	0.04	0.02	0.03	0.08	0.07	0.07	0.05	0.03	0.11	0.02	0.02	0.00
MAX	0.54	0.17	0.26	0.95	0.49	0.52	0.35	0.41	1.47	0.31	0.31	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

WTR YR 1993 TOTAL 5.41 MEAN 0.01 MAX 1.47 MIN -7.63

Note: Values in the shaded cells are corrected values

PICABO

SP SP WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

LAST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	1.78	1.49	0.02	-1.74	0.00
2	---	---	---	---	---	---	---	1.81	1.48	-0.06	0.45	0.00
3	---	---	---	---	---	---	---	1.81	1.44	-0.05	0.26	0.00
4	---	---	---	---	---	---	---	1.73	1.47	-0.09	0.33	0.00
5	---	---	---	---	---	---	---	1.73	1.45	-0.06	0.27	0.00
6	---	---	---	---	---	---	---	1.71	1.43	-0.05	0.24	0.00
7	---	---	---	---	---	---	---	1.66	1.40	-0.04	0.15	0.00
8	---	---	---	---	---	---	---	1.70	1.44	-0.05	0.11	0.00
9	---	---	---	---	---	---	---	1.73	1.50	-0.03	0.24	0.00
10	---	---	---	---	---	---	---	1.88	1.48	-0.06	0.33	0.00
11	---	---	---	---	---	---	---	1.93	1.38	-0.05	0.11	0.00
12	---	---	---	---	---	---	---	1.94	1.50	-0.14	0.22	0.00
13	---	---	---	---	---	---	---	1.88	1.62	-0.14	0.13	0.00
14	---	---	---	---	---	---	---	1.88	1.76	-0.17	0.26	0.00
15	---	---	---	---	---	---	---	1.84	1.62	-0.13	0.16	0.00
16	---	---	---	---	---	---	---	1.81	1.56	-0.19	-0.11	0.00
17	---	---	---	---	---	---	---	1.83	1.71	-0.19	0.04	0.00
18	---	---	---	---	---	---	---	1.83	1.70	-0.14	0.39	0.00
19	---	---	---	---	---	---	---	1.82	1.75	-0.04	0.63	0.00
20	---	---	---	---	---	---	---	1.82	1.92	-0.09	0.48	0.00
21	---	---	---	---	---	---	1.76	1.78	1.66	-0.16	0.10	0.00
22	---	---	---	---	---	---	1.78	1.76	-0.20	-0.09	0.10	0.00
23	---	---	---	---	---	---	1.83	1.76	-0.27	-0.16	0.24	0.00
24	---	---	---	---	---	---	1.83	1.80	-0.19	-0.22	0.02	0.00
25	---	---	---	---	---	---	1.82	1.82	0.07	-0.14	-0.09	0.00
26	---	---	---	---	---	---	1.80	1.77	0.23	0.10	-0.08	0.00
27	---	---	---	---	---	---	1.78	1.77	0.17	0.08	0.08	0.00
28	---	---	---	---	---	---	1.80	1.64	0.01	0.77	0.32	0.00
29	---	---	---	---	---	---	1.82	1.55	-0.06	0.37	0.22	0.00
30	---	---	---	---	---	---	1.77	0.85	-0.03	0.22	-0.04	0.00
31	---	---	---	---	---	---	---	1.54	---	0.26	0.22	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	17.99	54.16	32.49	-0.72	4.04	3.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	1.80	1.75	1.08	-0.02	0.13	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	1.83	1.94	1.92	0.77	0.63	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	1.76	0.85	-0.27	-0.22	-1.74	0.00

WTR YR 1993 TOTAL 111.88 MEAN 0.69 MAX 1.94 MIN -1.74

PICABO

SR SR WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

SRAD VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	-5.00	.89 6	.08 6	.02 6	.11 5	17.00
2	---	---	---	---	---	---	-5.00	.48 1	.94 2	.54 6	.81 5	12.00
3	---	---	---	---	---	---	-2.00	.53 2	.62 5	.36 6	.98 5	18.00
4	---	---	---	---	---	---	---	-2.00	.92 5	.45 3	.37 3	63.00
5	---	---	---	---	---	---	-2.00	.95 2	.83 6	.16 5	.27 4	92.00
6	---	---	---	---	---	---	-3.00	.00 1	.00 7	.49 6	.84 5	2.00
7	---	---	---	---	---	---	-6.00	.63 3	.32 6	.87 2	.91 5	0.00
8	---	---	---	---	---	---	-4.00	.47 5	.06 6	.28 6	.56 4	60.00
9	---	---	---	---	---	---	-6.00	.67 6	.43 6	.07 4	.34 4	78.00
10	---	---	---	---	---	---	-6.00	.83 3	.84 7	.61 5	.12 4	85.00
11	---	---	---	---	---	---	-6.00	.44 4	.13 6	.97 4	.01 4	53.00
12	---	---	---	---	---	---	-6.00	.77 7	.04 7	.92 3	.37 3	97.00
13	---	---	---	---	---	---	-6.00	.61 7	.26 6	.80 5	.70 4	63.00
14	---	---	---	---	---	---	-3.00	.89 6	.96 6	.25 4	.13 4	15.00
15	---	---	---	---	---	---	-5.00	.23 5	.20 6	.50 4	.43 4	10.00
16	---	---	---	---	---	---	-5.00	.19 4	.05 6	.17 4	.47 3	87.00
17	---	---	---	---	---	---	-5.00	.58 6	.32 5	.72 5	.47 2	11.00
18	---	---	---	---	---	---	-6.00	.00 7	.44 6	.16 5	.00 2	58.00
19	---	---	---	---	---	---	-6.00	.86 7	.84 5	.90 5	.14 3	52.00
20	---	---	---	---	---	---	-6.00	.31 6	.30 5	.13 3	.41 2	36.00
21	---	---	---	---	---	-5.00	.63 5	.79 4	.80 4	.84 4	.39 4	33.00
22	---	---	---	---	---	-2.00	.39 6	.45 6	.18 2	.76 5	.97 4	56.00
23	---	---	---	---	---	-5.00	.26 6	.95 6	.36 1	.78 5	.58 3	92.00
24	---	---	---	---	---	-5.00	.44 6	.06 7	.14 6	.66 5	.28 4	38.00
25	---	---	---	---	---	-2.00	.60 5	.78 6	.18 6	.64 5	.47 4	1.00
26	---	---	---	---	---	-6.00	.78 6	.71 7	.36 5	.14 5	.32 4	28.00
27	---	---	---	---	---	-5.00	.99 6	.47 6	.82 6	.27 5	.67 4	11.00
28	---	---	---	---	---	-5.00	.23 4	.51 6	.66 6	.98 5	.16 3	80.00
29	---	---	---	---	---	-2.00	.09 6	.03 5	.86 6	.96 5	.21 4	8.00
30	---	---	---	---	---	-4.00	.40 5	.05 6	.66 6	.63 5	.42 3	36.00
31	---	---	---	---	---	---	-4.00	88.66	-6.00	.01 5	39.04	---
TOTAL	0.00	0.00	0.00	0.00	0.00	.00 45	81 166	79 163	60 186	04 160	95 125	6.00
MEAN	0.00	0.00	0.00	0.00	0.00	.00 4	.68 5	.69 5	.65 6	.49 5	.84 4	16.00
MAX	0.00	0.00	0.00	0.00	0.00	.00 6	.78 6	.77 7	.26 7	.92 6	.98 5	18.00
MIN	0.00	0.00	0.00	0.00	0.00	.00 2	.39 2	.53 1	.00 1	.78 2	.91 2	11.00

WTR YR 1993 TOTAL 84824.05 MEAN 523.61 MAX 716.26 MIN 139.00

PICABO

SR2 SR2 WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

SRAD VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	-2.00	26.00
2	---	---	---	---	---	---	---	---	---	---	---	48.00
3	---	---	---	---	---	---	---	---	---	---	---	35.00
4	---	---	---	---	---	---	---	---	---	---	---	88.00
5	---	---	---	---	---	---	---	---	---	---	---	46.00
6	---	---	---	---	---	---	---	---	---	---	48.16	53.00
7	---	---	---	---	---	---	---	---	---	-1.00	31.01	51.00
8	---	---	---	---	---	---	---	---	---	---	71.42	52.00
9	---	---	---	---	---	---	---	---	---	-1.00	89.37	56.00
10	---	---	---	---	---	---	---	---	---	---	71.01	50.00
11	---	---	---	---	---	---	---	---	---	-1.00	37.13	91.00
12	---	---	---	---	---	---	---	---	---	-1.00	.58 1	2.00
13	---	---	---	---	---	---	---	---	---	---	98.77	76.00
14	---	---	---	---	---	---	---	---	---	-1.00	.89 1	39.00
15	---	---	---	---	---	---	---	---	---	-2.00	.76 1	26.00
16	---	---	---	---	---	---	---	---	---	-1.00	.64 1	73.00
17	---	---	---	---	---	---	---	---	---	---	.14 1	36.00
18	---	---	---	---	---	---	---	---	---	-1.00	.74 1	71.00
19	---	---	---	---	---	---	---	---	---	---	.53 1	57.00
20	---	---	---	---	---	---	---	---	---	---	.82 1	98.00
21	---	---	---	---	---	---	---	---	---	-1.00	.52 1	44.00
22	---	---	---	---	---	---	---	---	---	---	76.73	73.00
23	---	---	---	---	---	---	---	---	---	---	.40 1	15.00
24	---	---	---	---	---	---	---	---	---	---	77.54	60.00
25	---	---	---	---	---	---	---	---	---	---	97.95	72.00
26	---	---	---	---	---	---	---	---	---	-1.00	3.67	53.00
27	---	---	---	---	---	---	---	---	---	-1.00	6.52	56.00
28	---	---	---	---	---	---	---	---	---	---	72.24	88.00
29	---	---	---	---	---	---	---	---	---	-1.00	24.07	40.00
30	---	---	---	---	---	---	---	---	---	-1.00	.54 1	24.00
31	---	---	---	---	---	---	---	---	---	-1.00	42.03	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.00 27	.18 29	12.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.00 1	6.93	97.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.00 2	.76 2	26.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	35.00

WTR YR 1993 TOTAL 5693.00 MEAN 101.66 MAX 226.10 MIN 0.82

PICABO

TA TA WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	50.37	53.66	42.47	46.01	31.00
2	---	---	---	---	---	---	---	48.99	70.67	52.43	43.95	45.00
3	---	---	---	---	---	---	---	67.12	81.91	57.48	43.08	38.00
4	---	---	---	---	---	---	---	49.51	77.83	62.98	51.35	42.00
5	---	---	---	---	---	---	---	62.91	75.43	52.63	49.56	39.00
6	---	---	---	---	---	---	---	69.32	86.22	42.86	46.18	36.00
7	---	---	---	---	---	---	---	53.61	78.88	37.51	68.75	39.00
8	---	---	---	---	---	---	---	50.66	65.74	47.77	55.60	31.00
9	---	---	---	---	---	---	---	46.80	62.47	40.38	40.61	35.00
10	---	---	---	---	---	---	---	36.09	74.90	32.49	42.80	31.00
11	---	---	---	---	---	---	---	25.89	67.55	37.02	63.59	27.00
12	---	---	---	---	---	---	---	15.45	52.47	35.82	56.00	42.00
13	---	---	---	---	---	---	---	30.72	45.15	46.14	55.91	56.00
14	---	---	---	---	---	---	---	39.66	45.32	41.00	54.66	40.00
15	---	---	---	---	---	---	---	49.73	56.70	40.91	55.59	36.00
16	---	---	---	---	---	---	---	45.48	68.69	43.53	62.31	38.00
17	---	---	---	---	---	---	---	44.86	54.26	42.61	54.72	61.00
18	---	---	---	---	---	---	---	45.66	50.19	40.22	47.11	74.00
19	---	---	---	---	---	---	---	46.82	50.73	39.89	34.05	62.00
20	---	---	---	---	---	---	---	45.99	41.09	45.59	31.86	56.00
21	---	---	---	---	---	---	33.41	42.70	60.03	48.10	63.75	36.00
22	---	---	---	---	---	---	57.77	44.92	53.76	58.82	58.76	31.00
23	---	---	---	---	---	---	49.36	43.54	38.32	86.08	51.27	29.00
24	---	---	---	---	---	---	54.03	39.33	46.45	68.60	45.96	29.00
25	---	---	---	---	---	---	52.84	29.19	52.93	56.31	42.89	31.00
26	---	---	---	---	---	---	52.03	44.27	46.44	62.12	40.10	33.00
27	---	---	---	---	---	---	44.03	32.82	43.74	58.32	36.08	29.00
28	---	---	---	---	---	---	40.24	32.86	48.58	43.63	33.35	30.00
29	---	---	---	---	---	---	57.83	38.06	39.30	36.59	43.06	28.00
30	---	---	---	---	---	---	57.81	34.16	39.12	42.02	39.89	27.00
31	---	---	---	---	---	---	---	38.33	---	39.09	30.40	---
TOTAL	0.00	0.00	0.00	0.00	0.00	.00 4	.35 13	.82 17	.53 14	.41 14	.20 11	74.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	49.94	43.41	57.62	47.79	48.04	39.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	57.83	69.32	86.22	86.08	68.75	74.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	33.41	15.45	38.32	32.49	30.40	27.00

WTR YR 1993 TOTAL 7718.40 MEAN 47.35 MAX 86.22 MIN 15.45

PICABO

TG TG WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.01	8.88	12.91	18.00	14.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.08	1.22	10.08	18.00	14.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	3.04	8.60	18.00	18.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.73	9.45	19.05	19.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.42	3.36	10.57	18.78	18.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.76	2.07	11.96	18.00	18.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	3.95	11.25	11.87	16.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.17	5.68	12.30	15.98	17.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.21	8.86	16.18	18.00	17.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.86	8.78	13.93	18.78	18.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.78	6.14	15.85	15.18	16.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.21	4.40	11.23	15.92	6.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.38	11.03	12.77	14.52	5.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.99	16.15	11.20	17.11	10.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.18	12.13	11.37	15.66	9.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.24	6.54	10.68	8.15	12.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.24	10.79	10.59	13.33	8.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.66	12.53	12.97	17.52	8.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.51	17.04	18.00	19.91	10.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.50	19.97	12.48	23.77	7.00
21	0.00	0.00	0.00	0.00	0.00	0.00	6.87	11.97	16.60	11.31	13.24	7.00
22	0.00	0.00	0.00	0.00	0.00	0.00	3.50	8.50	5.26	7.20	13.42	9.00
23	0.00	0.00	0.00	0.00	0.00	0.00	1.60	10.35	4.55	4.64	17.55	9.00
24	0.00	0.00	0.00	0.00	0.00	0.00	2.57	13.57	10.03	9.45	11.87	10.00
25	0.00	0.00	0.00	0.00	0.00	0.00	3.15	16.18	14.86	12.59	8.99	12.00
26	0.00	0.00	0.00	0.00	0.00	0.00	1.99	13.72	18.00	12.16	11.12	12.00
27	0.00	0.00	0.00	0.00	0.00	0.00	2.31	14.43	17.69	14.09	14.77	15.00
28	0.00	0.00	0.00	0.00	0.00	0.00	5.66	14.27	13.72	18.00	15.50	14.00
29	0.00	0.00	0.00	0.00	---	0.00	2.53	10.79	8.58	18.88	9.95	16.00
30	0.00	0.00	0.00	0.00	---	0.00	3.54	15.31	11.01	16.68	12.30	15.00
31	0.00	---	0.00	0.00	---	0.00	---	15.99	---	18.00	16.21	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	.72 3	.11 2	.59 3	.37 4	.45 3	91.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	1.12	11.00	9.55	12.50	15.50	13.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	6.87	17.21	19.97	18.88	23.77	19.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	4.64	8.15	5.00

WTR YR 1993 TOTAL 1920.41 MEAN 5.26 MAX 23.77 MIN 0.00

PICABO

UA UA WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	3.86	5.74	3.31	2.55	4.00
2	---	---	---	---	---	---	---	6.05	3.09	3.86	2.44	2.00
3	---	---	---	---	---	---	---	3.87	4.53	6.06	3.70	3.00
4	---	---	---	---	---	---	---	5.65	2.62	3.23	2.47	3.00
5	---	---	---	---	---	---	---	4.41	6.60	4.41	3.32	3.00
6	---	---	---	---	---	---	---	6.83	4.50	3.36	3.40	3.00
7	---	---	---	---	---	---	---	9.67	5.23	4.82	2.03	3.00
8	---	---	---	---	---	---	---	4.24	5.48	2.38	3.17	3.00
9	---	---	---	---	---	---	---	3.01	3.29	3.43	3.67	2.00
10	---	---	---	---	---	---	---	6.03	3.01	4.74	3.21	3.00
11	---	---	---	---	---	---	---	6.44	5.47	2.81	2.93	5.00
12	---	---	---	---	---	---	---	6.60	6.03	5.49	2.72	5.00
13	---	---	---	---	---	---	---	4.10	2.67	2.46	3.30	2.00
14	---	---	---	---	---	---	---	4.73	3.03	3.81	3.67	2.00
15	---	---	---	---	---	---	---	3.62	4.69	4.23	3.66	4.00
16	---	---	---	---	---	---	---	3.71	2.33	3.06	3.89	2.00
17	---	---	---	---	---	---	---	3.61	2.98	3.87	2.12	2.00
18	---	---	---	---	---	---	---	4.20	3.83	2.36	2.74	2.00
19	---	---	---	---	---	---	---	3.50	2.41	2.80	4.65	2.00
20	---	---	---	---	---	---	---	4.34	3.42	3.80	7.93	2.00
21	---	---	---	---	---	---	4.88	5.72	4.15	2.99	3.87	2.00
22	---	---	---	---	---	---	5.24	6.53	5.90	2.12	3.02	2.00
23	---	---	---	---	---	---	8.35	3.48	7.56	1.96	3.55	3.00
24	---	---	---	---	---	---	8.35	3.78	4.69	3.64	4.41	3.00
25	---	---	---	---	---	---	2.10	6.54	2.36	3.29	2.68	3.00
26	---	---	---	---	---	---	7.40	3.06	2.81	3.38	2.95	2.00
27	---	---	---	---	---	---	3.85	4.02	4.00	2.52	3.79	3.00
28	---	---	---	---	---	---	4.00	4.28	5.02	4.33	4.31	2.00
29	---	---	---	---	---	---	5.54	5.05	4.77	3.80	3.40	2.00
30	---	---	---	---	---	---	3.63	3.79	3.63	3.20	3.49	4.00
31	---	---	---	---	---	---	---	5.13	---	2.96	3.43	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	.34 1	.85 1	.84 1	.48 1	6.47	99.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	5.33	4.83	4.19	3.50	3.43	3.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	8.35	9.67	7.56	6.06	7.93	5.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	2.10	3.01	2.33	1.96	2.03	2.00

WTR YR 1993 TOTAL 643.30 MEAN 3.95 MAX 9.67 MIN 1.96

PICABO

UD UD WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

WDIR VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	-2.00	.89 2	.86 2	.22 1	.56 2	38.00
2	---	---	---	---	---	---	-2.00	.00 2	.79 2	.64 1	.05 2	1.00
3	---	---	---	---	---	---	-2.00	.21 2	.08 2	59.00	.64 2	19.00
4	---	---	---	---	---	---	-2.00	21.99	.54 2	.38 1	.60 2	22.00
5	---	---	---	---	---	---	-2.00	5.18	.82 2	.08 2	.95 2	6.00
6	---	---	---	---	---	---	-2.00	45.83	.10 2	.28 2	.58 2	2.00
7	---	---	---	---	---	---	-2.00	.99 2	.02 2	.10 2	.09 1	92.00
8	---	---	---	---	---	---	-2.00	.59 1	.66 1	.67 2	.09 2	10.00
9	---	---	---	---	---	---	-1.00	.80 1	.33 2	.84 1	.01 1	11.00
10	---	---	---	---	---	---	---	68.26	.51 2	.68 2	.14 2	21.00
11	---	---	---	---	---	---	---	.84 2	.53 2	.55 1	.68 2	51.00
12	---	---	---	---	---	---	---	.91 2	.46 2	.22 2	.18 2	55.00
13	---	---	---	---	---	---	-1.00	.16 1	2.25	.67 2	.98 2	19.00
14	---	---	---	---	---	---	-1.00	.24 1	.07 2	.25 1	.86 1	82.00
15	---	---	---	---	---	---	-2.00	.11 2	.97 2	.24 2	.51 2	17.00
16	---	---	---	---	---	---	-2.00	.74 2	.57 2	.16 2	.67 1	85.00
17	---	---	---	---	---	---	-1.00	.94 2	.08 2	43.72	.82 1	45.00
18	---	---	---	---	---	---	-2.00	.66 2	.56 1	.95 1	.69 1	84.00
19	---	---	---	---	---	---	-2.00	.59 2	.94 1	.80 1	.99 2	9.00
20	---	---	---	---	---	---	-2.00	20.38	.30 2	35.11	.79 2	47.00
21	---	---	---	---	---	-2.00	.22 2	.03 2	.72 2	.92 2	.08 1	63.00
22	---	---	---	---	---	-2.00	.39 2	.57 2	.25 2	.76 1	.70 1	70.00
23	---	---	---	---	---	-2.00	.18 1	.02 2	.38 1	.75 2	.19 1	98.00
24	---	---	---	---	---	-2.00	43.47	.90 2	.46 2	.88 2	.23 2	0.00
25	---	---	---	---	---	-2.00	.27 1	8.81	.49 2	.49 1	.95 2	38.00
26	---	---	---	---	---	-2.00	.33 1	.18 1	.71 2	.03 2	.98 1	70.00
27	---	---	---	---	---	-2.00	.75 1	.52 2	.57 1	.31 2	.53 2	14.00
28	---	---	---	---	---	-2.00	.20 1	.63 2	38.55	.13 2	.71 1	42.00
29	---	---	---	---	---	-2.00	.55 2	.58 2	.03 1	.69 1	.49 2	6.00
30	---	---	---	---	---	-2.00	.78 1	.20 2	.31 2	.85 1	.80 2	45.00
31	---	---	---	---	---	---	-1.00	89.85	-2.00	.52 2	40.70	---
TOTAL	0.00	0.00	0.00	0.00	0.00	.00 24	.14 57	.60 56	.91 64	.89 56	.24 60	73.00
MEAN	0.00	0.00	0.00	0.00	0.00	.00 2	.11 1	.83 1	.06 2	.96 1	.94 2	2.00
MAX	0.00	0.00	0.00	0.00	0.00	.00 2	.55 2	.03 2	.38 2	.00 2	.95 2	55.00
MIN	0.00	0.00	0.00	0.00	0.00	.00 2	15.20	66.90	65.49	36.67	.82 1	11.00

WTR YR 1993 TOTAL 32056.10 MEAN 196.66 MAX 276.95 MIN 16.82

PICABO

WR WR WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

WRUN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	92.63	1.00	79.43	61.25	1.00
2	---	---	---	---	---	---	-1.00	45.17	74.20	92.63	58.52	52.00
3	---	---	---	---	---	---	---	92.88	1.00	45.42	88.89	82.00
4	---	---	---	---	---	---	-1.00	35.51	63.00	77.44	59.26	73.00
5	---	---	---	---	---	---	-1.00	5.83	1.00	5.82	79.68	92.00
6	---	---	---	---	---	---	-1.00	63.84	1.00	80.68	81.67	92.00
7	---	---	---	---	---	---	-2.00	32.07	1.00	15.79	48.80	83.00
8	---	---	---	---	---	---	-1.00	1.84	1.00	57.02	76.19	79.00
9	---	---	---	---	---	---	---	72.21	78.93	82.42	88.15	59.00
10	---	---	---	---	---	---	-1.00	44.67	72.21	1.00	76.94	86.00
11	---	---	---	---	---	---	-1.00	54.63	1.00	67.48	70.22	1.00
12	---	---	---	---	---	---	-1.00	58.36	1.00	31.72	65.24	1.00
13	---	---	---	---	---	---	---	98.36	63.99	59.01	79.18	69.00
14	---	---	---	---	---	---	-1.00	13.54	72.71	91.38	88.15	68.00
15	---	---	---	---	---	---	---	86.90	1.00	1.59	87.90	97.00
16	---	---	---	---	---	---	---	89.14	56.02	73.46	93.38	58.00
17	---	---	---	---	---	---	---	86.65	71.46	92.88	50.80	53.00
18	---	---	---	---	---	---	-1.00	0.85	91.88	56.52	65.74	67.00
19	---	---	---	---	---	---	---	83.91	57.77	.23 1	11.55	66.00
20	---	---	---	---	---	---	-1.00	4.08	82.17	.13 1	90.24	67.00
21	---	---	---	---	---	-1.00	18.28	1.00	99.60	71.71	92.88	59.00
22	---	---	---	---	---	-1.00	25.75	1.00	41.68	50.80	72.46	61.00
23	---	---	---	---	---	-2.00	0.45	83.41	1.00	47.06	85.16	88.00
24	---	---	---	---	---	-2.00	0.44	90.64	1.00	.40 1	5.82	85.00
25	---	---	---	---	---	---	50.30	1.00	56.52	78.93	64.24	89.00
26	---	---	---	---	---	-1.00	77.54	73.46	67.48	81.17	70.72	50.00
27	---	---	---	---	---	---	92.38	96.36	96.11	60.51	90.89	74.00
28	---	---	---	---	---	---	96.11	1.00	20.52	1.00	3.33	62.00
29	---	---	---	---	---	-1.00	32.97	1.00	14.54	91.13	81.67	70.00
30	---	---	---	---	---	---	87.15	90.89	87.15	76.69	83.66	1.00
31	---	---	---	---	---	---	-1.00	23.01	---		82.42	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	12.00	95.63	30.00	3.03	25.00	23.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	1.00	15.99	1.00	83.97	82.42	79.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	2.00	32.07	1.00	45.42	1.00	1.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	50.30	72.21	56.02	47.06	48.80	50.00

WTR YR 1993 TOTAL 15438.83 MEAN 94.72 MAX 232.07 MIN 47.06

PICABO

XC XC WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

MIN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	49.02	61.44	60.03	63.02	60.00
2	---	---	---	---	---	---	---	51.14	60.50	61.29	63.72	60.00
3	---	---	---	---	---	---	---	51.38	57.67	59.24	65.14	60.00
4	---	---	---	---	---	---	---	49.34	54.13	59.32	65.53	62.00
5	---	---	---	---	---	---	---	46.74	55.31	58.61	64.98	61.00
6	---	---	---	---	---	---	---	46.90	53.97	57.91	64.59	62.00
7	---	---	---	---	---	---	---	46.90	52.17	58.77	65.30	62.00
8	---	---	---	---	---	---	---	46.90	52.24	59.24	62.70	62.00
9	---	---	---	---	---	---	---	46.66	53.74	59.79	63.09	61.00
10	---	---	---	---	---	---	---	50.12	57.20	61.05	64.43	61.00
11	---	---	---	---	---	---	---	53.11	55.00	60.66	65.61	62.00
12	---	---	---	---	---	---	---	56.10	52.40	61.05	63.80	61.00
13	---	---	---	---	---	---	---	57.83	53.74	59.87	63.33	57.00
14	---	---	---	---	---	---	---	58.53	56.88	60.81	63.57	57.00
15	---	---	---	---	---	---	---	58.61	60.66	60.81	63.96	57.00
16	---	---	---	---	---	---	---	58.61	58.14	61.52	64.04	58.00
17	---	---	---	---	---	---	---	57.83	57.91	61.05	61.44	59.00
18	---	---	---	---	---	---	---	58.14	60.26	60.11	61.92	59.00
19	---	---	---	---	---	---	---	59.87	61.68	61.13	64.20	56.00
20	---	---	---	---	---	---	---	60.97	63.25	63.09	66.87	56.00
21	---	---	---	---	---	---	45.48	61.92	64.51	63.17	65.61	53.00
22	---	---	---	---	---	---	49.26	59.95	62.39	61.84	62.39	52.00
23	---	---	---	---	---	---	48.00	59.08	60.11	61.36	62.15	52.00
24	---	---	---	---	---	---	49.18	60.97	58.38	59.16	62.62	52.00
25	---	---	---	---	---	---	49.34	62.15	59.64	58.69	60.81	53.00
26	---	---	---	---	---	---	49.10	61.76	61.52	59.95	58.93	53.00
27	---	---	---	---	---	---	48.63	61.84	63.17	59.79	59.01	53.00
28	---	---	---	---	---	---	48.39	61.84	64.75	60.26	59.71	53.00
29	---	---	---	---	---	---	50.20	61.68	62.15	63.64	60.42	54.00
30	---	---	---	---	---	---	49.02	61.21	59.48	63.57	59.64	54.00
31	---	---	---	---	---	---	---	62.23	---	62.86	59.01	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	4.00	39.33	17.00	79.64	19.00	36.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	48.66	56.11	58.48	60.63	62.95	57.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	50.20	62.23	64.75	63.64	66.87	62.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	45.48	46.66	52.17	57.91	58.93	52.00

WTR YR 1993 TOTAL 9547.53 MEAN 58.57 MAX 66.87 MIN 45.48

PICABO

XD XD WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

MIN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	49.26	61.92	61.13	64.04	61.00
2	---	---	---	---	---	---	---	50.12	60.66	61.84	64.35	61.00
3	---	---	---	---	---	---	---	51.22	58.38	60.26	65.30	61.00
4	---	---	---	---	---	---	---	48.55	56.10	60.19	65.69	62.00
5	---	---	---	---	---	---	---	47.76	56.02	59.87	65.14	62.00
6	---	---	---	---	---	---	---	47.76	55.00	59.32	65.22	63.00
7	---	---	---	---	---	---	---	47.84	53.50	59.95	65.69	63.00
8	---	---	---	---	---	---	---	48.08	53.97	60.19	63.72	63.00
9	---	---	---	---	---	---	---	48.16	55.15	60.58	64.12	62.00
10	---	---	---	---	---	---	---	50.59	57.59	61.68	64.82	62.00
11	---	---	---	---	---	---	---	52.87	56.33	61.60	65.77	63.00
12	---	---	---	---	---	---	---	55.47	54.76	61.92	64.59	63.00
13	---	---	---	---	---	---	---	57.28	55.55	61.05	64.20	60.00
14	---	---	---	---	---	---	---	58.06	57.75	61.60	64.35	59.00
15	---	---	---	---	---	---	---	58.46	60.66	61.68	64.35	59.00
16	---	---	---	---	---	---	—	58.61	59.48	62.15	64.51	59.00
17	---	---	---	---	---	---	---	58.22	59.01	61.84	63.09	60.00
18	---	---	---	---	---	---	---	58.46	60.74	61.36	63.25	60.00
19	---	---	---	---	---	---	---	59.87	61.92	61.92	64.59	58.00
20	---	---	---	---	---	---	---	60.89	63.41	63.17	66.08	57.00
21	---	---	---	---	---	---	45.33	61.44	64.27	63.33	65.69	56.00
22	---	---	---	---	---	---	48.94	60.42	62.94	62.47	63.88	55.00
23	---	---	---	---	---	---	47.84	59.79	61.21	61.68	63.49	54.00
24	---	---	---	---	---	---	48.86	60.97	59.79	60.26	63.72	54.00
25	---	---	---	---	---	---	49.10	61.92	60.50	60.19	62.62	55.00
26	---	---	---	---	---	---	48.79	61.92	61.99	61.05	61.21	55.00
27	---	---	---	---	---	---	48.47	62.07	63.41	60.89	60.97	55.00
28	---	---	---	---	---	---	48.55	61.99	64.35	61.36	61.36	55.00
29	---	---	---	---	---	---	49.41	61.76	62.86	63.57	61.84	56.00
30	---	---	---	---	---	---	49.02	61.60	61.05	64.20	61.29	56.00
31	---	---	---	---	---	---	---	62.23	---	63.88	60.74	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	4.00	43.64	17.00	6.18	19.00	82.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	48.43	56.25	59.34	61.49	63.86	59.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	49.41	62.23	64.35	64.20	66.08	63.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	45.33	47.76	53.50	59.32	60.74	54.00

WTR YR 1993 TOTAL 9676.99 MEAN 59.37 MAX 66.08 MIN 45.33

PICABO

XG XG WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

MAX VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	54.05	68.13	67.73	69.62	66.00
2	---	---	---	---	---	---	---	55.55	65.85	65.92	70.01	65.00
3	---	---	---	---	---	---	---	54.92	60.19	64.67	70.64	66.00
4	---	---	---	---	---	---	---	52.09	58.53	65.06	69.31	66.00
5	---	---	---	---	---	---	---	49.89	56.88	64.82	70.48	67.00
6	---	---	---	---	---	---	---	51.22	56.18	65.69	70.80	67.00
7	---	---	---	---	---	---	---	53.03	57.83	65.85	69.70	67.00
8	---	---	---	---	---	---	---	53.58	60.42	66.40	68.52	67.00
9	---	---	---	---	---	---	---	57.36	64.43	67.26	68.91	67.00
10	---	---	---	---	---	---	---	58.77	61.92	67.34	70.48	67.00
11	---	---	---	---	---	---	---	61.92	61.21	67.81	69.54	67.00
12	---	---	---	---	---	---	---	63.96	62.47	66.63	67.89	65.00
13	---	---	---	---	---	---	---	65.45	64.82	66.87	68.76	62.00
14	---	---	---	---	---	---	---	65.69	67.65	66.63	67.73	62.00
15	---	---	---	---	---	---	---	66.24	68.44	67.03	68.44	62.00
16	---	---	---	---	---	---	---	64.75	64.51	67.03	67.34	63.00
17	---	---	---	---	---	---	---	64.67	67.97	66.79	67.18	62.00
18	---	---	---	---	---	---	---	66.79	69.70	67.10	68.05	62.00
19	---	---	---	---	---	---	---	68.36	71.11	68.36	69.38	60.00
20	---	---	---	---	---	---	---	68.68	71.90	68.52	69.86	59.00
21	---	---	---	---	---	---	52.24	67.42	69.31	67.18	69.07	58.00
22	---	---	---	---	---	---	51.69	66.24	67.58	65.77	67.65	57.00
23	---	---	---	---	---	---	52.56	67.65	65.85	63.64	68.05	57.00
24	---	---	---	---	---	---	53.50	68.52	66.16	64.59	67.34	57.00
25	---	---	---	---	---	---	52.56	68.05	67.97	65.61	65.53	58.00
26	---	---	---	---	---	---	53.03	69.54	70.01	65.45	64.75	58.00
27	---	---	---	---	---	---	52.87	68.91	71.19	66.16	65.22	59.00
28	---	---	---	---	---	---	54.60	67.42	69.70	67.81	65.85	59.00
29	---	---	---	---	---	---	53.97	68.52	67.34	70.17	65.06	59.00
30	---	---	---	---	---	---	53.03	67.34	66.87	69.54	64.90	59.00
31	---	---	---	---	---	---	---	67.89	---	69.54	65.22	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	5.00	44.47	19.00	68.97	21.00	84.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	53.01	62.72	65.40	66.74	68.11	62.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	54.60	69.54	71.90	70.17	70.80	67.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	51.69	49.89	56.18	63.64	64.75	57.00

WTR YR 1993 TOTAL 10501.29 MEAN 64.43 MAX 71.90 MIN 49.89

PICABO

XH XH WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

MAX VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	51.93	64.67	64.43	66.63	63.00
2	---	---	---	---	---	---	---	53.03	64.51	64.43	66.87	64.00
3	---	---	---	---	---	---	---	53.50	60.58	62.54	67.65	64.00
4	---	---	---	---	---	---	---	52.24	58.85	62.54	67.65	64.00
5	---	---	---	---	---	---	---	49.57	57.04	62.54	67.42	64.00
6	---	---	---	---	---	---	---	49.57	56.57	62.62	67.73	65.00
7	---	---	---	---	---	---	---	50.59	56.18	62.86	67.81	65.00
8	---	---	---	---	---	---	---	51.14	57.59	63.33	66.16	65.00
9	---	---	---	---	---	---	---	53.03	60.11	63.88	66.40	65.00
10	---	---	---	---	---	---	---	54.68	60.03	64.35	67.42	65.00
11	---	---	---	---	---	---	---	57.12	58.93	64.67	67.58	65.00
12	---	---	---	---	---	---	---	59.24	58.85	64.67	66.87	65.00
13	---	---	---	---	---	---	---	60.81	60.50	64.04	66.40	63.00
14	---	---	---	---	---	---	---	61.29	62.86	64.12	66.48	61.00
15	---	---	---	---	---	---	---	61.60	63.88	64.27	66.24	61.00
16	---	---	---	---	---	---	---	61.44	63.41	64.43	66.24	61.00
17	---	---	---	---	---	---	---	61.29	63.49	64.35	65.77	61.00
18	---	---	---	---	---	---	---	62.47	64.90	64.35	65.53	61.00
19	---	---	---	---	---	---	---	63.64	66.32	65.14	66.71	61.00
20	---	---	---	---	---	---	---	64.20	67.03	65.45	67.42	59.00
21	---	---	---	---	---	---	49.73	64.27	67.03	65.45	67.50	59.00
22	---	---	---	---	---	---	49.96	63.64	65.30	64.90	66.63	57.00
23	---	---	---	---	---	---	50.83	63.49	64.43	63.25	65.77	56.00
24	---	---	---	---	---	---	51.46	64.43	63.17	62.54	65.85	56.00
25	---	---	---	---	---	---	51.77	64.51	64.43	63.02	65.45	57.00
26	---	---	---	---	---	---	51.30	65.30	65.92	63.25	64.20	57.00
27	---	---	---	---	---	---	51.93	65.30	66.87	63.57	63.41	57.00
28	---	---	---	---	---	---	51.93	64.98	66.79	64.59	63.72	57.00
29	---	---	---	---	---	---	52.64	64.67	66.24	66.48	63.88	58.00
30	---	---	---	---	---	---	51.46	64.67	63.96	66.48	63.49	58.00
31	---	---	---	---	---	---	---	64.59	---	66.55	63.25	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	5.00	42.23	18.00	89.09	20.00	48.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	51.30	59.43	62.68	64.16	66.13	61.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	52.64	65.30	67.03	66.55	67.81	65.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	49.73	49.57	56.18	62.54	63.25	56.00

WTR YR 1993 TOTAL 10123.31 MEAN 62.11 MAX 67.81 MIN 49.57

PICABO

YM YM WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	27.62	37.27	36.21	41.28	29.00
2	---	---	---	---	---	---	---	33.10	38.25	38.66	42.74	35.00
3	---	---	---	---	---	---	---	35.70	42.50	38.38	43.15	36.00
4	---	---	---	---	---	---	---	13.82	40.59	41.33	48.34	39.00
5	---	---	---	---	---	---	---	29.29	44.54	36.75	47.41	36.00
6	---	---	---	---	---	---	---	39.07	44.24	32.67	42.74	36.00
7	---	---	---	---	---	---	---	27.33	41.78	30.06	49.23	36.00
8	---	---	---	---	---	---	---	24.16	40.09	36.96	43.39	31.00
9	---	---	---	---	---	---	---	24.35	40.58	35.82	39.28	33.00
10	---	---	---	---	---	---	---	27.88	45.48	29.65	42.46	32.00
11	---	---	---	---	---	---	---	28.84	39.19	33.80	49.60	30.00
12	---	---	---	---	---	---	---	21.77	29.58	29.05	44.75	25.00
13	---	---	---	---	---	---	---	34.41	29.64	33.34	44.16	27.00
14	---	---	---	---	---	---	---	35.78	39.00	32.42	42.62	22.00
15	---	---	---	---	---	---	---	41.18	44.03	33.60	45.30	27.00
16	---	---	---	---	---	---	---	39.25	41.22	33.83	42.36	30.00
17	---	---	---	---	---	---	---	38.42	40.94	33.77	38.24	39.00
18	---	---	---	---	---	---	---	39.17	41.21	30.79	40.77	42.00
19	---	---	---	---	---	---	---	42.71	45.33	38.02	39.32	37.00
20	---	---	---	---	---	---	---	42.37	44.34	38.90	42.46	34.00
21	---	---	---	---	---	---	21.47	37.22	48.52	38.66	46.26	15.00
22	---	---	---	---	---	---	32.68	34.34	35.75	40.53	43.69	15.00
23	---	---	---	---	---	---	24.66	32.86	24.53	49.18	43.47	17.00
24	---	---	---	---	---	---	29.11	36.04	33.28	45.15	36.32	18.00
25	---	---	---	---	---	---	28.91	33.37	40.86	40.29	26.79	24.00
26	---	---	---	---	---	---	27.98	38.11	45.07	43.45	26.03	23.00
27	---	---	---	---	---	---	22.03	31.21	44.24	42.82	27.33	24.00
28	---	---	---	---	---	---	22.41	32.30	41.37	42.80	30.04	23.00
29	---	---	---	---	---	---	29.13	34.02	28.41	42.91	31.97	25.00
30	---	---	---	---	---	---	30.52	33.30	30.31	40.16	26.79	23.00
31	---	---	---	---	---	---	---	36.34	---	37.57	25.59	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	2.00	25.33	11.00	57.53	12.00	76.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	26.89	33.08	39.40	37.34	39.80	29.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	32.68	42.71	48.52	49.18	49.60	42.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	21.47	13.82	24.53	29.05	25.59	15.00

WTR YR 1993 TOTAL 5744.50 MEAN 35.24 MAX 49.60 MIN 13.82

PICABO

ZK ZK WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

MAX VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	59.32	74.57	73.47	75.60	71.00
2	---	---	---	---	---	---	---	60.11	64.20	67.03	75.91	70.00
3	---	---	---	---	---	---	---	56.57	61.76	68.83	76.15	73.00
4	---	---	---	---	---	---	---	53.74	59.16	69.54	72.21	71.00
5	---	---	---	---	---	---	---	51.46	58.38	69.70	75.75	73.00
6	---	---	---	---	---	---	---	53.50	57.12	71.66	76.30	73.00
7	---	---	---	---	---	---	---	57.12	61.44	71.51	68.99	73.00
8	---	---	---	---	---	---	---	57.75	65.30	72.14	73.32	72.00
9	---	---	---	---	---	---	---	64.20	72.06	73.32	73.79	72.00
10	---	---	---	---	---	---	---	64.67	64.04	72.61	76.54	73.00
11	---	---	---	---	---	---	---	68.52	66.32	73.24	73.00	72.00
12	---	---	---	---	---	---	---	70.09	68.91	70.64	72.06	69.00
13	---	---	---	---	---	---	---	71.51	72.37	72.45	74.02	66.00
14	---	---	---	---	---	---	---	71.51	75.04	71.35	73.00	66.00
15	---	---	---	---	---	---	---	73.55	76.15	72.14	73.71	67.00
16	---	---	---	---	---	---	---	71.51	70.48	71.90	71.11	68.00
17	---	---	---	---	---	---	---	71.59	74.73	72.06	71.98	65.00
18	---	---	---	---	---	---	---	73.71	76.93	73.24	73.79	66.00
19	---	---	---	---	---	---	---	75.12	78.43	75.36	75.44	63.00
20	---	---	---	---	---	---	---	74.73	78.90	74.34	74.97	62.00
21	---	---	---	---	---	---	57.04	72.53	73.39	71.90	73.32	60.00
22	---	---	---	---	---	---	53.66	70.96	72.76	66.79	72.45	60.00
23	---	---	---	---	---	---	56.57	74.02	70.33	63.72	73.87	60.00
24	---	---	---	---	---	---	57.36	75.52	71.82	69.62	72.29	61.00
25	---	---	---	---	---	---	55.47	73.32	73.79	71.35	69.38	63.00
26	---	---	---	---	---	---	56.88	75.67	76.54	71.35	68.91	62.00
27	---	---	---	---	---	---	55.86	74.89	77.48	71.98	70.25	63.00
28	---	---	---	---	---	---	60.11	72.45	75.04	74.81	71.27	63.00
29	---	---	---	---	---	---	54.60	74.81	70.09	77.17	69.23	64.00
30	---	---	---	---	---	---	56.57	73.71	72.37	75.52	69.38	63.00
31	---	---	---	---	---	---	---	73.63	---	75.28	70.33	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	5.00	11.79	21.00	26.02	22.00	16.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	56.41	68.12	70.33	71.81	72.85	67.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	60.11	75.67	78.90	77.17	76.54	73.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	53.66	51.46	57.12	63.72	68.91	60.00

WTR YR 1993 TOTAL 11287.12 MEAN 69.25 MAX 78.90 MIN 51.46

PICABO

ZL ZL WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

MIN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	46.90	59.01	56.80	59.40	58.00
2	---	---	---	---	---	---	---	50.59	58.85	59.01	60.58	56.00
3	---	---	---	---	---	---	---	49.81	55.63	56.65	62.78	57.00
4	---	---	---	---	---	---	---	46.66	49.96	56.88	63.80	59.00
5	---	---	---	---	---	---	---	45.01	53.74	55.39	63.33	59.00
6	---	---	---	---	---	---	---	44.93	52.48	54.05	61.68	59.00
7	---	---	---	---	---	---	---	45.09	50.44	55.31	62.70	59.00
8	---	---	---	---	---	---	---	44.54	49.18	55.94	59.71	59.00
9	---	---	---	---	---	---	---	43.52	50.83	56.80	60.11	58.00
10	---	---	---	---	---	---	---	47.92	55.31	58.22	62.47	58.00
11	---	---	---	---	---	---	---	51.69	52.17	57.43	63.88	59.00
12	---	---	---	---	---	---	---	55.31	48.00	57.75	61.21	58.00
13	---	---	---	---	---	---	---	57.12	49.96	55.70	60.42	52.00
14	---	---	---	---	---	---	---	57.59	54.37	57.83	60.89	52.00
15	---	---	---	---	---	---	---	57.20	59.01	58.30	62.23	53.00
16	---	---	---	---	---	---	---	57.20	55.00	58.77	62.39	56.00
17	---	---	---	---	---	---	---	55.94	55.47	58.14	57.43	56.00
18	---	---	---	---	---	---	---	56.41	57.98	56.02	58.85	57.00
19	---	---	---	---	---	---	---	58.38	59.64	58.22	62.54	52.00
20	---	---	---	---	---	---	---	59.71	61.68	61.44	67.65	52.00
21	---	---	---	---	---	---	45.17	61.13	63.25	61.52	64.59	47.00
22	---	---	---	---	---	---	48.79	57.67	60.50	59.40	58.30	46.00
23	---	---	---	---	---	---	46.03	56.80	57.12	60.11	58.53	47.00
24	---	---	---	---	---	---	48.16	59.87	55.00	56.41	59.08	46.00
25	---	---	---	---	---	---	48.16	60.74	56.80	54.84	56.65	50.00
26	---	---	---	---	---	---	47.84	59.79	59.56	56.33	53.58	48.00
27	---	---	---	---	---	---	46.19	59.71	61.13	56.02	54.52	49.00
28	---	---	---	---	---	---	46.43	59.79	63.57	56.73	55.78	49.00
29	---	---	---	---	---	---	49.65	59.87	59.32	61.76	56.41	50.00
30	---	---	---	---	---	---	46.98	59.01	55.78	60.58	55.39	50.00
31	---	---	---	---	---	---	---	60.66	---	59.16	54.84	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	4.00	86.56	16.00	87.51	18.00	23.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	47.34	54.41	56.02	57.66	60.06	54.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	49.65	61.13	63.57	61.76	67.65	59.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	45.17	43.52	48.00	54.05	53.58	46.00

WTR YR 1993 TOTAL 9113.57 MEAN 55.91 MAX 67.65 MIN 43.52

PICABO

EJ EJ WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.17	0.05	0.02	0.01	0.00	0.08	0.11	0.17	0.22	0.38	---	---
2	0.15	0.04	---	0.01	0.00	0.08	0.15	0.15	0.27	0.28	---	---
3	0.18	0.06	0.02	0.03	0.01	0.09	0.05	0.21	0.25	0.29	---	---
4	0.17	0.04	0.01	0.02	0.01	0.08	0.08	0.11	0.29	0.31	---	---
5	0.13	0.04	0.01	0.02	0.02	0.04	0.08	0.17	0.25	0.13	---	---
6	0.13	0.03	0.01	0.01	0.02	0.07	0.06	0.27	0.16	0.22	---	---
7	0.06	0.04	0.01	0.01	0.01	0.07	0.10	0.23	0.17	0.31	---	---
8	0.03	0.03	0.01	0.00	0.01	0.08	0.11	0.23	0.22	0.36	---	---
9	0.06	0.04	0.03	0.01	0.00	0.09	0.08	0.24	0.27	0.35	---	---
10	0.08	0.05	0.03	0.00	0.01	0.04	0.10	0.25	0.32	0.37	---	---
11	0.04	0.05	0.02	0.01	0.01	0.09	0.16	0.31	0.32	0.36	---	---
12	0.10	0.04	0.02	0.01	0.00	0.10	0.16	0.21	0.29	0.35	---	---
13	0.09	0.01	0.00	0.01	0.00	0.11	0.12	0.26	0.18	0.35	---	---
14	0.08	0.03	0.01	0.01	0.03	0.13	0.16	0.21	0.23	---	---	---
15	0.03	0.02	0.01	0.02	0.03	0.12	0.18	0.14	0.24	---	---	---
16	0.05	0.04	0.00	0.01	0.06	0.06	0.21	0.08	0.21	---	---	---
17	0.08	0.04	0.01	0.02	0.02	0.10	0.22	0.11	0.29	---	---	---
18	0.06	0.03	0.01	0.03	0.03	0.06	0.23	0.17	0.34	---	---	---
19	0.08	0.02	0.00	0.03	---	0.06	0.24	0.10	0.37	---	---	---
20	0.08	0.03	0.00	0.02	---	0.08	0.26	---	0.36	---	---	---
21	0.07	0.02	0.00	0.04	---	0.08	0.23	0.18	0.31	---	---	---
22	0.10	0.01	0.00	0.04	---	0.03	0.14	0.26	0.36	---	---	---
23	0.11	0.00	0.00	0.03	---	0.06	0.05	0.28	0.38	---	---	---
24	0.09	0.00	0.00	0.03	0.07	0.07	0.08	0.30	0.37	---	---	---
25	0.08	0.00	0.00	0.04	0.06	0.11	0.05	0.33	0.40	---	---	---
26	0.07	0.00	0.00	0.01	0.03	0.11	0.03	0.30	0.33	---	---	---
27	0.04	0.00	0.01	0.02	0.03	0.10	0.05	0.11	0.31	---	---	---
28	0.06	0.01	0.01	0.03	0.05	0.15	0.06	0.19	0.37	---	---	---
29	0.04	0.02	0.00	0.00	---	0.13	0.16	0.23	0.38	---	---	---
30	0.06	0.02	0.01	0.01	---	0.14	0.14	0.31	0.38	---	---	---
31	0.05	---	0.02	0.00	---	0.08	---	0.05	---	---	---	---
TOTAL	2.62	0.81	0.28	0.54	0.51	2.69	3.85	6.16	8.84	4.06	0.00	0.00
MEAN	0.08	0.03	0.01	0.02	0.02	0.09	0.13	0.21	0.29	0.31	0.00	0.00
MAX	0.18	0.06	0.03	0.04	0.07	0.15	0.26	0.33	0.40	0.38	0.00	0.00
MIN	0.03	0.00	0.00	0.00	0.00	0.03	0.03	0.05	0.16	0.13	0.00	0.00

WTR YR 1994 TOTAL 30.36 MEAN 0.11 MAX 0.40 MIN 0.00

PICABO

ET ET WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.22	0.08	0.03	0.00	0.05	0.06	0.12	0.18	0.22	0.37	---	---
2	0.17	0.08	---	0.01	0.04	0.07	0.13	0.17	0.27	0.33	---	---
3	0.20	0.12	0.03	0.01	0.04	0.07	0.08	0.19	0.24	0.36	---	---
4	0.20	0.07	0.03	0.01	0.04	0.08	0.12	0.12	0.28	0.33	---	---
5	0.21	0.08	0.05	0.02	0.04	0.05	0.11	0.15	---	0.26	---	---
6	0.16	0.08	0.04	0.04	0.04	0.08	0.08	0.26	0.26	0.24	---	---
7	0.12	0.07	0.01	0.04	0.00	0.08	0.12	0.21	0.24	0.28	---	---
8	0.07	0.07	0.00	0.01	0.02	0.08	0.13	0.22	0.29	0.29	---	---
9	0.08	0.07	0.03	0.01	0.02	0.09	0.09	0.23	0.26	0.34	---	---
10	0.09	0.09	0.03	0.02	0.02	0.05	0.10	0.23	0.28	0.37	---	---
11	0.07	0.09	0.04	0.01	0.03	0.08	0.15	0.27	0.28	0.37	---	---
12	0.10	0.07	0.05	0.02	0.06	0.10	0.17	0.23	0.25	0.37	---	---
13	0.09	0.05	0.05	0.02	0.04	0.10	0.17	0.28	0.25	0.33	---	---
14	0.09	0.07	0.05	0.03	0.04	0.11	0.19	0.23	0.31	---	---	---
15	0.05	0.05	0.03	0.03	0.05	0.11	0.18	0.21	0.30	---	---	---
16	0.06	0.06	0.01	0.02	0.07	0.09	0.18	0.13	0.27	---	---	---
17	0.08	0.06	0.02	0.03	0.04	0.13	0.19	0.15	0.28	---	---	---
18	0.08	0.08	0.04	0.04	0.04	0.09	0.21	0.19	0.32	---	---	---
19	0.10	0.07	0.03	0.03	---	0.11	0.21	0.13	0.32	---	---	---
20	0.09	0.07	0.01	0.04	---	0.10	0.23	---	0.35	---	---	---
21	0.09	0.06	0.01	0.05	---	0.09	0.22	0.17	0.32	---	---	---
22	0.10	0.03	0.01	0.05	---	0.05	0.17	0.23	0.35	---	---	---
23	0.12	0.02	0.02	0.05	---	0.11	0.11	0.25	0.37	---	---	---
24	0.13	0.04	0.02	0.03	0.04	0.10	0.11	0.25	0.36	---	---	---
25	0.12	0.05	0.02	0.05	0.04	0.11	0.08	0.27	0.38	---	---	---
26	0.11	0.04	0.01	0.02	0.02	0.12	0.05	0.27	0.36	---	---	---
27	0.07	0.03	0.00	0.03	0.03	0.12	0.06	0.17	0.34	---	---	---
28	0.10	0.01	0.02	0.04	0.05	0.16	0.08	0.24	0.34	---	---	---
29	0.08	0.00	0.02	0.02	---	0.14	0.16	0.24	0.37	---	---	---
30	0.10	0.02	0.03	0.04	---	0.15	0.15	0.28	0.36	---	---	---
31	0.09	---	0.01	0.06	---	0.10	---	0.10	---	---	---	---
TOTAL	3.44	1.78	0.75	0.88	0.86	2.98	4.15	6.25	8.82	4.24	0.00	0.00
MEAN	0.11	0.06	0.02	0.03	0.04	0.10	0.14	0.21	0.30	0.33	0.00	0.00
MAX	0.22	0.12	0.05	0.06	0.07	0.16	0.23	0.28	0.38	0.37	0.00	0.00
MIN	0.05	0.00	0.00	0.00	0.00	0.05	0.05	0.10	0.22	0.24	0.00	0.00

WTR YR 1994 TOTAL 34.15 MEAN 0.12 MAX 0.38 MIN 0.00

PICABO

MM MM WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.88	34.62	31.96	29.91	12.79	38.57	43.67	48.23	54.78	72.22	---	---
2	58.13	35.78	31.90	26.85	13.71	40.75	47.45	50.06	58.42	65.98	---	---
3	59.97	44.18	26.01	32.99	15.21	41.38	42.83	51.28	65.31	61.59	---	---
4	61.29	33.51	29.68	34.23	17.34	41.16	38.35	54.93	60.41	62.28	---	---
5	61.54	29.59	18.03	31.27	20.81	38.22	37.49	57.84	60.46	56.53	---	---
6	58.01	28.09	22.58	23.47	24.89	35.22	40.08	61.50	57.99	56.39	---	---
7	47.80	30.28	27.43	18.14	31.21	35.36	37.40	60.17	48.92	64.15	---	---
8	39.13	29.77	33.97	25.08	24.55	37.00	38.72	58.27	50.73	71.03	---	---
9	42.35	32.41	33.76	24.50	20.20	37.69	43.54	62.47	59.25	74.70	---	---
10	44.71	37.45	34.45	15.76	24.49	36.49	46.46	65.42	63.71	74.28	---	---
11	47.74	36.88	39.62	25.79	23.99	39.01	46.56	67.20	68.77	68.99	---	---
12	48.54	30.31	30.04	25.44	11.15	40.34	48.78	62.92	68.61	68.68	---	---
13	48.34	23.07	21.34	22.51	17.40	43.77	47.06	58.08	64.45	69.46	---	---
14	46.53	28.00	26.28	19.23	23.36	48.54	46.45	56.73	49.75	---	---	---
15	43.20	25.55	23.04	28.12	26.28	50.15	47.92	59.37	52.40	---	---	---
16	41.33	32.69	22.19	23.29	37.32	47.53	56.16	47.77	51.88	---	---	---
17	43.77	34.21	21.35	24.98	36.75	39.21	62.39	44.10	59.00	---	---	---
18	41.51	32.62	19.38	27.76	30.58	42.14	64.13	50.14	65.58	---	---	---
19	42.26	23.10	15.64	27.60	24.37	35.37	65.34	47.52	69.81	---	---	---
20	40.23	25.61	11.72	26.17	22.85	33.41	64.07	45.48	75.60	---	---	---
21	44.23	29.00	17.66	30.05	27.82	40.90	66.83	51.13	74.33	---	---	---
22	49.65	31.23	15.90	31.54	24.91	34.02	51.96	56.14	73.57	---	---	---
23	50.42	19.47	15.65	33.34	24.32	29.37	45.84	59.97	72.18	---	---	---
24	48.60	4.54	13.86	34.65	37.19	32.69	44.59	62.56	70.46	---	---	---
25	42.91	2.56	13.57	35.34	37.94	38.70	39.62	66.67	74.64	---	---	---
26	39.39	5.13	20.11	28.66	37.40	40.46	38.35	67.96	64.79	---	---	---
27	38.98	12.12	26.85	26.68	35.56	37.48	37.85	58.10	63.33	---	---	---
28	47.20	28.65	17.98	26.39	32.93	46.49	38.74	53.80	72.67	---	---	---
29	31.95	34.89	14.92	21.82	---	41.74	43.70	58.37	73.93	---	---	---
30	33.95	32.39	21.12	20.14	---	46.50	46.39	63.80	73.73	---	---	---
31	39.64	---	26.25	11.51	---	43.70	---	55.80	---	---	---	---
TOTAL	14.00	27.70	7.00	13.21	7.00	33.36	14.00	63.78	19.00	66.28	0.00	0.00
MEAN	46.59	27.59	23.36	26.23	25.62	39.79	47.29	56.90	63.98	66.64	0.00	0.00
MAX	61.54	44.18	39.62	35.34	37.94	50.15	66.83	67.96	75.60	74.70	0.00	0.00
MIN	31.95	2.56	11.72	11.51	11.15	29.37	37.40	44.10	48.92	56.39	0.00	0.00

WTR YR 1994 TOTAL 11728.25 MEAN 41.01 MAX 75.60 MIN 2.56

PICABO

MN MN WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

MIN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44.04	18.29	23.90	21.28	-3.96	27.52	27.22	39.27	45.09	52.22	---	---
2	39.74	20.16	23.66	16.72	2.08	30.09	29.16	34.23	38.77	48.06	---	---
3	44.88	31.28	16.40	24.38	2.79	31.25	34.89	32.21	49.94	42.39	---	---
4	43.31	17.87	14.99	24.20	4.70	30.16	27.55	43.21	46.11	40.45	---	---
5	47.66	20.09	7.12	18.36	7.35	29.52	23.86	48.27	44.90	42.46	---	---
6	40.72	14.26	13.27	8.83	12.65	24.14	33.57	44.49	47.37	36.51	---	---
7	34.49	19.04	16.00	8.68	23.04	21.83	30.45	41.84	32.90	45.12	---	---
8	32.11	17.33	29.12	14.70	16.97	26.00	23.90	39.68	33.10	49.94	---	---
9	34.00	16.44	27.45	8.80	4.27	24.14	34.89	47.26	42.46	52.10	---	---
10	32.21	29.06	25.73	-4.80	13.64	28.86	37.87	47.33	42.46	55.39	---	---
11	36.94	26.78	28.66	16.87	7.12	27.79	27.82	48.46	46.29	48.24	---	---
12	33.96	14.85	12.98	10.90	-5.16	29.39	33.33	52.68	52.02	40.11	---	---
13	40.79	10.27	3.61	8.65	0.30	30.92	36.21	42.08	52.45	44.77	---	---
14	37.94	12.20	17.08	4.19	7.66	34.39	35.65	31.78	40.96	---	---	---
15	35.19	10.12	11.91	12.32	13.90	33.40	25.53	50.05	37.27	---	---	---
16	31.85	22.18	17.51	9.10	25.70	38.74	35.38	43.59	34.99	---	---	---
17	36.48	20.76	11.98	6.47	26.51	29.29	44.63	37.54	33.66	---	---	---
18	28.62	16.83	12.83	13.38	26.07	28.12	47.69	36.77	47.33	---	---	---
19	28.52	10.87	3.41	13.49	12.83	24.99	51.07	40.38	48.90	---	---	---
20	26.41	13.93	-1.00	7.50	6.36	15.50	44.15	39.78	53.35	---	---	---
21	31.28	11.95	12.69	22.32	21.28	29.82	46.01	35.48	51.79	---	---	---
22	37.64	15.90	11.76	20.76	15.35	26.78	37.90	41.33	50.80	---	---	---
23	38.91	6.28	7.85	21.56	12.54	18.86	36.94	43.07	51.91	---	---	---
24	34.46	-5.20	4.62	18.61	33.17	15.90	38.37	43.14	45.55	---	---	---
25	25.73	-5.69	-1.35	28.02	32.90	23.49	33.86	48.71	51.60	---	---	---
26	20.96	-7.67	5.24	20.83	34.26	26.24	33.63	48.16	55.43	---	---	---
27	22.94	-5.65	16.80	19.07	27.72	20.34	33.66	48.60	40.48	---	---	---
28	34.16	9.33	2.98	16.33	19.32	25.84	33.60	38.87	49.08	---	---	---
29	18.47	29.56	0.66	9.02	---	23.21	29.79	42.80	55.97	---	---	---
30	20.93	28.39	8.23	6.20	---	27.42	33.60	47.84	52.14	---	---	---
31	26.34	---	14.63	-3.96	---	32.31	---	52.76	---	---	---	---
TOTAL	10.00	39.81	4.00	22.78	4.00	36.25	10.00	31.66	13.00	97.76	0.00	0.00
MEAN	33.60	14.66	12.93	13.64	14.33	26.98	34.74	42.96	45.84	45.98	0.00	0.00
MAX	47.66	31.28	29.12	28.02	34.26	38.74	51.07	52.76	55.97	55.39	0.00	0.00
MIN	18.47	-7.67	-1.35	-4.80	-5.16	15.50	23.86	31.78	32.90	36.51	0.00	0.00

WTR YR 1994 TOTAL 7889.27 MEAN 27.58 MAX 55.97 MIN -7.67

PICABO

MX MX WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

MAX VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80.93	49.45	40.48	35.52	31.02	52.18	60.29	58.93	64.45	89.43	---	---
2	78.11	50.91	38.37	34.62	29.79	58.15	64.69	63.68	76.36	78.85	---	---
3	81.71	55.84	36.94	43.63	33.33	54.58	50.24	65.81	83.49	76.18	---	---
4	84.84	45.94	36.97	43.76	33.37	51.91	51.72	67.21	71.57	79.91	---	---
5	82.95	43.07	32.67	36.48	34.89	46.79	50.95	71.52	87.06	74.49	---	---
6	71.90	43.83	33.70	35.58	37.94	48.02	50.80	78.79	69.06	71.84	---	---
7	58.45	45.51	34.85	32.21	36.71	48.90	45.12	73.12	60.56	82.36	---	---
8	44.88	45.97	39.07	30.32	33.43	49.16	51.68	72.79	65.27	90.83	---	---
9	51.83	49.45	43.07	36.64	28.79	53.55	50.35	80.29	73.97	98.05	---	---
10	57.94	54.74	46.04	34.52	31.78	49.23	58.28	81.71	81.06	90.39	---	---
11	61.91	53.66	46.26	33.70	33.83	51.68	62.10	84.97	87.77	88.70	---	---
12	61.73	47.19	39.88	38.00	28.76	53.15	65.61	77.68	81.19	88.63	---	---
13	62.89	36.34	32.41	38.04	32.87	60.82	54.18	71.35	73.35	87.55	---	---
14	60.33	43.21	39.17	40.48	40.79	65.22	57.51	73.97	58.45	---	---	---
15	53.51	43.25	36.71	41.81	41.03	67.87	67.66	67.31	65.76	---	---	---
16	54.38	48.97	25.40	35.32	48.27	60.78	77.38	53.03	65.71	---	---	---
17	55.39	49.04	31.75	42.46	42.94	49.16	81.25	53.47	78.97	---	---	---
18	53.31	39.58	32.01	43.66	35.45	54.74	83.02	64.93	82.49	---	---	---
19	59.19	40.48	30.22	43.66	36.08	41.50	81.84	53.94	89.80	---	---	---
20	57.22	43.04	20.16	46.18	32.28	47.01	82.56	58.24	98.46	---	---	---
21	58.67	46.43	22.39	44.95	37.21	52.14	82.16	66.40	94.35	---	---	---
22	66.90	42.80	20.96	49.16	33.33	40.89	63.31	70.65	92.95	---	---	---
23	69.32	24.17	27.75	46.72	33.00	40.45	57.68	77.56	88.92	---	---	---
24	64.26	14.23	27.35	45.83	41.19	48.86	54.18	79.22	87.20	---	---	---
25	59.14	21.03	33.33	46.43	48.97	54.70	49.82	83.49	95.14	---	---	---
26	56.30	25.12	33.20	32.44	41.57	55.39	42.63	84.90	70.70	---	---	---
27	50.88	27.49	34.95	36.21	42.63	53.59	44.63	68.43	84.02	---	---	---
28	58.93	40.92	34.39	36.61	43.80	66.60	47.95	70.76	93.49	---	---	---
29	46.29	42.28	29.66	28.96	---	58.49	56.59	73.63	91.81	---	---	---
30	52.18	40.52	32.87	33.73	---	64.11	59.32	77.74	92.80	---	---	---
31	53.27	---	36.94	26.41	---	58.80	---	62.89	---	---	---	---
TOTAL	19.00	54.46	10.00	94.04	10.00	58.42	18.00	88.41	24.00	97.21	0.00	0.00
MEAN	61.60	41.82	33.87	38.52	36.61	53.50	60.18	70.59	80.21	84.40	0.00	0.00
MAX	84.84	55.84	46.26	49.16	48.97	67.87	83.02	84.97	98.46	98.05	0.00	0.00
MIN	44.88	14.23	20.16	26.41	28.76	40.45	42.63	53.03	58.45	71.84	0.00	0.00

WTR YR 1994 TOTAL 15588.73 MEAN 54.51 MAX 98.46 MIN 14.23

PICABO

PC PC WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

LAST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.83	10.49	4.26	5.01	5.72	7.01	7.09	8.63	10.52	10.49	---	---
2	9.83	10.49	4.29	5.02	5.72	7.01	7.09	8.63	10.51	10.50	---	---
3	9.82	10.49	4.29	5.02	5.72	7.01	7.20	8.63	10.53	10.52	---	---
4	9.83	10.51	4.39	5.31	5.72	7.01	7.20	8.63	10.53	10.51	---	---
5	9.84	10.50	4.39	5.37	5.72	7.01	7.19	8.63	10.53	10.54	---	---
6	9.84	10.51	4.39	5.37	5.72	7.01	7.34	8.63	10.54	10.56	---	---
7	9.98	10.51	4.40	5.37	5.86	7.02	7.38	8.62	10.55	10.55	---	---
8	10.09	10.51	4.91	5.51	5.92	7.02	7.38	8.62	10.54	10.54	---	---
9	10.09	10.50	4.93	5.54	5.98	7.01	7.38	8.62	10.55	10.49	---	---
10	10.08	10.52	4.94	5.65	6.04	7.01	7.46	8.63	10.52	10.51	---	---
11	10.08	10.52	4.94	5.65	6.31	7.09	7.45	8.64	10.52	10.52	---	---
12	10.08	10.52	4.95	5.65	6.31	7.08	7.47	8.66	10.53	10.51	---	---
13	10.10	10.52	4.94	5.65	6.32	7.08	7.47	8.67	10.56	10.50	---	---
14	10.10	10.52	4.95	5.64	6.32	7.07	7.47	8.67	10.56	---	---	---
15	10.19	0.90	4.95	5.64	6.31	7.04	7.45	8.72	10.58	---	---	---
16	10.35	4.08	4.95	5.64	6.34	7.07	7.44	8.70	10.56	---	---	---
17	10.38	4.08	4.96	5.65	6.66	7.06	7.45	8.99	10.53	---	---	---
18	10.40	4.08	4.97	5.65	6.71	7.06	7.45	9.02	10.53	---	---	---
19	10.48	4.08	4.97	5.64	6.72	7.06	7.45	9.16	10.52	---	---	---
20	10.48	4.08	4.97	5.65	6.74	7.07	7.45	9.67	10.53	---	---	---
21	10.47	4.08	4.97	5.64	6.76	7.06	7.46	9.66	10.53	---	---	---
22	10.51	4.15	4.97	5.64	6.81	7.08	7.45	9.65	10.50	---	---	---
23	10.51	4.15	4.97	5.63	6.94	7.07	7.66	9.65	10.51	---	---	---
24	10.50	4.16	4.97	5.64	6.94	7.07	7.70	9.65	10.49	---	---	---
25	10.50	4.16	4.97	5.63	6.94	7.06	8.00	9.66	10.50	---	---	---
26	10.49	4.16	4.97	5.65	6.94	7.08	8.13	9.64	10.51	---	---	---
27	10.49	4.17	4.97	5.63	6.98	7.06	8.37	10.07	10.52	---	---	---
28	10.51	4.17	4.97	5.63	7.01	7.06	8.55	10.06	10.49	---	---	---
29	10.49	4.17	4.95	5.63	---	7.06	8.63	10.03	10.50	---	---	---
30	10.49	4.20	4.95	5.65	---	7.06	8.67	10.04	10.50	---	---	---
31	10.50	---	4.95	5.67	---	7.07	---	10.46	---	---	---	---
TOTAL	3.00	9.98	1.00	71.67	1.00	18.53	2.00	83.74	3.00	36.74	0.00	0.00
MEAN	10.24	7.00	4.82	5.54	6.36	7.05	7.60	9.15	10.53	10.52	0.00	0.00
MAX	10.51	10.52	4.97	5.67	7.01	7.09	8.67	10.46	10.58	10.56	0.00	0.00
MIN	9.82	0.90	4.26	5.01	5.72	7.01	7.09	8.62	10.49	10.49	0.00	0.00

WTR YR 1994 TOTAL 2209.19 MEAN 7.72 MAX 10.58 MIN 0.90

PICABO

PP PP WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DELTA VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.06	0.06	0.05	0.00	0.02	0.00	0.06	0.00	---	---
2	0.00	0.00	0.03	0.01	0.00	0.01	0.00	0.00	0.00	0.00	---	---
3	0.00	0.00	0.00	0.01	0.00	0.00	0.10	0.00	0.00	0.00	---	---
4	0.01	0.00	0.10	0.28	0.00	0.00	0.01	0.00	0.00	0.00	---	---
5	0.01	0.00	0.00	0.06	0.00	0.00	-0.01	0.00	0.00	0.03	---	---
6	0.01	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.01	---	---
7	0.13	0.00	0.01	0.00	0.14	0.00	0.03	0.00	0.00	0.00	---	---
8	0.12	0.00	0.52	0.14	0.06	0.00	0.00	0.00	0.00	0.00	---	---
9	0.00	0.00	0.02	0.03	0.05	0.00	0.00	0.01	0.00	0.00	---	---
10	0.00	0.02	0.01	0.10	0.06	0.00	0.08	0.01	0.00	0.00	---	---
11	0.00	0.00	0.01	0.00	0.27	0.08	0.00	0.01	0.01	0.00	---	---
12	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.02	0.01	0.00	---	---
13	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.03	0.00	---	---
14	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---
15	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	---	---	---
16	0.17	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.00	---	---	---
17	0.02	0.00	0.01	0.01	0.33	0.00	0.00	0.28	0.00	---	---	---
18	0.02	0.00	0.01	0.00	0.05	0.00	0.00	0.03	0.00	---	---	---
19	0.09	0.00	0.00	0.00	0.01	0.00	0.00	0.15	0.00	---	---	---
20	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.51	0.00	---	---	---
21	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	---	---	---
22	0.00	0.07	0.01	0.00	0.05	0.00	0.00	0.00	0.00	---	---	---
23	0.00	0.01	0.00	0.00	0.12	0.00	0.21	0.00	0.01	---	---	---
24	0.00	0.01	0.00	0.00	0.00	0.00	0.04	0.00	0.00	---	---	---
25	0.00	0.00	0.00	0.00	0.01	0.00	0.30	0.00	0.00	---	---	---
26	0.00	0.00	0.00	0.01	0.00	0.00	0.13	0.00	0.00	---	---	---
27	0.00	0.01	0.00	0.00	0.03	0.00	0.24	0.43	0.00	---	---	---
28	0.01	0.00	0.01	0.00	0.03	0.00	0.18	0.00	0.00	---	---	---
29	0.00	0.01	0.00	0.00	---	0.00	0.08	0.00	0.01	---	---	---
30	0.00	0.02	0.00	0.02	---	0.00	0.00	0.00	0.00	---	---	---
31	0.00	---	0.00	0.02	---	0.01	---	0.42	---	---	---	---
TOTAL	0.70	0.15	0.82	0.75	1.33	0.10	1.58	1.94	0.13	0.04	0.00	0.00
MEAN	0.02	0.00	0.03	0.02	0.05	0.00	0.05	0.06	0.00	0.00	0.00	0.00
MAX	0.17	0.07	0.52	0.28	0.33	0.08	0.30	0.51	0.06	0.03	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.00	0.00

WTR YR 1994 TOTAL 7.54 MEAN 0.03 MAX 0.52 MIN -0.01

PICABO

PU PU WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.66	0.87	1.63	2.35	3.63	3.74	5.29	7.29	7.35	---	---
2	0.00	0.66	0.90	1.64	2.35	3.63	3.74	5.29	7.29	7.35	---	---
3	0.00	0.66	0.90	1.65	2.35	3.63	3.85	5.29	7.29	7.35	---	---
4	0.01	0.66	0.99	1.93	2.35	3.63	3.85	5.29	7.29	7.35	---	---
5	0.02	0.66	0.99	1.99	2.35	3.63	3.84	5.29	7.29	7.38	---	---
6	0.02	0.66	0.99	1.99	2.35	3.63	3.99	5.29	7.29	7.39	---	---
7	0.16	0.66	1.00	1.99	2.49	3.63	4.03	5.29	7.29	7.39	---	---
8	0.27	0.66	1.52	2.13	2.55	3.63	4.03	5.29	7.29	7.39	---	---
9	0.27	0.65	1.53	2.16	2.60	3.63	4.03	5.29	7.29	7.39	---	---
10	0.26	0.67	1.54	2.27	2.67	3.63	4.11	5.30	7.29	7.39	---	---
11	0.26	0.67	1.55	2.27	2.94	3.71	4.10	5.31	7.29	7.39	---	---
12	0.26	0.67	1.55	2.27	2.94	3.71	4.11	5.34	7.30	7.39	---	---
13	0.28	0.67	1.55	2.27	2.95	3.71	4.11	5.35	7.33	7.39	---	---
14	0.28	0.67	1.55	2.27	2.95	3.71	4.11	5.35	7.33	---	---	---
15	0.37	0.67	1.55	2.27	2.95	3.71	4.11	5.39	7.33	---	---	---
16	0.53	0.67	1.55	2.27	2.96	3.71	4.11	5.41	7.33	---	---	---
17	0.56	0.67	1.56	2.27	3.28	3.71	4.11	5.70	7.33	---	---	---
18	0.58	0.67	1.57	2.27	3.33	3.71	4.11	5.73	7.33	---	---	---
19	0.66	0.67	1.57	2.27	3.34	3.71	4.11	5.87	7.33	---	---	---
20	0.66	0.67	1.57	2.27	3.36	3.71	4.11	6.38	7.33	---	---	---
21	0.66	0.67	1.57	2.27	3.38	3.71	4.11	6.38	7.33	---	---	---
22	0.66	0.74	1.58	2.27	3.43	3.71	4.11	6.38	7.33	---	---	---
23	0.66	0.75	1.58	2.27	3.56	3.71	4.32	6.38	7.34	---	---	---
24	0.66	0.76	1.57	2.27	3.56	3.71	4.36	6.38	7.34	---	---	---
25	0.66	0.76	1.57	2.27	3.56	3.71	4.66	6.38	7.34	---	---	---
26	0.66	0.76	1.57	2.28	3.56	3.71	4.79	6.38	7.34	---	---	---
27	0.66	0.77	1.57	2.27	3.60	3.71	5.03	6.81	7.34	---	---	---
28	0.67	0.77	1.58	2.27	3.63	3.71	5.21	6.81	7.34	---	---	---
29	0.66	0.78	1.58	2.27	---	3.71	5.29	6.81	7.35	---	---	---
30	0.66	0.80	1.58	2.29	---	3.71	5.29	6.81	7.35	---	---	---
31	0.66	---	1.58	2.31	---	3.72	---	7.23	---	---	---	---
TOTAL	12.72	20.86	44.13	67.12	.69 1	.22 1	.47 1	.49 2	19.53	95.90	0.00	0.00
MEAN	0.41	0.70	1.42	2.17	2.99	3.68	4.25	5.85	7.32	7.38	0.00	0.00
MAX	0.67	0.80	1.58	2.31	3.63	3.72	5.29	7.23	7.35	7.39	0.00	0.00
MIN	0.00	0.65	0.87	1.63	2.35	3.63	3.74	5.29	7.29	7.35	0.00	0.00

WTR YR 1994 TOTAL 967.13 MEAN 3.38 MAX 7.39 MIN 0.00

PICABO

SP SP WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

LAST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.50	1.40	1.40	0.00	0.00	0.00	-0.05	---	---
2	0.00	0.00	0.00	0.50	1.40	0.80	0.00	0.00	0.00	-0.07	---	---
3	0.00	0.00	0.00	0.60	1.40	0.30	0.00	0.00	0.00	-0.07	---	---
4	0.00	0.00	0.10	0.80	1.40	0.00	0.00	0.00	0.00	-0.09	---	---
5	0.00	0.00	0.10	0.90	1.40	0.00	0.00	0.00	0.00	0.00	---	---
6	0.00	0.00	0.10	0.90	1.40	0.00	0.00	0.00	0.00	-0.05	---	---
7	0.00	0.00	0.10	0.90	1.60	0.00	0.00	0.00	0.00	-0.06	---	---
8	0.00	0.00	0.40	1.10	1.60	0.00	0.00	0.00	0.00	-0.04	---	---
9	0.00	0.00	0.40	1.10	1.60	0.00	0.00	0.00	0.00	-0.07	---	---
10	0.00	0.00	0.40	1.10	1.80	0.00	0.00	0.00	0.00	-0.07	---	---
11	0.00	0.00	0.40	1.10	2.00	0.00	0.00	0.00	0.00	-0.06	---	---
12	0.00	0.00	0.40	1.10	2.00	0.00	0.00	0.00	0.00	-0.06	---	---
13	0.00	0.00	0.40	1.10	2.00	0.00	0.00	0.00	0.00	-0.07	---	---
14	0.00	0.00	0.40	1.10	2.00	0.00	0.00	0.00	0.00	---	---	---
15	0.00	0.00	0.40	1.20	2.10	0.00	0.00	0.00	0.00	---	---	---
16	0.00	0.00	0.40	1.20	2.20	0.00	0.00	0.00	0.00	---	---	---
17	0.00	0.00	0.40	1.20	2.50	0.00	0.00	0.00	0.00	---	---	---
18	0.00	0.00	0.40	1.20	2.50	0.00	0.00	0.00	0.01	---	---	---
19	0.00	0.00	0.40	1.20	2.50	0.00	0.00	0.00	0.05	---	---	---
20	0.00	0.00	0.40	1.20	2.50	0.00	0.00	0.00	0.10	---	---	---
21	0.00	0.00	0.40	1.20	2.60	0.00	0.00	0.00	0.04	---	---	---
22	0.00	0.00	0.40	1.20	2.70	0.00	0.00	0.00	0.06	---	---	---
23	0.00	0.00	0.40	1.20	2.70	0.00	0.00	0.00	0.00	---	---	---
24	0.00	0.00	0.40	1.20	2.70	0.00	0.00	0.00	0.01	---	---	---
25	0.00	0.00	0.40	1.20	2.40	0.00	0.00	0.00	0.00	---	---	---
26	0.00	0.00	0.40	1.20	2.20	0.00	0.00	0.00	-0.07	---	---	---
27	0.00	0.00	0.40	1.20	2.00	0.00	0.00	0.00	-0.02	---	---	---
28	0.00	0.00	0.40	1.20	1.80	0.00	0.00	0.00	0.00	---	---	---
29	0.00	0.00	0.40	1.20	---	0.00	0.00	0.00	-0.04	---	---	---
30	0.00	0.00	0.40	1.30	---	0.00	0.00	0.00	-0.01	---	---	---
31	0.00	---	0.40	1.40	---	0.00	---	0.00	---	---	---	---
TOTAL	0.00	0.00	10.00	33.50	56.40	2.50	0.00	0.00	0.13	-0.76	0.00	0.00
MEAN	0.00	0.00	0.32	1.08	2.01	0.08	0.00	0.00	0.00	-0.06	0.00	0.00
MAX	0.00	0.00	0.40	1.40	2.70	1.40	0.00	0.00	0.10	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.50	1.40	0.00	0.00	0.00	-0.07	-0.09	0.00	0.00

WTR YR 1994 TOTAL 101.77 MEAN 0.36 MAX 2.70 MIN -0.09

				PICABO								
	SR	SR	WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994									
			SRAD VALUES									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.00	62.35	88.61	73.41	2.00	54.87	4.00	50.32	6.00	4.53	---	---
2	3.00	89.35	-1.00	42.47	2.00	55.74	4.00	73.45	6.00	79.86	---	---
3	3.00	9.36	1.00	69.83	2.00	49.66	1.00	13.32	5.00	78.47	---	---
4	3.00	25.00	1.00	92.08	2.00	30.97	3.00	98.84	6.00	1.93	---	---
5	2.00	17.17	1.00	54.18	2.00	98.94	3.00	34.35	-3.00	35.31	---	---
6	3.00	54.53	1.00	85.91	2.00	86.15	2.00	26.35	4.00	59.89	---	---
7	2.00	47.59	1.00	39.00	94.69	3.00	69.11	5.00	29.92	6.00	---	---
8	1.00	12.38	59.07	48.21	1.00	93.53	5.00	61.61	6.00	84.54	---	---
9	2.00	1.54	1.00	93.82	1.00	6.11	3.00	39.04	6.00	26.78	---	---
10	2.00	5.45	1.00	78.52	98.60	1.00	28.81	5.00	1.49	6.00	---	---
11	1.00	18.49	77.32	1.00	51.49	3.00	49.02	6.00	31.98	7.00	---	---
12	3.00	21.96	1.00	49.85	2.00	20.46	5.00	66.07	5.00	2.36	---	---
13	2.00	44.64	1.00	75.92	2.00	10.47	4.00	45.02	3.00	86.27	---	---
14	2.00	20.65	1.00	0.67	3.00	27.40	5.00	46.42	7.00	---	---	---
15	1.00	12.84	1.00	72.01	2.00	64.86	5.00	29.23	7.00	---	---	---
16	1.00	8.92	59.51	1.00	88.85	2.00	38.17	2.00	20.69	---	---	---
17	2.00	82.44	96.43	1.00	95.12	4.00	7.77	4.00	20.17	---	---	---
18	2.00	9.80	1.00	96.77	2.00	26.74	4.00	23.84	7.00	---	---	---
19	2.00	6.32	1.00	14.57	2.00	42.26	5.00	30.97	7.00	---	---	---
20	3.00	98.07	63.42	2.00	7.62	4.00	68.58	-6.00	29.39	---	---	---
21	2.00	67.66	58.20	2.00	35.42	3.00	73.44	5.00	63.80	---	---	---
22	2.00	53.00	39.95	2.00	49.23	1.00	11.34	6.00	52.39	---	---	---
23	3.00	-1.00	72.88	1.00	63.22	4.00	75.05	6.00	14.09	---	---	---
24	2.00	52.46	1.00	88.08	3.00	44.34	3.00	80.21	7.00	---	---	---
25	2.00	3.90	1.00	0.66	3.00	87.35	2.00	88.01	7.00	---	---	---
26	2.00	0.24	1.00	66.46	1.00	77.80	1.00	12.45	7.00	---	---	---
27	1.00	82.44	91.65	1.00	63.32	4.00	40.20	2.00	79.76	---	---	---
28	2.00	82.09	1.00	34.55	2.00	99.50	2.00	25.58	6.00	---	---	---
29	2.00	98.17	1.00	12.06	-5.00	13.41	6.00	59.44	6.00	---	---	---
30	2.00	2.07	1.00	11.53	-4.00	90.39	4.00	91.50	6.00	---	---	---
31	1.00	-1.00	46.81	2.00	-2.00	88.85	-1.00	29.87	---		---	---
TOTAL	81.00	90.88	36.00	0.19	65.00	57.30	1.00	58.84	1.00	20.54	0.00	0.00
MEAN	2.00	89.34		64.52		76.04		11.96		40.04	0.00	0.00
MAX	3.00	62.35		34.55		13.41		91.50		4.53	0.00	0.00
MIN	1.00	53.00	39.95	48.21	94.69	1.00	45.94	1.00	96.57	3.00	0.00	0.00
WTR YR 1994 TOTAL			95397.48 MEAN			338.29 MAX		722.76 MIN		39.95		

				PICABO								
	SR2	SR2	WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994									
				SRAD VALUES								
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71.01	23.68	83.67	62.85	80.40	65.30		17.53		58.77	---	---
2	29.39	59.18	---	74.69	31.83	60.40	1.00	63.24	1.00	97.13	---	---
3	30.61	64.08		41.22	53.47	71.42	1.00	46.51	1.00	26.52	---	---
4	37.55	68.98	76.32	80.81	37.14	82.85	2.00	46.51	82.44	1.00	---	---
5	89.79	36.64	67.34	41.63	35.51	1.00	4.47	2.00	-1.00	95.90	---	---
6	96.32	35.51	90.07	26.12	72.65	45.71	1.00	57.11	2.00	66.92	---	---
7	1.00	36.73	90.60	1.00	84.89	51.02	1.00	15.49	1.00	61.63	---	---
8	1.00	65.29	44.08	28.16	71.01	41.63	1.00	48.15	99.58	60.00	---	---
9	1.00	3.26	89.79	44.08	1.00	33.06	2.00	85.30	89.79	1.00	---	---
10	0.00	72.24	72.24	87.34	72.65	1.00	34.67	1.00	62.04	1.00	---	---
11	0.00	48.98	17.00	2.44	82.44	1.00	87.75	62.04	1.00	53.47	---	---
12	---	37.55	23.67	97.95	61.63	38.77	1.00	70.19	2.00	55.51	---	---
13	0.00	84.89	46.12	57.55	1.00	59.59	2.00	21.21	2.00	57.14	---	---
14	95.50	21.84	96.73	33.47	1.00	52.24	1.00	15.90	67.34	---	---	---
15	82.44	44.90	72.24	63.26	1.00	8.97	1.00	8.15	88.56	---	---	---
16		81.30	53.47	46.93	1.00	64.88	1.00	8.96	1.00	---	---	---
17		64.89	78.77	49.79	93.87	52.24	1.00	39.98	61.63	---	---	---
18		25.31	65.30	72.65	1.00	88.15	1.00	68.15	63.26	---	---	---
19	71.83	15.92	37.14	26.12	2.00	14.28	1.00	5.29	64.48	---	---	---
20	42.85	17.15	59.18	22.45	1.00	83.67	1.00	95.09	1.00	---	---	---
21		39.59	53.47	63.26	2.00	91.41	1.00	77.54	1.00	---	---	---
22	32.25	61.62	39.18	28.98	2.00	38.76	1.00	93.46	1.00	---	---	---
23	28.58	80.81	30.61	48.16	2.00	81.22	1.00	6.93	62.04	---	---	---
24	73.87		68.16	75.50	1.00	22.03	2.00	10.20	93.46	---	---	---
25	33.87	39.59	32.24	82.03	1.00	53.46	2.00	19.58	60.00	---	---	---
26	38.36	39.18	93.05	62.04	1.00	78.77	1.00	61.21	61.22	---	---	---
27		6.51	85.71	1.00	42.44	1.00	35.49	2.00	41.62	---	---	---
28	84.08	85.30	24.90	39.18	1.00	44.48	1.00	77.54	72.65	---	---	---
29	17.55	95.52	61.22	95.50	---	41.22	1.00	36.31	66.93	---	---	---
30	32.24	69.38	88.16	91.01	---	67.75	2.00	56.32	62.85	---	---	---
31		---	54.69	1.00	-1.00	66.92	-1.00	11.01	---	---	---	---
TOTAL	24.00	56.00	27.36	19.00	73.57	29.00	96.71	55.00	34.80	13.00	0.00	0.00
MEAN		1.00	20.91	64.30	1.00	94.79	1.00	78.33	1.00	5.27	0.00	0.00
MAX	1.00	39.00	40.67	1.00	47.73	1.00	74.26	3.00	94.26	1.00	0.00	0.00
MIN	17.55	15.92	23.67	22.45	31.83	33.06	87.75	56.32	60.00	53.47	0.00	0.00
		WTR YR 1994 TOTAL			35768.58 MEAN		126.39 MAX		3981.30 MIN		15.92	

PICABO

TA TA WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.02	52.21	85.23	84.69	64.06	74.86	66.65	57.67	66.12	26.53	---	---
2	39.55	38.04	76.74	75.11	67.34	73.33	55.28	46.82	47.13	35.05	---	---
3	37.03	37.93	74.90	85.15	66.25	66.97	62.80	42.75	49.29	27.50	---	---
4	32.09	52.80	77.32	87.20	64.33	62.13	55.33	52.19	42.38	29.11	---	---
5	38.24	56.18	62.57	78.00	56.94	66.06	59.80	60.32	31.90	40.00	---	---
6	58.03	53.93	66.69	70.80	56.34	69.88	75.82	44.91	35.42	49.17	---	---
7	68.21	50.75	74.81	68.78	92.28	59.20	62.45	42.78	41.38	45.79	---	---
8	82.33	49.48	90.72	88.36	87.33	60.26	45.12	51.83	42.12	37.72	---	---
9	71.60	43.19	72.75	85.38	83.61	54.66	51.84	47.32	35.83	31.59	---	---
10	64.24	31.64	75.61	78.20	87.93	70.91	63.49	41.14	37.38	26.23	---	---
11	66.42	31.14	56.17	80.43	73.48	63.18	49.61	36.42	41.83	24.99	---	---
12	72.70	49.85	65.12	78.67	66.25	45.31	44.01	52.50	48.06	25.01	---	---
13	74.42	74.26	61.29	83.87	67.31	42.69	30.02	40.28	44.80	25.82	---	---
14	72.47	52.94	56.54	83.23	67.90	32.65	32.66	34.77	41.89	---	---	---
15	82.99	53.67	70.50	71.41	62.41	33.20	37.08	31.33	33.73	---	---	---
16	82.71	40.45	90.47	72.54	48.34	41.58	31.68	56.24	39.24	---	---	---
17	76.27	42.54	79.08	70.72	72.64	48.67	28.01	78.85	30.76	---	---	---
18	69.26	38.89	70.02	57.48	87.87	48.49	27.63	59.54	27.16	---	---	---
19	65.76	45.43	73.71	59.04	72.14	45.18	35.37	66.18	24.46	---	---	---
20	62.59	46.53	84.56	67.42	82.68	38.31	36.81	79.20	24.60	---	---	---
21	57.26	41.92	84.98	60.51	82.12	46.43	30.56	59.92	33.48	---	---	---
22	50.60	67.18	84.85	57.62	68.40	65.92	56.49	49.71	40.59	---	---	---
23	43.89	80.98	78.84	58.80	74.24	45.85	65.21	35.38	32.57	---	---	---
24	46.30	79.41	81.61	77.85	79.52	42.26	77.11	37.59	24.07	---	---	---
25	37.11	69.83	74.97	71.48	80.77	39.48	85.24	37.72	22.27	---	---	---
26	45.02	70.79	75.46	94.83	87.49	39.08	86.81	38.54	25.21	---	---	---
27	49.21	67.69	79.23	84.52	89.10	49.07	86.67	65.03	29.90	---	---	---
28	36.83	57.36	78.33	68.55	74.71	39.85	80.83	56.22	27.05	---	---	---
29	56.10	85.15	79.62	84.52	---	38.70	53.30	54.15	26.28	---	---	---
30	46.75	85.29	71.57	71.65	---	27.46	60.17	39.55	26.75	---	---	---
31	41.45	---	78.40	56.19	---	47.24	---	73.65	---	---	---	---
TOTAL		47.45	23.00	13.00	20.00	78.86	16.00	70.50	10.00	24.51	0.00	0.00
MEAN	56.69	54.92	75.25	74.61	73.71	50.93	54.46	50.66	35.79	32.65	0.00	0.00
MAX	82.99	85.29	90.72	94.83	92.28	74.86	86.81	79.20	66.12	49.17	0.00	0.00
MIN	30.02	31.14	56.17	56.19	48.34	27.46	27.63	31.33	22.27	24.99	0.00	0.00

WTR YR 1994 TOTAL 16395.71 MEAN 57.33 MAX 94.83 MIN 22.27

PICABO

TG TG WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.47	0.00	0.00	0.00	0.00	1.09	5.14	4.46	7.22	19.11	0.00	0.00
2	14.06	0.46	0.00	0.00	0.00	4.07	7.34	6.84	13.18	14.43	0.00	0.00
3	15.85	2.92	0.00	0.00	0.00	2.29	0.12	7.91	16.74	13.09	0.00	0.00
4	17.42	0.00	0.00	0.00	0.00	0.95	0.86	8.60	10.79	14.96	0.00	0.00
5	16.48	0.00	0.00	0.00	0.00	0.00	0.48	10.76	18.00	12.24	0.00	0.00
6	10.95	0.00	0.00	0.00	0.00	0.00	0.40	14.39	9.53	10.92	0.00	0.00
7	4.22	0.00	0.00	0.00	0.00	0.00	0.00	11.56	5.28	16.18	0.00	0.00
8	-2.55	0.00	0.00	0.00	0.00	0.00	0.84	11.39	7.64	18.00	0.00	0.00
9	0.92	0.00	0.00	0.00	0.00	1.77	0.17	15.15	11.99	19.05	0.00	0.00
10	3.97	2.37	0.00	0.00	0.00	0.00	4.14	15.85	15.53	20.70	0.00	0.00
11	5.96	1.83	0.00	0.00	0.00	0.84	6.05	17.49	18.00	18.00	0.00	0.00
12	5.87	0.00	0.00	0.00	0.00	1.58	7.81	15.18	16.61	18.00	0.00	0.00
13	6.44	0.00	0.00	0.00	0.00	5.41	2.09	10.68	12.90	18.00	0.00	0.00
14	5.17	0.00	0.00	0.00	0.00	7.61	3.76	11.99	4.22	0.00	0.00	0.00
15	1.75	0.00	0.00	0.00	0.00	8.93	8.83	8.68	7.88	0.00	0.00	0.00
16	2.19	0.00	0.00	0.00	0.00	5.39	13.69	1.52	7.86	0.00	0.00	0.00
17	2.70	0.00	0.00	0.00	0.00	0.00	15.63	1.73	14.49	0.00	0.00	0.00
18	1.65	0.00	0.00	0.00	0.00	2.37	16.51	7.47	16.25	0.00	0.00	0.00
19	4.59	0.00	0.00	0.00	---	0.00	16.45	1.97	18.00	0.00	0.00	0.00
20	3.61	0.00	0.00	0.00	---	0.00	16.28	4.12	19.67	0.00	0.00	0.00
21	4.33	0.00	0.00	0.00	---	1.07	16.08	8.20	18.90	0.00	0.00	0.00
22	8.45	0.00	0.00	0.00	---	0.00	6.65	10.32	18.40	0.00	0.00	0.00
23	9.66	0.00	0.00	0.00	---	0.00	3.84	13.78	18.95	0.00	0.00	0.00
24	7.13	0.00	0.00	0.00	0.00	0.00	2.09	14.61	18.00	0.00	0.00	0.00
25	4.57	0.00	0.00	0.00	0.00	2.35	0.00	16.74	18.80	0.00	0.00	0.00
26	3.15	0.00	0.00	0.00	0.00	2.70	0.00	17.45	13.07	0.00	0.00	0.00
27	0.44	0.00	0.00	0.00	0.00	1.79	0.00	9.22	17.01	0.00	0.00	0.00
28	4.46	0.00	0.00	0.00	0.00	8.30	0.00	10.38	18.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	4.25	3.29	11.82	20.98	0.00	0.00	0.00
30	1.09	0.00	0.00	0.00	---	7.06	4.66	13.87	19.07	0.00	0.00	0.00
31	1.63	---	0.00	0.00	---	4.40	---	7.82	---	0.00	0.00	---
TOTAL	1.00	7.58	0.00	0.00	0.00	74.22	1.00	21.95	4.00	12.68	0.00	0.00
MEAN	5.86	0.25	0.00	0.00	0.00	2.39	5.44	10.39	14.43	6.86	0.00	0.00
MAX	17.42	2.92	0.00	0.00	0.00	8.93	16.51	17.49	20.98	20.70	0.00	0.00
MIN	-2.55	0.00	0.00	0.00	0.00	0.00	0.00	1.52	4.22	0.00	0.00	0.00

WTR YR 1994 TOTAL 1394.22 MEAN 3.87 MAX 20.98 MIN -2.55

PICABO

UA UA WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.99	2.73	3.51	3.24	1.96	1.98	3.41	5.47	5.19	3.99	---	---
2	2.09	2.18	---	1.66	1.99	2.20	2.82	4.37	2.89	5.65	---	---
3	2.80	5.72	1.53	1.66	1.65	2.42	4.41	2.97	3.05	5.30	---	---
4	2.68	2.78	6.68	1.60	2.17	3.70	4.31	2.53	4.98	3.81	---	---
5	3.94	2.58	1.98	7.59	2.03	1.92	3.15	2.20	3.72	4.77	---	---
6	3.78	2.57	2.56	3.53	2.02	2.60	4.08	5.18	6.69	3.80	---	---
7	4.15	2.51	1.74	1.54	0.73	2.26	6.25	3.98	5.22	2.88	---	---
8	3.88	2.29	1.51	0.91	0.79	2.49	3.23	4.68	6.23	2.34	---	---
9	1.92	2.52	2.44	1.75	1.79	2.53	3.80	3.35	3.29	3.15	---	---
10	2.23	2.44	1.98	1.10	1.73	2.50	3.99	3.81	3.31	5.02	---	---
11	2.55	2.53	4.22	1.36	2.98	3.07	3.80	3.42	3.02	3.59	---	---
12	2.68	2.20	6.87	2.09	1.93	3.33	4.67	4.72	3.75	4.00	---	---
13	2.26	1.95	3.57	1.36	2.06	2.54	7.04	5.68	6.15	2.94	---	---
14	2.81	3.19	2.47	0.89	1.94	3.16	7.27	2.90	8.35	---	---	---
15	2.03	1.64	1.39	3.61	2.29	3.38	3.01	6.51	4.99	---	---	---
16	1.73	2.15	0.95	1.82	4.51	3.67	3.15	3.19	4.90	---	---	---
17	2.68	2.28	1.23	2.73	5.76	5.93	3.66	5.92	2.71	---	---	---
18	2.97	5.07	2.68	1.77	4.37	4.11	3.99	4.12	3.92	---	---	---
19	2.90	2.03	1.72	1.44	1.91	7.01	3.72	5.76	2.66	---	---	---
20	1.86	2.02	1.14	1.56	5.79	2.88	3.14	---	3.44	---	---	---
21	2.42	1.91	1.45	2.26	1.88	3.94	4.49	2.41	3.40	---	---	---
22	2.37	3.00	1.69	2.45	5.14	4.59	4.12	3.57	4.08	---	---	---
23	2.69	3.09	1.50	2.95	2.78	5.27	3.60	3.16	4.05	---	---	---
24	3.77	1.78	1.25	3.19	12.50	3.30	3.10	2.53	4.05	---	---	---
25	2.30	1.72	1.27	2.96	2.36	2.81	3.50	2.36	3.39	---	---	---
26	2.17	1.42	1.09	0.89	1.38	3.89	3.24	3.37	8.33	---	---	---
27	1.74	2.28	1.12	1.14	1.85	3.48	1.69	4.94	3.12	---	---	---
28	4.07	2.57	1.44	2.19	1.62	5.54	2.21	3.77	2.75	---	---	---
29	1.55	1.21	1.28	1.36	---	3.69	3.01	4.11	4.64	---	---	---
30	2.22	2.83	2.83	1.72	---	3.66	4.61	4.44	3.78	---	---	---
31	3.56	---	2.24	2.18	---	3.05	---	3.68	---	---	---	---
TOTAL	84.79	75.19	67.33	66.50	79.91	1.00	16.47	1.00	30.05	51.24	0.00	0.00
MEAN	2.74	2.51	2.24	2.15	2.85	3.45	3.88	3.97	4.34	3.94	0.00	0.00
MAX	4.15	5.72	6.87	7.59	12.50	7.01	7.27	6.51	8.35	5.65	0.00	0.00
MIN	1.55	1.21	0.95	0.89	0.73	1.92	1.69	2.20	2.66	2.34	0.00	0.00

WTR YR 1994 TOTAL 897.48 MEAN 3.16 MAX 12.50 MIN 0.73

PICABO

UD UD WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WDIR VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.00	93.40	2.00	37.85	2.00	23.35	2.00	5.63	2.00	63.78	---	---
2	1.00	45.36	2.00	85.82	2.00	17.37	1.00	30.42	1.00	86.02	---	---
3	2.00	50.95	1.00	23.67	2.00	5.57	2.00	32.56	2.00	82.19	---	---
4	1.00	48.60	2.00	46.96	2.00	43.61	2.00	80.80	2.00	78.81	---	---
5	1.00	77.88	1.00	42.96	1.00	68.68	2.00	71.77	1.00	72.95	---	---
6	1.00	1.39	2.00	45.08	2.00	29.88	2.00	22.00	2.00	49.51	---	---
7	2.00	88.06	62.91	2.00	77.91	1.00	37.76	1.00	70.49	1.00	---	---
8	1.00	43.24	2.00	94.37	1.00	57.57	1.00	0.35	2.00	55.35	---	---
9	1.00	36.34	2.00	31.92	2.00	1.57	2.00	36.09	2.00	38.88	---	---
10	1.00	78.77	1.00	97.00	2.00	48.08	2.00	85.75	2.00	71.15	2.00	---
11	1.00	96.58	91.96	2.00	95.93	2.00	9.24	1.00	85.49	2.00	---	---
12	1.00	78.61	2.00	27.48	1.00	60.57	2.00	23.03	2.00	58.00	---	---
13	1.00	87.83	85.40	89.54	1.00	24.74	2.00	38.01	2.00	55.91	---	---
14	2.00	89.46	1.00	63.48	1.00	59.90	2.00	9.20	2.00	---	---	---
15	1.00	79.12	2.00	26.04	1.00	78.44	1.00	33.44	2.00	---	---	---
16	1.00	56.43	2.00	0.46	86.64	2.00	76.95	1.00	81.35	---	---	---
17	1.00	80.74	2.00	23.20	88.59	2.00	97.03	2.00	86.06	---	---	---
18	2.00	50.00	2.00	73.39	2.00	18.94	1.00	58.23	2.00	---	---	---
19	2.00	82.90	2.00	39.18	2.00	35.48	1.00	71.45	2.00	---	---	---
20	1.00	89.30	3.00	21.89	85.61	2.00	80.73	2.00	26.04	---	---	---
21	1.00	57.05	2.00	85.04	3.00	57.16	1.00	74.66	1.00	---	---	---
22	1.00	38.99	2.00	76.19	2.00	45.24	2.00	68.83	1.00	---	---	---
23	2.00	34.84	1.00	54.34	2.00	39.34	1.00	67.10	2.00	---	---	---
24	2.00	97.16	2.00	94.49	2.00	1.06	1.00	91.43	2.00	---	---	---
25	1.00	4.51	2.00	23.98	3.00	16.58	2.00	33.96	2.00	---	---	---
26	2.00	6.23	1.00	74.13	2.00	51.28	1.00	26.57	2.00	---	---	---
27	1.00	10.68	34.54	2.00	41.31	2.00	58.04	2.00	25.21	---	---	---
28	1.00	91.60	90.10	2.00	19.55	2.00	12.80	2.00	68.92	2.00	---	---
29	1.00	12.52	2.00	97.12	---		15.97	2.00	79.29	---	---	---
30	1.00	25.23	1.00	84.76	-1.00	0.93	1.00	67.93	1.00	---	---	---
31	2.00	-2.00	39.51	2.00	-1.00	96.47	-2.00	17.80	---		---	---
TOTAL	53.00	1.47	61.00	90.96	54.00	45.39	60.00	30.37	72.00	7.48	0.00	0.00
MEAN	1.00	83.38	1.00	96.48	1.00	7.92	2.00	17.11	2.00	54.42	0.00	0.00
MAX	2.00	43.24	3.00	74.13	3.00	68.68	2.00	91.43	2.00	86.02	0.00	0.00
MIN	78.77	87.83	34.54	89.54	48.08	89.47	1.00	71.45	1.00	13.06	0.00	0.00

WTR YR 1994 TOTAL 58414.82 MEAN 204.25 MAX 344.75 MIN 34.54

PICABO

WR WR WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

WRUN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95.87	65.49	84.16	77.69	47.06	47.56	81.92	1.00	24.50	95.87	---	---
2	50.05	52.29	---	39.84	47.81	52.79	67.73	1.00	69.47	1.00	---	---
3	67.23	1.00	36.60	39.84	39.59	58.02	1.00	71.21	73.21	1.00	---	---
4	64.24	66.73	1.00	38.35	52.04	88.89	1.00	60.76	1.00	91.38	---	---
5	94.62	62.00	47.56	1.00	48.80	46.06	75.70	52.79	89.39	1.00	---	---
6	90.64	61.75	61.51	84.66	48.56	62.50	97.86	1.00	60.61	91.13	---	---
7	99.60	60.26	41.83	36.85	17.43	54.28	1.00	95.62	1.00	69.22	---	---
8	93.13	55.06	36.35	21.91	18.92	59.76	77.44	1.00	49.40	56.27	---	---
9	46.06	60.51	58.52	42.08	43.08	60.76	91.13	80.43	78.93	75.70	---	---
10	53.54	58.52	47.56	26.39	41.58	60.01	95.87	91.38	79.43	1.00	---	---
11	61.25	60.76	1.00	32.62	71.46	73.70	91.13	82.17	72.46	86.15	---	---
12	64.24	52.79	1.00	50.05	46.31	79.93	1.00	13.29	89.89	96.11	---	---
13	54.28	46.81	85.66	32.62	49.55	61.00	1.00	36.20	1.00	70.47	---	---
14	67.48	76.44	59.26	21.41	46.56	75.94	1.00	69.72	2.00	---	---	---
15	48.80	39.34	33.37	86.65	55.03	81.17	72.21	1.00	19.77	---	---	---
16	41.58	51.54	22.91	43.57	1.00	88.15	75.70	76.44	1.00	---	---	---
17	64.24	54.78	29.63	65.49	1.00	1.00	87.90	1.00	64.99	---	---	---
18	71.21	1.00	64.24	42.58	1.00	98.60	95.87	98.85	94.12	---	---	---
19	69.72	48.80	41.33	34.61	45.82	1.00	89.39	1.00	63.74	---	---	---
20	44.57	48.55	27.39	37.35	1.00	69.22	75.45	---		---	---	---
21	58.02	45.82	34.86	54.28	45.07	94.62	1.00	57.77	81.67	---	---	---
22	56.77	71.96	40.59	58.76	1.00	1.00	98.85	85.66	97.86	---	---	---
23	64.49	74.20	36.10	70.72	66.73	1.00	86.40	75.94	97.11	---	---	---
24	90.39	42.83	29.88	76.44	3.00	79.18	74.45	60.76	97.11	---	---	---
25	55.28	41.33	30.38	70.97	56.52	67.48	83.91	56.52	81.42	---	---	---
26	52.04	34.11	26.15	21.41	33.12	93.38	77.69	80.92	1.00	---	---	---
27	41.83	54.78	26.89	27.39	44.32	83.42	40.59	1.00	74.95	---	---	---
28	97.61	61.75	34.61	52.54	38.84	1.00	53.04	90.39	65.99	---	---	---
29	37.10	29.13	30.63	32.62	---		72.21	98.60	1.00	---	---	---
30	53.29	67.98	67.98	41.33	---		10.56	1.00	90.67	---	---	---
31	85.41	---	53.78	52.29	---		---		---		---	---
TOTAL	20.00	5.27	16.00	95.58	19.00	25.00	95.54	28.00	21.02	12.00	0.00	0.00
MEAN	65.63	60.18	53.88	51.47	68.49	82.79	93.18	95.27	1.00	94.64	0.00	0.00
MAX	99.60	1.00	64.84	1.00	0.04	1.00	74.55	1.00	0.45	1.00	0.00	0.00
MIN	37.10	29.13	22.91	21.41	17.43	46.06	40.59	52.79	63.74	56.27	0.00	0.00

WTR YR 1994 TOTAL 21540.79 MEAN 75.85 MAX 300.04 MIN 17.43

PICABO

XC XC WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

MIN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55.00	41.40	34.71	27.56	25.67	33.85	41.40	50.20	55.78	65.61	---	---
2	55.00	40.61	35.18	28.50	24.41	34.08	42.26	49.57	54.37	66.00	---	---
3	55.00	41.55	34.71	29.76	23.63	34.48	44.15	49.41	56.25	64.35	---	---
4	55.15	41.16	34.95	31.10	23.31	34.95	41.79	51.46	56.65	63.09	---	---
5	55.78	39.82	33.69	32.35	23.55	35.34	41.16	52.72	56.49	64.35	---	---
6	56.96	38.01	33.06	31.73	23.71	35.50	42.89	53.03	58.77	61.84	---	---
7	56.49	36.84	33.06	28.50	26.85	35.50	42.10	53.97	55.15	62.94	---	---
8	53.66	36.44	34.40	28.42	29.29	35.73	40.77	54.29	54.60	64.12	---	---
9	51.38	35.81	35.26	29.84	29.29	35.89	42.97	54.92	55.86	65.30	---	---
10	50.44	37.39	35.73	29.76	29.45	36.21	44.38	55.78	56.65	66.71	---	---
11	50.67	37.07	36.05	29.84	30.00	36.36	43.52	56.33	58.06	65.92	---	---
12	50.52	36.60	36.13	30.23	29.92	37.07	44.46	57.51	60.03	65.61	---	---
13	51.62	34.87	35.03	30.31	29.29	37.15	45.56	56.88	61.36	66.00	---	---
14	51.69	35.03	33.53	29.76	29.29	38.09	45.25	55.55	58.85	---	---	---
15	50.83	33.61	32.75	29.21	29.45	38.96	44.78	57.59	57.36	---	---	---
16	48.63	30.15	32.28	29.37	29.84	40.61	46.19	55.55	57.12	---	---	---
17	48.86	34.01	31.96	28.27	31.33	40.06	48.55	54.21	55.94	---	---	---
18	47.84	36.21	30.39	28.50	32.35	39.27	50.12	52.72	58.22	---	---	---
19	46.90	33.45	29.13	28.03	32.90	40.45	52.17	53.66	59.32	---	---	---
20	45.96	32.04	26.61	27.48	32.12	38.01	52.80	52.40	61.13	---	---	---
21	45.40	31.33	28.27	27.64	32.59	38.57	54.13	49.41	62.54	---	---	---
22	46.82	34.01	28.58	28.19	32.75	39.74	54.13	51.54	63.33	---	---	---
23	47.06	35.03	27.72	28.34	32.59	37.94	52.32	52.64	63.88	---	---	---
24	46.90	32.75	25.91	30.39	32.75	37.07	50.75	53.82	63.41	---	---	---
25	45.72	30.00	24.49	31.73	33.14	37.07	49.57	55.55	63.88	---	---	---
26	44.38	28.19	24.26	32.43	33.53	37.86	48.86	56.88	65.30	---	---	---
27	43.83	27.09	27.09	32.59	33.61	38.49	47.61	58.22	62.94	---	---	---
28	44.85	29.13	26.77	31.49	33.77	39.04	47.29	54.68	63.88	---	---	---
29	43.68	32.12	24.89	30.00	---	40.06	46.27	54.76	65.30	---	---	---
30	41.63	34.71	24.33	30.23	---	40.06	47.92	55.86	65.14	---	---	---
31	41.08	---	26.06	27.87	---	41.16	---	57.28	---	---	---	---
TOTAL	15.00	46.43	9.00	19.42	8.00	64.62	13.00	78.39	17.00	41.84	0.00	0.00
MEAN	49.35	34.88	30.87	29.66	29.66	37.57	46.54	54.14	59.59	64.76	0.00	0.00
MAX	56.96	41.55	36.13	32.59	33.77	41.16	54.13	58.22	65.30	66.71	0.00	0.00
MIN	41.08	27.09	24.26	27.48	23.31	33.85	40.77	49.41	54.37	61.84	0.00	0.00

WTR YR 1994 TOTAL 12151.47 MEAN 42.49 MAX 66.71 MIN 23.31

PICABO

XD XD WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

MIN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56.49	43.83	35.81	28.89	28.34	33.93	42.10	50.04	55.86	65.69	---	---
2	56.49	43.05	36.13	29.84	27.24	34.24	42.89	50.04	55.15	65.92	---	---
3	56.41	43.36	36.21	30.23	26.46	34.63	44.23	50.20	56.18	64.98	---	---
4	56.65	43.52	36.21	31.41	25.99	35.26	42.73	51.54	56.80	64.20	---	---
5	56.96	42.42	35.58	32.28	25.91	35.66	42.18	52.32	56.65	64.51	---	---
6	57.83	41.08	34.87	32.90	25.99	35.81	43.05	52.95	58.22	62.86	---	---
7	57.43	39.98	34.79	31.10	27.09	35.97	42.73	53.90	56.18	63.25	---	---
8	55.31	39.51	35.18	30.31	28.97	36.21	41.95	54.37	55.55	64.27	---	---
9	53.50	38.80	35.81	30.70	30.00	36.44	43.20	54.76	56.25	65.22	---	---
10	52.72	39.43	36.36	31.02	30.15	36.60	44.30	55.55	56.96	66.32	---	---
11	52.56	39.51	36.68	30.94	30.39	36.76	44.23	56.10	57.98	66.16	---	---
12	52.40	39.19	36.91	31.33	30.55	37.62	45.01	57.04	59.32	66.08	---	---
13	52.95	38.17	36.44	31.41	30.15	37.78	45.88	56.96	60.42	66.32	---	---
14	53.03	37.70	35.58	31.02	30.07	38.57	45.72	56.18	59.16	---	---	---
15	52.40	36.84	34.79	30.62	30.23	39.51	45.56	56.96	58.22	---	---	---
16	50.99	34.01	34.16	30.70	30.39	40.84	46.66	55.70	57.98	---	---	---
17	50.75	36.60	33.93	30.00	31.02	40.61	48.47	54.60	57.20	---	---	---
18	50.12	37.62	32.83	30.00	32.04	40.22	49.89	53.58	58.46	---	---	---
19	49.26	36.52	31.80	29.68	32.67	40.69	51.46	53.82	59.48	---	---	---
20	48.39	35.26	30.07	29.21	32.75	39.19	52.48	52.72	60.74	---	---	---
21	47.76	34.56	30.39	29.21	32.83	39.35	53.50	51.07	62.07	---	---	---
22	48.55	35.50	30.62	29.45	32.98	40.22	53.97	52.17	62.78	---	---	---
23	48.94	36.44	30.07	29.76	32.98	38.96	52.72	53.03	63.49	---	---	---
24	48.86	35.11	28.89	30.47	32.98	38.17	51.22	54.13	63.41	---	---	---
25	48.16	33.22	27.79	31.57	33.22	37.94	50.20	55.31	63.72	---	---	---
26	46.98	31.65	27.24	32.35	33.61	38.72	49.41	56.57	64.75	---	---	---
27	46.19	30.70	28.34	32.98	33.69	39.27	48.39	57.59	63.57	---	---	---
28	46.58	31.49	29.05	32.67	33.77	39.90	48.08	55.39	64.04	---	---	---
29	46.03	32.90	27.79	31.65	---	40.84	47.45	55.23	64.82	---	---	---
30	44.46	34.95	27.17	31.41	---	41.08	48.63	55.86	65.14	---	---	---
31	43.68	---	28.03	30.00	---	41.95	---	56.88	---	---	---	---
TOTAL	15.00	22.92	10.00	55.11	8.00	82.94	14.00	82.56	17.00	45.78	0.00	0.00
MEAN	51.25	37.43	32.76	30.81	30.45	38.16	46.94	54.28	59.68	65.06	0.00	0.00
MAX	57.83	43.83	36.91	32.98	33.77	41.95	53.97	57.59	65.14	66.32	0.00	0.00
MIN	43.68	30.70	27.17	28.89	25.91	33.93	41.95	50.04	55.15	62.86	0.00	0.00

WTR YR 1994 TOTAL 12444.96 MEAN 43.51 MAX 66.32 MIN 25.91

PICABO

XG XG WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

MAX VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59.71	43.91	36.05	29.68	27.95	35.73	46.19	54.84	58.61	72.14	---	---
2	59.64	42.57	36.21	29.76	26.46	36.84	47.68	54.21	58.85	71.04	---	---
3	59.87	44.62	36.13	31.33	25.59	37.62	46.27	55.08	60.81	69.23	---	---
4	60.03	43.99	35.58	32.28	25.59	38.17	45.56	54.92	60.42	69.38	---	---
5	60.42	42.26	35.50	33.30	25.59	38.17	45.25	56.57	61.44	68.76	---	---
6	60.50	40.45	34.01	33.30	26.77	37.78	45.88	57.43	61.29	66.95	---	---
7	59.56	39.27	34.32	31.49	29.13	37.23	45.25	58.14	58.85	69.46	---	---
8	56.57	38.57	35.26	29.84	30.15	38.33	45.33	57.91	59.16	71.04	---	---
9	54.60	38.72	35.89	30.78	30.15	38.33	46.58	59.32	60.81	71.98	---	---
10	53.97	39.98	36.05	30.86	30.07	38.57	48.00	59.87	62.15	72.37	---	---
11	53.66	39.43	36.21	30.70	30.62	40.69	49.18	61.13	63.49	72.14	---	---
12	54.52	38.64	36.36	30.94	30.62	40.14	49.65	60.97	64.20	72.29	---	---
13	55.08	37.78	36.29	31.02	29.92	41.24	48.86	60.66	63.72	72.45	---	---
14	54.52	36.91	34.87	30.70	30.00	42.50	49.57	59.87	62.47	---	---	---
15	53.27	36.05	34.16	30.15	30.00	43.91	50.44	59.32	62.94	---	---	---
16	51.93	36.68	33.14	30.23	31.25	43.99	51.93	57.91	61.84	---	---	---
17	52.32	36.68	33.06	29.68	32.28	43.20	53.97	56.18	63.09	---	---	---
18	51.22	37.62	31.88	29.52	32.90	42.65	55.23	56.02	64.67	---	---	---
19	50.20	36.36	30.31	29.21	33.14	42.57	57.12	55.63	66.24	---	---	---
20	49.18	34.32	28.97	28.82	33.14	40.84	57.83	54.13	67.73	---	---	---
21	49.26	34.24	29.45	29.21	32.83	42.50	58.69	53.97	67.97	---	---	---
22	50.67	36.05	29.37	29.68	32.98	41.71	57.91	56.41	69.23	---	---	---
23	50.83	35.81	29.13	30.23	32.83	40.22	55.94	57.59	69.54	---	---	---
24	50.59	34.95	27.64	31.65	33.14	39.67	53.11	58.77	69.23	---	---	---
25	49.49	32.43	26.54	32.43	33.61	41.00	52.40	60.26	70.72	---	---	---
26	47.45	30.00	27.17	32.98	33.69	42.50	51.38	61.36	69.70	---	---	---
27	46.58	29.60	29.60	33.14	33.93	42.65	50.59	60.81	68.91	---	---	---
28	47.92	32.12	29.29	33.06	34.24	44.30	50.20	57.98	70.41	---	---	---
29	47.21	34.79	26.69	31.88	---	44.70	52.32	58.61	70.88	---	---	---
30	44.15	35.66	26.85	30.86	---	45.33	53.19	60.66	71.82	---	---	---
31	44.15	---	28.19	30.31	---	44.85	---	60.26	---	---	---	---
TOTAL	16.00	20.46	10.00	59.02	8.00	67.93	15.00	96.79	19.00	19.23	0.00	0.00
MEAN	52.87	37.35	32.26	30.94	30.66	40.90	50.72	57.96	64.71	70.71	0.00	0.00
MAX	60.50	44.62	36.36	33.30	34.24	45.33	58.69	61.36	71.82	72.45	0.00	0.00
MIN	44.15	29.60	26.54	28.82	25.59	35.73	45.25	53.97	58.61	66.95	0.00	0.00

WTR YR 1994 TOTAL 13023.93 MEAN 45.54 MAX 72.45 MIN 25.59

			PICABO									
XH	XH	WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994										
			MAX VALUES									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58.22	44.93	36.36	29.92	30.00	34.79	44.30	52.32	56.88	68.13	---	---
2	58.30	44.30	36.84	30.23	28.42	35.34	45.40	52.32	57.04	68.20	---	---
3	58.38	44.85	36.91	31.41	27.56	36.05	45.40	52.72	58.22	67.34	---	---
4	58.46	44.85	36.44	32.12	26.93	36.68	44.78	52.95	58.46	66.79	---	---
5	58.77	43.99	36.52	33.30	26.77	36.84	44.23	54.21	58.77	66.55	---	---
6	59.08	42.73	35.58	33.38	27.01	36.91	44.46	55.08	59.08	64.98	---	---
7	59.08	41.47	35.18	32.90	28.89	36.84	44.38	55.86	58.46	65.92	---	---
8	57.67	40.69	35.89	31.02	30.23	37.39	44.07	55.94	57.28	67.03	---	---
9	55.23	40.06	36.52	31.41	30.31	37.54	45.01	56.88	58.14	67.97	---	---
10	54.60	40.53	36.76	31.49	30.39	37.70	46.11	57.36	59.08	68.60	---	---
11	53.90	40.53	36.99	31.33	30.86	38.88	46.90	58.38	60.11	68.68	---	---
12	53.97	40.29	37.07	31.49	30.94	38.96	47.45	58.53	61.21	68.60	---	---
13	54.29	39.74	37.07	31.73	30.62	39.74	47.53	58.61	61.36	68.68	---	---
14	54.29	38.80	36.36	31.65	30.39	40.77	47.76	58.46	61.05	---	---	---
15	54.05	38.33	35.66	31.25	30.47	41.87	48.24	57.83	60.34	---	---	---
16	52.87	37.62	34.79	31.10	31.02	42.34	49.41	57.28	60.26	---	---	---
17	52.01	37.62	34.48	30.86	32.04	42.34	51.14	55.86	59.71	---	---	---
18	52.09	38.41	34.01	30.47	32.75	41.87	52.32	55.00	61.05	---	---	---
19	51.07	38.33	32.75	30.31	33.06	41.63	54.13	54.92	62.23	---	---	---
20	50.36	36.76	31.80	30.00	33.14	41.32	54.92	54.05	63.57	---	---	---
21	49.26	35.89	30.86	29.84	33.06	41.16	55.70	53.11	64.27	---	---	---
22	50.12	36.76	30.94	30.07	33.14	41.24	55.86	54.29	65.14	---	---	---
23	50.36	36.84	30.78	30.39	33.14	40.61	54.92	55.15	65.77	---	---	---
24	50.28	36.68	30.07	31.57	33.30	39.67	52.72	56.25	65.85	---	---	---
25	50.20	35.11	29.13	32.35	33.69	39.90	52.01	57.51	66.40	---	---	---
26	48.79	33.14	28.27	32.98	33.77	40.92	51.14	58.46	66.55	---	---	---
27	47.68	31.88	30.07	33.30	34.08	41.32	49.89	58.69	66.08	---	---	---
28	47.84	32.83	30.07	33.30	34.24	42.50	49.57	57.59	66.40	---	---	---
29	47.84	34.87	29.05	32.90	---	42.97	50.20	56.73	67.10	---	---	---
30	46.27	35.97	28.11	31.88	---	43.44	50.99	57.98	67.65	---	---	---
31	44.85	---	28.89	31.57	---	43.52	---	58.14	---	---	---	---
TOTAL	16.00	64.80	10.00	77.52	8.00	33.05	14.00	38.46	18.00	77.47	0.00	0.00
MEAN	52.91	38.83	33.56	31.53	31.08	39.78	49.03	56.08	61.78	67.50	0.00	0.00
MAX	59.08	44.93	37.07	33.38	34.24	43.52	55.86	58.69	67.65	68.68	0.00	0.00
MIN	44.85	31.88	28.11	29.84	26.77	34.79	44.07	52.32	56.88	64.98	0.00	0.00
	WTR YR 1994 TOTAL			12866.37 MEAN		44.99 MAX		68.68 MIN		26.77		

PICABO

YM YM WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.03	16.69	27.88	25.85	2.27	30.70	31.86	31.38	42.22	33.18	---	---
2	31.00	12.06	25.19	19.77	4.35	32.32	29.80	28.86	34.42	36.83	---	---
3	30.60	18.86	18.82	28.80	5.43	30.65	30.57	26.52	43.42	21.60	---	---
4	28.01	16.69	23.21	30.62	6.75	28.87	22.23	37.17	35.66	26.83	---	---
5	33.72	14.66	6.79	25.11	7.53	27.36	22.69	42.48	31.51	31.69	---	---
6	41.73	12.27	12.85	14.90	10.81	25.59	32.15	34.69	29.79	36.27	---	---
7	36.97	13.17	20.31	9.34	29.21	21.29	24.55	36.05	25.54	40.32	---	---
8	34.10	12.15	31.53	22.10	21.31	23.36	17.19	39.00	25.11	39.52	---	---
9	33.12	10.21	25.64	20.65	15.97	21.51	26.30	40.20	29.99	37.89	---	---
10	32.24	8.40	27.32	9.86	21.41	27.22	33.42	39.21	35.21	33.40	---	---
11	35.79	7.88	24.38	20.52	15.92	26.62	26.89	36.60	42.08	26.28	---	---
12	39.11	11.89	19.35	19.44	1.49	19.28	25.50	44.61	46.53	25.71	---	---
13	39.95	15.47	9.52	18.17	8.02	21.28	15.33	30.93	41.91	29.48	---	---
14	37.58	11.48	12.37	14.75	13.73	18.54	17.64	25.46	25.86	---	---	---
15	38.13	9.35	14.33	19.60	14.54	20.07	19.61	28.15	22.46	---	---	---
16	36.15	10.27	19.83	15.40	18.92	24.08	22.02	32.14	24.98	---	---	---
17	36.26	12.13	15.74	16.09	27.83	20.83	25.68	37.41	24.92	---	---	---
18	31.54	8.78	10.87	14.08	27.38	22.20	27.78	34.91	27.40	---	---	---
19	30.11	3.74	8.53	14.28	16.21	14.83	35.34	36.52	29.32	---	---	---
20	26.53	6.65	7.97	15.92	18.16	8.92	32.91	38.96	33.45	---	---	---
21	28.67	7.18	13.89	17.46	22.83	20.77	32.32	35.12	41.75	---	---	---
22	30.46	20.56	12.14	17.62	15.65	23.59	36.03	35.80	43.33	---	---	---
23	27.41	14.54	9.90	19.65	16.89	10.06	33.83	30.24	36.05	---	---	---
24	27.89	-0.49	9.16	27.98	31.41	9.14	37.30	34.06	29.59	---	---	---
25	16.38	-5.34	6.68	26.20	32.37	13.61	35.31	36.65	28.82	---	---	---
26	17.64	-2.67	13.31	27.37	33.99	15.63	34.70	37.92	27.29	---	---	---
27	20.30	2.90	21.18	22.47	32.57	17.85	34.03	45.99	27.19	---	---	---
28	21.48	12.66	11.96	16.92	25.36	19.47	33.00	37.02	34.06	---	---	---
29	16.51	30.79	9.55	17.79	---	13.96	26.28	40.11	34.28	---	---	---
30	12.48	28.31	12.69	11.78	---	8.70	31.76	37.75	33.72	---	---	---
31	16.76	---	20.19	-1.56	---	22.65	---	46.89	---	---	---	---
TOTAL	9.00	41.24	5.00	5.00	98.31	6.00	54.02	11.00	87.86	4.00	0.00	0.00
MEAN	29.54	11.37	16.23	18.68	17.80	20.68	28.47	36.09	32.93	32.23	0.00	0.00
MAX	41.73	30.79	31.53	30.62	33.99	32.32	37.30	46.89	46.53	40.32	0.00	0.00
MIN	12.48	-5.34	6.68	-1.56	1.49	8.70	15.33	25.46	22.46	21.60	0.00	0.00

WTR YR 1994 TOTAL 6857.84 MEAN 23.98 MAX 46.89 MIN -5.34

PICABO

ZK ZK WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

MAX VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63.88	43.05	36.13	29.68	25.59	36.76	49.81	59.08	61.21	80.08	---	---
2	63.49	42.42	35.42	29.45	25.12	39.27	52.24	58.14	62.31	74.73	---	---
3	64.12	45.48	34.71	31.49	24.41	40.61	47.53	59.08	64.90	74.42	---	---
4	64.35	42.81	34.40	32.75	25.12	40.92	48.47	58.14	63.33	75.67	---	---
5	64.98	40.29	33.77	33.38	25.59	40.61	48.08	59.95	66.08	70.17	---	---
6	64.35	38.64	32.67	33.14	27.01	39.82	48.71	61.13	62.94	71.74	---	---
7	59.87	38.01	33.38	28.42	29.84	38.72	47.53	62.23	60.26	77.56	---	---
8	54.29	37.31	34.48	28.89	30.55	40.37	48.55	61.13	63.02	79.68	---	---
9	56.25	38.80	34.95	30.07	29.68	40.37	49.81	64.04	65.61	80.71	---	---
10	55.86	40.77	35.11	29.84	29.76	40.37	51.54	64.20	67.81	80.39	---	---
11	54.76	39.90	35.18	30.00	30.15	43.91	53.97	66.08	68.68	80.39	---	---
12	57.20	38.33	35.26	30.31	30.07	42.65	54.37	65.45	68.99	80.71	---	---
13	58.14	36.13	35.11	30.23	28.97	44.15	51.93	64.51	66.08	81.02	---	---
14	56.25	36.13	32.90	29.37	30.00	45.88	53.66	63.57	66.32	---	---	---
15	53.66	34.71	31.41	29.52	29.60	47.29	55.15	60.81	68.36	---	---	---
16	53.82	36.84	31.65	29.21	31.96	46.58	57.28	57.91	65.06	---	---	---
17	54.29	36.91	31.25	28.89	32.67	45.40	59.95	56.96	69.86	---	---	---
18	51.93	37.23	28.89	28.74	33.06	44.78	61.36	58.61	71.11	---	---	---
19	51.54	33.69	27.87	28.50	33.14	44.46	63.25	55.70	73.94	---	---	---
20	49.57	33.22	25.75	28.27	32.98	42.50	63.72	55.78	76.07	---	---	---
21	51.07	33.77	27.95	29.05	32.43	45.17	64.35	56.02	74.89	---	---	---
22	53.03	35.81	27.09	29.84	32.51	42.34	60.74	59.95	76.46	---	---	---
23	53.42	33.93	26.46	30.70	32.28	41.55	55.55	61.44	76.07	---	---	---
24	52.64	32.04	25.75	32.20	33.14	41.08	55.55	62.70	75.67	---	---	---
25	48.86	27.32	23.86	32.67	33.53	43.52	55.15	64.59	78.58	---	---	---
26	46.98	26.30	26.30	32.90	33.61	45.56	51.54	65.77	74.10	---	---	---
27	47.37	27.56	29.76	33.06	33.85	45.64	52.80	61.92	74.97	---	---	---
28	49.49	31.49	27.32	32.51	34.24	47.68	52.40	59.79	78.11	---	---	---
29	44.93	35.73	24.96	30.70	---	48.08	56.41	61.68	77.88	---	---	---
30	42.97	35.89	25.99	29.92	---	48.71	56.96	64.98	79.60	---	---	---
31	44.78	---	27.95	27.64	---	47.13	---	61.13	---	---	---	---
TOTAL	16.00	90.51	9.00	9.00	50.86	13.00	28.36	18.00	98.27	10.00	0.00	0.00
MEAN	54.46	36.35	30.76	30.37	30.39	43.29	54.28	61.05	69.94	77.48	0.00	0.00
MAX	64.98	45.48	36.13	33.38	34.24	48.71	64.35	66.08	79.60	81.02	0.00	0.00
MIN	42.97	26.30	23.86	27.64	24.41	36.76	47.53	55.70	60.26	70.17	0.00	0.00

WTR YR 1994 TOTAL 13492.78 MEAN 47.18 MAX 81.02 MIN 23.86

PICABO

ZL ZL WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

MIN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51.22	36.91	32.75	25.28	20.80	33.61	39.43	49.34	54.45	63.96	---	---
2	51.30	36.13	34.95	25.83	19.77	33.85	40.53	47.37	51.93	64.35	---	---
3	51.54	38.41	31.65	29.29	18.99	34.08	43.28	47.06	55.47	61.60	---	---
4	51.77	36.60	32.83	30.07	19.07	34.48	39.82	50.75	54.84	59.71	---	---
5	53.03	34.63	30.86	32.83	19.46	34.79	38.41	52.48	54.76	62.78	---	---
6	54.29	32.28	30.15	28.42	20.01	34.79	42.02	51.77	58.22	58.85	---	---
7	53.82	31.02	30.55	22.92	26.85	34.79	40.22	52.40	51.85	60.81	---	---
8	49.96	30.94	33.45	24.96	29.84	34.95	38.41	52.87	51.85	62.31	---	---
9	47.68	30.31	34.48	28.89	27.79	35.11	41.79	53.74	54.13	63.72	---	---
10	45.88	34.08	34.87	27.72	28.27	35.26	43.60	54.68	54.68	65.85	---	---
11	47.06	32.59	35.03	28.27	29.68	35.50	41.16	55.08	56.41	63.41	---	---
12	46.74	31.80	35.11	28.58	28.89	35.97	42.02	56.88	59.24	62.86	---	---
13	49.02	28.82	31.96	28.42	28.03	35.97	43.60	55.08	61.44	63.57	---	---
14	48.71	30.39	29.52	27.40	28.03	36.84	43.36	52.56	56.80	---	---	---
15	47.45	27.64	28.66	26.85	28.27	37.62	41.71	57.51	54.60	---	---	---
16	44.15	29.60	28.97	26.93	28.97	39.59	43.91	54.21	54.13	---	---	---
17	45.01	29.45	27.95	25.20	32.04	38.33	47.45	52.48	52.32	---	---	---
18	43.44	32.43	26.22	25.75	32.67	37.46	49.10	50.36	56.18	---	---	---
19	42.65	27.56	24.10	24.89	32.98	39.19	52.09	52.48	57.43	---	---	---
20	41.55	26.46	20.25	24.26	30.47	35.97	51.46	49.26	59.64	---	---	---
21	41.24	25.44	25.28	25.04	32.12	37.15	53.66	46.35	61.60	---	---	---
22	43.52	31.80	25.51	25.75	32.28	38.41	52.48	49.65	62.31	---	---	---
23	43.36	32.35	23.63	25.91	31.73	36.13	50.04	50.83	62.78	---	---	---
24	42.97	27.79	20.64	29.84	32.28	35.26	48.86	52.17	61.44	---	---	---
25	41.24	24.49	18.67	30.86	33.06	35.26	47.29	54.45	62.15	---	---	---
26	39.82	22.45	19.62	31.88	33.38	36.21	46.98	55.86	64.98	---	---	---
27	39.59	21.58	25.44	31.41	33.53	36.44	45.64	57.83	60.03	---	---	---
28	41.79	25.51	22.29	28.50	33.61	37.07	45.40	52.17	62.07	---	---	---
29	39.27	31.25	20.17	26.69	---	38.09	43.68	52.95	64.59	---	---	---
30	36.36	33.93	19.77	28.03	---	37.78	45.80	54.76	63.57	---	---	---
31	36.36	---	22.92	23.63	---	39.19	---	57.04	---	---	---	---
TOTAL	14.00	14.64	8.00	50.30	7.00	25.14	13.00	32.42	17.00	13.78	0.00	0.00
MEAN	45.54	30.49	27.69	27.43	28.32	36.29	44.77	52.66	57.86	62.60	0.00	0.00
MAX	54.29	38.41	35.11	32.83	33.61	39.59	53.66	57.83	64.98	65.85	0.00	0.00
MIN	36.36	21.58	18.67	22.92	18.99	33.61	38.41	46.35	51.85	58.85	0.00	0.00

WTR YR 1994 TOTAL 11478.28 MEAN 40.13 MAX 65.85 MIN 18.67

(Water Year October 1992 To September 1993)

*** ARCHIVES PARAMETERS ***

ET = MODIFIED PENMAN ETr (in) EJ = JENSEN-HAISE ETr (in)
MAX DAILY TEMPERATURE (deg F) TA = MEAN DAILY HUMIDITY (%)
= MIN DAILY TEMPERATURE (deg F) TU = MIDNIGHT HUMIDITY (%)
AN DAILY TEMPERATURE (deg F) YM = DAILY MEAN DEW POINT (deg F)
LY PRECIPITATION (in) UA = DAILY AVERAGE WIND SPEED (mph)
ULATED PRECIPITATION (in) UD = DAILY RESULTANT WIND DIR (deg az)
ILY SOLAR RADIATION (langley) UV = DAILY RESULTANT WIND RUN (miles)
WR = DAILY WIND RUN (miles)

*** ADDITIONAL ARCHIVES PARAMETERS ***

MIN/MAX 2" SOIL TEMP - PMAI,HERO,COVM,TWFI,ECHO,CRVO,ABEI,CRSM

MIN/MAX 4" SOIL TEMP - PMAI,BANO,HERO,COVM,AHTI,MRSO,TWFI,CRVO

= MIN/MAX 8" SOIL TEMP - PMAI,AHTI,MRSO,CRVO,ABEI,CRSM,MALI,AFTY

ZG/ZH = MIN/MAX 20" SOIL TEMP - PMAI,CRVO,ABEI,CRSM,ONTO
ZCN/ZCX = MIN/MAX 40" SOIL TEMP - CRVO,ABEI,CRSM

XB/XF = MIN/MAX 1" SOIL TEMP - PMAI,BANO

AFTY,PICI

ABEI,CRSM,MALI,PICI,AFTY,ECHO,RPTI,RXGI

ONTO,PICI

ZCM = MEAN 40" SOIL TEMP - CRVO
YB/YA = MIN/MAX CANOPY TEMP - BANO
YD/YC = MIN/MAX SHELTER TEMP - BANO
YY = MEAN SHELTER TEMP - BANO
YL = MEAN 1" SOIL TEMP - BANO
YW = MEAN 4" SOIL TEMP - BANO
Z1= MIN CANOPY TEMP (unshielded) - BANO
PE = 24 HOUR PAN EVAP - CRVO
WK/WL/WZ = MAX/MIN/MEAN WATER TEMP - CRVO
WR2 = WIND RUN (VAR. HT) - CRVO (2'),TWFI (12')

Appendix E

Land Use Data

Land Use Data of the Big Wood River-Silver Creek Area for 1993-94

Location				Node	Water Source				Acres Irrigated						Irrigation Method		
TN	RN	Sec.	Q.Sec	(i,j)	S. Water	G.Water	Dry	Total	Wheat	Barley	Oats	Alfalfa	Pasture	Canola	Potato	Sprinkler	Gravity	Sub-irrig
2N	18E	15	SE	4,3		55		55				55				55		
		22	NE	4,4		78	30	108				56	52			78		
			NW	3,4			24	24					24					
		23	NW	5,4		85		85		53			32			42	43	
			SW	5,5		112		112		31		22	59			75	37	
		25	NW	7,6		67		67				67				67		
		26	NE	6,6		75		75		57			18			75		
			NW	5,6		28	74	102					102			28		
		27	NE	4,6			114	114					114					
		35	NE	6,8	35			35				35				35		
			SE	6,9	70			70					70			70		
1N	18E	1	NE	8,10		60		60					60			60		
			NW	7,10		55		55				55				55		
			SW	7,11	40			40				40				40		
			SE	8,11	100	25	25	150				125	25			125		
		2	NE	6,10	55			55				55				55		
		12	NE	8,12	96	60		156	30	56		22	48			156		
			NW	7,12		60		60			30		30			60		
			SW	7,13		148	12	160					160			36		112
		13	NE	8,14	46	24	70	140		46			94			70		
			SE	8,15		80	60	140					140					80
		14	NE	6,14		23	94	117		11		12	94			23		
			NW	5,14	27		28	55				27	28			27		
			SW	5,15	133			133		133						133		
			SE	6,15	44			44		44						44		
		15	SE	4,15	158			158	108			50				158		
		22	NE	4,16	85		75	160	85				75			85		
			NW	3,16			50	50					50					
			SE	4,17	54		106	160			18	36	106			36	18	
		23	NE	6,16	22			22				22				22		
			SW	5,17			147	147					147					

Location				Node	Water Source				Acres Irrigated						Irrigation Method			
TN	RN	Sec.	Q.Sec.	(i,j)	S.Water	G.Water	Dry	Total	Wheat	Barley	Oats	Alfalfa	Pasture	Canola	Potato	Sprinkler	Gravity	Sub-irrig
		24	NE	8,16	55	78	27	160				70	90			30	40	63
			SW	7,17	30			30				30					30	
			SE	8,17	90		70	160				90	70			50	40	
		25	NE	8,18	160			160			20	52	88			160		
			NW	7,18			47	47					47					
			SW	7,19			78	78					78					
			SE	8,19	147			147		147						147		
		27	NE	4,18		90	30	120				120					90	
		34	SE	4,21		70		70					70			70		
		35	NE	6,20		75		75					75			75		
			SE	6,21		140		140					140			140		
		36	NE	8,20		80		80					80					80
			NW	7,20		160		160		110					50	160		
			SW	7,21		160		160		160						160		
			SE	8,21	102		58	160				102	58			102		
1S	18E	1	NE	8,22		55		55		30		25				55		
			NW	7,22		50		50		20		12	18			50		
			SW	6,23		63		63		47		16				63		
			SE	7,23		160		160		40		80			40	120		
		2	NE	5,22		30		30					30			30		
			NW	4,22	50			50					50				50	
			SE	4,23		120		120					120			120		
			SW	5,23	80			80					80				80	
		3	NE	3,22	25			25					25				25	
			SW	2,23	80			80					80			80		
			SE	3,23	105			105					105			50	55	
		10	NE	3,24	35			35				35				35		
			NW	2,24	56	83		139				56	83			139		
		11	NE	5,24		158		158					158			158		
			NW	4,24	24	59		83					83			83		
			SW	4,25	120			120					120			120		
			SE	5,25	42	23		65					65			65		

Location				Node	Water Source				Acres Irrigated							Irrigation Method			
TN	RN	Sec.	Q.Sec.	(i,j)	S.Water	G.Water	Dry	Total	Wheat	Barley	Oats	Alfalfa	Pasture	Canola	Potato	Sprinkler	Gravity	Sub-irrig
		12	NE	7,24		95		95					95			95		
			NW	6,24	136			136		50		30	56			80	56	
			SW	6,25	30	65		95					65		30	30	65	
		13	NE	7,26		79		79				79				79		
			SW	6,27	50	85		135				85	50			85	50	
			SE	7,27		157		157					157			157		
		14	NE	5,26	100	60		160					160			160		
			NW	4,26		70		70					70			70		
			SE	5,27		45		45					45			45		
		15	NE	3,26	120			120					120			120		
			NW	2,26			48	48					48					
			SW	2,27	120			120					120				120	
			SE	3,27	100			100					100				100	
		16	NE	1,26	60		70	130					130			60		
		21	NE	1,28		70		70				70				70		
			SE	1,29	80			80		30		50				80		
		22	NW	2,28	72	15		87				87					87	
		23	NE	5,28		40	27	67				27	40			40		
			NW	4,28	62		60	122				60	62				62	
			SW	4,29			44	44					44					
		24	NE	7,28		85		85					85			85		
			NW	6,28		130		130					130			130		
			SW	6,29		45		45					45			45		
		26	NW	5,30	60			60				60				60		
			SW	4,31	80			80				80				80		
		27	NE	3,30	40			40				40				40		
			NW	2,30	35			35				35				35		
			SW	2,31	70			70				70				70		
			SE	3,31	90			90				90				90		
		28	NE	1,30	50			50				50				50		
1N	19E	6	NE	10,10	112		16	128		34	73	21				107	5	
		7	NE	10,12	110			110		60	50					110		

Location				Node	Water Source				Acres Irrigated						Irrigation Method			
TN	RN	Sec.	Q.Sec	(i,j)	S.Water	G.Water	Dry	Total	Wheat	Barley	Oats	Alfalfa	Pasture	Canola	Potato	Sprinkler	Gravity	Sub-irrig
			NW	9,12	15		85	100					100				15	
			SW	9,13	120		40	160	25	55		40	40			120		
		8	SW	11,13	90		21	111					111			90		
		17	NE	12,14	30	35		65				65				65		
			NW	11,14	70	80		150				150				150		
			SW	11,15	45	80		125				125				125		
			SE	12,15		110		110				110				110		
		18	NE	10,14	140			140				140				140		
			NW	9,14	30			30				30				30		
			SW	9,15		90	60	150				90	60			90		
			SE	10,15	160			160				160				160		
		19	NE	10,16	50	100		150		100		50				150		
			NW	9,16		75	40	115		75			40			75		
			SW	9,17	75	60		135		135						135		
			SE	10,17	150			150		150						150		
		20	NE	12,16		160		160				160				160		
			NW	11,16	90	70		160		70		90				150		
			SW	11,17	31	129		160		160						160		
			SE	12,17	79	81		160		79		81				160		
		21	SW	13,17		60		60				60				60		
		27	NE	16,18	44			44					44			44		
			NW	15,18	42			42					42			42		
			SW	15,19	120	30		150		120					30	150		
			SE	16,19	93			93		93						93		
		28	NW	13,18	31	83		114		83		31				114		
			SW	13,19	105		16	121				105	16			105		
			SE	14,19		115		115							115	115		
		29	NE	12,18	33	127		160		33					127	160		
			NW	11,18	150			150		40		110				150		
			SW	11,19	120		38	158				120	38			120		
			SE	12,19		120	38	158		120			38			120		
		30	NE	10,18		157		157		157						157		

Location				Node	Water Source				Acres Irrigated						Irrigation Method			
TN	RN	Sec.	Q.Sec	(i,j)	S.Water	G.Water	Dry	Total	Wheat	Bartey	Oats	Alfalfa	Pasture	Canola	Potato	Sprinler	Gravity	Sub-irrig
			NW	9,18	160			160		160						160		
			SW	9,19	160			160		160						160		
			SE	10,19		154		154		154						154		
		31	NE	10,20	141			141		141						141		
			NW	9,20	160			160		160						160		
			SW	9,21	156			156		36		75	45			156		
			SE	10,21	150			150		133			17			139	11	
		32	NE	12,20	140		15	155					15		140	140		
			NW	11,20	160			160		160						160		
			SW	11,21	145	15		160		145			15			160		
			SE	12,21	136		24	160		136			24			136		
		33	NE	14,20	24	120		144		64					80	144		
			NW	13,20	160			160		160						160		
			SW	13,21		152		152		46		106				152		
			SE	14,21		152		152		137		15				152		
		34	NW	15,20		65		65		25					65	65		
			SW	15,21	29	80		109		94		15				109		
			SE	16,21		55		55		55						55		
		35	NW	17,20		57		57		57						57		
			SW	17,21		95		95		95						95		
			SE	18,21			35	35					35					
1S	19E	1	NW	18,22			30	30					30					
			SW	18,23	75		25	100				75	25			75		
		2	NE	17,22		45		45		45						45		
			NW	16,22		47		47		47						47		
			SW	16,23		160		160		160						260		
			SE	17,23		115		115		25		90				115		
		3	NE	15,22		45		45		45						45		
			NW	14,22		40		40					40			25		15
			SW	14,23		147		147					77	70		110		37
			SE	15,23	24	136		160		70			24	66		136	24	
		4	NE	13,22		53		53					53			53		

Location				Node	Water Source				Acres Irrigated						Irrigation Method			
TN	RN	Sec.	Q.Sec	(i,j)	S.Water	G.Water	Dry	Total	Wheat	Barley	Oats	Alfalfa	Pasture	Canola	Potato	Sprinkler	Gravity	Sub-irrig
			NW	12,22		57		57					57			57		
			SW	12,23		160		160					160			160		
			SE	13,23		153		153		76			77			153		
		5	NE	11,22		51		51		51						51		
			NW	10,22		47		47		47						47		
			SW	10,23		139		139		139						139		
			SE	11,23		155		155		155						155		
		6	NE	9,22		53		53		53						53		
			NW	8,22		50		50			30	20				50		
			SW	8,23		160		160			80	80				160		
			SE	9,23		160		160		160						160		
		7	NE	9,24		125		125		35			90			125		
			NW	8,24	92	10		102			80	10	12			10	92	
			SW	8,25	40		120	160					160				40	
			SE	9,25			160	160					160					
		8	NE	11,24		140		140		70			70			140		
			NW	10,24	160			160					160			160		
			SW	10,25		160		160					160					160
			SE	11,25		160		160					160			160		
		9	NE	13,24		160		160					160			40		120
			NW	12,24		160		160					160			160		
			SW	12,25		150		150					150			150		
			SE	13,25		160		160					160					160
		10	NE	15,24	48	82		130		82		48				56	48	26
			NW	14,24		160		160		160						160		
			SW	14,25			160	160					160					160
			SE	15,25		130	30	160					160					130
		11	NE	17,24		160		160					160					160
			NW	16,24	70		70	140		140								
			SW	16,25			160	160		70			90					
			SE	17,25		130	30	160		30			130					30
		12	NW	18,24	160			160				100			60	160		

Location				Node	Water Source				Acres Irrigated							Irrigation Method			
TN	RN	Sec.	Q.Sec	(i,j)	S.Water	G.Water	Dry	Total	Wheat	Barley	Oats	Alfalfa	Pasture	Canola	Potato	Sprinkler	Gravity	Sub-irrig
			SW	18,25	160			160					160			160		
			SE	19,25	86			86		86						86		
		13	NE	19,26	96		47	143		20		76	47			96		
			NW	18,26		20	140	160		20			140			20		
			SW	18,27		129		129		50		79				129		
			SE	19,27	140			140					140				140	
		14	NE	17,26		150	10	160		160						73	77	
			NW	16,26		140	17	157		140			17				140	
			SW	16,27		30	125	155		145			10				30	
			SE	17,27		94		94		94							94	
		15	NE	15,26			145	145					145					
			NW	14,26			160	160		72			88					
			SW	14,27	100			100	100								100	
			SE	15,27		63	82	145		145						63		
		16	NE	13,26		130		130					130			130		
			NW	12,26			129	129		120			9					
			SW	12,27		117		117		86				31			117	
			SE	13,27		100	30	130		70			30	30			100	
		17	NE	11,26			150	150					150					
			NW	10,26		116		116		116							116	
			SW	10,27		105	55	160		105			55				105	
			SE	11,27		150		150		74		76					150	
		18	NE	9,26			155	155					155					
			NW	8,26			140	140					140					
			SW	8,27			155	155					155					
			SE	9,27			160	160					160					
		19	NE	9,28		21	22	43					43					21
			SE	9,29			35	35		35								
		20	NE	11,28		51	74	125		78			47				78	
			NW	10,28			65	65		65								
			SW	10,29			126	126		6			120					
			SE	11,29			135	135		45			90					

Location				Node	Water Source				Acres Irrigated						Irrigation Method			
TN	RN	Sec.	Q.Sec.	(i,j)	S.Water	G.Water	Dry	Total	Wheat	Barley	Oats	Alfalfa	Pasture	Canola	Potato	Sprinkler	Gravity	Sub-irrig
		21	NE	13,28		147		147				147					147	
			NW	12,28		128	25	153		128			25				128	
			SW	12,29			95	95					95					
			SE	13,29		140	9	149		130	10		9				140	
		22	NE	15,28		134		134		134							134	
			NW	14,28		159		159		108				51			159	
			SW	14,29		135		135		96		39					135	
			SE	15,29	60	69		129		69		60					129	
		23	NE	17,28		27	100	127		100		27					27	
			NW	16,28			111	111				70	41					
			SW	16,29			40	40		40								
			SE	17,29		37	80	117				37	80			37	40	
		24	NE	19,28		116		116				56	60			56	60	
			NW	18,28		155		155				75	80			143	12	
			SW	18,29	28	82	35	145				110	35			82	28	
			SE	19,29	10	34	67	111		10			101			10	24	10
		25	NE	19,30		50	15	65				50	15			50		
			NW	18,30		50	20	70		50			20			50		
			SW	18,31		55		55				55				55		
		26	NE	17,30		75		75		75						75		
			NW	16,30		30	50	80		30			50			30		
			SW	16,31		105		105		70					35	70	35	
			SE	17,31		89		89				30			59	30	59	
		27	NE	15,30	90		13	103				90	13			35	55	
			NW	14,30	27	43	15	85		45		25	15			27	43	
			SW	14,31	40			40		40						40		
			SE	15,31	45		21	66				45	21			45		
		28	NE	13,30	51	75		126		71	55					51	75	
			SE	13,31	64			64		64						64		
		29	NE	11,30			90	90					90					
			NW	10,30			65	65					65					
			SW	10,31			71	71		71								

Location				Node	Water Source				Acres Irrigated						Irrigation Method			
TN	RN	Sec.	Q.Sec.	(i,j)	S.Water	G.Water	Dry	Total	Wheat	Barley	Oats	Alfalfa	Pasture	Canola	Potato	Sprinkler	Gravity	Sub-irrig
			SE	11,31			15	15					15					
1S	20E	7	SW	20,25	111			111		111						111		
		15	NE	27,26		75		75		75						75		
		16	SW	24,27	71	89		160					89		71	71	89	
			SE	25,27	12	30	20	62		30			20		12	42		
		17	NE	23,26		27		27					27			27		
			NW	22,26			140	140					140					
			SW	22,27		95		95					95			95		
			SE	23,27	100			100					100				100	
		18	NE	21,26			110	110					110					
			NW	20,26	150			150		140		10				150		
			SW	20,27	160			160		155		5				160		
			SE	21,27		160		160				50	110			160		
		19	NE	21,28	100	60		160				160				160		
			NW	20,28		160		160		85			75			160		
			SW	20,29	69	82		151		41			110			41	28	82
			SE	21,29	136	18		154	65		18	71				154		
		20	NE	23,28		67	93	160				16	144			16	51	
			NW	22,28	80	78		158				158				158		
			SW	22,29	103	33		136				40	96			83	53	
			SE	23,29	60	75		135					135				135	
		21	NE	25,28	95		54	149					149				95	
			NW	24,28		65	90	155					155				65	
			SW	24,29	160			160					160				160	
			SE	25,29	160			160					160				160	
		22	NW	26,28	31	60		91		60			31			60	31	
			SW	26,29	143			143					143			13	130	
			SE	27,29		84	50	134					50		84	84		
		26	NW	28,36		32	21	53					21		32	32		
			SW	28,31	36	30		66		36		30				66		
		27	NE	27,30	103		33	136					136				103	
			NW	26,30	155			155					155				155	

Location				Node	Water Source				Acres Irrigated						Irrigation Method			
TN	RN	Sec.	Q.Sec	(i,j)	S.Water	G.Water	Dry	Total	Wheat	Barley	Oats	Alfalfa	Pasture	Canola	Potato	Sprinkler	Gravity	Sub-irrig
			SW	26,31	44			44					44			24	20	
			SE	27,31	22	73		95				73	22			95		
		28	NE	25,30	96			96		81						30	66	
			NW	24,30	130			130		80			50				130	
			SW	24,31	160			160		16			28		116	116	44	
			SE	25,31	90			90							90	90		
		29	NE	23,30	130			130					130				130	
			NW	22,30	160			160					160				160	
			SW	22,31			30	30					30					
			SE	23,31			120	120					120					
		30	NE	21,30	46	35		81		46	35					81		
			NW	20,30	70	20		90		25			20		45	70		20
			SW	20,31	35			35							35	35		
			SE	21,31	56			56							56	56		
		35	NE	29,32	75			75				45	30			75		
			NW	28,32	140			140		80		60				140		
			SE	29,33	105			105				105				105		
		36	NE	31,32	73			73					73			73		
			NW	30,32	100			100		40			60			100		
			SE	31,33	55			55					55			55		
			SW	30,33	90			90				90				90		
		31	SE	33,33	134			134					134			134		
			SW	32,33	0			0					0			0		
2S	21E	1	NE	31,34	80			80					80			80		
			NW	30,34	60			60			60					60		
		6	NE	33,34	90			90					90			90		
			NW	32,34	120			120					120			120		
			SE	33,35		82		82				82				82		
			SW	32,35	30			30				30				30		
				TOTA	13269	15178	6536	34983	413	10571	559	6824	15006	248	1372	21223	5865	1466

Total Area	34983
total irrigated area	28447
Dry Area	6536