Annual Report Division 4



The remnants of the historic Hanging Flume built in 1889 - 1891 to divert water from the San Miguel River and deliver it to a gold mining site above the Dolores River some 13 miles distant. The flume was abandoned after only three years and stripped of its lumber and timbers by local ranchers and homesteaders.

2009



2009 COLORADO DIVISION OF WATER RESOURCES ANNUAL REPORT DIVISION 4

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ACCOMPLISHMENTS

Water Administration

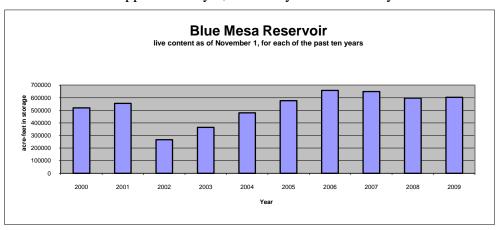


Dust on Snow Measurements Red Mtn. Pass

You probably have heard it said that there is no average water year. The 2009 Water Year turned out to be 100 percent average for snowpack conditions as of April 1st. However, the runoff period was anything but average. The spring runoff began in April, but the warm weather in the first half of May, combined with many dust on snow layers (see satellite images on next page) in the snowpack, really made a big impact on the rate of runoff, with runoff generally peaking throughout the basin approximately May 15 through May 18. The April 1st snowpack for the past six years is shown below.



Reservoirs filled early this year with Silverjack, Ridgway, Paonia, and Crystal Reservoirs all spilling by the middle of May. Blue Mesa Reservoir and Taylor Park Reservoir are managed to prevent spills from occurring, yet were near capacity by the end of May, with Blue Mesa Reservoir gaining approximately twenty three feet of storage during May due to the accelerated runoff rate. Streamflows through the Black Canyon peaked at 6,700 cfs on May 13 and were reduced to approximately 2,000 cfs by the end of May.





Satellite Imagery, Dust on Snow San Juan Mtns., May 2008

The average April to July unregulated inflow into Blue Mesa Reservoir is approximately 720,000 acre-feet. April through July 2009 inflow to Blue Mesa was 772,000 af which is considered an average wet year. (The May 1st April – July forecasted inflow was 690,000 af.) Blue Mesa reservoir was naturally forecasted to fill. However, as described in the first paragraph of this section, the May runoff was extreme as runoff increased significantly after May 15. Inflows into Blue Mesa were 156 percent of average for the month of May.

Similar to the previous water year, especially from July through October, the Gunnison Basin experienced another very dry irrigation season in terms of precipitation. Full reservoirs at the beginning of the irrigation season and a cool wet June helped to prevent river calls on the Gunnison River main stem. As it was, the dry conditions with good irrigation supply resulted in very good hay crops and haying conditions throughout the basin.

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Satellite Imagery, Dust on Snow San Juan Mtns., May **2009**

District 40 was tightly administered with the call season beginning early spring before runoff, free

water during the runoff, and then back on call in June. Most areas of District 40 depend heavily on storage water in Grand Mesa reservoirs, Paonia Reservoir, and Overland Reservoir to sustain the mid- and late-summer irrigation. There was ample spring runoff to entirely fill every reservoir in District 40, especially since the carryover all reservoirs was so good from last fall. Reservoir water from the Grand Mesa was not needed for irrigation demands until the early part of the summer because of the cool wet June. The carryover storage going into the 2009 irrigation season was again above normal, for the fourth year in a row.

Despite the drier than normal summer, minimal administrative curtailment was required in the Uncompahgre River and its tributaries in Districts 41 and 68. The Gunnison Tunnel kept running at maximum capacity, and there was enough flow down the Uncompahgre to meet the rest of the water users' needs. Many thanks to the Uncompahgre Valley Water Users Association and Tri-County Water Conservancy District for their water management assistance. The Division of Water Resources works in collaboration with these agencies to meet the demands of water users in the Uncompahgre River watershed, which is comprised of over 85,000 acres of irrigated lands.

Conditions were even drier during the irrigation season on the San Miguel River and its tributaries in District 60. A river call from the Highline Canal and the other senior ditches was made in July and extended into September, requiring significant administration of junior water rights and implementation of numerous plans for augmentation. The summer typically produces intense and localized thunderstorms in this part of the basin helping to satisfy senior

water rights and reduce the level of river calls. As in 2008, such summer time monsoonal season precipitation was not observed in 2009.

Personnel

In 2009, Division 4 had one retirement and one new hire. After a quarter century of state service, one of the most colorful characters to ever serve in Division 4, Kenny Mahannah, has finally retired as of January 1, 2010. Kenny was responsible for all daily care, administration, and release of stored water in numerous reservoirs in the upper Surface Creek drainage on Grand Mesa in Water District 40.

Luke Reschke was appointed lead water commissioner in June of 2009 for District 41(lower Uncompanger River) based out of



Kenny Mahannah at his cabin on Grand Mesa

the Montrose office. Luke actually served six-months as a temp in this position prior to the hiring freeze in 2008 and we are very happy to see him back in the position again. Luke is from the Uncompangre Valley and has already established a good working relationship with his water users.

At the time of this Annual Report, the vacancy in the Assistant Division Engineer position was advertised on the State Department of Personnel website as an open/competitive announcement. Many qualified applications were accepted by Human Resources and a written exam was held on January 21, 2010, to reduce the candidate pool to the top three candidates. After an oral exam/interview day on January 28, 2010, Jason Ullmann was finally selected for the position. With cattle ranching and farming in his family background, and a water resources engineering experience from the consulting world, Jason will be well prepared to serve our customer base.



Greg Powers was selected as the 2009 Water Commissioner of the Year for Water Division 4. Greg was originally hired in 2007 as the District 41 water commissioner. In 2008, Greg transferred to District 40 as the deputy water commissioner for the Smith Fork River system in the Crawford Mesa area. Greg got off to a rough start in 2008 during the transition. However, in 2009, Greg really stepped up and answered the call by establishing a high level of trust and communication with his water users in this tightly

administered system, as well as learning some of the remote structure locations in his area. It took a lot of extra time and effort on Greg's part to earn the trust of his water users and Greg set a great example for others.

$\mathbf{B}_{\mathtt{UDGET}}$

In 2008, we were hit by soaring fuel prices during the peak of the irrigation season followed by a hiring freeze. Fuel prices finally returned to normal (after the irrigation season had ended) and the hiring freeze was unofficially lifted in the spring of 2009 for select vacancies. Early in the calendar year, Division of Water Resources took action to reduce general fund spending by 2.5 percent. Training and overtime



were cut from the budget, as well as funding for special functions. For the remainder of the fiscal year, staff was conservative with their mileage, consolidating trips to the extent practical. The cuts were so successful that the overtime budget was re-instituted in March 2009 with associated operating dollars for mileage. That was very good news indeed.

Wayne Schieldt's retirement on December 31, 2008, helped Division 4 contribute to a reduction in the personal services budget in 2009 and fiscal year 2009/2010. The budget reductions accomplished by DWR as a whole helped the State achieve budget reduction goals. For example, salary survey increases were eliminated on July 1, 2009. Pay for performance bonuses were eliminated as well. Furlough of state employees began in September of 2009, with a furlough day in September, October, November and December. The good news is that Division 4 lost no positions

A new cell phone policy was also instituted which eliminated reimbursement of the business use of a personal cell phones. That action only affected five employees in our Division. Overall, with the new cell phone policy and the consolidation of Verizon accounts, Division 4 has observed a slight reduction in cell phone expenses. However, the level of service was negatively impacted.

Hydrography

Div 4 has 25 Satellite Monitoring Stations (SMS). The data from these stations may all be found on the *Colorado's Surface Water Conditions* web site. We cooperate with the US Bureau of Reclamation at four sites and publish two of these. Hydrographer Jerry Thrush continues to provide hydrographic support for this Division. With the assistance of several Water Commissioners, Jerry maintains seven published gages, seven administrative gages and keeps satellite monitoring equipment maintained.



Jerry Thrush measuring Selig Canal

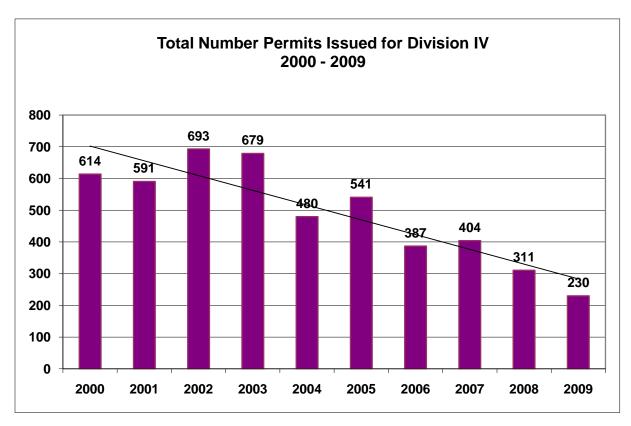
We continue to use ADCP acoustic technology for the hydrography program in Division 4. ADCP stands for Acoustic Doppler Current Profiler, which uses Doppler technology to determine the depth and velocity of a stream cross-section. Jerry has also been helpful to other Divisions, conducting demonstrations and training for them to purchase and use their own equipment.

D_{AM} S_{AFETY}

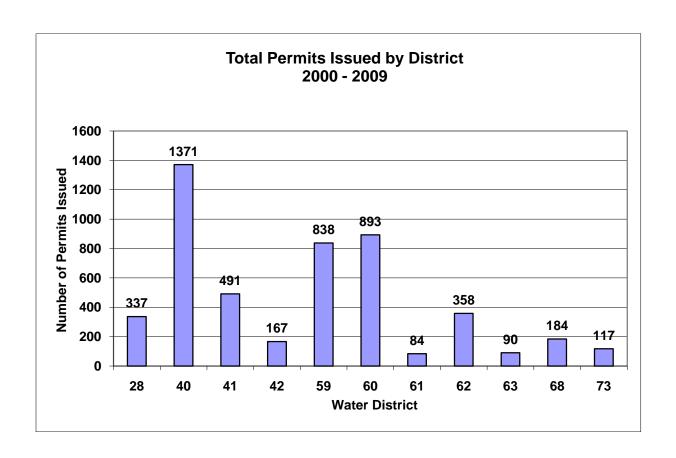
All of the Dam Safety activities in Division 4 are now documented in the *Annual Report on Dam Safety to the Colorado General Assembly*.

GROUNDWATER

The Well Permitting Program in Division 4 continues to provide timely issuance of exempt well permits. There were 230 well permits issued within Division 4 during 2009, a decrease from the 311 permits issued last year and a continued indicator of the overall trend in well permitting activity in Division 4. The decreasing trend is undoubtedly due to the slowing of development and growth, as the charts below show. 200 of the total 230 permits were exempt well permits issued by Scott King, the Division 4 well commissioner. The remaining 30 non-exempt permits were issued by the 456 Team staff in Denver in 2009. Our plan is to continue issuing exempt well permits out of this office.



Of special interest is a breakdown of these permits by district as shown below. Water District 40 is the largest district and much development relies on individual wells for water supply. Similarly, development and growth in Water Districts 59 and 60 rely on individual wells for water supply. Due to the availability of Project 7 water throughout the Uncompander Valley, comparatively fewer domestic use wells are drilled in Districts 41 and 68.



Number of Well Permits by Water District for the Past 10 Years

				Numbe	r of Pern	nits by W	ater Di	istrict				
Year	28	40	41	42	59	60	61	62	63	68	73	Total
2000	50	150	46	24	113	156	4	38	8	17	8	614
2001	40	145	62	38	89	108	11	47	17	18	16	591
2002	58	227	69	23	76	137	7	48	8	29	11	693
2003	40	229	65	20	106	134	8	27	21	15	14	679
2004	31	102	69	20	90	94	5	26	7	21	15	480
2005	40	151	114	11	90	54	10	40	3	18	10	541
2006	16	106	21	6	89	67	4	35	8	19	16	387
2007	23	119	16	10	89	69	14	28	4	18	14	404
2008	26	70	17	8	66	38	21	38	11	8	8	311
2009	13	72	12	7	30	36	0	31	3	21	5	230
Total	337	1371	491	167	838	839	84	358	90	184	117	4700

All exempt permits were issued out of the Montrose office. Our office has spent a considerable amount of time identifying and correcting information in the well permit database. The Well Commissioner has also undertaken several GIS projects involving this database that is proving very useful in getting parcel information from the counties in a useable form and moving toward replacing the hand drawing process on the paper maps. Use of Aquamap has allowed the Well Commissioner to use GIS parcel data to easily identify parcels that are locked up with a permit. His use of GIS data continues to expand to make him more efficient in approving and tracking well permit applications.

RECORDS AND INFORMATION

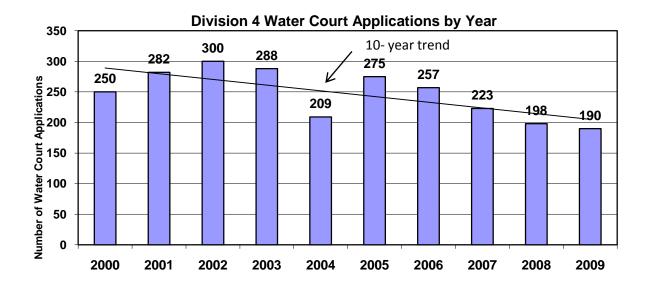
Annual diversion records and reservoir reports for Water Year 2009 were completed on schedule. Our water commissioners put a great deal of emphasis on these records, knowing the value they provide to the Division, water users, and the public. Lynne Bixler again coordinated the data entry and generated the diversion records using a new and updated Hydrobase program. The individual Water Commissioners reviewed each of their diversion records for accuracy and completeness with a minimum of written reports.

Special Projects

Lynne Bixler tabulates water rights for Division 4. The United State Forest Service filed for federal reserved water rights in water court cases W425 through W438, and the subsequent appropriative rights case for the Forest Service, signed by the judge in 1994, which amounts to 2,402 structures in Water Division 4. For the past three winters, Lynne has completed been working on tabulating the decree. It hasn't been easy. Lynne has been working with the Grand Mesa Upper Gunnison Forest Service office on acquiring UTM locations for the structures and unique names so all of these water right may be correctly tabulated. Most of this work is done by field staff during the summer and it is work added to their other duties, so the location data has been slow in coming, but never-the-less it is trickling in. Lynne's database management skills are invaluable for projects like this one. As of this report, Lynne is down to a few dozen structures that will hopefully be tabulated in 2010.

COURT HEARINGS AND CONSULTATIONS

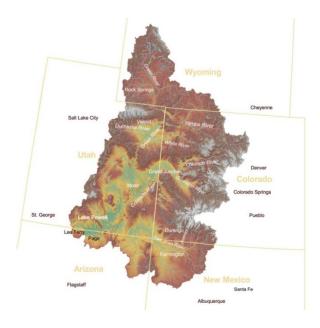
There were 190 Water Right Applications filed in Division 4 this year, a slight decrease from last year's 198 and below the 10-year running average of 247 applications. While the trend in the number of water rights applications is decreasing, the level of complexity appears to be increasing with numerous changes of water rights and plans for augmentation.



Staff devotes considerable time in preparing Summary of Consultation Reports, reviewing Proposed Rulings and preparing subsequent comments, and answering questions from applicants or their attorneys. The Division 4 staff (Bob Hurford and Eric Weig) work diligently, in cooperation with Water Referee S. Gregg Stanway, to ensure decrees are clear, concise and easily administered by providing detailed Consultations and reviewing and commenting on all Proposed Rulings. Water Commissioner Eric Weig, a valuable asset to Division 4 in the water court process, assists the Division Engineer and the Assistant Division Engineer in preparing draft consultations. Bob and Eric have been working with former Referee Clay and current Referee Stanway to reduce the backlog of cases that have stalled for various reasons to get these cases finished and a decree by the judge entered. Regular meetings are also held between Referee Stanway and the Division 4 staff to identify the backlog of stalled cases and scheduling status conferences to move those cases to closure. Gina DeArcos is the new Program Assistant responsible for filing and retrieving Water Court documents via the LexisNexis file and serve system.

This year, the Assistant Division Engineer and/or Division Engineer, physically attended 105 status conferences and three on-site or informal hearings with the Referee; three hearings with the Judge; and one court trial. This is a substantial time commitment, but it is important in maintaining a good working relationship with Referee Stanway and Water Judge Steven J. Patrick. Bob also attended many field inspections, which included meetings with water users for Water Court cases. There were a multitude of conferences with applicants, consultants and attorneys to address issues related with applications, engineering reports, and proposed rulings such that a decree may eventually be entered by the court.

THE EIS PROCESS FOR THE ASPINALL UNIT



Established in 1988, the Upper Colorado River Endangered Fish Recovery Program is a partnership of public and private organizations working to recover four endangered species (the Colorado pikeminnow, razorback sucker, humpback chub and bonytail) that once thrived in the Colorado River system, while allowing continued and future water development. Essentially, the effort is in response to Endangered Species Act requirements to address and mitigate the impacts that Bureau of Reclamation projects have on the survival of these species.

Upper Colorado River Endangered Fish Recovery Program Area

There exist many strategies for the recovery of these species. The focus of this brief report is to explain how the Bureau of Reclamation intends to comply with the Endangered Species Act and mitigate impacts to the four endangered fish caused by their projects in the Gunnison River basin. The strategy is a



Colorado Pike Minnow

two pronged approach: The re-operation of the Aspinall Unit to provide recommended seasonal peak flows in the lower Gunnison River; and, the implementation of a Selenium Management Program.

The Aspinall Unit (a Bureau of Reclamation project) is located on the Gunnison River in Gunnison and Montrose Counties, and consists of Blue Mesa, Morrow Point, and Crystal Dams, Reservoirs, and Powerplants. Blue Mesa Reservoir is the most upstream reservoir of the three and is the largest reservoir in Colorado. Blue Mesa and Morrow Point Powerplants operate to meet peaking power demands while Crystal Reservoir, the most downstream



Razorback Sucker

reservoir, is operated to regulate flows in the Gunnison River, in addition to power generation.

The Bureau of Reclamation prepared a draft environmental impact statement (EIS) for review and comment by cooperating agencies on alternative operations of the Aspinall Unit. The EIS describes effects of operational changes (changes

in the rate and timing of water releases to the Gunnison River) at the Aspinall Unit based on flow recommendations for the Gunnison River prepared by the Upper Colorado River Basin Recovery Program to assist in the recovery of endangered fish. The EIS evaluates alternative operations that assist in meeting the flow recommendations while maintaining the congressionally authorized purposes of the Aspinall Unit, described below.



Boneytail

The Aspinall Unit was authorized under the Colorado River Storage Project Act of 1956 which calls for the unit to be operated for multiple purposes including regulating the flow of the Colorado River; storing water for beneficial consumptive use; controlling floods; providing for the generation of hydropower; providing for fish and wildlife enhancement and recreation; and allowing the Upper Basin States to develop

Colorado River Compact apportioned waters. In summary, the State of Colorado has taken necessary action ensure the re-operation of the Aspinall Unit "maintained its authorized purposes" and would center on maximizing the Aspinall Unit flexibility for the benefit of all the resources, not just solely to meet environmental needs. Colorado also had to ensure it could develop its Compact entitled water.

At the time of this report, the Final EIS has been issued and a Programmatic Biological Opinion (PBO) has been completed by the US Fish and Wildlife Service. The EIS preferred alternative calls for higher spring flows and moderate base flows with a peak flow target at Whitewater based on the April to July forecasted inflow to Blue Mesa Reservoir. The PBO concludes existing depletions and elevated selenium levels are adversely affecting endangered fish. However, the reoperation of Aspinall Unit and implementation of a Selenium Management Program (SMP) will allow the Bureau of Reclamation to achieve Endangered Species Act compliance for new Aspinall operations, existing depletions, and limited new depletions.

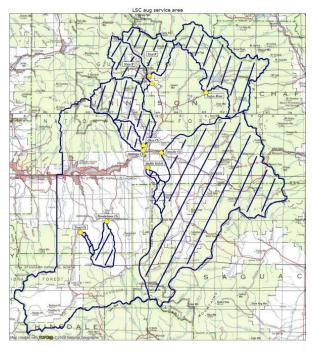
The SMP is cooperative effort to reduce selenium loading to Gunnison River. While selenium is a trace mineral essential to life, elevated concentrations of soluble selenium are deleterious to development and reproduction of fish and water fowl. Most of the selenium loading in the lower Colorado originates from irrigated lands in the Uncompandere Valley, lands irrigated by project water stored in the Aspinall Unit and Ridgeway Reservoir.

A "Record of Decision," which is a final federal decision making event in the EIS process is expected to occur in 2010.

Gunnison Basin-wide Augmentation P_{LANS}

03CW049

The Upper Gunnison River Water Conservancy District (UGRWCD) filed case 03CW049 as a basin-wide augmentation plan to cover upper basin depletions by using Blue Mesa Reservoir. The District contracted for 500 acre-feet of Blue Mesa Reservoir water from the USBR. This plan will allow junior users to continue diversions in the event of calls from either the Gunnison Tunnel or Redlands Power Canal. A Substitute Water Supply Plan was renewed for 2005, and the final decree is still pending as of this writing. In 2007, they again renewed the Substitute Water Supply Plan. However, their five years expires in 2008 and they must make a special request to the Water Judge to be granted extra time. It is expected that the Judge will grant them additional time if the parties involved with the case are close to reaching a settlement.



UGRWCD Svc Area, Excludes Hatched Area

At issue are a few certain structures in the Ohio Creek basin for which coverage under the basin-wide augmentation plan leaves the subject structure at risk to a local call, namely a CWCB instream flow call. In addition, the CWCB is concerned that maximum amounts are not quantified for specific exchange reaches within the scope of this filing. Discussions

between CWCB and UGRWCD have stalled because of these issues. UGRWCD may request the case be referred back to the judge.

03CW108

In a similar filing, the UGRWCD filed 03CW108 as a basin-wide augmentation plan to cover upper basin depletions by using a 946 acre-feet pool in Lake San Cristobal. The applicants intend to control the lake level surface between 8,992 feet and 8,995 feet by means operation of the outlet structure of a proposed dam. This new source of augmentation water will provide replacement water for present and future domestic, irrigation, and evaporative consumptive use in the Lake Fork, Cebolla Creek, and Upper Gunnison River Basins. Exchanges currently being allowed up the Lake Fork from Blue Mesa would no longer be necessary. Thus, reducing depletions to the Lake Fork from the dam at Lake San Cristobal to Blue Mesa Reservoir. The main issue is that the CWCB holds a natural lake level water right in Lake San Cristobal at 8,995 feet. This proposal will inundate the CWCB water right. However, it is generally recognized at this point the level is at least partially in error, since the natural level has never been 8,995. Given this situation, the CWCB has been working with UGRWCD on an acceptable mitigation strategy.

Gunnison Basin Roundtable

The Colorado Water for the 21st Century Act passed during the 2005 Legislative session "Concerning the Negotiation of Inter-basin Compacts Regarding the Equitable Division of the State's Waters." This Act is also known as House Bill 05-1177, now codified as Sections 37-75-101, *et seq.*, Colorado Revised Statutes. To facilitate continued discussions within and between basins on water management issues, and to encourage locally driven cooperative solutions to water supply challenges, HB 05-1177 created nine permanent basin "Roundtables". The purpose of the Gunnison Basin Roundtable is to cooperatively act to develop long-term solutions to conserve, protect and defend the waters of the Gunnison Basin for the use, enjoyment and benefit of the people of the Gunnison Basin.

The Division Engineer has attended most of the regularly scheduled monthly meetings of the Roundtable group to provide technical assistance. This has been particularly helpful to the Roundtable as the process of screening and selecting those projects that receive funding from SB 06-179 or HB1400 continues. There are 32 members of the Gunnison Basin Roundtable.

The Interbasin Compact Committee (IBCC) has two representatives from the Gunnison Basin: Bill Trampe, a rancher from Gunnison, and Marc Catlin, manager of the UVWUA. This 27-member committee was created pursuant to the Act for the purpose of facilitating the process of interbasin compact negotiations.

Each Basin Roundtable is charged with developing a basin-wide water needs assessment consisting of four parts: 1) An assessment of consumptive water needs (municipal, industrial, and agricultural); 2) An assessment of non-consumptive water needs (environmental and recreational); 3) An assessment of available water supplies (surface and groundwater) and an analysis of any unappropriated waters; and, 4) Proposed projects or methods to meet any identified water needs and achieve water supply sustainability over time.

The Gunnison Basin Roundtable continued to make steady progress in 2009 working on the first three parts of the basin-wide assessments in parallel. The Roundtable is receiving technical assistance in the completion of part one and part two of the assessment. The State received funding in 2007 and contracted out the water availability study work in 2008 to a water resources consulting firm, CDM. CDM has packaged the work in the form of several milestones or tasks, which they intended on completing in the form of a final report by the end of the State's fiscal year June 2010. The milestones or tasks identify and quantify the needs or work product described as follwos: Municipal and Industrial Demands, Non-Consumptive Needs, Agricultural Needs, Consumptive Gap Analysis, Basin Roundtable Support, and a Final Report. We look forward to the successful completion of the work.

INVOLVEMENT WITH THE COMMUNITY

Past experience has revealed the extreme importance of having respectful and trusting relationships with the variety of water use organizations and members of the community. Without such trust and respect, this office would have limited effectiveness. Division 4 appears to be somewhat unique, wherein the major water user groups work together with the government organizations for the betterment of the basin. It is a pleasure to be a part of that cooperation.

The Division 4 staff was greatly involved in 2009 with our water users and we see such interaction as an increasingly important part of our responsibility as water stewards. To this end, we frequently attended meetings of the Upper Gunnison River Water Conservancy District, Tri-County Water Conservancy District, North-Fork Water Conservancy District, Uncompandere Valley Water Users Association and its Board of Directors, Farmers Water Development, Surface Creek Ditch and Reservoir Company, Granby Ditch and Reservoir Company, Big Ditch Company and Park Reservoir Company and other water interest groups.

The Division Engineer consistently attended meetings of the Colorado Water Conservation Board, Southwest Water Conservation District in Durango, US Forest Service, Bureau of Land Management, and the US Bureau of Reclamation. Not only is valuable input offered, there is an opportunity to be informed of many other basin issues potentially affecting this office.

Our public involvement included participation on the Gunnison and San Miguel Basin Roundtables, both for the Statewide Water Supply initiative, or SWSI, and the Interbasin Compact Committee. We have worked closely with both the Executive Director's Office of DNR as well as the Colorado Water Conservation Board in providing a local perspective of basin water issues. We helped identify existing water supplies and pointed out areas where future growth might be faced with water shortages.

Many Water Commissioners attend local water user meetings in their communities, a practice strongly encouraged by this office. As they are the local water experts in the area, they can provide local knowledge and valuable input.

Gunnison Tunnel Celebrates 100 Years!



In 1903, Secretary of the Interior Ethan A. Hitchcock authorized the Gunnison Project, one of five federal projects in the west under Reclamation Act of 1902, construction that had begun with \$25,000 in state-appropriated funds in 1901 was resumed in 1904. The first water for irrigation was available during the season of 1908 from the Uncompangre River. The Gunnison Tunnel was completed in 1909 and opened with a grand ceremony in Montrose attended by President

William Howard Taft.

The Gunnison Diversion Dam was completed in January 1912. The project was transferred to the Uncompahgre Valley Water Users Association for operation and maintenance in 1932, along with responsibility for repaying the construction loan from the federal government. Taylor Park Dam, built from funds allotted under the National Industrial Recovery Act and approved by President Roosevelt on November 6, 1935, was completed in 1937. Other improvements were approved in that same Presidential authorization. The original construction loans along with later rehabilitation loans were paid off in full in 1999, 50 years early!

The total cost for all of the constructed facilities within the Uncompahgre Project was \$10,541,560. Water provided by the Gunnison Tunnel was first available for irrigation in 1912. From 1912 to 1971, the total estimated value of all crops grown was \$224,031,778. In 2008, the total estimated value of Uncompahgre Valley crops was \$22 million. Using an economic multiplier of 2.27 (source: UC Davis), the water provided by the Gunnison Tunnel in 2008 generated nearly a \$50 million economic impact in agricultural productivity alone. Quite a return on the original investment!

In 1973, The Gunnison Tunnel was honored by the American Society of Civil Engineers as a National Historic Civil Engineering Landmark. The tunnel was only the 26th structure of man's ingenuity to be accorded that honor. Even today, engineers worldwide still marvel at how the nearly 800 miles of canals, laterals, and drains work more than 1,000 feet of fall in concert with the Uncompander River and pre-existing arroyos to irrigate the valley.

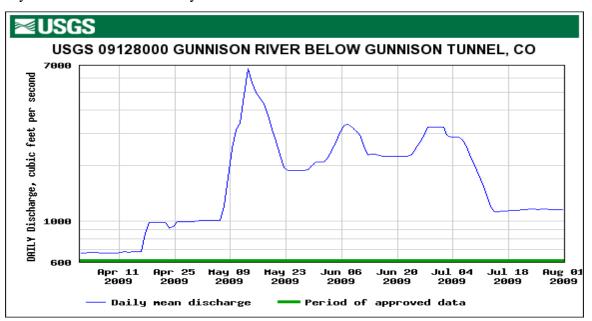
Today, the Uncompahgre Project provides irrigation for over 76,000 acres of land. The Project now includes Taylor Park Dam and Reservoir, the Gunnison Tunnel, 7 diversion dams, 128 miles of main canals, 438 miles of laterals, and 216 miles of drains. Recreationists enjoy Taylor Park Reservoir, where the U.S. Forest Service has provided free camping and picnic grounds.

Influential Case Law, Statutes, And Projects

$B_{\text{LACK}}\,C_{\text{ANYON}}\,N_{\text{ATIONAL}}\,P_{\text{ARK}}\,F_{\text{ILING}}$

A federally reserved water right was decreed by the water court when Judge J. Steven Patrick entered an order on December 31, 2008, approving the decree which quantifies the federal reserved water right in the Black Canyon of the Gunnison National Park (it has adjudication date of March 2, 1933, the date of creation of the Black Canyon National Monument, which of course is now a National Park).

For the first time in the Aspinall Unit's existence, the Bureau of Reclamation's goal for the runoff season 2009 was to manufacture a flood, as opposed to flood control, to meet the peak flow calculation in the decree. The formula for the peak flow through the Gorge (to occur between May 1 and June 30) is described in the decree of course and is based on the May 1st forecasted inflow to Blue Mesa Reservoir. The May 1st forecasted inflow for the 2009 runoff was 690,000 AF, which categorizes this year as an Average Dry Year. The calculation based on the May 1st forecast provides for a peak flow of 5,864cfs. Yet, the first two weeks of May, as described in the first section of this report, became unusually warm and runoff conditions accelerated very rapidly. Between May 1st and May 18th, Blue Mesa gained over 10-feet in storage elevation (over 80,000AF), and over 24-feet gain in elevation for the month of May. Operationally, the goal was to time a spill at Crystal Dam with spill from Silverjack Reservoir (Cimarron River), as the Cimarron River enters the Aspinall Unit above Crystal Dam, but below Morrow Dam, thus, preserving storage in Blue Mesa Reservoir. In other words, time the peak in the Black Canyon with the side inflow from the Cimarron into Crystal Reservoir. At the same time, due to exceptionally high inflow rates into Blue Mesa Reservoir, Morrow went to maximum capacity at 5,500cfs and bypass of 500cfs, which caused a steeper than desired ramping rate in the Black Canyon when combined with the Cimarron flows. Spill at Crystal Dam occurred on May 11th.



By midnight May 12th, flow in the Black Canyon reached 6,860cfs. Flows exceeded the water right of 5,864cfs for 41-hours (16:45 May 12 – 9:45 May 14). An instantaneous peak was measured at 7,430cfs. As you can see, in the water resources world, things don't always work according to a recipe. In talks with USBR, there were a number of challenges during the runoff that significantly affected operations of the Aspinall Unit. First, Colorado River Basin Forecast Center increased its April through July runoff forecast for Blue Mesa Reservoir from 690,000 ac-ft on May 1st to 765,000 ac-ft as of June 1st. In addition, the May runoff into Blue Mesa was 158 percent of average. This combination of events required USBR to significantly increase releases in order to avoid spilling Blue Mesa Reservoir. There are perhaps several reasons for the increase in the forecast which are still being analyzed.

CWCB FILING ON THE SAN MIGUEL RIVER

It is normal for this Division to receive eight to twelve applications from CWCB each year for instream flow rights. Most are not contested and more-or-less sail through the Court system with few complications. But in 2008, the CWCB proposed to file on the lower San Miguel River from its confluence with the Dolores River, up to the headgate of the Highline Canal. The CWCB conducted several public meetings in Norwood and Naturita to explain the reasoning behind the proposed filing and to listen to the concerns of water users. The water users community is concerned that there was no water available for appropriation and that the filings would lock up any ability to change water rights in the future.

The CWCB has explained that the filing is necessary to prevent species of concern in the lower San Miguel River from becoming listed as endangered species, thus inviting federal control over the waters. This office is concerned about the proposed filing because it would eliminate the possibility of filling future storage in the upper San Miguel River basin with a junior diversion during the spring runoff.

At its January 2009 meeting, the CWCB voted to postpone the filing until the situation could be further studied and the concerns of the local interests better addressed. The filing is being postponed once again, until 2011, to allow water users opportunity to make appropriations ahead of the CWCB proposed instream flow right.

Greater Efficiency In Division 4

It has been demonstrated that one of the best ways to increase efficiency in this Division is to learn, adapt and use the latest technology that is available. This usually involves development, training and taking the extra time to learn the latest software and programs. For the most part, we never feel like we have the extra time to continually learn new programs. However, we can't afford to have this attitude; and time invested in learning the new programs eventually will result in a savings of time and a better work product.

For example, Aquamap has many research tools and features which are continually refined and expanded to help staff research and obtain more information about a structure or water right, more quickly and easier than ever. Similarly, Colorado's Surface Water Conditions website is designed to allow users to retrieve real-time and historical data from the State's satellite monitoring system gaging stations. These routine tasks can be customized for each

user so that flow stream flow data may be retrieved, organized, and viewed all within seconds. This type of information is critical for measuring and administration decisions by the water commissioner.

The use of cellular phones continues to provide a significant time and mileage savings for Division 4 operations. Water District 40 in particular has used them extensively in administering and delivering water in the most efficient means possible. The cell phone plans were consolidated into group plans and provided quite a savings in monthly expenses.

Our biggest problem is that as the demand for resources continues to rise, our budget does not keep up the pace; the number of structures, mileage costs, and the cost of supplies continue to increase without a decrease in the workload in any area. So, we are constantly challenged and are looking for ways of getting more done in the same amount of time at a lower cost. One of the ways we are working to accomplish this goal is by working smarter. We use database information, GIS, and online tools to help make decisions about when and where to apply our resources.

In the office we are striving to provide the highest level of service for the public while minimizing field visits using many of the same tools. A great potential for saving time and mileage is with the use of digital stage/discharge recorders. Luke Reschke replaced seven chart recorders with digital stage/discharge records on the main canals in the Uncompahgre Valley Project system in 2009. By having these devices replace chart type flow recorders results in fewer visits to the structures and greater efficiency in processing the diversion records as opposed to working the charts by hand. Another of our goals is to increase the accuracy of the diversion records by automating the process of data entry from spreadsheet form into the records program.

A. TRANSMOUNTAIN DIVERSION SUMMARY --- INFLOWS

		RECIPI	ENT			SOURCE					
	10-Yr Avera						Current Water Year 2009				
WD	ID	NAME	STREAM	STREAM AF Days AF DAYS WD ID STR						STREAM	
40	4520	Leon Lake Tunnel	Surface Creek	1421	72	1332	41	72	4520	Leon Creek	
68	4659	Mineral Pt. Ditch	Uncompahgre River	25	13	0	0	30	4661	Animas River	
68	4660 Red Mountain Ditch Uncompangre River			50	22	0	0	30	4662	Animas River	

B. TRANSMOUNTAIN DIVERSION SUMMARY --- OUTFLOWS

		RECIP	IENT			SOURCE					
				10-Yr <i>A</i>	verage	Current Water Year 2009					
WD	ID	NAME	STREAM	AF	DAYS	AF	DAYS	WD	ID	STREAM	
11	4618	Larkspur Ditch	Arkansas River	177	88	331	149	28	4655	Tomichi Creek	
26	702	Tarbell Transmountain Div.		796	93	505	80	28	4656	Cochetopa Creek	
20	920	Tabor Ditch	Clear Creek	658	135	826	173	62	4600	Cebolla Creek	
45	577	Divide Creek Highline Feeder	Divide Creek	1118	49	2323	65	40	4657	Cl. Fk. Muddy Creek	
72	N/A	Grand Jct. FL & WW	Colorado River	5339	345	880	189	42	513	Kannah Creek	
72	N/A	Purdy Mesa Flowline	Colorado River	2904	182	5627	363	42	561	Kannah Creek	
72	4713	Redlands Canal	Colorado River	488769	317	502079	365	42	541	Gunnison River	
72	4712	Fruita Pipeline	Colorado River	***	***	***	***	73	507	East Creek	

^{*10-}Yr average includes water delivered through Hallenbeck R#1 (ID3618) until 2009

^{**}Water available, none taken

^{***}Water taken, no data available

				MI	NIMUM	MA	XIMUM	
WD	ID	RESERVOIR NAME	SOURCE STREAM	AF	DATE	AF	DATE	END YR
28	3590	Hot Springs R	Hot Springs Cr	202.4	8/1/2009	603.0	5/1/2009	334.7
28	3591	McDonough #1	Los Pinos Cr	368	10/1/2009	805.2	5/1/2009	522.3
28	3592	McDonough #2	Los Pinos Cr	57.9	5/1/2009	486	7/1/2009	57.9
28	3593	Needle Creek	Needle Cr	707.3	10/1/2009	848.6	5/1/2009	741.3
28	3674	Peterson Res	Razor Cr	60	8/1/2009	100	5/1/2009	100
28	3594	Upper Dome R	Cochetopa Cr	880.2	5/1/2009	880.2	10/31/2009	880.2
28	3595	Vouga Res	Razor Cr	605	10/1/2009	910	5/1/2009	685
40	3450	Basin #1	Dirty George C	0	11/1/2008	135	6/3/2009	0
40	3451	Basin #2	Dirty George C	0	11/1/2008	45.93	6/3/2009	0
40	3452	Battlement 1	Dirty George C	87.4	11/1/2008	87.4	11/1/2008	87.4
40	3453	Battlement 2	Dirty George C	122.86	11/1/2008	537.10	6/2/2009	382.28
40	3368	Beaver Dam	Escalante Cr	0	11/1/2008	396.5	7/1/2009	0
40	3406	Beaver Res	Minnesota Cr	0	11/1/2008	1573	7/1/2009	0
40	3341	Bonita	Surface Cr	0	11/1/2008	229.91	7/1/2009	0
40	3392	Bottle Stomp R	Iron Cr	0	8/5/2009	13	7/17/2009	0
40	3303	Boulder Lake 1	Ward Cr	0	11/1/2008	0	11/1/2008	0
40	3421	Brockman 1 R	Leroux Cr	0	8/20/2009	16	5/1/2009	0
40	3422	Brockman 2 R	Leroux Cr	0	8/20/2009	41	5/1/2009	0
40	3413	Bruce Park Res	Terror Cr	18	10/1/2009	556	6/1/2009	32
40	3304	Bull Finch 1	Kiser Cr	0	9/1/2009	72.42	6/1/2009	0
40	3305	Bull Finch 2	Kiser Cr	0	9/2/2009	39.24	6/1/2009	0
40	3342	Cabin Lake	Surface Cr	0	11/1/2008	27	5/7/2009	0
40	3378	Calumet	Surface Cr	0	11/1/2008	15.16	5/1/2009	0
40	3366	Carbonate Cmp 3	Surface Cr	0	7/13/2009	10.7	5/15/2009	0
40	3306	Carbonate Cmp 6	Youngs Cr	16.38	9/1/2009	129.58	5/5/2009	16.38
40	3307	Carbonate Cmp 7	Youngs Cr	0	11/1/2008	107.58	6/1/2009	0
40	3423	Carl Smith R	Leroux Cr	388	9/11/2009	890	7/16/2009	390
40	3343	Cedar Mesa	Surface Cr	231.35	11/1/2008	902	6/1/2009	259.75
40	3370	Clark Res	Oak Cr	5.5	11/1/2008	43.8	5/18/2009	38

				MI	NIMUM	MA	XIMUM	
WD	ID	RESERVOIR NAME	SOURCE STREAM	AF	DATE	AF	DATE	END YR
40	3379	Cole 1	Surface Cr	0	11/1/2008	26.7	6/1/2009	0
40	3380	Cole 2	Surface Cr	0	11/1/2008	17.22	6/1/2009	0
40	3381	Cole 3 (Chy Ln)	Surface Cr	0	11/1/2008	54.10	7/1/2009	0
40	3344	Cole 4	Surface Cr	0	11/1/2008	18	5/15/2009	0
40	3345	Cole 5	Surface Cr	0	11/1/2008	116.23	5/8/2009	0
40	3553	Crawford Res	Smith Fork	4900	10/23/2009	14485	6/1/2009	4960
40	3308	Daniels SI	Kiser Cr	90.99	11/1/2008	236.8	6/1/2009	130.51
40	3309	Deep Slough	Ward Cr	41.6	11/1/2008	464.52	5/1/2009	51.2
40	3310	Deep Ward	Ward Cr	441.2	10/31/2009	1700	6/1/2009	441.2
40	3346	Deserted Park	Surface Cr	0	11/1/2008	41.74	6/1/2009	0
40	3424	Dog Fish Res	Leroux Cr	0	10/8/2009	243	5/1/2009	0
40	3394	Don Meek 1	Crystal Cr	0	6/22/2009	3	5/21/2009	0
40	3311	Donnelly SI	Kiser Cr	49.53	11/1/2008	270.66	6/1/2009	152.22
40	3382	Doughty 1	Surface Cr	0	11/1/2008	0	11/1/2009	0
40	3383	Doughty 2	Surface Cr	0	11/1/2008	0	11/1/2009	0
40	3425	Dowdy Res	Leroux Cr	264	11/1/2008	264	7/4/2009	264
40	3347	Dreyfus	Surface Cr	0	11/1/2008	44.18	5/8/2009	17.99
40	3373	Dugger Res	Oak Cr	186.75	11/1/2008	212.1	5/18/2009	195
40	3414	East Beckwith	Anthracite	182	11/1/2008	356	6/7/2009	209
40	3312	Eggleston Lake	Kiser Cr	920.4	10/31/2009	2705	7/1/2009	920.4
40	3348	Elk Park	Surface Cr	46	11/1/2008	96.83	5/5/2009	96.83
40	3427	Elk Wallows R	Leroux Cr	0	10/1/2009	218	5/1/2009	0
40	3426	Ella Res	Leroux Cr	0	8/15/2009	98	5/1/2009	0
40	3428	Ellington Cook	Leroux Cr	0	8/15/2009	24.5	5/1/2009	0
40	3549	Eureka 1	Youngs Cr	0	11/1/2008	27.1	6/1/2009	0
40	3349	Eureka 2	Youngs Cr	0	11/1/2008	53.47	6/1/2009	0
40	3429	Fairmont Park	Leroux Cr	0	9/15/2009	30	5/1/2009	0
40	3430	Fairmont Res	Leroux Cr	0	10/4/2009	78	5/1/2009	0
40	3350	Fish Lake	Surface Cr	13.93	10/1/2009	76.93	5/1/2009	13.93
40	3431	Fisher Res	Leroux Cr	2	8/1/2009	10	5/1/2009	2

				MINIMUM MAXIMUM				
WD	ID	RESERVOIR NAME	SOURCE STREAM	AF	DATE	AF	DATE	END YR
40	3313	Forrest	Ward Cr	0	11/1/2008	74.68	7/1/2009	0
40	3365	Fruitgrowers	Alfalfa Run	250	11/1/2008	3576	7/1/2009	471
40	3395	Fruitland Res	Crystal Cr	0	9/7/2009	9073	5/13/2009	0
40	3314	Goodenough	Kiser Cr	14.2	10/31/2009	150.42	5/5/2009	14.2
40	3432	Goodenough #2 Res	Leroux Cr	0	10/4/2009	750	7/1/2009	0
40	3459	Granby 12	Dirty George C	213.83	7/1/2009	216.82	11/1/2008	213.83
40	3454	Granby 5-11	Dirty George C	0	10/19/2009	775	5/5/2009	0
40	3455	Granby 6	Dirty George C	13.57	9/1/2009	45.98	6/1/2009	13.57
40	3456	Granby 7	Dirty George C	43.98	9/1/2009	76.08	6/1/2009	43.98
40	3457	Granby 8	Dirty George C	6.15	11/1/2008	11.5	10/31/2009	11.5
40	3458	Granby 9	Dirty George C	0	10/31/2009	71.97	5/6/2009	0
40	3433	Gray Res	Leroux Cr	0	10/2/2009	423	5/1/2009	0
40	3351	Greenwood	Surface Cr	0	11/1/2008	73.59	6/1/2009	0
40	3384	Hale	Surface Cr	0	11/1/2008	32.96	6/1/2009	0
40	3435	Hanson #2 Res	Leroux Cr	0	9/3/2009	225	5/1/2009	0
40	3460	Hartman	Leroux Cr	0	10/1/2009	10	5/1/2009	0
40	3436	Holy Terror R	Terror Cr	0	8/25/2009	146	5/1/2009	0
40	3315	Hotel Twin L	Ward Creek	374.3	10/31/2009	548.7	11/1/2008	374.3
40	3316	Howard	Kiser Cr	63.5	11/1/2008	72.10	5/4/2009	63.5
40	3437	Hunt Res	Leroux Cr	10	11/1/2008	124	5/13/2009	10
40	3317	Island Lake	Ward Cr	438.5	11/1/2008	1426.36	7/1/2009	777.28
40	3884	Kathy's Res No2	Muddy Cr	0	11/1/2008	22	6/3/2009	0
40	3883	Kathy's Res. No1	Muddy Creek	10	11/1/2008	44	6/3/2009	30
40	3352	Kehmeier	Surface Cr	81.37	10/1/2009	298.89	11/1/2008	81.37
40	3318	Kennicott SI	Kiser Cr	0	10/31/2009	1001.68	6/1/2009	0
40	3319	Kiser Slough	Surface Cr	187.6	10/31/2009	512	5/1/2009	187.6
40	3353	Knox	Surface Cr	58.27	11/1/2008	219.46	6/4/2009	63.07
40	4520	Leon Lake	Leon Cr	662.16	10/1/2009	1966.62	7/22/2009	662.16
40	3385	Leon Park	Surface Cr	0	11/1/2008	160.09	7/1/2009	0
40	3320	Lilly Pad	Youngs Cr	0	11/1/2008	41.72	6/1/2009	0

				MI	MINIMUM MAXIMUM			
WD	ID	RESERVOIR NAME	SOURCE STREAM	AF	DATE	AF	DATE	END YR
40	3321	Little Gem	Ward Cr	92.4	11/1/2008	208.5	5/7/2009	170.9
40	3386	Little Giant 1	Surface Cr	0	11/1/2008	43.97	5/13/2009	0
40	3387	Little Giant 2	Surface Cr	0	11/1/2008	0	11/1/2008	0
40	3322	Little Grouse	Youngs Cr	9.5	10/31/2009	52.5	5/5/2009	9.5
40	3407	Lone Cabin R	Minnesota Cr	0	11/1/2008	126	5/15/2009	0
40	3464	Lone Starr	Gunnison River	30	10/26/2009	70	8/2/2009	30
40	3714	Lucas Cline R	Reynolds	0	11/1/2008	9	4/20/2009	0
40	3438	Lucky Find Res	Leroux Cr	0	8/25/2009	66	5/1/2009	0
40	3388	Marcott	Surface Cr	0	8/1/2009	447.96	6/1/2009	0
40	3323	McKoon	Youngs Cr	59.57	10/31/2009	147.86	6/1/2009	59.57
40	3397	Meek Res	Iron Cr	6.50	11/1/2008	29	6/26/2009	14
40	3354	Military	Surface Cr	62.4	11/1/2008	236.6	5/5/2009	82.8
40	3439	Miller Res	Leroux Cr	0	8/20/2009	20	5/1/2009	0
40	3408	Monument Res	Minnesota Cr	0	11/1/2008	387	5/22/2009	0
40	3374	Morris 2	Oak Cr	11.28	11/1/2008	16.33	5/18/2009	13.76
40	3597	Oasis	Dry Creek	64	8/1/2009	90	10/27/2009	90
40	3399	Overland Res 1	Muddy Cr	50	10/26/2009	6200	6/30/2009	50
40	3440	Owens Res	Leroux Cr	0	9/10/2009	92	5/1/2009	0
40	3324	P C & G 1	Kiser Cr	0	10/31/2009	25.44	5/13/2009	0
40	3416	Paonia Res	Muddy Cr	398	10/6/2009	15950	6/1/2009	867
40	3355	Park	Surface Cr	482.7	10/31/2009	3383.4	6/8/2009	482.7
40	3441	Patterson #1 Res	Leroux Cr	0	10/5/2009	78	5/1/2009	0
40	3442	Patterson #2 Res	Leroux Cr	50	10/5/2009	145	5/1/2009	50
40	3473	Paulson	Dry Creek	20	10/27/2009	50	10/2/2009	20
40	3325	Pedro	Youngs Cr	42.2	10/31/2009	182.09	6/1/2009	42.2
40	3326	Pine	Youngs Cr	0	11/1/2008	12.21	6/1/2009	0
40	3443	Pine Cone Res	Leroux Cr	0	9/5/2009	37	5/1/2009	0
40	3375	Pitcarin Res	Doughspoon Cr	63.14	11/1/2008	75.95	5/18/2009	67.29
40	3400	Poison Spr Res	Gunnison R	47	11/1/2009	123	4/30/2009	84
40	3376	Porter 1	Oak Cr	28.26	11/1/2008	201.76	5/18/2009	169.42

				MI	NIMUM	MA	XIMUM	
WD	ID	RESERVOIR NAME	SOURCE STREAM	AF	DATE	AF	DATE	END YR
40	3377	Porter 4	Oak Cr	38	11/1/2008	38	11/1/2008	38
40	3327	Prebble	Youngs Cr	104.46	10/1/2009	193.05	5/5/2009	104.46
40	3445	Rex Res	Terror Cr	0	8/20/2009	10	5/1/2009	0
40	3409	Reynolds Res	Bell Creek	20	11/1/2008	100	6/22/2009	30
40	3444	Reynolds Res	Leroux Cr	0	8/27/2009	176	5/1/2009	0
40	3328	Rim Rock Lake	Ward Cr	0	9/2/2009	107.9	5/11/2009	0
40	3329	Rockland	Ward Cr	0	11/1/2008	13.03	7/7/2009	0
40	3401	Rockwell Res No1	Iron Cr	103	10/5/2009	118	5/22/2009	103
40	3410	Roeber Res	Reynolds	0	11/1/2008	44	4/20/2009	0
40	3356	Round Lake	Surface Cr	0	11/1/2008	18.5	6/1/2009	0
40	3330	Ryan	Youngs Cr	0	11/1/2008	0	11/1/2008	0
40	3357	Sackett	Surface Cr	47.18	10/1/2009	108	11/1/2008	47.18
40	3331	Safety 1 & 2	Cottonwood Cr	0	11/1/2008	15	5/7/2009	0
40	3332	Scotland Peak	Ward Cr	54.88	11/1/2008	136.98	7/1/2009	81.2
40	3333	Sheep Lake	Ward Cr	34.87	10/31/2009	154	11/1/2008	34.87
40	3446	Skim Milk	Leroux Cr	0	8/30/2009	90	5/1/2009	0
40	3544	Skinned Horse	Ward Cr	4	11/1/2008	55	6/1/2009	4
40	3417	Spatafora Res	Muddy Cr	0	11/1/2008	100	6/1/2009	3
40	3358	Stell	Surface Cr	47.86	9/1/2009	65	6/1/2009	47.86
40	3418	Tomahawk Res	Muddy Cr	42	10/28/2009	88	11/1/2008	42
40	3389	Trickle	Surface Cr	0	8/1/2009	37.23	11/1/2008	0
40	3359	Trio	Surface Cr	56.02	9/1/2009	164.3	6/1/2009	56.02
40	3360	Twin Lake 1	Surface Cr	0	11/1/2008	110.1	7/1/2009	0
40	3361	Twin Lake 2	Surface Cr	91.65	10/12/2009	111.98	5/14/2009	91.65
40	3403	Tyler Res	Iron Cr	108	10/27/2009	169	5/8/2009	108
40	3466	Upper Eggleston	Kiser Cr	50	9/1/2009	220	5/4/2009	50
40	3334	Upper Hotel L	Ward Cr	0	10/1/2009	102.82	11/1/2008	0
40	3362	Vela	Surface Cr	157.16	11/1/2008	436.62	5/14/2009	193.6
40	3335	Ward Cr	Ward Cr	41.54	11/1/2008	284.42	5/1/2009	45.65
40	3447	Wash Tub Res	Leroux Cr	0	7/30/2009	25	5/1/2009	0

				MI	NIMUM	MA	XIMUM	
WD	ID	RESERVOIR NAME	SOURCE STREAM	AF	DATE	AF	DATE	END YR
40	3448	Water Bug Res	Leroux Cr	0	8/28/2009	40	5/1/2009	0
40	3364	Weir Park	Surface Cr	0	11/1/2008	40.73	6/21/2009	0
40	3363	Weir/Johnson 2	Surface Cr	327.56	10/1/2009	616.86	11/1/2008	327.56
40	3411	West Res	Jay Cr	100	11/1/2008	291	5/13/2009	126
40	3419	Williams Cr Lake	Muddy Cr	31	10/1/2009	100	6/1/2009	40
40	3449	Willow Res	Leroux Cr	0	8/20/2009	128	5/1/2009	0
40	3336	Womack 1	Ward Cr	0	11/1/2008	195.5	5/19/2009	171.4
40	3337	Womack 2 & 3	Cottonwood Cr	0	11/1/2008	156.25	5/13/2009	0
40	3340	Womack 5	Cottonwood Cr	0	11/1/2008	28.96	5/13/2009	0
40	3390	Y & S	Surface Cr	0	10/1/2009	188.63	7/1/2009	0
40	3338	Young Cr 1 & 2	Youngs Cr	74.31	10/31/2009	642.67	7/1/2009	74.31
40	3339	Youngs Cr 3	Youngs Cr	71.27	10/31/2009	200.62	8/23/1901	71.27
42	3606	Deep Cr R 2	Kannah Cr	0	11/1/2008	353	7/1/2009	0
42	3607	Dry Cr R Sup	Kannah Cr	0	11/1/2008	236	6/1/2009	0
42	3608	Flowing Pk R	Kannah Cr	366	10/15/2009	786	7/1/2009	366
42	3610	Fruita Res 2	East Cr	40	9/23/2009	167	5/12/2009	41
42	3614	Grand Mesa R 1	Kannah Cr	30	10/15/2009	521	6/1/2009	30
42	3615	Grand Mesa R 6	Kannah Cr	0	11/1/2008	210	6/1/2009	0
42	3616	Grand Mesa R 8	Kannah Cr	0	11/1/2008	379	6/1/2009	0
42	3617	Grand Mesa R 9	Kannah Cr	0	10/31/2009	153	6/1/2009	0
42	3618	Hallenbeck R 1	Kannah Cr	89	10/31/2009	612	7/1/2009	89
42	3619	Hallenbeck R 2	Kannah Cr	0	11/1/2008	459	6/1/2009	10
42	3620	Juniata Res	Kannah Cr	4665	11/1/2008	6868	6/1/2009	5447
42	3623	Scales Res 1	Kannah CR	0	11/1/2008	202	6/1/2009	0
42	3624	Scales Res 3	Kannah Cr	0	11/1/2008	128	6/1/2009	0
42	3625	Somerville R 1	Whitewater Cr	72	10/15/2009	896	7/1/2009	72
59	3684	Lake Grant	Slate River	240	10/17/2009	282	4/18/2009	240
59	2689	Meridian Lake Park	Washington Gulch/Slate River	105	8/8/2009	123	4/21/2009	123

				MI	NIMUM	MA	XIMUM	
WD	ID	RESERVOIR NAME	SOURCE STREAM	AF	DATE	AF	DATE	END YR
59	3663	Meridian Lake Res.	Washington Gulch	414	2/4/2009	461	5/8/2009	427
59	3665	Spring Creek	Taylor River	1207	10/12/2009	1720	6/12/2009	1207
59	3666	Taylor Park	Taylor River	70883	3/20/2009	105173	6/27/2009	72465
60	3507	Gurley Reservoir	Maverick Draw	1416	10/31/2009	9278	5/18/2009	1416
60	3510	Lilylands Reservoir	Naturita Creek	24	10/31/2009	494	5/19/2009	24
60	3510	Lone Cone Reservoir	Naturita Creek	215	10/31/2010	1840	5/26/2009	215
60	3511	Miramonte Reservoir	Naturita Creek	6173	10/31/2009	6851	4/24/2009	6173
60	3512	Paxton Reservoir	Horsefly Creek	01/3	10/31/2009	0031	4/24/2003	01/3
60	3513	Trout Lake Reservoir	Lake Fork, San Miguel River	1400	4/22/2009	3286	6/12/2009	2768
					, ,			
61	3551	Buckeye Reservoir	Buckeye Creek	185	10/29/209	1786	6/11/2009	196
62	3532	Blue Mesa Reservoir	Gunnison River	537928	4/8/2009	827241	6/26/2009	603247
62	3578	Crystal Reservoir	Gunnison River	12602	1/18/2009	18906	5/12/2009	16624
62	3545	Morrow Point Res	Gunnison River	93143	9/16/2009	117518	5/11/2009	107680
62	3548	Silverjack Reservoir	Big Cimarron	1874	12/1/2009	13381	5/12/2009	2505
63	3643	Casto Res	West Cr	507.76	11/1/2008	752.29	5/31/2009	3.95
63	3644	Craig Res No 1	West Cr	10.00	11/1/2008	271.08	5/31/2009	0
63	3640	Craig Res No 2	West Cr	0	11/1/2008	629	5/31/2009	308.08
68	3675	Ridgway	Uncompahgre R	58515	9/10/2009	85778	6/6/2009	62775
		,			, ,		. , -	
73	3612	Duval Res	Chiquito Dolores Cr	48.99	11/1/2008	102.4	5/31/2009	43.24
73	3621	Fruita Res No 3	Chiquito Dolores Creek	8.05	11/1/2008	41.9	5/31/2009	9.3

WATER DIVERSION SUMMARIES Water Year 2009

		STRUCT	URES REPO	ORTING		А	LL STRUCTUR	RES		TO IRRIGATION		
			No					Total				
	With	No Water	Water	No Info	No	Estimated	Total	Diversion	Total	Number of		
	Record	Available	Taken	Available	Record	# Visits to	Diversion	to Storage	Diversions	Acres	Average AF	
WD	(1)	(2)	(3)	(4)	(5)	Structure	AF	AF	AF	Irrigated*	Per Acre	
28	242	15	25	22		3879	178540	0	175178			
40	1007	4	87	3		14467	612753	80611	494185			
41	59	0	3	15		2461	1009655	775	687462			
42	77	0	5	3		4580	545266	9398	20738			
59	264	0	13	13		3314	1040433	39053	373814			
60	174	3	35	21		1440	142080	25415	90046			
61	25	0	6	14		715	13843	3981	9299			
62	221	2	13	7		3917	4022744	414421	132696			
63	63	2	6	0		1202	20870	1437	20648			
68	172	2	37	38		2688	160438	31510	114407			
73	31	0	1	2		578	5371	124	5292			
Total	2335	28	231	138		39241	7751993	606725	2123765	286094	7.4	

^{*}Source: Colorado Division of Water Resources, November 2009

WATER DIVERSION SUMMARIES TO VARIOUS USES Water Year 2009

WD	Trans Mtn Outflow	Trans Basin Outflow	Municipal	Commercial	Industrial	Recreation	Fishery	Domestic- Houshold	Stock
28	836		0		0	0	2520		0
40	2323		4184		2721	0	6870		16654
41	0	0	9653		0	0	0	0	725
42	508434	439	0		749	0	0	65	
59	0	0	2551	0	0	472256	7185	58	0
60	0	0	1042	0	1814	0	0	74	502
61	0	0	0	0	0	0	0	103	143
62	827	420734	655	0	0	0	13857	19	2490
63	0	0	0	0	3	0	0	0	0
68	0	0	2262	0	0	428	446	140	8795
73	0	0	0	0	0	0	0	0	10
Total	512420	422558	20347	24	5287	472684	30878	2226	29319

WATER DIVERSION SUMMARIES TO VARIOUS USES , continued Water Year 2009

					Min Stream	Power			
WD	Augmentation	Evaporation	GeoThermal	Snowmaking	Flow	Generation	Wildlife	Recharge	Other
28	0	0	0	0	0	0	0	0	0
40	266	4567	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0
42	0	1685	0	0	0	0	0	0	0
59	20	3208	0	241	142046	0	0	0	0
60	20	0	0	16	0	23151	0	0	0
61	0	0	0	0	0	0	0	318	0
62	0	30195	0	0	0	3006849	0	0	0
63	0	161	0	0	0	25	0	0	0
68	0	2378	0	0	0	0	72	0	0
73	0	13	0	0	0	0	0	0	0
Total	306	42207	0	257	142046	3030025	72	318	0

2009 Water Court Activities

191

Applications for Decrees

Consultations with Referee		200
Decrees Issued by Water Court		188
Dismissals		3
Complaints		0
	Structures	Cases
New Conditional Water Rights Filed	127	50
New Absolute Water Rights Filed	147	65
New Diligence on Conditional Rights Filed	166	58
New Change of Water Rights Filed	63	23
New Conditional to Absolute Apps Filed	44	34
New Augmentation Plans Filed	11	11
Cancellations of Conditional Rights	0	0
Underground Water Rights Adjudicated	75	29
Surface Water Rights Adjudicated	279	137
Water Storage Rights Adjudicated	111	61
Plans for Augmentation Adjudicated	16	16
Change of Water Rights / Use Adjudicated	31	20
In-stream Flow Rights Adjudicated	13	13

	Division 4 2009 River Calls								
Stream Affected	Name of Calling Structure	Admin # of Calling Structure	Date of Call	Duration of Call	Person Placing Call	Most Senior Curtailed Structure	Admin # of the Most Senior Curtailed Structure		
Water District 28							_		
Razor Creek	Razor Creek Ditch/Hirdman 2	10737.00000	, ,		Greg Peterson	Snyder Ditches No. 1 & 2	11109.00000		
	Kennedy No 1 & 2	10301.00000			Greg Peterson	Snyder Ditches No. 1 & 2	11109.00000		
	Hirdman Ditch 1,2,3	10743.00000	4/14/2009	Season	Greg Peterson	Snyder Ditches No. 1 & 2	11109.00000		
Water District 40									
Alfalfa Run	Circle Ditch	25807.17968	6/10/2009	11/1/2009	Mike Thomas	Stell Buttes	25807.23345		
Alfalfa Run	Stell Buttes Enl.	25807.23345	6/10/2009	11/1/2009	Mike Thomas	Fruitgrowers	38064.31950		
Alfalfa Run	Fruitgrowers Res.	38064.3195	6/10/2009	11/1/2009	Mike Thomas	Peterson Ditch	Non-decreed		
Bell Creek	North Fork Orchard	12174.00000	6/4/2009	Season	Norm Smith	H.A. Smith	31924.14413		
Crystal Creek	Cedar Canyon Iron Spgs Ditch	12350.00000	7/7/2009	Irr. Season	L. McLaughlin	Dyer Fork Ditch	21263.18762		
Dirty George Creek	Blake Ditch	20501.13605	6/18/2009	Season	Hawkins	Eagle	N/A		
Dry Creek	Welch Ditch	21089.12205	7/6/2009	11/1/2009	Eunice Ward	Currant Crk Ditch #1	21089.12205		
Dry Creek	Transfer Ditch	27528.00000	7/6/2009	11/1/2009	Mike Thomas	Gallant Ditch	Non-decreed		
Dry Creek	Gallant Ditch	21089.17503	7/27/2009	11/1/2009	Bud Burgess	Durkee Ditch	29260.19127		
Hubbard Creek	Deertrail Ditch	15858.00000	7/18/2009	11/1/2009	Bob Barnes	Overland Ditch	21263.15919		
Iron Creek	Fluke Ditch	12327.00000	7/7/2009	Irr. Season	Luther Pipher	Georgia Ditch	12493.00000		
Kiser Creek	Japan Ditch	20501.17114	7/1/2009	Season	Knutson	Big Ditch #23	20501.13372		
Kiser Creek	Roseberry Ditch	20501.13301	7/17/2009	Season	Fogg	Japan Ditch	20501.17114		
Kiser Creek	Kiser Ditch	13377.00000	7/17/2009	Season	Kasinger	Roseberry	20501.13301		
Kiser Creek	Lakefork Ditch	13356.00000	8/5/2009	Season	Sodowsky	Kiser #9	13377.00000		
Leroux Creek	Duke Ditch	50769.15584	7/8/2009	Irr. Season	Tom Rountree	Jessie Ditch	51499.12276		
Leroux Creek	Peterson Carr Barrow Ditch	12276.00000	8/13/2009	Irr. Season	Mark Smith	Midkiff Ditch	12724.00000		
Leroux Creek	Currant Creek Ditch	12269.00000	9/9/2009	Irr. Season	G. Heberstreit	Peterson Carr Barrow	12276.00000		
Minnesota	Minnisota Canal	14413.13758	7/6/2009	Season	Willie Kistler	Turner Ditch	21263.17451		
Muddy Creek	Filmore Ditch	29260.25001	7/18/2009	11/1/2009	Rob Gill	Elk Ditch	29260.28959		
Muddy Creek	Homestead Ditch	21427.00000	7/18/2009	11/1/2009	Joe Sperry	Gib Hutchens	42550.00000		
Muddy Creek	Drift Creek Ditch	24894.21014	7/18/2009	11/1/2009	Joe Sperry	Lost Cabin Ditch	24894.23922		

			DIVISION 4 20	l larger game		1	Admin # of the
		Admin # of					Most Senior
		Calling			Person Placing	Most Senior Curtailed	Curtailed
Stream Affected	Name of Calling Structure	Structure	Date of Call	Duration of Call	Call	Structure	Structure
Muddy Creek	Ditch No. 3	21263.17335	7/20/2009	11/1/2009	Joe Sperry	Ditch No. 2	21263.17335
Muddy Creek	Downing Ditch	29260.23998	7/22/2009	11/1/2009	Gary Volk	Bever Hide	29260.25445
N. Fork Gunnison	Crystal Springs Ranch	48759.00000	11/1/2008	11/1/2009	John Stroh	Chipeta Spring #1	54858.00000
N. Fork Gunnison	Fleming Ditch	24894.15425	7/27/2009	Irr. Season	Gerhart Stengel	Frank Allen Ditch	31924.23435
N. Fork Gunnison	Big Gulch Ditch	24894.15134	8/5/2009	Irr. Season	Al Twedell	Fleming Ditch	24894.15425
N. Fork Gunnison	Fire Mountain Canal	31924.31197	7/12/2009	9/16/2009	Tray Denison	Beckwith Ditch	35991.00000
N. Fork Gunnison	Paonia Ditch	14413.12114	7/26/2009	10/15/2009	Olen Lund	Stewart Ditch	19415.16770
N. Fork Gunnison	Short Ditch	14567.00000	7/30/2009	8/16/2009	Jim Carpenter	Stewart Ditch	19415.16770
Roatcap	Robert Stucker	21263.16833	6/1/2009	Season	Steve Walcott	Overland Ditch	25301.00000
Terror Creek	Terror Ditch	14413.12764	7/7/2009	11/1/2009	Richard Ruden	Overland Ditch	21263.00000
Smith Fork Creek	Grandview	21263.16523	6/29/2009	7 days	Mark LaVelley	Pilot Rock Ditch	21263.18353
Smith Fork Creek	Crawford Clipper	13076.00000	7/21/2009	Irr. Season	Gary Kraai	Daisy Ditch	13798.00000
Surface Creek	Alfalfa	11674.00000	7/20/2009	Season	R. Peterson	Orchard Ranch	12182.00000
Surface Creek	Orchard Ranch Ditch	12182.00000	7/17/2009	Season	Keith Waibel	Settle	12503.00000
Surface Creek	Settle	12503.00000	7/15/2009	Season	Bud Hawkins	Shepard	12717.00000
Surface Creek	Fogg	12876.00000	7/10/2009	Season	Roy Schroeder	Eric Johnson	13120.00000
Surface Creek	Eric Johnson	13120.00000	7/3/2009	Season	Jene Young	Bonita	13514.00000
Surface Creek	Omega	20501.13240	7/1/2009	Season	Joe Carlson	Paradise	20501.13331
Surface Creek	Trickle Ditch	20501.13574	6/29/2009	Season	Doug Wist	Coldwater Ditch	20501.16072
Surface Creek	Coldwater Ditch	20501.14750	39990	Season	Lou Bickmore	Gurney	
Surface Creek	Gurney	20501.15432	6/12/2009	Season	Arlo Hanson	Cedar Mesa	20501.16329
Surface Creek	Rose Ditch	20501.16527	6/7/2009	Season	Ron shaver	Lone Pine	20501.17790
Ward Creek	Big Ditch	13356.00000	7/4/2009	Season	Bob Morris	Undecreed Water	N/A
Ward Creek	Bryson Ditch	24894.18748	6/24/2009	Season	Wanda Gilmore	Undecreed Water	N/A
Ward Creek	Sandstone Bluff	13437.00000	7/27/2009	Season	Bob Osborn	Williams No.1 Ditch	N/A
Ward Creek	Carbon	20501.15066	7/9/2009	Season	Quinton Ladner	Todd	20501.15066
Youngs Creek	Broncho	13254.00000	7/27/2009	Season	Lewis	Santa Fe	13877.00000
Youngs Creek	Childs	13141.00000	9/25/2009	Season	Chann Fogg	Broncho	13254.00000
Youngs Creek	Childs Ditch	20501.14854	7/4/2009	Season	Chann Fogg	Cherokee	20501.16893

			Division 4 20	<u>09 River Calls</u>			
Stream Affected	Name of Calling Structure	Admin # of Calling Structure	Date of Call	Duration of Call	Person Placing Call	Most Senior Curtailed Structure	Admin # or the Most Senior Curtailed Structure
Youngs Creek	Lookout Ditch	20501.17636	6/29/2009	Season	Morris	G11-Childs Ditch	25807.14414
Youngs Creek	Cherokee Ditch	20501.16893	6/30/2009	Season	Reed	Lookout Ditch	20501.17636
Youngs Creek	Santa Fe Ditch	20501.14413	7/9/2009	Season	Betz	Childs #28	20501.14854
Youngs Creek	Santa Fe Ditch	13877.00000	7/9/2009	Season	Betz	Santa Fe #25	20501.14413
Water District 41							
Cedar Creek	Menke McCollum Ditch	29038.20300	5/18/2009	Irrig. Season	Helen Broomfield	Cedar Park Ditch	56247.53623
Horsefly Creek	Albush Ditch	24221.22524	4/8/2009	6/19/2009	Randy Sanders	Tierra Colorado Ditch	27184.21672
Water District 42							
Kannah Creek	Grand JCT FL & WW	30895.28975	11/1/2008	Winter Season	Dan Vanover	Juniata 1 st Enlgd	52950.00000
Kannah Creek	Grand JCT FL & WW	11687.00000	4/1/2009	Irrig. Season	Dan Vanover	Kannah Creek Ext. Ditch	12724.00000
Kannah Creek	Kannah Creek Ext. Ditch	12724.00000	4/24/2009	Irrig. Season	Ed Gardner	Smith Ditch	13007.00000
Water District 59							
Washington Gulch	Breem Ditch	18394.00000	7/18/2009	70 days	Bill Lacy	Willson Ditch	18759.00000
Washington Gulch	Willson Ditch	18759.00000	7/24/2009	64 days	Joe Knox	Rozich Ditch	18870.00000
Washington Gulch	Rozich Ditch	18870.00000	8/10/2009	46 days	Rudy Rozman	Meridian Ditch	26230.23010
Washington Gulch	Meridian Ditch	26230.23010	9/2/2009	23 days	Linda Colvey	None Curtailed	N/A
Coal Creek	McCormick Ditch	19509.00000	8/10/2009	46 days	Bill Lacy	Coal Creek Ditch	25245.00000
Coal Creek	McCormick Ditch	39252.19509	8/10/2009	46 days	Bill Lacy	Spann Nettick Ditch	None
Coal Creek	Coal Creek Ditch	35245.00000	8/26/2009	31 days	Wayne Meredith	Spann Nettick Ditch	38224.00000
Water District 60							
San Miguel River	Nucla Power Plant Ditch	16406.00000	8/6/2009	9/21/2009	Howard Kettle	Highline Canal	23681.21526
San Miguel River	Nucla Power Plant Ditch	13058.00000	8/6/2009	9/21/2009	Howard Kettle	Highline Canal	23681.31526
San Miguel River	Goulding Ditch	13453.00000	8/11/2009	9/21/2009	Don Bennett	Highline Canal	23681.31526
San Miguel River	BCD Ditch	13058.00000	8/11/2009	9/21/2009	Earl Reams	Highline Canal	23681.31526
San Miguel River	Highline Canal	28051.00000	8/17/2009	9/11/2009	Zene Weimer	Goulding Ditch	30604.28777

			D10131011 1 20	T		I	Admin # of the
		Admin # of Calling			Person Placing	Most Senior Curtailed	Most Senior Curtailed
Stream Affected	Name of Calling Structure	Structure	Date of Call	Duration of Call	Call	Structure	Structure
San Miguel River	Highline Canal	23681.21526	9/11/2009	9/21/2009	Zene Weimer	Parkway Ditch	25826.24289
Water District 61							
No Calls							
Water District 62							
No Calls							
Water District 63							
No Calls							
Water District 68							
Horsefly Creek	Albush Ditch	24221.22524	4/8/2009	6/19/2009	Randy Sanders	Tierra Colorado Ditch	27184.21672
Horsefly Creek	Tierra Colorado Ditch	27184.21672	4/22/2009	6/19/2009	Mina Voss	Williams D Nos. 1,2&3	29554.23861
Water District 73							
No Calls							

