



DIVISION 2 Annual Report 2009



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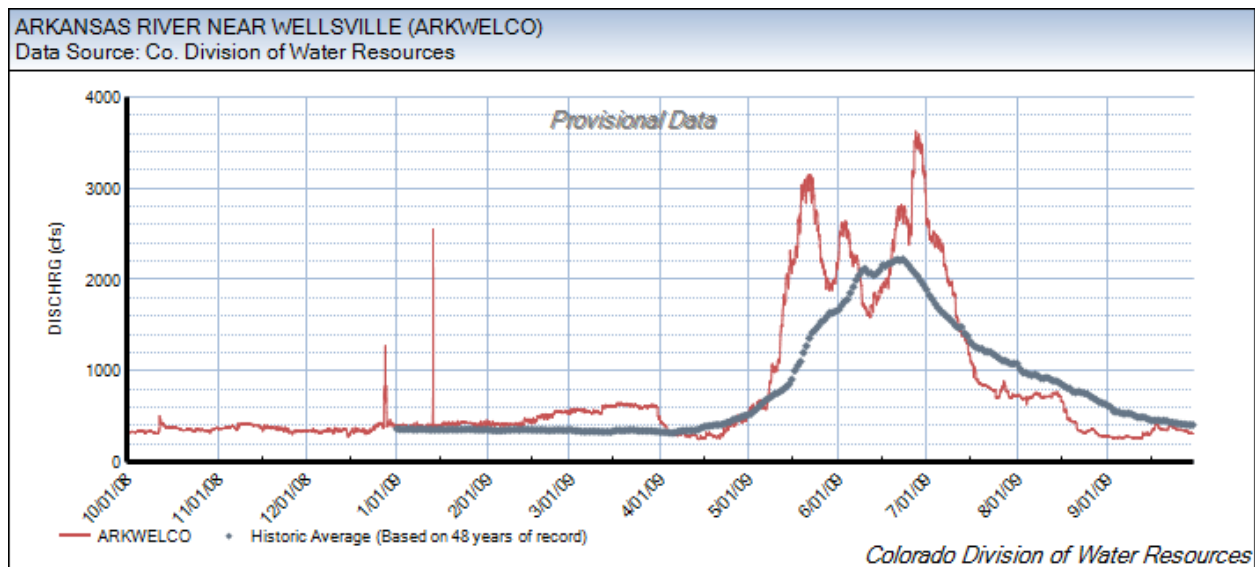
ACTIVITIES and ACCOMPLISHMENTS in WATER YEAR 2009

Surface Water Administration

Water Supply

Based on the reported snowpack which peaked at 114% of normal on April 19th, water users began 2009 with reasonable expectations of having an adequate water supply. The actual runoff occurred at times that bracketed the long term average peak and the peak flows were substantially higher than normal. (See attached hydrograph of flows at Wellsville)

Figure 1



As of the end of the Pueblo Winter Storage Program on March 14, 2009, a total of 140,356 acre-feet were diverted for direct use or stored in various reservoirs pursuant to the provisions of 84CW179. This is approximately 115% the most recent five year average and 98% of the historical average over the last 19 years that the program has been operated.

The amount of Compact water stored in John Martin Reservoir as of March 15, 2008 was 19,416 acre feet or 88% of the 1950-1975 average. At the end of the period of winter storage on April 23, 2009 a total of 32,757 af were transferred into storage accounts for Colorado and Kansas water users. No further Compact storage was warranted until November 1, 2009; however, the Amity Canal was allowed to store a total of 2,969 af in John Martin Reservoir at various times during the year under its transferred Great Plains Reservoir storage right. The State of Kansas initiated a run of all of the water available to them in John Martin Reservoir (29,777 af) during the period June 29 through July 23. A total of 20,229 af were released out of Colorado Section II accounts.

The initial allocation of Fry-Ark project water made in May 2009 was 29,506 af. A second allocation of 20,820 af was made in July 2009 for a total of 50,326 af to municipal and agricultural interests.

High capacity well pumping, which is primarily used for irrigation, was above average. Rule 14 Pumping Approved: 123,014 af or 93% of the 1996-2008 average and 107% of the 2003-2008 average. Total pumping for all wells in the three largest Arkansas River replacement plans (pursuant to the amended Arkansas River Use Rules) during calendar year 2009 was 95,455 af (100,434 af). Total pumping for Rule 3 wells (irrigation wells in the Arkansas River alluvium below Fountain Creek) during the same period was 75,616 af, which is 121% of the 2003-2008 average.

Submitted by Steve Witte

Administration of Plans for Augmentation and Substitute Water Supply Plans

The following table provides statistics on the status of efforts to prompt augmentation plan compliance through reporting of out of priority usage as of December 31, 2009. Replacement is being made for the majority of the decreed plans for augmentation and those few plans not replacing depletions are being dealt with.

Water District	Decreed Aug Plans	Decreed Number of Wells	Plans Reporting- Water Year 2009
10	239	3692	225.....94%
11	117	1958	50.....43%
12	32	1805	15.....47%
13	26	1071	8.....31%
14	5	4	3.....60%
15	7	9	7.....100%
16	13	13	10.....77%
17	12	96	3.....25%
18	1	2	1.....100%
19	4	763	1.....25%
67	9	162	5.....55%
79	1	1	1.....100%
Subtotal	466	9576	329.....71%
<i>11-12-13</i>	<i>UAWCD</i>	<i>1110*</i>	<i>Compiled by UAWCD</i>
Total	467	10686	

- A good number of decreed wells are not yet constructed, or have been constructed but are not yet used.
- Many augmentation plans replace evaporation losses from ponds and reservoirs. If recognized as such, the pond(s) are not included in the well count.
- UAWCD (Upper Arkansas Water Conservancy District) wells are generally not decreed but are augmented by way of membership in the decreed plan.
- “Plans Reporting” in most cases will be only partial reporting for a plan. In terms of individual reporters within a plan, the response is typically less than 50 percent for plans outside of Water District 10. Water District 10 individual reporters within a plan will be at or near 100%.

In an effort to improve on the number of plans or plan participants reporting, Division 2 sent 560 postcard reminder’s for a spring 2009 meter reading and 634 postcards in the fall. Overall response was 39.5 percent in the spring and 48.4 percent in the fall.

Submitted by Bill Richie

Enforcement Support Provided to Field Personnel

Monthly meetings to review the status of administrative orders and to discuss situations where such orders may be necessary were held throughout 2009 and have continued to provide the emphasis for successful disposition of numerous cases. However, the Plan of Administration (POA) initiative, which is intended to summarize and document the key elements of complex decreed plans for augmentation, assign responsibilities for execution of the various aspects of these plans and determine the appropriate coding needed to describe quantities of water diverted, corresponding out of priority stream depletions to be replaced and replacement operations has not been as successful. Never-the-less, this POA process is believed to hold promise for improved administration and will be resumed as soon as the press of completing other priorities has been completed and all key positions are staffed.

Submitted by Steve Witte

Trinidad 10-Year Review

The Trinidad 10-Year Review (WY 1995 – WY 2004) process was initiated by the Bureau of Reclamation with a meeting in Trinidad on October 5, 2005. A draft report was made available for review on March 24, 2009, and a review meeting was held in Trinidad on April 24, 2009. Written comments regarding the draft report were submitted by the Colorado Division of Water Resources, the Colorado Water Conservation Board, the U.S. Army Corps of Engineers, the Purgatoire River Water Conservancy District and the State of Kansas, on or about June 1, 2009. One suggestion for which there is consensus agreement is that data required for decennial reviews and possibly interim reviews need to be conducted periodically to make the 10-Year Review process less burdensome and more meaningful.

Submitted by Steve Witte

Ground Water Administration

Administration of Ground Water Use and Measurement Rules

Ground Water Rules Administration and Enforcement

Of the 6,594 Wells listed in the Ground Water Operations database, almost 4,400 are subject to the Amended Rules Governing the Measurement of Tributary Ground Water Diversions Located in the Arkansas River Basin. Approximately 4,300 Wells are subject to the Amended Rules and Regulations Governing the Diversion and Use of Tributary Ground Water in the Arkansas River Basin, Colorado. The number of Wells subject to both the Measurement and the Use Rules is slightly more than 4,000.

Measurement Rules

Metered Wells

Of the 4,300 Wells subject to the Measurement Rules, approximately 2,300 were shown in the Ground Water Operations records as having valid measurements methods and tests during some or all of 2009. There were 2,019 instances of compliance by well meters in 2009 and 263 circumstances of compliance by power coefficients in 2009.

Meter Accuracy Verification Tests

623 Measurement Tests were reviewed and entered by Ground Water Operations in 2009. 495 Tests were for Totalizing Flow Meters (80%) and 128 (20%) for Power Consumption Coefficients.

Measurement Test Quality Control Program

A total of 92 Quality Control tests were conducted in 2009 including 36 for PCC tests and 56 for TFM tests or 28% of the PCC tests and 11% of the total tests. The goals of the Measurement Test Quality Control Program are 15%-20% of the PCC tests and 10%-15% of the total tests.

Well Tester Recertification/Certification Certification of Water Well Meter Testers

There wasn't a new well testers class conducted in 2009. The next class scheduled for new well testers is in the spring of 2010.

108 previously certified Water Well Meter Testers recertified through mailings and online surveys on a statewide basis produced by the State Engineer's Office in Denver.

Use Rules

Rule 14 Plans Review and Approval

Eleven plans were submitted for 2008-2009 Plan Year and twelve plans were submitted for the 2009-2010 Plan Year. Huerfano County Water Conservancy District submitted a plan for the first time in 2009-2010 Plan Year cycle. The total wells in the 2009-10 Rule 14 Plans were 1,843. The original approved total pumping estimate for all plans in 2009-10 was 126,399 AF, a 3.5% increase over the original approvals for the previous Plan Year. The final approved total pumping estimate for the 2008 Plan Year is currently 152,099 AF, a 20% increase over the course of the Plan Year.

The past year presented a number of unusual challenges for our staff in their attempts to administer the Use Rules. A concerted effort was made to evaluate and respond to plan revisions in a timely manner to relieve the tension created for our field enforcement personnel when steps were taken to justify additional pumping and yet approval pended indefinitely. Special recognition is warranted for Kathy Trask's accomplishments for not only learning to perform this new procedure, but also for her efforts in turning around reviews and conditioned approvals more expeditiously than in the recent past. A word of thanks is also appropriate to the entire Ground Water Operations team for their commitment and professionalism during a trying period.

Administration - Monthly and Annual Reporting:

In 2009, Ground Water Operations received, reviewed and processed monthly usage reports for 1,497 meters on 1,416 Wells.

In addition to the monthly reports, another 86 Wells report monthly usage on an annual basis accounting for 3,400 AF of ground water diversions.

Enforcement Actions

Office Enforcement Actions: During the 2009 Plan Year, Written Enforcement Actions were processed for 404 Wells. 404 Wells received Written Orders with none resulting in Requests to the State Attorney General's to file a Complaint against the Owner for violations of State Statute, the Amended Measurement Rules and/or the Amended Use Rules Amended Measurement Rules. However, on February 12, 2009, the matter of Colorado v. Gardner Water and Sanitation District, (08CW65) was brought before the Water Court resulting in an order upholding the Division Engineer's previous orders to comply with the Colorado Ground Water Use and Measurement Rules. This action precipitated development of the Rule 14 Plan formulated under the auspices of the Huerfano County Water Conservancy District, referenced above.

Field Inspections and Enforcement Actions in 2009 included 3629 site visits to 2524 Wells; 1105 Wells visited more than once. 2386 meter readings were collected from 2149 meters. 10 Field Requests for Written Orders were submitted as a result of those site inspections. 1219 Wells were under Well Head Orders all or part of 2009. Well Head Orders were placed on 487 Wells and were removed from 32 Wells.

Submitted by Dan DiRezza, Dale Baker, Kathy Trask, Audrey Sartin, Steve Witte and Bill Tyner

Arkansas River Compact

Conclusion of Kansas vs. Colorado

The oral argument before the U.S. Supreme Court on Kansas' exception to the award of costs for expert witnesses was held on December 1, 2008. Attorney General Stephen Six argued for Kansas; Attorney General John Suthers argued for Colorado.

On March 9, 2009 the Court agreed with the \$40/day limit on the award of expert witness fees as costs, overruled Kansas' exception, and approved the entry of the proposed judgment and decree.

The Special Master filed a Motion for Discharge of Special Master on April 10, 2009. Kansas and Colorado both filed responses supporting the Motion. The United States Supreme Court entered an order on May 18, 2009, granting the Special Master's motion to be discharged with the thanks of the Court.

Although Kansas invoked the limited retained jurisdiction provided for in Section IV of the Judgment and Decree, Kansas and Colorado completed an agreement that resolved the dispute and extends the agreement not to terminate the Offset Account Resolution. This amended agreement replaced Appendix A.4 to the Decree and allowed the U.S Supreme Court to terminate the limited retained jurisdiction. This was communicated to the Court on August 4, 2009.

Members of the Kansas v. Colorado litigation team, including Attorney General John Suthers, David Robbins, Dennis Montgomery, Wendy Weiss, Carol Angel, Peter Ampe, Eve McDonald, Autumn Bernhardt, Kathy Havens, Hal Simpson, Steve Witte, Bill Tyner, Dale Straw, Duane

Helton, DeWayne Schroeder, Jim Slattery, Tom Ley and Tom Williamsen were honored by the Colorado Water Conservation Board for their service and counsel by means of a resolution and reception held on November 17, 2009.



Submitted by Steve Witte with acknowledgement to Dennis Montgomery

Arkansas River Compact Administration

The Operations Committee met on one occasion during the 2009 Compact Year. This meeting was held in conjunction with the December 8, 2008 meeting of the Compact Administration. The Operations Secretary and the Assistant Operations Secretary met on two occasions in an effort to maintain open lines of communication related to operations pertaining to the current Compact Year and in keeping with recommendations approved by the Operations Committee. These occurred on April 14, 2009 and on November 16, 2009.

Perhaps the most significant accomplishment of the Administration in 2009 was to revise the 1980 Operating Agreement to incorporate the various Resolutions approved by the Administration as the result of six recommendations made by the Special Engineering Committee since 2005. This revision was finally approved by the Administration on February 11, 2010 and approved by the U.S. Army Corps of Engineers as of March 23, 2010.

Recognizing Improvements to Irrigation Efficiency as a Potential Compact Issue

On May 12, 2008 State Engineer, Dick Wolfe issued an Order Establishing Advisory Committee for Arkansas River Compact Rules to Govern Improvements to Surface Water Irrigation Systems in the Arkansas River Basin.

The Advisory Committee met four times in 2009 which resulted in substantive changes to the draft Rules. Additionally, two subcommittees were formed. The Engineering Subcommittee continued its work in 2009 helping to refine the Irrigation System Analysis Model (ISAM) originally developed by Bill Tyner to evaluate the effect of improved irrigation efficiencies on return flow using a spreadsheet tool that requires very little input data and is relatively easy to use. A Solutions Subcommittee was selected and met on three occasions in 2009. The Solutions Subcommittee developed a set of written recommendations.

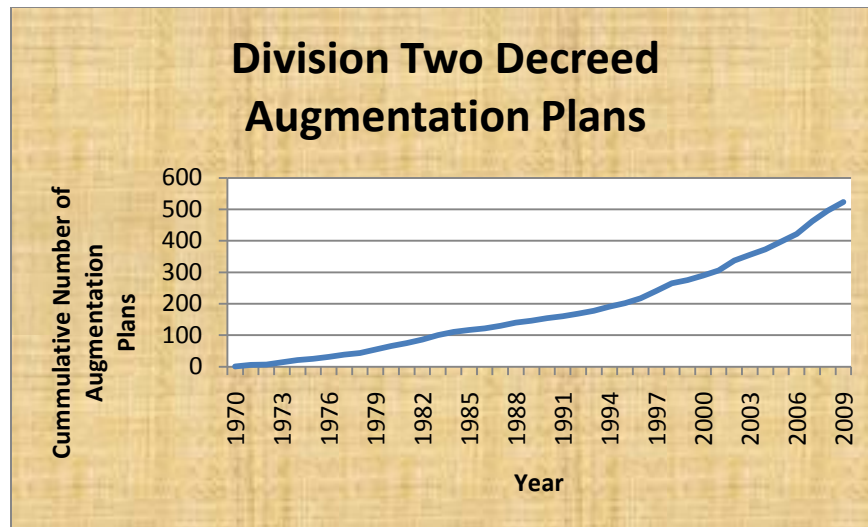
Finally, on September 30, 2009, the State Engineer filed the Compact Rules Governing Improvements to Surface Water Irrigation Systems in the Arkansas River Basin in Colorado (“Irrigation Improvement Rules”) with the Division 2 Water Court in case number 09CW110. Twenty one statements of opposition were filed and the case became at issue on January 15, 2010.

Submitted by Steve Witte

Legal and Litigation

Division Two Water Court Activity

One hundred and fifty new applications were filed in the Division Two Water Court during 2009. This was a 30% increase from the number of applications filed during 2008. One hundred and twenty seven decrees were also issued by the court during 2009. This was a 20% increase from the previous year. There was no apparent reason for these increases in court activity for the year as a whole. There was however a small rush in applications prior to July of applicants seeking to precede the court’s new rules taking effect on July 1st. A summary of the differing types of application and decree activity can be found in the Water Court Activity Table in the appendix of this report. Plans for augmentation continue to be a large portion of new application types. Below is a graph showing the history of augmentation plan growth in Division Two from 1970 through 2009.



The State and Division Engineers Offices filed statements of opposition in nine of the 150 new applications. This rate of formal opposition was down somewhat from 2008.

Written consultations are made to the court for all new applications and as warranted for amended applications. The Division Engineers Office attempts to participate in all referee hearings including the participation of water commissioners when needed. There were only two or three referee hearings during 2009. The Division Engineers Office maintains an active role the formulation of terms and conditions for rulings or decrees for many cases in which we are not a formal party. Draft rulings are often submitted to the office and responded to with any

appropriate comments or opinions. This process seems to have generally replaced the more formal referee hearing process in Division Two.

Expert Reports of the State and Division Engineers were filed in eight cases during 2009. These cases are listed below. All of our opposition eventually resulted in stipulations except for one trial being postponed. The City of Rocky Ford negotiations resulted in depositions being taken and settlement discussions continuing into scheduled trial days. The Division Engineers Office did not participate in any trials during 2009 in which this office was a party.

Case Number	Applicant-Water Rights	Resolution
04CW059	Horn Creek Conference Center-H.H. Thompkins Ditch	Stipulation
04CW060	Horn Creek Conference Center-Aug Plan	Stipulation
04CW125	City of Salida-Tennessee Ditch	Stipulation
06CW025	Thorsteinson-Mexican Ditch	Trial postponed until January 2011
06CW032	UAWCD-Blanket Aug Plan	Stipulation
06CW049	City of Rocky Ford-Catlin & Rocky Ford Ditches	Depositions & Stipulation
06CW119	City of Fountain & Security Water District-Chillcotte Ditch	Stipulation
08CW072	Hashimi-Eureka Ditch	Stipulation

Cases of Interest

City of Salida – Tennessee Ditch (04CW125)

The City of Salida filed an application in 2004 seeking to change over 90% of the two irrigation water rights decreed to the Tennessee Ditch located on the lower reaches of the South Arkansas River. These water rights are very senior and the city sought these rights to secure future water supplies. The application sought to change the rights from irrigation use to municipal use within the city’s existing plan for augmentation. Additionally, the city purchased the associated lands and plan for multi-purpose residential and commercial developments along Highway 50.

Significant in this case was that historic diversions under this ditch produced application rates of water many times in excess of crop irrigation demands. Certain opposers upstream on the South Arkansas River, historically subject to call by the Tennessee Ditch, sought to reduce any future continuing call requirement to only that of the historic irrigation demand. The Division Engineer argued that the historic level of diversions should continue to be called down the South Arkansas River and delivered to the Arkansas River, the site of historic return flows from the lands as these return flows were historically relied upon by main stem Arkansas River water rights. Eventually this later argument prevailed in the change decree. These upstream opposers will however benefit in the future with the increased ability to exchange upon these continuing call waters.

City of Rocky Ford (06CW049)

The City of Rocky Ford sought to change the use of certain shares owned by the city in the Rocky Ford Ditch and Catlin Canal Companies from irrigation use to municipal and augmentation purposes. Historically the city derived municipal water supplies directly from the Catlin Canal and later in the 1970's from local tributary wells. The wells were eventually favored as a clean and more physically dependable supply. A permanent augmentation source of water was sought for the wells continued use.

Significant in this case was equating the date of ditch share acquisition with increments of growth of the city over the last 100 years. There was limited correspondence between both the timing and the historic place of use of the specific shares acquired by the city as compared with the timing and location of the expansion of the city over time. The city also owned many more Catlin Canal shares than their historic municipal use required. After several months of negotiation, both of these factors greatly reduced the amount of future consumptive use that was legally attributed to these specific shares.

Submitted by Steve Kastner

Safety of Dams

This year was a transition year. In November 2008 Mike Graber retired from the Dam Safety program after over 30 years of state service and 19 years as the Division 2 Dam Safety Engineer. His position remained vacant for nearly a year due to the State hiring freeze in FY08-09. In July 2009 the hiring freeze was lifted and the process began immediately to fill this critical position. The Dam Safety Branch decided to advertise the position Open and Competitive in order to attract a large pool of well qualified candidates. After the applications, testing and interviews, Mark Perry, former Division 2 Lead Hydrographer, was selected to fill the position. Mark started as Dam Safety Engineer on September 1, 2009. In the interim Bill McCormick was working double-duty to cover his own area and Mike's area. Bill performed inspections, coordinated Emergency Action Plans, did design reviews, etc. for both areas in order to assure that critical functions were not delayed due to the vacancy. With both positions filled, Mark and Bill now divide the work load geographically with Bill having dam safety responsibilities for the northern portion of Division 2 and also the southern portions of Division 1 while Mark has responsibilities for the southern portion of Division 2 and Water Districts 24, 25, and 35 in Division 3. The prime objectives for 2009 were to complete all dam safety inspections according to the required schedule and determine the safe storage level for each dam evaluated, perform timely design reviews of designs, plans and specifications for dam repairs and rehabilitation, and to assist owners with the safe operation and maintenance of dams and reservoirs. The standard dam inspection schedule is every year for High Hazard dams, every other year for Significant Hazard Dams, and every 6 years for Low Hazard Dams. The Dam Safety Branch also utilizes a Risk Based Point System, whereby the inspection schedule may be modified from the standard scheduled based on the condition and safety features of a dam (Note: The standard inspection schedule is based solely on Hazard Classification, where hazard is based on the consequences of failure *not* the probability or risk of failure).

Dam Inspections:

Bill and Mark together have over 300 jurisdictional-sized dams that have to be inspected, modifications need to be reviewed and approved, and construction needs to be inspected by state statute. Statute defines jurisdictional-sized dams as those with a jurisdictional height over 10-ft, a reservoir surface area over 20 acres or water storage at the normal high water line over 100 acre-feet. In addition the Dam Safety Engineers review permit applications for non-jurisdictional sized dams, livestock water tanks, and erosion control dams. Table 1 lists jurisdictional-sized dams by hazard class in Division 2 (as noted above Bill and Mark also are responsible for parts of other divisions that are not included in Table 1).

In 2009, a total of 42 jurisdictional-sized dams in Division 2 received periodic safety inspections by the Dam Safety Branch. This number was lower than previous years due to the position vacancy for eight months of the calendar year. Also Bill and Mark have duties in other divisions. They performed a total of 63 inspections in 2009, counting inspections in Divisions 1 and 3.

Table 1: Division 2 Jurisdictional Dams⁽¹⁾

Hazard Classification ⁽²⁾	Number
High Hazard	49
Significant Hazard	53
Low Hazard	111
No Public Hazard	105
TOTAL	318
Dams under storage restriction	8

(1) Does not include exempt, breached, abandoned or non-jurisdictional sized dams.

(2) "**High Hazard Dam**" is a dam for which loss of human life is expected to result from failure of the dam. "**Significant Hazard Dam**" is a dam for which significant damage is expected to occur, but no loss of human life is expected from failure of the dam. Significant damage is defined as damage to structures where people generally live, work, or recreate, or public or private facilities. Significant damage is determined to be damage sufficient to render structures or facilities uninhabitable or inoperable. "**Low Hazard Dam**" is a dam for which loss of human life is not expected, and significant damage to structures and public facilities as defined for a "Significant Hazard" dam is not expected to result from failure of the dam. "**No Public Hazard (NPH) Dam**" is a dam for which no loss of human life is expected, and which damage only to the dam owner's property will result from failure of the dam.

Dam Modifications and Construction:

A number of dam modifications and construction projects were performed and overseen by the Division 2 Dam Safety Engineers.

Smith Dam: Smith Dam is located in Division 3 but the area is under Mark Perry. Smith Dam storage was restricted by the State Engineer's Office in April 2009, when the upstream face was severely damaged by wave action. Trinchera Irrigation Company hired Davis Engineering and quickly went to work designing repairs to the dam. The final project consisted of rebuilding the upstream slope of the dam and adding a significant amount of mass to the dam. The upstream slope was lowered from a 1.5H:1V slope to a 3H:1V slope. Consequently the outlet conduit had to be extended upstream. A new gate, gate stem, and operator were installed at the same time,

and the old downstream valve was removed from operation. Trinchera Irrigation District obtained a CWCB low-interest loan to finance the project.



Smith Dam outlet extension and upstream slope rehabilitation.



Smith Dam after upstream slope and outlet repairs were completed.

Martin Lake Dam: The Martin Lake Dam Outlet Rehabilitation project design was reviewed and approved by the State Engineer's Office in late 2009. Construction started in early 2010 and is near completion at this time. The project consisted of breaching the dam and removing the old outlet structure, gate and conduit. The cut was dewatered and a new cast iron, concrete encased outlet was installed. The breach was backfilled with compacted soil. The project was

complicated by the fact that the reservoir remained partially full during construction in order to preserve Martin Lake's fishery, which the Colorado Division of Wildlife has spent many years establishing.



Outlet replacement work at Martin Lake Dam.



Martin Lake Dam – completing the upstream toe near the new outlet headwall.

Dam Safety Branch Guidance:

Bill McCormick played a key role in developing new guidelines for the Dam Safety Branch. These guidelines will be used internally by the dam safety engineers to ensure consistent and

high quality standards are used when reviewing submittals, and by dam owners and consulting engineers when preparing submissions to the SEO.

Guidelines for Breach Analysis: This 68 page document is a cutting edge report that reviews existing procedures for performing breach analyses and provides guidance on acceptable methods for performing breach analyses for acceptance by the SEO. Various methods are described depending on the level of effort and conservatism desired by the owner or consultant, ranging from empirical models (based on data from actual dam failures) like McDonald and Langridge-Monopolis, to HEC-RAS unsteady breach computer modeling. Generally the less effort involved, the more conservative the result. The final document is now available on the Dam Safety Branch of the DWR website (<http://water.state.co.us/damsafety/dams.asp>).

Preparation Guidelines for an Emergency Action Plan: Bill was instrumental in developing this 37 page document which provides EAP preparation guidance to Colorado dam owners based on the nationally recognized NRCS 5-step EAP model. The five steps are: (1) Detection of an unusual or emergency situation, (2) Determination of the Appropriate Emergency Level, (3) Notification and Communication with First Responders, (4) Expected Actions, and (5) Termination of the Event. The guidelines discuss preparation of all components of an EAP and discuss how to perform training exercises to practice emergency response. This document is also available on the DWR website.

Example Emergency Action Plan (EAP): Again, Bill was instrumental in preparing this fillable Microsoft Word Example EAP form. The form can be downloaded from the DWR website by dam owners and consultants and can be used as a template for developing a new or updated EAP in accordance with SEO standards. Numerous dam owners have already used the form to update their plans and feedback has been very positive.

Training and Meetings:

The Fall 2009 Dam Safety Branch meeting was held in Dillon, Colorado, in November. As usual there were lively discussion of Dam Safety Branch policies, practices and guidance. Case studies and experiences from throughout the year were shared by numerous dam safety engineers. A product representative from Insituform gave a presentation on the use of their cured in-place plastic pipe liners for rehabilitating aging outlet conduits.

During the Fall 2009 Dam Safety Branch meeting the branch was able to participate in a full scale functional exercise of the Emergency Action Plan for Dillon Dam. Bill McCormick, along with several other dam safety engineers, was asked to be an evaluator of the exercise. Participants included emergency responders from local hospitals and police, Denver Water staff, CDOT staff and the DWR Dam Safety Branch along with others. It was a valuable educational experience.

Bill McCormick attended the Association of State Dam Safety Official's (ASDSO) Dam Instrumentation and Monitoring class. The class presented the latest technology on automated monitoring and data acquisition for dam safety.

Dam Safety Incidents:

Park Center #5 dam: On April 22, 2009, an uncontrolled seepage incident occurred at the Park Center #5 dam located off-channel in the Four Mile Creek drainage area, on the north side of Canon City. The dam is owned by the Park Center Water District. During that day the owner observed a new seep at the downstream toe. Seepage was visually estimated to be 100-200 gpm and was cloudy. The owner also observed intermittent slugs of muddy water discharges. Circular cracking consistent with a slope failure was observed on the downstream slope above the seep. All evidence indicated that that voids had eroded in the dam and a piping or internal erosion failure was in progress. The owner contacted Bill McCormick at about 5pm on April 22nd. Bill went to the site and worked with the owner and the owner's contractor to construct a weighted filter on the seep, consisting of geotextile covered with dirty pea gravel. The purpose of the weighted filter was to buttress the slope and to block the movement of fines from the dam while still allow the seepage to drain. At the same time the reservoir level was lowered at 1500 gpm using pumps. The situation was controlled and a breach did not occur. After the incident was controlled the owner hired CTL Thompson of Colorado Springs to investigate the dam more thoroughly and design repairs for the dam. The repairs work was performed in September 2009.



Repairs to the Park Center #5 dam after a seepage pipe developed in the dam. The embankment was breached in the area where seepage developed. Cracks were excavated and the dam was reconstructed with a filter drain in that breach.



Installation of a two stage filter at the downstream toe of Park Center #5 dam.

Submitted by Mark Perry

Hydrography

Assistant Division Engineer, Bill Tyner, PE III , provided the overall program leadership for the Division 2 Hydrographic Program during the 2009 water year. Hydrographic support was provided by Lead Hydrographer, Charles DiDomenico, PE I, and Hydrographers, Cheston Hart, EIT I, Anthony Gutierrez, PS/ET II and Adam Adame, PS/ET II. Charles DiDomenico joined the Division 2 team in December 2009 when former Lead Hydrographer, Mark Perry, transitioned out of the hydrographic program. Tom Ley, Chief Hydrographer for the State, maintains his office in Division 2 and supports the hydrographic program in numerous ways.

Division 2 hydrographers continued their assigned workload with specific gaging stations and geographic regions. Routine work included regular streamflow measurements, gaging station operation and maintenance, satellite monitoring equipment operation and maintenance and the complete development and computation of streamflow records for specific gaging stations. Cheston Hart was responsible for gaging stations in water district 11 (WD 11). Tony Gutierrez was primarily responsible for gages in WD's 10, 12, 14, 15, 16, 79, 18 and 19. Adam Adame was responsible for WD's 17 and 67 while Tom Ley assisted in WD 13. In addition to their routine workload, hydrographers respond to Division 2 administrative management requests for water measurements from Water Commissioners, surface water coordinators and compact administrators.

GAGING STATIONS:

Satellite Monitoring System:

Division 2 operated and maintained 104 stream, diversion and reservoir gages on the Satellite Monitoring System (SMS). This does NOT include the 85 cooperator gages that require periodic involvement from the Division 2 Hydrographic staff. The breakdown of Division 2 operated gages is as follows:

Record Stream Gages:	34
Record Diversion Gages:	13
Administrative Stream Gages:	11
Administrative Diversion Gages:	39
<u>Reservoir Gages:</u>	<u>7</u>
TOTAL	104 gages operated solely by Division 2

Division 2 gages require hydrographic measurements on a sustained and frequent basis, monitoring equipment diagnostics via WebHMS, stage-discharge rating development, routine maintenance, and periodic gage improvements. Routine maintenance includes, but is not limited to, pumping wells; purging bubbler lines; breaking ice; replacing floats; changing charts; changing float tapes; replacing mufflers; replacing malfunctioning DCPs, shaft encoders, antennas, GPS antennas, and batteries; downloading DCP log data and maintaining gage logs. Periodic gage improvements can include any construction or maintenance items required to preserve the integrity of a gage and data. Specific gage improvement projects performed in WY09 are discussed in more detail below.

In addition, 85 cooperator gages on the SMS network in Division 2 require a relevant time commitment from the Division 2 Hydrographic staff. Hydrographers are often the liaison between water commissioners and gage cooperators when cooperator gages that are needed for water administration are not working. Division 2 hydrographers often make supplemental hydrographic measurements at USGS gage sites such as the Arkansas River at Las Animas and the Purgatoire River at Las Animas, in order to satisfy Arkansas River Compact Administration requirements.

Support of Water Administration:

Division 2 provides a wide variety of hydrographic support to assist in water administration efforts. In WY09, hydrographers performed water administrative support work at the following non-record gages:

- Check measurements and flume inspections at Spring Creek Augmentation Station in WD 10.
- Provided review and comment to consulting engineers designing structures at the Owen-Hall Ditch and Amity Wiley Drain.
- Assisted Rocky Mountain Steel Mill with the installation of additional data collection equipment at the Salt Creek gage by providing the preparatory work for equipment connection.
- Assisted the Pueblo Board of Water Works with SMS equipment selection and installation guidelines for monitoring at Lake Minnequa.
- Provided support to the Reservoir Operations Coordinator during winter water by measuring the Fort Lyon Storage Canal and Holbrook Canal during Winter Water

Operations.

- Bring into operation the South Arkansas below the Tennesse Ditch gage by development and implementation of a compound weir theoretical rating curve.
- Managed the contract for the construction of a rock weir at the Huerfano River at Manzanares gage.
- Secured the access easements for the construction of a new gage station on the Purgatoire River at Fishers Crossing.
- Finalized the contract documents and drawings for the construction of the new gage on the Purgatoire River at Fishers Crossing.
- Continued the operation of the Pueblo Reservoir gage from the USBR by troubleshooting SMS equipment problems related to the reservoir and the Bessemer Ditch.
- Worked with numerous ditch companies to coordinate needed maintenance at gages (for example, excavating stilling basins upstream of flumes, cleaning intakes and stilling wells, and relocating staff gages to the correct position).
- On behalf of the WD 17 Water Commissioner, work with Colorado State Land Board at Smith Ranch reservoirs to purchase isopar for improved winter operations.
- In cooperation with the Upper Arkansas Water Conservancy District, assisted Colorado State University researches with measurements in the Upper Arkansas River segment.

HYDROGRAPHIC RECORDS:

Published Records:

Division 2 hydrographic staff will complete 47 streamflow and diversion records in WY09 for publication in the DWR Annual Streamflow Report. In addition, Division 2 provided the ARKCANCO record to the USGS for publication. We also provided timely transmountain diversion records to Divisions 4 and 5, the Upper Colorado River Commission, and the USGS for their reporting. Ditch and canal diversion records were also provided to appropriate Division 2 water commissioners in order to ensure record consistency.

Division 2 has experienced schedule setbacks to record publication this year with the transition of a new Lead Hydrographer into the program during the record development months.

Streamflow Measurements:

During WY09, Division 2 hydrographers made a total of 515 discharge measurements at both record and administrative gages.

In addition to discharge measurements, Hydrographic staff made many visits to reservoir gages and Coagmet weather stations. We operate 7 reservoir gages at Pueblo, Adobe, Bret Gray, Clear Creek, Cucharas, Douglas, and Skaquay reservoirs. In addition we support cooperator reservoir gages at Lake Henry and Lake Meredith.

STREAM GAGE IMPROVEMENTS:

During WY09, Division 2 hydrographers completed the following stream gage improvement projects:

New Gages:

The stream gage on the South Arkansas River below Tennesse Ditch (SOAKTECO) was finalized and published onto our network of stream and reservoir web based monitoring sites. This low flow administrative gage consisted of a sheet pile combination weir control structure and a constant flow bubbler water depth sensor with satellite transmission.



During Construction



After Construction

As a carryover project from the previous water year, the Purgatoire River at Fishers Crossing (PURFISCO) is now under construction. This low flow administrative gage will consist of a rock riffle control and a constant flow bubbler water depth sensor with satellite transmission.



Gage Pool



Overview of Site

Stream Gage Refurbishment: The stream gage on the Huerfano River at Manzanares near Redwing was refurbished with a rock control weir structure to improve channel stabilization and record quality.



Before



After Construction

The stream gage on the Cucharas River at Boyd Ranch near La Veta was refurbished with a gage shelter and rock control weir structure to improve channel stabilization and record quality.



New Gage Shelter



Rock Weir Control Structure

The SMS equipment at Huerfano River at Badito was upgraded.

Adobe Reservoir constant flow bubbler line was replaced.

Arkansas River at Granite cableway was inspected and improved.

High Data Rate DCP Upgrades:

All DCP upgrades are complete

Specialized Training:

Hydrographer Cheston Hart received USGS training on the use of Stream-Pro Acoustic Doppler Current Profiler (ADCP) stream discharge measurement equipment. The ADCP technology is being evaluated in a variety of stream flow conditions.

Submitted by Charles DiDomenico

Information Technology

In last year's report, a number of concerns were raised relative to implementation of a statewide plan to consolidate "IT" services which became effective as of July 1, 2008. The point was made that in such a sweeping reorganization, it is inevitable that there are winners and losers. One of the consequences for the Division of water Resources was the decision made by Vivian Beal to retire at the end of February 2009.

In the new service delivery model, one desktop support position was determined to be sufficient for both the Division 2 and Division 3 offices. Dustinn Valdez, who formerly worked in the Alamosa office, relocated to Pueblo and commutes to Alamosa one day per week. So far, this position has not been called upon to provide service to any other agency within the Department of Natural Resources.

The initiative to redesign the Ground Water Data Management System that was taken over by the DWR IT Development Team in June of 2006 was dealt a serious setback when lead developer Scott Neale resigned in May of 2009. In the intervening years, this project evolved from an attempt to update the Access based legacy system originally developed by Division 2, to address the needs of developing ground water programs in other Divisions. Appropriately, a

team approach was launched in an attempt to prioritize and guide development efforts, this led to a consensus that development of a water accounting module should be a top priority, however, very little evidence of progressive development activity throughout the second half of 2009 has been apparent. Enterprise applications development has not been improved by the OIT consolidation.

Submitted by Steve Witte

Organization/Personnel/Workload Issues

Personnel

Division 2 experienced another year of several staffing changes. Vivian Beal retired in February 2009 and Chris Lytle retired in December 2009. Resignations were received by Kim Pulis (March 2009) and Kalsoum Abbasi (April 2009) as both decided to pursue other opportunities. Temporary employees hired during the year included Peter Jacobs as Deputy Water Commissioner in Water District 19, Gary Hanks as Deputy Water Commissioner in Water District 11 and Karen Shaw as receptionist in the Pueblo office (starting mid-November 2009). Mark Perry was the Lead Hydrographer in Division 2 until he accepted the Dam Safety position previously held by Mike Graber. This change became effective September 1, 2009. New employees hired during the year include Rob Phillips in the Reservoir Operation position. Rob transferred to Division 2 from Division 3 in March 2009. Dustinn Valdez also transferred from Division 3 filling the IT Professional position previously held by Vivian Beal. Justin Zeisler accepted the Augmentation Coordinator position in November 2009 (previously held by Kalsoum Abbasi) and Charlie DiDomenico was appointed to the Lead Hydrographer position November 30, 2009. Brian Sutton's position was reallocated from Engineering Physical Science Technician II (EPST) to EPST III effective August 1, 2009 as completion of his training plan established when he was appointed Lead Water Commissioner in Water District 10. See Organization Chart on page 37.

Submitted by Wendy Bogard

Budget

The division operating budget was sufficient in 2009 even though the State budget was reported to be short. What was impacted by the State's shortfall was the overtime budget. Other cuts (made effective in January also) were division training budgets and Official Function meetings (any meetings with incurred expenses). Charges imposed by Fleet were increased and price for reimbursement of Private Owned Vehicles was reduced by 3 cents per mile effective January 1, 2009. Mandated Furloughs were announced by the Governor's Office in July 2009. Four were implemented during the remainder of the calendar year (one per month from September through December). Division 2 operating funds were reduced due to "cost savings" from Verizon cellular calling plans being consolidated statewide. In August 2009 (Fiscal Year 2010) the division's budget was again reduced to help with statewide shortfalls. Time will tell if this cut will be severe enough to impact the last half of FY10 spending needs.

The overtime budget allocation remained the same as previous years but overtime use was restricted in January 2009. Overtime use was allowed later into the fiscal year. Then, again in August 2009 the DWR overtime budget was restricted but later reinstated with the caution to use it "judiciously". The personal services budget at the DWR level is now projecting an excess of

funds due to vacancies and that money allowed our managers the opportunity to keep permanent part-time employees working a little longer in the fall and winter of 2009.

Submitted by Wendy Bogard

Office Space

The leases for the Pueblo office and La Junta office were valid through June 2009. We began working with a realtor in January 2009 to explore renewing leases in existing locations and looking at possible sites for relocation. The La Junta lease was renewed with Colorado Bank and Trust and through the new lease we were able to expand square footage to better meet our needs in that office. The Pueblo lease was not renewed due mainly to concerns on heating and air conditioning throughout the office. We began a month to month rental agreement and negotiations are continuing at the writing of this report.

Submitted by Wendy Bogard

State Vehicles

Four vehicles were approved to be replaced in 2009. As of the writing of this report three new Fleet vehicles were received by Brian Sutton, Adam Adame and Cheston Hart. Delivery of the fourth vehicle was affected by production difficulties within the auto industry, which resulted in delayed delivery of one truck. A severe hail storm in Pueblo resulted in extensive hail damage to five Fleet vehicles. All have been repaired.

Submitted by Wendy Bogard

Training

Division training budgets were consolidated into one budget at the state level and requests and approvals are made in Denver. Approvals for training were restricted as a “cost saving” measure. In August Department of Personnel and Administration began requiring waivers for any training that State employees wanted that was not offered by the State’s Professional Development Center. Three separate discussion groups were convened during the year for the purpose of studying a book entitled “Crucial Conversations”. Rob Phillips participated in the annual Pueblo Board of Water Works tour in July 2009. No other training was recorded for the year.

Submitted by Wendy Bogard

Pay for Performance

Pay for Performance was not funded in 2009 nor were cost of living expense increases (salary survey). Both were restricted due to the State’s budget shortfall and employees can expect to receive no payroll increases for another year or two.

Submitted by Wendy Bogard

Agency Meetings

The staff of Division 2 are involved in a variety of agency meetings. These include the Dam Safety Engineers’ annual meeting, the Hydrographers’ annual meeting. The SEO annual meetings and the annual Program Assistant meeting were not held during the year due to budget constraints. Steve Witte attended Leadership Team meetings either in person or by

teleconference. Division 2 did not have a Spring Meeting but had a Fall Meeting October 28, 2009. There were three other staff meetings during the year and four Senior Staff meetings. The Groundwater group and the Orders Committee met routinely through the year.

Submitted by Wendy Bogard

Employee Recognition

Water Commissioner of the Year was awarded to Brian Sutton, Water District 10. He was recognized on at the October 2009 Fall Staff meeting. Wendy Bogard received the Support Staff of the Year award and Bill McCormick received the Professional Staff award.

Submitted by Wendy Bogard



Involvement in the Water Community

Division 2 staff attended numerous meetings throughout the year. Four water conservancy districts within the Arkansas River basin each hold meetings and Division 2 staff attended when possible. Ditch companies, groundwater associations, various water users associations, and special interest groups conduct meetings and many times Division 2 has representation at those meetings, including homeowner associations. Kathy Trask and Jeanette Bryan participated in the annual CSU-Pueblo DWIP program in May 2009.

Submitted by Wendy Bogard

Chief Justice Mary Mullarkey issued an order on December 4, 2007 establishing a Water Court Committee of the Colorado Supreme Court to review the water court process and identify possible ways through statutory and/or rule changes to achieve efficiencies in water court cases, while still protecting the quality of outcomes and ensure the highest level of competence in water case participants. Subsequently on August 8, 2008, Chief Justice Mullarkey issued an order creating a Standing Water Court Committee which appointed Steve Witte as a member for an additional two year period.

Water court rule amendments adopted by the Colorado Supreme Court on February 19, 2009 and revised water court forms were made available for use by the public by early June and a “Non-Attorney’s Guidebook to Colorado Water Courts” was completed by the end of that month.

Submitted by Steve Witte

Innovative Administration Processes

Because innovation encompasses both the concept of unusualness as well as newness, I’ve decided to chronicle efforts to enforce seepage rights in Water District 67 here...not because the concept of administering water rights is something new, but rather because previous attempts have not been a common practice.

Development of large irrigation systems were initiated in the lower Arkansas Valley of Colorado in the 1880s. The course of these canals generally paralleled the Arkansas River but intersected tributary drainages that probably contained flowing water only infrequently. However the

introduction of water to the upland areas beneath these irrigation canals caused water to seep or run into and flow in these drainages (a.k.a., valleys, draws, drains and arroyos) more frequently, which caused adjacent landowners to recognize these as potential sources of water that could be appropriated and placed to beneficial use. As a result new diversion structures were built and the owners of these ditches as well as lower lying canals that intercepted these drainages at lower elevations all filed for and obtained court adjudications of water rights. Some of these “seep” water rights hold appropriation dates as early as the 1890s, many were established within the first two decades of the twentieth century and a few continued to be developed as late as 1950.

For whatever reason, the relative priority of these water rights to the more senior rights of downstream appropriators was largely ignored for many years. As a result, the geography of the area was artificially transformed. Ditches were relocated from decreed points of diversion to consolidate with other ditches at the convenience of new landowners. Measurement and control devices were abandoned, except to the extent necessary for farmers to regulate the flow of water for their own agricultural purposes. In some cases, the natural drainage paths were filled in and leveled converting them to additional cultivated acreage. Intercepting canals neglected maintenance of siphons and bypass structures thus making it impossible to require the flow of drainages to be delivered to the river at the same location that existed when previous appropriators made their initial diversions. The resulting injury to senior appropriators was gradual and therefore almost imperceptible to many.

With the changes of administration to Colorado water rights brought about by litigation related to the Arkansas River Compact and closer examination of administrative practices in Water District 67 occasioned by large change of water right cases tried in Colorado Water Courts, the Division Engineer made a decision that as a matter of consistency with the requirements of law and equity to other water users significant changes were needed.

Initially, agreements were secured with the two largest canals with appropriations pertaining to intercepted drainage flows to install measurement and/or bypass structures to permit these (as well as other upstream or up “drainage”) water rights to be administered in priority. These agreements included a schedule for these installations in lieu of orders.

Additionally, a meeting of individuals having interests in seep rights in the area east of John Martin Reservoir was held in the board-room of the Community State Bank in Lamar, CO on March 31st, 2009. The purpose of the meeting was to discuss how these rights relate to other water rights, recent changes that may affect these rights, how these rights are to be appropriately administered in the future and other related issues that the participants wanted to discuss. At this meeting Division Engineer Witte stated that seep ditch owners would be allowed until April 1, 2010 to install control and measurement devices and initiate efforts to change their water rights as needed to cause them to conform with to their current points of diversion.

On April 15, 2009, Division Engineer Witte and State Engineer, Dick Wolfe also conducted a meeting with water users at the invitation of the Lower Arkansas Water Conservancy District, in the Cow Palace in Lamar. The original purpose of this meeting was to provide general explanation of the principles that affect water administration in Water District 67, including the priority system, the Arkansas River Compact, and the proposed Irrigation Improvement Rules, however, interest in the prospects for administration of seep rights provided an opportunity to repeat much of the same information provided at the earlier meeting on March 31st.

Throughout the summer, water commissioners inventoried off-channel diversion structures and met with owners to explain the Division's expectations regarding the need to install or maintain measurement and control structures and to notify water right owners of discrepancies between the current points of diversion and those described in their corresponding court decrees. Another purpose of these contacts was to encourage voluntary compliance with their verbal requests.

On December 21, 2009 approximately 24 orders were issued in relation to 54 structures. Most of these required installation of measurement and/or control devices by April 1, 2010.

Submitted by Steve Witte

Objectives for 2010

The following is an incomplete and un-prioritized list of objectives to be accomplished in the coming year that are in addition to our core mission of providing for the proper administration of the waters of the Arkansas River and its tributaries in accordance with the doctrine of prior appropriation and Colorado's Compact obligations under the Arkansas River Compact as well as by providing for public safety through the Dam Safety program:

1. Adapt and improvise to respond to reductions of General Fund allocations in FY 09-10 caused by the current recession.
2. Attempt to improve morale and retain productive employees despite continuing furloughs.
3. Improvise and adapt programs and organizational structure to capitalize on abilities and experience of personnel in order to unify our efforts to deliver exceptional water administration service to the public.
4. Evaluate the current and foreseeable office space needs of the Division 2 offices in Pueblo and secure lease renewals to meet those needs in the most cost effective manner possible in consideration of the market and available funds.
5. Implement the provisions of the final Decree entered in the matter of *Kansas v. Colorado*, including the agreements included within the appendices to the decree.
6. Successfully defend the proposed Irrigation Improvement Rules and prepare for their implementation.
7. Incorporate coal bed methane wells into ground water administrative activities pursuant to the ruling in the case of *Vance v. Wolfe* (07SA293).
8. Advance efforts to require appropriate measurement and control devices and properly administer water rights from tributaries, especially below John Martin Reservoir.
9. Participate in an assessment of user needs for the purpose of developing a decision support system for the Arkansas river, work with IT development personnel to continue efforts that have been made to produce a statewide Ground Water Data Management System that is compatible with the existing Hydrobase database and continue to utilize and develop GIS applications to improve water rights administration capabilities.
10. Consider opportunities to recruit and train personnel with an eye to succession planning and renewal to more effectively meet future needs.

Transmountain Diversion Summary

WY 2009 TRANSMOUNTAIN DIVERSION SUMMARY - INFLOWS

RECIPIENT					SOURCE	
DIV/WD	DIVERSION STRUCTURE	STREAM	ACRE-FEET	DAYS	DIV/WD	STREAM
2/11	COLUMBINE DITCH	ARKANSAS RIVER	78	61	5/37	EAGLE RIVER
2/11	EWING DITCH	TENNESSEE CREEK	1,200	124	5/37	EAGLE RIVER
2/11	WURTZ DITCH	TENNESSEE CREEK	2,920	79	5/37	EAGLE RIVER
2/11	HOMESTAKE TUNNEL	LAKE FORK CREEK	50,510	118	5/37	EAGLE RIVER
2/11	BOUSTEAD TUNNEL	LAKE FORK CREEK	83,840	365	5/38	FRYINGPAN RIVER
2/11	BUSK-IVANHOE TUNNEL	LAKE FORK CREEK	3,320	352	5/38	FRYINGPAN RIVER
2/11	TWIN LAKES TUNNEL	LAKE CREEK	58,740	365	5/38	ROARING FORK RIVER
2/11	LARKSPUR DITCH	PONCHA CREEK	328	143	4/28	TOMICHI CREEK
2/79	HUDSON DITCH	HUERFANO RIVER	453	75	3/35	MEDANO CREEK
2/79	MEDANO DITCH	HUERFANO RIVER	1,125	75	3/35	MEDANO CREEK
2/10	BLUE RIVER PIPELINE	FOUNTAIN CREEK	13,829	345	5/36	BLUE RIVER
TOTAL:			216,343			

WY 2008 TRANSMOUNTAIN DIVERSION SUMMARY - OUTFLOWS

RECIPIENT					SOURCE	
DIV/WD	DIVERSION STRUCTURE	STREAM	ACRE-FEET	DAYS	DIV/WD	STREAM
5/36&37	STEVENS-LEITER WELL (AKA ARKANSAS WELL)	BLUE/EAGLE RIVERS	196	304	2/11	GROUNDWATER
TOTAL:			196			

Water Diversion Summary – Use Type by Water District

2009 WATER DIVERSION SUMMARIES TO VARIOUS USES

WD	TRANS MOUNTAIN OUTFLOW	TRANS- BASIN OUTFLOW	EXPORT FROM STATE	MUNICIPAL	COMMERCIAL	INDUSTRIAL	RECREATION	FISHERY	FIRE	DOMESTIC	HOUSEHOLD USE ONLY	STOCK
10	0	0	0	102879	1142	165	0	0	0	40	0	23
11	0	583	0	4305	623	0	0	5255	0	108	0	0
12	0	2016	0	10536	45	52493	681	0	0	65	0	0
13	0	0	0	218	13	0	0	0	0	10	0	6
14	0	0	0	42016	755	104	0	0	0	53	0	0
15	0	0	0	1766	17	4210	0	397	0	14	0	3
16	0	0	0	3645	24	0	1469	513	0	44	0	0
17	0	0	0	6054	366	3	0	767	0	6	0	0
18	0	0	0	113	0	0	0	0	0	0	0	0
19	0	0	0	3447	14	0	0	0	0	20	0	186
66	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	3191	1247	5729	4	0	0	516	0	4
79	0	0	0	12	0	0	0	0	0	7	0	0
TOTAL	0	2599	0	178182	4245	62704	2154	6931	0	884	0	222

WD	AUGMENTATION	EVAPORATION	FEDERAL RESERVE	GEOTHERMAL	SNOWMAKING	MIN STREAMFLOW	POWER GENERATION	WILDLIFE	RECHARGES	OTHER	ALL BENEFICIAL USE
10	14741	52	0	0	0	0	2715	0	0	0	34
11	3762	99	0	34	0	0	9828	0	0	3624	0
12	712	77	0	0	0	0	31529	0	0	50	0
13	969	0	0	0	0	0	0	0	0	0	0
14	16991	952	0	0	0	0	9043	0	3644	0	0
15	567	3	0	0	0	0	0	0	0	0	0
16	329	0	0	0	0	0	0	0	0	0	0
17	20931	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0
19	49	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0
67	21440	45	0	0	0	0	0	0	2000	0	0
79	93	0	0	0	0	0	0	0	0	0	0
TOTAL	80585	1229	0	34	0	0	53114	0	5644	3674	34

Report Date:7/9/2010

Water Diversion Summary – Various Statistics by Water District

2009 WATER DIVERSION SUMMARIES

WD	STRUCTURES REPORTING				Estimated # of recorded readings at Structure	ALL STRUCTURES			TO IRRIGATION			
	With Record	No Water Avail.	No Water Taken	No Info Avail.		Total Diversions*	Total Surface Diversions*	Total Groundwater Diversions	Total Diversions to Storage*	Total Diversions to Irrigation	Number of Acres Irrigated	Average AF Per Acre
	(1)	(2)	(3)	(4)		(AF)	(AF)	(AF)	(AF)	(AF)		
10	983	3	120	47	19173	179843	159257	20586	31111	41705	0	0.00
11	463	18	23	253	17519	362534	360523	2010	207001	131571	0	0.00
12	298	8	38	134	10974	227531	224941	1591	926	129043	0	0.00
13	365	6	83	37	1911	39255	38894	361	3253	35121	0	0.00
14	831	7	15	16	3463	252676	237909	14766	98331	97777	0	0.00
15	240	4	69	15	3739	17649	17141	508	1	11238	0	0.00
16	143	46	77	8	4606	17846	17785	62	1062	11090	0	0.00
17	1134	34	65	5	4856	736054	689843	46211	100582	667981	0	0.00
18	56	4	27	0	1175	8673	8579	93	0	8561	0	0.00
19	194	14	64	55	3275	78629	78557	72	16001	58960	0	0.00
66	13	1	14	2	12	84	84	0	0	84	0	0.00
67	1116	11	51	22	4664	312277	243819	68458	33606	255053	0	0.00
79	203	34	48	0	5013	31590	31573	18	3505	28018	0	0.00
TOTAL	6039	190	694	594	80380	2264641	2108905	154736	495379	1476200	0	

Definitions: (1) Count of structures with daily or infrequent diversion records

- (2) Count of structures with NUC=B
- (3) Count of structures with NUC=(A,C,D)
- (4) Count of structures with NUC=(E,F)

• Note: The following diversions to storage were added to the standard Hydrobase Report query result:

- o WD 11 Added 8,084 AF for Clear Creek (source PBWW), 139,462.6 AF for Turquoise Reservoir (source USBR), 65,580.48 AF for Twin Lakes Reservoir (source USBR)
- o WD 12 Added 573 AF for Mt. Pisgah Reservoir (source Winter Water 2250 Report)
- o WD 13 Added 3,059 AF for DeWeese Reservoir (source Winter Water 2250 Report)
- o WD 14 Added 97,457 AF for Pueblo Reservoir (source Pueblo Reservoir Accounting DWR)
- o WD 19 Added 15729 AF for Trinidad Reservoir (source Trinidad Reservoir Accounting DWR)
- o WD 67 Added 33606 AF for John Martin Reservoir (source John Martin Reservoir Accounting DWR)

Report Date:7/9/2010

Arkansas River Calls

Arkansas River Calls IY 2009

Date	PriorityDate	ArkansasRiverCall
November 1, 2008	3/1/1887	Fort Lyon II
November 2, 2008	3/1/1887	Fort Lyon II
November 3, 2008	3/1/1887	Fort Lyon II
November 4, 2008	3/1/1887	Fort Lyon II
November 5, 2008	3/1/1887	Fort Lyon II
November 6, 2008	3/1/1887	Fort Lyon II
November 7, 2008	3/1/1887	Fort Lyon II
November 8, 2008	3/1/1887	Fort Lyon II
November 9, 2008	3/1/1887	Fort Lyon II
November 10, 2008	3/1/1887	Fort Lyon II
November 11, 2008	3/1/1887	Fort Lyon II
November 12, 2008	3/1/1887	Fort Lyon II
November 13, 2008	3/1/1887	Fort Lyon II
November 14, 2008	3/1/1887	Fort Lyon II
November 15, 2008	3/1/1910	Winter Storage
November 16, 2008	3/1/1910	Winter Storage
November 17, 2008	3/1/1910	Winter Storage
November 18, 2008	3/1/1910	Winter Storage
November 19, 2008	3/1/1910	Winter Storage
November 20, 2008	3/1/1910	Winter Storage
November 21, 2008	3/1/1910	Winter Storage
November 22, 2008	3/1/1910	Winter Storage
November 23, 2008	3/1/1910	Winter Storage
November 24, 2008	3/1/1910	Winter Storage
November 25, 2008	3/1/1910	Winter Storage
November 26, 2008	3/1/1910	Winter Storage
November 27, 2008	3/1/1910	Winter Storage
November 28, 2008	3/1/1910	Winter Storage
November 29, 2008	3/1/1910	Winter Storage
November 30, 2008	3/1/1910	Winter Storage
December 1, 2008	3/1/1910	Winter Storage
December 2, 2008	3/1/1910	Winter Storage
December 3, 2008	3/1/1910	Winter Storage
December 4, 2008	3/1/1910	Winter Storage
December 5, 2008	3/1/1910	Winter Storage
December 6, 2008	3/1/1910	Winter Storage
December 7, 2008	3/1/1910	Winter Storage
December 8, 2008	3/1/1910	Winter Storage
December 9, 2008	3/1/1910	Winter Storage
December 10, 2008	3/1/1910	Winter Storage
December 11, 2008	3/1/1910	Winter Storage
December 12, 2008	3/1/1910	Winter Storage
December 13, 2008	3/1/1910	Winter Storage
December 14, 2008	3/1/1910	Winter Storage
December 15, 2008	3/1/1910	Winter Storage
December 16, 2008	3/1/1910	Winter Storage
December 17, 2008	3/1/1910	Winter Storage

Arkansas River Calls IY 2009

Date	PriorityDate	ArkansasRiverCall
December 18, 2008	3/1/1910	Winter Storage
December 19, 2008	3/1/1910	Winter Storage
December 20, 2008	3/1/1910	Winter Storage
December 21, 2008	3/1/1910	Winter Storage
December 22, 2008	3/1/1910	Winter Storage
December 23, 2008	3/1/1910	Winter Storage
December 24, 2008	3/1/1910	Winter Storage
December 25, 2008	3/1/1910	Winter Storage
December 26, 2008	3/1/1910	Winter Storage
December 27, 2008	3/1/1910	Winter Storage
December 28, 2008	3/1/1910	Winter Storage
December 29, 2008	3/1/1910	Winter Storage
December 30, 2008	3/1/1910	Winter Storage
December 31, 2008	3/1/1910	Winter Storage
January 1, 2009	3/1/1910	Winter Storage
January 2, 2009	3/1/1910	Winter Storage
January 3, 2009	3/1/1910	Winter Storage
January 4, 2009	3/1/1910	Winter Storage
January 5, 2009	3/1/1910	Winter Storage
January 6, 2009	3/1/1910	Winter Storage
January 7, 2009	3/1/1910	Winter Storage
January 8, 2009	3/1/1910	Winter Storage
January 9, 2009	3/1/1910	Winter Storage
January 10, 2009	3/1/1910	Winter Storage
January 11, 2009	3/1/1910	Winter Storage
January 12, 2009	3/1/1910	Winter Storage
January 13, 2009	3/1/1910	Winter Storage
January 14, 2009	3/1/1910	Winter Storage
January 15, 2009	3/1/1910	Winter Storage
January 16, 2009	3/1/1910	Winter Storage
January 17, 2009	3/1/1910	Winter Storage
January 18, 2009	3/1/1910	Winter Storage
January 19, 2009	3/1/1910	Winter Storage
January 20, 2009	3/1/1910	Winter Storage
January 21, 2009	3/1/1910	Winter Storage
January 22, 2009	3/1/1910	Winter Storage
January 23, 2009	3/1/1910	Winter Storage
January 24, 2009	3/1/1910	Winter Storage
January 25, 2009	3/1/1910	Winter Storage
January 26, 2009	3/1/1910	Winter Storage
January 27, 2009	3/1/1910	Winter Storage
January 28, 2009	3/1/1910	Winter Storage
January 29, 2009	3/1/1910	Winter Storage
January 30, 2009	3/1/1910	Winter Storage
January 31, 2009	3/1/1910	Winter Storage
February 1, 2009	3/1/1910	Winter Storage
February 2, 2009	3/1/1910	Winter Storage

Arkansas River Calls IY 2009

Date	PriorityDate	ArkansasRiverCall
February 3, 2009	3/1/1910	Winter Storage
February 4, 2009	3/1/1910	Winter Storage
February 5, 2009	3/1/1910	Winter Storage
February 6, 2009	3/1/1910	Winter Storage
February 7, 2009	3/1/1910	Winter Storage
February 8, 2009	3/1/1910	Winter Storage
February 9, 2009	3/1/1910	Winter Storage
February 10, 2009	3/1/1910	Winter Storage
February 11, 2009	3/1/1910	Winter Storage
February 12, 2009	3/1/1910	Winter Storage
February 13, 2009	3/1/1910	Winter Storage
February 14, 2009	3/1/1910	Winter Storage
February 15, 2009	3/1/1910	Winter Storage
February 16, 2009	3/1/1910	Winter Storage
February 17, 2009	3/1/1910	Winter Storage
February 18, 2009	3/1/1910	Winter Storage
February 19, 2009	3/1/1910	Winter Storage
February 20, 2009	3/1/1910	Winter Storage
February 21, 2009	3/1/1910	Winter Storage
February 22, 2009	3/1/1910	Winter Storage
February 23, 2009	3/1/1910	Winter Storage
February 24, 2009	3/1/1910	Winter Storage
February 25, 2009	3/1/1910	Winter Storage
February 26, 2009	3/1/1910	Winter Storage
February 27, 2009	3/1/1910	Winter Storage
February 28, 2009	3/1/1910	Winter Storage
March 1, 2009	3/1/1910	Winter Storage
March 2, 2009	3/1/1910	Winter Storage
March 3, 2009	3/1/1910	Winter Storage
March 4, 2009	3/1/1910	Winter Storage
March 5, 2009	3/1/1910	Winter Storage
March 6, 2009	3/1/1910	Winter Storage
March 7, 2009	3/1/1910	Winter Storage
March 8, 2009	3/1/1910	Winter Storage
March 9, 2009	3/1/1910	Winter Storage
March 10, 2009	3/1/1910	Winter Storage
March 11, 2009	3/1/1910	Winter Storage
March 12, 2009	3/1/1910	Winter Storage
March 13, 2009	3/1/1910	Winter Storage
March 14, 2009	3/1/1910	Winter Storage
March 15, 2009	12/3/1884	Catlin
March 16, 2009	12/3/1884	Catlin
March 17, 2009	12/3/1884	Catlin
March 18, 2009	12/3/1884	Catlin
March 19, 2009	12/3/1884	Catlin
March 20, 2009	12/3/1884	Catlin
March 21, 2009	12/3/1884	Catlin

Arkansas River Calls IY 2009

Date	PriorityDate	ArkansasRiverCall
March 22, 2009	12/3/1884	Catlin
March 23, 2009	12/3/1884	Catlin
March 24, 2009	12/3/1884	Catlin
March 25, 2009	12/3/1884	Catlin
March 26, 2009	12/3/1884	Catlin
March 27, 2009	3/1/1887	Fort Lyon II
March 28, 2009	3/2/1892	Holbrook
March 29, 2009	3/11/1896	Highline
March 30, 2009	3/1/1887	Fort Lyon II
March 31, 2009	3/1/1887	Fort Lyon II
April 1, 2009	9/25/1889	Holbrook
April 2, 2009	3/1/1887	Fort Lyon II
April 3, 2009	12/3/1884	Catlin
April 4, 2009	12/3/1884	Catlin
April 5, 2009	12/3/1884	Catlin
April 6, 2009	12/3/1884	Catlin
April 7, 2009	12/3/1884	Catlin
April 8, 2009	3/1/1887	Fort Lyon II
April 9, 2009	3/1/1887	Fort Lyon II
April 10, 2009	3/11/1886	Highline
April 11, 2009	3/11/1886	Highline
April 12, 2009	12/3/1884	Catlin
April 13, 2009	12/3/1884	Catlin
April 14, 2009	12/3/1884	Catlin
April 15, 2009	3/1/1887	Fort Lyon II
April 16, 2009	3/1/1887	Fort Lyon II
April 17, 2009	3/1/1887	Fort Lyon II
April 18, 2009	3/1/1887	Fort Lyon II
April 19, 2009	5/1/1887	Bessemer
April 20, 2009	3/1/1887	Fort Lyon II
April 21, 2009	3/1/1887	Fort Lyon II
April 22, 2009	3/1/1887	Fort Lyon II
April 23, 2009	3/1/1887	Fort Lyon II
April 24, 2009	3/1/1887	Fort Lyon II
April 25, 2009	2/21/1887	Amity
April 26, 2009	2/21/1887	Amity
April 27, 2009	2/21/1887	Amity I
April 28, 2009	2/21/1887	Amity I
April 29, 2009	2/21/1887	Amity I
April 30, 2009	2/21/1887	Amity I
May 1, 2009	2/21/1887	Amity I
May 2, 2009	2/21/1887	Amity I
May 3, 2009	2/21/1887	Amity I
May 4, 2009	2/21/1887	Amity I
May 5, 2009	2/21/1887	Amity I
May 6, 2009	2/21/1887	Amity I
May 7, 2009	3/1/1887	Fort Lyon II

Arkansas River Calls IY 2009

Date	PriorityDate	ArkansasRiverCall
May 8, 2009	2/21/1887	Amity I
May 9, 2009	2/21/1887	Amity I
May 10, 2009	2/21/1887	Amity I
May 11, 2009	2/21/1887 AND 2/26/1887	Split Call: Amity I/Oxford II
May 12, 2009	2/21/1887 AND 2/26/1887	Split Call: Amity I/Oxford II
May 13, 2009	2/26/1887	Oxford II
May 14, 2009	3/1/1887 & 5/1/1887	Split Call: Fort Lyon/Bessemer
May 15, 2009	3/1/1887 & 1/6/1890	Split Call: Fort Lyon II/Rocky Ford Highline III
May 16, 2009	3/1/1887 & 1/6/1890	Split Call: Fort Lyon II/Rocky Ford Highline III
May 17, 2009	1/6/1890	Rocky Ford Highline
May 18, 2009	3/13/1888	Consolidated
May 19, 2009	2/14/1887	Catlin
May 20, 2009	11/14/1887	Catlin
May 21, 2009	1/6/1890	Rocky Ford Highline / Excelsior
May 22, 2009	8/1/1896	Great Plains.
May 23, 2009	8/1/1896 - 3/2/1892	Great Plains / Holbrook
May 24, 2009	3/2/1892-4/1/1893	Holbrook/Amity II
May 25, 2009	3/2/1892-4/1/1893	Holbrook/Amity II
May 26, 2009	4/1/1893	Amity II
May 27, 2009	4/1/1893	Amity II
May 28, 2009	4/1/1893	Amity II
May 29, 2009	4/1/1893 - 6/9/1890	Amity II / Colorado Canal
May 30, 2009	6/9/1890 - 4/1/1893	Colodado Canal / Amity II
May 31, 2009	1/6/1890 - 4/1/1893	Highline / Amity II
June 1, 2009	3/3/1890 - 4/1/1893	Otero / Amity II
June 2, 2009	8/31/1893 - 8/1/1896	Fort Lyon III / Great Plains
June 3, 2009	8/31/1893 - 8/1/1896	Fort Lyon III / Great Plains
June 4, 2009	8/1/1896	Great Plains
June 5, 2009	8/1/1896	Great Plains Storage
June 6, 2009	8/1/1896	Great Plains Storage
June 7, 2009	6/9/1890 - 8/1/1896	Colorado/Great Plains
June 8, 2009	6/9/1890 - 8/1/1896	Colorado/Great Plains
June 9, 2009	6/9/1890 - 8/1/1896	Colorado/Great Plains
June 10, 2009	6/9/1890 - 8/1/1896	Colorado/Great Plains
June 11, 2009	6/9/1890	Colorado Canal
June 12, 2009	1/6/1890	Highline/Excelsior
June 13, 2009	5/1/1887	Bessemer/Excelsior
June 14, 2009	5/1/1887	Bessemer/Excelsior
June 15, 2009	1/6/1890	Highline/Excelsior
June 16, 2009	1/6/1890-4/1/1893	Highline/Excelsior/Amity II
June 17, 2009	1/6/1890-4/1/1893	Highline/Excelsior/Amity II
June 18, 2009	9/25/1889-4/1/1893	Hiolbrook/Amity II
June 19, 2009	9/25/1889-4/1/1893	Hiolbrook/Amity II
June 20, 2009	11/14/1887	Catlin II
June 21, 2009	11/14/1890	Catlin II
June 22, 2009	1/6/1890	Excelsior/Highline
June 23, 2009	6/9/1890	Colorado Canal

Arkansas River Calls IY 2009

Date	PriorityDate	ArkansasRiverCall
June 24, 2009	1/6/1890	Highline/Excelsior
June 25, 2009	1/6/1890	Highline/Excelsior
June 26, 2009	1/6/1890	Highline/Excelsior
June 27, 2009	9/25/1889	Holbrook
June 28, 2009	9/25/1889	Holbrook
June 29, 2009	3/3/1890	Otero
June 30, 2009	6/9/1890	Colorado Canal
July 1, 2009	6/9/1890	Colorado Canal
July 2, 2009	1/6/1890	Rocky Ford Highline
July 3, 2009	9/25/1889	Holbrook
July 4, 2009	9/25/1889	Holbrook
July 5, 2009	9/25/1889	Holbrook
July 6, 2009	6/9/1890 - 4/1/1893	ColoCanal/Amity II
July 7, 2009	6/9/1890 - 4/1/1893	ColoCanal/Amity II
July 8, 2009	1/6/1890	Rocky Ford Highline
July 9, 2009	3/13/1888	Las Animas Consolidated
July 10, 2009	3/1/1887	Fort Lyon II
July 11, 2009	3/1/1887	Fort Lyon II
July 12, 2009	3/1/1887	Fort Lyon II
July 13, 2009	3/1/1887	Fort Lyon II
July 14, 2009	3/1/1887	Fort Lyon II
July 15, 2009	3/1/1887	Fort Lyon II
July 16, 2009	2/26/1887	Oxford II
July 17, 2009	2/21/1887	Amity I
July 18, 2009	2/21/1887	Amity I
July 19, 2009	2/21/1887	Amity I
July 20, 2009	2/21/1887	Amity I
July 21, 2009	2/21/1887	Amity I
July 22, 2009	2/21/1887	Amity I
July 23, 2009	2/21/1887 - 3/1/1887	Amity/Fort Lyon II
July 24, 2009	2/21/1887	Amity I
July 25, 2009	2/21/1887	Amity
July 26, 2009	2/21/1887	Amity I
July 27, 2009	2/21/1887 - 3/1/1887	Amity / Fort Lyon II
July 28, 2009	3/1/1887	Fort Lyon II
July 29, 2009	3/1/1887	Fort Lyon II
July 30, 2009	3/1/1887	Fort Lyon II
July 31, 2009	8/1/1896	Great Plains
August 1, 2009	4/1/1893	Amity II
August 2, 2009	3/1/1887	Fort Lyon II
August 3, 2009	3/1/1887	Fort Lyon II
August 4, 2009	3/1/1887	Fort Lyon II
August 5, 2009	3/1/1887	Fort Lyon II
August 6, 2009	2/21/1887	Amity
August 7, 2009	2/21/1887	Amity
August 8, 2009	2/21/1887	Amity
August 9, 2009	2/21/1887	Amity

Arkansas River Calls IY 2009

Date	PriorityDate	ArkansasRiverCall
August 10, 2009	2/21/1887	Amity
August 11, 2009	2/21/1887	Amity
August 12, 2009	12-3-1884 & 2-21-1887	Catlin / Amity
August 13, 2009	12-3-1884 & 2-21-1887	Catlin / Amity
August 14, 2009	12-3-1884 & 2-21-1887	Catlin / Amity
August 15, 2009	12-3-1884 & 2-21-1887	Catlin / Amity
August 16, 2009	12-3-1884 & 2-21-1887	Catlin / Amity
August 17, 2009	12/3/1884 - 2/21/1887	Catlin / Amity
August 18, 2009	12/3/1884 - 11/4/1886	Catlin / Lamar
August 19, 2009	12/3/1884 - 2/21/1887	Catlin / Amity
August 20, 2009	12/3/1884 - 2/21/1887	Catlin / Amity
August 21, 2009	2/21/1887	Amity
August 22, 2009	12/3/1884 - 2/21/1887	Catlin/Amity
August 23, 2009	12/3/1884 - 2/21/1887	Catlin/Amity
August 24, 2009	12/3/1884 - 2/21/1887	Catlin/Amity
August 25, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
August 26, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
August 27, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
August 28, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
August 29, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
August 30, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
August 31, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
September 1, 2009	12/3/1884 - 2/21/1887	Catlin / Amity
September 2, 2009	12/3/1884 - 2/21/1887	Catlin / Amity
September 3, 2009	12/3/1884 - 2/21/1887	Catlin / Amity
September 4, 2009	12/3/1884 - 2/21/1887	Catlin/Amity
September 5, 2009	12/3/1884 - 2/21/1887	Catlin/Amity
September 6, 2009	12/3/1884 - 2/21/1887	Catlin/Amity
September 7, 2009	12/3/1884 - 2/21/1887	Catlin/Amity
September 8, 2009	12/3/1884 - 2/21/1887	Catlin/Amity
September 9, 2009	12/3/1884 - 2/21/1887	Catlin/Amity
September 10, 2009	12/3/1884 - 2/21/1887	Catlin/Amity
September 11, 2009	12/3/1884 - 11/4/1886	Consolidated/Lamar
September 12, 2009	12/3/1884 - 11/4/1886	Consolidated/Lamar
September 13, 2009	12/3/1884 - 11/4/1886	Consolidated/Lamar
September 14, 2009	12/3/1884 - 11/4/1886	Consolidated/Lamar
September 15, 2009	2/21/1887	Amity I
September 16, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
September 17, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
September 18, 2009	11/4/1886	Lamar
September 19, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
September 20, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
September 21, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
September 22, 2009	12/3/1884 - 2/21/1887	Catlin/Amity
September 23, 2009	12/3/1884 - 2/21/1887	Catlin/Amity
September 24, 2009	2/21/1887	Amity
September 25, 2009	2/21/1887	Amity

Arkansas River Calls IY 2009

Date	PriorityDate	ArkansasRiverCall
September 26, 2009	2/21/1887	Amity
September 27, 2009	2/21/1887	Amity
September 28, 2009	2/21/1887	Amity
September 29, 2009	2/21/1887	Amity
September 30, 2009	2/21/1887	Amity
October 1, 2009	2/21/1887	Amity
October 2, 2009	2/21/1887	Amity
October 3, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
October 4, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
October 5, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
October 6, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
October 7, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
October 8, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
October 9, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
October 10, 2009	12/3/1884 - 11/4/1886	Catlin/Lamar
October 11, 2009	11/4/1886	Lamar
October 12, 2009	11/4/1886	Lamar
October 13, 2009	2/21/1887	Amity
October 14, 2009	2/21/1887	Amity
October 15, 2009	2/21/1887	Amity
October 16, 2009	2/21/1887	Amity
October 17, 2009	2/21/1887	Amity I
October 18, 2009	2/21/1887	Amity I
October 19, 2009	2/21/1887	Amity I
October 20, 2009	2/21/1887	Amity I
October 21, 2009	2/21/1887	Amity I
October 22, 2009	3/1/1887	Fort Lyon II
October 23, 2009	3/1/1887	Fort Lyon II
October 24, 2009	3/1/1887	Fort Lyon II
October 25, 2009	3/1/1887	Fort Lyon II
October 26, 2009	3/1/1887	Fort Lyon II
October 27, 2009	3/1/1887	Fort Lyon II
October 28, 2009	3/1/1887	Fort Lyon II
October 29, 2009	3/1/1887	Fort Lyon II
October 30, 2009	3/1/1887	Fort Lyon II
October 31, 2009	3/1/1887 - 5/1/1887	Fort Lyon II/Bessemer

Water Court Activity

2009 WATER COURT ACTIVITY		
NUMBER OF APPLICATIONS	150	
NUMBER OF DECREES ISSUED	127	
TYPE	TYPES OF APPLICATIONS *	TYPES OF DECREES *
ALTERNATE POINT OF DIVERSION	0	0
AUGMENTATION PLAN	17	27
CHANGE OF EXISTING RIGHT	18	19
COMPLAINT/INJUNCTION	4	1
NEW SURFACE RIGHT	27	27
NEW STORAGE RIGHT	12	5
NEW UNDERGROUND RIGHT	34	61
CONTINUING DILIGENCE/ABSOLUTE	12	20
EXCHANGE	7	4
PROTEST TO ABANDONMENT LIST	0	0
TOTAL	131	164
* SOME APPLICATIONS OR DECREES ARE OF MULTIPLE TYPES		

Organizational Chart

DIVISION 2 ENGINEER			
Steve Witte PE IV (189)			
Information Technology	Dam Safety		
Dustin Valdez, IT Prof II (465)	Mark Perry, PE II (425) Bill McCormick, PE II (255)		
		Administrative Support	
		Wendy Bogard, Prog Asst II (227) Vacant, Admin Asst II (463)	
Surface Water Operations	Litigation Support		Ground Water Operations
Assistant Division Engineer	Assistant Division Engineer		Ground Water Operations Coordinator
Bill Tyner, PE III (455)	Steve Kastner, PE II (182)		VACANT, PE II (462)
Hydrography	Well Commissioner		Ground Water Information
Lead Hydro, Charles DiDomenico, PE I (256)	Janet Garoutte, EPST II (21)		Kathy Trask, EPST II (327)-GW Data & Systems
Hydro, Cheston Hart, EIT I (222)	Surface Water Commissioners		Audrey Sartin, EPST II (461)-GW Data & Compliance
Hydro, Adam Adame, EPST II (458)	Water District 11		Vacant, EPST I (493)-GW Data
Hydro, Tony Gutierrez, EPST II (194)	Bruce Smith, EPST II (141)		Ground Water Enforcement
Data Analyst	Deputy, Dave Kelly, EPSA III (2452)		Dale Baker, EPST II (459)-Lead for Upper Basin Enf
Janet Dash, PSRS II (2466)	Deputy, VACANT, (2142)		Jeanette Bryan, EPST I (456)-Upper Basin Enf
Augmentation Coordinator	Water District 12/13		Vacant, Temporary Aide (454)-Temp (Upper Basin Enf)
Justin Zeisler, EIT III (453)	Charlie Judge, EPST II (17)		Dan DiRezza, EPST II (460)-Lead for Lower Basin Enf
Decreed Augmentation Coordinator	Deputy WD12, Dave Jones, EPSA III (2435)		Lloyd Wadleigh, EPST I (44)-Lower Basin Enf
Bill Richie, PSRS II (217)	Deputy, WD12, Mike Reed, EPSA II (2089)		Vacant, Temporary Aide (454)-Temp (Lower Basin Enf)
GIS Data Management Technician	Deputy, WD13, Jerry Livengood, EPST I, (2111)		
Ina Bernard, EPST II (468)	Water District 79		
Surface Water Commissioners	Ray Garcia, EPST I (2063)		
Water District 16/18			
Doug Brgoch, EPST II (73)			
Dep-WD18, Dan Valentine, EPSA III (2122)			
River Operations			
River Operation Coordinator			
Joe Flory, PSRS IV (466)			
Res Ops, Rob Phillips, PSRS I (37)			
Surface Water Commissioners			
Water District 10			
Brian Sutton, EPST III (1)			
Deputy, Doug Hollister, EPST I (445)			
Water District 14/15			
John Van Oort, EPST II (325)			
Water District 17			
Don Taylor, EPST III (15)			
Deputy, Lonnie Spady, EPSA II (2481)			
Water District 19			
Jeff Montoya, EPST II (9)			
Deputy, VACANT, EPSA II (2136)			
Water District 66/67			
Dan Neuhold, EPST I (13)			

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