

Colorado Division of Water Resources



Elkhead Creek Reservoir Spillway

2007

2007 Annual Report

Water Division 6

**Yampa, White and
North Platte River Basins**

**Erin C.H. Light
Division Engineer**

TABLE OF CONTENTS

Water Year 2007

Introduction	1
Basin Hydrology.....	1
Water Administration.....	4
Compacts and Inter-State Agreements.....	9
Dam Safety	10
Hydrographic Program.....	12
Ground Water and Well Permitting	17
Water Records and Information	17
Water Court Activities	18
Involvement in Water User Community.....	18
Issues and Achievements	19
Workload.....	23
Personnel.....	24
Training.....	24

Water Year 2008

Key Objectives.....	25
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Water Administration Data Summaries

Reservoir Storage Summaries.....	Appendix A
Water Diversion Summaries	
Water Diversions to Various Uses	
Transmountain Diversions	
River Calls	Appendix B
Organizational Chart.....	Appendix C
Office Administration and Workload Measures	Appendix D

Introduction

This report summarizes the activities of the Division 6 office of the Colorado Division of Water Resources in 2007. It presents an overview of the administration activities that took place during both the calendar and irrigation year 2007 and statistical data for both the water and irrigation year 2007. Please direct any questions regarding the information in this report to the Division 6 office in Steamboat Springs.

Water Year 2007

Basin Hydrology

Snow Pack

In water year 2007 the snow pack or snow water equivalent (SWE) was initially above average, but quickly changed by the end of December. As shown in Table 1 the October SWE values were well above average but by December they had dropped to well below average and remained below average for the rest of the season. Warm weather in April and May resulted in early snowmelt runoff, and thus low SWE by the end of May.

TABLE 1

**Snow Water Equivalent as Percent of Average
Water Year 2007**

Drainage	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
North Platte River	182	93	89	72	84	78	64	32
White River	166	104	81	71	82	70	55	36
Yampa River	195	107	94	76	95	80	52	16

Table 2 shows January 1st, March 1st and May 1st runoff forecasts developed by the Natural Resources Conservation Service (NRCS) for selected sites, and the actual runoff as measured at the USGS gauging stations.

TABLE 2

2007 Total Runoff Forecast in 1000's of Acre-Feet

<u>Station Name</u>	<u>1-Jan</u>		<u>1-Mar</u>		<u>1-May</u>		<u>Actual</u>	
	Runoff	% Avg	Runoff	% Avg	Runoff	% Avg	Runoff	% Avg
North Platte nr Northgate (Apr-Sept)	245	91	240	89	155	67	150	43.5
White River nr Meeker (Apr-Jul)	245	84	225	78	135	52	182	66
Little Snake River nr Lily (Apr-Jul)	290	79	250	68	125	40	170	51
Yampa River nr Maybell (Apr-Jul)	860	87	760	77	*	*	566	61

Precipitation

Water year 2007 was relatively dry even though it started and ended well. May and June experienced slightly below average temperatures with significantly below average precipitation. The rest of the summer however had significantly above normal precipitation. Based on the precipitation recorded at the NRCS Snotel sites, October precipitation was 166% of average for all three basins combined (North Platte, White and Yampa Rivers). However, by December the cumulative precipitation was 94%, with December alone being 65% of average. By June the cumulative precipitation for all three basins was 79% of average. At the end of the water year, the total annual precipitation was 88% of average. Table 3 shows the monthly precipitation data for the towns of Walden, Meeker and Steamboat Springs and Table 4 shows the NRCS Snotel site precipitation for all three basins combined. As shown, the precipitation observed at Walden, Meeker and Steamboat Springs does not correlate with the precipitation observed at the Snotel sites. Because of the potential variability in precipitation in mountainous regions, this is not alarming.

Table 3
Monthly Precipitation Data for Selected Sites
Water Year 2007

Site	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Walden													
(in)	1.86	0.65	0.66	0.81	0.49	0.68	0.93	0.95	0.29	2.01	1.78	2.24	13.33
% avg	209	78	112	131	80	83	87	63	27	157	170	185	116
Meeker													
(in)	4.02	1.16	0.94	1.35	*	0.98	0.84	1.23	0.11	0.88	2.67	3.86	13.44
% avg	244	105	104	169		73	60	82	11	68	214	322	134
Steamboat													
(in)	*	2.03	1.94	1.24	3.14	1.63	1.69	1.37	1.46	2.47	2.37	4.34	22.21
% avg		86	82	48	146	80	73	59	102	169	162	252	107

* - Data Unavailable

Monthly Precipitation Data for Selected Sites
Calendar Year 2007

Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Walden													
(in)	0.81	0.49	0.68	0.93	0.95	0.29	2.01	1.78	2.24	1.08	0.18	1.16	14.56
% avg	131	80	83	87	63	27	157	170	185	121	22	197	123
Meeker													
(in)	1.35	*	0.98	0.84	1.23	0.11	0.88	2.67	3.86	2.23	0.23	3.12	15.54
% avg	169		73	60	82	11	68	214	322	135	21	347	118
Steamboat													
(in)	1.24	3.14	1.63	1.69	1.37	1.46	2.47	2.37	4.34	2.67	0.52	4.10	24.14
% avg	48	146	80	73	59	102	169	162	252	139	22	173	112

Table 4

**Basin-Wide Precipitation Data from NRCS SNOTEL Sites
Water Year 2007
(Percent of Average)**

<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>% of Avg</u>
166	74	65	53	109	68	66	56	65	87	113	207	88

Stream Flows

The stream flows on the North Platte River near Northgate dropped to as low as 32% of average for the month of May and was highest in August at 226% of average. The total runoff for the water year at this site was 74% of average and the peak gage height occurred on March 21, 2007 but was affected by ice-jams and no discharge was determined. Historically, the peak has occurred on May 25 with an average peak discharge of 3,082 cfs.

Stream flows on the White River below Boise Creek dropped as low as 40% of average in July and were highest in April at 112% of average. The total runoff for the water year was 72% of average. As shown in Table 5, the peak discharge occurred on May 16, 2007 at a value of 2,040 cfs. Historically, the peak has occurred on May 28 with an average peak discharge of 3,232 cfs.

Stream flows on the Little Snake River near Lily dropped to as low as 5% of average in July and were highest in March at 194% of average. The total runoff for the water year was 63% of average. As shown in Table 5, the peak discharge occurred May 16, 2006 at a value of 2,410 cfs. Historically, the peak discharge has occurred on May 24 with an average peak discharge of 5,253 cfs.

Stream flows on the Yampa River near Maybell dropped to as low as 21% of average in July and were highest in March at 232% of average. The total runoff for the water year was 73% of average. As shown in Table 5, the peak discharge occurred on May 16, 2006 at a discharge of 6,640 cfs. Historically, the peak has occurred on May 25 with an average peak discharge of 10,301 cfs.

Table 5

Total Runoff for Water Year 2007

Station Name	Total Flow (AF)	Average (AF)	% of Average
North Platte River near Northgate	226,380	307,290	74
White River below Boise Creek	381,180	526,210	72
Little Snake River at Lily	255,210	405,940	63
Yampa River near Maybell	814,870	1,118,430	73

Peak Flow Rate and Date of Occurrence

Station Name	Peak Flow (cfs)	Date
North Platte River near Northgate	Ice Jam	March 21, 2007
White River below Boise Creek	2,040	May 16, 2007
Little Snake River at Lily	2,410	May 16, 2007
Yampa River near Maybell	6,640	May 16, 2007

Water Administration

Despite the low snow pack, the three water basins did not experience an increase in water administration resulting from calls being placed. However, there was an increase in administration as a result of water being released from the new enlargement of Elkhead Creek Reservoir. Our office was responsible for protecting these releases as they passed downstream. Appendix B lists the calls that occurred in the various water districts.

Yampa and Green River Drainages

The Yampa River drainage encompasses Water Districts 44, 54, 55, 57 and 58 and the Green River drainage encompasses Water District 56. In irrigation year 2007, water administration occurred within the Upper Yampa River Basin (Water District 58) on Bear River, Middle and South Hunt Creeks, Willow Creek (minimum in-stream flow) and Soda Creek. In the middle region of the Yampa River Basin (Water Districts 44 and 57), water administration occurred on Trout Creek, Fortification Creek, Little Bear Creek of Fortification Creek, Morapas Creek and Deer Creek. In Water District 56, a call was placed on Pot Creek of the Green River, but was never administered.

Oak Creek

There were no calls on Oak Creek in 2007. The Rich Ditch, which imports water from Trout Creek to Oak Creek, was regulated because of a call on upper Trout Creek. Oak Creek is usually water short after the runoff is gone unless it can import water from Trout Creek. Developers along lower Oak Creek have filed for water rights and a plan for augmentation for several new subdivisions. The augmentation water will consist of historic consumptive use credits from irrigated lands and the enlargement of an existing reservoir.

Yampa River from its Confluence with Oak Creek to Milner

The Yampa River from Oak Creek to Milner did not experience enough shortages to result in a call, but the City of Steamboat Springs discouraged tubers from floating through town when flows were low in July and August. Amounts were below the 2003 recreation in-channel diversion (RICD) water right for part of that time. However, appropriate measuring devices have yet to be installed by the City that would enable them to place a call.

Soda Creek, Gunn Creek, Spring Creek and Butcherknife Creek

A call was made on Soda Creek by the Soda Creek Ditch from September 10th through 30th. Administration for this call only affects two structures; however stream flows varied significantly with occasional heavy rains making administration more difficult.

Tributaries of the Elk River (Farnsworth, Trull, Hot Springs, Salt, Mad, Big and Deep Creeks, and Cottonwood Gulch)

Aside from the minimum instream flow call placed by the Colorado Water Conservation Board on Willow Creek of the Elk River, there were no calls on any tributaries of the Elk River in 2007. However, all of the tributaries were water short in late July and August. There have been no significant changes in water use on these tributaries in recent years. Cottonwood Gulch has a new development planned and will rely on a lined storage pond which must fill early in the year. Deep Creek, though considered over-appropriated, has not been under administration since 2002.

Hayden area: Dry Creek, Grassy Creek & Sage Creek

There have not historically been calls on Dry Creek, Grassy Creek, Sage Creek or other tributaries in the Hayden area, but they are always water short after the run-off is gone. Water shortages continued in 2007. Recent changes that will impact water use in the area are a shift in location of Seneca's coal mining operation and heavy residential growth in the Hayden area.

Seneca completed strip mining on their Grassy Creek and Sage Creek areas in 2006 and shifted their activity to lands tributary to Dry Creek. Because of this shift, almost no water is being used from

Grassy Creek or Sage Creek. Seneca has also moved their headquarters to the old Hayden Gulch terminal on Dry Creek. The current mining operations do not have a significant impact on water use, but Seneca does own four irrigation reservoirs (J C Temple, Emrich, Cottonwood and Greasewood Flat) that control water supplies on the lower end of Dry Creek. Dry Creek flows above these reservoirs were 0.02 cfs in July and 0.00 in August and September. No imminent changes are expected in the way these reservoirs are operated.

The residential growth around Hayden is just starting to impact Dry Creek. Three large subdivisions have begun construction on tributaries of Dry Creek. The primary source will be wells on Dill Gulch. The developers have also filed on numerous springs and small ponds, but their yield will be minimal. Extensive plans have been made for piping the well water to storage and use on several tributaries. The subdivisions could serve over 3,000 residences at build out.

Smuin Gulch & Buchanan Gulch

Neither Smuin Gulch nor Buchanan Gulch had any water available except stock water as early as April.

Yampa River – Milner to Elkhead Creek

There were no shortages of water or curtailments on the main stem of the Yampa River in Water District 57. Most structures push up temporary dams to back water up to their headgates or switch to pumps when the river drops by July.

Fish Creek of Trout Creek

The annual summer-long call on West Fish Creek by Highland Ditch was not placed this year. Yoast Feeder Ditch, which diverts water above Highland Ditch, filled its respective reservoir by late May and thus late summer diversions were not made. There was little water available after the spring run-off, but it prompted no calls this summer. Twentymile Coal owns most of the rights on the lower half of Fish Creek and has not used water in recent years.

Trout Creek

There was a call on upper Trout Creek for the second time in 5 years that lasted from the first week of July into August. This call was partially prompted by a neighbor dispute. Water supplies were not unusually short, but the call did impact transdistrict diversions into Oak Creek in Water District 58 by the Rich Ditch. The USFS also placed two Cease and Desist orders on the Last Chance Ditch during the summer – one for cleaning or enlarging the ditch on USFS property without permission and one for installing a diversion structure on USFS property without permission. Neither order had an impact on administration of upper Trout Creek.

Most of the water rights on the middle portion of Trout Creek were owned by P&M Coal Company. These surface land and water rights have been divided and sold, which will probably lead to more aggressive diversions than in the past.

Twentymile Coal owns most of the water rights on the lower end of Trout Creek. They have sold much of the land but kept the water rights and are leasing them back to the new landowners. A number of these ditches were cleaned and repaired by the new owners in 2007. Substantially more water is expected to be used next year. Any increased use could prompt a call on the lower end of the creek resulting in the administration of Twentymile Coal's plan for augmentation, which has never been implemented. Such a call would also include regulation of the water rights owned by Deerwood Ranches and Creek Ranch. These developments presently have a plan for augmentation pending in court.

Elkhead Creek and the Yampa River Downstream of its Confluence

As a result of low flows on the Yampa River through the critical habitat reach (Yampa River from Craig to the Green River at Echo Park), water was released from Elkhead Creek Reservoir for in-river fish habitat and enhancement uses, and use in furtherance of the Upper Colorado River Basin Fishes Recovery Program. Releases were made from Elkhead Creek Reservoir starting August 1 at a rate of 40 cfs and ran until August 9 and then resumed on August 13 at the rate of 46 cfs. Varying releases were made until September 20 when rain events resulted in increased flows in the Yampa River and the flows no longer needed to be supplemented. Approximately 5000 acre-feet were released and protected through the critical habitat reach by regulating all diversions. Below is a picture of the Maybell Canal which diverts water from the Yampa River within the critical habitat reach and flumes it back across the river before being put to beneficial use.



White River Drainage

Administration in Water District 43 was confined to the Piceance Creek drainage that ran from the end of May through the end of the irrigation season. As usual, this basin experienced a very dry year and given the oil and gas activity occurring within the basin, many difficulties were encountered with administering the call. One big continuing problem in the basin is water hauling trucks pumping out-of-priority from Piceance Creek or one of its tributaries. Energy exploration continues to grow in the Piceance and Yellow Creek basins at an ever-increasing pace. Many ranchers have sold their land and water rights to energy companies and these water rights have been changed to include industrial and augmentation uses, among others. The lands are then leased back to the ranchers whereby they can continue ranching operations and irrigation practices until such time that the energy companies need the water for other uses.

Sufficient water on the main stem of the White River and on the major tributaries upstream of Meeker satisfied the needs of the water users throughout the year.

North Platte Drainage

Warm temperatures in North Park from March 1 through April 8 melted much of the low snow and Walden Reservoir filled on April 2. However, cold temperatures from April 9 through April 14 slowed the run-off. The three gauging stations operated by our office were opened by April 1, about one week earlier than normal. Temperatures varied from mid-April to June with snow falling as late as June 8 when a daily high temperature of 39 degrees occurred.

The North Platte River drainage experienced some water administration but not as much as in recent years. Grizzly Creek ran low most of the summer but as usual, the water users on the creek were able to work together and avoid a call on the system. The Michigan River fared relatively well with administration occurring only from April 25 to April 29. Throughout the summer, water was low on the Michigan River; however, a call was never placed as a result of Walden Reservoir having to be nearly completely drained in order to replace the outlet vent pipe. This water was available for the senior ditches, which typically place a call. The main stem of the Illinois River was on call from June 23 to August 6. Rock Creek and Spring Creek, tributaries of the Illinois River, had their usual calls on the system. Outside of the Michigan and Illinois River basins, the only tributary that was subject to administration this year was Newcomb Creek of Chedsey Creek of Little Grizzly Creek of the North Platte River, which was on call from June 21 to July 15.

Compacts and Inter-State Agreements

Following is a description of the interstate compacts and agreements administered by Division 6.

Upper Colorado River Compact

Under Article XIII (a), the State of Colorado will not cause the flow of the Yampa River at the Maybell gage to be depleted below an aggregate amount of 5,000,000 acre-feet for any period of ten consecutive years. The annual runoff for water year 2007 was 815,200 acre-feet and for the period 1998 to 2007, the aggregate flow at the Maybell gage was 9,533,600 acre-feet.

The Little Snake River is administered jointly with the State of Wyoming during times of shortage pursuant to Article XI of the Upper Colorado River Compact. There were no calls placed on the Little Snake River in 2007.

Our office continues to work with the State of Wyoming on updating the combined administration list for the Little Snake River. This effort has stalled and is in the hands of Wyoming for their final approval. The administrative schedule developed many years ago has proved to be sufficient for use in recent administration and will continue to be used until such time that the revised one is finalized and approved.

North Platte River (Nebraska v. Wyoming, U.S. Supreme Court Decree)

Under the North Platte River Decree, Colorado is limited to a total of 145,000 acres of irrigation, no more than 17,000 acre-feet per year of storage for irrigation purposes and no more than 60,000 acre-feet of transmountain diversions in any period of ten consecutive years from the North Platte drainage of Colorado. In water year 2007, a total of 111,879 acres were irrigated and 13,738 acre-feet were stored for irrigation use. The amount of irrigated acreage and the amount of water stored for irrigation purposes was up from 2006 by approximately 10,500 acres and 5,800 acre-feet, respectively. Transmountain diversions out of the basin totaled 5,736 acre-feet - up significantly from the previous year. The ten-year total transmountain diversion out of the basin was 42,709 acre-feet. None of the limitations of the Supreme Court Decree were exceeded in 2007.

A Division 6 representative attended the spring meeting of the North Platte Decree Committee held in April 2007, but was unable to attend the meeting held in October 2007.

Pot Creek

Pot Creek is a small tributary to the Green River; the headwaters of which are in Utah and enters the Green River in Colorado. Pot Creek water is apportioned among the users of Utah and Colorado under a Memorandum of Understanding (MOU) last updated and signed by the State Engineers of Utah and Colorado on March 1, 2005. For many of the past several years, little if any water was available for Colorado users. In 2007 none of the three major reservoirs in Utah filled. Offield Reservoir located in Colorado had filled prior to May 1 and Dry Lake Reservoir also located in Colorado was storing water but did not fill. No releases were made this year from the Utah reservoirs to satisfy Colorado water users. A call was placed on Pot Creek by a Colorado water user in early May but was never honored



since the water user entered into an agreement with Utah Division of Wildlife Resources whereby they could store his water rather than release it. Pot Creek at the state line gage ran from March 7 to March 17 and March 27 until March 31. The flow at this site peaked on March 12 at a discharge of 8.5 cfs. The annual total flow past the gage for water year 2007 was 59 acre-feet.

The provisions of the MOU dated March 1, 2005 concerning the installation of headgates and/or measuring devices were waived for the 2005 and 2006 irrigation seasons and again in 2007 to allow for further engineering and development of cost estimates of measuring devices to be installed above Calder Reservoir, as required by the MOU.

Dam Safety

In Division 6, final construction inspections were completed on four projects with three receiving final acceptance and one receiving conditional acceptance. The fate of another dam constructed without approved plans is still to be decided. Elkhead Creek Dam near Craig received the conditional acceptance and subsequently filled and spilled. This enlarged reservoir provides an additional 12,000 acre-feet of storage to the lower reaches of the Yampa River drainage. Continued planning work was completed by the Upper Yampa Water Conservancy District to determine the feasibility of raising the spillway crest of the Stagecoach Dam by four feet to increase storage on the upper reach of the Yampa River; however, the Federal Energy Regulatory Commission (FERC) has denied the permit for construction placing the project on hold. The Colorado Division of Parks began final design for repairs to the high hazard Lester Creek Dam that holds Pearl Lake in the Elk River drainage with construction scheduled for 2008. The new boom in energy development in the Piceance Creek Basin in the White

River drainage continues to spawn proposals for new dams associated with energy development needs.

In Water Districts 50 and 51 (Division 5), construction was accepted on two repair projects; one low hazard and one significant hazard dam. Unfortunately, the significant hazard dam developed new sinkholes after the first fill following the repairs. Another problem low hazard dam was repaired and lowered to non-jurisdictional size, and the majority of the rebuild was completed for a breached low hazard dam. Construction was also substantially completed by the Grand County Water and Sanitation District to convert their decommissioned wastewater treatment lagoons to augmentation reservoirs along the Fraser River. Preliminary plans were reviewed for another breached dam waiting to be repaired by the owner.

Safety inspections of existing dams in the State take place at periodic intervals based on the hazard class of each dam and overall "health" of a dam, determined through a risk based evaluation. During 2007, the Division 6 Dam Safety Engineer inspected ten of thirteen high hazard dams (including one FERC regulated dam), seven of fourteen significant hazard dams, and twenty-three of over one hundred low hazard dams in accordance with a long range inspection schedule. In addition, FERC engineers completed inspections on both of the high hazard, power generating dams in Division 6. Due to their "health" rating, the remaining two high hazard dams were not scheduled for inspections until 2008. In support of Division 5, two of seven high hazard dams, eight of eleven significant hazard dams, and five of twenty-four low hazard dams were inspected according to the long range inspection plan for that division. Three of the remaining high hazard dams belong to the Bureau of Reclamation and are inspected by that Federal agency, one was inspected by FERC, and the last was postponed due to the "health" of the dam.

Several safety problems were found at some of the significant and low hazard dams in Division 6 during inspections in 2007. A restricted significant hazard dam was found to be full and immediate action was taken by the Division Engineer and the Water Commissioner to lower the water level. Another significant hazard dam showed increased seepage and the new owner was asked to have his engineers investigate repairs. A zero storage restriction was issued for one low hazard dam due to a missing gate, a slide on the downstream slope, and a lack of maintenance by the owner. Another owner repaired a non-jurisdictional dam without notice possibly creating a jurisdictional structure and was issued a breach order until the repaired structure could be surveyed. Of the 23 low hazard dams inspected, eight were rated Unsatisfactory, twelve were rated Conditionally Satisfactory, and three were rated Satisfactory. Three owners completed repairs in 2007 to bring their dams up to a satisfactory rating and one owner completed repairs only to find new seepage areas along the stream

banks below the dam. Most owners lack the necessary resources to hire an engineer and do the repairs.

During 2007 there were 22 applications for non-jurisdictional dams, and six livestock water tanks permits were processed. So far, the construction of numerous non-jurisdictional dams has not caused any significant water administration issues, but some areas around the Division are experiencing a proliferation of these small dams that could result in future problems. All non-jurisdictional dams are required to have adequate outlet pipes capable of passing inflow.

Hydrographic Program

Thirty-seven active stream gage sites are currently operated in the Yampa, White, and North Platte River basins by Division 6 and the USGS. Division 6 operates thirteen of these gage stations, eleven of which are equipped with satellite monitoring. Of these, three transmit reservoir water surface elevations, seven transmit stream flow gage heights, and one transmits both parameters. The remaining two gages are equipped with a chart recorder and/or a data collection platform (DCP) to record gage heights.

In 2001, the USGS operated 33 stations in the Yampa, White, and North Platte basins, as compared with the 24 stations they are currently operating. Many of the gage stations were discontinued due to lack of available funding for the USGS stream flow program. Reduced funding has resulted in cooperators either paying more for the operation of the gages or totally discontinuing their operation.

In addition to operating and maintaining the gage sites, the Division 6 Hydrographer, in coordination with the Water Commissioners, conducts flow measurements on ditches, reservoir releases, and streams. Ninety-one measurements were taken at the gage sites in water year 2007 and approximately 25 measurements were taken on ditches, reservoir releases, and other streams. Water year 2007 hydrographic records will be published for seven sites: Walton Creek near Steamboat Springs, Yampa River above Lake Catamount, Michigan River near Meadow Creek Reservoir, Michigan River at Walden, Illinois River near Rand, Williams Fork at Mouth near Hamilton, and Pot Creek at Stateline.



Yampa River above Lake Catamount Gage Station in winter

Division 6 currently has eight gage stations equipped with high data rate (HDR) equipment. HDR Sutron SatLink2 data loggers were installed in 2007 at the Illinois River near Rand, Steamboat Lake, and Willow Creek below Steamboat Lake sites. The Pearl Lake and Walton Creek near Steamboat Springs sites are scheduled for upgrade to HDR in 2008.



Steamboat Lake

During 2007, Division 6 conducted inspection, maintenance, and refurbishment activities at several sites. In July 2007, a muffler was installed on the Accubar bubbler at the Williams Fork gage station to protect the bubbler orifice from sediment build-up. The bubbler had been plagued with ice and sediment issues throughout much of water year 2007. Because of the sediment laden nature of the river and unusually muddy conditions this year, the bubbler muffler continued to experience problems in late July and early August. The bubbler muffler was subsequently removed from the sediment; filled with pea gravel; re-aligned to the center of the channel, below the wire weight gage mounted on the bridge; and set at an angle to the flow path.



Muffler Installation at the Williams Fork Gage Station

The existing 12-inch stilling well on Willow Creek below Steamboat Lake was replaced and a new doghouse shelter installed in September 2007. The new well and shelter better accommodate the shaft encoder and other gage equipment. Two intake pipes were installed, extending from the well to the channel. In addition, new HDR DCPs were installed at the Willow Creek and Steamboat Lake stations and the existing radio connection between the sites was removed, establishing Willow Creek below Steamboat Lake as an independent gage station.



Gage Station Construction at Willow Creek below Steamboat Lake



Improved Gage Station at Willow Creek below Steamboat Lake

In September 2007, a new stilling well, doghouse shelter, and intake pipes were installed at the Michigan River near Meadow Creek Reservoir gage station, completing the station upgrades initiated in 2006. In addition, the Illinois River near Rand gage station was totally refurbished and upgraded. A new HDR DCP, encoder, stilling well, enclosure, and intake pipes were installed.



Upgrades to the Michigan River near Meadow Creek Gage Station



HDR DCP Installed at the Illinois River near Rand Gage Station

During the summer of 2007, the Division 6 hydrographer worked closely with the District 44 Water Commissioners on the Elkhead Creek Reservoir release for the Upper Colorado River Basin Fishes Recovery Program. Data collected during the release is still being compiled and reviewed by participating agencies and a transit loss study has been initiated.

Ongoing and planned gage station projects for 2008 include the following: continued upgrading to HDR DCPs (Pearl Lake, Walton Creek near Steamboat Springs, and Lake Catamount Spillway/Outlet); replacing the existing HDR DCP at Pot Creek with a new generation HDR DCP; installing solar panels/satellite telemetry at Walton Creek near Steamboat Springs and removing the condemned cableway at this station; replacing existing bubblers with constant flow bubblers at Steamboat Lake, Pearl Lake, and Williams Fork gage stations; and miscellaneous minor station upgrades and refurbishments.



Condemned Cableway at the Walton Creek Gage Station

In addition, Colorado Department of Transportation (CDOT) is planning to replace the bridge at the Michigan River at Walden site and will have to replace the gage station at this location. This project may not occur until 2009, depending upon CDOT's schedule.

Potential additional projects for 2009 include: reinstating the satellite telemetry system/solar panel at the Bear River below Bear Lake site and upgrading this site and the Yamcolo Reservoir gage station to HDR DCPs.

Groundwater and Well Permitting

The Division continues to assist the public with questions and concerns relating to the drilling of wells and completing well permit applications. The Division issued 197 exempt well permits in 2007 versus 209 permitted the previous year. A considerable amount of time is spent educating realtors and water users about the statutes concerning the use of groundwater in Colorado.

This year Willow Creek of the Elk River of the Yampa River upstream of its confluence with Beaver Creek was designated as over-appropriated, thus changing well permitting requirements. All future non-exempt well permits will now require a Court approved Plan for Augmentation and exempt wells permitted on less than 35 acres are limited to in-house use only within one single family dwelling.

Water Records and Information

Summaries of diversion records for irrigation year 2007 are shown in Appendix A. These numbers show that the total diversions for all uses were 1,665,301 acre-feet, which is up 97,427 acre-feet from 2006 and up by 85,203 acre-feet from 2005. Water Districts 44 and 58 experienced decreased in total diversions while the other six water districts experienced increases from the previous year. The most significant increase occurred in Water District 47 of 91,185 acre-feet. This increase was primarily for irrigation use for the Division as a whole. Both diversions for irrigation and the number of acres irrigated were up from the previous year with diversions up by 37,673 acre-feet. The number of visits to structures by the Water Commissioners was up by approximately 5 percent. As water administration and other demands on the Water Commissioners increases, the reliance of user-supplied data increases.

The water rights database and diversion records are maintained in Hydrobase. Ownership, decreed water rights, structure information, and structure comments are updated on a regular basis and distributed to all of the Water Commissioners semi-annually. Well data is updated in Well Tools, and dam information is kept up-to-date in various dam safety databases. Access to information through Hydrobase and Well View are used extensively when responding to inquiries from the public.

This office has maintained a lysimeter site on the Colorado Yampa Coal Company property since 1993 and a site on the North Park Wildlife Refuge since 2000. Consumptive use data is calculated using data collected at the two lysimeter sites for the various drainage basins. This data is sometimes used when reviewing water court applications for changes of water rights, as well as for many other purposes. The 2007 lysimeter report is available from the Division 6 office upon request.

Water Court Activities

Water Court activity increased in Division 6 Water Court in 2007. There were 122 new cases and 11 amended cases filed in Division 6 Water Court in 2007, compared to 86 new and amended applications combined filed in 2006. Nineteen new cases and 0 amended cases were filed in Division 5 Water Court compared to 19 new and amended applications combined filed in 2006. The Division Engineer prepared 112 Recommendations of the Division Engineer/Summaries of Consultation: 88 for the Division 6 Water Court and 24 for the Division 5 Water Court. Division 6 filed 3 statements of opposition in 2007 and protested one Ruling of the Referee. No cases went to trial in 2007. All correspondence with the water court, attorneys and applicants is electronically filed through Lexis Nexis.

This office continues to have a good working relationship with both the Division 5 and 6 Water Courts. Meetings are held once every three or four months between this office and the Division 6 Water Judge, Referee and Clerks to discuss how things are operating between the Court and the Division of Water Resources and status of particular cases. We continue to review new Water Court applications prior to publication in the resume to assure that applicants have provided all the required information. This activity helps save republication costs for the applicants. We also review the majority of the Rulings of the Referee for accuracy before they are finalized to assure that they incorporate or taken into account the concerns raised in the Recommendation of the Engineer/Summary of Consultation. We continue to meet with the Water Referee in Division 5 on a monthly basis via telephone conferencing to discuss all applications prior to submitting Recommendations of the Division Engineer/Summary of Consultations. This procedure works very well and allows the comments of the Water Referee to be included in our Recommendations of the Division Engineer/Summary of Consultations.

Involvement in the Water User Community

The Division staff continues to assist the public in preparing Water Court and well permit applications, provide water right and diversion information, assist water users with the proper selection and installation of water measuring devices, and provide assistance to dam owners with completing Notices of Intent to Construct Non-Jurisdictional Dams and Emergency Action Plans. Our field office in Craig continues to be a vital aspect of our public relations. The Craig office likely handles as many walk-ins as the Steamboat office.

Following is a list of meetings attended by Division staff in 2007.

- Annual meeting of the Pot Creek Distribution System
- All meetings held by the Upper Yampa Water Conservancy District
- Spring meeting of the North Platte Decree Committee
- Bear River Irrigators annual meeting
- Stillwater Ditch Company annual meeting
- Spoke at water rights education class held at Colorado Mountain College
- All of the HB1177 Roundtable meetings for both the Yampa/White and North Platte
- Two employees attended the CWOA annual meeting in Durango
- Spoke at Deep Cut Irrigation Ditch Company and Soda Creek Ditch Company meetings

Appendix D summarizes other activities of the office staff and Water Commissioners of the Division.

Issues and Achievements

The construction of the enlargement of Elkhead Creek Reservoir has been completed and the reservoir was filled in April 2007 as shown in the following picture. The total enlargement pool is approximately 12,000 acre-feet. Five thousand acre-feet of this enlargement is designated for in-river fish habitat and enhancement uses and use in furtherance of the Upper Colorado River Basin Fishes Recovery Program in the critical habitat reach of the Yampa River for four endangered fish species. An additional 2,000 acre-feet of water is available through a 20-year lease with the Colorado River Water Conservation District (River District). Water not dedicated to the Fishes Recovery Program is available for contract through the River District. Water was delivered to and through the critical habitat reach in August and September of 2007.



In order for this office to protect the water released from Elkhead Creek Reservoir, in August of 2006, over sixty letters requesting the installation of suitable and proper headgates and measuring devices were sent to water users on Elkhead Creek below Elkhead Creek Reservoir and on the Yampa River from its confluence with Elkhead Creek to the Green River. Prior to sending these letters this office determined that over ninety diversions did not have suitable and proper headgates and/or measuring devices. Thirty-three orders were issued in July 2007 to those water users who had not installed suitable and proper headgates and/or measuring devices. In November twenty-four extensions of time were granted to those water users that had still not installed these devices. The extension of time gives the water users until June 30, 2008 to install the headgates and/or measuring devices. After this time, if devices have not been installed further enforcement action will be taken.

Administrative procedures were developed in 2007 to deliver water released from Elkhead Creek Reservoir past numerous structures and through the critical habitat reach. Many measurements were taken by this office on Elkhead Creek and the Yampa River to assist with determining transit losses during the release of reservoir water in August and September. At this time, a standard transit loss value to be assessed for each release has not been determined or agreed upon. As previously mentioned, 5000 acre-feet were released for in-river fish habitat and enhancement uses, and use in furtherance of the Upper Colorado River Basin Fishes Recovery Program and the River District is likely to apply to make this amount absolute in Water Court in 2008.

Energy development in the Piceance Creek basin of the White River still is and will continue to present water administration challenges for years to come. Piceance Creek is heavily over-appropriated and water short. The major energy companies have purchased many of the senior water rights and have obtained decrees for changes of use and plans for augmentation, and exchange. Many of these decrees are complicated and the fact that there are more being applied for in court that can be intertwined with one another, complicates matters even further. Understanding how these decrees interrelate and the proper administration of them during periods of shortage, is a task that will have to be undertaken in the near future. Because the energy companies contract with other companies based outside of Colorado, this office has spent a considerable amount of time educating these contractors as to what they can and cannot do when it comes to water usage. A common occurrence that causes considerable problems with water administration is water hauling companies pumping water from Piceance Creek while under administration without a water right and whenever they want, including throughout the night and under our radar.

High Savory Reservoir in Wyoming was completed in 2004 for the purpose of providing additional water for irrigation purposes during times of the year when the natural flow in the Little Snake River is

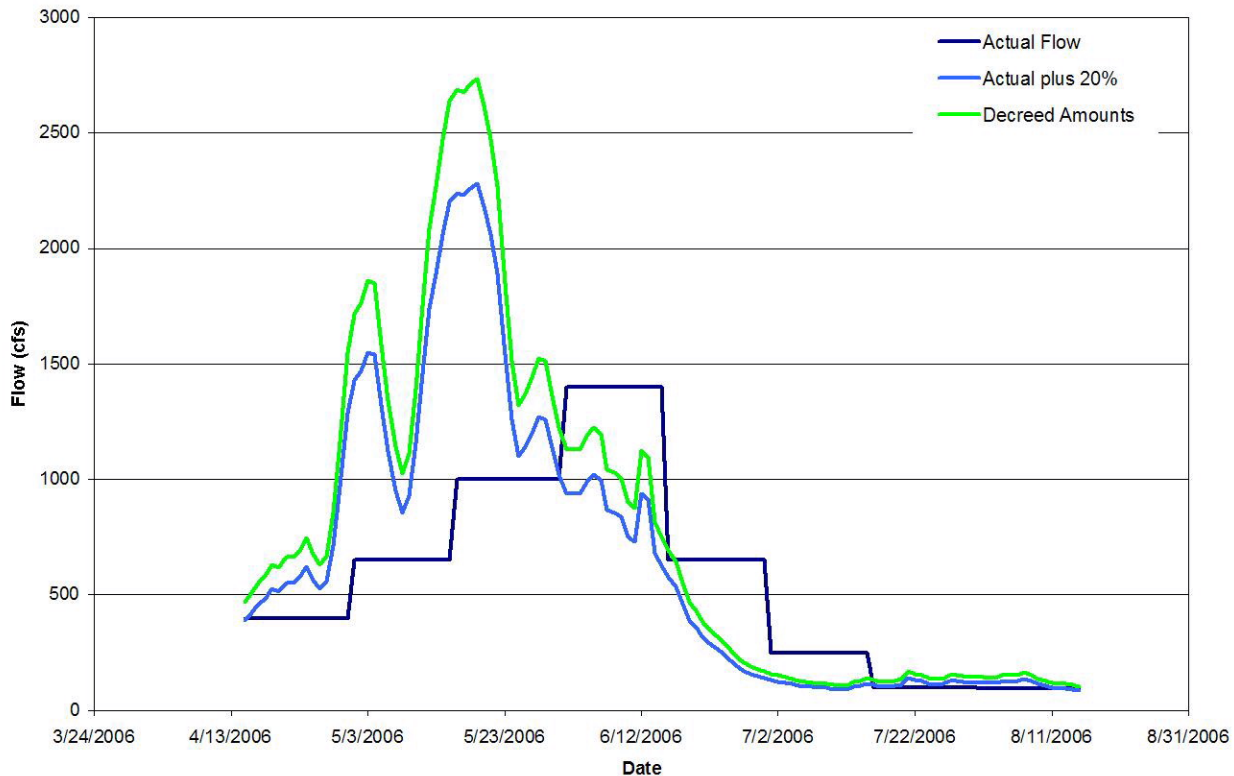
insufficient. Reservoir water was released to those water users holding contracts for such water for the first time in 2007.

In the spring of 2006, the Yampa River upstream of the City of Steamboat Springs recreational-in-channel-diversion (RICD) structures was designated as over-appropriated. This designation significantly changed well permitting in this area. As a result of this designation, the Upper Yampa Water Conservation District (UYWCD) filed an “umbrella” plan for augmentation and exchange. The plan is to establish a framework whereby water users can be included directly into a decreed plan for augmentation that uses UYWCD water rights decreed for augmentation use to replace out-of-priority depletions. In addition to the Steamboat Springs and South Routt County areas, the plan is designed to provide augmentation water downstream beyond the RICD structures to the confluence of Elkhead Creek and the Yampa River. This case is scheduled for trial in October 2008.

The Water Court decreed the City of Steamboat Springs RICD in December 2005 and amended it in March 2006. Though there was no call for this water right in 2007, flows in the Yampa River were below the decreed amounts from June 1 through July 15. Specifically, this water right is decreed for 400 cfs from April 15 to April 30, 650 cfs from May 1 to May 15, 1000 cfs from May 16 to May 31, 1400 cfs from June 1 to June 15, 650 cfs from June 16 to June 30, 250 cfs from July 1 to July 15, 100 cfs from July 16 to July 31 and 95 cfs from August 1 to August 15.

Figure 1 shows the average daily flows at the Yampa River at Steamboat Springs gage station, these daily flows plus an additional 20% assumed as being those flows contributing from Soda and Butcherknife Creeks between this gage and the RICD structures, and the decreed flows. Before the City of Steamboat Springs can place a call for their water right, they must first install an additional gage station on the Yampa River at the 13th Street Bridge, or on the two tributaries entering the Yampa River between the Yampa River at Steamboat Springs gage station and the RICD structures. This office declined to submit a bid for the installation, operation and maintenance of a gage on the Yampa River at the 13th Street Bridge. It is our understanding that the City of Steamboat Springs has contracted with the USGS to do this work.

Figure 1
Actual Flows vs. RICD Flows



The UYWCD is in the process of amending their existing FERC license to raise the storage level of Stagecoach Reservoir by four feet which would increase its capacity by 3,185 acre-feet. The present storage capacity of the reservoir is 33,275 acre-feet. The four foot raise would only be in the spillway and not the dam itself. The justification for this additional storage is water supply, recreation use, threatened and endangered fisheries, increased power generation, and compliance with the Colorado Water Supply for the 21st Century Act. In December 2006, the UYWCD submitted an application for Non-Capacity Related Amendment of Minor Hydropower Project License to FERC. Presently, FERC has not approved the project due to a lack of completeness of the UYWCD study. UYWCD is optimistic that their proposed raise will be approved by FERC and they will be able to begin construction before the end of the 2008 water year.

Some of the accomplishments in the past year for Division 6 include:

- Operated within our budget.
- Issued 33 orders and 24 extensions of time for the installation of operable headgates and measuring devices on Elkhead Creek below Elkhead Creek Reservoir and from the confluence of Elkhead Creek and the Yampa River downstream to the Green River.
- Completed a full schedule of dam inspections.
- Met all final deadlines for the submittal of diversion and hydrographic records.
- Completed project to enter decreed structure locations into Hydrobase.

- Completed the tabulation of the Federal Reserved water rights (both appropriative and reserved).
- Tabulated all newly decreed water rights (no backlog). Division 6 has not yet tabulated the majority of the decreed plans for augmentation and exchange plans. Our intention is to wait until Hydrobase has been upgraded to better accommodate the tabulation of these plans.

Workload

As demands for more water and the number of new water users increases, the workload of the field staff is becoming over-whelming. The time demand on the Water Commissioners has gone beyond just water administration to include more field inspections, public relations and educating the public on well permitting, water law and water administration. As for the office staff, the scenario is the same. The hydrographic branch continues to add more gages and be more involved with statewide hydrographic issues and activities. The dam safety branch has an increasing amount of design review and follow-up inspections of aging dams. The Division Engineer continues to review proposed rulings and decrees prior to their signing; provide assistance to the Water Court when needed; review all applications for errors and provide the Water Court with requests for additional information when needed before an application is published; review all engineering reports and provide comments to Denver or applicant's attorney; and write all Recommendations of the Division Engineer/Summaries of Consultation. While a tremendous amount of effort is put into the review of proposed rulings and decrees and engineering reports, in the long run this effort pays off by obtaining decrees that are accurate, assure no injury to other water users, and are consistent with the agency's policies.

As the workload continues to increase, additional staff becomes more necessary. In 2006 this office submitted a decision item to increase the hours for the Water Commissioner covering Districts 54, 55, and 56 and assisting in District 44 with protecting releases made from Elkhead Creek Reservoir. This decision item was passed and included in the 2007 Long Bill. This decision item increased the position from six to nine months. On the Yampa River, growth in the Steamboat Springs area and possible administration of the Steamboat RICD will increase the workload of the office and field staff. In the White River drainage, energy development on Piceance Creek and Yellow Creek will require an ever-increasing presence in the area. The Water Commissioner for this area is currently part-time (0.54 FTE). This office will continue to submit decision items to increase the FTE in these areas.

This office goes to great lengths to maintain an accurate record of the ownership of water rights. Such efforts are on going year round. In addition, office staff has been working very diligently to cleanup the new contact and ownership rolodex in Hydrobase.

The Water Rights Tabulation Committee met in April 2007 with two members of the Division 6 staff attending. Structure and water right modifications have already been recommended and the structure modifications incorporated into Hydrobase. The Committee intends to develop a list of diversion record modifications in 2008. The Committee will continue to meet on a yearly basis to assure that the manner in which water rights and diversion records are being tabulated are consistent throughout the state.

Personnel

In the fall of 2006, Kathy Bower, part-time Water Commissioner for Water Districts 54, 55, and 56, became a full time Water Commissioner for Water District 44 leaving her previous position vacant. Roberta Hume was hired as a temporary employee in May 2007 as Water Commissioner for this area. Because of her obvious passion to learn more about water administration and her enjoyment of the work, she was hired as a permanent employee in October. Roberta is a native of Craig, Colorado. She and her twin brother were the first set of twins born in the Craig Memorial Hospital. She was raised on a 2,000 acre ranch east of Craig where her family raised chickens, cattle, and sheep. Her love for water started with helping her father irrigate. Roberta and her husband purchased the property that her grandparents lost during the depression. On this property they raise mostly cattle, but also Jersey milk cows, chickens, pigs, sheep, and goats.

The Division 6 Water Commissioner of the Year for 2007 was Kathy Bower. Ms. Bower is responsible for water administration on the lower Yampa River, Water District 44. In water year 2007, Ms. Bower completed all of the diversion records for Water Districts 44, 54, 55, and 56; trained the new Water Commissioner and managed the protection of releases made from Elkhead Creek Reservoir. Jerry Oldland, a water user on Piceance Creek of the White River, was recognized as the Division 6 Water User of the Year.

Appendix C shows the organization chart of Division 6.

Training

Listed below are specific training opportunities attended by the staff of Division 6.

- Lynne Peters attended the Program Assistants training meeting in Greeley.
- Two of the Division 6 staff attended the annual CWOA meeting in Durango.
- Jean Ray and Kathy Bower obtained Swiftwater First Responder training and certification.
- Jean Ray attended the annual Hydrographic Branch training.
- Erin Light and Jean Ray attended the first session of Leadership training.
- Lynne Peters started and is presently taking an introductory on-line ESRI ArcMap class.

- John Blair received training on the new Extreme Precipitation Analysis Tool (EPAT).

In addition to these specific training sessions, time is set aside at both the spring and fall Division meetings to provide training to all staff in various areas, such as computer programs and water administration issues.

Water Year 2008

Key Objectives for 2008

Listed below are some of the key objectives for 2008:

- Complete cleanup of owners/contacts in the Hydrobase Rolodex.
- Continue to evaluate the need for additional staffing and develop necessary background information to support decision items for future budget consideration.
- Continue working with State of Wyoming to finalize the revised combined administration list for the Little Snake River and submit it to the Upper Colorado River Compact Commission.
- Cooperate with Wyoming on identifying and implementing strategies for the delivery of reservoir water from High Savory Dam to users on the Little Snake River.
- Cooperate with the Colorado Water Conservation Board, Fish and Wildlife Service, and the Colorado Water River Conservation District with the delivery and protection of water released from Elkhead Creek Reservoir.
- Assure that all headgate and measuring device orders issued in 2007 on Elkhead Creek below Elkhead Creek Reservoir and the Yampa River downstream of Elkhead Creek are in compliance.
- Insure compliance with the provisions of the U.S. Supreme Court decision in Nebraska v. Wyoming.
- Complete all scheduled dam inspections.
- Submit all diversion and hydrographic records on time.
- Operate within our allocated budget.
- Provide resources, training and support to allow our office and field staff to perform their required duties in an efficient and professional manner.
- Provide technical assistance to the Yampa/White and North Platte Basin roundtables.

Appendix A

RESERVOIR STORAGE SUMMARY BY DISTRICT IRRIGATION YEAR 2007

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)		
				MINIMUM	MAXIMUM	END-OF-YEAR
43	3500	WINDY BILL SPRING POND	EAST BEAVER CK	7	7	7
43	3501	LAKE GLORIA	PAPOOSE CK	5	5	5
43	3529	LARSON RES NO 2	TRIBUTARIES-PICEANCE CK	3	10	10
43	3630	BAILEY LAKE RETAIN POND	SWEDE CK	23	23	23
43	3631	BARBOUR POND	MARVINE CK	15	15	15
43	3632	BEAVER LAKE RESERVOIR	VAUGHN CK	66	66	66
43	3633	BIG BEAVER CK RESERVOIR	BIG BEAVER CK	7,237	7,658	7,316
43	3634	BLACK GULCH RES	BLACKS GULCH	41	41	41
43	3636	CABIN LAKE RESERVOIR	VAUGHN CK	16	16	16
43	3638	GOOSMAN RESERVOIR	ELK CK	0	6	*
43	3639	GREGOR RESERVOIR	VAUGHN CK	47	47	47
43	3640	HERRELL FISHPOND	TRIBUTARIES-NORTH FK	3	3	3
43	3642	JOHNNIE JOHNSON RESERVOIR	WHITE RIVER	430	747	430
43	3643	KEYSTONE RES 2	PRICE CK	0	0	0
43	3644	KEYSTONE BEN PRICE RES	PRICE CK	0	100	0
43	3645	KEYSTONE RES 3	DEEP CHANNEL CK	0	31	0
43	3646	LADY LAKE	VAUGHN CK	4	4	4
43	3647	LARSON RES	TRIBUTARIES-PICEANCE CK	1	3	3
43	3649	LUNNEY RESERVOIR	NINE MILE DRAW	82	82	82
43	3651	MCGINNIS MEADOW RES	SOUTH SKINNY FISH CK	87	87	87
43	3652	MCHATTEN RESERVOIR	COAL CK	0	64	0
43	3656	PROCTER RESERVOIR	CURTIS CK	0	7	0
43	3657	SEVENTH LAKE RESERVOIR	VAUGHN CK	32	32	32
43	3658	SHADOW LAKE RESERVOIR	VAUGHN CK	3	3	3
43	3659	SKINNY FISH RESERVOIR	SKINNY FISH CK	301	301	301
43	3660	STUMP LAKE RESERVOIR	VAUGHN CK	10	10	10
43	3662	TRAPPERS LAKE RETAIN PD	NORTH FORK	1	1	1

43	3668	WATKIN RESERVOIR	COAL CK	6	8	6
43	3669	WEST MILLER RESERVOIR	WEST MILLER CK	22	78	30
43	3670	WHITNER FISH POND	UTE CK	0	3	0
43	3671	WILSON RES	EAST FLAG CK	3	57	5
43	3672	WEST STEWART GULCH RES	WEST STEWART GULCH	13	13	*
43	3716	JOY JOY & WATSON RES	FAWN CK	6	6	6
43	3718	PARSONS POND NO. 1	TRIBUTARIES-PICEANCE CK	1	1	1
43	3719	PARSONS POND NO. 2	TRIBUTARIES-PICEANCE CK	0	1	0
43	3722	JESSUP RESERVOIR	PICEANCE CK	3	10	10
43	3723	JONES RESERVOIR	PICEANCE CK	5	5	*
43	3731	STRAWBERRY L&C POND 2	STRAWBERRY CK	0	0	0
43	3732	STRAWBERRY L&C POND 3	STRAWBERRY CK	1	1	1
43	3733	STRAWBERRY L&C POND 4	STRAWBERRY CK	12	12	12
43	3736	WEST MARVINE POND 1	MARVINE CK	2	2	2
43	3737	WEST MARVINE POND 2	MARVINE CK	2	2	2
43	3738	WEST MARVINE POND 3	MARVINE CK	6	6	6
43	3739	DIAMOND M REARING PONDS	MARVINE CK	0	1	0
43	3751	VIOLETT SPRINGS POND #1	YELLOW CK	4	4	*
43	3752	VIOLETT SPRINGS POND #2	YELLOW CK	9	9	*
43	3754	BUBBA'S POND	PICEANCE CK	3	3	3
43	3755	BRUCE'S POND	PICEANCE CK	2	2	2
43	3756	CHASE'S POND	PICEANCE CK	1	1	1
43	3757	COOKIE'S POND	PICEANCE CK	0	2	0
43	3759	DIANE'S POND	PICEANCE CK	1	1	1
43	3761	JODY'S POND	PICEANCE CK	0	4	0
43	3762	JODY'S POND NO. 2	PICEANCE CK	3	3	3
43	3763	MOMO'S POND	PICEANCE CK	2	2	2
43	3766	RUDY'S POND	PICEANCE CK	3	3	3
43	3767	RYAN'S POND	PICEANCE CK	0	4	0
43	3769	BIG LICK RES	BIG BEAVER CK	10	74	20
43	3770	TODD AND TRACY'S POND	PICEANCE CK	2	2	2
43	3771	TURGOOSE POND	PICEANCE CK	0	2	0
43	3772	EXXON LOVE RANCH RES	PICEANCE CK	22	30	30
43	3774	EXXON B&M RESERVOIR	PICEANCE CK	6	25	25
43	3893	MARK RES NO 1	WEST CK	15	15	*
43	3904	BALL LAKE RESERVOIR	MARVINE CK	0	85	0

43	4249	DORTCH POND NO 1	TRIBUTARIES-SOUTH FK	14	14	14	14
43	4250	DORTCH POND NO 2	TRIBUTARIES-SOUTH FK	5	5	5	5
43	4272	JACOBS RESERVOIR	STRAWBERRY CK	2	38	2	2
43	4273	JONES STOCK & FISH POND	TRIBUTARIES-SOUTH FK	0	0	*	*
43	4284	NINE MILE RANCH RES 1	CURTIS CK	41	41	41	41
43	4291	RAINBOW LAKE	NORTH FORK	18	37	37	37
43	4294	RAT MT POND NO 1	MARVINE CK	1	1	1	1
43	4307	TERLEP POND	FAWN CK	7	7	7	7
43	4308	THEOS RES 1	COAL CK	43	51	43	43
43	4320	JENSEN RES 1	CURTIS CK	19	19	19	19
43	4322	JENSEN RES 3	CURTIS CK	1	1	1	1
43	4327	SADDLE HORSE PARK RES	DRY CK	12	12	12	12
43	4351	JENSEN RES 2	CURTIS CK	5	5	5	5
43	4433	TAYLOR DRAW RES	WHITE RIVER	1,535	1,535	*	*
43	4446	JOHNSON POND 15	TRIBUTARIES-PICEANCE CK	3	3	*	*
43	4461	KAWCAK POND NO 1	TRIBUTARIES-NORTH FK	7	7	7	7
43	4463	VANDIVER POND	TRIBUTARIES-NORTH FK	25	25	25	25
43	4497	BLUE MOUNTAIN RES	WOLF CK	15	20	*	*
43	4499	REEVES RES	WOLF CK	20	20	*	*
43	4504	TAYLOR RES	HUNTER CK	10	10	10	10
TOTAL FOR DISTRICT 43				10,356	11,690	8889**	8889**

AMOUNT IN STORAGE (AF)

WD	ID	RESERVOIR	SOURCE STREAM	MINIMUM	MAXIMUM	END-OF-YEAR
44	3675	WYMAN RES	LITTLE BEAVER CK	58	58	58
44	3677	ANDERSON RES	NORTH FK OF ELKHEAD CK	19	95	19
44	3681	BUNKER LAKE RES	BUNKER CK	39	190	39
44	3682	COVE LAKE RES	MORAPOS CK	74	74	*
44	3683	COVE RES	MORAPOS CK	121	121	*
44	3686	DRESCHER RES	BASIN GULCH	132	132	*
44	3688	DUNKLEY DEUBEAU RES	WILLOW CK	2	50	2
44	3689	D D & E RES	MILK CK	430	833	430
44	3702	ROBY RES	MORAPOS CK	26	26	*
44	3706	SELLERS CROWELL RES	WILLOW CK	6	6	6
44	3721	ELLGEN RESERVOIR	BELL ROCK GULCH	33	143	*
44	3722	ELLGEN RESERVOIR NO 2	MC LERNON DRAW	0	13	*

44	3738	FREEMAN RESERVOIR	LITTLE COTTONWOOD CK	137	137	*
44	3824	BISKUP RESERVOIR	TWO SPRINGS GULCH	77	135	77
44	3902	ELKHEAD CREEK RESERVOIR	ELKHEAD CK	1,308	25,019	18,261
44	3925	FLAT TOP RES	SECOND CK	95	95	*
TOTAL FOR DISTRICT 44				2,557	27,128	18891**

AMOUNT IN STORAGE (AF)

WD	ID	RESERVOIR	SOURCE STREAM	MINIMUM	MAXIMUM	END-OF-YEAR
47	1187	JODY SPRING AND POND	MCKINNON CK	1	1	1
47	3523	ABRAHAM POND	TRIBUTARIES-ILLINOIS R	3	19	9
47	3528	ANTELOPE POND	TRIBUTARIES-ILLINOIS R	9	47	31
47	3529	BREWER POND	TRIBUTARIES-ILLINOIS R	0	48	0
47	3530	ELK POND	TRIBUTARIES-ILLINOIS R	3	59	3
47	3531	POTTER CREEK POND	TRIBUTARIES-ILLINOIS R	9	69	9
47	3532	SEVENTY SIX POND	TRIBUTARIES-ILLINOIS R	25	45	25
47	3533	WILSON'S POND	TRIBUTARIES-ILLINOIS R	1	11	11
47	3534	ALKALI POND	POTTER CK	3	22	3
47	3535	ALLARD CONTOUR, MID POND	TRIBUTARIES-ILLINOIS R	0	8	0
47	3536	ALLARD CONTOUR N. POND	TRIBUTARIES-ILLINOIS R	0	6	0
47	3537	ALLARD POND, NORTH	TRIBUTARIES-ILLINOIS R	0	39	0
47	3538	ALLARD CONTOUR S. POND	TRIBUTARIES-ILLINOIS R	0	9	0
47	3539	ALLARD POND, SOUTH	TRIBUTARIES-ILLINOIS R	0	48	0
47	3540	ANDERSON CONTOUR POND	TRIBUTARIES-ILLINOIS R	0	18	0
47	3541	ANDERSON DRAIN	ILLINOIS RIVER	0	7	0
47	3542	AVOCET POND	TRIBUTARIES-ILLINOIS R	0	13	0
47	3543	BIRDIE POND	TRIBUTARIES-ILLINOIS R	0	6	0
47	3544	BLUEBILL POND	TRIBUTARIES-ILLINOIS R	9	19	9
47	3545	BROCKER POND NORTH	TRIBUTARIES-ILLINOIS R	0	12	0
47	3546	BUDDIES POND	TRIBUTARIES-ILLINOIS R	0	11	0
47	3547	BULRUSH POND	TRIBUTARIES-ILLINOIS R	3	8	3
47	3548	CASE RES #2 ANNEX POND	TRIBUTARIES-ILLINOIS R	5	13	5
47	3549	CATTAIL POND	TRIBUTARIES-ILLINOIS R	0	6	0
47	3550	COYOTE POND	TRIBUTARIES-ILLINOIS R	0	3	1
47	3551	DIVERSION POND	TRIBUTARIES-ILLINOIS R	0	13	0
47	3552	EAGLE POND	TRIBUTARIES-ILLINOIS R	7	20	12

47	3553	EISEMANN POND	TRIBUTARIES-ILLINOIS R	2	10	6
47	3554	FISH HATCHERY POND, EAST	TRIBUTARIES-ILLINOIS R	7	7	7
47	3555	FISH HATCHERY POND WEST	POTTER CK	2	2	2
47	3556	FISHERMAN'S PARKING POND	TRIBUTARIES-ILLINOIS R	0	1	0
47	3557	FOLLETT POND	TRIBUTARIES-ILLINOIS R	0	10	0
47	3558	FOX POND	SPRING CK	0	108	84
47	3559	GERM POND	TRIBUTARIES-ILLINOIS R	24	28	28
47	3560	GOOSE POND	TRIBUTARIES-ILLINOIS R	29	49	29
47	3561	GREASEWOOD POND	TRIBUTARIES-ILLINOIS R	0	5	0
47	3562	HAMPTON NO 1 POND	TRIBUTARIES-ILLINOIS R	0	1	0
47	3563	HAMPTON NO 2 POND	TRIBUTARIES-ILLINOIS R	8	19	12
47	3564	HAMPTON NO 3 POND	TRIBUTARIES-ILLINOIS R	18	23	20
47	3565	HOME POND	TRIBUTARIES-ILLINOIS R	1	56	56
47	3566	HORSESHOE POND	TRIBUTARIES-ILLINOIS R	0	0	0
47	3567	KITCHEN POND	TRIBUTARIES-ILLINOIS R	7	9	9
47	3568	LIVING ROOM POND	TRIBUTARIES-ILLINOIS R	0	6	0
47	3569	MARSH POND	ANTELOPE CK	0	15	0
47	3570	MCCAMMON POND NORTH	TRIBUTARIES-ILLINOIS R	0	8	0
47	3571	MCCAMMON POND SOUTH	TRIBUTARIES-ILLINOIS R	0	27	0
47	3572	N. TOUR ROUTE POND	TRIBUTARIES-ILLINOIS R	0	2	0
47	3573	OLD ROAD POND	TRIBUTARIES-ILLINOIS R	0	3	2
47	3574	ONE TWENTY FIVE POND	TRIBUTARIES-ILLINOIS R	0	17	5
47	3575	PATTEN POND	TRIBUTARIES-ILLINOIS R	3	9	5
47	3576	POTHOLE POND	TRIBUTARIES-ILLINOIS R	0	3	0
47	3577	PRAIRIE DOG POND	ANTELOPE CK	1	12	5
47	3578	RAT DITCH POND	TRIBUTARIES-ILLINOIS R	2	8	3
47	3579	RIZOR POND	TRIBUTARIES-ILLINOIS R	2	10	2
47	3580	ROADSIDE POND NORTH	TRIBUTARIES-ILLINOIS R	0	4	0
47	3581	ROADSIDE POND SOUTH	TRIBUTARIES-ILLINOIS R	0	6	0
47	3582	ROSS POND	POTTER CK	0	1	0
47	3583	SCHOOL POND NORTH	TRIBUTARIES-ILLINOIS R	0	30	0
47	3584	SCHOOL POND SOUTH	TRIBUTARIES-ILLINOIS R	0	27	0
47	3585	SMITH POND	TRIBUTARIES-ILLINOIS R	0	12	9
47	3586	SOLBERG POND	TRIBUTARIES-ILLINOIS R	0	11	0
47	3587	SOUTH TOUR ROUTE POND	TRIBUTARIES-ILLINOIS R	0	2	0
47	3588	SPRING CREEK POND	SPRING CK	35	56	48

47	3589	VARNEY POND	TRIBUTARIES-ILLINOIS R	4	17	4
47	3590	WILLFORD POND	TRIBUTARIES-ILLINOIS R	0	50	0
47	3594	BENNETT RESERVOIR	SOUTH FK OF BEAVER CK	15	56	16
47	3595	BIG CREEK RESERVOIR	SOUTH FK OF BIG CK	0	1,434	*
47	3596	BOETTCHER LAKE RES	LAKE CK	50	100	50
47	3597	BUFFALO RES	BUFFALO CK	437	486	439
47	3598	BUTTE RES	TRIBUTARIES	316	910	910
47	3599	CARLSTROM RES	MICHIGAN RIVER	213	530	530
47	3600	CASE RES NO 1	ANTELOPE CK	81	130	85
47	3601	CASE RES NO 2	POTTER CK	37	98	58
47	3602	CASE RES NO 3	POTTER CK	14	66	66
47	3603	CLAYTON RESERVOIR	BUFFALO CK	117	213	194
47	3604	DARCY RES	LIL WILLOW AKA ROCK CK	0	0	0
47	3605	FULLER RES	COW CK	0	8	5
47	3607	HAP RESERVOIR	BUFFALO CK	0	0	0
47	3608	HECLA RESERVOIR	ARAPAHOE CK	229	255	237
47	3609	HUNTER RES	SOUTH FK OF THREE MICK	0	63	0
47	3610	JACKSON RES	RILEY CK	119	119	119
47	3612	LAKE KATHERINE RES	SOUTH FK OF LONE PINE CK	0	0	*
47	3613	LAKE ROSLYN RES	HOWD CREEK	283	311	306
47	3614	MACFARLANE RES	SOAP CK	4,346	6,466	5,351
47	3615	MCGOWAN RES	MIDDLE FK OF MEXICAN CK	23	40	23
47	3616	MEXICAN RESERVOIR	MEXICAN CK	63	152	86
47	3617	P W FISCHER RES	FISCHER DRAW	28	28	28
47	3620	SHAWVER RES	INDIAN CK OF ILLINOIS R	0	16	0
47	3621	SLACK & WEISS RES	NINEGAR CK	36	159	73
47	3622	SOUTH ARAPAHOE RES	ARAPAHOE CK	2	16	2
47	3623	STAMBAUGH RES	CROSBY CK	88	139	88
47	3625	THREE MILE RES	THREE MILE CK	0	49	0
47	3626	VANVALKENBURG RES	ED VAN VALKENBURG DRAW	0	8	0
47	3627	WALDEN RESERVOIR	ILLINOIS RIVER	13	5,265	1,722
47	3628	WEST ARAPAHOE RES	ARAPAHOE CK	178	597	178
47	3629	WILLS RES	SIX MILE CK	0	5	0
47	3630	TWO LEDGE RES	COYOTE CK	13	43	23
47	3638	SHEARER SPRINGS RES #1	LIL WILLOW AKA ROCK CK	9	9	9
47	3639	SHEARER SPRING RES #2	LIL WILLOW AKA ROCK CK	75	75	75

47	3640	GOOD MEDICINE RESERVOIR	SALES CK	45	60	45
47	3652	FOUR ZERO FOUR POND	TRIBUTARIES-ILLINOIS R	0	6	1
47	3653	FOUR ZERO THREE POND	TRIBUTARIES-ILLINOIS R	0	0	0
47	3664	BLACK WOLF LAKE	BIG WILLOW CK	1	1	1
47	3669	KIDS POND	DEER CK	0	2	2
47	3670	ROBBIES POND	DEER CK	7	7	7
47	3671	MIKES POND	DEER CK	2	2	2
47	3672	INDIAN CREEK #1	INDIAN CK OF ILLINOIS R	18	25	*
47	3673	INDIAN CREEK #2	INDIAN CK OF ILLINOIS R	0	15	0
47	3678	LABRADOR LAKE	MCKINNON CK	3	9	4
47	3679	TIMBER POND	MCKINNON CK	6	8	7
47	3683	HEADWATERS POND	ANTELOPE CK	2	24	21
47	3684	BILBEISI POND	POTTER CK	1	2	1
47	3685	NORTH HACKLEY POND	ILLINOIS RIVER	1	2	1
47	3686	SOUTH HACKLEY POND	ILLINOIS RIVER	0	1	0
47	3687	RODRIGUEZ POND	ILLINOIS RIVER	0	3	0
47	3688	HOFMANN POND #1	NO NAME CK	42	42	42
47	3689	HOFMANN POND #2	NO NAME CK	12	13	13
47	3690	HOFMANN POND #3	NO NAME CK	5	5	5
47	3691	HOFMANN POND #4	NO NAME CK	3	3	3
47	3692	HOFMANN POND #5	NO NAME CK	1	1	1
47	3693	HOFMANN POND #6	NO NAME CK	4	4	4
47	3694	EAST TROWNSELL POND	ARAPAHOE CK	2	3	3
47	3695	LOWER TROWNSELL POND	ARAPAHOE CK	1	4	1
47	3696	MCQUERY POND	BIG GRIZZLY CK	5	5	5
47	3697	SCHROEDER POND	SOAP CK	0	1	0
47	3698	DEER CREEK STOCK POND	DEER CK	0	0	0
47	3699	LAKE JOHN ANNEX	LAKE CK	700	900	900
47	3700	HOFMANN POND #6A	NO NAME CK	1	1	1
47	3702	GYN POND	GRIZZLY CR	2	4	3
47	3703	JO POND	GRIZZLY CR	0	2	1
47	3704	LYN POND	GRIZZLY CR	16	33	16
47	3705	DJ DUCK RESERVOIR	GRIZZLY CR	0	1	0
47	3706	BLAINE'S POND	GRIZZLY CR	5	7	5
47	3707	EAST POND	GRIZZLY CR	2	3	3
47	3708	MUSHROOM POND	GRIZZLY CR	10	11	10

47	3709	18 ISLAND RESERVOIR	GRIZZLY CR	24	76	24
47	3710	WEST RESERVOIR	GRIZZLY CR	29	40	29
47	3711	SMALL POND	GRIZZLY CR	0	0	0
47	3712	DOUGHNUT POND	GRIZZLY CR	5	5	5
47	3713	MELLON POND	GRIZZLY CR	10	18	18
47	3714	DU GOOSE RESERVOIR	GRIZZLY CR	42	45	42
47	3725	ADDISON RESERVOIR	BUFFALO CK	36	42	42
47	3726	AQUA FRIA RES	BEAVER CK OF ROARING FK	0	846	0
47	3742	LAUNE RESERVOIR	TRIBUTARIES	1,637	2,734	2,476
47	3743	SEYMOUR RES	BIG GRIZZLY CK	46	525	525
47	3744	COYTE RESERVOIR	ARAPAHOE CK	32	39	39
47	3746	POLE MOUNTAIN RES	MIDDLE FK OF MEXICAN CK	1,342	1,780	1,342
47	3750	LAKE JOHN	LAKE CK	6,693	7,092	7,092
47	3753	NORTH MICHIGAN CK RES	NORTH FK OF MICHIGAN R	1,264	1,350	1,285
47	3756	HOUSE RES	LOST CK	41	45	45
47	3757	RIDINGS RES	BUFFALO CK	0	46	0
47	3760	BURNS RES	CHEDSEY CK	0	39	39
47	3766	ROCK RESERVOIR	NEWCOMB CK	0	18	0
47	3768	KETTLE RESERVOIR	NEWCOMB CK	0	22	*
47	3777	NINEGAR RESERVOIR	NINEGAR CK	0	24	24
47	3778	FISCHER LAKE	MICHIGAN RIVER	54	58	58
47	4335	MEADOW CREEK RES	MEADOW CK	2,525	5,264	4,102
47	4356	MUDDY PASS RES	BIG GRIZZLY CK	52	58	52
47	4358	WADE LAKE	NINEGAR CK	51	51	51
47	4397	OVERTON RES NO 2	ALDERDICE DRAW	9	9	9
47	4398	OVERTON RES NO 3	ALDERDICE DRAW	15	15	15
47	4400	CANADIAN STRIP POND NO 1	BOLTON DRAW	0	0	0
47	4432	SPRING CK RES	SPRING CK	33	50	50
47	4433	MUSKRAT POND	POTTER CK	284	390	284
TOTAL FOR DISTRICT 47				22,125	40,974	29881**

AMOUNT IN STORAGE (AF)

WD	ID	RESERVOIR	SOURCE STREAM	MINIMUM	MAXIMUM	END-OF-YEAR
54	3520	B2 RESERVOIR	TRIBUTARIES	0	0	*
54	3589	ELK LAKE RES	WILLOW CK	0	398	0

54	3780	MARTIN CULL RESERVOIR	FOUR MILE CK	115	250	115
54	3946	MCCARGER RES	INDEPENDENCE CK	64	64	64
TOTAL FOR DISTRICT 54				180	713	180**

AMOUNT IN STORAGE (AF)

WD	ID	RESERVOIR	SOURCE STREAM	MINIMUM	MAXIMUM	END-OF-YEAR
56	3506	DOUGLAS RESERVOIR	COTTONWOOD CK	3	3	3
56	3710	BASSETT RESERVOIR NO 1	MATT SPRING CK	22	33	22
56	3711	T W BLEVINS RES	MATT SPRING CK	369	369	*
56	3713	HAUNTED SPG RES	HAUNTED SPG GULCH	2	2	*
56	3740	BASSETT RESERVOIR NO 2	BULL CANYON	16	98	16
56	3901	MATT WERNER RESERVOIR	POT CK	3,000	3,000	3,000
56	3921	COVE RES	COTTONWOOD CK	100	122	100
56	4452	HOUSE RESERVOIR	ANTONE CANYON	0	20	0
TOTAL FOR DISTRICT 56				3,511	3,647	3141**

AMOUNT IN STORAGE (AF)

WD	ID	RESERVOIR	SOURCE STREAM	MINIMUM	MAXIMUM	END-OF-YEAR
57	3500	SENECA MINE POND 006	HUBBERSON GULCH	14	14	14
57	3501	SEDIMENTATION POND A	FOIDEL CK	210	210	210
57	3516	WOLF MOUNTAIN RES	WOLF CK	81	82	82
57	3523	PEABODY POND Y-1	SAGE CK	14	14	14
57	3537	MINE 3 NORTH POND	MIDDLE CK	7	11	9
57	3538	MINE 3 SOUTH POND	MIDDLE CK	30	41	30
57	3541	HUNTER NO 1 RES	MIDDLE CK	3	10	6
57	3543	CAMPSITE RESERVOIR	SMUIN GULCH	2	2	2
57	3546	WEST RIDGE IMPOUNDMENT	TRIBUTARIES-TROUT CK	30	33	30
57	3547	CENTER RIDGE IMPOUNDMENT	TRIBUTARIES-TROUT CK	20	22	20
57	3549	APPLE RES	DRY FORK	1	11	1
57	3550	BASIN RES	BUCHANAN GULCH	0	0	0
57	3551	BROCK RESERVOIR	BROCK GULCH	1	6	1
57	3555	ECKMAN PARK RES 1	FOIDEL CK	3	4	3
57	3557	ECKMAN PARK RES 2	FOIDEL CK	1	2	1
57	3560	EMRICH RES	TEMPLE GULCH	0	178	0

57	3564	GREASEWOOD FLAT RES	DILL GULCH	0	8	0
57	3571	JAMES MARION YOAST RES	YOAST GULCH	18	200	18
57	3572	J C TEMPLE RES 1	TEMPLE GULCH	3	454	7
57	3574	MORGAN CREEK RES 1	MORGAN CK	0	100	0
57	3575	NOFSTGER RES	SCOTCHMANS GULCH	55	95	60
57	3576	NOFSTGER ZEIGLER RES	SCOTCHMANS GULCH	50	67	50
57	3577	SAGE CREEK RES	SAGE CK	0	0	0
57	3582	SEATON RES	MIDDLE FISH CK	0	0	0
57	3583	SHERIFF RES	TROUT CK	987	987	987
57	3585	WHETSTONE RES	WHETSTONE CK	6	12	6
57	3587	WM L YOAST RESERVOIR 1	YOAST GULCH	0	20	20
57	3610	DEERWOOD POND	TRIBUTARIES-TROUT CK	12	14	12
57	3612	HOPES POND	TRIBUTARIES-TROUT CK	1	2	1
57	3620	PILOTS POND	WOLF CK	12	14	14
57	3639	HEADQUARTERS LAKE	TROUT CK	7	11	7
57	3640	THAMES LAKE	TROUT CK	8	11	8
57	3641	BAKER LAKE	TROUT CK	7	9	7
57	3642	DUCK POND	TROUT CK	1	1	1
57	3644	HUNTER UPPER RESERVOIR	MIDDLE CK	4	4	4
57	3654	PEROULIS POND	FISH CK	5	5	5
57	3655	COTTONWOOD POND	TEMPLE GULCH	20	40	26
57	3657	HUNTER MIDDLE RESERVOIR	MIDDLE CK	5	5	5
57	3658	HUNTER LOWER RESERVOIR	MIDDLE CK	7	7	7
57	3659	PIT STORAGE POND	FOIDEL CK	40	40	40
57	3672	PECOCO POND	GRASSY CK	5	5	5
57	3673	MIDDLE HSR POND	BROCK GULCH	1	1	1
57	3674	UPPER HSR POND	BROCK GULCH	1	3	1
57	3675	THE VILLAGES OF HAYDEN POND NO.	TRIBUTARIES	15	15	15
57	3682	DILL GULCH DAM	DILL GULCH	3	4	3
57	3683	RANDALL RESERVOIR	DRY CK	0	1	1
57	3684	ANDERSON POND	PURINGTON DRAW	3	4	3
57	3685	MCCAWLEY POND	TROUT CK	0	3	3
57	3761	EAST OF MINE SHOP IMPND	GRASSY CK	9	9	9
57	3772	KOWACH RESERVOIR 1	BUCHANAN GULCH	28	33	30
57	3775	COZZENS WALROD RESERVOIR	HUTCHINSON DRAW	25	40	40
57	3786	HAYDEN RAW WATER RES	SAGE CK	752	832	796

57	3793	WADGE PIT RES	GRASSY CK	150	150	150	150
57	3795	FLAATEN RES 1	MIDDLE CK	1	2	2	1
57	3797	ENERGY POND 2	FOIDEL CK	2	5	5	5
57	3840	GRASSY CR IMPOUNDMENT	GRASSY CK	3	3	3	3
57	4001	HIGH QUALITY POND	SAGE CK	20	20	20	*
57	4002	INTERMEDIATE QUALITY P	SAGE CK	260	260	260	*
57	4003	EVAPORATION POND	SAGE CK	40	40	40	*
TOTAL FOR DISTRICT 57				2,980	4,175	2,771**	

AMOUNT IN STORAGE (AF)

WD	ID	RESERVOIR	SOURCE STREAM	MINIMUM	MAXIMUM	END-OF-YEAR
58	1729	POND AT W LINCOLN PARK	TRIBUTARIES	3	3	3
58	3500	ALLEN BASIN RES	MIDDLE HUNT CK	74	1,560	201
58	3501	ALMA M BAER RES	FISH CK	3	3	3
58	3503	BISON PARK RES	LAWSON CK	0	41	0
58	3504	BULL PARK RES 2	WATSON CK	0	33	*
58	3505	BURNT MESA RES	SOUTH HUNT CK	29	52	36
58	3506	CHAPMAN RES	LITTLE OAK CK	51	247	51
58	3508	FISH CREEK RES	MIDDLE FK OF FISH CK	2,994	4,147	3,235
58	3509	FISH LAKE RES 2	WHEELER, LAKE CK	35	35	35
58	3511	GARDNER PARK RESERVOIR	GARDNER PARK CK	417	629	417
58	3512	HAHNS PEAK RES	WILLOW CK	564	600	600
58	3513	HEART LAKE RES	WATSON CK	0	186	0
58	3518	LAKE CREEK RES	WHEELER, LAKE CK	292	292	292
58	3519	LAKE WINDEMERE RES	DE CORA GULCH	30	80	65
58	3520	LEE RESERVOIR	CHIMNEY CK OR S FK	5	20	5
58	3521	LESTER CK RESERVOIR	LESTER CK	5,200	5,780	5,200
58	3522	LONG LAKE RES	SOUTH FK OF FISH CK	32	338	89
58	3525	MCCHIVVIS RES	WATSON CK	0	114	14
58	3528	MOORE PARK RES	MOORE PARK CK	21	21	21
58	3530	OAK CREEK RES	OAK CK	2	2	2
58	3532	RAMS HORN RES	DOME CK	122	122	122
58	3535	SANDELIN RES 2	BIG CK	7	7	7
58	3539	SIMON RES 1	MIDDLE HUNT CK	62	484	97
58	3540	STILLWATER RES 1	BEAR RIVER	1,423	3,827	1,423

58	3541	STUCKEY DIST RES		SPRING CK	0	0	0	0
58	3544	TRULL CR RES		TRULL CK	0	149	5	
58	3545	BEAR LAKE		BEAR RIVER	620	620	620	
58	3546	WHEELER RES		WHEELER, LAKE CK	37	37	37	
58	3547	WHITELEY NELSON RES		WILSON CK	107	314	107	
58	3551	DEER PARK POND 3		WILLEY CK	8	11	9	
58	3560	MAPHIS POND		MILL CK OF WILLOW CK	10	12	10	
58	3561	CHARLIES POND		TRIBUTARIES-ELK R	3	4	3	
58	3564	OVERMAN RESERVOIR		TRIBUTARIES	0	20	0	
58	3569	FOLLY POND		OAK CK	36	36	36	
58	3571	MYSTIC RESERVOIR 2		TRULL CK	8	8	8	
58	3585	KENYON FISH POND		TRIBUTARIES-ELK R	6	6	6	
58	3586	FAIT RESERVOIR		RENFRO CK	4	4	4	
58	3587	UPPER SPRING CK RES		SPRING CK	15	15	15	
58	3596	LODWICK POND		FISH CK	13	13	13	
58	3599	VALENTINE POND		FISH CK	2	2	2	
58	3603	CHAPMAN POND		TRIBUTARIES-ELK R	3	7	3	
58	3609	WILDFLOWER POND		MILL CK OF WILLOW CK	9	10	10	
58	3629	TARZIAN RES 1		FAWN CK	3	6	3	
58	3631	LAKE CATAMOUNT		YAMPA RIVER	3,258	8,380	7,597	
58	3635	ROSSI RESERVOIR 1		MIDDLE HUNT CK	5	10	10	
58	3644	HOLLINGWORTH FISH POND 2		SODA CK	0	0	0	
58	3684	BRENDAN'S POND		FARNESWORTH CK	1	1	1	
58	3685	CINDY'S POND		FARNESWORTH CK	0	0	0	
58	3687	PETER'S POND		FARNESWORTH CK	0	0	0	
58	3689	DURYEA DAM		TRIBUTARIES-ELK R	6	8	6	
58	3708	MCGILL POND		BUTCHERKNIFE CK	0	0	0	
58	3709	STEAMBOAT GC POND 2		YAMPA RIVER	2	2	2	
58	3710	STEAMBOAT GC POND 3		YAMPA RIVER	0	0	0	
58	3716	DITCH CREEK RESERVOIR #1		BIG CK	4	4	4	
58	3717	DITCH CREEK RESERVOIR #2		BIG CK	11	11	*	
58	3724	BRUMBACK POND		OAK CK	20	23	23	
58	3725	SLATE CREEK DAM		SLATE CK	8	9	9	
58	3732	COLEMAN POND		FARNESWORTH CK	3	3	3	
58	3735	M&M POND		SMITH CK	3	3	3	
58	3759	SANDELIN RES 3		BIG CK	5	6	6	

58	3767	CROWNER RESERVOIR	BEAVER CK OF CHIMNEY CK	0	58	0
58	3770	MARTIN RESERVOIR	MARTIN CK	70	74	74
58	3771	TILLQUIST LAKE RESERVOIR	MORRISON CK	6	6	6
58	3779	HARVEY STOCKWATER POND	DEEP CK	2	3	3
58	3780	HARVEY DEEP CREEK POND	DEEP CK	0	1	1
58	3787	STEAMBOAT LAKE	WILLOW CK	23,200	26,000	23,200
58	3788	HOLLINGWORTH FISH POND	SODA CK	2	2	2
58	3825	UPPER ROBINSON RES	DEER CK	21	23	22
58	3826	BAR BEE LAKE	BEAVER CK OF MORRISON CK	81	81	81
58	3866	ROULETTE POND	REED CK	5	5	5
58	3867	SNOWY MNT RANCH POND A	WILLOW CK	0	0	0
58	3868	SNOWY MNT RANCH POND B	WILLOW CK	0	0	0
58	3940	REED RESERVOIR	CHIMNEY CK	8	8	8
58	3943	GOOF UP PONDS	TRIBUTARIES-ELK R	5	8	6
58	4213	STAGECOACH RESERVOIR	YAMPA RIVER	28,563	33,130	31,245
58	4240	YAMCOLO RES	BEAR RIVER	3,238	9,754	4,128
58	4362	HENDERSON RES	HENDERSON CK	20	31	25
58	4366	MAD RANCH POND	HOT SPRING CK	10	10	10
58	4376	STEAMBOAT WW RECL RES	TRIBUTARIES	29	40	*
58	4420	BROOKIE LAKE	WHEELER, LAKE CK	32	32	32
58	4442	STEAMBOAT GC POND 1	YAMPA RIVER	1	1	1
58	4446	EITELJORG POND	BUTCHERKNIFE CK	0	0	0
58	5102	GOTT POND #1	ELK RIVER	3	3	3
TOTAL FOR DISTRICT 58				70,870	97,626	79,322**

* No end-of-year reading taken.

** End-of-year total affected by structures with no end-of-year reading

**WATER DIVERSION SUMMARIES
IRRIGATION YEAR 2007**

WD	STRUCTURES REPORTING					EST. NO. OF VISITS TO DIVERSION STRUCTURES	TOTAL DIVERSIONS TO STORAGE AF	TOTAL DIVERSIONS TO IRRIGATION AF	NUMBER OF ACRES IRRIGATED	AVERAGE ACRE- FEET PER ACRE
	With Record Available 1	No Water Available 2	No Water Taken 3	No Info Available 4	Active Struct. w/No Record 5					
43	704	83	113	8	2149	5,341	1623	251,467	25,198	9.98
44	244	40	94	11	2952	1,337	0	115,522	28,993	3.98
47	539	9	50	5	603	3,413	16,384	416,906	111,840	3.73
54	108	3	18	7	647	660	235	54,970	13,771	3.99
55	18	1	6	0	400	143	0	13,979	1,820	7.68
56	59	5	22	11	649	345	386	9,647	2,257	4.27
57	149	3	79	13	673	475	217	42,836	9,235	4.64
58	491	12	154	67	1839	3,865	528	121,397	29,003	4.19
Total	2,312	156	536	122	8956	15,579	19,373	1,026,724	222,117	4.62

- (1) Grouped by ID
- (2) Count of Structures with NUC = B
- (3) Count of Structures with NUC = A+C+D
- (4) Count of Structures with NUC = E+F
- (5) Count of Diversion Structures with CIU = U

WATER DIVERSIONS TO VARIOUS USES
IRRIGATION YEAR 2007
(in acre-feet)

USES	WD 43	WD 44	WD 47	WD 54	WD 55	WD 56	WD 57	WD 58	TOTALS
TRANSMOUNTAIN OUT	0	0	5,833	0	0	0	0	0	5,833
TRANSBASIN OUT	0	0	0	0	0	0	0	1,773	1,773
MUNICIPAL	6,111	2,103	169	0	0	0	361	4,098	12,842
COMMERCIAL	232	40	1	0	0	188	0	13	473
INDUSTRIAL	3,010	16,216	1,186	0	0	0	3,314	0	23,725
RECREATION	1,991	0	0	0	0	0	0	4,532	6,524
FISHERY	41,720	90	325	10,831	0	841	618	4,975	59,399
DOMESTIC & HOUSEHOLD	1,055	73	0	22	0	70	22	679	1,920
LIVESTOCK	12,128	179	6,487	608	9	121	2,867	8,831	31,228
AUGMENTATION	184	0	0	0	0	0	0	0	184
EVAPORATION	1,644	0	0	0	0	0	127	81	1,852
GEO THERMAL	0	0	0	0	0	0	0	0	0
SNOWMAKING	0	0	0	0	0	0	0	365	365
MINIMUM STREAMFLOW	0	0	0	0	0	0	0	2,120	2,120
POWER GENERATION	383,988	2,821	0	0	0	0	0	44,000	430,809
WILDLIFE	0	0	6	0	0	1,173	17	0	1,196
RECHARGE	0	0	0	0	0	0	0	683	683
ALL BENEFICIAL USES	0	0	0	0	0	0	0	4,393	4,393
TOTALS	452,063	21,522	14,007	11,461	9	2,393	7,326	76,543	585,324

TRANSMOUNTAIN DIVERSION SUMMARY - OUTFLOWS
IRRIGATION YEAR 2007

		SOURCE							RECIPIENT		
WD	ID	NAME	STREAM	10-YR AVG		CURRENT YEAR		WD	ID	STREAM	
				AF	DAYS	AF	DAYS				
47	4602	Cameron Pass Ditch	Michigan River	98.8	28	94.7	49	3		Poudre River	
47	4603	Michigan Ditch	Michigan River	4355	328	5739	365	3		Poudre River	
58	4630	Dome Creek Ditch	Dome Creek	127	67	45.5	43	50		Egeria Creek	
58	4684	Sarvis Ditch	Sarvis Creek	535	94	---	---	53		Muddy Creek	
58	4685	Stillwater Ditch	Bear River	2144	109	1728	119	53		Egeria Creek	

NO TRANSMOUNTAIN DIVERSION INFLOWS

Appendix B

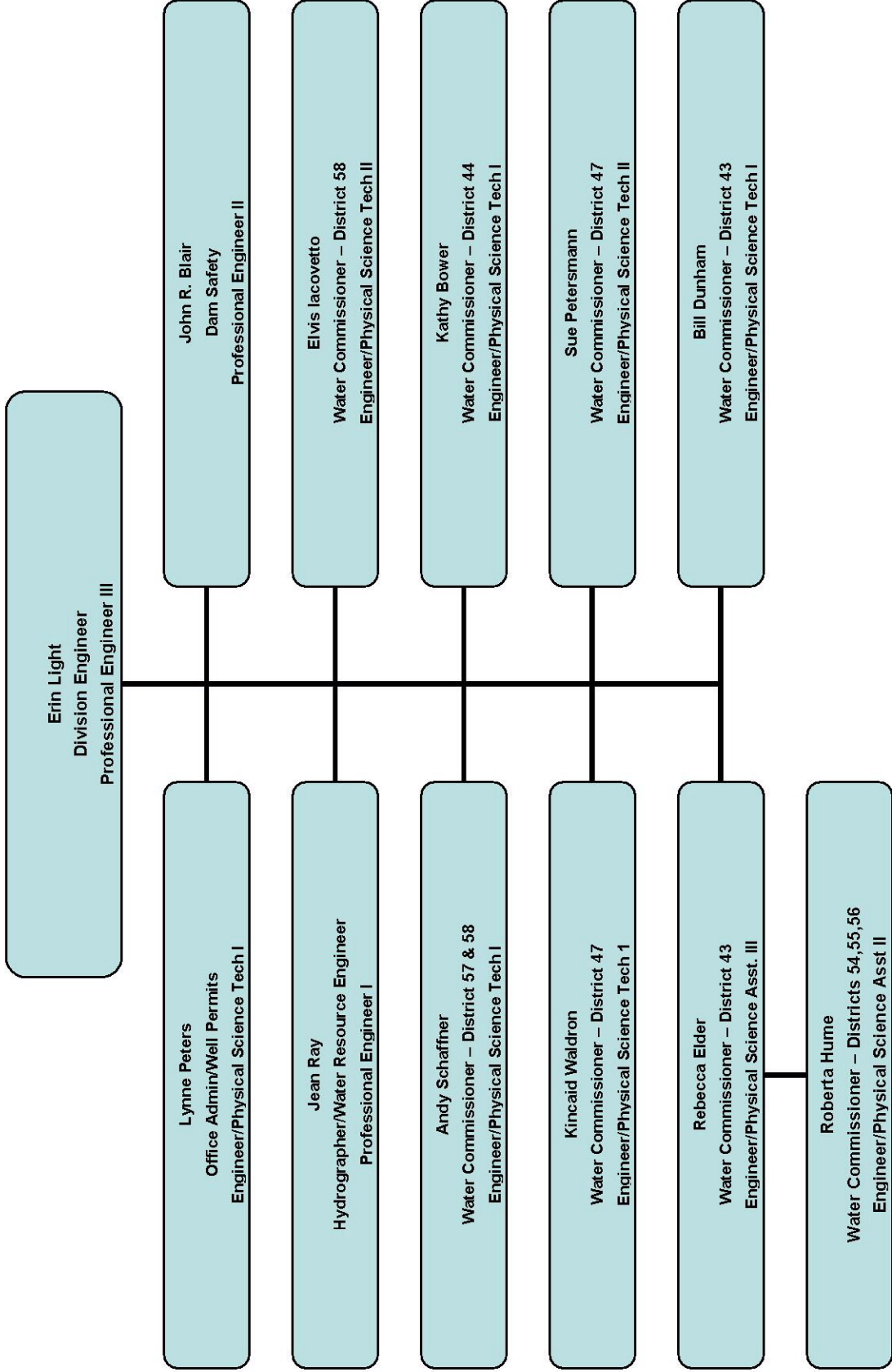
RIVER CALLS – IRRIGATION YEAR 2007

<u>WD</u>	<u>STREAM</u>	<u>CALLING STRUCTURE</u>	<u>FIRST</u>	<u>LAST</u>	<u>ADMIN NO</u>
4300701	PICEANCE CK	HOME DITCH	2007-05-27 08:00	2007-11-12 08:00	12549.00000
4300815	PICEANCE CK	METZ & REIGAN DITCH	2007-05-27 08:00	2007-08-04 08:00	12930.00000
4300816	PICEANCE CK	METZ DITCH	2007-05-27 12:00	2007-08-04 08:00	12755.00000
4300923	PICEANCE CK	SCHUTTE DITCH	2007-05-27 08:00	2007-11-12 08:00	12875.00000
4300948	PICEANCE CK	SQUARE S CONS D SYS	2007-06-01 12:00	2007-07-11 08:00	13509.00000
4300948	PICEANCE CK	SQUARE S CONS D SYS	2007-06-01 12:00	2007-07-11 08:00	12756.00000
4300948	PICEANCE CK	SQUARE S CONS D SYS	2007-06-01 12:00	2007-07-11 08:00	13270.00000
4300948	PICEANCE CK	SQUARE S CONS D SYS	2007-06-01 12:00	2007-07-11 08:00	13274.00000
4300948	PICEANCE CK	SQUARE S CONS D SYS	2007-07-24 08:00	2007-10-05 08:00	13509.00000
4300948	PICEANCE CK	SQUARE S CONS D SYS	2007-07-24 08:00	2007-10-05 08:00	12756.00000
4300948	PICEANCE CK	SQUARE S CONS D SYS	2007-07-24 08:00	2007-10-05 08:00	13270.00000
4300948	PICEANCE CK	SQUARE S CONS D SYS	2007-05-27 08:00	2007-10-05 08:00	13274.00000
4400511	FORTIFICATION CK	WISCONSIN DITCH	2007-06-24 17:00	2007-07-06 12:00	14019.00000
4400590	MORAPOS CK	DEER CK & MORAPOS D	2007-05-29 12:00	2007-06-25 08:00	19250.17055
4400591	DEER CK	DEER CK DITCH	2007-06-01 12:00	2007-07-15 08:00	14020.00000
4400688	LITTLE BEAR CK	LITTLE BEAR DITCH	2007-05-24 12:00	2007-10-01 08:00	13797.00000
4400814	DEER CK	HIGHLINE DITCH	2007-06-01 12:00	2007-07-15 08:00	19250.17288
4700578	MICHIGAN RIVER	CURTIN DITCH	2007-04-25 09:06	2007-04-29 10:00	16571.00000
4700578	MICHIGAN RIVER	CURTIN DITCH	2007-04-25 09:14	2007-04-29 10:00	17667.00000
4700591	LIL WILLOW AKA ROCK CK	DONELSON DITCH	2007-07-05 12:01	2007-07-17 07:00	12908.00000
4700615	ILLINOIS RIVER	EVERHARD BALDWIN DITCH	2007-06-23 08:00	2007-07-10 07:00	14762.00000
4700670	ILLINOIS RIVER	HOME DITCH NO 2	2007-07-10 07:00	2007-08-06 09:00	12945.00000
4700710	LIL WILLOW AKA ROCK CK	KERR DITCH	2007-06-26 07:00	2007-07-05 12:00	11822.00000
4700710	LIL WILLOW AKA ROCK CK	KERR DITCH	2007-06-26 07:01	2007-07-05 12:00	12908.00000
4700710	LIL WILLOW AKA ROCK CK	KERR DITCH	2007-06-26 07:02	2007-07-05 12:00	13634.00000
4700788	SPRING CK	NELLIE E DITCH	2007-06-28 07:41	2007-09-07 07:30	23016.19722
4700792	NEWCOMB CK	NEWCOMB DITCH	2007-06-21 12:00	2007-07-15 12:00	12174.00000
4700792	NEWCOMB CK	NEWCOMB DITCH	2007-06-21 12:00	2007-07-15 12:00	12773.00000
4700792	NEWCOMB CK	NEWCOMB DITCH	2007-06-21 12:00	2007-07-15 12:00	14031.00000
4700896	NEWCOMB CK	STAPLES DITCH NO 2	2007-07-15 12:00	2007-10-20 08:00	14762.00000

5600564	POT CK	MILES DITCH	2007-05-11 16:04	2007-05-30 07:30	31579.23259
5700518	TROUT CK	DAVID M CHAPMAN DITCH 2	2007-07-06 11:01	2007-08-01 16:00	22444.22035
5700518	TROUT CK	DAVID M CHAPMAN DITCH 2	2007-07-06 11:04	2007-08-01 16:00	39925.30102
5700576	TROUT CK	ORNO DITCH	2007-07-06 11:00	2007-08-01 16:00	14011.00000
5700576	TROUT CK	ORNO DITCH	2007-07-06 11:02	2007-08-01 16:00	23544.21352
5700593	TROUT CK	SLOUGH DITCH	2007-07-06 11:03	2007-08-01 16:00	23544.22039
5800722	SOUTH HUNT CK	LAFON DITCH	2007-05-25 12:00	2007-10-01 08:00	18529.13985
5800798	BEAR RIVER	NICKELL DITCH	2007-05-16 12:00	2007-10-01 08:00	12232.00000
5800863	MIDDLE HUNT CK	SIMON DITCH	2007-05-11 12:00	2007-10-09 08:00	14032.00000
5800868	SODA CK	SODA CREEK DITCH	2007-09-04 08:00	2007-10-01 08:00	13675.00000
5801461	WILLOW CK	WILLOW CK MSF-M2	2007-07-06 10:30	2007-09-12 12:00	46649.00000

Appendix C

DIVISION 6 ORGANIZATIONAL CHART



Appendix D

2007 OFFICE ADMINISTRATION and WORKLOAD MEASURES

Professional and Technical Staff (FTE).....	4.0
Water Commissioners Assigned (FTE)	6.75
Wells Permitted	197
Water Court Appearances	0
Division Engineer Contacts with Water Referee	40
Division Engineer Contacts with Attorneys.....	150
Meetings with Water Users	250
Meetings to Resolve Water Related Disputes	2
Contacts to Give Public Assistance	8500