2010 LEGISLATIVE REPORT
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CHAPTER 1. WYOMING WATER DEVELOPMENT PROGRAM

I. Introduction

A. Vision

We envision a Wyoming where people can develop the skills needed to seize the opportunities to live their individual dreams; a Wyoming where people enjoy an environment free from contaminants and secure from harm; a Wyoming where people can attain a quality standard of living; and a Wyoming where people can enjoy the benefits of our bountiful resources and natural beauty.

B. Philosophy

The Wyoming Water Development Program was founded on the sound philosophy of utilizing a portion of the income the state receives from the development and use of its non-renewable resources, such as coal, oil and gas, to develop and manage a renewable resource, water. One way in which water resource management is achieved is by evaluating development and rehabilitation strategies, and selecting the best alternatives for constructing new or rehabilitating existing infrastructure. In this manner, the Wyoming Water Development Program will ensure the delivery of water to Wyoming citizens in an economical and environmentally responsible manner. Sound water planning and use will preserve Wyoming's water entitlements and will promote the effective and efficient use of the state's water resources.

C. Contribution to Wyoming Quality of Life

This agency contributes to the quality of life by addressing the water resources needs of our citizens through the construction of new water supply projects and the rehabilitation of existing water supply projects. As a result, Wyoming's water resources are managed, developed, and maintained for the enjoyment and beneficial use of current and future generations of Wyoming. The Wyoming Water Development Program benefits the entire population, as well as all visitors to the state, by providing and maintaining adequate water supplies and planning for future needs.

II. Duties and Responsibilities

Each year precipitation events and runoff generate an average of 16 million acre-feet of surface water within the State of Wyoming. An additional 2 million acre-feet of stream flow originates from other states. Of this 18 million acre feet of surface water, Wyoming is entitled, under the various interstate river compacts and court decrees, to use or consume approximately 4 million acre feet per year. Presently, the state uses 3.0 million acre-feet of surface water per year. Therefore, approximately 1.0 million acre-feet of surface water remains available for Wyoming's future use.

The water demands of downstream states are increasing as these states approach or exceed the limits of their water entitlements. Consequently, Wyoming may expect requests for variances or challenges to the historic interpretations of the compacts and decrees that guarantee Wyoming a share of water originating in the state. Further, the federal government is seeking water to resolve endangered species and environmental issues that are occurring downstream.

Court decisions have validated the position that water entitlements are best protected by beneficial use. Unfortunately, Wyoming's water resources are not always located where they are needed. The Wyoming Water Development Program serves to provide and rehabilitate the infrastructure to deliver water to the people with water supply problems and to promote the effective and efficient management and use of the state's water, thus maintaining Wyoming's entitlements.

Water availability is a key ingredient for development of a stable Wyoming economy. Implementation of water management opportunities provides short-term economic benefits to the state in the form of jobs, increased material and equipment sales, improved recreational and hunting and fishing opportunities, and other indirect benefits to local and state economies.

A. Water Resource Development

In 1977, the revenue sources that fund the New Development Program were established. In 1982, the governor proposed and the legislature implemented the framework for the present Water Development Program. In 1983, the revenue streams that fund the Rehabilitation Program were established. Since 1983 the program's water resource management activities have evolved to the following:

1. New Development Program

The New Development Program provides planning services and construction funds for the infrastructure necessary to supply unused and/or unappropriated water to meet the present and future needs of Wyoming and its citizens. Water supply and storage facilities such as dams, diversion structures, groundwater wells and transmission pipelines are eligible for assistance under the New Development Program. The New Development Program is dedicated to the efficient and timely management of water resources, consistent with state policy, Wyoming water laws, and the desires of the citizens of the state. The criteria for scheduling new development projects is based on the general philosophy that effective beneficial use of Wyoming's water will insure its preservation for use by Wyoming residents.

A project sponsor may be a municipality, irrigation district, or other approved assessment district that is a major beneficiary of the project. Sponsors request project specific technical and financial assistance from the Wyoming Water Development Commission through the application process. If the Commission approves the application, the project is assigned a study level. If the project is determined to be technically and economically feasible and comports with program funding criteria, the Commission may recommend that construction funding be appropriated by the legislature. The project sponsor must be willing and capable of financially supporting a percentage of the project development costs plus all operation and maintenance costs. The actual loan/grant mix is based on WWDC funding criteria.

2. Rehabilitation Program

The Rehabilitation Program provides funding assistance for the improvement of water projects completed and in use for at least fifteen (15) years. Improvements to insure dam safety, decrease operation and maintenance costs, promote water conservation, or provide a more efficient means of using existing water supplies may be funded by the

Rehabilitation Program. The program insures that existing water supplies and supply systems remain effective and viable.

Rehabilitation projects are typically initiated by an application from a project sponsor. If the application is deemed feasible and approved, the project is assigned a study level and can proceed through construction. The project sponsor must be willing and capable of financially supporting all operation and maintenance costs and a percentage of the project rehabilitation costs. The actual loan/grant mix is based on WWDC funding criteria.

3. Dam and Reservoir Program

In 2005, the legislature authorized funding for a new program within the Wyoming Water Development Office. The purpose of the program is to concentrate on the identification, evaluation, permitting, and construction of new dams with storage capacity of 2,000 acre feet or more and proposed expansions of existing dams of 1,000 acre-feet or more.

A new division within the Wyoming Water Development Office has been established to administer this program. The division also serves to assist the Director in the management of the state's water investments.

B. Water Resource Management and Planning

1. Water Investment Management

The Wyoming Water Development Commission (WWDC) was named as the successor agency to the Economic Development and Stabilization Board for the administration of the state's investment in Buffalo Bill and Fontenelle Reservoirs (Chapter 44 of the 1990 Session Laws). Subsequently, the state acquired storage in Palisades Reservoir (Chapter 18 of the 1991 Session Laws). The Wyoming Water Development Office is responsible for the operation and maintenance of the state's High Savery Dam and Reservoir.

In addition, the WWDC collects payments against outstanding project loans and monitors potential water sales from completed projects in which the state retained limited partnerships.

2. Instream Flow

The Water Development Commission has two roles relative to the instream flow law. One is assigned by statute. The other comes with serving as the water planning and development agency for the state.

a. W.S. 41-3-1004 assigns the Commission the responsibility to prepare feasibility reports for all instream flow permit applications. The reports are hydrological analyses of the water availability in the reach of the stream to which the applications apply. The analyses also quantify existing water rights above and within these stream segments. The WWDC has published approximately 100 feasibility studies.

b. As the water planning and development agency, the Commission will also review the instream flow requests to insure that they do not conflict with future potential water development opportunities.

3. Water Related Research

The Commission participates in research projects relative to water resource issues that are not necessarily project specific but that may influence water resource management in Wyoming. Many research projects gather information that is useful in addressing permitting issues, environmental problems, etc.

The Commission has developed working relationships with the State Engineer's Office, the U.S. Geological Survey, and the University of Wyoming to conduct research on such water related issues as hydrologic modeling, flushing flows, irrigation consumptive use requirements, conveyance loss, and riparian zone management.

4. Basin Wide Planning

The WWDC develops basin-wide plans that identify water supply problems and water development opportunities. Planning studies have been completed for the Bear River Basin, Green River Basin, Northeastern Wyoming (Little Missouri, Belle Fourche, Cheyenne, and Niobrara River Basins), Powder/Tongue River Basins, Wind/Big Horn River Basin, Snake/Salt River Basins, and the North Platte River Basin. In addition, the Wyoming Framework Water Plan was completed, which provides a statewide perspective of water resources. Presently, the WWDC is systematically updating basin planning studies.

5. Groundwater Grant Program

The 1981 Session of the Wyoming Legislature enacted W.S. 41-2-119 which authorized the Water Development Commission to grant up to three million dollars to incorporated cities and towns. These funds were to be utilized for feasibility studies and exploration programs to evaluate the potential use of underground water for municipal purposes. Municipalities were eligible to receive up to $200,000 in state funds and were required to provide 10% of total project costs in local matching funds. In 1984, the legislature amended W.S. 41-2-119 to add an additional one million dollars to the account and to increase the required local match from 10% to 25%.

During the 2002 Session, the Wyoming Water Development Commission recommended and the legislature authorized the inclusion of water and sewer districts and service and improvement districts as eligible program participants. As of December 31, 2009, over 40 entities had received assistance from the program.

6. Small Water Project Program

During the 2003 session, the legislature removed the pilot status from the statute and allowed for construction of the “small projects” throughout the state. Water Development Program funding is limited to fifty percent (50%) of the actual construction costs, or a maximum grant of twenty-five thousand dollars ($25,000) per project, for construction of the project, whichever is less. The WWDC was given the responsibility for developing program criteria and the authority to fund these small water projects.

The 2006 Legislative session suspended new applications to the Small Water Project Program effective July 1, 2006. Projects authorized prior to that date were allowed to continue, but no new applications were being accepted.

During the 2008 Legislative session, the program was extended to July 1, 2010. The Wyoming Water Development Commission and Legislative Select Water Oversight Committee approved new criteria for the Small Water Project Program. New applications have been received and will be reviewed by the Commission in March, 2010.

III. Program Funding

A. Water Development Account No. 1

The New Development Program is funded by Water Development Account No. 1 [W.S. 41-2-124(a)(I)] which has received direct appropriations from the general fund and budget reserve account, receives revenues from the severance tax distribution account, and receives the accrued interest on the account's unspent balance. Legislative approval must be granted prior to allocating water development account funds to a particular project. Income from the tax and interest and payments for outstanding loans ranges from $26,000,000 to $28,000,000 per year. The WWDC is committed to phase or delay projects to insure its recommendations do not result in overruns of the account.

Water Development Account No. 1 also funds the following:

1. Agency budget-The agency budget for the Wyoming Water Development Office (WWDO) is approximately $8,100,000 for the biennium.

2. Water Resource Data System-The WWDO funds the UW Water Resource Data System through the agency budget at a cost of approximately $890,000 per biennium.

3. Instream Flow-The WWDC requests $100,000 per biennium through the agency budget for consultant services for the completion of instream flow feasibility studies.

4. Water Related Research-The Wyoming Water Development Program invests $300,000 per year on non-project specific water related research.

5. UW Office of Water Programs-The WWDC provides $165,000 per biennium to assist in the financing of the UW Office of Water Programs.

6. Basin Wide Planning-The Wyoming Water Development Program has expended approximately $6,235,000 on the basin wide planning. All of the planning studies for the seven major drainage basins have been completed. The WWDO continues to update and expand these plans at a cost of $250,000 per year.

7. Groundwater Grant Program-The legislature, at the request of the WWDC, has appropriated $7,000,000 for the program, which serves to finance groundwater exploration studies for cities, towns, improvement and service districts, and water and sewer districts.

8. Small Water Projects Program-The legislature has invested $1,750,000 in the New Development component of the program.

9. DWSRF-By enacting W.S. 16-1-301, the legislature authorized the use of water development account I funds to meet federal matching grant requirements. The federal capitalization grant and the state's matching share is used to finance a "drinking water state revolving loan fund" (DWSRF) program. The DWSRF program may be used to fund improvements to water treatment systems and other Safe Drinking Water Act compliance issues. This program is not included in the annual omnibus water bill or agency budget. Water Development program funds (approximately $1,640,000 per biennium) are appropriated automatically by statute to match 10% of the federal capitalization grant.

10. Other-The Wyoming Legislature has periodically appropriated funds from the water development accounts to fund the operation of state government, special projects, and litigation. As of January 2010, $193,197,924 has been expended from Water Development Account No. 1 for these non-project purposes. In addition, through executive order by the Governor, the interest income to be received by the accounts was diverted to the general fund for three years, which impacted the accounts by approximately $41,284,873.

B. Water Development Account No. 2

The Rehabilitation Program is funded by Water Development Account No. 2 [W.S. 41-2-124(a)(ii)] which receives revenues from the severance tax distribution account and the interest accrued on the account's unspent balance. Legislative approval must be granted prior to allocating water development account funds to a particular project. Income from the tax and interest and payments for outstanding loans is approximately $6,000,000 per year. The WWDC is committed to phase or delay projects to insure its recommendations do not result in overruns of the account.

Water Development Account No. 2 also funds the following:

1. Small Water Projects Program-The legislature has invested $1,750,000 in the Rehabilitation component of the program.

2. Other-As of January 2010, $12,244,920 has been expended from Water Development Account No. 2 to fund the operation of state government, special projects, and litigation.

C. Water Development Account No.3

The 2005 Legislature created Water Development Account No. 3, appropriated $10,000,000 from the Budget Reserve Account, and transferred $54,070,000 from Water Account No. 1 to Water Account No. 3. In addition, the account receives revenues from the severance tax distribution account and the interest accrued on the account's unspent balance. Legislative approval must be granted prior to allocating water development account funds to a particular project. Income from the tax and interest and payments for outstanding loans is approximately $3,000,000 per year.

IV. Program Operations

The State Engineer's Office of Water Planning Program originally staffed the Interdepartmental Water Conference, which was the predecessor to the Wyoming Water Development Commission and Office. In 1979, the Wyoming Water Development Commission was formed and an independent staff was developed. The Commission was created to streamline the administration of the program and make it more effective.

The statutory authority for the Wyoming Water Development Program is vested with the ten-member Wyoming Water Development Commission (WWDC), which meets 5 to 7 times per year. The program is administered through the Wyoming Water Development Office (WWDO), which includes a director and 25 staff members. Over the past five years, the commission and staff have overseen and administered project expenditures averaging approximately $30 million dollars per year.

The Wyoming Legislature has periodically increased the responsibilities of the WWDC and WWDO. In 1986, the administration of the construction of water development projects was transferred from the Department of Economic Planning and Development (DEPAD) to the WWDC. Also in 1986, the legislature assigned the WWDC responsibilities with respect to the instream flow law. In 1991, the management of the state's water investments was transferred from the Economic Development and Stabilization Board to the WWDC.

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The Wyoming Water Development Office encompasses four Divisions: Planning, Construction, Dam and Reservoir, and Administration. Each division has an administrator who reports to the Director of the Agency. The Director is responsible for the operation of the entire program, serves as the contact with the WWDC, Governor, and legislature, and performs special assignments for the Governor.

Individual project administration is the priority of the WWDO. It is interesting to note that the number of projects within the program determines the staff workload, as opposed to the level of the appropriations. Administering a small project can be more time consuming than working on a larger project. The WWDC will continue to use up-to-date technology to reduce administrative costs and to produce state-of-the-art plans and projects.

The WWDC contracts with private sector consultants for the preparation of river basin plans and project technical studies, such as Level I Reconnaissance Studies and Level II Feasibility Studies. Further, the WWDC contracts with the project sponsors who serve as the lead entity during the Level III Construction process. The project sponsors use private sector consultants for preparation of project plans and specifications. They are also required to solicit bids from private contractors for project construction.

While the statutes pertaining to the Wyoming Water Development Program provide guidance and the framework for the program, they were intentionally meant to be very broad. The Wyoming Water Development Commission is responsible for developing the priorities, guidelines, and criteria for the program. The "Operating Criteria of the Wyoming Water Development Program" have been developed by the WWDC in consultation with the legislature's Select Water Committee. The criteria are reviewed on an annual basis to ensure it directs the program in an efficient and effective manner, and continues to address the needs of Wyoming in a manner consistent with available program resources.

V. Program Evolution

The following is a breakdown of total program expenditures from 1980 to January, 2010:

	Percentage (%) of Total Expenditures		
Sector	WD Account No. 1	WD Account No. 2	WD Account No. 3
Multi-purpose	11.9	5.3	38.3
Agriculture	12.3	39.3	45.6
Municipal	45.9	45.8	16.1
Special Districts	6.7	2.8	-
Legal	4.0	3.9	-
Non-Project	19.2	2.9	-

Based on the program's history and projections into the future, the following conclusions can be made relative to the next five years:

A. The agricultural industry is presently concentrating on preserving what they have, rather than developing new supplies. The WWDC will continue to assist irrigation districts replace and repair their existing infrastructure in a phased approach, commensurate with each district's master plan and available WWDC and sponsor funding. The agricultural projects that rely on federal storage projects can expect financial impacts caused by unfunded federal mandates relating to dam safety, water conservation, endangered species, and environmental protection. The WWDC will need to assist districts to address these issues.

B. Municipalities must not only be concerned with the quantity of water they can supply for culinary, irrigation, and fire flow purposes, but must ensure that their water quality meets ever-changing EPA requirements. Further, as urban populations increase, the amount of water communities must supply for public health and welfare purposes must also increase. Municipalities need enough good quality water to meet their existing demands and the demands of the increasing number of subdivisions presently outside their corporate limits, as well as enough water to ensure future economic growth. The Wyoming Water Development Program has been responsive to the needs of Wyoming communities for the past 20 years, and while major municipal water supply projects have been funded, demands on the program for municipal purposes will continue for the next five years and beyond. The WWDC will continue to look at opportunities to develop and improve upon regional water supply systems.

C. Special districts that provide domestic water are faced with the same EPA requirements as municipalities. As a result, the Water Development Program is receiving an increasing number of requests for funding assistance from special districts. Wyoming's relatively weak subdivision laws are partially to blame for this problem. Subdivisions served by shallow wells sometimes experience water quality problems caused by septic and leach field systems. The long-term solution is to improve the municipal water supply systems so they can be supportive in solving the problems of the surrounding subdivisions. In the short term, it is apparent that the Wyoming Water Development Program will be receiving additional requests for funding assistance from special districts. However, the Water Development Program may not have sufficient resources to address all of the problems of the special districts. Therefore, those districts that are connecting to existing water supply systems will likely be looked upon more favorably by the WWDC than those wishing to develop independent supplies.

D. While dam construction and rehabilitation is an important element of the Water Development Program, the number of storage projects will not be as great as other water development projects. To date, seven new development storage projects and sixteen dam rehabilitation projects have been completed. The Buffalo Municipal project (Tie Hack Dam and Reservoir), Sheridan's Twin Lakes Dam and Reservoir, the Little Snake River Valley Dam and Reservoir project (High Savery) and the Greybull Valley Irrigation District's Roach Gulch project are the most recent projects. The Pathfinder Modification Project will be constructed in 2010/2011.

There are reasons the number of storage projects in the Water Development Program are less than other projects. The first and foremost reason is cost. It is very difficult for a project sponsor to afford a storage facility even with the most favorable financing terms available. Second, the federal permitting process is more costly, time consuming, and restrictive than it was in 1982. For example, in 1985, the federal 404 permit for the Sulphur Creek Dam was obtained in nine months, at a cost of approximately $50,000. In 1996, after three and one-half years, the Town of Buffalo received the 404 Permit for the Buffalo Municipal Dam (Tie Hack), a smaller and less complex project than the Sulphur Creek Dam. The actual costs related to permit acquisition were approximately $650,000. New federal requirements for wetlands mitigation, criteria involving purpose and need, and alternative analyses are the major reasons for the increased costs. The costs to secure the federal permits for the High Savery Dam exceeded $2,000,000.

In response to these problems, the Dam and Reservoir Division has been implemented to encourage project sponsors to partner with the WWDC to construct new storage facilities. The Wyoming Water Development Commission and Legislative Select Water Oversight Committee has developed more flexible funding criteria for dam and reservoir projects in hopes of simulating interest among water users. In order for a dam and reservoir project to be successful, water users are needed to sponsor the projects, put the stored water to use, and operate and maintain the dams.

In summary, the Wyoming Water Development Program adapted to meet the changing needs of the State of Wyoming and its citizens. However, the program continues to serve its founding principle: The effective and efficient use of water will preserve Wyoming's water for Wyoming's future.

At the same time, projects funded with appropriations from the water development accounts provide direct and indirect economic benefits throughout the state. As of January 1, 2010, there are projects with WWDC appropriations in excess of $55M under construction. In addition, there may be new construction starts in 2010 for projects with WWDC appropriations in excess of $70M.

CHAPTER 2. 2010 LEGISLATIVE PROGRAM

I. Program Development Process

The Water Development Commission utilizes the following process to generate funding recommendations for legislative consideration.

A. New Applications-The deadline for new project applications is the fifteenth of August. Upon receipt, new applications and supporting documentation are reviewed, and project sites are visited.

B. Existing Projects-Applications for continued funding of an existing project must be submitted on or before the first of October. Project reports are reviewed to determine whether the projects warrant advancement in the program.

C. Preliminary Recommendations-A joint meeting of the WWDC and Select Water Committee is held in November of each year. The Director of the Water Development Office offers funding recommendations for new and existing projects. The project sponsors are afforded the opportunity to react to the director's recommendations. The WWDC develops it preliminary funding recommendations. The Select Water Committee attends this meeting in preparation for its ultimate review and approval of the WWDC's final recommendations.

D. Public Meetings/Hearings-If a proposed Level I Reconnaissance Study or Level II Feasibility Study is of particular concern or controversy, the WWDC may solicit public input at a public meeting prior to finalizing its project recommendation. The Commission holds formal public hearings on all projects that are proposed for Level III Construction funding.

E. Coordination with the Governor-The preliminary funding recommendations and a financial report addressing impacts to the water development accounts are presented to the Governor. The Governor may provide input throughout the recommendation process.

F. Final Recommendations-The WWDC meets in December or early January to finalize its recommendations for new applications and existing projects. The WWDC considers public input received at the public meetings and hearings and recommendations from the Governor. Sponsors and interested parties are offorded the opportunity to express their views.

G. Select Water Committee-The committee is comprised of 6 senators and 6 representatives. It provides legislative oversight for the program and reviews and approves the funding recommendations developed by the WWDC. The committee's approval comes in the form of its willingness to sponsor the "Omnibus" Planning and Construction bills. The Select Water Committee meets to review and discuss the draft bills prior to the legislative session.

H. Legislative Process-The legislature must authorize the allocation of funds from the water development accounts to particular projects. This approval is solicited through the "Omnibus" Planning and Construction Bills, sponsored by the Select Water Committee.

II. 2010 Funding Recommendations

Wyoming Water Development Program
Summary-2010 Omnibus Water Bill-Planning

Level I Projects-New Development	**Location**	**WDA I**	**WDA II**	**WDA III**
Basin Planning-Environ and Recreation	Research	75,000		
Bear River Groundwater Basin Planning	Uinta/Lincoln	175,000		
Buffalo Creek Watershed Study	Hot Springs	250,000		
Buffalo Northwest Water Supply	Johnson	75,000		
Lander Master Plan-Phase II	Fremont	85,000		
Rolling Hills Master Plan	Converse	250,000		
South Circle Master Plan-Phase II	Washakie	30,000		
Statewide Water Research	Research	300,000		
Thunder Basin Watershed II	Niobrara	250,000		
Total-Section 1		1,490,000		
Level II Projects-New Development	**Location**	**WDA I**	**WDA II**	**WDA III**
Evansville Regional Connection	Natrona	100,000		
Kemmerer/Diamondville Water Supply	Lincoln	100,000		
Lucerne Water Supply	Hot Springs	150,000		
Squaw Creek Water Supply	Teton	175,000		
Thayne Storage	Lincoln	85,000		
Weather Modification Pilot	Research	2,850,000		
Wright Well	Campbell	1,100,000		
Total-Section 2		4,560,000		
Level II Projects-Storage	**Location**	**WDA I**	**WDA II**	**WDA III**
Cottonwood Lake Enlargement	Lincoln			290,000
Little Snake Supplemental Storage	Carbon			300,000
Nowood River Storage	Wash/Big Horn			250,000
Shell Valley Storage	Big Horn			250,000
Total-Section 3				1,090,000
Level I Projects-Rehabilitation	**Location**	**WDA I**	**WDA II**	**WDA III**
Keystone/Farmers Canal Master Plan	BH/Park		250,000	
Total-Section 4			250,000	
Level I Projects-Rehabilitation	**Location**	**WDA I**	**WDA II**	**WDA III**
Austin Wall Rehabilitation	Uinta		400,000	
Little Snake Canals	Carbon		100,000	
Shell Canal Tunnel	Big Horn		150,000	
Total-Section 5			650,000	
Administration	**Location**	**WDA I**	**WDA II**	**WDA III**
Office of Water Programs	UW	165,000		
Total-Section 6		165,000		
Total-All Accounts		**6,215,000**	**900,000**	**1,090,000**

Wyoming Water Development Program
Summary-2010 Omnibus Water Bill-Construction

Level III-New Projects-New Development	**Location**	**WDA I**	**WDA II**	**Terms**
Arapahoe Water Supply	Fremont	385,250		67G only
Buffalo Pipeline	Johnson	1,182,000		67/33/4/30
Burns Storage Tank	Laramie	930,000		67/33/4/30
Casper Zone IV Improvements	Natrona	663,300		67G only
Cook Road Well	Campbell	1,290,000		67/33/4/20
Ethete Water Supply	Fremont	2,000,000		50G only
Farview Water Supply	Fremont	100,000		67/33/4/20
Jackson Storage Tanks	Teton	4,000,000		67/33/4/30
Owl Creek Rural Water Supply	Hot Springs	3,182,500		67G only
South Laramie Water Supply	Albany	3,100,000		67/33/4/20
South Thermopolis Water Supply	Hot Springs	2,117,200		67G only
Wamsutter Well 2010	Sweetwater	757,100		67G only
Subtotal		19,707,350		
Level III-New Projects-Rehabilitation	**Location**	**WDA I**	**WDA II**	**Terms**
Casper Alcova Rehabilitation 2010	Natrona		477,040	67G only
Heart Mountain Rehabilitation 2010	Park		1,180,000	mat'l only
Little Snake Diversions	Carbon		990,000	67/33/4/20
Midvale Rehabilitation 2010	Fremont		263,000	mat'l only
Rawlins Atlantic Rim Reservoir	Carbon		4,000,000	67/33/4/30
Willwood Rehabilitation 2010	Park		746,000	mat'l only
Subtotal			7,656,040	
Amendments to Existing Level III Projects	**Location**	**WDA I**	**WDA II**	**Terms**
Deer Creek Project	Converse	-8,250,000		Reduction
Little Snake River Valley Dam and Reservoir	Carbon			Debt service
Little Snake River Small Dams and Res's	Carbon			New site
Small Water Development Projects	Statewide	200,000	-200,000	Extend date
Byron Raw Water	Big Horn			Abandon
Wind River Irrigation	Fremont			Extend date
Pine Haven Transmission 2006	Crook			Extend date
Midvale ID Conservation/Automation	Fremont			Extend date
Pinedale Pipelines	Sublette	3,570,000		67/33/4/30
Rawlins Atlantic Rim Pipeline	Carbon	2,550,000		67/33/4/30
Riverton Water Supply	Fremont	2,125,200		67/10/4/20
Star Valley Ranch	Lincoln	2,375,000		67/33/4/30
Big Horn Canal Rehab 2009	Washakie		235,000	67/33/4/30
Subtotal		2,570,200	35,000	
Total		**22,277,550**	**7,691,040**	

III. Financial Status Reports

The following three (3) tables depict the calculations used to estimate the available funds in each account for the 2010 and 2011 Legislative Sessions.

PRELIMINARY
12/30/2009

Fiscal Projections
Water Development Account No. 1
October 2009 CREG Report

Total Revenues			
	General Fund	117,600,000	
	Governor's Diversion 07/01/09	-3,000,000	
	Budget Reserve	70,000,000	
	Taxes	517,244,098	
	Interest	188,796,838	
	UST Repayment	2,500,000	
	Coal Bonus	4,840,305	
	Loans/Interest	75,600,057	
	Other	1,207,475	
Total Revenues			977,788,773
Total Expenditures	Transfer to Account III	54,070,000	
	Program Expenditures	804,184,978	
Total Expenditures			858,254,978
Cash Balance (6/30/09)			119,533,795
Outstanding Commitments (7/1/09)			
	Active Appropriations	240,160,970	
	Paid	106,811,264	
Total Commitments (7/1/09)			133,349,706
Uncommitted Balance (7/1/09)			(13,815,911)
FY10 – Anticipated Revenues			
	Taxes	19,300,000	
	Interest	4,000,000	
	Other	4,000,000	
Total – FY10 Revenues			27,300,000
FY11 – Anticipated Revenues			
	Taxes	19,300,000	
	Interest	4,000,000	
	Other	4,000,000	
Total - FY11 Revenues			27,300,000
FY12 – Anticipated Revenues			
	Taxes	19,300,000	
	Interest	4,000,000	
	Other	4,000,000	
Total – FY12 Revenues			27,300,000
Subtotal Revenues			81,900,000
	BALANCE		68,084,089

PRELIMINARY
12/30/2009

Fiscal Projections
Water Development Account No. 2
October 2009 CREG Report

Total Revenues			
	Taxes	127,623,645	
	Interest	40,771,912	
	Federal Mineral Royalty	5,000,000	
	Budget Reserve	12,000,000	
	Loans/Interest	33,836,129	
	Other	185,032	
Total Revenues			219,416,718
Total Expenditures			175,150,894
Cash Balance (6/30/09)			44,265,824
Outstanding Commitments (7/1/09)	Active Appropriations	63,501,952	
	Paid	18,458,399	
Total Commitments (7/1/09)			45,043,553
Uncommitted Balance (7/1/09)			(777,729)
FY10 - Anticipated Revenues	Taxes	3,300,000	
	Interest	1,100,000	
	Other	1,700,000	
Total – FY10 Revenues			6,100,000
FY11 - Anticipated Revenues	Taxes	3,300,000	
	Interest	1,100,000	
	Other	1,700,000	
Total - FY11 Revenues			6,100,000
FY12 - Anticipated Revenues	Taxes	3,300,000	
	Interest	1,100,000	
	Other	1,700,000	
Total - FY12 Revenues			6,100,000
Subtotal Revenues			18,300,000
	BALANCE		17,522,271

PRELIMINARY
12/30/2009

Fiscal Projections
Water Development Account No. 3
October 2009 CREG Report

Total Revenues			
	Budget Reserve	82,543,656	
	Governor's Diversion 07/01/2009	-22,250,000	
	Transfer from Water Account I	54,070,000	
	Taxes	3,100,577	
	Interest	16,691,992	
Total Revenues			134,156,225
Total Expenditures			2,781,322
Cash Balance (6/30/09)			131,374,903
Outstanding Commitments (7/1/09)			
	Active Appropriations	12,305,000	
	Paid	1,121,290	
Total Commitments (7/1/09)			11,183,710
Uncommitted Balance (7/1/09)			120,191,193
FY10 - Anticipated Revenues			
	Taxes	800,000	
	Interest	2,200,000	
Total – FY10 Revenues			3,000,000
FY11 - Anticipated Revenues			
	Taxes	800,000	
	Interest	2,200,000	
Total - FY11 Revenues			3,000,000
FY12 - Anticipated Revenues			
	Taxes	800,000	
	Interest	2,200,000	
Total - FY12 Revenues			3,000,000
Subtotal Revenues			9,000,000
	BALANCE		129,191,193

The Wyoming Water Development Commission bases its funding recommendations on the anticipated income into each water development account for the upcoming Budget and General Legislative Sessions with the knowledge that requests for funding during that period will likely exceed available funds. Therefore, during Budget Sessions, the WWDC works to ensure that there will be funding available for projects during the General Sessions. The following table depicts the funding that should be available to each account for the 2010 and 2011 Sessions, predicts anticipated demands that will be placed on those accounts during the 2010 Budget Session, and estimates the funding that will be available for the 2011 General Session. Please refer to page 8 of this chapter which displays potential projects for the 2011 General Session.

Water Development Account No. 1		
Available 2010/2011		68,084,089
Non-Project Requests		
Agency Budget	8,104,561	
Big Horn Adjudication-AG	501,970	
Colorado Endangered Fish-SEO	88,690	
Natural Resources-TMDL's-DOA	675,000	
DWSRF-FY11-12-DEQ	1,640,000	
Deduct-Non-Project Requests		11,010,221
Available to WDP-2010/2011		57,073,868
Omnibus Water Bill-Planning	6,215,000	
Omnibus Water Bill-Construction	22,277,550	
Deduct-2010 Recommendations		28,492,550
Available 2011		**28,581,318**
Water Development Account No. 2		
Available 2010/2011		17,522,271
Omnibus Water Bill-Planning	900,000	
Omnibus Water Bill-Construction	7,691,040	
Deduct-2010 Recommendations		8,591,040
Available 2011		**8,931,231**
Water Development Account No. 3		
Available 2010/2011		129,191,193
Omnibus Water Planning		1,090,000
Available 2011		**128,101,193**

IV. 2011 Potential Projects

The following table attempts to predict those projects that may be ready for funding during the 2011 General Session.

New Development Program		
Basin Planning		250,000
Green River DSS		300,000
Weather Modification		1,850,000
Big Horn Regional Well-Connection	Big Horn	4,500,000
Cheyenne Belvoir-Well field	Laramie	10,000,000
Cody-Tank and pipeline	Park	3,500,000
Evansville-Regional connection	Natrona	2,400,000
Jamestown/Rio Vista-Pipeline	Sweetwater	2,500,000
GR/RS/SC-Re-regulating reservoir	Sweetwater	5,000,000
GR/RS/SC-Reliance Water Supply	Sweetwater	1,000,000
Kemmerer/Diamondville-Water System	Lincoln	2,500,000
LaBarge-Diversion	Lincoln	300,000
Lance Creek-Storage tank	Niobrara	1,200,000
Lovell-Transmission pipelines	Big Horn	500,000
Pine Haven-Storage tank	Crook	2,500,000
Pioneer WD-Transmission pipelines	Natrona	3,000,000
Poison Spider WD-Transmission pipelines	Natrona	2,000,000
Sweetwater-Rural water supply	Weston	1,500,000
Tensleep/South Circle-Tank and pipeline	Washakie	700,000
Thayne-Storage Tank	Lincoln	750,000
Wheatland-Well	Platte	700,000
Wright-Well connection	Campbell	3,500,000
Yoder-Well connection	Goshen	150,000
Total		50,350,000
Rehabilitation Program		
Casper Alcova ID	Natrona	500,000
Douglas-Box Elder Spring pipeline	Converse	8,000,000
Cody Canal ID	Park	500,000
Goshen ID	Goshen	1,000,000
Greybull Valley-Diversion structure	Park/Big Horn	3,000,000
Kirby Irrigation District-Laterals	Hot Springs	1,000,000
Shell Valley WID-Tunnel	Big Horn	1,500,000
Shoshone ID	Park/Big Horn	500,000
Wheatland ID	Platte	1,000,000
Willwood ID	Park	500,000
Total		17,500,000
Dam and Reservoir Projects-Under Consideration		
Big Sandy Enlargement	Sweetwater	
Clear Creek Reservoirs	Johnson	
Cottonwood/Grass Creek	Hot Springs	
Cottonwood Lake Enlargement	Lincoln	
Little Snake Supplemental	Carbon	
Middle Piney	Sublette	
Nowood Reservoirs	Washakie	
Shell Valley Storage	Big Horn	
Sublette Creek Storage	Lincoln	

CHAPTER 3. ACTIVE PROJECTS

01. PROJECT: Albin Pipelines and Well Rehabilitation

LEVEL: III
SPONSOR: Town of Albin
LOCATION: Laramie County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	7	2002	II	$160,000	2004
Level III	118	2004	II	$215,000*	2011
Level III	75	2008	II	$20,100**	2011

* 50% grant, ** Sponsor's Inflation Fund

PROJECT INFORMATION:

In 2001, the Town of Albin applied for funding assistance. Albin wanted to pursue detailed cost analyses of rehabilitation of their municipal water system. The Town has access to four wells, all of which have individual problems. All of these wells are piped into the distribution system rather than to the storage tank. This configuration causes major problems with treatment and system pressures. The transmission pipeline also has problems with pressure, leakage, and dead end lines.

The Level II Test Well and Master Plan Study was completed in 2003 and recommended several schedules for upgrades, additions, and improvements to the Town of Albin water supply system. The Town requested Level III construction funding assistance for the first priority phase, including rehabilitation of wells, replacement of a 6" transmission line from the Station Well to the 100,000 gallon elevated storage tank, and a new cross-connecting segment of 8" transmission line that will feed from the Albin No. 4 Well.

In 2004, a Level III Rehabilitation project, named Albin Pipelines and Well Rehabilitation, was approved and a $215,000 (50%) grant was appropriated for the design, permit procurement, project land procurement, construction engineering, and construction of the project.

Due to unforeseen issues with the landowner at the well site, the Union Pacific Railroad, the design and the construction of this project was delayed until recently. Therefore, the Town of Albin requested an extension of time to complete the project. In addition, the funding available was not sufficient to construct the project due to increases of materials, fuel and labor costs in the intervening time.

In 2008, the Town of Albin received additional WWDC funding for $20,100 and the project reversion date was extended to 2011. The project is currently being designed. Construction will begin in 2010.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

02. **PROJECT:** **Alpine Water Supply**
LEVEL: III
SPONSOR: Town of Alpine
LOCATION: Lincoln County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	86	2001	II	$ 40,000	2002
Level II	75	2005	I	$ 75,000	2006
Level II	99	2006	I	$185,000	2008
Level III	121	2007	I	$688,090*	2012

* 67% grant

PROJECT INFORMATION:
The Master Plan study prepared for the Town of Alpine identified several needs that the Town considers to be critical to their ability to supply water to Alpine's residents.

The proposed improvements represent a second phase of upgrades to the water supply system and focus on the transmission of water from the well field to the major points of use. Upgrades include installation of connection piping to the proposed well #3, a 10-inch PVC transmission line along the Greys River Road to replace an 8-inch line that ruptured during the summer of 2005, and a 14-inch PVC line to replace an inadequate 8-inch line that feeds the main storage tank from the well field. An appropriation of $688,090 (67% grant) was approved by the 2007 Legislature. Engineering design and procurement of matching funds had not commenced as of December, 2009.

This project has been difficult for the Town to complete as it is struggling financially with large indebtedness from a recently completed wastewater treatment plant project. The public works staff has provided strong support for the completion of the water transmission line project due to many line failures and the poor quality of the piping material that was used for the main pipeline. Therefore, in exchange for the ability to provide emergency water to North Star Utility (located in North Alpine) at some future date, the Utility has agreed to pay for a large portion of this project. This arrangement came about in the summer of 2009 as North Star Utility looked at its options for an additional supply. With issuance of the U.S. Forest Service Special Use Permit in September 2009 for the Alpine Well Rehabilitation Project, it is anticipated that the transmission line project will be able to proceed in 2010. However, the town needs to acquire financing for $115,000 to completely match the WWDC grant of $688,090 before the project can proceed.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

03. **PROJECT:** **Alpine Wells Rehabilitation**
LEVEL: III
SPONSOR: Town of Alpine
LOCATION: Lincoln County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	86	2001	II	$40,000	2002
Level II	75	2005	I	$75,000	2006
Level III	105	2006	II	$359,790*	2010

* 67% grant

PROJECT INFORMATION:

The town of Alpine is faced with a large influx of people seeking to escape the high housing costs of Jackson while continuing to work there. As such, Alpine has had to deal with numerous requests for water service. The WWDC conducted a study in Alpine to determine the best way to serve the increasing population. Alpine's wells were tested and deemed capable of supplying 50% more water. To accomplish this, Alpine requested and received a a grant in 2006, which will be coupled with a loan from the Drinking Water State Revolving Loan Fund, to install higher capacity pumps with variable frequency drives, upgrade the existing wells, as well as install an emergency power generator for the pumps.

New rules were adopted by the U. S. Forest Service in 2009 which required a second extensive technical review of the project. The original review was completed in 2008. In addition, the U.S. Forest Service required that all proposed aspects of the project, including a future transmission line to an existing tank, be included in the second application, which caused delays in the project. The U.S. Forest Service Special Use Permit was authorized in September 2009. The project should be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

04. PROJECT: Arapahoe Water Supply

LEVEL: II
SPONSOR: Northern Arapaho Tribal Business Council
LOCATION: Fremont County (Wind River Indian Reservation)
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	85	2007	I	$125,000	2008
Level II	66	2009	I	$500,000	2010

PROJECT INFORMATION:

The community of Arapahoe is located in the southeast corner of the Wind River Indian Reservation, about 8 miles south of the City of Riverton (junctions of State HWY's 789, 137, and 138) at the confluence of the Popo Agie River with the Little Wind River. The water supply system is operated by the Northern Arapaho Utilities Organization.

The current water supply utility at Arapahoe has deficiencies in source supply, storage, transmission/distribution circulation, and fire suppression capabilities. The system is also partitioned, i.e, including at least three adjacent, but separate systems.

The near-term critical need was to site and develop a new well. As part of the well siting, it was necessary to conduct a master plan to determine where an additional supply would best meet the needs of the entire system. The master plan includes a full operation model, a

regionalization scheme for the system, a system management operation plan, and an appropriate fiscal/financial plan for accomplishing goals set forth.

A production-size well was completed in December, 2009. The well has a depth of 1,041 feet and was pump tested at 300 gallons per minute. The proposed Level III project will serve to connect the well into the Arapahoe system in 2010. The remainder of the master plan will also be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the connection of the Level II well be advanced in the New Development Program to Level III status with an appropriation of $385,250. The recommended funding package includes a 67% grant with the sponsor being responsible for the remaining 33% of the project costs. WWDC also recommends authorization for the sale of the Level II well to the sponsor at a purchase value equal to 33% of the drilling costs.

05. PROJECT: Austin and Wall Canal and Reservoir Rehabilitation

LEVEL: I
SPONSOR: Unita County Conservation District
Austin and Wall Canal Companies
LOCATION: Unita County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	II	$110,000	2010

PROJECT INFORMATION:
The Unita County Conservation District, Austin Reservoir and Canal Company, and the Wall Development Company requested a Level I study of the Austin Reservoir and canal system and the Wall Canal System. The Level I study was completed in 2009. The study verified that the two canal systems currently are experiencing significant water losses. The Wall Dam, which stores 870 acre-feet, is also leaking and the outlet structure is in need of replacement.

The sponsors are now requesting a Level II study to continue the study on the rehabilitation of the Austin and Wall canal systems and repair of the Wall storage reservoir. The Level II Study will include geotechnical analyses and a drilling program on the dam and will refine recommendations related to improving both the Wall and Austin canal systems.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced in the Rehabilitation Program as a Level II project with an appropriation of $400,000.

06. PROJECT: Basin Planning – Environmental & Recreational Uses

LEVEL: I
SPONSOR: WWDC
LOCATION: State Wide
PROGRAM: New Development

PROJECT DESCRIPTION:

The 1999 Legislature initiated the Statewide Water Planning Process with its appropriations to fund plans for the Bear and Green River Basin Plans. Those plans were completed in January 2001. The 2000 Legislature appropriated funding for the Powder/Tongue River Basins and the Northeast Wyoming River Basins Plans. Those plans were completed in February 2002. The next basin plans undertaken were the Wind/Bighorn and the Snake/Salt River Basins and they were completed in 2003. The Platte River Basin Plan was funded in 2003 and completed in May of 2006. The State Framework Water Plan, which updates the 1973 framework plan and consolidates information from the seven basin plans, was initiated in 2005 and was completed in 2007. The Green River Plan update, the Wind/Bighorn River Plan update and the Platte River Plan update are currently underway.

This study of environmental and recreational water uses will refine the state water planning process. Environmental and recreational water uses have been considered in all of the river basin plans but data used to define these uses have been hard to find and difficult to interpret. The study will assist WWDO in developing methodologies to: 1) define environmental and recreational water demands and benefits and 2) incorporate this information in river basin planning in a consistent and appropriate manner.

It is important to evaluate all water uses and demands in river basin planning to allow accurate estimates of water availability and where it is available. The study will be designed to provide information on data sources for environmental and recreational uses and how to evaluate these uses and demands in the context of river basin planning. Accurately establishing environmental and recreational water demands will also benefit other water development projects.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends the project be incorporated into the New Development Program at Level I status with an appropriation of $75,000.

07. PROJECT: Basin Storage Tank

LEVEL: III
SPONSOR: Town of Basin
LOCATION: Big Horn County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	38	2009	I	$1,634,000*	2014

* 67% grant, 33% loan

PROJECT INFORMATION:

The town of Basin has two existing potable water storage tanks. One tank has a storage capacity of 500,000 gallons and the other has a capacity of 250,000 gallons. They are both concrete tanks. The smaller tank has a conical metal roof and the larger tank has a concrete roof supported by columns. The town has observed evidence of increased leakage around the tanks for several years. Upon inspection by a professional underwater repair company, it was determined that both of these tanks have deteriorated to the point that repairing them is not feasible. The town, through this Level III project, will replace the existing tanks with a new 1,000,000 gallon tank at the same general location.

Plans for the tank have been prepared and the project is out to bid. Construction will be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

08. PROJECT: Bear River Basin Groundwater Analysis

LEVEL: I
SPONSOR: WWDC
LOCATION: Bear River Basin
PROGRAM: New Development

PROJECT DESCRIPTION:
The 1999 Legislature initiated the Statewide Water Planning Process with the Bear and Green River Basin Plans. Those plans were completed in January 2001. The 2000 Legislature appropriated funding for the Powder/Tongue River Basins and the Northeast Wyoming River Basins Plans. Those plans were completed in February 2002. The next basin plans undertaken were the Wind/Bighorn and the Snake/Salt River Basins and they were completed in 2003. The Platte River Basin Plan was funded in 2003 and completed in May of 2006. The State Framework Water Plan, which updates the 1973 framework plan and consolidates information from the seven basin plans, was initiated in 2005 and was completed in 2007. River Basin Plan updates were initiated in 2007 to continue the planning process. The Green River Plan update, the Wind/Bighorn River Plan update and the Platte River Plan update are currently underway.

Groundwater is an important resource in the Bear River Basin. The Bear River Basin Plan was completed in 2001 and the Plan is currently being reviewed and updated by the WWDO River Basin Planning Team. The groundwater analysis is needed to define the groundwater resources in the basin and their potential for development. The study will identify the aquifers present, extent of the aquifers, recharge areas, water quantity and quality, and estimate safe yields. This will be an important tool considering the key role groundwater could play in future development within the basin.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the New Development Program at Level I status with an appropriation of $175,000.

09. PROJECT: Bear River/Evanston Regional Pipeline

LEVEL: III
SPONSOR: Bear River Regional Joint Powers Board
LOCATION: Uinta County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	105	2006	I	$3,699,070*	2010

* 67% grant

PROJECT INFORMATION:
The Town of Bear River, the City of Evanston, water districts and private users formed a Joint Powers Board and applied for funding for a regional water system. Though Evanston

itself is not a member of the JPB, the city has agreed and contracted to allow the sponsor to utilize storage space in Sulphur Creek Reservoir, agreed to treat the raw water in the city's treatment plant, and transmit the water through the city system to the JPB delivery line.

The sponsor secured all matching funds in 2008 while completing design and the acquisition of easements and rights-of-way. Favorable bids on the 25-mile pipeline, storage tank and booster pump station project were opened in September 2008. Project construction started in November 2008. The project was substantially completed in December 2009. Final project close out is scheduled for early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

10. PROJECT: Bedford Water Tank

LEVEL: III
SPONSOR: Bedford Water & Sewer District
LOCATION: Lincoln County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	15	1996	I	$250,000	1998
Level III	118	2004	I	$500,000*	2012
Level III	121	2007	I	$335,000**	2012

* 50% grant, **67% grant

PROJECT INFORMATION:
The Bedford system was originally designed and constructed in 1990. The main elements were the development of two springs, drilling a groundwater well and transmission and distribution piping. At that time, a storage tank was included as a future element of the system. The system has seen increases in demand. Recent problems with one of the springs have resulted in taking it out of service. The increased storage capacity is needed to meet peak demands within the system and allow the well and spring to operate at a regulated level.

The district was attempting to secure matching funds which will allow them to proceed with the project. Meanwhile, inflation required that supplemental funding be secured. The district sought and received and an additional WWDC appropriation of $335,000 from the 2007 Legislature to supplement the appropriation of $500,000 that was received in 2004.

In 2008, the district completed environmental work in Strawberry Canyon allowing the District to apply for and obtain a permit from the Forest Service and to obtain an ARRA stimulus grant from the Drinking Water State Revolving Fund Program. Well upgrades were completed early in 2009. A contract for construction of the storage tank was executed in December 2009. The project will be completed in early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required at this time.

11. PROJECT: Big Horn Canal Lining

LEVEL: III
SPONSOR: Big Horn Canal Irrigation District
LOCATION: Big Horn and Washakie Counties
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	II	$150,000	2006
Level III	75	2008	II	$500,000*	2013

* 67% grant, 33% loan

PROJECT INFORMATION:
The Big Horn Canal District's main canal is over 60 miles long and extends from south of Worland to Greybull. The Level II study was completed in April 2007. The entire conveyance system and infrastructure was evaluated. Several needs were identified and ranked by priority of need and cost. The District wanted to determine the cost and feasibility of installing measuring devices at farm turnouts.

An area of primary concern to the District is a narrow area between the Big Horn River and the Big Horn canal. This area experienced a structural failure several years ago. The existing concrete liner was severely degraded. Over 23,000 acres are irrigated downstream of this segment and a canal failure would be catastrophic to the irrigators.

The Big Horn Canal Irrigation District received Level III funding for the replacement of the existing concrete canal liner in 2008. Design was completed in the winter of 2008 and the construction of the liner was completed spring 2009. The final payment for the project is on hold due to a legal issue between the contractors.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

12. PROJECT: Big Horn Canal Rehabilitation 2009

LEVEL: III
SPONSOR: Big Horn Canal Irrigation District
LOCATION: Big Horn and Washakie Counties
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	II	$150,000	2006
Level III	38	2009	II	$945,000*	2014

* 67% grant, 33% loan

PROJECT INFORMATION:
The Big Horn Canal District's main canal is over 60 miles long and extends from south of Worland to Greybull. The Level II study was completed in April 2007. The study indicated that the major headgate on the Big Horn River was in poor condition. The district was having problems regulating the flow into the canal due to the gates not functioning correctly.

The Big Horn Canal Irrigation District sought and received funding to rehabilitate the Big Horn Canal headgate. During the initial design phase, it was determined that additional soil foundation work will be required for the structures. The district has estimated the additional work will cost $235,000.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends increasing the Level III appropriation from $945,000 to $1,180,000, which is an increase of $235,000.00. The recommended financing plan remains a 67% grant and 33% loan with an interest rate of 4% and a term of 30 years.

13. PROJECT: Big Horn Regional Ground Water

LEVEL: II
SPONSOR: Big Horn Regional Joint Powers Board
LOCATION: Big Horn, Washakie, Hot Springs Counties
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	I	$1,500,000	2010
Level II	66	2009	I	$850,000	2010

See also Big Horn Regional Joint Powers Board Pipeline

PROJECT DESCRIPTION:
The Big Horn Regional Joint Powers Board [BHRJPB] depends on a ground water supply provided dominantly from the City of Worland well field. Since formulation of the regional system, it has been the desire of Board representatives to seek a redundant source of supply that could be relied upon as a significant supplemental, emergency, or back-up source. On behalf of BHRJPB, the WWDC has continued investigations of groundwater potential for public drinking water source supply in the eastern and southern Big Horn Basin. Sites were investigated that could potentially yield abundant (>500gpm), good quality (<500 mg/l TDS) water. An extensive review of groundwater data within the Big Horn Basin revealed that the most likely aquifer to yield abundant, good quality water is the Paleozoic-age Madison-Big Horn aquifer system.

A test well was completed in late 2001 at the Wild Horse Anticline site, about 13 miles ESE of Thermopolis, as a Madison-Big Horn completion. Unfortunately, production yield at this site did not meet the requirements of the project.

A second test well was drilled and completed at the Buffalo Creek Monocline site, 4½ miles SE of Thermopolis, in early 2004. In 2006, the pump testing phase was completed, which included monitoring of nearby wells, springs, and the thermal springs at Hot Springs State Park. The long-term test confirmed a sustained yield at 600+ gpm without interference to other local /regional ground water resources.

In 2007, a well siting effort continued in the northern tier of the study area, concentrating on basin margin/mountain flank potential from the Tensleep Fault northwest to the Sheep Mountain anticline. A test well was drilled at the Cherry Anticline, 6 miles east of Greybull, in May-June of 2008, as an effort to develop a well close to BHRJPB infrastructure, thereby reducing transmission costs. Again, although water quality and head

pressures were favorable, secondary permeability features (fractures, karst) were not encountered in drilling and therefore yield did not meet minimum expectations.

In late 2009, test drilling was completed at a second site on the Cherry anticline feature east of Greybull. Initial indications are that this well will be a viable water supply for the project.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required

14. PROJECT: Big Horn Regional Joint Powers Board Pipeline

LEVEL: III
SPONSOR: Big Horn Regional Joint Powers Board
LOCATION: Big Horn, Washakie, Hot Springs Counties
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	36	2000	I	$160,000	2002
Level II	86	2001	I	$670,000	2002
Level III	88	2001	I	$5,500,000*	2012
Level II	7	2002	I	$675,000	2004
Level III	118	2004	I	$13,628,500*	2012
Level III	121	2007	I	$7,222,600*	2012

* 67% grant

PROJECT INFORMATION:
In December, 1996, the City of Worland's transmission Pipeline ruptured in a remote location, leaving Worland without potable water. This situation lasted for about 10 days and revealed the vulnerability of other potable water systems with remote water sources. Therefore, in 1999 the Big Horn Regional Steering Committee was organized to discuss ways to minimize the impact of future pipeline breaks. This committee evolved into the Big Horn Regional Joint Powers Board (BHRJPB) with the following objectives:

- Route a second water transmission pipeline from the City of Worland's well field to Worland, with a capacity to provide emergency water supply equal to the average daily demand of the largest entity plus primary demands for a few other entities;
- Connect the Town of Greybull's system to the Regional's system with a Greybull River crossing to provide supplemental water supply to Greybull;
- Explore means to support and enhance water supply to public water supply systems in rural Big Horn, Washakie and Hot Springs County; and,
- Develop a southern-basin water supply well field to provide redundancy of supply for the entire system.

The total budget to complete the northern portion of the Big Horn Regional Water Supply Project is $39,300,000, of which $26,351,100 is being provided as a 67% grant from the Water Development Program. All elements that comprise the northern system have all been completed.

In 2007, the BHRJPB requested Level III funding to extend the northern system to the town of Kirby and the Lucerne Water and Sewer District (Element 10). However, evaluation of

existing funding and present and forecasted expenditures revealed that sufficient funding was currently in place to fund the proposed project. Design of the Kirby/Lucerne portion of the project is proceeding on schedule.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

15. PROJECT: Big Sandy Enlargement

LEVEL: I
SPONSOR: State of Wyoming
LOCATION: Sublette County
PROGRAM: Dams and Reservoirs

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	III	$100,000	2010

PROJECT INFORMATION:
The Eden Farson Irrigation and Drainage District (District) has requested WWDC assistance to determine the feasibility of enlarging Big Sandy Reservoir to provide additional supplemental water to District members. The United States Department of the Interior, Bureau of Reclamation (Reclamation) owns the reservoir and has entered into a contract with the District to operate the facility.

A technical service contract with Reclamation has been negotiated to conduct a bathometric survey and hydrologic analysis during the summer of 2010. Whether the project will be advanced to a Level II study depends upon results of the analyses.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

16. PROJECT: Buffalo Creek Watershed Study

LEVEL: New Application
SPONSOR: Hot Springs Conservation District
LOCATION: Hot Springs County
PROGRAM: New Development

PROJECT INFORMATION:
The Buffalo Creek watershed, located southeast of Thermopolis, is approximately 101,037 acres with land ownership divided among federal (25%), private (70%), and state (5%). The watershed includes the main stem of Buffalo Creek and its tributaries including Hazen Draw and Ditch, Jones, Antelope, Grass and Warm Springs Creeks.

Hot Springs Conservation District has requested a watershed study to evaluate current watershed function, current condition of wetlands and riparian areas within the drainage, and to develop a geomorphic classification.

This information will provide baseline information from which the District can pursue implementation of management practices that address the natural resource issues within the drainage. The development of irrigation and upland livestock and wildlife water management and rehabilitation plans is also of interest.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated in the New Development Program at Level I status with an appropriation of $250,000.

17. PROJECT: Buffalo Northwest Water Supply

LEVEL: New Application
SPONSOR: Johnson County and Town of Buffalo
LOCATION: Johnson County
PROGRAM: New Development

PROJECT DESCRIPTION:
Currently, the Johnson County Airport and surrounding areas are served by individual wells. The water in these wells does not meet drinking water standards so potable water is hauled from the Town of Buffalo. Over the past three years, Johnson County has sought to develop the airport's economic potential. As a result, there has been significant growth and construction at the airport. There is no potable water available to the system. There is no fire protection due to the lack of adequate water. This lack of water also limits the potential for growth and the airport's ability to serve the public. In addition, the area north of the City of Buffalo between French Creek Road and the Interstate 90 corridor is rapidly being developed for residential use.

The potential for both residential and commercial business development within the areas described above is considerable. On September 15, 2009, the City Council of Buffalo voted to expand the proposed use of their water to create a multi-purpose project which includes the transmission and the distribution of water on the north end of Buffalo outside the city limits and adjacent to the Interstate 90 corridor.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the New Development Program at Level I status with an appropriation of $75,000.

18. PROJECT: Buffalo Pipeline

LEVEL: I
SPONSOR: Town of Buffalo
LOCATION: Johnson County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	II	$ 600,000	2008

PROJECT INFORMATION:
The City of Buffalo is seeking funding to construct an additional transmission line between the existing water treatment plant and the municipal limits of the town. This project was identified in the "Buffalo, Sheridan Area Water Supply System, and Lake DeSmet Regional Master Plan, Level I" which was completed in 2008. The existing transmission has a capacity of slightly less than the 4 MGD peak flows. There is an ability to treat up to 6 MGD but the existing transmission doesn't have the capacity to transmit the water to town. The additional transmission line will allow for an immediate ability to deliver 6 MGD to town, provide for additional capacity to accommodate growth in the future, and provide redundancy for the water supply. In 2009, the city prepared a Level II cost estimate for the project.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced to Level III status in the New Development Program with an appropriation of $1,182,000. The recommended financing plan includes a 67% grant and 33% loan with an interest rate of 4% and a term of 30 years.

19. PROJECT: Burns Storage Tank

LEVEL: I
SPONSOR: Town of Burns
LOCATION: Laramie County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	I	$85,000	2010

PROJECT DESCRIPTION:
The Town of Burns water system serves the estimated 312 people living in the town, the new elementary school, and the adjacent area. The town is supplied with groundwater from four wells completed into the Miocene Arikaree Formation. The town currently uses one elevated 200,000 gallon welded steel storage tank that is 15 years old (~1994). The Wyoming Department of Economic Analysis Division (EAD) estimates that there will be 15% growth for Burns over the next 30 years. The primary factor which is affecting the town is the growth occurring at the elementary, junior high, and senior high schools. The enrollment at the schools in 2008 was 420 students, which is 25% more than the population of the Town and the enrollment has increased by 20% in the past 5 years. It is anticipated that school enrollment will continue to increase at an accelerated rate since the enrollment area extends to the eastern edge of the City of Cheyenne. Although the growth of the school population does not greatly affect water demand, it does significantly affect storage requirements associated with peak day usage and fire-flow storage demand.

The currently ongoing master plan recommends that the town needs additional water storage to meet existing and projected demands for peak day and fire-flow requirements. The funding request is for construction of an additional 200,000 gallon elevated storage tank and transmission pipeline to connect to the tank to the existing distribution system.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the storage tank project be advanced in the New Development Program to Level III status with an appropriation of $930,000. The recommended financing plan includes a 67% grant and 33% loan with an interest rate of 4% and a term of 30 years.

20. PROJECT: Burns Water Supply

LEVEL: I
SPONSOR: Town of Burns
LOCATION: Laramie County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2008	I	$85,000	2010

PROJECT DESCRIPTION:
This Level I study is being conducted for the Town of Burns, which is located approximately 25 miles east of Cheyenne in Laramie County. The Town depends solely on groundwater supplied from shallow wells completed into the Arikaree Formation. The town is currently dependent primarily on one reliable well which yields approximately 200 gpm. Their second well has high nitrate levels. The third well produces 36 gpm. The fourth well produces 25 gpm. The Town's only storage tower periodically has to be taken out of service for repairs and maintenance leaving the Town without storage.

The Town is in the process of installing meters on the system; and has qualified for County Capital Facilities Sales Tax funding to help with their water system. This master plan will determine the logistics of upgrading their well supply system. Due to the immediate need for additional storage, the WWDC has recommended that this component of the project be constructed this year. Other improvements to the water system will likely be identified upon completion of the master plan in 2010.

RECOMMENDED LEGISLATIVE ACTION:
See Burns Storage Tank.

21. PROJECT: Byron Raw Water Supply

LEVEL: III
SPONSOR: Town of Byron
LOCATION: Big Horn County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	7	2002	II	$40,000	2004
Level III	75	2008	II	$1,561,000*	2013

* $1,126,000, 100% grant for materials and a $435,000 loan for engineering (4%, 30 years), this appropriation replaces earlier Level III appropriations.

PROJECT INFORMATION:
The Town of Byron has an open lined ditch system to convey water for residential irrigation. The system is old and expensive to maintain. It is also prone to backwater spills caused by debris in culverts. The system is a side-of-the-road hazard for vehicles and an attractive nuisance for children. Subsequent to the Level II study completed in 2002, the sponsor received construction appropriations for Phases I and II of the project in 2003 and 2004, respectively. In 2007, the sponsor requested that the project be abandoned. After discussions with the WWDC, the sponsor decided to re-design the proposed pressure pipe irrigation system as a gravity pipe system and to request materials only funding from WWDC. In 2008, the legislature authorized the change in funding to 100% grant to purchase invoiced materials and 100% loan for engineering services. The town was to be responsible for all other project costs and for installation.

In a letter dated August 26, 2009, Byron's Mayor advised that the bond election needed to pursue the project had failed and the town wanted to abandon the project. The WWDC recommended that the sponsor should repay the grant amount, plus interest, in compliance with statutory (W.S. 99-3-104 (ix)) provisions regarding abandonment without good cause. The town is also responsible for the loan funds expended on the project. Subsequently, the Select Water Committee amended the WWDC recommendation by waiving the requirement

to pay interest on grant funds if the town would make a lump sum payment for the WWDC funds expended on the project ($170,214). This waiver was made, in part, in recognition that the town had spent approximately $97,000 of its own funds on the project.

RECOMMENDED LEGISLATIVE ACTION:
It is recommended that the Town of Byron be required to reimburse the WWDC for the total grant and loan funds ($170,214) expended with a lump sum payment to be made prior to July 1, 2010. In addition, it is recommended that the reversion date be accelerated from July 1, 2013 to July 1, 2010 to allow for the unspent balance ($1,390,786) to revert to water development account no. II. These actions will result in the abandonment of the project as requested by the sponsor.

22. PROJECT: Canyon Water Supply

LEVEL: III
SPONSOR: Canyon Improvement & Service District
LOCATION: Weston County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	125	2003	II	$75,000	2004
Level II	34	2004	II	$600,000	2006
Level III	147	2005	I	$740,000*	2012
Level III	105	2006	I	$283,090*	2012
Level III	121	2007	I	$434,510*	2012

*67% grant

PROJECT DESCRIPTION:
The sponsor is a rural district located less than 5 miles east and north of Newcastle. A regional feasibility, cost analysis, and well study for Canyon I & S District was completed in 2003. The study considered (a) connecting Canyon users to existing supply and transmission infrastructure in and adjacent to Newcastle, or (b) a stand-alone supply /storage/transmission/distribution system. It was suggested that the stand-alone system could possibly tie into and enhance the regional system. Therefore, the stand-alone option was selected through the construction of a new well and supply system. Through the Level II study, a new well was located, constructed and tested.

In 2005, the Canyon Improvement and Service District concluded that it could not afford the project after (a) design revisions to reduce costs, and (b) design revisions to meet requirements of federal funding agencies. The sponsor approached WWDC and asked for an increase in the project's total budget and a more favorable financing plan. In 2006, the funding available was not sufficient to construct the project due to increases of materials, fuel and labor costs over the past year. Hence, the sponsor received additional grant funds from WWDC in 2007.

In 2009, favorable construction bids were obtained and construction is underway. The project is anticipated to be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

23. **PROJECT:** **Casper Alcova Rehabilitation 2009**
LEVEL: III
SPONSOR: Casper Alcova Irrigation District
LOCATION: Natrona County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	99	2006	II	$200,000	2008
Level III	38	2009	II	$184,920*	2014

*67% grant

PROJECT INFORMATION:
Subsequent to the CAID Master Plan and GIS study, the sponsor received funding to rehabilitate four drop structures. All of the structures are on a major lateral. The project will benefit 9,712 acres of irrigated lands. The appropriation is 67% grant funding with the remaining 33% being paid by the district. The funding will finance eligible project costs including design, construction engineering, land rights, permitting, and construction.

The construction should be completed prior to the 2010 irrigation season. When completed, this project will help assure continued reliable delivery of water to the irrigators in the district.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

24. **PROJECT:** **Casper Alcova Rehabilitation 2010**
LEVEL: II
SPONSOR: Casper Alcova Irrigation District
LOCATION: Natrona County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	99	2006	II	$200,000	2008

PROJECT INFORMATION:
Subsequent to the CAID Master Plan and GIS study, the sponsor requested funding to replace a portion of Lateral 210 and 210-50 with a buried pipeline. There are approximately 1,213 irrigated acres dependent upon these lateral segments for water. The sponsor requested 67% grant funding from WWDC to match with its own funds to publically bid and contract the work with a contractor for construction of the project. The funding will finance eligible project costs including design, construction engineering, land rights, permitting, and construction.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be progressed in the Rehabilitation Program to Level III status with an appropriation of $477,040. The appropriation would serve as a 67% grant with the remaining 33% of the project costs to be paid by the sponsor.

25. **PROJECT:** **Casper Paradise Valley Pipeline**
LEVEL: III
SPONSOR: City Casper
LOCATION: Natrona County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	38	2009	I	$1,139,000*	2014

* 67% grant

PROJECT INFORMATION:
This project consists of constructing a 16-inch transmission pipeline and appurtenances that would provide redundancy to the City of Casper and regional water customers. The pipeline will connect to an existing 24-inch regional water system pipeline, north of the North Platte River, and to an existing 16-inch City of Casper transmission pipeline in CY Avenue. Construction of the transmission pipeline is part of a City of Casper road improvement project for Paradise Drive. The system redundancy was recommended in both the 1978 Black and Veatch and the 2005 WWDC Level I water master plan reports. The construction of the project is planned to coincide with road improvements.

In October 2009, the city completed the design of the project with its own funding. Construction bids were received in December, 2009. The project will be constructed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

26. **PROJECT:** **Casper's Rock Creek Dam Rehabilitation**
LEVEL: III
SPONSOR: City of Casper
LOCATION: Fremont County (Project), Natrona County (Beneficiary)
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	75	2008	II	$834,150*	2013

* 67% grant

PROJECT INFORMATION:
The City of Casper purchased the Upper Rock Creek Reservoir in May 2007 for the purpose of providing the City and the Central Wyoming Regional Water System with a firm supply of water during the critical period of February through April. During these months, water right administration may occur for the benefit of Pathfinder Reservoir, which has a water right with a December, 1904 priority date.

In order for the city to safely and efficiently operate the reservoir, several improvements are recommended to facilitate the operation and allow for remote monitoring and control of the facilities. The full range of recommended improvements is as follows:

Phase I:

- Reservoir and Spillway: The spillway and overflow are adequately sized; the spillway needs some minor concrete repairs and channel grading.
- Dam: The dam is in good condition; however, a V-notch weir or some other approach should be utilized to monitor seepage at the dam.
- Outlet Works: The outlet control structure needs to be equipped with a new hydraulically operated slide gate; pressure transducers should be installed to monitor the level of the reservoir; a control and communications building should be installed to house the hydraulic pump, and controls and communications equipment; the old valve house structure should be replaced; and, a new valve house should be constructed for the metering and control of the flows through the transmission pipeline.
- SCADA and Electrical: A SCADA system should be installed to communicate the reservoir level and pipeline flows and to control a motor operated valve on the transmission pipeline. The proposed SCADA system would utilize satellite communications. Electrical service should be installed at the control and communication building on top of the dam and at the proposed valve house.
- Stream Gaging Station: A decommissioned flow measuring station is located above the reservoir. The station was operated under a reimbursable agreement between USGS and U.S. Steel. The USGS is willing to sign over ownership of the site to the City of Casper. The gaging station should be renovated and utilized to measure inflows to the reservoir.

Phase II:

- Assess the condition and slip line the 36-inch diameter steel reservoir outlet pipe if necessary.

Phase III:

- Replace the 20-inch diameter ductile iron discharge pipeline.

In 2007, WWDC recommended only Phase I and II of the project be funded at Level III status in the amount of $834,150 from the Rehabilitation Account, which represents a 67% grant of the Phase I and II project eligible costs. The City of Casper will provide project matching funds from its own resources. Level III funding was received following the 2008 legislative session.

During the fall of 2008, Casper Public Utilities (CPU) staff drained the reservoir to the top of the outlet structure and constructed a floating barge around the structure to allow for access, inspection and repair of the outlet structure and the outlet pipe. During this time, the CPU replaced the hydraulic ram on the 24-inch diameter slide gate; removed the existing steel pipe manifold for the hydraulic ram and replaced it with new flexible hydraulic lines; pressure tested the buried hydraulic lines located along the face of the dam; removed and replaced the steel "grizzly" grate; inspected the concrete structure; and inspected and repaired the coating on the 36-inch welded steel pipeline. With the repairs mentioned, the outlet works were considered to be in excellent condition and fully operational.

Final design plans, specifications and bid documents were completed in 2009. During this time, it was determined that wetlands associated with a planned access road to the valve house at base of the dam would need to be mitigated. Delays were encountered during consultation with the U.S. Army Corps of Engineers, as well as with the purchase of necessary land and easements for the project.

The contract for providing electrical service to the top of the dam was let separately and completed in November 2009. Bidding for the remainder of the project is anticipated to take place in early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

27. PROJECT: Casper Zone III

LEVEL: III
SPONSOR: City of Casper
LOCATION: Natrona County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	75	2005	I	$200,000	2007
Level III	121	2007	I	$3,200,000*	2012

* 67% grant, 33% loan

PROJECT INFORMATION:
The Casper Water Master Plan was completed in November 2006. The master plan included detailed analyses of Casper's water pumping, storage and transmission systems. Deficiencies and recommended improvements were identified in all six elevation pressure zones of the Casper Regional Water System. Improvements identified include the construction of transmission loop lines, construction of transmission lines into new areas of growth, construction of redundant transmission lines, replacement of undersized lines, replacement of a pressure reducing valves, replacement of deteriorated booster pump stations, construction of new booster pump station and the construction of additional storage tanks.

The improvements identified in Zone 3, south central Casper – i.e., south and south west of Casper College, are among the largest in scope and were prioritized as being the most urgent. Zone 3 also provides the water which is pumped to and used in Zone 4 which includes the area south of Wyoming Boulevard. Growth in Zones 3 and 4 is projected to be at a rate greater than 3% per year for up to the next 25 years. Additionally there are customers in Zone 2 with less than adequate water pressures that need to be connected into a redefined Zone 3 area. To accommodate growth in Zone 3 and provide for redefining the Zone 3 boundaries to solve low pressure problems in Zone 2, improvements are needed to the transmission, storage and pumping systems.

Funding to construct a 400,000 gallon storage tank at the Sunrise II tank and booster station, replacement of the Sunrise I booster station and the construction of three sections of 12-inch transmission lines total approximately 5,100 feet was approved. The pipelines will enable the city to provide redundant service from water storage tanks to the western and eastern portions of Zone 3, enabling water services to residents in event of a pipe failure. The storage tank is needed to improve system water pressures for both Zones 2 & 3 and to provide additional operational storage for the expanded Zone 3 service area along with increased flows needed to serve the substantial growth which is projected to occur in the Zone 3 area.

Construction of this project has been delayed due to easement acquisition problems, but is expected to be constructed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative is action required.

28. PROJECT: Casper Zone IV Improvements

LEVEL: I
SPONSOR: City Casper
LOCATION: Natrona County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	75	2005	I	$200,000	2007

PROJECT INFORMATION:
This project is part of Casper's efforts to systematically improve its water supply system in accordance with the 2006 Level I Casper Water Master Plan. This project involves raising an existing 400,000 gallon welded steel water storage tank sixteen feet to provide additional system pressure to the Casper Zone 4 service area. Currently residents in this service area experience operating pressures below 35-psi. The project also consists of constructing approximately 1,300 feet of 12-inch pipe to provide redundancy to the northwest area of the service area. The tank raising and pipeline construction were specifically identified in the master plan.

RECOMMENDED LEGISLATIVE ACTION:
WWDC recommends that the project be funded under the New Development Program at Level III status with an appropriation of $663,300 as a 67% grant. The sponsor will be responsible for financing the remaining the 33% of the project costs.

29. PROJECT: Cheyenne Belvoir Ranch Groundwater

LEVEL: II
SPONSOR: City of Cheyenne, Board of Public Utilities
LOCATION: Laramie County
PROGRAM: New Development

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	66	2009	I	$2,000,000	2010

PROJECT DESCRIPTION:
The City of Cheyenne Board of Public Utilities [BOPU] and the Wyoming Water Development Commission have conducted three previous studies to explore and develop ground water supplies on the Belvoir Ranch, located 6 miles southwest of the city. Those studies include:

1. Cheyenne Belvoir Ranch Level II Study, 2004-2007
2. Belvoir Ranch High Plains Aquifer – White River Aquifer Ground Water Exploration Grant Project, 2006-2008
3. Belvoir Ranch Paleozoic Ground Water Exploration Grant Project, 2005-2006

This Level II feasibility study is envisioned as a comprehensive evaluation (including dual surface seismic/resistivity geophysical surveys) of the resource that was partially defined by the test drilling program conducted under the previous WWDC/BOPU Paleozoic ground water grant project. The drilling program will include three additional test wells targeted at the aquifer with the most water supply potential within the approximate fifteen square mile area on the Belvoir Ranch. A production-size well may also be included in the program, based on test drilling results. Test drilling is anticipated to begin in spring of 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

30. **PROJECT:** **Cheyenne's Granite Dam Spillway Improvements**
LEVEL: III
SPONSOR: City of Cheyenne Board of Public Utilities
LOCATION: Laramie County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	75	2008	II	$670,000*	2013

* 67% grant

PROJECT INFORMATION:
Granite Dam and Spillway were constructed in 1904 and are operated by the City of Cheyenne for municipal water supply. The dam was rehabilitated in 1986, but the spillway was not included into the rehabilitation project. The spillway is over 100 years old. In 2004, a Safety of Dams Report provided an assessment of the spillway at Granite Dam. Findings of the report included eroded wing walls, undesirable vegetation, as well as cracked and deteriorating concrete. In July of 2005, a conceptual design and cost estimate were completed for the replacement of the existing spillway with a concrete stepped spillway.

Level III funding was received following the 2008 legislative session. The project was constructed in the fall/winter of 2009. Final payments and project close out will be completed in early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

31. **PROJECT:** **Clear Creek Watershed Study**
LEVEL: I
SPONSOR: Lake DeSmet and Sheridan County Conservation Districts
LOCATION: Johnson and Sheridan County
PROGRAM: Dams and Reservoirs

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	III	$300,000	2011

PROJECT INFORMATION:
The Clear Creek watershed, located in northwest Johnson County and extending into southeast Sheridan County, is approximately 738,312 acres with land ownership divided among federal, private, and state. The watershed includes the main stem of Clear Creek and its tributaries including French Creek, Rock Creek, Shell Creek, Piney Creek, Boxelder Creek and Buffalo Creek.

Landowners within the Clear Creek watershed are concerned about water storage and the need to improve irrigation systems and water efficiencies within the drainage. The Lake DeSmet Conservation District (LDCD) conducted a Rapid Watershed Assessment (RWA) for the Clear Creek drainage and water availability was identified as the largest issue. Requests were made to both LDCD and Sheridan County Conservation District (SCCD) to partner with the Wyoming Water Development Commission to conduct a Level I Watershed Study. In addition, several irrigation interests expressed the need for assistance with evaluating irrigation infrastructure.

Several public meetings were held in 2008 to inform the community of the WWDC's watershed study process. Based on the positive response, the decision was made by LDCD and SCCD to co-sponsor a WWDC funded study of the Clear Creek Watershed. The study kicked off in July of 2009 as a comprehensive assessment of the watershed's condition, needs and opportunities. The study will provide a detailed evaluation of the watershed and will incorporate available technical information describing conditions and assessments of the watershed including hydrology, geology, geomorphology, geography, soils, vegetation, water conveyance infrastructure, and stream system data. The project will consist of field investigations, development of a Geographic Information System (GIS), development of a prioritized list of potential water development and system rehabilitation projects (irrigation rehabilitation, water storage, upland water sources, conservation opportunities, channel restoration, etc), preliminary cost estimates, permitting requirements and funding opportunities. Erosion control, flood control and other non-water development related environmental issues may also be identified. The study should be completed in 2011.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

32. PROJECT: Cody Canal Rehab, GIS

LEVEL: II
SPONSOR: Cody Canal Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	33	2008	II	$ 200,000	2010

PROJECT INFORMATION:
The Cody Canal Irrigation District requested an interactive Geographic Information System (GIS) for the district to use as a planning and management tool. This study mapped the entire conveyance system, identified irrigated polygons, digitized the Big Horn re-adjudication maps, identified needs for the repair of control structures, and prioritized maintenance and repair schedules.

This study was completed in 2009. The District will likely apply for Level III funding in 2010 for the Glory Hole Drop, the Newton Avenue & 19th Street Head gate and Pipeline, a removable pier steel check, and a concrete pier check.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

33. PROJECT: Cody Canal Rehabilitation

LEVEL: III
SPONSOR: Cody Canal Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	II	$250,000	2006
Level III	121	2007	II	$125,000*	2012
Level III	75	2008	II	$1,250,000*	2012

*67% grant, 33% loan

PROJECT DESCRIPTION:
The Cody Canal Irrigation District serves 11,433 acres with a canal system running from the South Fork of the Shoshone River above Buffalo Bill Reservoir to a point several miles northeast of Cody. The system supplies raw water to agricultural uses and urban users as well as supplying a portion of Cody's municipal irrigation water.

In 2008, this project received construction funding for the Sulfur Creek Siphon, Sulfur Creek Spillway, and Diamond Creek Flume. The Sulfur Creek components are being built under one construction contract with work to be completed prior to the 2010 irrigation season. The Diamond Creek Flume is also under contract and will also be completed prior to the 2010 irrigation season. When this project is complete, the sponsor should get many years of dependable use from these structures.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

34. PROJECT: Cody Master Plan

LEVEL: I
SPONSOR: Town of Cody
LOCATION: Park County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	$100,000	2009

PROJECT DESCRIPTION:
The City of Cody had a master plan completed in 1986 followed by the Cody Area Water Supply Level II Study completed in 1996. A large portion of the system improvements outlined in these studies were completed in the 1996 Cody Area Water Supply (Valley View) and the 1997 Cody Raw Water Level III projects. The City experienced considerable

growth in the ten years from 1998 to 2008 with some major users developing outside the water service area. Due to this growth, the City of Cody requested an updated Level I Master Plan Study. This study evaluated their current supply system and updated their plans to current standards for future growth and expansion.

The updated master plan was completed in 2009. The City requested a project to construct a storage tank and pipeline on the north edge of Cody along County Road 2 AB. It was determined that this project's primary purpose was to develop an industrial park. This type of economic development has alternative funding sources and was denied by the WWDC. The City may apply for other projects studied in the 2009 master plan next year.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

35. **PROJECT:** **Cook Road Well**
LEVEL: New Application
SPONSOR: Cook Road Water District
LOCATION: Campbell County
PROGRAM: New Development

PROJECT DESCRIPTION:
The Cook Road Water District is located approximately 5 miles southwest of Gillette and north of Interstate-90. While this boundary may change, the District is presently located outside of the proposed service area for the Gillette Regional Project. The estimated 336 people living in the District are supplied with groundwater from one deep Paleocene Fort Union Formation well. The system has one 490,000 gallon storage tank.

The proposed Level III funding will be used to replace the existing and sole Fort Union Formation well. The existing supply well produces large quantities of natural gas and pumps sand resulting in more than $110,000 in well repairs during the past couple of years. The water production from the existing well has declined and has caused numerous periods of water restrictions due to low or no water available from the well.

The funding request is for construction of a replacement water supply well, well development, aquifer testing, installation of the pump and appurtenances, and a transmission pipeline to connect the well to the existing water supply system.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the Cook Road Well project be incorporated into the New Development Program at Level III status with an appropriation of $1,290,000. The recommended financing plan includes a 67% grant and a 33% loan with an interest rate of 4% and a term of 20 years.

36. **PROJECT:** **Cottonwood/Grass Creek CRM**
LEVEL: II
SPONSOR: Cottonwood/Grass Creek Watershed Improvement District
LOCATION: Hot Springs County
PROGRAM: Dams and Reservoirs

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	II	$300,000	2007
Level II	33	2008	III	$250,000	2010

PROJECT INFORMATION:
The purpose of the project is to pursue construction of one or more dam and reservoir projects that were identified in the recently completed Cottonwood/Grass Creek Watershed Level I Management Plan. The Level I study included spreadsheet modeling of surface water flows and shortages within the Cottonwood and Grass Creek drainages, which indicated surplus water is available that may be stored in reservoirs. Storage would address much of the identified irrigation shortages.

At the conclusion of the Level I study, the consultant recommended that more detailed hydrologic evaluations be prepared for four possible locations for dams and reservoirs in the Grass Creek and Cottonwood drainages. The legislature appropriated $250,000 to fund a Level II dam and reservoir study to further define storage opportunities and to conduct a more robust hydrological analysis to identify irrigation shortages. This Level II, Phase I study also includes compiling a "purpose and need statement" that could be easily incorporated in a National Environmental Policy Act analysis; identification of other beneficial uses (recreational, industrial and/or environmental uses); a limited geotechnical analysis, consisting of drill holes and backhoe test pits; and a cost estimate that includes an analysis of the sponsor's ability to pay. The Level II study is currently underway and is on schedule. The analysis conducted to date favors the expansion of Wales Reservoir over the other sites identified in the Level I analysis.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

37. PROJECT: Cottonwood Lake Storage Enlargement

LEVEL: II
SPONSOR: Cottonwood Irrigation District
LOCATION: Lincoln County
PROGRAM: Dams and Reservoir

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	III	$100,000	2006
Level II	85	2007	III	$80,000	2009

PROJECT INFORMATION:
The first phase of the study evaluated the potential of storing additional water in Cottonwood Lake, which is located near Smoot, Wyoming, for late season irrigation. Cottonwood Lake is a natural lake on Cottonwood Creek, and is the source of irrigation water for the district. There was once a control structure on the lake but it is no longer functional and has not been used for many years. The study reviewed Cottonwood Creek hydrology; the potential for storage; irrigation water demands; geotechnical considerations; and wetlands, environmental and permitting issues.

The Level II, Phase I study also looked at a number of alternatives to provide supplemental water to irrigators in the Cottonwood Irrigation District. In 2006, the report concluded that restoring the lake's dam to the original elevation was the most economical alternative for providing needed storage to the Cottonwood Irrigation District (CID). However, given the traditional 67/33 percent grant/loan WWDC funding, the cost of the construction loan to the CID may be more than they can afford.

On August 7, 2006, the CID requested the WWDC to continue this Level II study in order for the District to identify the most feasible alternative. Project economics and funding mechanisms were examined. Further work on the dam design and permitting remains and will be addressed once a drilling program and geotechnical analysis is completed to determine the technical feasibility for rehabilitating the dam. The WWDC recommends the legislature appropriate funds during their 2010 session to conduct the drilling program and the geotechnical investigation.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the project remain at Level II status with an additional appropriation of $290,000.

38. **PROJECT:** **Cowley Transmission Pipeline**
LEVEL: III
SPONSOR: Town of Cowley
LOCATION: Big Horn County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	75	2008	I	$1,366,800*	2013

*67% grant

PROJECT INFORMATION:
This project consists of replacing an existing 8" asbestos cement water transmission line with a new 10" PVC C-900 class water line. The 8" line is over 40 years old and recent repairs show significant longitudinal stress fractures. This transmission line runs in the corridor from the Town of Cowley to the Town of Deaver.

In addition, two existing 4" PVC water transmission lines will be replaced with one continuous 6" PVC C-900 class water line. Replacement of the two 4" water lines will provide one continuous 6" water line loop in the system. These water lines serve 50 rural water users.

Rehabilitating this system will require installing 32,000 feet of 10" water line and 24,000 feet of 6" line. The project serves 64 taps and could serve as an emergency supply to the Town of Cowley.

In 2007, the sponsor was awarded funding for the construction of the project through a 67% grant of $1,366,800 for the design, construction engineering, and construction of the 10" transmission pipeline and the design of the 6" transmission pipelines.

The sponsor has secured its funding package and is starting the engineering design process. Engineering design is anticipated to be completed in early-2010 with project construction to follow.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

39. PROJECT: Deaver Rehabilitation 2009

LEVEL: III
SPONSOR: Deaver Irrigation District
LOCATION: Park and Big Horn County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	86	2001	II	$100,000	2002
Level III	38	2009	II	$673,000*	2014

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:
Subsequent to a 2002 Level II study, the sponsor is making a concerted effort to rehabilitate its water delivery system. This project replaces open ditches with pipe on laterals D56-1, 196F, and D56-64. The project funds from WWDC are being used to purchase materials and the sponsor is funding the engineering, land rights, and permits, and is providing labor, equipment, and other resources necessary for construction of the project.

The sponsor has started construction of Lateral D56-1 and will complete it prior to the 2010 irrigation season. When complete, this project will facilitate delivery of irrigation water and reduce seepage and evaporative losses.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

40. PROJECT: Deer Creek Dam and Reservoir

LEVEL: III
SPONSOR: State of Wyoming
LOCATION: South of Glenrock, Converse County, Wyoming
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	52	1984	I	$3,000,000	N/A
Level III	89	1985	I	$45,000,000	N/A
Level III	59	1996	I	$15,000,000	N/A
Level III	81	1999	I	$13,500,000	N/A

PROJECT INFORMATION:
Deer Creek is a tributary of the North Platte River. Its drainage basin lies in central Wyoming south of the Town of Glenrock. The proposed Deer Creek Dam and Reservoir is located in the Laramie Range and is situated at the north end of lower Deer Creek Canyon. Access to the dam site is approximately 23 miles from Casper via the Hat Six Road.

The proposed project included the 280-foot high dam, spillway, outlet works, access roads, gaging stations, power supply facilities, utility and road relocations, remote sensing and control features, embankment instrumentation, a boat ramp, and appurtenances. The proposed reservoir capacity was 65,785 acre feet. The primary purpose of the project was to meet the present and future municipal water needs of such communities as Casper, Mills, Wardwell, Evansville, Glenrock, Douglas and possibly others. The project was permitted to provide an annual yield of 9,600 acre-feet. Plans were to obtain construction bids in the winter of 1986 and commence construction in 1987.

In October, 1986, the State of Nebraska reopened the 1945 North Platte River Decree in the U.S. Supreme Court. Nebraska's petition alleged, among other things, that the proposed construction of storage capacity on certain tributaries of the North Platte River violates the decree. The Deer Creek project is located on one such tributary. Wyoming aggressively responded.

In June, 1988, Nebraska's Director of the Department of Water Resources filed another suit concerning the Deer Creek project. The Complaint alleges violations of environmental and administrative laws and regulations against representatives of the U.S. Army Corps of Engineers and the U.S. Fish and Wildlife Service over issuance of the 404 permit and biological opinion. Wyoming was not named as a defendant. Upon motion of the federal defendants, the court ordered the case stayed until resolution of issues related to the Deer Creek Project in the Supreme Court action. Under this action, the federal 404 permit issued for the project was basically jeopardized, which made it impossible to pursue the project.

Ultimately, the differences between the States of Wyoming and Nebraska and the Department of the Interior were resolved through settlement. The settlement was finalized in 2001. In that settlement, the parties authorized the Pathfinder Modification Project (PMP), as an alternative to the Deer Creek Dam and Reservoir. The PMP will provide the same water supply benefits to Wyoming at about 20% of the cost of the Deer Creek Project. See “Pathfinder Modification Project” for additional information.

In 1996, the WWDC requested that the Deer Creek appropriation be reduced from $45,000,000 to $15,000,000. The purpose of the reduction was that the funds were needed to construct a dam for the Greybull Valley Irrigation District. In 1997, the Deer Creek appropriation was reduced to $13,500,000. However, the WWDC was authorized the following spending authorities to pursue alternatives to the Deer Creek Project and other North Platte issues:

99-1-103(d): Upon review by the select water committee and approval of the governor, the commission may use not to exceed one million four hundred thousand dollars ($1,400,000.00) of the project appropriation to pursue alternatives to the project which provide equivalent municipal water supply benefits, assist the Casper Alcova Irrigation District in the resolution of selenium issues, assist the federal contractors of North Platte storage in the resolution of safety of dam issues, and seek long term solutions to endangered species issues in the Platte River basin including the state's participation in the "Cooperative Agreement for the Platte River Research and Other Efforts Relating to Endangered Species Habitats Along the Central Platte River, Nebraska".

RECOMMENDED LEGISLATIVE ACTION:

The WWDC is proposing the following: 1) Reduce the Deer Creek appropriation from $13,500,000 to $5,250,000 and 2) Transfer the unspent balance within the $5,250,000 as of

July 1, 2010 (approximately $3,000,000) to a Pathfinder modification debt service account to fund the state's continued operation, maintenance, replacement and mitigation of the Pathfinder Modification Project. Related recommendations can be reviewed under the "Pathfinder Modification Project."

41. **PROJECT:** **Douglas Master Plan**
LEVEL: I
SPONSOR: City of Douglas
LOCATION: Converse County
PROGRAM: New Development

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	I	$200,000	2010

PROJECT INFORMATION:
The City of Douglas has three water sources to meet its potable water demands and a recently completed water treatment plant. The City is experiencing significant growth which is projected to continue in the immediate future when considering coal, oil & gas, uranium, wind energy, and pipeline corridor industries active in Converse County. In order to address the current and projected growth pressures in the community and meet the needs of its customers, the city requested a Level I study be completed to provide the following:

- Investigation of additional water supplies including expansion of spring capacity, expansion of the Sheep Mountain Well, and expansion of the water treatment plant.
- GIS mapping for the City and its growth boundary, including water system components.
- Growth projections and assessment of the water system's capacity to meet projected growth, and
- Evaluation of water production, storage, distribution, treatment, and transmission capacity to meet growth projections.

The master plan will be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

42. **PROJECT:** **Dubois Water Supply**
LEVEL: III
SPONSOR: Town of Dubois
LOCATION: Fremont
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	82	1998	I	$75,000	2000
Level II	7	2002	I	$75,000	2004
Level II	125	2003	I	$20,000	2004
Level II	34	2004	I	$400,000	2006
Level III	38	2009	I	$2,130,000*	2014

*67% grant, 33% loan

PROJECT INFORMATION:
The Town currently delivers 76,714,000 million gallons of water annually to 628 taps. The average per capita use is 233 per day while the peak demand is 757 gallons. The Town requested grant and loan funding for construction of a new storage facility and well improvements. The increased storage is needed to meet the DEQ requirements for maximum day demand plus fire demand. The well improvements include increasing the piping size, replacing/enlarging the pitless adapter, modifying the electrical system, and increasing the pump size. The well upgrades will allow the Town to increase the production from 750 gpm to 1000 gpm.

The additional storage and upgrades follow the recommendations of the Level II water supply study prepared by the WWDC in 2005. The project documents have been completed. Design will begin in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

43. PROJECT: Dubois Well No. 11 Supply

LEVEL: III
SPONSOR: Town of Dubois
LOCATION: Fremont
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	82	1998	I	$75,000	2000
Level II	7	2002	I	$75,000	2004
Level II	125	2003	I	$20,000	2004
Level II	34	2004	I	$400,000	2006
Level III	118	2004	I	$45,000	2008
Level III	105	2006	I	$205,000*	2011
Level III	75	2008	I	$210,000*	2011

*67% grant, 33% loan

PROJECT INFORMATION:
A production-size exploration well was drilled and tested in summer 2005 under the Level II Dubois Water Supply Study. The well is located on the western edge of town and was completed in alluvial and associated glacial outwash sands and gravels of the broader Wind River valley Quaternary-age deposits. The well will produce 1000 gpm with minimal drawdown and has excellent water quality. The purpose of the Level III project is to connect the well completed during the Level II study to the town's water supply system.

The well connection was originally funded during the 2006 legislative session. In 2007, the town determined that the funds were not sufficient to construct the project as the well's production is higher than expected and the transmission line needed to be larger. The 2008 legislature funded this additional request. The town has recently completed the plans for the project and bidding should be completed by the spring of 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

44. **PROJECT:** **Eden Valley Irrigation District Rehabilitation**
LEVEL: III
SPONSOR: Eden Valley Irrigation and Drainage District
LOCATION: Sweetwater County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	147	2005	II	$1,508,000*	2010

*50% grant

PROJECT INFORMATION:
In 2005, the Eden Valley Irrigation and Drainage District secured WWDC and Bureau of Reclamation Salinity Control funding to convert three laterals within their district from open ditch to pipe. This represented the first phase of an overall project to reduce the salt load to the Colorado River Basin by close to 6,600 tons per year through the reduction of lateral seepage which is estimated to be as high as 50%. Construction of Phase 1 commenced in the fall of 2007 and is scheduled to be completed in the spring of 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required at this time.

45. **PROJECT:** **Eden Valley Rehabilitation 2009**
LEVEL: III
SPONSOR: Eden Valley Irrigation and Drainage District
LOCATION: Sweetwater County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	38	2009	II	$6,580,000*	2014

*50% grant

PROJECT INFORMATION:
During the summer 2008, Eden Valley Irrigation and Drainage District secured additional funding (Phase II) from the Bureau of Reclamation (BuRec) Basin Wide Salinity Control Program to replace four existing earth lined laterals with approximately 95,000 lineal feet of pipe ranging in size from 6" to 60". The project will also include new turnout structures, lateral diversion structures with trash cleaning capabilities and a Supervisory Control and Data Acquisition (SCADA) system to control and monitor flows at the diversion headgates. The BuRec funding is a 50% grant matched by WWDC funding that was approved by the 2009 Legislature. A consulting engineer was hired in 2009 to perform design, bidding and construction management of Phase II lateral work with construction to follow during irrigation off-seasons in 2009, 2010 and 2011. A construction contract for Lateral E13 was awarded in November 2009 with work to be completed by June 16, 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required at this time.

46. **PROJECT:** **Eight Mile/High Plains Well**
LEVEL: III
SPONSOR: Eight Mile Improvement & Service District
LOCATION: Campbell County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	34	2004	I	$60,000	2005
Level II	75	2005	I	$450,000	2006
Level III	105	2006	I	$371,850*	2010

*67% grant

PROJECT INFORMATION:
In 2003, the Eight mile Improvement and Service District submitted an application requesting a study to assess their water system as well as the system of a smaller neighboring subdivision (High Plains Subdivision) and determine preferred alternatives for combining the two systems. The sponsor is located eight miles west of Gillette, just north of the I-90 and Force Road interchange and is supplied by a single deep well (1,466 total depth, completed in Fort Union Formation Aquifer) drilled in 1981. The well and storage tank are unable to meet the present demand. High Plains Subdivision is approximately one mile west of Eight Mile and is under EPA Administrative Order to correct system deficiencies within their drinking water systems. High Plains is too small to qualify for WWDC funding; therefore, they have since joined the Eight Mile Improvement and Service District.

In 2004, a Level II New Development project named Eight Mile-High Plains Well was approved and appropriated $60,000. In 2005, the Level II project was continued and a test well was drilled. This well proved to be a very good well with adequate water quality and quantity. In 2006, the sponsor received a 67% WWDC grant of $371,850 for the design, construction engineering, and construction of the project. The sponsor has acquired the remaining funding from the SRF program.

In 2007, the sponsor secured the services of an engineer and started design of the project. In early-2009 the project design was completed and bids were awarded. The construction of the project was substantially completed in late-2009 and project close-out will occur in early-2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

47. **PROJECT:** **Ethete Water Supply**
LEVEL: Level II
SPONSOR: Northern Arapaho Tribal Business Council
LOCATION: Fremont County, Wind River Indian Reservation
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	34	2004	I	$700,000	2006
Level II	99	2006	I	$605,000	2009
Level II	33	2008	I	$685,000	2010

PROJECT DESCRIPTION:

The Ethete area water system (operated by Northern Arapaho Utilities) relies solely upon highly variable (both in quantity and quality) surface water diverted from the Little Wind River. Low flows, due to irrigation demands in the summer and natural low flows in the winter, often leave Arapaho Utilities unable to divert enough water to meet domestic water needs. High turbidities during runoff and after the South Fork II fire (June 2002) have also caused significant operational problems, which reinforces the need for a reliable ground water source.

In 2004, WWDC funding was acquired to investigate the feasibility of developing available groundwater resources, drill test wells at locations identified in the feasibility study, and develop a master plan for Northern Arapaho Utilities to prioritize needed infrastructure improvements. Additional funding was requested in 2006 to drill a Madison formation well.

In 2007, the WWDC recommended the project be continued in the New Development Program at Level III with an appropriation of $3,200,000. The legislature approved the appropriation at 67% grant and 33% loan. The proposed Level III project included construction, pipeline, materials, and appurtenances necessary for incorporation of the Level II test well into the existing NAU water supply system that serves the community of Ethete and the surrounding area. Upon completion of the Madison well on Sage Creek Anticline in March 2007, it was determined that flows and water quality would not meet the minimum requirements for the sponsor's needs and the well was subsequently plugged and abandoned. In 2008, Level III funds were reverted and the WWDC and NAU began consideration of other options.

Secondary source supply exploration was deemed feasible from two additional aquifer systems. The Wind River Formation is the source supply to the City of Riverton, Town of Shoshoni, and the community of Arapahoe, and therefore held promise in its proximity to Ethete. The other alternative was the broad alluvial sand/gravel sequence identified in the valley of the Little Wind River. Test drilling of the Wind River Formation was completed in late 2008 and test drilling of Little Wind River alluvial deposits occurred in summer of 2009. Adverse water quality conditions (high radionuclides – Ra 226 + Ra 228) precluded development of the Wind River Formation aquifer, but adequate water quantity and quality conditions were discovered in the alluvial well test wells just north of the Fremont County District 21 Elementary/Middle School in the valley of the Little Wind River.

As recommended in the 2009 Level II report, the WWDC and NAU are proposing development of an alluvial well field and transmission pipeline to the existing Ethete water treatment plant.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends the project be advanced in the New Development Program to Level III status with an appropriation of $2,000,000. The recommended financing plan

includes a 50% grant with the remaining 50% of the project budget to be provided by the sponsor.

48. **PROJECT:** **Evansville Master Plan**
LEVEL: I
SPONSOR: Town of Evansville
LOCATION: Natrona County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	$150,000	2010

PROJECT INFORMATION:
The Town of Evansville is experiencing significant growth and increased demand on their water supply system. The town is concerned about the ability of the water treatment plant to meet the demands of planned development in the area. Both residential additions and significant commercial development is planned. Due to serious low water pressures and fire flows in the Hat Six area, the town has enacted a building moratorium in the area pending upgrades to the water system. Additionally, the town is now beginning to experience similar low-pressure issues in the western portions of town as well.

A Level I Master Plan study was undertaken in 2008 which addressed these issues by inventorying system components and condition, performing hydraulic modeling of the system, analyzing system adequacy to meet the needs including regionalization opportunities, identifying management issues/needed future system improvements, providing cost estimates, and identifying funding opportunities to implement the improvements identified. This project was completed in September, 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

49. **PROJECT:** **Evansville Regional Connection**
LEVEL: I
SPONSOR: Town of Evansville
LOCATION: Natrona County
PROGRAM: New Development

PROJECT INFORMATION:
The Town of Evansville's population is predicted to more than double by 2040, thereby increasing the peak day treated water demand. The recently completed Evansville Water Master Plan evaluated options to provide the necessary treated water, including an expansion of the existing water treatment plant as well as the option of abandoning the Town's water treatment plant altogether and acquiring treated water from the Central Wyoming Regional Water System (CWRWS). Decisions need to be made with regards to a reliable, cost-effective source of supply in the future. The proposed Level II study will further evaluate a possible connection to the regional water system. This information will then be compared with similar information compiled for the other water supply source alternatives and recommendations made to the sponsor.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced in the New Development Program to Level II status with an appropriation of $100,000.

50. PROJECT: Farview Water Supply

LEVEL: II
SPONSOR: Farview Water District
LOCATION: Fremont County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	33	2007	I	$375,000	2010

PROJECT INFORMATION:
The Farview Water District is approximately 8 miles north of Riverton on the Burma Road. The District serves the Knight Subdivision, platted in 1976. The existing supply system was constructed utilizing a State Lands & Investments Grant in 1986. The system is presently served by two wells, with a combined actual production of approximately 25 gallons per minute, and a 20,000 gallon storage tank. The wells produce poor quality water with concentrations of total dissolved solids, sodium and sulfates exceeding EPA secondary drinking water standards. The District chlorinates the water to control bacteria levels.

A new water supply well was drilled and tested in 2009 under the Level II study. The proposed Level III project will serve to connect the Level II well to the water supply system. The existing wells will be used to supplement the new well as needed.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the connection of the Level II well be advanced in the New Development Program to Level III status with an appropriation of $100,000. The recommended financing plan calls for a 67% grant and 33% loan at 4% with a 30 year term. The WWDC is also seeking legislative authorization to sell the Level II well to the sponsor for a purchase price of $36,555.90. The purchase price for the well will be added to the project loan.

51. PROJECT: Fayette Irrigation District

LEVEL: III
SPONSOR: Fayette Irrigation District
LOCATION: Sublette County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	81	1999	II	$75,000	2000
Level III	96	2000	II	$98,500	2004
Level III	88	2002	II	$75,000*	2010
Level III	105	2006	II	$160,000**	2010

* 50% grant, 50% loan
** 67% grant, 33% loan

PROJECT INFORMATION:
The Fayette Irrigation District wanted to rehabilitate a major conveyance ditch known as the West Lateral. This portion of the system served 403 acres or roughly 19% of the total adjudicated acres in the district. A Level II study was completed in 1999. The study conducted an inventory of the system, identified needed rehabilitation and improvements, examined the potential for an improved water supply, and prepared conceptual designs and cost estimates for those items.

The 2000 session of the legislature authorized a Level III project loan of $98,500 for a period of 20 years at 7.25% interest. The sponsor decided not to move forward with the project due to financial concerns. In 2002, the sponsor requested rehabilitating a smaller portion of the conveyance system and a revised financial plan.

An engineer was hired and design work undertaken. Easements for the old ditch had never been recorded and much time was spent describing and securing the easements. Meanwhile, inflation rendered previous cost estimates and funding inadequate. The sponsor requested and received additional WWDC funds to cover inflationary costs and money to make repairs to their headgate during the 2006 Legislative Session

In 2006, the district elected to proceed with some of the ditch repairs on their own. The remaining elements of the originally identified project scope consists the rehabilitation and repair of a major diversion and drop structures. Before proceeding with these improvements, easements and right-of way needed to be obtained from the adjacent landowners. An attorney worked with the district to procure the easements and the resolve ongoing litigation throughout 2007 and 2008. These matters were satisfactorily resolved in 2009. The project was under construction in December 2009 with completion anticipated prior to April 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

52. **PROJECT:** **Gillette Fort Union Wells**
LEVEL: III
SPONSOR: City of Gillette
LOCATION: Campbell County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	75	2008	I	$6,970,000*	2013

* 67% grant, 33% loan

PROJECT INFORMATION:
This project includes the construction of five Fort Union formation replacement wells. In 2008, the City of Gillette completed construction of two Fort Union replacement wells with city funds. The Fort Union replacement wells will assist in addressing the immediate water needs of the city until the new Madison pipeline is constructed. Water from the Fort Union wells is blended with water from the Madison pipeline to reduce hardness of the water and meet fluoride standards.

The City has reported that the yields from the S-12 and S-20 replacement wells have increased from approximately 85-gpm to approximately 420-gpm and 260-gpm, respectively. The S-12 and S-20 wells were drilled using reverse circulation drilling methods with a gravel pack well design. In the past, the City's wells were constructed using direct-rotary drilling methods and did not include a gravel pack well design. The City has reported that they frequently have to replace well pumps that have failed resulting from sand production from their wells. The City's engineer believes that construction of the proposed wells using reverse circulation methods will enhance the long-term yield and the gravel pack design will mitigate sand production and subsequent pump failure.

On August 5, 2009, the city opened bids for the five (5) Fort Union wells. To date, one well has been completed, a second well has been drilled and is presently being pump tested. The remaining three (3) wells will be constructed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

53. PROJECT: Gillette Madison Pipeline Joint Bonding

LEVEL: III
SPONSOR: City of Gillette
LOCATION: Campbell County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	147	2005	II	$ 1,225,000*	2014
Level III	105	2006	II	$ 1,675,000**	2014
Level III	38	2009	II	$ 2,177,500**	2014

* 50% grant, ** 67% grant

PROJECT DESCRIPTION:
The City of Gillette's primary water supply is from the Madison Well Field located approximately 12-miles north of Moorcroft. In the early 80's, a 30-inch steel pipeline was constructed to convey water from the well field to the City of Gillette. During construction of the pipeline, the contractor installed electrical jumper wires across the joints and placed mortar on the interior joints. The jumper wires provide electrical continuity for cathodic protection and the grout provided protection to the bare metal. Over the years, the joint bond wires have failed at the welds resulting in the loss of the electrical continuity and subsequent external corrosion along segments of the pipeline. In addition, the mortar has spalled from the interior joints exposing bare metal to corrosion. To address the pipeline cathodic protection issues, the City of Gillette divided the project into three phases.

Phase I reestablished the pipeline electrical continuity by replacing the external electrical joint bonds. Phase I was completed in the fall of 2008. Following completion of Phase I and under Phase II, the city conducted an internal pilot study on approximately 4.7 miles of the transmission pipeline. The pilot study was conducted to: 1) assess the condition of the internal pipeline mortar system and perform repairs, 2) provide production rates used to estimate the number of repairs, time and costs to repair the remainder of the pipeline, and 3) establish system shut down and start up procedures. The remainder of Phase II will address rehabilitating the pipeline mortar lining. This phase also consists of installing manways to provide access into the pipeline. Phase II is in the design phase and the City anticipates construction will be completed sometime mid 2011.

Phase III of the project involves designing and constructing cathodic deep anode beds to provide cathodic protection to the pipeline. Phase III design work will commence following Phase II construction.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

54. **PROJECT:** **Glendo Well**
LEVEL: III
SPONSOR: Town of Glendo
LOCATION: Platte County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	38	2009	I	$ 780,000*	2013

* 67% grant, 12.6% loan, 20.4% sponsor's responsibility

PROJECT INFORMATION:
This project consists of installing a pump in a Level II well and constructing a transmission pipeline between the well and town. The project is in the design phase and the town anticipates bidding the project in early 2010 and construction completed sometime in late 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

55. **Project:** **Glenrock Master Plan**
LEVEL: I
SPONSOR: Town of Glenrock
LOCATION: Converse County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	I	$150,000	2010

PROJECT DESCTIPTION:
The town requested a Master Plan to update population projections based on the newest information available, evaluate the existing water system including the new well and tank, produce a municipal GIS, update the existing hydraulic model, develop necessary system upgrades, improvements, and expansions, and complete an evaluation of the water system financing. Currently, the project is ongoing with data collection tasks completed and preliminary hydraulic modeling underway.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

56. **PROJECT:** **Glenrock Well**
LEVEL: III
SPONSOR: Town of Glenrock
LOCATION: Converse County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	34	2004	I	$600,000	2006
Level II	99	2006	I	$550,000	2008
Level III	75	2008	I	$520,000*	2013
Level III	38	2009	I	$180,000*	2013

* 67% grant, 33% loan

PROJECT INFORMATION:
In 2003, the Town of Glenrock submitted an application to drill a test well and determine the feasibility of constructing a water storage tank, as well as evaluate a power generation system and conduct a hydraulic analysis of the present system. The Town of Glenrock is supplied by three wells. "Well #1" and "Well #2" are shallow wells (230' deep) drawing from the Deer Creek alluvium, "Well #5" is 1,174 ft deep and located in an alluvial aquifer. Wells #1 and #2 have a direct impact on surface water flows and can be shut down under water rights administration, which leaves the town reliant on Well #5 to meet its total demands. The Town wanted the flexibility of shutting Well #1 and Well #2 off during the summer. During the Level II investigations, Test Well #7 was drilled close to the existing Glenrock Well #5 to provide a redundant source of supply. Well #7 is capable of yielding 1,500 gpm. The final report recommended Glenrock request Level III funding to purchase the well and tie the well into their water system.

The 2008 legislature funded the well project. Early in the project it was determined that the control building for the well had been omitted from the original request. The Town requested and received additional funding in 2009 to construct the control building for the project. The engineer has completed the project design and bidding was completed during the fall of 2009. The construction should be completed by the end of 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

57. **PROJECT:** **Gooseberry Rehabilitation**
LEVEL: III
SPONSOR: Gooseberry Creek Irrigation District
LOCATION: Washakie County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	75	2005	I	$75,000	2006
Level II	99	2006	II	$100,000	2008
Level III	75	2008	II	$1,190,000*	2013

* 67% grant, 33% loan

PROJECT DESCRIPTION:
The Gooseberry Creek Irrigation District was formed in 1984, serves approximately 8,000 acres. In 1984, the 'Level II Feasibility Study Gooseberry Creek Water Development Project' was completed. This study recommended the construction of a reservoir in the Gooseberry Creek drainage, but the project did not advance to construction as subsequent investigations identified geotechnical issues at the dam site and the costs exceeded the sponsor's ability to pay.

In 2005, it was determined that the cost of storage, considering the limited amount of excess water available, was beyond the financial capabilities of the District. System upgrades and ground water supplies from area wells did appear to be affordable to the District. Therefore, the District requested a Level II study to determine the feasibility of rehabilitation options. The Level II study was completed in 2007.

The District requested funding from the 2008 Legislature for rehabilitation of the existing system including work on the diversion structures and head gates. The design has been completed and the project should be completed prior to the spring irrigation season in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

58. PROJECT: Goshen Rehabilitation 2009

LEVEL: III
SPONSOR: Goshen Irrigation District
LOCATION: Goshen County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	II	$ 225,000	2008
Level III	38	2009	II	$1,200,000*	2014

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:
Goshen Irrigation District (GID) was formed in 1936 and serves 52,484 acres with a conveyance system from the Whalen Diversion Dam above Ft. Laramie to the Nebraska Stateline. Their water rights include diversions from the North Platte River and storage water from Pathfinder Dam. The district has identified major problems in their district and, with the help of the WWDC, has upgraded portions of their system.

The 2008 Level I master plan identified and prioritized five major areas of rehabilitation need: pipelines, automation, liners, structures and a re-regulation reservoir. The total cost of these items is $89,364,443 in 2008 dollars. In 2009, the GID received a materials only grant of $1,200,000 to complete the Springer Main and Horse Creek lateral diversion rehabilitation.

The GID has completed the design for the Springer Main portion of the project. The Springer Main portion of the project received favorable bids and was awarded in 2009. Construction is anticipated to be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

59. PROJECT: Granger Water Storage

LEVEL: III
SPONSOR: Town of Granger
LOCATION: Sweetwater County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	121	2007	I	$1,024,430*	2012

*67% grant

PROJECT INFORMATION:
Previous Level II WWDC studies in 1990 and 2002 outlined significant improvements required of the Town of Granger's water system involving treatment, storage, transmission/supply and distribution. Due to fiscal constraints, the recommended improvements were not immediately implemented. In November 2005, a Specific Purpose Excise Tax was approved for communities in Sweetwater County. The Town of Granger sold revenue bonds based on the future collection of the tax and is currently implementing the phased construction of the needed water system improvements recommended by the 2002 study using the revenue bonds for the local match.

WWDC grant funding was requested during the 2007 Legislative Session to construct a new 500,000 gallon storage tank, to recoat the interior walls of an existing storage tank, and to make structural repairs on the same existing storage tank. Construction of the new tank will be situated at an appropriate elevation to provide adequate water pressure to the upper reaches of the service area, thereby eliminating inadequate water pressures.

Upon completion of the new tank, the existing tank will be taken out of service and repairs and recoating of the existing tank will be accomplished. The completion of work on the tanks will then allow the Town to undertake replacement of air valves, flushing valves and control valves on the main water supply transmission line.

During 2008, a geotechnical investigation to confirm the location of the storage tank at the preferred site was completed. Negotiations for procurement of a permanent easement and access to the site took place in late 2008. Design of the tank was completed in June 2009 after the easements had been procured. A construction contract for the tank and transmission line was awarded in August 2009 with completion by February 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

60. PROJECT: Green River Decision Support System (DSS) Feasibility Study

LEVEL: Level I
SPONSOR: WWDC
LOCATION: Green River Basin
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	85	2007	I	$600,000	2010

PROJECT DESCRIPTION:

The legislature initiated the Statewide Water Planning Process in 1999, with an appropriation to fund the Bear and Green River Basin Plans. Those plans were completed in December 2000. The 2000 Legislature appropriated funding for the Powder/Tongue River Basins, and the Northeast Wyoming River Basins Plans. Those plans were completed in December 2001. The next basin plans undertaken were the Wind/Bighorn and the Snake/Salt River Basins. Those plans were completed in 2002. The Platte River Basin Plan was started in 2003 and completed in June of 2006. With the completion of the Platte River Plan, the first round of river basin plans was complete. The State Framework Water Plan, which was to update the 1973 framework plan and to consolidate information from the seven basin plans, was initiated in 2005 and was completed in 2007.

In 2007, the legislature appropriated $600,000 for the completion of the Green River Basin Plan II to continue the state river basin planning process. Continuation of the process is necessary to keep the river basin plans current and accurate. The Green River Basin is experiencing unprecedented growth and changes in land and water use, as well as downstream pressures on water resources, making a plan update important and timely. The Green River Plan update began in 2007 and will be completed in 2010. Additionally, an agreement was developed between the Wyoming State Geological Survey in cooperation with the U.S. Geological Survey and the University of Wyoming, Water Resources Data System (WRDS) to conduct a groundwater resources evaluation in the basin. Work on the groundwater evaluation began in June 2007 and was completed in 2009.

The Wyoming Water Development Office (WWDO) is continuing the planning process by conducting a feasibility study for development of a river basin simulation model and decision support database system. The study is needed to provide direction on development of a surface water hydrology model to allow a better understanding of the water flows and use in the Green River Basin. The decision support system will assist in water planning, management and administration. The study is currently ongoing and meetings with the State Engineer's Office, WWDO, and WRDS staff members have helped define what data exists and what data are necessary to develop a decision support system. The study is scheduled to be completed by November 2010.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

61. PROJECT: Green River Supply Canal Rehabilitation

LEVEL: III
SPONSOR: Green River Irrigation District
LOCATION: Sublette County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	7	2002	II	$200,000	2004
Level II	34	2004	II	$ 40,000	2006

Level III	147	2005	II	$200,000*	2013
Level III	38	2009	II	$150,000*	2013

* 67% grant, 33% loan

PROJECT INFORMATION:
The Green River Canal has been in operation for many years and delivers water to irrigators with water rights that date back to the early 1900's. Water is delivered to 5,830 acres from Cotton Wood Creek and the Green River. The canal suffers from delivery, conveyance, erosion, and seepage problems. The primary diversion is from the Poole Slough off of the Green River. The Green River Canal water is transported through Cottonwood Creek and it is believed that there are significant losses suffered through this stretch.

New research in the area of canal seepage indicates that polyacrilamide (PAM) added to irrigation water causes suspended sediments to flocculate and settle to the bottom of the canal. This in turn may help seal the canal and prevent seepage. This technology has been used in water treatment for years to settle particulates from drinking water. A pilot study was funded by the 2004 legislature to examine application rates, monitor seepage rates, and report on application procedures. The PAM application proved to be successful in reduction of seepage but the degree of success was variable. The cost/benefit ratio was not favorable based on a one year study period. It is unknown if multiple year applications might be additive without further study. The final report for this seepage study is available in our office.

The district was awarded Level III funding in 2005 in the amount of $200,000 in the form of a 50/50 grant/loan with the loan terms being 6% interest for 20 years. The scope of the project funding included the resolution of several safety problems on diversion structures, under-drain replacements, repair of potential low bank washouts, and canal reshaping.

Before proceeding with these improvements, easements and right-of way needed to be obtained from the effected landowners. This resulted in delays to the project until the fall 2008 at which time the district obtained an attorney's title opinion clearing the way for construction of the improvements. Due to the delay, an increase in funding and an extension of the funding reversion date was requested from and approved by the 2009 Legislature. Engineering design was started in July 2009 with project work anticipated to start in the early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

62. PROJECT: Greybull Pipeline and Well Improvements

LEVEL: III
SPONSOR: Town of Greybull
LOCATION: Big Horn County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	34	2004	I	$475,000	2006
Level III	75	2008	I	$1,470,000*	2013

*67% grant and 33% loan

PROJECT INFORMATION:
The Greybull Well Rehabilitation Level II Study completed in 2006 recommended pumping systems for two of the flowing wells supplying the Town of Greybull. The conversion to pumps will increase the yield of the wells significantly. The study also included a comprehensive evaluation of the Greybull water transmission pipeline. The evaluation recommended key pressure control improvements for more efficient operation.

The design for the pump and controls at the Shell Well No. 3 and the pipeline improvements was completed in 2009. Construction of the project has begun and should be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

63. PROJECT: Greybull Valley ID Hydro Power

LEVEL: III
SPONSOR: Greybull Valley Irrigation District
LOCATION: Park/Big Horn County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	7	2002	I	$60,000	2004
Level III	121	2007	I	$476,000*	2012

* 100% loan for design and permitting only

PROJECT INFORMATION:
The Greybull Valley Irrigation District wished to pursue a detailed cost analysis of placing hydropower generators at the base of their three major reservoir dams. The two-year study included an examination of the transmission requirements to get the generated power to users.

In 2006, the District obtained the FERC preliminary permits and filed WWDC applications for the hydropower construction projects. With the current budget shortage, the project was recommended for funding of the design phase of the Level III project and postponement of the construction phase of the project.

In 2007 and 2008, the District continued discussions with power companies to determine the price per kilowatt hour the District would receive for power generated at Lower Sunshine Reservoir. They also approached the Wyoming Business Council and the Wyoming Pipeline Authority to identify funding sources for construction of power transmission lines from Lower Sunshine Reservoir to the existing grid. Once the District knows the costs and benefits, it may opt to pursue or abandon the project. The District will not use any of the existing Level III appropriation unless it decides to seriously pursue the project.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

64. **PROJECT:** **Greybull Valley Rehab, GIS**
LEVEL: II
SPONSOR: Greybull Valley Irrigation District
LOCATION: Big Horn County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	33	2008	II	$150,000	2010

PROJECT INFORMATION:
The District requested an interactive Geographic Information System (GIS) be created and built for the district to use as a planning tool. The study includes mapping the conveyance system, identifying irrigated polygons, digitizing land classification maps, identifying repair needs of control structures, and prioritizing maintenance and repair schedules.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

65. **PROJECT:** **GVID Upper Sunshine Diversion**
LEVEL: II
SPONSOR: Greybull Valley Irrigation District
LOCATION: Big Horn County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	33	2008	II	$100,000	2008
Level III, Phase I	38	2009	II	$300,000*	2014

*67% grant, 33% loan for design and permitting only

PROJECT INFORMATION:
The Greybull Valley Irrigation District requested a study to evaluate the repair or replacement alternatives for the diversion dam for Upper Sunshine reservoir. The dam is located on the Greybull River approximately 15 miles west of Meeteetse. The diversion dam, built in the 1930's, is critical to the delivery of water to the district and is in serious need of rehabilitation.

Conceptual designs and specifications for the Upper Sunshine Diversion have been prepared and incorporated into the Level II report, which is scheduled to be completed by spring 2010. Funding for designs/specifications, permitting/mitigation, and access/ROW for the diversion was recommended and appropriated in 2009. No design contract has yet been awarded under this appropriation.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

66. **PROJECT:** **Groundwater Studies**
LEVEL: N/A
SPONSOR: State
LOCATION: Statewide
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
GW Grants	8	1981	I	$3,000,000	N/A
GW Grants	35	1984	I	$1,000,000	N/A
GW Grants	7	2002	I	$1,500,000	N/A
GW Grants	75	2005	I	$1,000,000	N/A
GW Grants	33	2008	I	$ 500,000	N/A

PROJECT INFORMATION:
In 1981, the Legislature appropriated $3,000,000 to be granted to incorporated municipalities for the purpose of groundwater exploration. Grants were limited to $200,000 and a 10% match was required. In 1984, an additional $1,000,000 was appropriated and the local share was increased to 25%. Since inception, over 40 communities have benefited from this program.

During the drought in the early to mid 2000's, it became apparent that additional funding would be beneficial to assist municipalities and special districts address shortages in their drinking water supply. In 2002, an additional $1,500,000 was appropriated for the program; the grant amount was raised to a maximum of $400,000 per entity; and the program was expanded to include water, water and sewer, and service and improvement districts. The WWDC recommended and the legislature approved additional program funds of $1,000,000 and $500,000 in 2005 and 2008, respectively. Unencumbered funds in the Ground Water Exploration Grant Program currently total $587,938.

CURRENT SPONSOR + ACTIVE/OBLIGATED FUNDS
City of Cheyenne/Board of Public Utilities (Managed ASR, Laramie County): $400,000
RECOMMENDED LEGISLATIVE ACTION:
No legislative action required

67. **PROJECT:** **GR-RS-SC JPB Water Supplies**
LEVEL: II
SPONSOR: GR-RS-SC Joint Powers Water Board
LOCATION: Sweetwater County
PROGRAM: New Development

EXISTING LEGISLATION

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	75	2005	I	$250,000	2007
Level I	85	2007	I	$220,000	2010
Level II	66	2009	I	$350,000	2011

PROJECT DESCRIPTION:
In 2005 and 2007 the legislature appropriated $250,000 and $220,000, respectively, for the Green River-Rock Springs-Sweetwater County Master Plan. The master plan identified two

high priorities: a raw water management study and the Reliance area storage and transmission study.

The current study is to investigate a raw water storage site to regulate water deliveries to water treatment plant. Work is underway to determine where potential storage sites would be feasible and drilling programs have begun to better define the subsurface conditions of the areas. The drilling programs will be useful during the ultimate design of the dams.

The Reliance system has been modeled. The area near the tank was drilled to collect data to ensure the existing soil conditions could support the replacement tank.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

68. **PROJECT:** **Heart Mountain Lining**
LEVEL: III
SPONSOR: Heart Mountain Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	34	2004	II	$100,000	2008
Level II	99	2006	II	$21,000	2008
Level III	121	2007	II	$78,000*	2012
Level III	75	2008	II	$900,000*	2012

*67% grant, 33% loan

PROJECT INFORMATION:
The Buck Springs Siphon is located relatively high in the water delivery system, serving about seventy percent of the acres in the irrigation district. The inlet to the siphon exhibited damage and needed replaced. This project replaced the cast-in-place reinforced concrete pipe at the inlet as well as the concrete transition structure and a short distance of the contiguous concrete lining in the canal upstream of the inlet. The 2007 legislation provided design phase funding and the 2008 legislation provided construction phase funding.

Construction of this project has been completed. The account is being held open pending project closeout.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

69. **PROJECT:** **Heart Mountain Rehabilitation**
LEVEL: III
SPONSOR: Heart Mountain Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	34	2004	II	$100,000	2008

Level II	99	2006	II	$21,000	2008
Level III	75	2008	II	$1,574,500*	2013

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:
Subsequent to a Level II study researching weed screens, the sponsor requested and received funding to replace open ditches with pipelines and to install a weed screen at the head of Ralston Lateral. The WWDC will finance the purchase of materials and the sponsor will fund the engineering, land rights, and permits and will provide labor, equipment, and other resources necessary for construction. When complete, this project will facilitate efficient water delivery.

Construction of lateral R15-2N has been completed. Construction of laterals R15-6N, R26, R28, and the H-103 head box has begun and will be completed prior to the 2010 irrigation season. Design work has begun on the weed screen at Ralston Lateral. The remaining work will likely be completed prior to the 2011 irrigation season.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

70. PROJECT: Heart Mountain Rehabilitation 2010

LEVEL: New Application
SPONSOR: Heart Mountain Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	34	2004	II	$100,000	2008
Level II	99	2006	II	$21,000	2008

PROJECT INFORMATION:
Subsequent to a Level II inventory and GIS study, the sponsor is requesting funding to replace open ditches with pipelines, replace two diversion structures, construct a new diversion structure, and install automated gates at two locations. The WWDC will finance the purchase of materials and the sponsor will fund the engineering, land rights, and permits and will provide labor, equipment, and other resources necessary for construction. When completed, this project will facilitate efficient water delivery.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated at Level III status into the Rehabilitation Program with an appropriation of $1,180,000. The financing plan includes a 100% grant to be used only for the purchase of invoiced materials. The sponsor is responsible for the remainder of the project costs.

71. PROJECT: Hidden Valley

LEVEL: III
SPONSOR: Midvale Irrigation District
LOCATION: Fremont
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	7	2002	II	$100,000	2004
Level III	118	2004	II	$1,474,103*	2010
Level III	105	2006	II	$1,495,440*	2010

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:

The Midvale Irrigation District requested a study to determine the feasibility of converting approximately 7 miles of an open, unlined canal known as the Hidden Valley lateral of the Pilot Canal into a gravity-pressurized pipeline serving the Hidden Valley area. Hidden Valley is located along the Wind River upstream of Boysen Reservoir. The gravity-pressurized system will serve approximately 2,200 acres and will conserve an estimated 7,000 acre-feet of water after existing flood irrigation practices are converted to sprinkler irrigation which will be facilitated by the pressurized system. The study also included evaluation of re-regulation reservoir sites.

The 2004 Legislature appropriated $1,474,703 to the Midvale Irrigation District as a 100% grant for the purchase of materials to install the Hidden Valley pipeline. Engineering, installation and permitting costs were provided by the District via an agreement with the Natural Resources Conservation Service (NRCS) of the U.S. Department of Agriculture. The northern portion of the pipeline was constructed in 2007.

In 2006, the District requested and received an increase to the 2004 appropriation in the amount of $1,495,440 to complete the southern portion of the pipeline. Construction of this final phase of the pipeline was started in October 2006 and will be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

72. PROJECT: Highline Canal

LEVEL: III
SPONSOR: Shell Valley Watershed Improvement District
LOCATION: Big Horn County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	7	2002	II	$50,000	2004
Level III	69	2003	II	$531,000	2008
Level III	75	2008	II	$808,050*	2012

*100% grant for invoiced materials and a loan of $61,000

PROJECT INFORMATION:

In 2002, the WWDC completed a Level II study of the Highline Canal which diverts irrigation water from Trapper Creek. The study was performed at the request of the Shell Valley Watershed Improvement District. The Shell Valley Watershed Improvement District is the water development and management entity for the Shell Creek watershed. The District owns and operates Lake Adelaide and Shell Reservoir. The District wanted to implement the recommendations presented in the Level II Study which included: diversion

structure replacement; installation of a pipeline in the canal to convey the water; and, installation of new delivery structures. These improvements would benefit the irrigators along the Highline Canal as well as the residents in the community of Shell.

The original funding package was for a conventional construction project. As the project progressed, the design was completed, but the District experienced difficulties with obtaining the easements required for construction. The project was delayed as the District negotiated with the land owners for the easements. Negotiations failed so the District proceeded with condemnation proceedings. This further delayed construction. During this period of delays, construction and material costs escalated and construction cannot proceed within the existing budget.

Rather than requesting an additional grant and loan, and continuing the original project package, the District requested that the project be converted to a "materials only" project. The sponsor is responsible for costs associated with engineering services. Therefore, the sponsor also requested that the WWDC approve a loan with a fifteen year amortization to cover the expenditures for engineering under the existing grant and loan. The amount of the loan cannot exceed $61,000.

This project was expected to be completed in 2009, but the sponsor has been having difficulty organizing construction activities.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

73. **PROJECT:** **Hopkins Producers Supply**
LEVEL: III
SPONSOR: Hopkins Producers Irrigation District
LOCATION: Johnson County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	105	2006	II	$703,500*	2010

* 67% grant, 33% loan

PROJECT INFORMATION:
This project consists of constructing a series of gravity pipelines to replace the existing Hopkins Irrigation Canal. The pipeline will conserve water that currently is lost to canal seepage. The pipelines include farm turnouts that will provide water to pivots that will irrigate approximately 3,600 acres of grass and alfalfa. The project also includes construction of an inlet structures at French Creek that will supply water to the pipeline. The project also includes metering at the farm turnouts and a telemetry system that will increase water management efficiency. Sections of the canal with bank erosion will be reconfigured. The project is under construction and the District anticipates completion in early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

74. **PROJECT:** **Hudson Water Supply**
LEVEL: III
SPONSOR: Town of Hudson
LOCATION: Fremont County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	99	2006	I	$575,000	2008
Level III	38	2009	I	$1,520,000*	2014

* 67% grant, 33% loan

PROJECT INFORMATION:
The Town of Hudson depends on ten shallow alluvial wells on the banks of the Little Popo Agie River and two 100,000 gallon storage tanks to serve 224 municipal taps. In July of 2006, the U.S. Environmental Protection Agency served an Administrative Order stipulating the Town must seek alternative means to provide safe drinking water since the wells tested positive for "Ground Water under the Direct Influence of Surface Water."

To provide an adequate supply, nine of the ten original wells will be replaced with new wells equipped with screens and a gravel pack (original wells were completed with slotted steel casing set into river deposits). Water will be conveyed via a collection system to a new water treatment plant that was funded from other sources. The 250,000 gallon storage tank will alleviate existing water supply problems and will provide water for future demands.

The Town of Hudson is forced into compliance by the EPA to "treat or else" because of its highly vulnerable alluvial well field. Together, the new well field and storage tank will complement the new water treatment plant, providing a vastly improved system that is capable of providing water that meets EPA drinking water standards. Final design is underway. Construction should begin in 2010

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

75. **PROJECT:** **Jackson Storage Tanks**
LEVEL: New Application
SPONSOR: Town of Jackson
LOCATION: Teton County
PROGRAM: New Development

PROJECT INFORMATION:
The Town of Jackson has requested funding assistance to construct two new potable water storage tanks. The existing tanks are an 80,000 gallon steel tank and an 800,000 gallon concrete tank. The smaller 80,000 gallon tank is located on private property adjacent to the Snow King Ski Resort and would be replaced with a 130,000 gallon concrete storage tank on property purchased by the Town in close proximity to the existing tank. The larger 800,000 gallon storage tank is located on the National Elk Refuge just outside of the Town limits. Following demolition of this tank, a new 1,300,000 gallon concrete storage tank

would be constructed on the same site. Officials of the National Elk Refuge have confirmed in writing that such a replacement in place activity would qualify for a categorical exclusion under NEPA.

The existing 800,000 gallon concrete tank is nearly 50 years old and required a liner to be installed inside the tank to mitigate multiple leaks in the concrete walls approximately 15 years ago. The useful lifespan of the storage tank has been exceeded and needs to be replaced with a larger tank that would be capable of providing water to all three pressure zones of the Town. Accordingly, it would be sized to address increased growth within Jackson.

The existing 80,000 gallon above-ground steel storage tank has also exceeded its useful life and is experiencing significant internal corrosion and staining along with delaminating of the tank's roof. In addition the tank is poorly protected from falling trees and earth slides where it is currently located. Because it is an above-ground steel tank, its storage level capacity must be significantly decreased in the winter to control freezing and ice build up. Relocating the tank to a nearby site would allow for a concrete tank to be covered on the hillside while allowing for increased capacity to more properly address needed peak and fire flows.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the project be incorporated into the New Development Program at Level III status with an appropriation of $4,000,000. The financing plan includes a 67% grant and a 33% loan with an interest rate of 4% and a term of 30 years.

76. PROJECT: Jamestown/Rio Vista Water Supply

LEVEL: II
SPONSOR: Jamestown-Rio Vista Water and Sewer District
LOCATION: Sweetwater County
PROGRAM: New Development

EXISTING LEGISLATION

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	33	2008	I	$75,000	2007

PROJECT DESCRIPTION:
The 2008 Legislature appropriated $75,000 to complete a Level II study to review the existing water supply system including the intake structure, treatment facility, and storage tank. As part of the study, the District also requested an analysis of expanding their system so they could serve additional water users within their boundaries. The District is interested in regionalization opportunities due to the proximity to Green River.

The study is very close to completion. The final result is a design targeting the needs of the sponsor with a connection to the Joint Powers Water Board and new pipeline. The City of Green River's intends to develop property west of the district. If Green River pursues development of this property, it would be in the best interest of the sponsor and the City to work jointly to design a system that accommodates both of their needs.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

77. **PROJECT:** **Kemmerer – Diamondville Master Plan**
LEVEL: I
SPONSOR: Kemmerer – Diamondville JPB
LOCATION: Lincoln County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	33	2008	I	$100,000	2010

PROJECT INFORMATION:
Kemmerer–Diamondville has experienced a population surge due to the increase in energy exploration in the area. This population increase, coupled with the need for a new water treatment plant, aging infrastructure, and inadequate intake facilities has caused them to question their ability to serve the long term needs of their customers. The Master Plan has addressed several issues and made recommendations for further study.

The plan shows that there are deficiencies in the transmission system throughout the communities due to age and lack of redundancy. There are also recommendations to rehabilitate existing storage and build new storage and to address pumping and pressure issues. The sponsor is requesting a Level II study to complete conceptual designs and cost estimates for the needed improvements. It is anticipated that several Level III projects will be identified in this Level II study.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the Kemmerer-Diamondville Water System be advanced in the New Development Program to Level II status with an appropriation of $100,000.

78. **PROJECT:** **Keystone and Farmers Canal Master Plan**
LEVEL: New Application
SPONSOR: Keystone and Farmers Canal companies
LOCATION: Park and Bighorn Counties
PROGRAM: Rehabilitation

PROJECT INFORMATION:
The Keystone canal company applied for funding to determine the feasibility of combining 5 small canals into one larger canal with one new diversion structure. Currently the five small ditches have no diversion structures. To divert water from the river, gravel banks are constructed to channel water into the canal. When the river flows are high, the gravel banks wash out and the canal company has to hire a contractor to replace the gravel banks.

The Farmers Canal Company would like to investigate the potential for a re-regulating reservoir at the bottom of the system to better serve the territorial water rights at the lower end of the canal. The reservoir could help deliver water to the territorial rights while still allowing irrigators at the upper end to irrigate.

Farmers and Keystone Canal Companies are within the boundaries of the Greybull Valley Irrigation District. The operation of Greybull Valley Irrigation District is different than most other irrigation districts. They release water from their reservoirs into the river where the canal companies that called for water can divert it for their irrigation needs. Greybull Valley ID does not own any infrastructure beyond the reservoirs and associated reservoir

supply canals, but their boundary extends down river, encompassing all the lands to which they supply water. This creates a problem for the canal companies, like Keystone and Farmers, because they can't form an irrigation district within the boundaries of an existing irrigation district. Greybull Valley Irrigation District, the Keystone Canal group, and the Farmers Canal Company have all requested that we investigate this problem and make recommendations that will allow the canal companies to form public entities that are eligible for WWDC funding.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the project be incorporated into the Rehabilitation Program at Level I status with an appropriation of $250,000.

79. PROJECT: Kirby Creek Watershed Study

LEVEL: I
SPONSOR: Hot Springs Conservation District
LOCATION: Hot Springs County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	125	2003	II	$175,000	2004
Level I	66	2009	I	$150,000	2010

PROJECT INFORMATION:
The Kirby Creek watershed, located northeast of Thermopolis, includes approximately 128,605 acres with land ownership divided among federal (50%), private (38%), and state (12%). The watershed includes the main stem of Kirby Creek and its tributaries including East and West Kirby Creek and Lake Creek.

A watershed study was completed for Kirby Creek in 2004. Watershed rehabilitation project activities identified and recommended in the 2004 study have been completed. On behalf of the Hot Springs Conservation District, the WWDC is preparing an updated watershed study to evaluate the effects of previous project implementation to current watershed function, evaluating current condition of riparian areas within the drainage and updating geomorphic classifications.

The development of an updated upland livestock and wildlife water management and rehabilitation plan will be included in the plan. This information will provide baseline information from which the District can continue implementation of management practices that address the natural resource issues within the drainage. This study is expected to be complete in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

80. PROJECT: Kirby Irrigation District Conservation Program

LEVEL: II
SPONSOR: Kirby Irrigation District
LOCATION: Hot Springs County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	123	2007	II	$200,000	2007

PROJECT INFORMATION:
The Kirby Irrigation District and the Kirby Ditch Company operate a gravity flow headgate and canal system. Water is diverted from the Big Horn River and delivered to approximately 3,200 acres of irrigated lands. There are 47 landowners served on this system. This study is conducting an evaluation of the potential for delivery system and on-farm water conservation opportunities; a review of current operations including water appropriation and water rights; and a determination of conveyance losses. The comprehensive management and rehabilitation plan will address need improvements to existing structures on the conveyance facility, the potential to automate the delivery system, and potential re-regulation reservoir alternatives. Digital mapping of the system that covers the main canals, laterals, and conveyance system structures is also being prepared. The report will be completed in the spring of 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

81. PROJECT: Kirby Municipal

LEVEL: III
SPONSOR: Town of Kirby
LOCATION: Hot Springs County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	II	$75,000	2006
Level III	121	2007	I	$608,000*	2012

*67% grant and 33% loan

PROJECT INFORMATION:
A Level I master plan study was requested to help identify solutions to chlorination issues, which are related to the town's water distribution system. The town receives its water from Thermopolis via a 12-mile transmission line. Specifically, the study included a model the town's water system, a leak detection test, and a GIS based water system map to identify distribution and transmission piping that needs to be replaced and/or constructed. The study was completed in 2006, which recommended the construction of transmission pipelines to eliminate dead-end waterlines along with the installation of new flow meters, chlorine injection pumps, and control valves on the feed to and from the water storage tank.

In 2007, the town received funding for the WWDC eligible project components. Construction was completed in 2009 and project closeout will occur in early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

82. PROJECT: Lake DeSmet Rehabilitation

LEVEL: III
SPONSOR: Lake DeSmet Counties Coalition, Joint Powers Board
LOCATION: Johnson County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	7	2002	II	$100,000	2004
Level II	34	2004	II	$150,000	2006
Level III	147	2005	II	$165,000*	2013
Level III	38	2009	II	$1,265,000*	2013

* 67% grant, 33% loan

PROJECT INFORMATION:

The Lake DeSmet Counties Coalition Joint Powers Board (JPB) requested assistance with planning water use and reservoir operations; as a result a Level II project was approved in 2002. The initial Level II study was completed and the JPB requested continued assistance with reservoir management and operation. Several issues were identified during the initial study that required follow-up evaluations or continued monitoring. These issues are discussed below. There was need to continue seepage monitoring and inspection around the reservoir. Seepage occurs when the reservoir is filled above the 4612-foot elevation. Over the last twenty years, the reservoir has been operated at or under the 4612-foot elevation, eliminating the need for seepage monitoring. However, when the reservoir is operated at full capacity, the water elevation approaches elevation 4620. To take full advantage of the reservoir and the associated water rights, the JPB anticipates filling the reservoir to elevation 4620. Thus, they requested assistance to install weirs and add additional shallow observation wells to evaluate the seepage.

The JPB also wished to conduct an inspection of the water supply tunnel from Piney Creek to the Lake. The tunnel is the main water supply for the reservoir and if it were to fail, the reservoir would be impacted. The tunnel is over twenty years old and internal inspections have never been completed. Investigations would require underwater inspections either by divers or by remote controlled equipment. Funds were not available to perform the underwater inspections during the initial study and the JPB requested that the tunnel investigations be funded as part of the Phase II request.

The JPB has an annual water right from Rock Creek for 875 acre-feet. The conveyance from Rock Creek to Lake DeSmet is through the Chevron/Texaco irrigation system. The JPB requested preliminary design plans be prepared for conveyance of Rock Creek water. This consisted of preliminary design plans, cost estimates, and identifying environmental and landowner impacts associated with proposed improvements.

The Level II Phase II was completed in November 2004. The tunnel inspection showed the tunnel to be in good condition and no repairs were needed at the time. However, the Phase II study recommended several repair and maintenance projects for Level III final design and construction. These included repair or replacement of the outlet slide gates, fabrication and installation of a top grate on the tunnel outlet shaft, installation of piezometers in the north dam, and grading and riprap slope protection on an area of the southwest shoreline.

Level III funding was received following the 2005 legislative session. An inspection of the outlet slide gates was completed in November 2006. After the inspection, it was determined that the outlet slide gates would not need to be repaired or replaced, and that previously identified seepage pertaining to the gates could be controlled through improved operation and management. Drilling and installation of piezometer wells in the north dam was completed in June 2007. The purpose of the new wells is to document water levels and seepage conditions through the embankment materials. During the same month, a large windstorm caused significant erosion to the southwest shoreline, resulting in damage to approximately 1,300 linear feet of the embankment and creating a void of approximately 9,800 cubic yards. As a result of the windstorm, the importance of the shoreline stabilization increased significantly. It became necessary to repair the damaged embankment and protect the embankment from future erosion. Consequently, the estimated associated costs for this task increased drastically, easily exceeding the entire project appropriation. The district applied for additional funding for the project from the 2009 Legislature. In the interim, the district completed the fabrication and installation of a top grate on the tunnel outlet shaft and received approval for use of the remaining original appropriation for sediment excavation near the Piney Creek Intake. During the last few years, spring flows have been too low to remove sediment and debris from the intake. This resulted in a build up of material that could potentially clog the intake structure.

Additional Level III WWDC funding was requested and received in 2009. During the 2009 construction season, grading and riprap slope protection was completed on the south dam and areas of the southwest shoreline. In addition, sediment was removed from the Piney Creek intake area. The project should be finalized by early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

83. PROJECT: LaBarge Water Supply

LEVEL: II
SPONSOR: Town of LaBarge
LOCATION: Lincoln County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	99	2006	I	$400,000	2010

PROJECT INFORMATION:
The Town of LaBarge is situated in the Green River drainage portion of Lincoln County and depends solely on alluvial ground water, fed by the Green River, as its water supply. Incorporated in 1973, the town has relatively modern supply system components. However, the intake gallery located in the sands and gravels of the Green River floodplain is in jeopardy. The U.S Environmental Protection Agency determined the town's shallow ground water supply as "Groundwater Under the Direct Influence of Surface Water," therefore requiring surface water treatment. Secondly, the efficiency of the original infiltration gallery to divert water upon demand has deteriorated to a critical state. Complicating these matters is the potential for increased population and water demand on the system because of economic growth in the Green River Basin including the development at the Jonah and Pinedale Anticline fields.

The Level II study began by approaching the issues by considering alternatives including deep ground water development to replace the existing infiltration gallery and thus relieve potential treatment costs. The study also provided a basic master planning including system mapping, master meter testing, usage/demand/growth evaluation, feasibility of suggested system alternatives (including treatment and distribution), recommended alternatives, conceptual designs, cost estimates, and funding opportunities.

In 2007 it was determined that the bedrock aquifer (Wasatch Formation) near LaBarge would not meet the towns minimal needs for quantity and quality. Subsequently, a shallow TDEM resistivity survey, conducted on the meander deposits of the Green River, revealed potential for alluvial ground water development. A borehole exploration was completed in late 2009 to determine the occurrence of an alternate alluvial source within the bar deposits. The final report is expected in early 2010.
The town has pursued surface water treatment facilities. It is anticipated that the town will request Level III funding in 2011 for alluvial well field development and other improvements.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required

84. **PROJECT:** **Lance Creek Water Supply**
LEVEL: I
SPONSOR: Lance Creek Water District
LOCATION: Niobrara County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	I	$100,000	2010

PROJECT DESCRIPTION:
The sponsor requested a study to identify solutions to remove or reduce arsenic levels in their current water supply. This study is considering treatment alternatives and will determine the feasibility and cost of each and provide comparisons. If necessary, a second phase will include a test well which would attempt to locate an additional groundwater source that could be used for blending with the existing groundwater source to reduce arsenic levels below the maximum contaminant level (MCL) for arsenic. This study will also include a cost analysis of replacing their existing storage tank which is approximately 70 years old, leaking, and has exceeded its useful life. The report will be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required at this time.

85. **PROJECT:** **Lander Master Plan**
LEVEL: I
SPONSOR: City of Lander
LOCATION: Fremont County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	$100,000	2009

PROJECT INFORMATION:

Present treatment, transmission, and storage components of the City of Lander's water supply system have been replaced, upgraded, and expanded in the last 5 years. Source supply options remain tenuous depending on drought conditions and distribution system capabilities. The Level I study was formulated to inventory, evaluate, and map the existing system via the creation of a GIS and by means of a calibrated hydraulic model to evaluate the adequacy of the transmission and distribution systems to meet efficient pressure and flow requirements. Although some historic data can be incorporated in the model, the existing data cannot support calibration of the model, therefore a contemporaneous data collection (hydrant flow/pressures, PRV operation, elevation surveys, etc.) and troubleshooting program is planned to provide an accurate hydraulic model for city planning. The City is therefore requesting an augmented budget for the master planning effort for a complete and calibrated hydraulic model to aid in operation and maintenance of the system.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends that the project be continued at Level I status with an increased appropriation of $85,000.

86. PROJECT: Laramie County Aquifer Study

LEVEL: I
SPONSOR: Laramie County Commissioners
LOCATION: Laramie County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	85	2007	I	$300,000	2009
Level I	33	2008	I	$ 25,000	2009

PROJECT DESCRIPTION:

The Board of Laramie County Commissioners requested a study of the aquifers underlying Laramie County and the southern portions of Platte and Goshen Counties. Due to the growth in the County, there is concern over the impact this growth is having on the aquifers. Several governmental and private entities including the County Commissioners make daily decisions and recommendations directly relating to the water supplies contained in these local aquifers. This study analyzed the state of the aquifers in Laramie County, and prepared a database, GIS coverage, a county wide ground water atlas, and a decision support system to assist the County Commissioners in managing growth in the county.

During the 2008 session, this study's budget was increased by $25,000 for a supplemental task. This task looked at surface water as a source to supplement groundwater shortages in Laramie County. All components of this project were completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

87. **PROJECT:** **Laramie County Archer Water Supply**
LEVEL: III
SPONSOR: Laramie County Commissioners
LOCATION: Laramie County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	99	2006	I	$438,114	2008
Level III	38	2009	I	$201,000*	2014

*67% grant

PROJECT DESCRIPTION:
The Laramie County Commissioners in cooperation with the Cheyenne Board of Public Utilities requested a water use study for an area extending approximately four miles east of Cheyenne which includes the Laramie County Archer Special Use District. This project had four parts to it: an area ground water analysis, a regional expansion of the Cheyenne Board of Public Utilities water system, a design and cost analysis of an Archer governmental complex water system, and a well drilling component.

Five test wells were drilled. One well was tested and plugged, two wells were completed as monitoring wells, and two wells were completed as production size test wells. The regional expansion portion of the project report, a pipeline from the Cheyenne Board of Public Utilities water system, was completed in 2008. The well drilling, area ground water analysis, and Archer County Complex water system infrastructure design and cost estimates were completed in 2007. From this data, the county applied for Level III funding to drill one additional production grade well, complete the wells, and construct the piping and storage infrastructure for the complex. The application was rejected pending the results of a county wide vote on a Capital Facilities Tax.

In 2008, the County Capital Facilities Tax passed and included funds for the Archer Special Use District. The Board of County Commissioners requested WWDC assistance to complete the water system. Due to the shortage of funds, the WWDO recommended only drilling a production well to complete the supply portion of the project.

In 2009, the sponsor received an appropriation of $201,000 or 67% of eligible project costs for a production well. The sponsor will provide the remaining 33% of funding from other sources and will purchase the four wells drilled during the Level II study for a price not to exceed 33% of the wells' actual costs.

The sponsor is in the process of securing engineering services for the project.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

88. **PROJECT:** **Laramie Transmission Pipeline**
LEVEL: III
SPONSOR: City of Laramie
LOCATION: Albany County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III-I	75	2008	I	$ 880,000*	2013
Level III-II	38	2009	I	$ 6,850,000*	2014

* 67% grant, 33% loan

PROJECT INFORMATION:

The City of Laramie diverts water from the Laramie River, conveys it through the Pioneer Canal to Lake Sodergreen, and then to the city water treatment plant. Water loss from the canal accounts for approximately 30% of the city's 14.31 cfs surface water right from the Laramie River. The 2008 appropriation provided funding to design a pipeline from the Laramie River to the water treatment plant, bypassing Pioneer Canal and Lake Sodergreen, allowing the City of Laramie to utilize their full surface water right. The 2009 appropriation provided funding to the city to construct the pipeline.

The city has received favorable bids for construction. Construction will begin in early 2010 with completion in mid 2011.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

89. PROJECT: Laramie Water Management Study

LEVEL: II
SPONSOR: City of Laramie
LOCATION: Albany County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	I	$330,000	2006
Level II	75	2007	I	$260,000	2008
Level II	66	2009	I	$100,000	2010

PROJECT INFORMATION:

The City of Laramie recently completed a study that investigated the long-term management of their Monolith Ranch Water rights. The study investigated the City's current water supply and made recommendations for more efficient use of the City's water resources. Laramie requested a Level II study from the 2005 Legislature to further refine the alternatives proposed by that study. Funding was approved for the Laramie Water Management Phase 1 Study.

The study provided several recommendations. Of those recommendations, the City requested additional funding to study the items listed below:

a. A GPS based survey of the city's fire hydrants and water valves.
b. Calibrate their hydraulic model and re-evaluate the future demand scenarios identified in the Phase 1 of the study.
c. Field tests to evaluate the potential to recharge the Spur Well field by pumping excess water from the Turner Wells.

In the summer of 2008, several meetings were held with the DEQ seeking a permit to inject Laramie drinking water at the Spur well field to test the recharge concept described above. In order to obtain an injection permit, DEQ required a Modflow model be prepared that encompassed a 65 mi^2 area around the well field, and lab analyses of core samples from the aquifer to determine if undesirable results could occur as a result of the injection. This was not included in the initial budget. As a result the City of Laramie requested additional funding in 2009 to complete the Aquifer Storage and Recovery Pilot Test for the Spur well field. Negotiations with DEQ continue for the injection permit.

The hydraulic modeling portion of this project has been completed. It reinforced the need for an additional supply to the south side of Laramie. Also, the South of Laramie Water and Sewer District requested an additional connection to the City of Laramie's system to provide redundancy should their existing water supply pipeline break or need maintenance. A construction cost estimate and a Level III project application was prepared to correct these issues. For additional information, please refer to the South Laramie Water Supply Project.

RECOMMENDED LEGISLATIVE ACTION:
No additional legislative action required.

90. PROJECT: LeClair Laterals Rehabilitation

LEVEL: III
SPONSOR: LeClair Irrigation District
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	7	2002	II	$50,000	2004
Level III	69	2003	II	$565,000*	2012

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:
The LeClair Irrigation District is rehabilitating a number of their laterals in an effort to continue their conservation program as outlined initially in the WWDC Level I Report: "Wind River Study: LeClair Canal and Riverton Valley (Wyoming No. 2 Canal Rehabilitation" March 1993. The study suggested piping of open-ditch laterals in a phased approach, allowing the District to implement improvements in a prioritized sequence. A subsequent 1994 Level III project began the process of installing the pipe with WWDC financing the cost of materials and the district providing the labor for installation.

A Level II engineering study was recently completed to update project costs from the 1993 study and to include seven additional laterals. This 2002 study recommended the installation of pipe in twelve open laterals. The 2003 Legislature authorized Level III funding for the lateral rehabilitation, providing for the reimbursement of project materials. The project was delayed due to difficulty in obtaining easements. The District requested and received a time extension to 2012 to allow for the completion of the project.

The District has completed the design and and has obtained the necessary easements. Construction is performed during the non-irrigation seasons following canal shut off in September.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

91. PROJECT: Little Snake Canals

LEVEL New Application
SPONSOR: Savery-Little Snake River Water Conservancy District
LOCATION: Carbon County
PROGRAM: Rehabilitation

PROJECT INFORMATION:
The District is experiencing seep related bank sloughing and seep issues for portions of the First Mesa, West Side, and State Line canals and have requested a Level II Study to review alternative solutions. The District also wishes to install a new parshall flume to measure flows in the State Line Canal. The Level II Study would review locations for installation, provide preliminary design drawings, and size the facility to assure the flume can accurately measure the canal's flow variability.

Canal bank failures related to seep or sloughing may potentially interrupt the delivery of irrigation water. Although it may be possible to address bank failures on a short term basis, a long term solution identified in a Level II Study would keep related maintenance costs to a minimum and provide greater certainty that water service will not be interrupted. The Level II study will also determine the site best suited for wasting water back to the Little Snake River.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the Rehabilitation Program as a Level II study with an appropriation of $100,000.

92. PROJECT: Little Snake Diversions

LEVEL New Application
SPONSOR: Savery-Little Snake River Water Conservancy District
LOCATION: Carbon County
PROGRAM: Rehabilitation

PROJECT INFORMATION:
The District requested funding to re-construct the First Mesa, Baggs Canal and the Ready diversion structures. A Level III project is traditionally the subject of a previous Level II study. However, field reconnaissance by WWDO staff and photos submitted by the District demonstrate that the rehabilitation measures are needed to provide greater certainty that water may be delivered to member ranchers and farmers.

Two of the three diversions are constructed of sheet pile. Operation of these sheet pile facilities has proven to be problematic. These diversions were designed to use wooden planks to dam the water to an elevation sufficient to divert water into the respective canals. Debris catches on the sheet pile and the wooden planks and breaks the planks. Once the planks are broken, earth moving equipment is used and to reconfigure the stream bottom and to add large boulders in rock vein or rock berm configurations at an elevation high enough to allow water to be diverted into the canal. These temporary diversion structures require constant maintenance throughout the irrigation season. The District would also like to rehabilitate the Ready diversion, which was not constructed with sheet piling but needs improvements.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the Rehabilitation Program at a Level III status with an appropriation of $990,000. The recommended funding will be 67% grant and 33% loan at an interest rate of 4% and a term of 20 years.

93. PROJECT: Little Snake River Small Dams and Reservoirs Phase II

LEVEL: III
SPONSOR: Little Snake River Conservation District
LOCATION: Carbon County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	88	2002	I	$465,000*	2013
Level III	105	2006	I	$167,000**	2013
Level III	75	2008	I	$220,000**	2013

* 60% grant, 40% Loan (6.0%, 25 years)
** 67% grant, 33% Loan (4.0%, 25 years)

PROJECT INFORMATION:
In 1999, the legislature authorized $215,000 for the purpose of building from one to twelve small dams and reservoirs to improve range and grazing conditions within the Conservation District's service area. The total estimated volume of water impounded by the twelve reservoirs totals approximately 2,636 acre-feet and will service an area of 9,780 acres of rangeland. With the first appropriation of $215,000 and an additional appropriation of $50,000 provided in 2000, two small dams were completed. These activities were completed under Phase I of the program.

The 2002 Legislature authorized an additional $500,000 (60% grant/40% loan) to implement Phase II of the program and continue the design and construction of four additional dams. The Brown's Hill 21 dam was completed during the fall 2004. The Garden Gulch 32 (Deep Gulch) dam was constructed during the summer of 2006.

In 2006, the District requested that three additional dam and reservoir sites referenced in the original 1998 Level II study be added to the list for WWDC funding eligibility. These sites are believed to be more likely to receive a permit and receive BLM authorization to construct. In addition the District requested that the funding appropriation be restored to the original level of $500,000 to allow the construction of the three additional small dams. The 2006 legislature authorized the additional funds of $167,000. The supplemental funding package approved by the legislature in 2006 increased the grant funding from 60% to 67% of total project costs and decreased loan funding from 40% to 33%.

In 2008, the legislature approved adding Grieve Reservoir to the list of projects, reduced the 2002 appropriation from $500,000 to $465,000 and increased the 2006 appropriation from $167,000 to $387,000 for a net increase of $185,000 to cover design and construction costs. Presently, there is $405,365 available to complete the projects. In 2009, the District requested that Coal Gulch Dam be added to the list of projects approved for construction.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the Coal Gulch Dam project be added to the list of approved projects to be funded within the existing appropriations.

94. **PROJECT:** **Little Snake Supplemental Storage**
LEVEL: Level II
SPONSOR: Savery-Little Snake Water Conservancy District
LOCATION: Carbon County
PROGRAM: Dams and Reservoirs

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	33	2008	III	$250,000	2010

PROJECT INFORMATION:
In 2008, the Savery-Little Snake River Water Conservancy District (District) and the Little Snake River Conservation District requested an appropriation of $15 million for Level III funding to finance construction of a dam and reservoir to provide supplemental late season irrigation water to lands within the Little Snake River basin. The request was in response to the un-met demand for supplemental irrigation water in the Little Snake River basin. However, the WWDC recommended embarking upon a Level II Study program.

The District cited recent sales of 13,786 acre-feet of High Saver Reservoir storage water to provide late season irrigation water to appropriators along Savery Creek and the Little Snake River below the Savery Creek confluence. However, pursuant to the then existing water sales contract between the State of Wyoming and the District, the amount of water that could be purchased was limited to 12,000 acre-feet. Whenever demand (sales) exceeds supply (amount of storage), the shortage is prorated among the District's customers. In their application, the District stated that irrigators, during the subscription period for High Savery Reservoir, would have purchased another 2,850 acre-feet of water, in addition to the 1,786 acre-foot in excess of the 12,000 acre-foot High Savery contract limit if it were available. Therefore, the District suggests that there is an immediate demand for 4,636 acre feet per year.

The District's membership consists of 20,000 acres in the Little Snake River drainage downstream from the Little Snake River/Savery Creek confluence and the Savery Creek drainage. With additional storage located above this confluence, the District may be able to serve additional users, which would require the District to amend their service area boundary. Storage constructed above the Savery Creek Little Snake River confluence could also serve as a supplemental supply for existing District members.

In 2008, the Legislature appropriated funds for a Level II Study, which focused on development of the purpose and need statement and screening criteria of potential reservoir sites. The sites screened in the study are located in the Savery Creek drainage and drainages upstream of the Little Snake River/Savery Creek confluence.

As a result of the ongoing effort, the West Fork Battle Creek site has been recommended for further analysis by the WWDC and the District.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends an appropriation of $300,000 from water development account III to conduct a Level II, Phase II analysis of the West Fork Battle Creek Site.

95. **PROJECT:** **Lovell Rehabilitation 2009**
LEVEL: III
SPONSOR: Lovell Irrigation District
LOCATION: Park and Big Horn County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	38	2009	II	$432,000*	2014

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:
The Lovell Irrigation District received SLIB grants to replace an open segment of the Bench Lateral with pipe. This segment crosses under Wyoming Highway 310 and parallels it immediately outside the right-of-way. The sponsor received grant funds from WWDC to purchase materials. The sponsor will fund the engineering, land rights, and permits, and will contract most of the labor, equipment and other resources necessary to construct the project.

The design is nearly complete with construction anticipated to be completed prior to the 2010 irrigation season. When complete, this project will facilitate delivery of water and reduce seepage and evaporative losses in this segment.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

96. **PROJECT:** **Lovell Transmission Pipelines**
LEVEL: III
SPONSOR: Town of Lovell
LOCATION: Big Horn County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	75	2008	I	$1,299,800*	2013

* 67% grant

PROJECT INFORMATION:
Due to the deteriorating conditions of the water and sewer mains throughout Lovell, the Town officials decided to rebuild the entire water and sewer systems over a seven-year period. Phase 1 and 2 of this project are currently being pursued, but are not eligible for WWDC funding.

The estimated construction cost for Phase 3 of this project is $10,418,291. Funding for the non-WWDC project eligible portions of the project is being provided by an RUS loan and grant, SLIB grants, and the Town. The Town of Lovell received a 67% WWDC grant of $1,299,800 for the design, permit procurement, project land procurement, construction engineering, and construction of the project. This WWDC grant is only for the portion of the project that enlarges and replaces the water transmission lines. The total project budget is $1,940,000. This construction of project will be phased into the total system improvements.

The sponsor's engineer completed the project design in mid-2009, received favorable bids and the project is currently under-construction. The project is anticipated to be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

97. **PROJECT:** **Lucerne Water Supply**
LEVEL: New Application
SPONSOR: Lucerne Water & Sewer District
LOCATION: Hot Springs County
PROGRAM: New Development

PROJECT DESCRIPTION:
It is anticipated that by mid to late 2010, the Bighorn Regional Joint Powers Board [BHRJPB] will commence construction of an 8" pipeline from the Washakie County line (Winchester) to the Town of Kirby. With completion, Lucerne will discontinue its use of water from the Town of Thermopolis and will begin use of water from the Big Horn Regional Project. This conversion will require changes in operation and maintenance and, perhaps, reconfiguration of some system components.

This study will also explore the feasibility of incorporation of rural users located on the east bank of the Big Horn River along Black Mountain Road (State HWY 172). This area was studied in a previous WWDC report (Hot Springs Rural – Worland Pipeline, Level II, 2004).

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the project be incorporated into the New Development Program at Level II status with an appropriation of $150,000

98. **PROJECT:** **Lusk Well**
LEVEL: III
SPONSOR: Town of Lusk
LOCATION: Niobrara County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	121	2007	I	$415,000*	2012

*67% grant, 33% loan

PROJECT INFORMATION:
The Town of Lusk anticipates an impact on water and waste water utility demand as a result of the planned expansion of the Women's Center, operated by the Wyoming Department of Corrections. The Town requested WWDC funds to drill a new well to meet the increased water demands. In addition, the Town requested funds to replace and expand the existing automated control system.

In 2008, the project was designed and water well permits were acquired. Construction of the project has begun and is anticipated to be completed by May 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

99. PROJECT: Middle Piney Reservoir

LEVEL: II
SPONSOR: Middle Piney Irrigation District (entity to be formed)
LOCATION: Sublette
PROGRAM: Dams and Reservoirs

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2006	III	$200,000	2009
Level II	66	2009	III	$500,000	2011

PROJECT INFORMATION:
Construction of Middle Piney Dam was completed in 1940 with a permitted capacity of 4,201 acre-feet and a September 4, 1919 priority date. It is located on Middle Piney Creek in the Bridger National Forest, west of Marbleton and Big Piney. The existing dam embankment is situated along the upstream margin of a massive landslide complex that comprises the right abutment of the dam. The landslide is an ancient feature that originated on the mountain slope southeast of the current dam site and failed towards the north across the valley bottom, forming a natural lake. The dam takes advantage of the partial valley fill created by the landslide.

The United States Forest Service (USFS) has owned the reservoir since 1998. Due to the dam being classified as a high hazard structure because of its potential for loss of life or property in the event of failure and noted seepage and outlet works problems, USFS maintains the control gate in the open position and does not use the historic storage. USFS is planning on breaching the embankment to remove any liability, but has indicated they may be willing to pass ownership of the dam to another entity.
The purpose of the Level II study was to determine the viability of local irrigators utilizing the dam for irrigation storage and potentially acquiring the reservoir from the USFS. The Level II study makes the following recommendations:

1. Remove the existing embankment and outlet works due to their dilapidated and ineffectual condition.
2. Construct a new earthen dam at the original dam's location.
3. Construct new outlet works with the capacity to pass required irrigation flows under low head conditions and all floods up to the 100-year level without use of the emergency spillway.
4. Construct the intake in such a manner to prevent debris buildup and plugging.
5. Construct the emergency spillway to pass the Probable Maximum Flood and discharge flow away from the dam to secure its structural integrity.
6. Incorporate seepage cutoff measures into the new embankment and landslide abutment to increase storage efficiency.

The study also addressed the economic benefits that would potentially accrue to irrigators, the regional economy, and the State of Wyoming from construction and operation of the project. The primary direct benefit of the project will be the annual production of additional stored irrigation water for use by irrigators along Middle Piney Creek below the reservoir.

The additional farm and ranch income generated by this irrigation water will also have a stimulating, or "multiplier effect", on the regional and state economies. Other potential project effects include recreation and the possibility of mitigating occasional flood events below the reservoir site. By and large, it was concluded that the project would have a positive benefit/cost ratio.

Local irrigators have been presented with the findings of the study and are currently organizing to form a public entity. Additional funding was received following the 2009 legislative session to continue the study once the public entity is formed. In the interim, work is underway addressing permitting issues and ownership issues with the USFS. If this proves favorable and the sponsor develops a legal entity, the work could include permitting and mitigation, surveying, stream gaging, drilling and final geotechnical design, final engineering design and specification preparation, legal fees, and acquisition of access and right of way.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

100. PROJECT: Midvale Canal Rehabilitation

LEVEL: III
SPONSOR: Midvale Irrigation District
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	125	2003	II	$300,000	2007
Level II	34	2004	II	$ 75,000	2007
Level III	121	2007	II	$402,000	2012
Level III	38	2009	II	$230,000*	2013

*100% grant for materials, this appropriation replaces earlier Level III appropriation, which resulted in a reversion of $172,000 to the Water Development account.

PROJECT INFORMATION:
The Wyoming Water Development Commission, on behalf of the Midvale Irrigation District (MID), conducted an extensive master plan from which rehabilitation needs on Midvale Irrigation District were identified and developed into a long range water conservation program. All conveyance system components were evaluated and assessed with facilities prioritized in a schedule of project rehabilitation implementation.

This is the initiation of an aggressive, long range program that will address those facilities in poor or failing condition that need to be rehabilitated to ensure delivery of irrigation water to 880 landowners on 74,000 acres. This conservation program will not only have long range local, regional, and state economic benefits but will also provide for significant water conservation benefits that will address regional water supply issues.

In order to initiate the conservation program, the district requested and received funding for engineering in 2007. This funding was for the engineering design for the three top priority projects listed. During 2008, the District had some personnel changes and determined that they would like to continue this project as a materials only project. This requested was granted and now the construction will be performed with district resources. Engineering,

permitting, and other project costs will also be borne by the district. During 2009, the design of improvements for the structures in the canal was completed. The district is currently working on the construction of the structures. The canal work should be completed by the spring of 2011.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

101. PROJECT: Midvale Irrigation District Conservation/Automation

LEVEL: III
SPONSOR: Midvale Irrigation District
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	125	2003	II	$300,000	2007
Level II	34	2004	II	$ 75,000	2007
Level III	105	2006	II	$542,700	2010

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:
The Midvale Irrigation District, as a result of rehabilitation opportunities identified in the Level II Conservation Program, applied for a Level III construction project to automate existing facilities within the storage, diversion, and conveyance systems and enhance water delivery monitoring. Installation of these improvements will promote water conservation through more efficient water management and delivery. Automation of existing facilities may reduce operational waste of water by as much as 22,500 acre feet.

During 2008, the District had some personnel changes and was focused on completing the Hidden Valley Project. Therefore, this project has not progressed as planned. However, the District reactivated the project in 2009 and has completed the design of the SCADA system and is currently working to install it. Other smaller projects have been designed and are in the process of being constructed, including replacement of gate stems and gate modifications or replacement to accommodate the automation.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

102. PROJECT: Midvale Rehabilitation 2010

LEVEL: New Application
SPONSOR: Midvale Irrigation District
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	125	2003	II	$300,000	2007
Level II	34	2004	II	$ 75,000	2007

PROJECT INFORMATION:
An irrigator on the Midvale system received federal cost share money to replace a portion of an open ditch (Wyoming Lateral 44.1) with a pipeline and to install a center pivot sprinkler system. The Natural Resources Conservation Service (NRCS) provided technical expertise for the project. Because Wyoming Lateral 44.1 serves other irrigators, the Midvale Irrigation District provided resources for a larger intake structure and a larger diameter pipeline. This request is for grant funding for 100% of invoiced materials to convert the remaining 25,000 feet of Wyoming Lateral 44.1 to pipe. The sponsor plans to utilize the NRCS for engineering services. Because the NRCS designed the completed portion of this lateral and made design accommodations for this proposed project, the NRCS already has developed the design and survey information necessary to complete this proposed project.

The construction will be performed with district resources at district cost. Engineering, permitting, and other project costs will be borne by the district. The district will meet these obligations from its operating budget and has successfully financed similar projects with WWDC. The project should take one fall/winter season to complete.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated at Level III status into the Rehabilitation Program with an appropriation of $263,000. The financing plan includes a 100% grant to be used only for the purchase of invoiced materials. The sponsor is responsible for the remainder of the project costs.

103. PROJECT: Mile-Hi Water Supply

LEVEL: III
SPONSOR: Mile-Hi Improvement and Service District
LOCATION: Natrona County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	33	2008	I	$75,000	2010
Level III	38	2009	I	$1,015,360*	2014

* 67% grant, 16.5% loan, 16.5% sponsor's responsibility

PROJECT INFORMATION:
Residents along Zero Road (including Six Mile, Mile Hi, and Horseshoe Roads) located to the west of Mills have limited or no water supply due to falling water levels in their domestic wells. Some of the residents are hauling water to meet their daily needs. Residents in the area were interested in a stable water supply and wished to establish a rural domestic water system to be served as a wholesale customer of the Central Wyoming Regional Water System (CWRWS).

A Level II study was undertaken in 2008 which evaluated the feasibility of establishing a rural domestic water supply system. This study included service area delineation, current and projected water demands, conceptual designs, an environmental assessment, cost estimates and an economic analysis. The District requested Level III construction funds for this pipeline project as they had received a "willingness to serve" from the CWRWS, a letter of support from the Natrona County Commissioners, unanimous support from the

residents of the District to authorize assessments for construction of the proposed water system, and approval for the Wyoming Office of State Lands & Investment Board (SLIB) loan needed for the project.

Construction of this project has begun with completion expected in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

104. PROJECT: Moorcroft Madison Well Water Supply

LEVEL: III
SPONSOR: Town of Moorcroft
LOCATION: Crook County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	36	2000	I	$355,000	2002
Level II	86	2001	I	$145,000	2002
Level III	69	2003	I	$2,250,000*	2008
Level III	75	2008	I	$3,865,900**	2011

*60% grant
**67% grant, replaces 2003 appropriation of $2,250,000.

PROJECT INFORMATION:
In 1992, a Level I study conducted for the Town of Moorcroft recommended construction of a new storage tank and connection piping collection system. The study also recommended that both a Lance/Fox Hills Formation well and a Madison Formation well be developed. In 1994, after the conclusion of a Level II study, the town constructed the new storage tank, system piping, and drilled a new Lance/Fox Hills test well. In 2001, the WWDC completed the Madison test well to a total depth of 3,750 feet. The well produced 600 gpm during the pump test.

The project received a construction appropriation of 60% grant in 2003. In 2008, the appropriation was changed to 67% grant and increased to $3,865,900. The balance of project funding has been acquired from specific purpose tax funds and SRF loan funds. The sponsor will also make amortized loan payments to WWDC for its share of the drilling costs of the Madison well completed in WWDC's Level II study.

When complete, this project will provide the sponsor with a significantly improved water supply. Design has begun and construction is expected to start in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

105. PROJECT: Northern Arapaho Ground Water

LEVEL: Level II
SPONSOR: Northern Arapaho Tribal Business Council
LOCATION: Fremont County, Wind River Indian Reservation
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	34	2004	I	$700,000	2006
Level II	99	2006	I	$605,000	2009
Level II	33	2008	I	$685,000	2010

PROJECT DESCRIPTION:

The Ethete area water system (operated by Northern Arapaho Utilities) relies solely upon highly variable (both in quantity and quality) surface water diverted from the Little Wind River. Low flows, due to irrigation demands in the summer and natural low flows in the winter, often leave Arapaho Utilities unable to divert enough water to meet domestic water needs. High turbidities during runoff and after the South Fork II fire (June 2002) have also caused significant operational problems, which reinforces the need for a reliable ground water source.

In 2004, WWDC funding was acquired to investigate the feasibility of developing available groundwater resources, drill test wells at locations identified in the feasibility study, and develop a master plan for Northern Arapaho Utilities to prioritize needed infrastructure improvements. Additional funding was requested in 2006 to drill a Madison formation well.

In 2007, the WWDC recommended the project be continued in the New Development Program at Level III with an appropriation of $3,200,000. The legislature approved the appropriation at 67% grant and 33% loan. The proposed Level III project included construction, pipeline, materials, and appurtenances necessary for incorporation of the Level II test well into the existing NAU water supply system that serves the community of Ethete and the surrounding area. Upon completion of the Madison well on Sage Creek Anticline in March 2007, it was determined that flows and water quality would not meet the minimum requirements for the sponsor's needs and the well was subsequently plugged and abandoned. In 2008, Level III funds were reverted and the WWDC and NAU began consideration of other options.

Secondary source supply exploration was deemed feasible from two additional aquifer systems. The Wind River Formation is the source supply to the City of Riverton, Town of Shoshoni, and the community of Arapahoe, and therefore held promise in its proximity to Ethete. The other alternative was the broad alluvial sand/gravel sequence identified in the valley of the Little Wind River. Test drilling of the Wind River Formation was completed in late 2008 and test drilling of Little Wind River alluvial deposits occurred in summer of 2009. Adverse water quality conditions (high radionuclides – Ra 226 + Ra 228) precluded development of the Wind River Formation aquifer, but adequate water quantity and quality conditions were discovered in the alluvial well test wells just north of the Fremont County District 21 Elementary/Middle School in the valley of the Little Wind River.

RECOMMENDED LEGISLATIVE ACTION:

See Ethete Water Supply Project

106. PROJECT: North Wright Transmission Line

LEVEL: III
SPONSOR: Wright Water & Sewer District
LOCATION: Campbell County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	147	2005	I	$269,000	2012
Level III	121	2007	I	$165,000	2012

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT DESCRIPTION:
The North Side Transmission Line is necessary to increase fire flow, meet peak water demands, and provide redundancy for the Health Clinic, the local mall and the north side of the district.

The project consists of the installation of a 12" transmission pipeline, connections to the existing distribution system and miscellaneous related items. The District constructed the transmission pipeline with district personnel. The district personnel have experience with potable water pipeline installation.

Initial funding for the project was approved by the 2005 legislature. By the middle of 2006, it became apparent that the project could not be constructed with the funds available due to increased material costs. Therefore, additional funding was provided during the 2007 session.

In 2008, the first phase of this projected was completed, and the sponsor received approval to enter the second phase of the project. Phase 2 of the project was completed in 2009. The project will be closed out in early-2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

107. PROJECT: Nowood River Storage

LEVEL: I
SPONSOR: Nowood Citizens Advisory Group
LOCATION: Washakie County and Big Horn County
PROGRAM: Dams and Reservoirs

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	III	$300,000	2010

PROJECT INFORMATION:
The Nowood River Steering Committee is requesting a Level II Storage Feasibility Study to further explore storage opportunities identified in the Nowood River Storage/Watershed Level I Study and to determine the best and most beneficial water storage system for the Nowood River Watershed area. The additional study will focus primarily on hydrologic analysis and site investigations to determine the most viable storage locations. The Nowood River Watershed is inefficiently used and under utilized by a wide variety of interests because it does not have adequate storage balanced with consistent stream flows. Agricultural operations, as well as fish and wildlife, have been negatively impacted in the watershed, much like many other parts of the state, by severe drought conditions which have led to limited late season flows and calls on the river. At the same time, ample, and at times excessive, spring runoff flows downstream unexploited as a result of the untimely thaw and the magnitude of the runoff. The sponsor's objective is to develop and/or expand

current water storage in the Nowood Watershed to collect the excess spring runoff and allow for controlled, consistent releases, thus providing agricultural benefits through improved management and late season irrigation, potential municipal benefits through reduction of channel erosion and flooding in area communities, as well as environmental and recreational benefits through the enhancement of fisheries and wildlife habitat.

RECOMMENDED LEGISLATIVE ACTION:
The WWDO recommends that the project be advanced to Level II status in the Dams and Reservoir Program with an appropriation of $250,000. This recommendation originated from the Nowood River Watershed Level I study which was funded during the 2008 legislative session.

108. PROJECT: Nowood River Watershed

LEVEL: I
SPONSOR: Nowood Citizens Advisory Group
LOCATION: Washakie County and Big Horn County
PROGRAM: Dams and Reservoirs

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	III	$300,000	2010

PROJECT INFORMATION:
Citizens of the Big Horn Basin requested a Level I Reconnaissance/Watershed Study to determine the best and most beneficial water storage system for the Nowood River Watershed area. It is a watershed that is inefficiently used and under utilized by a wide variety of interests because it does not have adequate storage balanced with consistent stream flows. Agricultural operations, as well as fish and wildlife, have been negatively impacted in the watershed, much like many other parts of the state, by severe drought conditions which have led to limited late season flows and calls on the river. At the same time, ample, and at times excessive, spring runoff flows downstream unexploited as a result of the untimely thaw and the magnitude of the runoff. The sponsor's objective is to develop and/or expand current water storage in the Nowood Watershed to collect the excess spring runoff and allow for controlled, consistent releases, thus providing agricultural benefits through improved management and late season irrigation, potential municipal benefits through reduction of channel erosion and flooding in area communities, as well as environmental and recreational benefits through the enhancement of fisheries and wildlife habitat.

Level I funding was obtained through the Dams and Reservoirs Program during the 2008 legislative session. The project is currently underway and is scheduled for completion by sometime in early 2010. At this point, enough promising information has been gathered on storage opportunities in the watershed that the sponsor has applied for a Level II feasibility study.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required at this time.

109. PROJECT: Owl Creek Rural Water Supply

LEVEL: II
SPONSOR: Owl Creek Water District
LOCATION: Hot Springs County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	I	$75,000	2008
Level II	33	2008	I	$75,000	2009

PROJECT DESCRIPTION:

The 2008 Legislature appropriated $75,000 to complete a Level II study to define the interested water users and design a water supply system that would satisfy the needs of potential water users northwest of the town of Thermopolis. The Level II study defined the water users interested in participating in a Level III project and completed a design to bring water from Thermopolis to these water users. The water users are seeking funding to build two of the four phases of the project designed in the Owl Creek Water Supply, Level II study. The two phases to be built will bring water from a new tank being constructed under the Thermopolis Storage Replacement and Rehabilitation Project. The transmission pipeline will split at Highway 120 (Meeteetse Highway) with one transmission line heading back towards Thermopolis to accommodate users at the Sage Valley subdivision and other users along the highway. The second transmission line will head toward Meeteetse, following the highway, and end near the Hamilton Dome road. There will be need for additional storage and pumping as part of the project. The Town of Thermopolis has documented their interest in supplying the district with water.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends the project be incorporated into the New Development Program at Level III status with an appropriation of $3,182,500. This appropriation will serve as a 67% grant with the remaining funds to be provided by the sponsor.

110. PROJECT: Pathfinder Modification Project

LEVEL: III
SPONSOR: State of Wyoming/ United States
LOCATION: Natrona County
PROGRAM: Dams and Reservoirs

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	105	2006	III	$8,500,000*	2012

* This appropriation is being reserved for construction. Permitting, design, and other issues related to the project have been completed using authorizations and funding described in W.S. 99-1-103(d) (Deer Creek Project) and Chapter 83, 2002 Session Law (Nebraska v. Wyoming settlement implementation).

PROJECT INFORMATION:

The purpose of the Pathfinder Modification Project is to recover approximately 54,000 acre-feet of space in Pathfinder Reservoir that has been lost to silt/sediment accumulation. This 54,000 acre-feet space has been divided into two separate accounts, an Environmental

Account and the Wyoming Account. Water which accrues to the Environmental Account (approximately 34,000 acre-feet) will be dedicated to the resolution of endangered species issues in the Platte River Basin, while water accruing in the Wyoming Account (20,000 acre-feet) will be used to benefit Wyoming. The space lost due to silt/sediment accumulation will be recovered by increasing the height of the existing emergency spillway by 2.39 feet.

Project permitting is near completion. The plans and specifications have been completed. After the contract between the State of Wyoming and the United States for operation of the project has been finalized, the construction schedule will be finalized and construction bids will be solicited. The project is slated for construction during the 2010 and 2011 construction seasons.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC is recommending that a Pathfinder debt service account be established to fund the state's continued operation, maintenance, replacement and mitigation obligations for the project. The initial funding for the account would come from the following sources: 1) The WWDC is proposing that the Deer Creek appropriation be reduced from $13,500,000 to $5,250,000 and the unspent balance of the $5,250,000 appropriation as of July 1, 2010, (approximately $3,000,000) be transferred to the debt service account and 2) A transfer of $2,250,000 from the Attorney General's Office from that portion of the budget for the implementation of the Nebraska v. Wyoming settlement that was provided for purposes of mitigation for the Pathfinder Modification Project.

111. PROJECT: Pine Bluffs Deep Well 2009

LEVEL: III
SPONSOR: Town of Pine Bluffs
LOCATION: Laramie County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	8	1995	II	$84,576	
Level III	59	1996	II	$132,723	
Level III	96	2000	I	$1,185,639	
Level III		2003	I	$212,043	
Level II	34	2004	II	$405,770	
Level III	105	2006	I	$325,000	2010
Level III	90	2008	I	$110,240	2012
Level III	38	2009	I	$583,570*	2014

* 67% grant

PROJECT INFORMATION:

The purpose of this Level III project is the drilling, completion, and testing of a new 800 foot deep (Lance/Fox Hills Formation) municipal production well and its incorporation into the existing municipal system. In 2003, a test hole was drilled adjacent to the proposed location and recently a municipal Lance/Fox Hills well has been successfully incorporated into the existing municipal system. In 2009, this project received a 67 % grant for the design, permit procurement, project land procurement, construction engineering, and

construction of the project. The sponsor has secured the services of an engineer and the engineer has started the design. The design is anticipated to be completed in mid-2010 with construction to follow.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

112. PROJECT: Pine Bluffs Lance, Fox Hills Well
LEVEL: III
SPONSOR: Town of Pine Bluffs, Incorporated Municipality
LOCATION: Laramie County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	8	1995	II	$84,576	
Level III	59	1996	II	$132,723	
Level III	96	2000	I	$1,185,639	
Level III		2003	I	$212,043	
Level II	34	2004	II	$405,770	
Level III	105	2006	I	$325,000*	2012
Level III	90	2008	I	$110,240*	2012

* 67% grant, 13.6% loan, 19.4% sponsor

PROJECT INFORMATION:
Under the 2004 Level II study a deep test well was drilled on the north edge of Pine Bluffs. This well provided quality and quantity information on two water bearing zones. The Town requested a Level III project to purchase and complete the well and place it into the Town's water system. In 2006, the sponsor received Level III funding. In 2008, additional funding was provided to allow for an upgrade of an existing well.

The Lance, Fox Hills Well was completed and incorporated into the municipal system in 2008. The sponsor is in the process of evaluating the upgrade of the existing well and the entire project is anticipated to be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

113. PROJECT: Pine Bluffs Master Plan
LEVEL: I
SPONSOR: Town of Pine Bluffs, Incorporated Municipality
LOCATION: Laramie County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	10	1994	I	$46,518	
Level I	33	2008	I	$80,000	2009

PROJECT INFORMATION:
The Town of Pine Bluffs depends solely on ground water supplied from shallow wells completed in various geologic formations. There have been several groundwater supply projects which reviewed and constructed portions of the Pine Bluffs supply and distribution systems in the past. Most of the supply wells resulting from these projects are currently experiencing problems due to drought conditions. The declines in static water levels have caused significant decreases in yields or complete loss of production in all of their current wells. New sources of supply need to come from different formations, formations outside of the current withdrawal area, or surface water.

A deep test well drilled in February 2003 (WWDC Ground Water Exploration Grant Program) showed potential water sands at various intervals to a 995' total depth. A Lance/Fox Hills test well drilled in 2004 provided quality and quantity information on two water bearing zones at the depths of 700 and 1700 feet. The deeper 1700 foot zone produced water of poor quality and quantity and was sealed off. The upper 700 foot zone produced approximately 200 gallons per minute of water with acceptable quality.

Due to this continuing static water level decline in the Town's wells, the Town requested and received funding for a 2008 Level I Master Plan that was completed in 2009. This master plan identified alternative water supply sources, studied their storage and conveyance facilities, analyzed usage rates, and suggested long term solutions for their water supply needs.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

114. PROJECT: Pinedale Master Plan

LEVEL: I
SPONSOR: Town of Pinedale
LOCATION: Sublette County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	85	2007	I	$210,000	2009

PROJECT INFORMATION:
The 2007 Legislature appropriated $210,000 for the completion of an updated master plan for the Town of Pinedale. The master plan summarizes previous studies, identifies service areas - taking into consideration land use planning, determines water demand, evaluates the existing water supply, creates a municipal GIS and a hydraulic model, and identifies potential projects for Pinedale to improve their water supply system and accommodate responsible growth in areas in and around Pinedale. Early in the planning process, it became apparent that two new transmission pipelines were needed. (See Pinedale Pipelines.) It is anticipated that the master plan will be completed in early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

115. PROJECT: Pinedale Pipelines

LEVEL: III
SPONSOR: Town of Pinedale
LOCATION: Sublette County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	85	2007	I	$210,000	2009
Level III	38	2009	I	$7,900,000	2014*

* 67% grant, 33% loan

PROJECT INFORMATION:

The Pinedale Master Plan identified that the east and west transmission lines should be priority projects. The Pinedale east transmission line project will replace one of the existing water supply transmission lines to increase water capacity, and improve water pressure and fire flow capability. The west transmission line will connect two existing transmission lines to create a looped system which will improve water delivery, pressure, and fire flows.

The anticipated budget for both pipelines is $11,470,000. Due to funding constraints, the WWDC had to phase the funding for the project. The 2009 Legislature appropriated $7,900,000 for the construction of the east transmission pipeline and design of the west transmission pipeline. Issuance of a U.S. Forest Service Special Use Permit for the east transmission line was obtained in November 2009. Design of this line was completed in December 2009 and a contract for the construction is anticipated to be awarded by April 2010.

The Town of Pinedale has requested and WWDC has recommended that the remaining budget ($3,570,000) be approved during the 2010 Legislature to allow for the construction of the west transmission pipeline.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends that the project Level III appropriation be increased from $7,900,000 to $11,470,000 or an increase of $3,570,000. The financing plan would remain a 67% grant and a 33% loan with an interest rate of 4% and a term of 30 years.

116. PROJECT: Pine Haven Master Plan

LEVEL: I
SPONSOR: Town of Pine Haven
LOCATION: Crook County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	$100,000	2010

PROJECT INFORMATION:

The Town of Pine Haven requested a Level I Master Plan to include system modeling and an evaluation of their current water system including expanded service areas, water supply source, water storage, population projections, water rate analysis, leak detection and cost

estimates. Planning is necessitated by growth due to regional energy development. Population growth has taxed the water infrastructure. The report will be completed in the spring of 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

117. PROJECT: Pine Haven Transmission 2006

LEVEL: III
SPONSOR: Town of Pine Haven
LOCATION: Crook County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	105	2006	I	$348,000*	2010

*67% grant, 33% loan

PROJECT INFORMATION:
The "Town of Pine Haven Water System Master Plan," completed in 2000, recommended that a transmission pipeline be installed connecting the north and east side of town. This project includes the purchase and installation of 5,000 feet of 8-inch pvc pipe.

The project has been delayed due to problems in acquiring easements from the Bureau of Reclamation and others. The contractor was retained in the fall of 2009 and construction is anticipated to be complete in spring 2010. The proposed project will provide system redundancy, increased fire flows, and stabilized pressures.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the reversion date for the project appropriation be extended to 2012.

118. PROJECT: Pioneer Rehabilitation

LEVEL: II
SPONSOR: Pioneer Water & Sewer District
LOCATION: Natrona County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	66	2009	II	$75,000	2010

PROJECT INFORMATION:
The Pioneer Water and Sewer District is a large rural water district located northwest of Casper which is served by the Central Wyoming Regional Water System (CWRWS) as a wholesale customer. The system is experiencing significant repairs due to aging infrastructure. A portion of the District's transmission line along 10 Mile Road is constructed of 10" ductile iron and has experienced two breaks within the last two years due to age and corrosion, in spite of cathodic protection on the pipeline. This section of the pipeline serves approximately half of the users on the Pioneer system and is the sole

transmission line for water supply to the 33 Mile Road Improvement and Service District. More than 200+ taps are affected by the problems with the pipeline. System rehabilitation opportunities and costs are being assessed through the current Level II feasibility study. This project is ongoing and is scheduled for completion in late 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

119. PROJECT: Platte River Basin Plan - Groundwater

LEVEL: Level I
SPONSOR: WWDC
LOCATION: Platte River Basin
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	I	$250,000	2010

PROJECT DESCRIPTION:
In 1999, the legislature initiated the Statewide Water Planning Process with its appropriation to fund the Bear and Green River Basin Plans. Those plans were completed in January 2001. The 2000 Legislature appropriated funding for the Powder/Tongue River Basins and the Northeast Wyoming River Basins Plans. Those plans were completed in February 2002. The next basin plans undertaken were the Wind/Bighorn and the Snake/Salt River Basins and they were completed in 2003. The Platte River Basin Plan was funded in 2003 and completed in May of 2006. The State Framework Water Plan, which updates the 1973 framework plan and consolidates information from the seven basin plans, was initiated in 2005 and completed in 2007. River Basin Plan updates were initiated in 2007 to continue the planning process. The Green River Plan update and the Wind/Bighorn River Plan update are currently underway.

Groundwater is an important resource in the Wyoming Platte River Basin. Surface water in the basin is fully appropriated and future developments may need to rely on groundwater. To update the groundwater portion of the previous basin plan and to provide more detail on groundwater, the Water Development Office is conducting a detailed evaluation of the groundwater resources in the basin. The study includes analysis of groundwater use, storage, and recharge for aquifers within the basin. In June 2009, an agreement was developed with the Wyoming State Geological Survey, in cooperation with the U.S. Geological Survey and the University of Wyoming Water Resources Data System to conduct the study. The study will be completed by February 2011.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

120. PROJECT: Poison Spider Pipelines

LEVEL: II
SPONSOR: Poison Spider Improvement and Service District
LOCATION: Natrona County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	66	2009	I	$100,000	2010

PROJECT INFORMATION:

The District's potable water delivery system was constructed in the late 1960's and initially served about 25 customers. It consists of approximately twelve miles of buried pipelines. Because of the vast size and topographic diversity of the service area and to reduce costs, the delivery system was constructed of small diameter thin walled plastic piping. Because of the low flow capability of the delivery system, it was necessary for each user to construct a buried cistern to store water. A pumping system consisting of a pump and pressure tank is used to deliver the water from the cistern to the house in the quantity and pressure required by the home owner.

Much of the current water delivery system is 40 years old and has been experiencing increasing leaks, failures, and maintenance costs. In addition, many of the buried cisterns are not well maintained and are the source of contamination from insects, rodents and other undesirable elements. The current Level II study is evaluating the feasibility of replacing portions of the delivery system with new modern piping, sized large enough to meet the current and projected flow demands of the system, and allowing for the elimination of the cisterns. Opportunities to provide service to new homes and other potential water customers (not currently served by the old system) are being evaluated. This project is ongoing and is scheduled for completion late 2010.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

121. PROJECT: Powell Airport Water Supply

LEVEL: I
SPONSOR: City Powell
LOCATION: Park County
PROGRAM: New Development

EXISTING LEGISLATION

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	66	2009	I	$50,000	2011

PROJECT INFORMATION:

The City of Powell is interested in a water supply for the Powell Municipal Airport and future development. The airport is currently served with a two-inch line that is approximately one-mile long. The water is pumped approximately 400 vertical feet to a 1,000 gallon cistern that serves as the storage for the airport and cattle watering for a nearby ranch. The system lacks the necessary pressure to meet the current needs of the facility, including fire suppression, and one building and eight hangers have no access to water unless it is hauled. In the last two years, the City of Powell has also considered locating an industrial park in the area. Generally, there is a concern for supplying water to the existing terminal, buildings, and hangars, and potentially an industrial park. The study is ahead of schedule with several water supply alternatives under consideration. A connection to the Shoshone Municipal Pipeline that would also serve the North End Water Users appears to be the most desirable at this time. It is anticipated that the study will be completed in early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

122. PROJECT: Powell Transmission Pipeline

LEVEL: III
SPONSOR: City of Powell
LOCATION: Park County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	121	2007	I	$1,689,070*	2012

* 67% grant

PROJECT DESCRIPTION:
The project consists of a 12" potable water transmission pipeline to eliminate four existing dead end water mains. The project will provide better water quality and fire protection. The plans and specifications have been developed. Construction was completed in 2009, and the project will be closed in early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

123. PROJECT: Rafter J Rehabilitation

LEVEL: III
SPONSOR: Rafter J Improvement and Service District and Teton County
LOCATION: Teton County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	46	1997	II	$ 60,000	1998
Level III	69	2003	II	$ 510,000*	2010
Level III	147	2005	II	$ 41,500*	2010
Level III	105	2006	II	$ 100,500**	2012
Level III	121	2007	II	$ 500,000**	2012

* 50% grant, ** 67% grant, 33% loan

PROJECT INFORMATION:
The Rafter J Improvement and Service District has a population of approximately 2,500 people. The community has a water supply system supplied by two wells and a 200,000 gallon storage tank. The system serves 500 homes and 25 commercial taps. The system was originally designed to include three wells and an additional tank. The existing system is inadequate and cannot meet demands during the summer. The district wanted to drill another well and provide additional storage.

The community formed their district in 1998, and a Level II evaluation was completed. The original Level III funding request was approved in 2003. The sponsor was successful in securing matching funds from Teton County. In order to complete the project, additional WWDC funds were approved in 2005 in the amount of $41,500. Unfortunately,

complications resulted in the loss of the new well and an additional $100,500 of WWDC funding was needed and approved in 2006 to drill a replacement well and complete the project.

The rapid rise in construction and material costs during 2005 and 2006 resulted in a shortage of available funds for the construction of the storage tank. In August 2006 cost estimates for the storage tank increased by $500,000. The sponsor requested and received a supplemental appropriation of $500,000 from the 2007 Legislature to fund the increased storage tank costs.

The replacement well was drilled in December 2007. Additional well development by drilling to a deeper depth was completed in September 2008 with limited success as the total dissolved solids (TDS) at the deeper depth are higher than desirable. The District has taken the matter under advisement and will decide whether to use the well in its existing configuration or drill to a deeper depth in hopes of lowering the TDS. Construction of the 200,000 gallon concrete storage tank was accomplished in 2009. Final project completion is scheduled for spring of 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

124. PROJECT: Rawlins Master Plan

LEVEL: I
SPONSOR: Town of Rawlins
LOCATION: Carbon County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	$150,000	2009

PROJECT DESCRIPTION:
The City of Rawlins had two water supply studies in 1983 and 1997. A large portion of the system improvements outlined in these studies have been completed or are in the construction phase. The City is experiencing increased system demands from additional population associated with oil and gas activities in the area. The City is looking at alternatives to reduce water system demands so the current supply and treatment systems can handle future demands. The City would also like to examine the relationship of their water supply and the North Platte Decree and Platte River Recovery Implementation Program. Therefore, the City sought a Level I Master Plan Study of their current supply system to include evaluation of their water needs; identify what areas are currently served with potable, raw, and reuse water; what areas are suitable for raw and reuse water; how much raw and reuse water is available; and how much potable water could be saved by using raw and reuse water. The study should also determine the treatment necessary to use raw and reuse water for the intended uses. The report should be completed in early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

125. PROJECT: Rawlins Atlantic Rim Pipeline

LEVEL: III
SPONSOR: City of Rawlins
LOCATION: Carbon County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	$150,000	2009
Level III	38	2009	I	$1,350,000*	2014

*Level III, Phase I-67% grant, 33% loan

PROJECT INFORMATION:

The Rawlins Atlantic Rim Pipeline has been identified as a critical component of Rawlins' raw water infrastructure in previous Level II studies. The raw water infrastructure includes the Sage Creek Diversion, the Sage Creek Pipeline, the Miller Well Field and the North Platte Diversion, Thayer Pump Station and North Platte River raw water pipeline. It also includes Peaking Reservoir, which is located near the water treatment plant, and Atlantic Rim Reservoir, which is located above and several miles away from the water treatment plant along State Highway 71. Because of the number of leaks and high maintenance costs, the raw water pipeline that conveys water between Atlantic Rim Reservoir and water treatment plant is recommended for replacement.

In 2009, the sponsor requested $16,415,000 for the construction of the pipeline and a re-regulating reservoir to replace the Atlantic Rim Reservoir. Due to budget restraints, the WWDC needed to phase the project. At the recommendation of the WWDC, the 2009 Legislature approved a Level III appropriation of $1,350,000 for the design, legal assistance, and land acquisition for the pipeline and re-regulation reservoir.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends that the Level III appropriation be increased from $1,350,000 to $3,900,000 (an additional $2,550,000) to allow for the construction of the Atlantic Rim Pipeline and appurtenances. The financing plan would remain as a 67% grant and a 33% loan with an interest rate of 4% for 30 years. The re-regulating reservoir is discussed under the heading of Rawlins Atlantic Rim Reservoir.

126. PROJECT: Rawlins Atlantic Rim Reservoir

LEVEL: III
SPONSOR: City of Rawlins
LOCATION: Carbon County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	$150,000	2009
Level III	38	2009	I	$1,350,000*	2014

*Level III, Phase I-67% grant, 33% loan

PROJECT INFORMATION:

In 2009, the City of Rawlins requested $16,415,000 for the construction of the pipeline and a re-regulating reservoir to replace the Atlantic Rim Reservoir. Due to budget restraints, the

WWDC needed to phase the project. At the recommendation of the WWDC, the 2009 Legislature approved a Level III appropriation of $1,350,000 for the design, legal assistance, and land acquisition for the pipeline and re-regulation reservoir.

In 2009, through additional investigations, it was decided to pursue the rehabilitation of Atlantic Rim Reservoir rather than construct a new re-regulating reservoir. This will reduced the total project budget by approximately $8,000,000. As the reservoir has become a rehabilitation project than a new development project, the following recommendation is seeking funding from water development account II for this project.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the Rehabilitation Program at Level III status with an appropriation of $4,000,000. The recommended financing plan includes a 67% grant and a 33% loan with an interest rate of 4% and a term of 30 years.

127. PROJECT: Red Lane Master Plan

LEVEL: I
SPONSOR: Red Lane Water and Sewer District
LOCATION: Hot Springs
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	II	$65,000	2010

PROJECT INFORMATION
Red Lane is a subdivision located north of Thermopolis on the highway to Worland. There are approximately 65 taps in the Red Lane Water & Sewer District. The population of the district is estimated to be around 250 people. Water is purchased from the Town of Thermopolis and is stored in a 20,000 gallon welded steel water tank on airport property before it is transmitted to the district.

Red Lane's water system is owned by a private company. The owner of the water system is interested in selling it to the district and the district is interested in taking control of their water system. However, the system is 50 years old and maintenance records are not very complete. The district would like to better understand the condition of the water system before they decide on their next course of action. They requested a master plan to evaluate the condition of their water system and to provide a plan for the future needs of the district. Funding for the master plan was approved by the 2009 legislature. The anticipated completion date for the study is August 2010.

RECOMMENDED LEGISLATIVE ACTION
No legislative action is required.

128. PROJECT: Riverton Valley Pipeline Relocation

LEVEL: III
SPONSOR: Riverton Valley Irrigation District
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	38	2009	II	$600,000*	2014

* Materials only-87.5% grant, 12.5% loan, sponsor and WYDOT responsible for the remainder of project costs

PROJECT INFORMATION:
The district became aware of an impeding WYDOT project that was going to cause the relocation of a portion of the district's irrigation pipeline. The district contacted their legislative representatives and requested funds to relocate the pipeline outside of the WYDOT corridor. The 2009 Legislature approved the request.

The district has signed the necessary agreements with the WWDC and WYDOT. Design is nearly completed. The project should be constructed in early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

129. PROJECT: Riverton Valley Rehabilitation 2009

LEVEL: III
SPONSOR: Riverton Valley Irrigation District
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	86	2001	II	$40,000	2002
Level III	38	2009	II	$79,000	2014

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:
The district has completed previous lateral rehabilitation projects from 2002 and 2005 that were outlined in the Level II Study and are requesting funding to complete the final lateral rehabilitations recommended in the study. The requested funding is to purchase materials for piping of three laterals located within the district. The district is requesting that in lieu of the loan that the district provides in-kind construction services. These laterals are the Smith Road Lateral Extension, the Fairgrounds Lateral, and the Fairgrounds Lateral "A".

The district has received bids for the materials and has started construction. The construction should be completed in early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

130. PROJECT: Riverton Water Supply

LEVEL: III
SPONSOR: City of Riverton, Incorporated Municipality
LOCATION: Fremont County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	II	$300,000	2006
Level II	99	2006	II	$125,000	2008
Level III	38	2009	I	$4,958,800*	2014

* 67% grant, 10% loan, 23% sponsor

PROJECT INFORMATION:

The City of Riverton identified a need for expanded capacity on the eastern side of town. In 2007, the WWDC drilled a Level II test well to increase the groundwater supply to that area of Riverton. The Level II study also identified the need for increased storage and transmission to service that area.

The budget for the entire project is $9,200,000. Due to funding constraints, the WWDC had to phase the funding for the project. The 2009 Legislature appropriated $4,314,800 for the construction a 2 million gallon storage tank and pipelines to connect the well and tank to the distribution system. The legislation also authorized the purchase of the Level II well. The City has started the design process. The construction should begin in 2010.

The City of Riverton is requesting and the WWDC is recommending that the remaining funds be appropriated to complete the project. The additional funding would be used for the construction of a booster station and transmission lines and installation of pressure reducing valves.

RECOMMENDED LEGISLATIVE ACTION:

he WWDC recommends that the project Level III appropriation be increased from $4,958,800 to $7,084,000 or an increase of $2,125,200. The financial plan includes a 67% grant and a 10% loan with an interest rate of 4% and a term of 20 years. The sponsor will pay the remaining 23% of the project costs.

131. PROJECT: Rolling Hills Master Plan

LEVEL: New Application
SPONSOR: Town of Rolling Hills
LOCATION: Converse County
PROGRAM: New Development

PROJECT DESCRIPTION:

The water system serves about 500 people living in the community and the adjacent area. The Town is solely reliant on groundwater from five deep wells completed into the Upper Cretaceous Lance Formation. One of the wells is not currently used due to pump failure. The total combined yield of the four remaining wells is 225 gallons per minute. The system has two ground-level storage tanks with a total combined capacity of 340,000 gallons.

The Town has requested assistance with a master plan study of their water system to allow for future growth and to determine options for increasing the system capacity. The master plan will address water system mapping, upgrades of the well controls, and rehabilitation options for inactive well. The GIS mapping of the system will be provided. A SCADA system for the well controls will also be considered.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated in the New Development Program at Level I with an appropriation of $250,000.

132. PROJECT: Saratoga Well Field

LEVEL: III
SPONSOR: Town of Saratoga, Carbon County Impact Joint Powers Board
LOCATION: Carbon County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	7	2002	I	$60,000	2002
Level II	125	2003	I	$180,000	2004
Level II	34	2004	I	$160,000	2006
Level II	75	2005	I	$ 25,000	2006
Level II	99	2006	I	$300,000	2007
Level III	121	2007	I	$293,125*	2012
Level III	75	2008	I	$4,363,375*	2012

* 67% grant

PROJECT INFORMATION:
The 2002 Saratoga Level I Study recommended two (2) sites for test drilling in order to determine viability of a ground water source of supply to supplement or replace the town's existing North Platte diversion and treatment facility. A test well drilled in 2003 at the proposed site, 2½ miles ENE of town on BLM lands, proved to be deficient based on desired yields of at least 300 gpm (test well pumped efficiently at a rate of 75-100 gpm). Pump testing results however, revealed good aquifer conductivity potential in the North Park Formation aquifer.

With increased project funding in 2004, additional test sites were identified but drilling did not occur that year because of BLM permitting and access issues. The drilling/testing program was completed in summer of 2005. Results revealed that a well field could be feasibly developed. In 2006, the sponsor requested funding for a continued drilling/testing program at the well field location to include two (2) production-size test wells and one (1) monitor/observation well to fully demonstrate the feasibility for a adopting a ground water source supply for Saratoga. Based on favorable results, the sponsor decided to pursue the development and construction of a well field and transmission lines.

The municipal well field for the Town of Saratoga is located on USDI – Bureau of Land Management lands approximately 4 miles ENE of Town. The first phase of Level III activity was for design, permitting, and right-of-way acquisition for the project. The first phase was completed in late 2007. Well field and transmission lines were completed in 2009. Final payment and project closeout will occur after the first of the year.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

133. PROJECT: Shell Canal Tunnel

LEVEL: New Application
SPONSOR: Shell Valley Watershed Improvement District
LOCATION: Big Horn County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	II	$300,000	2010

PROJECT INFORMATION:
The request for the Level II Feasibility Study on the Shell Canal Tunnel originated from the Shell Valley Watershed Level I Study which was funded from the 2006 legislative session appropriation shown above.

The Shell Valley Watershed Improvement District is requesting a Level II Feasibility Study to further evaluate rehabilitation of the Shell Canal Tunnel. The Shell Canal Tunnel was built in the early 1900's and is constructed of concrete, but without the use of steel reinforcement. The 561 foot long tunnel carries a maximum flow of 70 cfs during the irrigation season and carries enough water to irrigate approximately 3,500 acres.
The structure was evaluated at a reconnaissance level in the Shell Valley Watershed Level I Study. It was reported that the structure has far outlived its useful design life and the concrete has been deteriorating over time. The floor of the tunnel is cracked and is eroding. Any remaining concrete in the floor has become separated from the walls. Below the water line, the existing walls are also deteriorating. These two conditions allow for seepage losses through the tunnel and also contribute to the continued degradation of the tunnel. The ceiling at the inlet is cracked the entire thickness of the concrete and the ceiling has partially collapsed. The cover over the tunnel has pushed the cracked concrete together and put the concrete into compression which has prevented full collapse of the tunnel. The face of the inlet has failed in some areas, impeding flow through the inlet. The outlet structure is not as bad as the inlet but the wing walls are cracked and the floor and lower walls are eroded. Additional study will refine the conceptual engineering designs and cost estimates for rehabilitation of the tunnel.

RECOMMENDED LEGISLATIVE ACTION:
The WWDO recommends that the project be incorporated into the Rehabilitation Account at Level II status with an appropriation of $150,000.

134. PROJECT: Shell Valley Storage

LEVEL: New Application
SPONSOR: Shell Valley Watershed Improvement District
LOCATION: Big Horn County
PROGRAM: Dams and Reservoirs

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	II	$300,000	2010

PROJECT INFORMATION:
The Shell Valley watershed is approximately 370,000 acres with land ownership divided among private, State, BLM, and Forest Service. Shell Creek begins in the Big Horn

Mountains and flows in a westerly direction until it empties into the Big Horn River below the town of Greybull. There are approximately 9,000 acres of irrigated lands within the watershed. The watershed includes the main stem of Shell Creek and its primary tributaries being Trapper Creek, Horse Creek, and Beaver Creek. There are several reservoirs in the watershed, including Leavitt Reservoir, Ewen Reservoir, Lake Adelaide and Shell Reservoir.

The request for the Level II Storage Feasibility Study originated from the Shell Valley Watershed Level I Study which was funded from the 2006 legislative session appropriation shown above. The study will further explore storage opportunities identified in the study capable of providing additional irrigation water in areas not served by existing reservoirs. The study will focus primarily on hydrologic analysis and site investigations to determine the most viable storage locations.

RECOMMENDED LEGISLATIVE ACTION:
The WWDO recommends the project be advanced to Level II status within the Dam and Reservoir Program with an appropriation $250,000 from water development account III.

135. PROJECT: Shell Valley Watershed Management Plan

LEVEL: I
SPONSOR: Shell Valley Watershed Improvement District
LOCATION: Big Horn County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	II	$300,000	2008

PROJECT INFORMATION:
The Shell Valley watershed is approximately 400,000 acres with land ownership divided among private, State, BLM, and Forest Service. There are approximately 20,300 acres of irrigated lands within the watershed. The watershed includes the main stem of Shell Creek and its primary tributaries being Trapper Creek, Horse Creek, and Beaver Creek. There are four reservoirs in the watershed, Leavitt Reservoir, Ewen Reservoir, Lake Adelaide and Shell Reservoir.

This project will provide an inventory and description of the watershed to include basic hydrology and stream geomorphology and identify potential new storage sites in the watershed that may provide additional irrigation water in areas not served by Lake Adelaide or Shell reservoir. A mapped inventory and assessment, with cost estimates, of the various irrigation systems within the watershed will provide the tools necessary to create a rehabilitation plan which will allow for a systematic approach to replacing aging structures. Also, a rehabilitation plan for development of upland water opportunities benefitting wildlife and livestock is being developed.

The final report is expected in the spring of 2010.

RECOMMENDED LEGISLATIVE ACTION:
No further legislative action is required.

136. PROJECT: Sheridan/Big Goose Slip Lining

LEVEL: III
SPONSOR: City of Sheridan
LOCATION: Sheridan County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	121	2007	II	$427,020*	2012

* 33% grant

PROJECT INFORMATION:

In October 2002, a Level II study referred to as the Sheridan Hydropower Study was completed. The study covered several needs within the Big Goose Valley. This project entails rehabilitation (slip-lining) of an existing raw water transmission pipeline between the City's intake facility and the Big Goose Water Treatment Plant, and rehabilitation (slip-lining) of a separate treated water transmission pipeline between the City's North Low reservoirs and Airport reservoirs.

In 2006, there was not enough funding for all applications submitted for rehabilitation projects. As a result, several projects were postponed. This project had a high probability of being postponed. However, the sponsor proposed to the WWDC that this project was critical and that they would be willing to accept a lower percentage of grant funds if the WWDC funded this project.

In 2007, the project received Level III funding with a 33% WWDC grant of $427,020 for the design, permit procurement, project land procurement, construction engineering, and construction of the project. The total project budget is $1,294,000.

Favorable construction bids were received. Construction is underway.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

137. PROJECT: Sheridan Northwest/Big Goose Tanks

LEVEL: III
SPONSOR: City of Sheridan
LOCATION: Sheridan County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	121	2007	I	$5,260,840*	2012

* 67% grant

PROJECT INFORMATION:

Sheridan Northwest Tank

In December 2005, a Level II study was completed for the City of Sheridan to study the needs of the areas northwest of Sheridan including the Veteran's Administration Medical Center. This area is anticipated to grow in the near future and Sheridan is preparing for that

growth. This project includes a new one-million gallon treated water storage tank, a new pump station to supply the tank, and three miles of new transmission line to serve the VA Medical Center.

Design was completed in mid-2009. Favorable construction bids were received. The project is currently under construction and is anticipated to be completed in 2010.

Sheridan Big Goose Tank
In October 2002, a Level II study referred to as the Sheridan Hydropower Study was completed. It addressed water supply needs within the Big Goose Valley. In 2007, Sheridan received funding for a new 1.5 million gallon treated storage tank near the Big Goose Water Treatment Plant.

The city is presently addressing easement issues.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

138. PROJECT: Sheridan Supplemental Storage

LEVEL: II
SPONSOR: City of Sheridan
LOCATION: Sheridan County
PROGRAM: Dams and Reservoirs

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	105	2006	III	$350,000	2010

PROJECT INFORMATION: The City of Sheridan is interested in developing additional water supplies to meet demands due to ongoing growth and development. The recently completed Buffalo-Sheridan Area Water System-Lake DeSmet Level I Study recommended that the City of Sheridan, in cooperation with the Sheridan Area Water Supply JPB, apply to the Commission to conduct a Level II study of Gillispie Draw as a potential site for construction of a new dam and reservoir to serve as a supplemental supply for the City.

The Gillispie Draw Reservoir sites are located near Sheridan Wyoming, approximately ¼ mile from the Sheridan Water Treatment Plant. Anticipated uses for the reservoir include supplemental water to meet municipal/rural domestic demands for water, recreation, including stock watering; and industrial uses. The project would be filled from an existing source (the City's territorial direct flow water right) and runoff from Gillispie Draw upstream of the potential sites.

The City is interested in developing storage of 2,000 acre-feet or more. The engineering scope of services includes reservoir hydrology, analysis of water rights, and a conservation component, which is required by the Federal Government during the NEPA review. Furthermore, construction of the least environmentally damaging alternative is a federal goal during the NEPA review when developing a "preferred alternative." Therefore, since acquiring shares from or purchasing of existing reservoirs would, undoubtedly, be less environmentally damaging, this alternative and other potential alternatives described in the Buffalo-Sheridan Area Water System- Lake DeSmet Level I Study will be considered in more depth.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

139. PROJECT: Shoshone Eagle Nest Creek

LEVEL: III
SPONSOR: Shoshone Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	105	2006	II	$1,145,700*	2010

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:
The Eagle Nest Creek Crossing and Spillway is a located where Eagle Nest Creek crosses under the Garland Canal. The structure is 99 years old and is located on the upper end of the water delivery system for the entire irrigation district. This project would replace the existing concrete structure. In addition, the sponsor requested financing to replace approximately 35,572 feet of open ditch on six laterals with pipe. The WWDC financing includes the purchase of materials and the sponsor will fund the engineering, land rights, and permits, and will provide labor, equipment, and other resources necessary for construction.

The sponsor completed construction on the Eagle Nest Creek Crossing and Spillway as well as laterals 4C, 2W, 24F, D, 6S, and 9S prior to the 2009 irrigation season. Construction of laterals 16-T, 20-B, and R with 6R-1 is anticipated this winter with completion of the project to occur prior to the 2010 irrigation season. When complete, this project will provide a more reliable structure at Eagle Nest Creek and replace almost eight miles of open ditch with a more efficient pipe system and new farm turnouts with measuring devices.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

140. PROJECT: Shoshone Municipal Pipeline-2009

LEVEL: III
SPONSOR: Shoshone Municipal Water Joint Powers Board
LOCATION: Park County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	38	2009	I	$2,428,800*	2014

* 33% grant

PROJECT INFORMATION:
The Shoshone Municipal Water Joint Powers Board (SMWJPB) treats surface water from the Buffalo Bill Reservoir and delivers it to several participating entities. The pipeline conveying this water was completed in 1993 using WWDC funds.

When the Shoshone Municipal Pipeline project was constructed, the decision was made to place as much of the pipeline within the existing highway right-of-way as possible. This reduced costs as well as minimized the impact on adjacent land owners. The agreements with the Wyoming Department of Transportation (WYDOT) stipulate that the pipeline must be relocated if required for future highway improvements. Since WYDOT is planning to reconstruct a portion of Highway US ALT 14, and since this construction would damage the transmission pipeline, WYDOT has requested that the pipeline be relocated. However, WYDOT will provide 50% of the project costs.

In 2009, the SMWJPB received an appropriation of $2,428,800 to pay for one-third of the cost of the project. Design of the project has begun and the project should be under construction in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

141. PROJECT: Shoshone Rehabilitation 2009

LEVEL: III
SPONSOR: Shoshone Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	99	2006	II	$300,000	2008
Level III	38	2009	II	$339,000*	2014

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:
The sponsor has completed a GIS and master plan study and is continuing to systematically rehabilitate its water delivery system. This request is to replace the concrete entrance and exit portions of the Buck Springs Undershot on the Garland Canal. The sponsor will also replace the concrete lining in the canal at that location. This project will also replace Drop #22 on the Garland Canal with a new concrete structure and replace the open ditch on Lateral 11-U with pipe. Financing from WWDC will be used to purchase materials and the sponsor will fund the engineering, land rights, and permits, and will provide labor, equipment, and other resources necessary for construction of the project.

When complete this project will help assure timely and reliable delivery of irrigation water to the users as well as facilitate operation of the system and reduce losses to seepage and evaporation. Construction has begun on Lateral 11-U and Garland Canal Drop #22 and both should be complete prior to the 2010 irrigation season.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

142. PROJECT: Shoshone Well and Transmission

LEVEL: III
SPONSOR: Eastern Shoshone Tribe
LOCATION: Fremont County, Wind River Indian Reservation
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	34	2004	I	$850,000	2006
Level II	99	2006	I	$600,000	2008
Level III	121	2007	I	$824,000*	2012

* 67% grant and $87,000 loan

PROJECT DESCRIPTION:
The Fort Washakie and Boulder Flats water systems, operated by the Shoshone Utility Organization (SUO), relied solely upon highly variable (both in quantity and quality) surface water diverted from the Little Wind River. Due to irrigation demands in the summer and natural low flows in the winter, SUO is often unable to divert enough water to meet domestic water needs. High turbidity in the river caused significant problems for SUO, reinforcing the need for a reliable ground water source of domestic water

In 2004, WWDC funding was acquired to further investigate the feasibility of developing available ground water resources, identify potential drilling sites, estimate drilling budgets, and develop a Master Plan for Shoshone Utilities regarding a ground water supplemented system. Additional funding requested in 2006 accommodated increased test drilling costs, leak detection in the transmission/distribution system, detailed mapping of the system, and exploration of alluvial well sources near the new proposed water treatment plant site. In early 2007, a discovery test well was completed west of Fort Washakie that met the needs of the SUO for a ground water supplementary supply. In 2007, Level III funds were appropriated to connect the well to the water supply system.

The Level III project includes construction, pipeline, materials, and appurtenances necessary for incorporation of the WWDC Shoshone Level II test well into the existing SUO rural water supply system that serves the community of Ft. Washakie and surrounding area. The design was completed in mid 2009 with construction beginning in late in 2009. The project should be completed in 2010

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

143. PROJECT: Sidon Rehabilitation

LEVEL: III
SPONSOR: Sidon Irrigation District
LOCATION: Park and Big Horn County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	75	2008	II	$405,000*	2012
Level III	38	2009	II	$295,000**	2014

*67% grant, 33% loan, 4% interest, 8 year term.
**100% grant for invoiced materials. The sponsor is responsible for all other project costs. This funding replaces the 2008 appropriation, which had no expenditures.

PROJECT INFORMATION:
This project will replace about 4,200 feet of concrete lined ditch with pvc pipe. Historically, the ditch has not delivered adequate water and the sponsor wanted to remedy

this situation. The pipeline includes several farm turnouts. Conversion to pipe will facilitate delivery to users along the pipeline, particularly those located at the end of the pipeline.

In 2008, the project was authorized with an appropriation of $405,000, which was a 67% grant and 33% loan. In 2009, the funding was changed to an appropriation of $295,000, which is 100% grant for the purchase of materials and the sponsor will fund the engineering, land rights, and permits, and will provide labor, equipment, and other resources necessary for construction.

The project is being designed with construction anticipated to begin and be completed in the spring of 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

144. PROJECT: Small Water Project Program

LEVEL: III
SPONSOR: State
LOCATION: Statewide
PROGRAM: New Development/Rehabilitation

EXISTING LEGISLATION-New Development

Purpose	Chapter	Session	Account	Appropriation	Due Date
Small Projects	88	2002	I	$500,000	2010
Small Projects	118	2004	I	$750,000	2010
Small Projects	114	2005	I	$500,000	2010

EXISTING LEGISLATION-Rehabilitation

Purpose	Chapter	Session	Account	Appropriation	Due Date
Small Projects	88	2002	II	$500,000	2010
Small Projects	118	2004	II	$750,000	2010
Small Projects	114	2005	II	$500,000	2010

PROJECT INFORMATION:
Pursuant to W.S. 99-3-703(j)(vii) and 99-3-704(g)(vii), a small project is a project in which estimated construction or rehabilitation costs, permit procurement, construction engineering and project land procurement are one hundred thousand dollars ($100,000.00) or less and where the maximum financial contribution from the WWDC is twenty-five thousand dollars ($25,000.00) or less.

Projects may include new development or rehabilitation of small reservoirs, pipelines, wells, windmills, springs, wetland developments, solar platforms, and irrigation conveyance facilities. Projects must provide a public benefit through mitigation of water quality impairments, enhancement of threatened or endangered species habitat, the development or enhancement of habitat and water for fish and wildlife, increased recreational opportunities, provide water for maintenance of the integrity and vitality of plant and animal communities, serve as instruments to improve rangeland condition, or make beneficial use of water, as documented in a WWDC Level I watershed study.

The 2007 Legislature placed a hold on authorization of any new small water projects on or after April 1, 2010.

Following is a listing of projects approved in 2003:

Account I – New Development	Account II - Rehabilitation
Diamond S Ranch Pipeline*	Russell Ranch Pipeline*
Central Well*	Diamond S Ranch Well*
Big Bend Pasture Well*	Big Sandy Pipeline*
Emigrant/Four Mile Pits*	Coyote Reservoirs*
Perino Pipeline*	Cabin Creek Water Development*
Gooseberry Creek Ranch Well*	TY Ranch Pipeline*
Big Horn River Ranch Pipeline*	Old Steve Adams Duck Pond*
East Dry Creek #1 Well*	Poison Buttes/Cottonwood Ponds*
Crowfoot Ranch Well*	Jones Water Project*
Jensen Wash Well*	Dixon Summer Project*
Migration Well*	Croonberg Water Development*
Asperation Well*	
Lombard Well*	
Blue Forest Well*	
Gasson Well #2*	
Four Mile Gulch Well*	
Bench Well*	
Twelve Mile Sink Well*	
Bad Land Well*	
Emigrant Well*	

Following is a listing of projects approved in 2004:

Account I – New Development	Account II – Rehabilitation
Antelope Hills Water Well*	Henthorne Pipeline*
Range Unit 40 Young Bench Well*	Hay Creek Project*
Aaron Carollow Livestock*	South Coffee Project*
Antone Swanda Well & Pipeline*	RangeUnit40CrowheartButtePipeline*
Gordon Pries Irrigation Pipeline/Pond*	Range Unit 38 Water Rocks Pipeline*
Cherokee Allotment Ground Water*	Double Tanks Pipeline*
Chant Water Well #1*	Blakely Big Draw*
Springfield Ranch-Laramie Plains*	Jones Bros. 2-B & #8 Reservoirs*
Butte Water Development*	Morrisey Pipeline Rehabilitation*
PH Livestock Fillmore Pasture*	Big Poddy Creek Pipeline*
Black Thunder Watershed Project*	MishurdaMtn.Ranch,Phase2 Pipeline*
Basin Allotment Project*	Struempf Ponds*
Dobie Ridge Project*	Lodgepole Water Project*
Muddy Creek Ox Bow Restoration*	Red Butte Water Project*
Chant Stock Ponds #7 & #8*	Muley Meadows Pipeline*
Bridger Pass #5 Stock Pond*	Little Jack Res., South Flat Top*
Coal Gulch Grade Control/Diversion*	Irvine Ranch Small Water Project*
Vineyard Ranch Small Water Project*	

Following is a listing of projects approved in 2005:

Account I – New Development	Account II – Rehabilitation
Upper Nowater Stock Well & Storage*	Six Mile Spring Development*
Hall Butte Reservoir Project*	Canyon Springs Prairie Pipeline*

West Keester Project*

Upper Beaver Creek Pipeline*
Neiber Pipeline Project*
Sun Land & Cattle Co. Project*
Pole Mountain Water Development*

Following is a listing of projects approved in 2006:

Account I – New Development	Account II – Rehabilitation
Bunch-Wetland Restoration*	Baird-Sand Draw Pipeline*
Hall Butte Range Water Development*	Hall Butte Stock Pond Rehab*
Jones Pond #1 Red Hole & Offsite Water	Henthorne Stock Ponds Rehab*
Jones Pond #2 Red Hole	Jones Pipeline & Storage Tank*
Jones Pond #3 Red Hole*	Reed Reservoir*
Reed Pipeline*	Russell Ranch Stock Pond Rehab*
Russell Ranch Wetland Restoration*	V-Ventures Boxcars Rehab*
Hibbard Stock Rest Water Development*	V-Ventures West Kirby Pond Rehab*
Kaycee Stock Rest Water Development*	V-Ventures Below Frost Pipeline*
Casey Jones Well*	V-Ventures-Wetland Rehab
Dull Center Well*	Whitt-Homestead Pipeline*
East Woody & NW Ireton Wells*	Government Reservoir Water Devel*
Frog Creek Well	JJ Springs Water Development*
Gordon Well*	Mud Springs/Arch Cr Water Devel*
Hardesty Well*	Downs Solar Pipeline*
Hills Well	East Pasture-South Pipeline*
Iberlin Bobcat Well*	Lona Solar*
Iberlin Solar Well	Tracy Solar Systems*
Lower Horse Section 35 Well*	2Coyote-East Pipeline*
M Creek Section 26 Well*	2 Coyote Pipeline*
Neumiller Section 15 Well	2 Coyote Storage*
Neumiller Upper Meadow Portable Solar*	West Horse Underground Pipeline*
North M Creek	Tracy Wells*
Rock Well*	Rothleutner Stock Tanks*
South M Creek	Upper Antelope-Coal Bank Pipeline*
Riehle Well*	
Rochelle Hills Spring Development	
Rothleutner Solar Well	
West Railroad Well*	

Following is a listing of projects approved in 2008:

Account I – New Development	Account II – Rehabilitation
Little Grass Creek Water Development*	
West Prospect, Otty, Urwin Pipeline	

Following is a listing of projects approved in 2009:

Account I – New Development	Account II – Rehabilitation
Arkansas Creek Stockwater Pipeline	Jesse Brown Ditch Diversion*
Dickie 21/Bear Cr./Urwin 21 Pipeline	Littlejohn Ditch Turnout
Grass Creek Divide	Sawmill Creek Headgate*
Horse Pasture Putney Flat Pipeline	
LU Farm Pivot Diversion	
North Prospect Pipeline	

Pats Draw Pipeline
Putney School Section Pipeline
Ramul 21 Pipeline
Reds Creek Pasture Pipeline
Spring Gulch Pipeline
Wagonhound Spring Pipeline *Projects completed or expired as of 12/31/09

RECOMMENDED LEGISLATIVE ACTION:
The recommendation is to keep the programs active through July 1, 2012 and balance the available funds in the New Development and Rehabilitation Programs without increasing the total investments in the Small Water Project Program. There has been more demand for New Development Projects than Rehabilitation Projects. The adjustments will move under-runs in the budget for the Rehabilitation Program to alleviate future potential overruns in the New Development Program:

	New Development (WDA I)	Rehabilitation (WDA II)
Presently available	$284,780	$676,688
Adjustments	+ 200,000	- 200,000
Revised available	$484,780	$476,688

These revised balances should be sufficient to meet the programs' needs through 2012.

145. PROJECT: South Circle Master Plan
LEVEL: Level I
SPONSOR: South Circle Estates Improvement and Service District
LOCATION: Washakie County
PROGRAM: New Development

EXISTING LEGISLATION

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	$50,000	2009

PROJECT INFORMATION
The South Circle Estates is a subdivision just outside of Ten Sleep. The original developer of the subdivision installed a water system that has functioned for the Improvement and Service District for the last thirty years. Recently, the age of the pipe has taken its toll on the district with multiple breaks and leaks. In addition to line breaks, the district has suffered from pressure problems. Currently, the district has no storage and no redundancy in the event that there are problems with the well or pipelines.

Water from the shared flowing well is used by the district for domestic water needs and irrigation of small parcels. The irrigation lines are separate from the domestic lines and are much larger in size. Several of the district members have pasture adjacent to their houses that they irrigate with their share of the well water. The district has a total of 33 taps; 18 are domestic and 15 are irrigation. There are 14 property owners in the district.

The district requested a study from the 2008 legislature to analyze their system and determine what improvements are necessary. A recent water sample taken from the districts well as a part of the Level I study has shown an elevated level of radionuclides.

Additionally, they recently met DEQ requirements to become a public water supply system. As a result of the water quality analysis, the district is requesting additional funding to focus on a connection to the Town of Ten Sleep.

RECOMMENDED LEGISLATIVE ACTION
The WWDC recommends that the project be continued in the New Development Program at Level I status with an additional appropriation of $30,000.

146. PROJECT: South Laramie Water Supply

LEVEL: II
SPONSOR: City of Laramie
LOCATION: Albany County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	I	$330,000	2006
Level II	75	2007	I	$260,000	2008
Level II	66	2009	I	$100,000	2010

PROJECT DESCRIPTION:
The Laramie Water Management Study included a task to provide conceptual level designs and cost estimates for a redundant water supply connection for the South of Laramie Water and Sewer District (SLWSD). The SLWSD currently receives its drinking water supply from the City of Laramie. Water is provided to the district through a single pipeline connection that is several years old and runs under the railroad.

The Laramie Water Management Study also included a task to calibrate the City's hydraulic model. After the model was calibrated, it confirmed supply deficiencies in the City's water system on the south side of the city. A construction project was proposed to provide the redundant water supply that is needed by SLWSD and correct the supply deficiencies identified within the City's existing system.

RECOMMENDED LEGISLATIVE ACTION
The WWDC recommends that the project be incorporated into the New Development Program at Level III status with an appropriation of $3,100,000 to include a 67% grant and 33% loan at 4% for 20 years.

147. PROJECT: South Thermopolis Water Supply

LEVEL: II
SPONSOR: South Thermopolis Water & Sewer District
LOCATION: Hot Springs County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	II	$100,000	2008
Level II	75	2008	II	$ 75,000	2010

In August 2007, a Level I study was completed for the District. The Level I study found several issues of concern. With its current configuration, several district residents have been paying for water that the district is currently unable to provide. Additionally, the water system has pressure problems in many of those areas that do receive water.

A Level II study was completed to identify the preferred alternative and to develop construction level cost estimates. The study recommended construction of a new storage tank and new transmission lines for a total project cost of $3,160,000.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the project be advanced to Level III status in the New Development Program with an appropriation of $2,117,200. This appropriation would serve as a 67% grant with the remaining 33% of the project funding being the responsibility of the sponsor.

148. PROJECT: Squaw Creek Water Supply

LEVEL: III
SPONSOR: Squaw Creek Water District
LOCATION: Teton
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	43	1992	II	$250,000	1993
Level II	74	1993	II	$300,000	1994
Level III	105	2006	I	$177,550*	2010

* 67% grant

PROJECT DESCRIPTION:
The Squaw Creek Water District (SQWD) includes approximately 540 acres of land located about seven miles south of the Town of Jackson. The District was first formed in 1981 to take over operation of an existing private spring source and water supply system that served the area including several subdivisions that date back to the1960's and early 1970's. There are currently a total of about 80 lots in the service area. In the early 1990's, the WWDC funded an unsuccessful attempt to drill a deep well at Squaw Creek and ultimately developed two alluvial wells in the Game Creek drainage for the District. Production from the Game Creek wells has deteriorated and a senior water right limiting use of the spring prompted the District to continue to seek source supplies. In 2004, the district received a WWDC Ground Water Exploration Grant for test drilling. Late in 2005, the district applied for Level III funding to enable them to bring a new well into service. At the time of their application, the new well had not been completed. Unfortunately, the new well was not a good producer and the completion/connection work could not take place.

Reevaluation of the development of a new well and/or spring source was considered during the 2007 construction season. In August 2007, a budget increase to the Groundwater Grant was made to allow a second attempt at drilling a well. A U.S. Forest Service Special Use Permit was secured for drilling of this second well in October 2009 and the well was drilled in November 2009. Unfortunately the second well was unsuccessful. This leaves the district without an adequate source of wate, which is requiring significant conservation efforts and the restriction of water use.

In December 2009, the district, which is at 95% of total build-out, requested consideration of funding a Level II feasibility study to review and make recommendations on any/all alternatives to increase the quantity of the district's water source to meet current and future demands. The study will include the technical and financial analyses of alternatives to include: the redevelopment of the existing spring source, redeveloping existing shallow wells along Game Creek, drilling additional shallow well(s) along Game Creek, purchase of water rights from an existing Teton County well located approximately 1.25 miles from the district, and the development of a well in the Snake River alluvium.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC is recommending that existing Level III appropriation be allowed to revert back to water development account I on July 1, 2010 and a new appropriation of $175,000 be granted under the New Development Program for Level II feasibility study.

149. PROJECT: Star Valley Ranch Water Supply

LEVEL: III
SPONSOR: Town of Star Valley Ranch
LOCATION: Lincoln County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	II	$200,000	2008
Level II	85	2007	I	$600,000	2008
Level III	38	2009	I	$2,620,000*	2014

* 67% grant, 33% loan

PROJECT INFORMATION:
Star Valley Ranch (SVR), like other communities in the Star Valley, is experiencing rapid growth and is seeking funding to upgrade and improve its water supply system. During the most recent Level II study, the WWDC drilled a test well to be used to increase the groundwater supply. The Level II study also identified the need for increased storage, new transmission lines, booster pump station and redevelopment of Prater Springs.

The budget for the entire project is $4,995,000. Due to funding constraints, the WWDC had to phase the funding for the project. The 2009 Legislature appropriated $2,620,000 for the first phase of the improvements to include well completion, a transmission line to tie the well into the system, a new 400,000 gallon storage tank, a transmission line from Green Canyon to Prater Canyon, and a SCADA control system. Work on the well, well house, and transmission line was completed in December 2009 with the remaining phase of the project under design.

In August 2009, the Town of Star Valley Ranch requested the second phase funding to complete the following improvements: acquisition of an existing 400,000 gallon tank; drilling and development of a second well; pump house and connection pipeline; new booster pump station; redevelopment of the Prater Springs; and an 8-inch Muddy String Road transmission line.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the Level III appropriation be increased from $2,620,000 to $4,995,000 or $2,375,000. The financing plan would remain a 67% grant and a 33% loan with an interest rate of 4% and a term of 30 years.

150. PROJECT: Star Valley Regional Master Plan

LEVEL: I
SPONSOR: Lincoln County Board of Commissioners
LOCATION: Lincoln County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	85	2007	I	$600,000	2008

PROJECT INFORMATION:
The Lincoln County Board of Commissioners requested a comprehensive regional master water plan for Northern Lincoln County, generally known as "Star Valley". The study area includes 4 municipalities and 8 water districts. The participating entities are: Town of Afton, Town of Alpine, Bedford Water and Sewer District, Etna Water and Sewer District, Freedom Water and Sewer District, Grover Water and Sewer District, North Alpine Improvement District, Greater Smoot Water and Sewer District, Town of Star Valley Ranch, Star Valley Ranch Association, Town of Thayne, and Turnerville Water and Sewer District.

The tremendous growth in Star Valley in the last five years has put great pressure on the water resources in the valley. In the last five years, the Lincoln County Planning office has approved over 1000 new homes and 970 new small wastewater systems. The regional planning study analyzed the impacts this rapid growth is having on the water resources and the potential impacts that could arise without planning for future development. The master plan is expected to be completed in early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

151. PROJECT: State Water Plan

LEVEL: I
SPONSOR: State of Wyoming
LOCATION: Statewide
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
State Plan	1	1996	N/A	N/A	1996
Aerial Photo	1	1996	I	$250,000	1998
State Plan	46	1997	I	$250,000	1998
Basin Plan	30	1998	I	$250,000	2000
State Water Plan	81	1999	I	$1,435,000	2001
State Water Plan	36	2000	I	$800,000	2002
State Water Plan	86	2001	I	$1,550,000	2003
State Water Plan	125	2003	I	$600,000	2006

Framework Water Plan	75	2005	I	$500,000	2007
State Water Plan	85	2007	I	$600,000	2008
Wind/Bighorn Basin	33	2008	I	$500,000	2010
Green River DSS	66	2009	I	$250,000	2010
Platte River Basin Plan	66	2009	I	$250,000	2010

PROJECT INFORMATION:

In 1996, the Wyoming Legislature directed the Wyoming Water Development Commission (WWDC) and the State Engineer's Office (SEO) to develop a proposal for updating the state's Framework Water Plan. The original Framework Water Plan was published in 1973. WWDC and the SEO prepared and submitted a proposal for updating the Framework Water Plan and for establishing a state wide planning process to the Governor and the Select Water Committee in October of 1996. During the 1997 Legislative Session, $250,000 was appropriated from Water Development Account I to enable the WWDC to conduct a feasibility study to determine the costs and methods of implementing a new water planning process for the state. The feasibility study concluded that a descriptive plan for each of the seven major river basins should be developed and should include a water planning website to present the data that would be updated as conditions change.

During 1997 and 1998, the WWDC undertook a pilot Basin Plan in the Bear River Basin to test data collection, information dissemination, and presentation methods. A coordination process was developed to present information on the proposed Statewide Water Planning Process and to obtain input from interested parties. The group of citizens and officials assembled as part of the planning process was named the Basin Advisory Group.

Following authorization by the 1999 Legislature, the WWDC formally established a River Basin Planning section to implement the Statewide Water Planning Process. The first two River Basin Plans were initiated in the Green and Bear River Basins. The Basin Advisory Group coordination process was implemented to gain input from individuals, private interest groups, and local, state, and federal agencies.

The Bear River Basin Plan was completed in September 2001, and the Green River Basin Plan was completed in January 2001. Products of the Statewide Water Planning Process are published on the Water Planning website at: http://waterplan.state.wy.us.

The 2000 Legislature authorized river basin plans to be prepared for the Powder/Tongue and Northeast Wyoming River Basins. Basin Advisory Groups were formed in those basins, and the plans were completed in January 2002.

The 2001 Legislature authorized river basin plans to be prepared for the Wind/Bighorn and Snake/Salt River Basins. Basin Advisory Groups were formed in those basins, and the plans were completed in early 2003.

The 2003 Legislature authorized the river basin plan to be prepared for the Platte River Basin. A Basin Advisory Group was formed in this basin and the plan was completed in June 2006.

Funding for preparation of the Framework Water Plan was approved by the 2005 Legislature. The Framework Plan was initiated in June 2006, and included a summary of

the seven river basin plans and a projection of future demands. A web based presentation tool was also prepared as part of the Framework Water Plan and is presented on the water planning web page.

Upon completion of the Framework Plan in October 2007, the process of updating the seven basin plans was initiated. The Green River Basin was selected as the first update due to the age of the plan, the energy development occurring in the basin, and because of down stream pressure on the Colorado River. Groundwater resources are being considered in more detail in this second round of planning. The Green River Basin Plan update was initiated in 2007 and is nearing completion.

The Wind/Bighorn Basin Plan update was begun in June of 2008. As with the Green River basin update, groundwater resources are being considered in more detail in this second round of planning. Additionally, efforts are being made to advance the surface water modeling along with improved economic forecasts. The surface water plan update and the groundwater report should be completed in early 2010.

A staff planning team from the WWDO, SEO and the University Of Wyoming, Water Resources Data System (WRDS) offices is working on a review and evaluation of the Bear River Basin Plan. This work will provide updated information for the Bear River Basin and will help direct further work within the basin. The review and evaluation should be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC is requesting $75,000 to conduct a study to assist the WWDO in developing methodologies to: 1) Define environmental and recreational water demands and benefits and 2) Incorporate this information in river basin planning in a consistent and appropriate manner. The study would evaluate the available data sources and define how to assess potential impacts to water development. (See **Basin Planning – Environmental & Recreation Uses** for details.) In addition, the WWDC is requesting $175,000 to conduct a groundwater resources analysis for the Bear River Basin. This study will help define the basin aquifers and the groundwater quantity and quality available. (See the **Bear River Basin Plan – Groundwater Analysis** for details).

152. **PROJECT:** **Statewide Water Research**
LEVEL: I
SPONSOR: State of Wyoming
LOCATION: Statewide
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	30	1998	I	$ 41,584	2000
Level I	36	2000	I	$140,000	2002
Level I	86	2001	II	$140,000	2002
Level I	7	2002	I	$200,000	2004
Level I	125	2003	I	$200,000	2004
Level I	31	2004	I	$200,000	2006
Level I	75	2005	I	$200,000	2006
Level I	99	2006	I	$300,000	2008

Level I	85	2007	I	$300,000	2008
Level I	33	2008	I	$300,000	2010
Level I	66	2009	I	$300,000	2010

PROJECT INFORMATION:
The University of Wyoming's Office of Water Programs annually solicits Wyoming stakeholders to identify areas of needed water research to be conducted by the University. The Selection Committee, made up of federal and state agency representatives, prioritizes these topics and issues a request for proposals to address these areas of concern. From these requests, proposals are selected based on peer-reviewed selection criteria. Projects are selected annually for funding, with Wyoming Water Development Commission funds being augment with those from the United States Geological Survey (USGS) and the University of Wyoming. The USGS's annual appropriation is approximately $100,000. The 2009 research projects are listed below:

- Groundwater-surface water management strategies used in Western states and implications of different management strategies are being studied.
- The planetary boundary layer turbulence and precipitation enhancement on the upslope side of the Medicine Bow Mountains and the impact of cloud seeding on reflectivity are being examined.
- The highest correlated combinations of periods of record and lag times of snowpack versus streamflow are being identified in regions targeted for weather modification.
- Carbon concentrations and isotopic composition of Dissolved Inorganic Carbon is being evaluated as a method to trace seepage out of coal-bed methane water retention ponds.
- A critical review and summary of the scientific knowledge base regarding several water quality elements for livestock and wildlife species in Wyoming is being conducted.
- The signature of glaciogenic seeding of orographic clouds is being studied with the University of Wyoming King Air research aircraft using cloud radar and lidar measurements.
- The extent of open water, frazil, and anchor ice is being delineated and water temperatures and heat fluxes are being measured along open-water reaches of CBM heat-impacted streams in the Powder River Basin.
- As a step toward more effective algae treatment strategies for Wyoming lakes, algae/ cyanobacteria species responsible for blooms, and the role of bloom-associated bacteria are being characterized.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that $300,000 be appropriated from water development account I for the 2010 statewide water research projects.

153. **PROJECT:** **Sublette Creek Reservoir**
LEVEL: II
SPONSORS: Cokeville Development Company
LOCATION: Lincoln County
PROGRAM: Dams and Reservoirs

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	125	2003	I	$200,000	2004
Level II	75	2005	I	$150,000	2006
Level II	85	2007	I	$ 81,000	2008
Level II	66	2009	III	$375,000	2011

PROJECT INFORMATION:

In 1984, the States of Wyoming, Utah and Idaho joined forces to evaluate the potential to construct storage on the Smiths Fork of the Bear River, which would provide benefits to all three states. The purpose was to provide a reliable water supply, and generate electricity. The project would also improve water quality and provide flood control and recreation benefits. In 1986, the State of Utah prepared an economic feasibility report, which concluded that the project was economically feasible only if all three states participated in financing the project. Unfortunately, the required unanimous support never materialized and the project was downgraded to a "hold status."

In 1988, the U.S. Corps of Engineers (COE) prepared a development plan for the entire Bear River. The report was completed in 1989. Several options were identified. The report verified that a dam on the Smiths Fork would provide considerable flood control, storage and water quality benefits. However, the economic assessment concluded that the project had an unfavorable benefit-cost ratio and, therefore, would not be eligible for federal funding under existing criteria, which reinforced maintaining a "hold status" for the project.

In 2003, the Cokeville Development Company (CDC) requested a Level I study to identify storage opportunities in the Smiths Fork drainage. The CDC's request identified the need for a multipurpose reservoir that would provide for flood and erosion control benefits and a water supply for agricultural water users. This study differed from past studies in that it looked at water use only in Wyoming and focused upon determining the potential of developing off-channel sites.

This Level I study was completed in August 2004. There were a number of sites evaluated in the initial screening and no off-channel sites were feasible due to lengthy conveyance canals and large embankment volumes. Six on-channel sites were the focus of study. All of these sites had been evaluated in previous studies. Sites lower in the basin are best from an operations standpoint and provide the best irrigation reliability with the smallest pool. They also offer the best flood control, greatest hydropower potential, and least environmental impacts. It appears there would be significant impacts to fish and wildlife from development of on-channel reservoirs and mitigation costs may be high.

The Smiths Fork Watershed Improvement District and the CDC requested a subsequent Level II study, which was approved by the Wyoming Legislature. To make the project more affordable it was again recommended to work with Utah and Idaho, as in the 1984 and 1988 efforts, to determine whether support could be generated for constructing a large flood control project. Interests in each state planned to petition Congress to fund a Flood Control Study, which would be conducted by the COE. The appropriation would be used to update previous studies, which recommended construction of a 125,000 acre-foot dam and reservoir on the Smith's Fork near Cokeville. Although, the COE indicated that they were planning to initiate a Flood Control and Ecosystem Enhancement Study in FY 2007 for the Bear River, the study never materialized.

Although the three state flood control project never materialized, the CDC remained interested in developing a smaller, multipurpose storage reservoir limited to serving Wyoming interests. A Level I investigation of the Sublette Creek watershed for potential reservoir sites and for the rehabilitation of the Covey/Mau Canals was requested by the Cokeville Development Company (CDC). The legislature appropriated funds to conduct the Level I analysis. Several potential sites and canal rehabilitation measures were identified by the Level I consultant. As a result, a Level II, Phase I Study analysis followed, which eliminated less efficient sites and further refined canal rehabilitation measures. The Level II, Phase I analysis, completed in 2009, was followed by an appropriation to conduct a Level II Phase II analysis of the more favorable reservoir sites. This study is underway.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

154. PROJECT: Sundance Meadows Water Supply

LEVEL: III
SPONSOR: Sundance Meadows Water District
LOCATION: Converse County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	I	$50,000	2008
Level III	121	2007	I	$332,287*	2012

* 67% grant

PROJECT INFORMATION:
The Sundance Meadows subdivision is located southwest of Douglas. All of the residents currently have private wells, though the water produced is barely palatable. Residents complain of methane and sulphur in the water. Most residents use home water treatment units to improve the quality of their water. Some residents have drilled between five and nine times on their property looking for an adequate water source.

In April 2004, Sundance Meadows residents acquired services to perform a hydrogeologic study of their area to identify potential target aquifers and the feasibility of drilling a successful new well to serve the area. The effort concluded that a drilling program would require drilling test wells on several lots within the subdivision.

In September 2006, a Level II study was completed to determine the costs of constructing a transmission line and distribution system for Sundance Meadows to be served as a wholesale customer by the City of Douglas. This was determined to be the most feasible water supply option. Level III funds were appropriated during the 2007 Session. The District is currently seeking to secure their 33% funding match through the SRF.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

155. PROJECT: Sundance Well

LEVEL: III
SPONSOR: Town of Sundance
LOCATION: Crook County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	121	2007	I	$595,000*	2014
Level III	38	2009	I	$ 90,000*	2014

* 67% grant

PROJECT INFORMATION:

The Town of Sundance water supply is from four groundwater wells. The casing in one of the Madison wells had corroded, creating pin holes that allow water to enter the casing from upper unscreened formations. The well casing has deteriorated to the point the well can no longer be used. Without the Madison well, the town's has difficulty meeting the summer water demands. This project consists of offsetting and drilling a new Madison Formation well to replace the existing well.

During well construction, the drilling contractor encountered lost circulation. To regain circulation, the drilling contractor cemented these lost zone regions. The lost circulation resulted in increased project costs associated with the contractor's cementing efforts, changing from conventional rotary to reverse circulation drilling techniques, and additional engineering expenses to oversee the project.

The project was divided into two phases. The first phase was to drill and complete the well; the second phase included setting the well pump and constructing a pipeline to connect the well to the town's water supply system. The first phase was completed in the fall of 2009. While the well does not produced as much water as anticipated, it will serve to supplement existing supplies. The town expects the second phase to be completed by late 2010.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action required.

156. PROJECT: Sunset Pipeline

LEVEL: III
SPONSOR: Sunset Ranch Water District
LOCATION: Weston County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	125	2003	I	$75,000	2004
Level III	118	2004	I	$212,500*	2012
Level III	121	2007	I	$344,112**	2012

* 50% grant, ** 67% grant

PROJECT INFORMATION:

In 2002, the Canyon Improvement & Service District and Sunset Ranch Water District submitted an application where residents in the Salt Creek and Beaver Creek valleys, north

and east of Newcastle wish to investigate the feasibility and costs associated with developing a water supply system.

In 2003, the Canyon/Sunset/Newcastle Area Water Supply Level II project was approved. The study recommended tying Sunset Water District to the City of Newcastle water supply system, which requires installation of 10,500 feet of 8" transmission line. The estimated cost of the Level III project was $425,000. In 2004, the Sunset Pipeline project was approved and a $212,500 (50% grant) was appropriated for the Level III project.

In 2006, the material costs of the project increased to a point that the project could no longer be constructed with the funds available. The Sunset Ranch Water District requested additional grant funds from the WWDC. An additional appropriation of $344,112 in the form of 67% grant, was approved. In 2007-2008, the sponsor worked to secure funding from the SLIB.

The project's design plans were completed in 2009. The project received favorable bids and entered construction in mid-2009. The project was constructed in late-2009 and will be closed out in early-2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

157. PROJECT: Sweetwater River Watershed Study

LEVEL: Level I
SPONSOR: Popo Agie Conservation District
LOCATION: Fremont County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	123	2005	I	300,000	2008

PROJECT DESCRIPTION:
The Sweetwater River watershed is approximately 1.8 million acres with land ownership divided among federal (79%), private (13%), and state (8%). The watershed includes one primary river system, the main stem of the Sweetwater River and its tributaries including Gold Creek, Willow Creek, Rock Creek, Granite Creek, Alkali Creek, Long Creek, Cottonwood Creek and Crooks Creek.

This watershed study will provide an inventory and description of the watershed to include basic hydrology and stream geomorphology. A mapped inventory and assessment, with cost estimates, of the various irrigation systems within the watershed will provide the tools necessary to create a rehabilitation plan which will allow for a systematic approach to replacing aging structures. Also, a rehabilitation plan for development of upland water opportunities benefitting wildlife and livestock is being developed.

This project was incorporated into the New Development Program at Level I status with an appropriation of $300,000 in 2005 with a condition that the sponsor and the WWDC agree upon a scope of service prior to proceeding with the study. The Level I report is anticipated to be completed in 2011.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

158. PROJECT: Sweetwater Water Supply

LEVEL: I
SPONSOR: Sweetwater Improvement and Service District
LOCATION: Weston County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	I	$100,000	2011

PROJECT INFORMATION:
The WWDC is conducting a study to identify and evaluate water supply alternatives available to the District located north of Newcastle. The residents of the District currently receive water from an untreated open surface reservoir through a pipeline that is at least 120 years old. Water treatment occurs at the point of use and is provided by individual water users.

A potential health hazard exists to the residents. Their water source is exposed to potential contamination from surface run-off and impacts from wildlife and livestock. The presence of total coliform was detected in the summer of 2008. The District needs a secure water supply to protect the health of the residents. This study is expected to be complete in mid 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

159. PROJECT: Teton Village Water Supply

LEVEL: Level III
SPONSOR: Teton Village Water and Sewer District
LOCATION: Teton County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	38	2009	I	$2,447,500*	2014

* 25% grant, 25% loan

PROJECT INFORMATION:
The Teton Village water supply system is currently not in compliance with Wyoming Department of Environmental Quality storage capacity requirements with regard to maximum day demand and fire demand which is equivalent to approximately 700,000 gallons of storage. A total of 875,000 gallons would be required to meet maximum day and fire demands with total build out.

The 2009 Legislature appropriated $2,447, 500 as a 25% grant and 25% loan for the drilling of a new 1,000 gpm supply well, construction of a 1.0 MG storage tank, transmission lines, pressure reducing valves, chlorinator and control building. These improvements will result in the water supply system being in compliance with Wyoming Department of

Environmental Quality requirements for maximum day demand and fire demand. The well was successfully drilled in December 2009. Permitting is currently being pursued with the U.S. Forest Service (USFS) to obtain permission for the new tank located on the Jackson Hole Ski slope. The Special Use Permit is anticipated to be obtained in early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required at this time.

160. PROJECT: Thayne Storage

LEVEL: New Application
SPONSOR: Town of Thayne
LOCATION: Lincoln County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	85	2007	I	$600,000	2008

PROJECT DESCTIPTION:
According to the current DEQ rules and regulations, the Town of Thayne water system has a water shortage as calculated and discussed in the "Town of Thayne Water System Investigation and Evaluation" portion of the "Star Valley Regional Master Plan Level I Study". There is anticipation for significant growth in the area in the next few years. The study will investigate the amount of, and options for, additional storage as well as provide a water conservation plan for the town.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the New Development Program at Level II status with an appropriation of $85,000.

161. PROJECT: Thermopolis Storage Replacement and Rehabilitation

LEVEL: III
SPONSOR: Town of Thermopolis
LOCATION: Hot Springs County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	II	$175,000	2006
Level III	105	2006	II	$519,250*	2012
Level III	75	2008	II	$1,804,910*	2012

* 67% grant, 13.7% loan, 19.3% sponsor

PROJECT INFORMATION:
In 2005, WWDC funded the Thermopolis Storage and Raw Water Level II project. Several alternatives for storage location and size of storage were developed during the study. The study addressed alternatives for both current and future needs for the Town of Thermopolis. A recommendation was made on the preferred alternative to address the immediate existing needs of Thermopolis.

The Town of Thermopolis requested Level III funding to pursue the preferred alternative which was the salvage of the existing 250,000-gallon "Airport" tank for future storage projects, replacement of the "Airport" tank with a new 500,000-gallon tank, adding a new 20,000-gallon storage tank on Cedar Ridge, and the painting of the interior of the 250,000-gallon "Hot Springs State Park" tank.

Unanticipated problems surfaced relative to the removal and replacement of the "Airport" tank. First, negotiations with the adjacent landowner for the additional land necessary for the larger tank have not gone well. The landowner's demands for sale/use of the property were unacceptable. Also, the geotechnical investigation of the site has revealed poor soil conditions. Extensive structural modifications of the site would be necessary to support the storage tank. As a result, the Town proposed to expand the scope of this project. A new storage tank will be constructed at a new location and a new booster pump station will be constructed. Additional transmission pipelines will be necessary. The old storage tank will be demolished. The town obtained additional funding from the 2008 Legislature for the reconfigured project.

This project is being designed with construction anticipated in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

162. PROJECT: Thunder Basin Watershed

LEVEL:	I
SPONSOR:	Thunder Basin Grazing Association
LOCATION:	Campbell, Converse, Niobrara and Weston County
PROGRAM:	Dam and Reservoir

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	III	$300,000	2010

PROJECT INFORMATION:
The Upper Cheyenne, Antelope Creek and Dry Fork drainages and their tributaries are comprised of approximately 1.9 million acres with land ownership divided among private (63%), federal (30%), and state (7%). These drainages are primary tributaries to the Cheyenne River system.

The Thunder Basin Grazing Association (sponsor), on behalf of the landowner community within the watershed and in cooperation with local Conservation Districts and the Thunder Basin Grasslands Prairie Ecosystem Association, requested a watershed study to evaluate surface and ground water availability. Of primary interest is the lack of developed upland livestock and wildlife water within the drainage and the potential to develop and enhance additional irrigation water storage. A mapped inventory and assessment will provide the tools necessary to create a rehabilitation plan which will allow for a systematic approach to implementation of water development opportunities.

This study will develop an inventory and description of the watershed to include basic physical science information such as geology, hydrology, soils, climate, plant communities, wildlife habitat, and geomorphic characterization of the stream systems. This information

will be incorporated into a rehabilitation and management plan complete with cost estimates for potential future project activities. The final report for this study is completed and the contract will be closed early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

163. **PROJECT:** **Thunder Basin Watershed II**
LEVEL: New Application
SPONSOR: Thunder Basin Grazing Association
LOCATION: Converse and Niobrara County
PROGRAM: New Development

PROJECT INFORMATION:
The Thunder Basin Grazing Association requests a watershed study to evaluate current watershed function, current condition of wetland and riparian areas within the drainage, and to develop a geomorphic classification. The Lower Cheyenne River drainage and tributaries, including Box, Cow, Crazy Woman, Dry, Lance, Lightning, Old Woman, Twentymile and Walker Creeks, are comprised of approximately 1.6 million acres with land ownership divided among private (86%), federal (6%), and state (8%).

The Thunder Basin Grazing Association (sponsor), on behalf of the landowner community within the watershed and in cooperation with local Conservation Districts and the Thunder Basin Grasslands Prairie Ecosystem Association, requests a watershed study to evaluate surface and ground water availability. Of primary interest is the lack of developed upland livestock and wildlife water within the drainage and the potential to develop and enhance additional irrigation water storage. A mapped inventory and assessment will provide the tools necessary to create a rehabilitation plan which will allow for a systematic approach to implementation of water development opportunities.

This study will develop an inventory and description of the watershed to include basic physical science information such as geology, hydrology, soils, climate, plant communities, wildlife habitat, and geomorphic characterization of the stream systems. This information will be incorporated into a rehabilitation and management plan complete with cost estimates for potential future project activities.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the New Development Program at Level I status with an appropriation of $250,000.

164. **PROJECT:** **Upton Well**
LEVEL: III
SPONSOR: Town of Upton
LOCATION: Weston County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	38	2009	I	$395,000*	2014

* 67% grant, 33% loan

PROJECT INFORMATION:
The Town of Upton drilled the Upton No. 6 Well in 1983 and it was acid stimulated with WWDC funds in 1990. Prior to the stimulation, the well was a poor producer, but production increased to approximately 600 gpm. There was a sudden increase of iron bacteria in the well. The presence of iron bacteria resulted in discolored water that also smelled. Subsequently, the town never tied the well into the town's water supply system.

In 2008, WWDC funded a Level II report to evaluate the condition of the well and provide treatment recommendations for the iron bacteria. This project is a result of the Level II study and consists of constructing a chlorine injection system, chlorine contact tank, well house improvements, a pipeline from the well to town and installation of radio controls.

Design of the project is underway. The town expects the project to be completed in late 2010 or early 2011.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

165. PROJECT: Viva Naughton Enlargement

LEVEL: II
SPONSOR: The Upper Green River Water Basin Joint Powers Board
LOCATION: Lincoln County
PROGRAM: Dams and Reservoirs

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	III	300,000	2007
Level II	85	2007	III	250,000	2009
Level II	66	2009	III	150,000	2010

PROJECT INFORMATION:
2001 investigations completed for the Green River Groundwater Recharge and Alternate Storage Study indicated enlarging Viva Naughton Reservoir is one of the more efficient water development projects in the state. The reservoir has an existing capacity of 42,393 acre-feet. PacifiCorp has filed a water right application for an additional 39,502 acre-feet of storage. The existing reservoir is owned and operated by PacifiCorp who has expressed an interest in the further investigation of the potential enlargement of Viva Naughton. The permitted enlargement reserves 10,752 acre-feet for irrigation on the Hams Fork downstream of the dam.

The evaluation of existing agricultural uses shows a need for additional storage on the Hams Fork. The enlargement of Viva Naughton would provide a much needed source of late season water to all uses below the dam, including the Hams Fork Water Users Association, and the towns of Kemmerer and Diamondville. Both towns are interested in participating in the project.

The study authorized in 2002 (Level II Phase I) investigated potential options for additional water supplies on the Hams Fork. Three options were identified with conceptual level cost estimates all in the same range. The Phase I study did not provide required geotechnical

information for the Dempsey Basin site or the required supply canal. As a result, in 2005, an appropriation of $300,000 was authorized to complete a Level II Phase II study to obtain the required geotechnical information and survey the wetlands for Dempsey Basin.

One major component of their work was to complete a geotechnical drilling program on the Dempsey Basin Reservoir site. Before the drilling could start, a Special Use Permit from BLM was required. The Dempsey – Hockaday Cutoff of the Oregon Trail runs through the Reservoir site. This trail is considered pristine in places within the basin. As a result it took longer than expected to acquire the Special Use Permit for Dempsey Basin. Wetlands classifications, the archeological investigations, refined hydrologic needs analyses, and the surveying work was completed. After the above items were finished, an interim report summarizing the results and outlining an approach to the geotechnical drilling work was completed.

In June, 2007, the Temporary Use Permit for the project was issued by the United States Department of the Interior Bureau of Land Management. Geotechnical drilling at Dempsey Basin and Viva Naughton was compled and the results analyzed. An alternative storage site upstream of the Dempsey Basin site was identified that could potentially be more favorable in the aspect of land ownership, NEPA, SHPO, and embankment quantities.

Additional funding was authorized from the Dams and Reservoirs Program by the 2009 Legislature to continue the Level II, Phase II study. The additional funds were to allow further exploration and drilling of the alternative storage site upstream of the Dempsey Basin site. As of the end of 2009, the work has been completed and the data is being analyzed. The study should be completed in 2010.

The State of Wyoming has discussed partnership options with PacifiCorp, owner of Viva Naughton Dam and Reservoir, related to construction of a project that would be beneficial to the state, PacifiCorp, Kemmerer-Diamondville, and local irrigators.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required at this time.

166. PROJECT: Wamsutter Well

LEVEL: III
SPONSOR: Town of Wamsutter
LOCATION: Sweetwater County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	38	2009	I	$542,700*	2014

* 67% grant

PROJECT INFORMATION:
Presently the Town of Wamsutter relies on 3 old wells (1900-1920 vintage, Union Pacific RR steam engine supply wells) and one "new" well, Well #8 completed in 1984 but only recently placed into service. Construction of an elevated 400,000 gallon storage tank augments the old 350,000 gallon railroad tank, but planning strategy dictates abandonment of the old wells and tank in favor a new, three-well source supply to complement the new tank.

The Town sought Level III construction funds to acquire a recently abandoned man-camp supply well from British Petroleum Corporation [BP] and build transmission facilities for connecting the well into the Town's system. The well was drilled in 2006 for the ESS man-camp and is an EPA approved Public Water Supply (ID #WY5601589) well. The well was tested under the WWDC Level II evaluation of the Town's water supply. The testing revealed the well could produce approximately 180 gpm on a steady use basis with acceptable water quality.

The BP well could augment or replace one of the existing Wamsutter Wells without causing interference with the other existing wells. With the addition of the BP Well and the new well drilled under the WWDC Level II study, the Town could reach the goal of feasibly converting from its old source supply/storage components and meet future demands of the community.
In 2009, the town was awarded $542,700 as a 67% grant. The sponsor will provide the remaining funds. This project is being designed with construction anticipated in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

167. PROJECT: Wamsutter Well 2010

LEVEL: II
SPONSOR: Town of Wamsutter
LOCATION: Sweetwater County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	33	2007	I	$800,000	2010

PROJECT INFORMATION:
The Town of Wamsutter is located in the Great Divide Basin in extreme NE Sweetwater County on Interstate Highway 80. Recent resurgence of oil & gas development activities in the area has created an increase in population and attendant water demands.

The Level II study was formulated to include an evaluation of system demands, an exploration drilling program, and a feasibility study to determine system upgrades to eliminate future dependency on the former supply system.

A Level II test well was completed in fall of 2009 and the Town wishes to connect the well to its system. The remainder of the feasibility/master plan study will be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the connection of the Level II well be advanced in the New Development Program to Level III status with an appropriation of $757,100. The funding will be 67% grant with the remaining 33% being the responsibility of the town. WWDC also seeks legislative authorization to transfer the Level II well to the sponsor for a purchase price equal to 33% of the drilling costs.

168. PROJECT: Wardwell Water Supply Improvements

LEVEL: III
SPONSOR: Wardwell Water and Sewer District
LOCATION: Natrona County
PROGRAM: New Construction

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	105	2006	I	$1,886,720*	2011
Level III	75	2008	I	$2,716,180*	2011

*67% Grant

PROJECT INFORMATION:

The Wardwell Water and Sewer District (WWSD) has experienced extensive growth in the northern most regions of the district (Town of Bar Nunn area). Available lots in the older portions of the Town of Bar Nunn are quickly being developed and homes in the McMurry No. 1 Subdivision (within the Town of Bar Nunn) are also rapidly being constructed. This region of the water system has marginal operating pressures, approximately 40 psi, and the residents in the new homes have expressed concerns. The project serves to construct a new pump station, water storage tank and transmission pipeline to allow for continued growth within the District.

The WWSD originally intended to fund their portion of the project with a loan from other sources. However, the loan approval election did not pass. Therefore, the WWSD decided to fund their portion with funds from other sources. Funds have been contributed from the Town of Bar Nunn, Central Wyoming Regional Joint Powers Board, WWSD, and developers. The need for this change has resulted in delays. During this time, costs of the project increased to the point that all of the project components could not be constructed within the WWSD's original budget. Therefore, the project configuration was revised in 2008.

As a result of the recently completed Casper Water Master Plan, the WWSD has learned that they would be unable to fight a fire in the southern portion of the WWSD. Modifications to the potable water system are proposed as part of this project. Costs for those modifications were included in the appropriation provided during the 2008 session.

The first phase of this project has been constructed. The second phase is under design and should be constructed in 2010.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action required.

169. PROJECT: Weather Modification – Medicine Bow/Sierra Madre and Wind River Ranges

LEVEL: II
SPONSOR: State of Wyoming
LOCATION: Albany, Carbon, Fremont, and Sublette Counties
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	34	2004	I	$100,000	2006
Level II	75	2005	I	$8,825,000	2011

PROJECT INFORMATION:

The 2004 Wyoming State Legislature funded a state sponsored weather modification feasibility study for the Medicine Bow/Sierra Madre (MB/SM) and Wind River (WR) Ranges which evaluated the feasibility of conducting cloud seeding programs in each of the two project areas for winter snowpack augmentation. Included in the project was a determination of the exact experimental and control regimes to be employed for a proposed 5-year pilot program based on the climatology and hydrology of each target area. The study identified methods, equipment, siting issues, permitting, operational criteria, monitoring regimes, evaluation methodology, potential water resource benefits, costs and a cost/benefit analysis.

The 2005 Wyoming State Legislature funded implementation of the 5-year weather modification pilot program for the Medicine Bow/Sierra Madre and Wind River Ranges based on these recommendations. The program is unique in that nearly one quarter of the project budget is being used to support a strong scientific independent evaluation. The National Center for Atmospheric Research (NCAR) out of Boulder, Colorado is conducting this evaluation. Physical and statistical evaluation components of the program are essential in establishing that the cloud seeding methodology is scientifically proven and is an integral part of the 5-year pilot program. Winter orographic snowpack enhancement programs have generally shown that precipitation can be enhanced anywhere from 10 to 20%.

The National Environmental Policy Act (NEPA) analyses required for deployment of the ground-based generators targeting the Medicine Bow/Sierra Madre Ranges was completed during 2006 with a categorical exclusion determination being issued by the Medicine Bow National Forest. The analyses included a 45-day public comment period, numerous design refinements, a biological assessment, a biological evaluation & management indicator species report, and consultation with the US Fish & Wildlife Service on 10 federally listed T&E species. A permit for ground-based seeding operations over this target area has also been issued by the Wyoming State Engineer's Office. Sixteen ground-based generators have been deployed on the western flanks of the Medicine Bow/Sierra Madre Ranges (eight targeting each range) and are available for seeding operations when specific case calling criteria are met. Operations in the MB/SM Ranges are randomized and adhere to a strict experimental design set forth by NCAR.

Applications for the special use permits necessary for the deployment of ground-based generators to be sited on federal lands and targeting the Bridger-Teton and Shoshone National Forests (for the Wind River Range) were withdrawn March 2007 due to increased costs and lengthened timelines associated with receiving federal clearance for the project. Eight ground-based generators targeting the central and southern Wind River Range have since been deployed on state and private lands and are available for seeding as conditions warrant. Basing in such a manner is typical for other states' programs. Two additional ground-based generators have also been deployed along the northern end of the target area as made possible by supplemental funding received from Lower Colorado River Basin entities in an effort to make the system "whole". A permit for ground-based seeding operations over this target area has been issued by the Wyoming State Engineer's Office.

Seeding operations over both target areas commences November 15th each year of the study and runs through April 15th. Silver sampling measurements have, and will continue to be taken by the Desert Research Institute, in each of the target areas. Additional climatological monitoring devices have been deployed across the target areas, and include high resolution precipitation gages, weather stations, radiometers, and ice nuclei counters. Also, instrumented weather balloons are being launched from Saratoga during the operational season. Project meteorologists and field technicians are stationed at Laramie, Saratoga and Rock Springs during the winter of 2009/10. Additional coordinated research efforts (externally funded) between scientists at the National Center for Atmospheric Research, Weather Modification, Inc. and the UW Department of Atmospheric Science, will be ongoing. (During February 2009, UW researchers used the Wyoming King Air and Cloud Radar to detect microphysical changes in cloud structure due to seeding operations over the Medicine Bow Range.)

Following implementation of a peer-reviewed experimental design, completion of environmental permitting and the full deployment of resources, the current study is building on a successful winter 2008-09 operational season with optimized (and season lengthened) ground-based operations for the remaining winter under the program. That being said, while the initial results of the study are encouraging, the challenge remains in acquiring enough data to achieve statistical significance under the randomized program such that an accurate evaluation of the program's effectiveness can be determined with a high degree of confidence. Scientists at the National Center for Atmospheric Research believe that extending the program by three additional operational seasons (beyond what is currently funded) would increase the number of seeding events realized, thus allowing for an accurate quantification of seeding impacts in the target areas. At this time, an appropriation for the extension of the current operations and evaluation activities associated with the study for two additional seasons is recommended and is based on the four prior years of experience with the program.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that $2,850,000 be appropriated from water development account I for a two-year extension of the program.

170. PROJECT: Westside Irrigation NEPA Analysis

LEVEL: I
SPONSOR: Westside Irrigation District
LOCATION: Big Horn and Washakie Counties
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	34	2004	I	$250,000	2006
Level I	75	2005	I	$1,200,000	2007

PROJECT INFORMATION:
The Westside Irrigation Project involves converting up to 16,500 acres of dry Federal land to privately-owned irrigated land and has been under consideration for several years with significant studies being conducted by both the U.S. Bureau of Reclamation and the Wyoming Water Development Commission. The project was placed on hold more than 10 years ago pending resolution of the Federal land transfer issue. The District has since received Congressional approval (U.S. Senate Bill S. 610) authorizing the Secretary of the

Interior to transfer the land and sell the land to the District at such time as it has been appraised and the requirements of the National Environmental Policy Act (NEPA) process have been completed.

The 2004 Wyoming State Legislature authorized $250,000 to complete the NEPA analysis requirements (cultural, soils, wildlife, vegetation, paleontology, etc.) as required for the land transfer. Through the initial scoping process, it was determined that an Environmental Impact Statement (EIS) would be required to complete the NEPA analysis. Substantial concerns were expressed with regards to aquatic habitat and diversions from the Bighorn River, as well as cultural and paleontological issues within the project boundaries. The later necessitated a Class III Cultural Resource Survey as part of the analyses of any lands to be transferred through the proposed action. Such field surveys were labor and cost intensive and mandated that the project timeline be extended.

The 2005 Wyoming State Legislature authorized $1,200,000 in additional funds to complete the Westside NEPA analysis. This included increased costs incurred by the consultants in the preparation of the Environmental Impact Statement (mandated Class III Cultural Resource Surveys were completed during the 2005 and 2006 field seasons). The fish protocol was finalized and fish sampling completed, the wetland and vegetation fieldwork conducted, the hydraulic engineering of the necessary pump stations and delivery systems conceptualized, and alternatives screening performed. The Westside NEPA analysis has been ongoing since 2007, with the Draft Environmental Impact Statement document completed December, 2007 and a 45-day comment period having taken place. During 2008 and 2009, the responses to the draft EIS comments were completed, the cultural resources report was being finalized, and the mitigation plan prepared. It is expected that the final EIS document will be issued by the BLM during the first quarter of 2010. The BLM Record of Decision will follow pending the Wyoming State Historic Preservation Office's concurrence with the cultural report.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

171. PROJECT: Wheatland ID Master Plan

LEVEL: I
SPONSOR: Wheatland Irrigation District
LOCATION: Platte County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	II	$300,000	2010

PROJECT INFORMATION:
Wheatland Irrigation District serves 54,180 acres with a conveyance system from Sand Lake above Arlington to points east of Wheatland. The district has looked at major problem areas in their district and, with the help of the WWDC, has upgraded portions of their system The district is now ready to implement additional water conservation upgrades. The first step will be to develop a GIS based system inventory of existing facilities, completed improvements, and future potential upgrades. The new system upgrades will include: headgates, check structures, canal lining, pipelines, measurement

structures, re-regulation reservoirs and hydropower. To go along with these upgrades, system automation improvements and a review of system operations will be completed. The Level I report will be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

172. PROJECT: Wheatland Irrigation District Re-regulating Reservoirs

LEVEL: III
SPONSOR: Wheatland Irrigation District
LOCATION: Platte, Albany, Carbon County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	II	$100,000	2006
Level III	105	2006	II	$150,080*	2010

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT DESCRIPTION:
In 2005, the WWDC analyzed several system upgrades including the system canals and four re-regulating reservoirs. In 2006, the sponsor received an appropriation to construct two re-regulation reservoirs. The WWDC financed the materials and engineering and the District provided the labor and equipment for this project, including all earthwork.

Construction is nearly completed with the only remaining component being the installation of a Rubicon gate in the spring of 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

173. PROJECT: Wheatland Master Plan

LEVEL: I
SPONSOR: Town of Wheatland
LOCATION: Platte County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	66	2009	I	$150,000	2010

PROJECT INFORMATION:
The Town of Wheatland proposed a project consisting of the drilling, construction, development, testing, completion, and tie-in of the No. 10 well for the Town of Wheatland. The Town believed that the well was needed to supplement the water supply. The Town currently has eight other wells capable of producing in the range of 300 to 550 gpm per well. The Town recently completed the Black Mountain Well No. 3 and it produces 350 gpm. Since drilling of the Black Mountain Well No. 3, the Black Mountain Well No. 2 had

to be rehabilitated. After rehabilitation, the Black Mountain Well No. 2 only produces 300 gpm instead of the previous 600gpm. The proposed No. 10 Well would have been located near the two storage tanks on the main system.

The Town's average water usage per capita per day is 360 gallons. This usage is well above the state average of 260 gallons per day. In addition, the monthly water bill for 20,000 gallons of water is $10.85, well below the state average of about $38.67 for 20,000 gallons. The WWDO questioned the high per capita use and low water rates, which cast doubt if the new well was necessary. After discussion with the Town, it was agreed that a master plan would be helpful to the town to address these issues as well as establishing its water source priorities. The 2009 Level I study is underway and should be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

174. PROJECT: Willwood Rehabilitation 2009

LEVEL: III
SPONSOR: Willwood Irrigation District
LOCATION: Park and Big Horn County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	75	2005	II	$50,000	2006
Level II	85	2007	II	$250,000	2008
Level II	33	2008	II	$150,000	2010
Level III	38	2009	II	$284,000*	2014

*100% grant for invoiced materials. The sponsor is responsible for all other project costs.

PROJECT INFORMATION:
As a result of the Level II study, the sponsor requested grant funds to finance 100% of the invoiced materials to replace an open gravity flow ditch with pipe. The sponsor will fund all of the engineering services and all of the construction costs excluding invoiced materials.

The canal experiences significant water loss due to seepage and evaporation. There are 5 farm turnouts in this segment and,in addition to the pipe installation, measuring weirs will be installed to help regulate water.
Construction has begun on this project and should be complete prior to the 2010 irrigation season.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

175. PROJECT: Willwood Rehabilitation 2010

LEVEL: II
SPONSOR: Willwood Irrigation District
LOCATION: Park County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	75	2005	II	$50,000	2006
Level II	85	2007	II	$250,000	2008
Level II	33	2008	II	$150,000	2010

PROJECT INFORMATION:

The Willwood Irrigation District requested a study to evaluate the repair or replacement alternatives of the Willwood diversion dam. The dam is located on the Shoshone River approximately 4 miles southwest of Ralston. The dam was built in 1924, is critical to the delivery of water to the district, and is in serious need of rehabilitation.

In 2007, the Willwood Irrigation District experienced a mechanical failure of the last functional sluice gate on the diversion dam. The sluice gate has been repaired, however, the sponsor requested additional funds to accelerate the analysis of the silt removal behind the dam, and ultimately the dam rehabilitation.

The dam and silt analysis portion of the project was completed in 2008 and conceptual designs have been completed. It is the recommendation that approximately 365,000 cubic yards of sediment be removed from behind the dam. The sponsor has not applied for a Level III dam rehabilitation project at this time and continues to look for affordable options to remove the silt.

The Level II was completed in 2009. Willwood applied for two projects, a hydropower project and a Lateral 40 pipeline project. Due to the low priority of the hydropower project and insufficient funds in the program, the WWDC denied the requested funding for the hydropower project. However, the funding for the lateral 40 project was approved. The project consists of converting 8,600 feet of open ditch into a 30" PVC covered pipe.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends the project be advanced to Level III status in the Rehabilitation Program with an appropriation of $746,000. The funding would serve as a materials only grant. The sponsor is responsible for all other project costs.

176. PROJECT: Wind/Bighorn River Basin Plan Update

LEVEL: I
SPONSOR: WWDC
LOCATION: Wind/Bighorn River Basin
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	$500,000	2010

PROJECT DESCRIPTION:

In 1999, the legislature initiated the Statewide Water Planning Process with its appropriation to fund the Bear and Green River Basin Plans. Those plans were completed in January 2001. The 2000 Legislature appropriated funding for the Powder/Tongue River Basins, and the Northeast Wyoming River Basins Plans. Those plans were completed in

February 2002. The next basin plans undertaken were the Wind/Bighorn and the Snake/Salt River Basins and they were completed in 2003. The Platte River Basin Plan was funded in 2003 and completed in May of 2006.

With completion of the Platte River Plan, the first round of river basin plans was complete. The State Framework Water Plan, which updates the 1973 framework plan and consolidates information from the seven basin plans, was initiated in 2005 and completed in 2007. In 2008, the Wyoming Water Development Office requested $500,000 to update the Wind/Bighorn (WB) River Basin Plan, which will include necessary updates, improved surface water modeling, and a groundwater analysis of the basin.

The project began in June 2008 with a February 2010 completion date. Additionally, an agreement was developed between the Wyoming State Geological Survey, in cooperation with the U.S. Geological Survey and the University of Wyoming, Water Resources Data System, to conduct a groundwater resources evaluation in the basin. Work on the groundwater evaluation began in June 2008 and will be completed in early 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

177. PROJECT: Wind River Glaciers

LEVEL: I
SPONSOR: State of Wyoming
LOCATION: Fremont and Sublette Counties
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	I	$225,000	2008

PROJECT INFORMATION:
The Wind River Glaciers are an important source of runoff and their variation can be used to evaluate climatic change and drought scenarios. However, specific information on the contribution of glacial melt to streamflow and climatic influences on glacial variability had not been addressed. The objectives of this three-year Level I study were to: (1) conduct an extensive field assessment and survey of Dinwoody Glacier to quantify glacial recession and provide ground based field data to supplement remote sensing, aerial photography, modeling, and data analyses efforts; (2) evaluate Wind River Range glacial runoff including glacial mass losses and the contribution of glacial melt to water-year streamflow; and (3) examine climatic controls on upper Green River Basin and upper Wind-Bighorn River Basin hydrology (e.g., precipitation, snowfall, streamflow) and assess how natural, interdecadal variability might impact glacial variability.

Results of the study include: (a) snowfall spatial and temporal variability were similar on each side of the continental divide, (b) the Pacific Decadal Oscillation signal was not detected but a significant El Niño-Southern Oscillation signal was detected in streamflow and snow water equivalent, (c) if only the 20th century were to be considered, the descriptive statistics such as median and mean streamflows will be artificially elevated relative to the same statistics of the entire reconstructed record, (d) the WRR glaciers were mostly in recession during the 1966-2006 period, (e) the average change in surface area for the 44 primary glacial complexes of the WRR from 1966 to 2006 was a decrease of 42%,

(f) WRR glaciers have contributed to annual streamflow, especially on the east slope, and to a greater extent to late summer/early fall (July, Aug, Sept) flows during the 1966-2006 period, (g) contributions of glacial melt to annual streamflow ranged from approximately 0.5% to 12% in the 3 primary glaciated WRR watersheds for the period 1966-2006, (h) contributions of glacial melt to July-Sept streamflow ranged from approximately 1% to 22% in the three primary glaciated WRR watersheds for the period 1989-2001/2006, (i) impacts of the glaciers on watershed streamflow during the months of July, August, and September were greater than that due to ice melt alone, with a glacial contribution as high as 40% of the July-Sept watershed streamflow through glacial melt and delay of the seasonal hydrograph, and (j) predicting future trends is difficult—if the WRR glaciers were to continue to retreat, the valuable source of water they provide would continue to be reduced—historically, glaciers tend to cycle between growth and retreat. This project was completed November, 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

178. PROJECT: Wind River Irrigation Rehabilitation

LEVEL: III
SPONSORS: Joint Business Council for the Eastern Shoshone and Northern Arapaho Tribes
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	118	2004	II	$3,500,000*	2010

* 50% grant

PROJECT INFORMATION:
The Bureau of Indian Affairs operated Wind River Irrigation Project is in very poor shape, with over 50 million dollars in deferred maintenance. According to a 1994 study, over 1,200 structures (60% of the structures) need repair or replacement, and 190 miles of canals and laterals (45%) need repair or reconstruction. Structure failures are common and failure of segments of the water delivery system is imminent. In areas, the efficiency of the delivery system is 35%.

This is first phase of a long-range plan to rehabilitate the system. The Tribes have received $3.5 million to spend over the next three years. These funds will be used to match the states funds. The first phase focuses on replacing or repairing the most important structures (primarily major canal head gates) with the highest likelihood of failure.

No action on the project occurred during 2004, 2005, 2006 and 2007. In 2007, the legislation was modified to allow the Joint Business Council for the Eastern Shoshone and Northern Arapaho Tribes or the Eastern Shoshone Business Council or the Northern Arapaho Business Council to be the sponsor. In 2008, the project was on hold pending tribal approval of the project agreements by the Councils. The councils delegated authority for the projects to the Water Resources Control Board of the Wind River Reservation. The board secured construction bids for four diversion structures in mid 2009 and construction is scheduled to start in early 2010

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

179. PROJECT: Worland Eastside Transmission Line

LEVEL: III
SPONSOR: City of Worland
LOCATION: Washakie County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	105	2006	II	$1,807,500*	2014
Level III	38	2009	II	$842,500*	2014

* 50% grant

PROJECT INFORMATION:
The City of Worland has an existing 24" asbestos cement water transmission pipeline that is located within the U.S. Highway 16 right-of-way. This section of highway will be reconstructed in the near future. Since this pipeline has minimal soil cover, it will be damaged during construction activities, so the Wyoming Highway Department is requiring that the pipeline be relocated outside of the construction activity zone. This necessitated that the pipeline be constructed on private property for most of the 3-mile impact area.

The 2009 legislature provided additional funding and time to complete the project. Construction was anticipated to be completed in 2009, but the city and land owners could not agree with the terms for easement acquisition, so condemnation proceedings have been initiated. Construction is now expected to be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

180. PROJECT: Wright Master Plan

LEVEL: I
SPONSOR: Wright Water and Sewer District
LOCATION: Campbell County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	$100,000	2010

PROJECT INFORMATION:
The Wright Water and Sewer District requested a Level I Master Plan to conduct system modeling and an evaluation of their current water system including expanded service areas, water supply source, water storage, population projections, water rate analysis, and cost estimates. Planning is necessitated by population growth due to regional energy development. The report will be completed in the spring of 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

181. **PROJECT:** **Wright Well**
LEVEL: Level I
SPONSOR: Wright Water and Sewer District
LOCATION: Campbell County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	$100,000	2010

PROJECT DESCRIPTION:
The Wright Water and Sewer District water system serves approximately 2,500 people living in the Town of Wright and the adjacent area. The source groundwater for the District is supplied from five wells completed into the Paleocene Fort Union Formation. The District currently has two welded steel storage reservoirs with capacities of 0.5 million and 1.0 million gallons.

The recently completed Wright Master Plan suggests that the Town will periodically need additional wells to meet projected demands. It is recommended that the new Level II well be designed for construction using reverse circulation methods. If the well is successful in increasing yield over previous designs, it will reduce the number of wells needed in the future.

The funding request is for construction of one new deep well into the Fort Union Formation. A future Level III project may be needed to provide for construction of a well house with disinfection equipment, a 1.0-million gallon storage tank, and transmission pipeline to connect the new tank to the existing distribution system.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the Wright Well project be advanced in the New Development Program at Level II status with an appropriation of $1,100,000.

182. **PROJECT:** **Yoder Ground Water**
LEVEL: II
SPONSOR: Town of Yoder
LOCATION: Goshen County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	33	2008	I	$400,000	2010

PROJECT DESCRIPTION:
The Town of Yoder is a small farming community located in Goshen County, approximately 12 miles southwest of Torrington on State HWY 152. With the support of WWDC Ground Water Exploration Grant Program and Level III appropriations (1986, 1987, 1990, and 1991, respectively), the Town of Yoder established a well field and constructed a transmission line.

The Town requested this study to determine optimal well siting/design to avoid radionuclide, uranium, and arsenic constituents that are natural contaminants residing at varying concentrations in the Chadron Formation (lower member of White River Group) aquifer. Under an EPA advisory, the Town has abandoned its use of Yoder Well No. 1 because of high uranium and arsenic levels. The Yoder Well #3 has exceeded the MCL for gross alpha activity in its last sampling. The Yoder Wells #2 and #4 have consistently maintained production within safe drinking water standards but still contain measurable radionuclide and uranium levels. This Level II study will include an exploration program to determine the feasibility of a new municipal well or well field. The study is also considering economical treatment options for a worst-case scenario of regional declining water quality.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required at this time.

CHAPTER 4. COMPLETED PROJECT REPORTS

Completed Planning (Level I and II) Projects

If you require information on any of the following reports, please contact WWDC or visit our web site at www.wwdc.state.wy.us. Many of these reports are available on the web site and can be reviewed or downloaded:

01. Aladdin Water Supply
02. Alpine Master Plan Update
03. Alta Master Plan/Test Wel1
04 Arapahoe Master Plan
05. Beulah Water Supply
06. Big Valley & Crossed Arrows Improvement District Water Supply
07. Black Willow Water Supply
08. Boulter Lake Enlargement
09. Bridger Valley Level II Reservoir Project
10. Bridger Valley Water Supply
11. Buffalo, Sheridan Area Water Supply System, and Lake DeSmet Regional Master Plan
12. Canyon/Newcastle Area Water Supply
13. Casper Alcova GIS
14. CBM Aquifer Storage and Retrieval
15. Cheyenne Hydro Power
16. Cheyenne/Laramie County Water Service Area
17. Clearmont CBM Impact
18. Cody Canal Irrigation District Hydropower
19. Cokeville Reservoir
20. Corner Mountain Test Well
21. Cottonwood/Grass Creek Watershed Management Plan
22. Crook County Reservoirs and Water Management
23. Crow Creek Groundwater Recharge
24. Crowheart Area/Dinwoody Canal System
25. Dayton Raw Water Irrigation
26. Dixon Water Supply
27. Douglas Ground Water
28. Dubois Regional Water Supply
29. Eight Mile-High Plains Well
30. Encampment/Sierra Madre Water Supply
31. Enterprise Conservation Program
32. Fort Laramie Water Supply
33. Frannie Raw Water
34. Frannie Well Rehabilitation
35. Goshen Irrigation District Master Plan 2006
36. Goshen Re-regulating Reservoir
37. Granger Water Supply
38. Green River Groundwater Recharge and Alternate Storage
39. Green River-Rock Springs-Sweetwater County Master Plan
40. Greybull Raw Water
41. Greybull Wells Rehabilitation
42. Hawk Springs Water Supply
43. Heart Mountain ID Return Flow Study
44. Hoback Junction Rural Regional Master Plan
45. Hoback Junction Water Supply

46. Hopkins Producers Irrigation District Reservoir Study
47. Hot Springs State Park, Big Springs Study
48. Hyattville Water Supply
49. Irrigation Hydro Power
50. Jons Drop Hydropower
51. Kaycee Well & Storage
52. Kennington Springs Level II Study
53. Kirby Area Water Supply Study
54. Kirby Creek Water Management Plan
55. Lander Paleozoic Well
56. LeClair/Riverton Valley Irrigation Storage
57. Lodgepole Creek ASR
58. Lovell ID Hydro Power
59. Lysite Water Supply
60. Manville Water Supply
61. Middle Fork Dam
62. Middle Fork Powder Watershed Management Plan
63. North Canal-Grover
64. North Cheyenne Master Plan
65. Northeast Wyoming Interactive Database
66. Opal Regional Water Supply
67. Owl Creek Irrigation District Conservation Study
68. Owl Creek Irrigation Master Plan
69. Owl Creek Water Supply
70. Pinedale Hydro Power
71. Platte-Goshen Regional Master Plan
72. Popo Agie Watershed Management Plan
73. Powder River Water Supply
74. Ray Lake Enlargement
75. Rock Springs East Water Supply
76. SEO/Lusk Area Ground Water
77. Sheridan/Veterans Affairs Medical Center (VAMC) Water Supply Study
78. Smith's Fork Dam
79. South Garden Creek Water Supply
80. State Stream Gage System
81. Tensleep/Hyattville Master Plan
82. Tensleep Water Supply
83. Thermopolis Storage and Raw Water
84. Three Horses Watershed Study
85. Upper Green River Westside Storage
86. Upper Wind River Storage
87. Wagner Cherokee Irrigation Rehabilitation
88. Washakie County Safety
89. Water Value Study
90. Weather Modification – Salt River and Wyoming Ranges
91. Wheatland ID System Phase II
92. Worland Area Irrigated Lands GIS
93. Worland Eastside Transmission Line
94. Worland Wells Test
95. York/South Side Ditch Master Plan

Completed Construction (Level III) Projects

01. PROJECT: **Afton Springs Water Supply**

SPONSOR:	Town of Afton
LOCATION:	Lincoln County
PROGRAM:	Rehabilitation
APPROPRIATION:	$450,000
ACTUAL EXPENDITURES:	$450,000
DESCRIPTION:	Renovation of Periodic Springs intake and pipeline to protect from rock fall
ENGINEER:	BRS, Inc.; Riverton, Wyoming
CONTRACTOR:	Roberts Construction; Evanston, Wyoming Kilroy and Company; Alpine, Wyoming
YEAR COMPLETED:	2001
SESSION LAW YEAR:	2000

02. PROJECT: **Afton Water Supply**

SPONSOR:	Town of Afton
LOCATION:	Lincoln County
PROGRAM:	Rehabilitation
APPROPRIATION:	$2,600,000
ACTUAL EXPENDITURES:	$2,518,911
DESCRIPTION:	Spring renovation, pipeline, storage tank, well
ENGINEER:	Sunrise Engineering; Afton, Wyoming
CONTRACTOR:	Kilroy Construction; Alpine, Wyoming Snyder Construction; Lyman, Wyoming AG SERVICES, Inc.; Blackfoot, Idaho
YEAR COMPLETED:	1994
SESSION LAW YEAR:	1991

03. PROJECT: **Afton Well**

SPONSOR:	Town of Afton
LOCATION:	Lincoln County
PROGRAM:	New Development
APPROPRIATION:	$250,000
ACTUAL EXPENDITURES:	$250,000
DESCRIPTION:	Well house, meter, well controls and pipeline
ENGINEER	Sunrise Engineering; Afton, Wyoming
CONTRACTOR:	Johnson Excavation, Inc.; Inkom, Idaho
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2006

04. PROJECT: **Airport Bench Water Supply**

SPONSOR:	Airport Bench W&S District
LOCATION:	Big Horn County (Greybull)
PROGRAM:	New Development
APPROPRIATION:	$225,000
ACTUAL EXPENDITURES:	$225,000
DESCRIPTION:	Pipeline, storage tank
ENGINEER:	Engineering Associates; Cody, Wyoming
CONTRACTOR:	Whitlock Construction; Powell, Wyoming
YEAR COMPLETED:	1995
SESSION LAW YEAR:	1991

05. PROJECT: **Albin 2005 Well**

SPONSOR:	Town of Albin
LOCATION:	Laramie County
PROGRAM:	New Development
APPROPRIATION:	$227,280
ACTUAL EXPENDITURES:	$155,274.35
DESCRIPTION:	Incorporate well into municipal system
ENGINEER:	BenchMark Engineering, Cheyenne, Wyoming
CONTRACTOR:	Strong Construction, Inc., Torrington, Wyoming
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2005, 2006

06. ROJECT: **Alpine Raw Water**

SPONSOR:	Town of Alpine
LOCATION:	Lincoln County
PROGRAM:	New Development
APPROPRIATION:	$ 41,700
ACTUAL EXPENDITURES:	$ 7,408.84
DESCRIPTION:	Pipeline, storage tank
ENGINEER:	Engineering Associates; Cody, Wyoming
CONTRACTOR:	Whitlock Construction; Powell, Wyoming
YEAR COMPLETED;	3/15/05
SESSION LAW YEAR:	2002

07. PROJECT: **Alpine Water Supply**

SPONSOR:	Town of Alpine
LOCATION:	Lincoln County
PROGRAM:	New Development
APPROPRIATION:	$700,000
ACTUAL EXPENDITURES:	$700,000
DESCRIPTION:	Pipeline, storage tanks, well
ENGINEER:	Sunrise Engineering; Afton, Wyoming
CONTRACTOR:	Kilroy Construction; Alpine, Wyoming ABC Tank, Salt Lake City, Utah

08. PROJECT: **Alta Water Supply**

SPONSOR:	Targhee Towne Water District
LOCATION:	Teton County
PROGRAM:	New Development
APPROPRIATION:	$466,000
ACTUAL EXPENDITURES:	$418,670.62
DESCRIPTION:	Two well completions, well houses and pipeline
ENGINEER:	Rendezvous, Engineering, Jackson, Wyoming
CONTRACTOR:	Westwood Curtis Construction, Inc., Jackson Wyoming
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2005

09. PROJECT: **American Road Water Supply Project**

SPONSOR:	American Road Water and Sewer District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$250,000
ACTUAL EXPENDITURES:	$132,010
DESCRIPTION:	New Well
ENGINEER:	Wester-Wetstein Associates; Laramie, Wyoming
CONTRACTOR:	Ruby Drilling, Gillette, Wyoming
YEAR COMPLETED;	1999
SESSION LAW YEAR:	1997

10. PROJECT: **Antelope Valley Storage Facility**

SPONSOR:	Antelope Valley Improvement & Service Dist.
LOCATION:	Campbell County
PROGRAM:	Rehabilitation
APPROPRIATION:	$850,000
ACTUAL EXPENDITURES:	$378,621
DESCRIPTION:	Storage Tank
ENGINEER:	Bruce Engineering Services; Gillette, Wyoming
CONTRACTOR:	L&T Fabrication; Gillette, Wyoming
YEAR COMPLETED:	1997
SESSION LAW YEAR:	1994

11. PROJECT: **Antelope Valley Water Supply**

SPONSOR:	Antelope Valley Improvement & Service District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$102,000
ACTUAL EXPENDITURES:	$94106.55
DESCRIPTION:	New Well
ENGINEER:	Wester-Wetstein and Associates, Laramie, WY
CONTRACTOR:	Michael's Construction, Gillette, Wyoming
YEAR COMPLETED:	2004
SESSION LAW YEAR:	2000

12. PROJECT: **Baggs Water Supply**

SPONSOR:	Town of Baggs
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$92,000 & $28,000 = $120,000
ACTUAL EXPENDITURES:	$114,518.81
DESCRIPTION:	Construction of stream bed infiltration intake and pipeline to provide for a more reliable raw water source from the river.
ENGINEER:	A.V.I. Professional Corporation, Cheyenne, Wyoming
CONTRACTOR:	High Plains Construction, Inc., Mills, Wyoming
YEAR COMPLETED:	2003
SESSION LAW YEAR:	2001 & 2003

13.	**PROJECT:**	**Baggs Water Supply**
	SPONSOR:	Town of Baggs
	LOCATION:	Carbon County
	PROGRAM:	New Development
	APPROPRIATION:	$331,500
	ACTUAL EXPENDITURES:	$331,500
	DESCRIPTION:	Transmission pipeline
	ENGINEER:	Lidstone and Associates; Fort Collins CO
	CONTRACTOR:	Edward Hawley, LLC; Torrington, WY
	YEAR COMPLETED:	2009
	SESSION LAW YEAR:	2005
14.	**PROJECT:**	**Bairoil Water Supply**
	SPONSOR:	Town of Bairoil
	LOCATION:	Carbon County
	PROGRAM:	New Development
	APPROPRIATION:	$480,000
	ACTUAL EXPENDITURES:	$445,040
	DESCRIPTION:	To develop an alternative groundwater supply to the Battle Springs Pipeline.
	ENGINEER:	Wester-Wetstein & Associates, Laramie, Wyoming Camp Creek Engineering, Laramie, Wyoming
	CONTRACTOR:	Three Sons, Hanna Wyoming Bartlett Oilfield Services, Bairoil Wyoming Bruce Thayer, Rawlins Wyoming
	YEAR COMPLETED:	2006
	SESSION LAW YEAR:	2000, 2004
15.	**PROJECT:**	**Basin Area Water Supply (formerly Manderson Water Supply)/Basin Gardens Water Project**
	SPONSOR:	South Big Horn County Water Supply JPB
	LOCATION:	Big Horn County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$670,000+$5,360,000+$200,000+ $559,450=$6,789,450
	ACTUAL EXPENDITURES:	$6,566,455
	DESCRIPTION:	The project consists of wells, storage and transmission pipelines to Manderson, Basin and the surrounding areas.
	ENGINEER:	Graham, Dietz and Associates, Cody, Wyoming
	CONTRACTOR:	Cyclone Drilling, Gillette, Wyoming Larry's, Inc. Gillette, Wyoming Brandon Construction, Inc., Powell, Wyoming Lamax Construction, Inc. Lamax Construction, Inc.
	YEAR COMPLETED:	1995-2006
	SESSION LAW YEAR:	1995, 1996, 1998, & 2003

16. PROJECT: **Basin Water Supply**

SPONSOR:	Town of Basin
LOCATION:	Big Horn County
PROGRAM:	New Development
APPROPRIATION:	$1,750,000
ACTUAL EXPENDITURES:	$1,152,204
DESCRIPTION:	Pipeline, reservoirs
ENGINEER:	Civil Engineering Professionals, Inc.; Casper, Wyoming
CONTRACTOR:	Larry's Inc.; Gillette, Wyoming

17. PROJECT: **Bedford Water Supply**

SPONSOR:	Bedford Water and Sewer District
LOCATION:	Lincoln County
PROGRAM:	New Development
APPROPRIATION:	$1,300,000
ACTUAL EXPENDITURES:	$1,151,230
DESCRIPTION:	Springs, well, pipeline
ENGINEER:	Forsgren Associates, Inc.; Evanston, Wyoming
CONTRACTOR:	Snyder Construction, Inc.; Evanston, Wyoming

18. PROJECT: **Big Horn Basin Rural Water Supply**

SPONSOR:	Northwest Rural Water District
LOCATION:	Park and Big Horn Counties
PROGRAM:	New Development
APPROPRIATION:	$11,410,000
ACTUAL EXPENDITURES:	$11,410,000
DESCRIPTION:	Rural domestic water supply for rural Park and Big Horn Counties residents
ENGINEER:	Engineering Associates; Cody, Wyoming
CONTRACTOR:	Several

19. PROJECT: **Big Horn Canal Improvements**

SPONSOR:	Big Horn Canal Irrigation District
LOCATION:	Washakie and Big Horn Counties
PROGRAM:	Rehabilitation
APPROPRIATION:	$693,000
ACTUAL EXPENDITURES:	$485,420
DESCRIPTION:	Elk Creek Siphon
ENGINEER:	Natural Resources Conservation Service Donnell & Allred, Inc.; Worland, Wyoming
CONTRACTOR:	Big Horn Redi-Mix; Greybull, Wyoming
YEAR COMPLETED:	1998
SESSION LAW YEAR:	1995

20. PROEJECT: **Big Horn Spillway Improvement**

SPONSOR:	Big Horn Canal Irrigation District
LOCATION:	Washakie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$120,000
ACTUAL EXPENDITURES:	$120,000
DESCRIPTION:	Crooked S Wasteway
ENGINEER:	Soil Conservation Service; Worland, Wyoming
CONTRACTOR:	Big Horn Redi-Mix; Greybull, Wyoming
YEAR COMPLETED:	1995
SESSION LAW YEAR:	1993

21. PROJECT: **Big Piney Water Supply**

SPONSOR:	Town of Big Piney
LOCATION:	Sublette County
PROGRAM:	New Development
APPROPRIATION:	$410,000
ACTUAL EXPENDITURES:	$265,784
DESCRIPTION:	Transmission pipeline
ENGINEER:	Jorgensen Engineering; Jackson, Wyoming
CONTRACTOR:	Eiden's Construction; Marbleton, Wyoming
YEAR COMPLETED:	1998
SESSION LAW YEAR:	1995

22. PROJECT: **Big Piney Water Supply Project**

SPONSOR:	Town of Big Piney
LOCATION:	Sublette County
PROGRAM:	New Development
APPROPRIATION:	$512,500
ACTUAL EXPENDITURES:	$492, 865.93
DESCRIPTION:	Storage tank, transmission pipeline, metering station
ENGINEER:	Rendezvous, Engineering, Jackson, Wyoming
CONTRACTOR:	Transmission line – Rice-Kilroy Construction, Dubois, WY Storage tank – Caldwell Tanks, Inc., Louisville, KY Controls – PFIX Controls, Alabaster, AL Meter Building – Moose Valley Construction, Big Piney, WY
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2003, 2005

23. PROJECT: **Boulder Irrigation District**

SPONSOR:	Boulder Irrigation District Board
LOCATION:	Sublette County
PROGRAM:	Rehabilitation
APPROPRIATION:	$42,815
ACTUAL EXPENDITURES:	$52,815
DESCRIPTION:	Repairs to diversion structure
ENGINEER:	NA
CONTRACTOR:	NA

24. PROJECT: **Bridger Valley Big Hill Transmission Line**

SPONSOR:	Bridger Valley Joint Powers Board
LOCATION:	Uinta County
PROGRAM:	New Development
APPROPRIATION:	$67,600
ACTUAL EXPENDITURES:	$67,600
DESCRIPTION:	To extend a transmission line to serve Big Hill.
ENGINEER:	Uinta Engineering & Surveying, Inc., Evanston, Wyoming
CONTRACTOR:	SCI, Inc., Lyman Wyoming
YEAR COMPLETED:	2007
SESSION LAW YEAR:	2005

25. PROJECT: **Bridger Valley Intake Structure Rehabilitation**

SPONSOR**:**	Bridger Valley Joint Powers Board
LOCATION:	Uinta County
PROGRAM:	Rehabilitation
APPROPRIATION:	$505,000
ACTUAL EXPENDITURES:	$505,000
DESCRIPTION:	Diversion/intake structure, raw water transmission line, 0.5 MG finished water storage tank
ENGINEER:	Uinta Engineering & Surveying, Inc.
YEAR COMPLETED:	Intake/diversion structure – 2003 Transmission line – 2003 Storage tank - 2004
CONTRACTOR:	Intake/diversion structure – X-It Construction Transmission line – SCI, Inc.
SESSION YEAR LAW:	2001 and 2002

26. PROJECT: **Bridger Valley Pipeline**

SPONSOR:	Bridger Valley Joint Powers Board
LOCATION:	Uinta County
PROGRAM:	New Development
APPROPRIATION:	$625,000
ACTUAL EXPENDITURES:	$577,466
DESCRIPTION:	Transmission line
ENGINEER:	Uinta Engineering & Surveying; Evanston, Wyoming
CONTRACTOR:	Snyder Construction; Lyman, Wyoming
YEAR COMPLETED:	1994
SESSION LAW YEAR:	1991

27. PROJECT: **Brooks Hat Six Water Supply**

SPONSOR:	Town of Evansville
LOCATION:	Natrona County
PROGRAM:	New Development
APPROPRIATION:	$150,000
ACTUAL EXPENDITURES:	$150,000
DESCRIPTION:	Transmission pipeline
ENGINEER:	Hibsman Associates; Casper, Wyoming
CONTRACTOR:	Hedquist Construction; Casper, Wyoming
YEAR COMPLETED:	1994
SESSION LAW YEAR	1993

28. PROJECT: **Buffalo Bill Dam and Reservoir**

SPONSOR:	State of Wyoming
LOCATION:	Park County
PROGRAM:	New Development
APPROPRIATION:	$52,000,000
ACTUAL EXPENDITURES:	$52,000,000
DESCRIPTION:	Dam enlargement and power facilities
ENGINEER:	Bureau of Reclamation; Cody, Wyoming
CONTRACTOR:	ASI Moltz; Cody, Wyoming

29. PROJECT: **Buffalo Hydropower**

SPONSOR:	Town of Buffalo
LOCATION:	Johnson County
PROGRAM:	New Development
APPROPRIATION:	1,075,000
ACTUAL EXPENDITURES:	$1,045,033
DESCRIPTION:	Installation of a hydropower unit
ENGINEER:	States West Water Resources, Cheyenne, Wyoming
CONTRACTOR:	Sulzer Canada, Ontario, Canada; Larry's Inc, Gillette, Wyoming; ASI Moltz, Cody, Wyoming
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1992,1996

30. PROJECT: **Buffalo Municipal Reservoir**

SPONSOR:	Town of Buffalo
LOCATION:	Johnson County
PROGRAM:	New Development
APPROPRIATION:	$13,600,000
ACTUAL EXPENDITURES:	$13,232,084
DESCRIPTION:	Construction of a municipal water supply reservoir
ENGINEER:	States West Water Resources, Cheyenne, Wyoming
CONTRACTOR:	ASI Moltz, Cody, Wyoming; Lamax Construction, Inc. Basin, Wyoming; Bartlett Construction, Hanna Wyoming
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1992,1996,1997

31. PROJECT: **Buffalo Raw Water Supply**

SPONSOR:	City of Buffalo
LOCATION:	Johnson County
PROGRAM:	New Development
APPROPRIATION:	$270,000
ACTUAL EXPENDITURES:	$270,000
DESCRIPTION:	Diversion facilities, pipeline
ENGINEER:	R.G. Stuckert & Associates; Buffalo, Wyoming
CONTRACTOR:	Venture Construction; Worland, Wyoming

32. PROJECT: **Buffalo Valley Water Supply**

SPONSOR:	Buffalo Valley Water District
LOCATION:	Teton County
PROGRAM:	New Development
APPROPRIATION:	$475,000
ACTUAL EXPENDITURES:	$454,711.14
DESCRIPTION:	80,000 gallon storage tank, well pump installation, chlorination facilities, valving, telemetry and transmission line
ENGINEER:	Rendezvous, Engineering, Jackson, Wyoming
CONTRACTOR:	Tucker Excavation, Moran, Wyoming
YEAR COMPLETED:	2005
SESSION LAW YEAR:	2001 and 2005

33. PROJECT: **Buffalo Water Storage Tank**

SPONSOR:	Town of Buffalo
LOCATION:	Johnson County
PROGRAM:	New Development
APPROPRIATION:	2003: $2,152,500.00 2005: $550,000.00 2006: $576,870.00
TOTAL:	$3,279,370.00
ACTUAL EXPENDITURES:	$2,938,260.47
DESCRIPTION:	Storage tank and trans0000mission pipelines
ENGINEER:	States West, Cheyenne, Wyoming
CONTRACTOR:	Storage Tank: Reiman Corporation Pipeline: Western Municipal Construction
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2003, 2005, 2006

34. PROJECT: **Buffalo Water Supply**

SPONSOR:	City of Buffalo
LOCATION:	Johnson County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,000,000
ACTUAL EXPENDITURES:	$1,000,000
DESCRIPTION:	Diversion dam, pipeline
ENGINEER:	Grizzly Engineering, Inc.; Buffalo, Wyoming
CONTRACTOR:	Fletcher Construction; Sheridan, Wyoming

35. PROJECT: **Burlington Water Supply**

SPONSOR:	Town of Burlington
LOCATION:	Big Horn County
PROGRAM:	New Development
APPROPRIATION:	$360,000
ACTUAL EXPENDITURES:	$316,957
DESCRIPTION:	Transmission Pipeline and Well Pumps
ENGINEER:	MSE-HKM, Inc., Sheridan, Wyoming
CONTRACTOR:	Brandon Construction, Inc., Powell, Wyoming
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1996

36. PROJECT: **Carpenter Water Supply**

SPONSOR:	Carpenter Water and Sewer District
LOCATION:	Laramie County
PROGRAM:	New Development
APPROPRIATION:	$360,000
ACTUAL EXPENDITURES:	$328,620
DESCRIPTION:	Wells, pumps, controls, disinfection, storage, pipeline
ENGINEER:	States West Water Resources Corporation; Cheyenne, Wyoming
CONTRACTOR:	Town & Country Plumbing, Inc.; Burns, Wyoming
YEAR COMPLETED:	2000
SESSION LAW YEAR:	1997

37. PROJECT: **Casper Alcova**

SPONSOR:	Casper Alcova Irrigation District
LOCATION:	Natrona County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,263,000
ACTUAL EXPENDITURES:	$1,231,925
DESCRIPTION:	Canal lining
ENGINEER:	Soil Conservation Service
CONTRACTOR:	LaMax Construction; Basin, Wyoming Big Horn Redi-Mix, Greybull, Wyoming Central Contractors, Mills, Wyoming Casper Concrete, Casper, Wyoming Jerry's Irrigation, Powell, Wyoming Hedquist Construction, Casper, Wyoming 71 Construction, Casper, Wyoming
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1985

38. PROJECT: **Casper Alcova Ditch Rehabilitation**

SPONSOR:	Casper Alcova Irrigation District
LOCATION:	Natrona County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,174,800
ACTUAL EXPENDITURES:	$ 742,261
DESCRIPTION:	Pipe laterals 256-680&681, 128-170, pipe drop 239
ENGINEER:	Natural Resources Conservation Service, Casper, Wy. Inberg-Miller Engineers, Inc., Casper, Wyoming Worthington, Lenhart, and Carpenter, Inc., Casper, Wy.
CONTRACTOR:	Casper Alcova Irrigation District Pioneer Irrigation Co., Casper, Wyoming Lanphier, Inc., Lingle, Wyoming
YEAR COMPLETED:	2009
SESSION LAW YEAR:	2004, 2005, 2006

39. PROJECT: **Casper Alcova Tunnel Rehabilitation**

SPONSOR:	Casper Alcova Irrigation District
LOCATION:	Natrona County
PROGRAM:	Rehabilitation
APPROPRIATION:	$170,000
ACTUAL EXPENDITURES:	$ 85,000
DESCRIPTION:	Repair concrete cracks, Tunnels 3 & 4 Casper Canal
ENGINEER:	Inberg-Miller Engineers, Inc., Casper, Wyoming
CONTRACTOR:	Cook's Fabrication, Mills, Wyoming
YEAR COMPLETED:	2005
SESSION LAW YEAR:	2003

40. PROJECT: **Casper Effluent Water Supply**

SPONSOR:	City of Casper
LOCATION:	Natrona County
PROGRAM:	New Development
APPROPRIATION:	$600,000
ACTUAL EXPENDITURES:	NONE – Project terminated by Sponsor prior to design.
DESCRIPTION:	Irrigation project for the North Casper Recreation Complex utilizing wastewater treatment plant effluent.
ENGINEER:	N.A.
CONTRACTOR:	N.A.
YEAR COMPLETED:	N.A.
SESSION LAW YEAR:	2000

41. PROJECT: **Casper Raw Water Irrigation Supply Project**

SPONSOR:	City of Casper
LOCATION:	Natrona County
PROGRAM:	New Development
APPROPRIATION:	$452,500
ACTUAL EXPENDITURES:	$435,811
DESCRIPTION:	Raw water supply system from the North Platte river to irrigate soccer fields.
ENGINEER:	CEPI, Inc.; Casper, Wyoming
CONTRACTOR:	71 Construction; Casper, Wyoming
YEAR COMPLETED:	2007
SESSION LAW YEAR:	2004

42. PROJECT: **Casper Raw Water Supply**

SPONSOR:	City of Casper
LOCATION:	Natrona County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,600,000
ACTUAL EXPENDITURES:	$1,117,314
DESCRIPTION:	Diversion structure, dam rehabilitation, pipeline
ENGINEER:	Civil Engineering Professionals, Inc.; Casper, Wyoming
CONTRACTOR:	Lamax Construction, Inc.; Basin, Wyoming
YEAR COMPLETED:	1994
SESSION LAW YEAR:	1989

43. **PROJECT:** **Casper Zone II**

SPONSOR:	City of Casper
LOCATION:	Natrona County
PROGRAM:	New Construction
APPROPRIATION:	$3,188,000
ACTUAL EXPENDITURES:	$1,366,400.72
DESCRIPTION:	This project was constructed in two phases. The first phase consisted of a transmission pipeline that was installed as part of the 21st street extension. The second phase was the construction of the remainder of the transmission pipeline and water storage tank east of Casper.
ENGINEER:	Civil Engineering Professionals, Inc.
CONTRACTORS:	JTL Group Hedquist Construction, Inc.
YEAR COMPLETED:	2007
SESSION LAW YEAR:	2002

44. **PROJECT:** **Casper Zone II – Phase II**

SPONSOR:	City of Casper
LOCATION:	Natrona County
PROGRAM:	New Development
APPROPRIATION:	$1,300,000
ACTUAL EXPENDITURES:	$1,150,291.66
DESCRIPTION:	Construction of a transmission pipeline, storage tank and SCADA controls in the city's Zone II pressure zone.
ENGINEER:	Civil Engineering Professionals, Inc.
CONTRACTOR:	Andreen Hunt Construction, Inc.
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2005

45. **PROJECT:** **Centennial Water Supply**

SPONSOR:	Centennial Water and Sewer District
LOCATION:	Albany County
PROGRAM:	New Development
APPROPRIATION:	$315,000
ACTUAL EXPENDITURES:	$315,000
DESCRIPTION:	Wells, pumps, pipeline, storage
ENGINEER:	J.M. Montgomery; Laramie, Wyoming
CONTRACTOR:	Pete's Excavating; Torrington, Wyoming
YEAR COMPLETED:	1993
SESSION LAW YEAR:	1990

46. PROJECT: **Centennial Water Supply**

SPONSOR:	Centennial Water and Sewer District
LOCATION:	Albany County
PROGRAM:	New Development
APPROPRIATION:	$110,000
ACTUAL EXPENDITURES:	$110,000
DESCRIPTION:	Buried concrete water storage tank
ENGINEER:	Wester-Wetstein & Associates, Inc.; Laramie, Wyoming
CONTRACTOR:	Timberline Excavating, LLC; Laramie, Wyoming
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1999

47. PROJECT: **Chamberlain Reservoir**

SPONSOR:	LaPrele Irrigation District
LOCATION:	Converse County
PROGRAM:	Rehabilitation
APPROPRIATION:	$150,000
ACTUAL EXPENDITURES:	$117,241
DESCRIPTION:	Dam rehabilitation
ENGINEER:	Western Water Consultants; Laramie, Wyoming
CONTRACTOR:	Domino Construction; Laramie, Wyoming
YEAR COMPLETED:	1993
SESSION LAW YEAR:	1991

48. PROJECT: **Cheyenne King II Storage Facility**

SPONSOR:	City of Cheyenne
LOCATION:	Laramie County
PROGRAM:	New Development
APPROPRIATION:	$1,534,000
ACTUAL EXPENDITURES:	$1,510,000 (approx)
DESCRIPTION:	15 MG storage facility
ENGINEER:	Black & Veatch; Denver, Colorado
CONTRACTOR:	TIC; Casper, Wyoming
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1993

49. PROJECT: **Cheyenne Raw Water Supply**

SPONSOR:	City of Cheyenne
LOCATION:	Laramie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,800,000
ACTUAL EXPENDITURES:	$1,800,000
DESCRIPTION:	Irrigation of park lands
ENGINEER:	States West Water Resources Corporation, Cheyenne, Wyoming
CONTRACTOR:	Excel Construction, Sheridan, Wyoming
YEAR COMPLETED:	1999
SESSION LAW YEAR:	1997

50. PROJECT: **Cheyenne Raw Water Supply #2**

SPONSOR:	City of Cheyenne
LOCATION:	Laramie County
PROGRAM:	New Development
APPROPRIATION:	$6,800,000
ACTUAL EXPENDITURES:	$6,800,000
DESCRIPTION:	To extend a transmission line to serve Big Hill.
ENGINEER:	Black and Veatch, Aurora, Colorado
CONTRACTOR:	TCI Wyoming, Inc., Casper, Wyoming
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2003

51. PROJECT: **Cheyenne South Crow Dam Water Supply Rehabilitation Project**

SPONSOR:	City of Cheyenne
LOCATION:	Laramie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$35,000 + $715,000 = $750,000
ACTUAL EXPENDITURES:	$554,807.46
DESCRIPTION:	Rehabilitation to existing dam and controls.
ENGINEER:	States West Water Resources Corporation, Cheyenne, Wyoming
CONTRACTOR:	Moltz Constructors, Inc., Cody, Wyoming
YEAR COMPLETED:	2004
SESSION LAW YEAR:	2001 & 2002

52. PROJECT: **Cheyenne Stage I Rehabilitation**

SPONSOR:	City of Cheyenne
LOCATION:	Carbon and Albany Counties
PROGRAM:	Rehabilitation
APPROPRIATION:	$13,700,000
ACTUAL EXPENDITURES:	$13,307,212
DESCRIPTION:	Slip lining existing collection pipe and transmission line improvements
ENGINEER:	CH2M Hill, Denver, Colorado
CONTRACTOR:	Barcon Wyoming, Sheridan, Wyoming
YEAR COMPLETED;	1999
SESSION LAW YEAR:	1993,1995,1996

53. PROJECT: **Cheyenne Supply Pipeline**

SPONSOR:	City of Cheyenne
LOCATION:	Laramie County
PROGRAM:	New Development
APPROPRIATION:	$14,000,000
ACTUAL EXPENDITURES:	$14,000,000
DESCRIPTION:	To extend a transmission line to serve Big Hill.
ENGINEER:	Black and Veatch, Aurora, Colorado
CONTRACTOR:	TCI Wyoming, Inc., Casper, Wyoming
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2000

54. PROJECT: **Cheyenne Upper North Crow Reservoir**

SPONSOR:	City of Cheyenne
LOCATION:	Laramie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$3,500,000
ACTUAL EXPENDITURES:	$3,070,448
DESCRIPTION:	Dam rehabilitation
ENGINEER:	States West Water Resources Corporation; Cheyenne, Wyoming
CONTRACTOR:	Larry's Inc.; Gillette, Wyoming
YEAR COMPLETED:	1995
SESSION LAW YEAR:	1991

55. PROJECT: **Cheyenne Water (Stage II)**

SPONSOR:	City of Cheyenne
LOCATION:	Carbon County
PROGRAM:	New Development
APPROPRIATION:	$20,000,000
ACTUAL EXPENDITURES:	$20,000,000
DESCRIPTION:	Dams (2), collector pipeline
ENGINEER:	Banner Associates, Inc.; Laramie, Wyoming
CONTRACTOR:	Several

56. PROJECT: **Cheyenne Well Rehabilitation**

SPONSOR:	City of Cheyenne
LOCATION:	Laramie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,450,000
ACTUAL EXPENDITURES:	$1,450,000
DESCRIPTION:	Replace 15 wells in the municipal well field
ENGINEER:	Bearlodge Ltd., Sundance, Wyoming Wester-Wetstein & Associates, Laramie, Wyoming Weston Engineering, Inc, Laramie, Wyoming
CONTRACTOR:	Sargent Irrigation, Scottsbluff, Nebraska D.C. Drilling Co.; Lusk, Wyoming Weston Engineering, Inc, Upton, Wyoming Magee Trucking; Cheyenne, Wyoming Ward’s Well Service; Riverton, Wyoming
YEAR COMPLETED:	1997
SESSION LAW YEAR:	1988 and 1993

57. **PROJECT:** **Chugwater Water Supply**
SPONSOR: Town of Chugwater
LOCATION: Platte County
PROGRAM: New Development
APPROPRIATION: $1,341,800
ACTUAL EXPENDITURES: $1,302,436
DESCRIPTION: Two wells, new concrete storage tank, rehabilitation of the old concrete storage tank, pipelines
ENGINEER: States West Water Resources Corporation; Cheyenne, Wyoming
CONTRACTOR: Three Sons; Hanna, Wyoming
Sargent Irrigation Co., Inc; Scottsbluff, Nebraska
Richardson Construction; Cheyenne, Wyoming
D.C. Drilling, Inc.; Lusk, Wyoming
Kelly-Deines Irrigation, Inc; Gering, Nebraska
DATE COMPLETED: 2007
SESSION LAW DATE: 1999, 2003, 2005, 2006

58. **PROJECT:** **Chugwater Water Supply**
SPONSOR: Town of Chugwater
LOCATION: Platte County
PROGRAM: Rehabilitation
APPROPRIATION: $103,500
ACTUAL EXPENDITURES: $101,818
DESCRIPTION: Pipeline
ENGINEER: States West Water Resources Corporation; Cheyenne, Wyoming
CONTRACTOR: 71 Construction; Casper, Wyoming
DATE COMPLETED: 1998
SESSION LAW DATE: 1997

59. **PROJECT:** **Clearview Water Supply**
SPONSOR: Clearview Improvement and Service District
LOCATION: Sweetwater County
PROGRAM: New Development
APPROPRIATION: $245,000
ACTUAL EXPENDITURES: $167,500
DESCRIPTION: Pipeline
ENGINEER: Johnson-Fermelia Company, Inc.; Rock Springs, Wyoming
CONTRACTOR: Lamax Construction; Basin, Wyoming

60. **PROJECT:** **Cody Area Water Supply (Valley View)**
SPONSOR: City of Cody
LOCATION: Park County
PROGRAM: New Development
APPROPRIATION: $785,000
ACTUAL EXPENDITURES: $785,000
DESCRIPTION: Potable water service to Valley View
ENGINEER: Engineering Associates, Cody, Wyoming
CONTRACTOR: Harris Trucking**,** Cody, Wyoming
YEAR COMPLETED: 1999
SESSION LAW YEAR: 1996

61. PROJECT: **Cody Raw Water**

SPONSOR:	City of Cody
LOCATION:	Park County
PROGRAM:	Rehabilitation
APPROPRIATION:	$850,000
ACTUAL EXPENDITURES:	$714,060
DESCRIPTION:	Raw Water irrigation system rehabilitation
ENGINEER:	Engineering Associates, Cody, Wyoming
CONTRACTOR:	Brandon Construction, Inc., Wyoming
YEAR COMPLETED:	2000
SESSION LAW YEAR:	1997

62. PROJECT: **Cokeville Tri-Diversion Dam**

SPONSOR:	Cokeville Watershed Improvement District
LOCATION:	Lincoln County
PROGRAM:	Rehabilitation
APPROPRIATION:	$160,000
ACTUAL EXPENDITURES:	$17,919
DESCRIPTION:	Bank realignment, channel stabilization and placement of bank rip rap
ENGINEER:	Rio Verde Engineering; Pinedale, Wyoming
CONTRACTOR:	Noble Construction; Cora, Wyoming
YEAR COMPLETED:	2000
SESSION LAW YEAR:	1996

63. PROJECT: **Cokeville Water Supply**

SPONSOR:	Town of Cokeville
LOCATION:	Lincoln County
PROGRAM:	New Development
APPROPRIATION:	$629,000
ACTUAL EXPENDITURES:	$629,000
DESCRIPTION:	Wells, pumping station, transmission pipeline and storage tank
ENGINEER:	Forsgren Associates; Evanston, Wyoming
CONTRACTOR:	JASCO, Inc., Evanston, Wyoming
YEAR COMPLETED:	1998
SESSION LAW YEAR:	1994

64. PROJECT: **Collins Heights Water Supply**

SPONSOR:	Collins Heights Industrial Park I&S District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$200,000
ACTUAL EXPENDITURES:	$141,182
DESCRIPTION:	Transmission pipelines
ENGINEER:	Centennial Engineering and Research; Gillette, Wyoming
CONTRACTOR:	S & S Builders; Gillette, Wyoming
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1994

65. PROJECT: **Cook Road Water Supply**

SPONSOR:	Cook Road Water District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$1,700,000
ACTUAL EXPENDITURES:	$1,373,487
DESCRIPTION:	New tank and transmission pipelines
ENGINEER:	Stetson Engineering; Gillette, Wyoming
CONTRACTOR:	Larry's Inc.; Gillette, Wyoming
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1994,1995

66. PROJECT: **Crestview Water Supply**

SPONSOR:	Crestview Estates Improvement & Service District
LOCATION:	Campbell County
PROGRAM:	Rehabilitation
APPROPRIATION:	$41,000
ACTUAL EXPENDITURES:	$24,382.30
DESCRIPTION:	Tie in to Antelope Valley System
ENGINEER:	Bruce Engineering, Gillette, WY
CONTRACTOR:	EXP Backhoe Gillette, Wyoming
YEAR COMPLETED:	2004
SESSION LAW YEAR:	2000

67. PROJECT: **Crystal-Granite Dam Rehabilitation**

SPONSOR:	City of Cheyenne
LOCATION:	Laramie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$4,100,000
ACTUAL EXPENDITURES:	$4,041,703
DESCRIPTION:	Dams (2)
ENGINEER:	Harza Engineering Company; Denver, Colorado
CONTRACTOR:	Gracon Construction Company; Loveland, Colorado
YEAR COMPLETED:	1989
SESSION LAW YEAR:	1985,1989

68. PROJECT: **Dayton Groundwater**

LEVEL:	III
SPONSOR:	Town of Dayton
LOCATION:	Sheridan County
PROGRAM:	New Development
APPROPRIATION:	$3000.00
ACTUAL EXPENDITURES:	$2962.00
DESCRIPTION:	Sale of the well to the town, and purchase of trees for Right of Way Agreement.
ENGINEER:	NA
CONTRACTOR:	NA
YEAR COMPLETED:	2004
SESSION LAW YEARS:	2004

69. PROJECT: **Dayton Water Supply Rehabilitation**

SPONSOR:	Town of Dayton
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$619,200
ACTUAL EXPENDITURES:	$619,200
DESCRIPTION:	Replacement of a Water Transmission Line from the Water Treatment Plant to town. This project also included addition of a booster pumping station out at the Water Treatment Plant
ENGINEER:	Entech, Inc. HKM Engineering
CONTRACTOR:	Western Municipal Hofer Building
YEAR COMPLETED:	2006
SESSION LAW YEAR:	2001 and 2002

70. PROJECT: **Deaver Canal Rehabilitation**

SPONSOR:	Town of Deaver and Deaver Irrigation District
LOCATION:	Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$120,000
ACTUAL EXPENDITURES:	$51,786
DESCRIPTION:	Canal conversion to pipeline
ENGINEER:	Soil Conservation Service; Worland, Wyoming
CONTRACTOR:	Deaver Irrigation District
YEAR COMPLETED:	1990
SESSION LAW YEAR:	1989

71. PROJECT: **Deaver Flume Rehabilitation**

SPONSOR:	Deaver Irrigation District
LOCATION:	Park/Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$210,000
ACTUAL EXPENDITURES:	$210,000
DESCRIPTION:	Deaver Siphon, steel liner for Polecat Flume
ENGINEER:	Engineering Associates, Inc.; Cody, Wyoming
CONTRACTOR:	Deaver Irrigation District
MATERIALS:	Riverton Concrete Products, Inc.; Riverton, Wyoming Production Machine Co., Inc.; Powell, Wyoming Miller Fabrication, Inc.; Lovell, Wyoming
YEAR COMPLETED:	2006
SESSION LAW YEAR:	2003, 2005

72. PROJECT: **Deaver Flume Rehabilitation II**

SPONSOR:	Deaver Irrigation District
LOCATION:	Park and Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$461,000
ACTUAL EXPENDITURES:	$461,000
DESCRIPTION:	Replace Frannie Flume, extend Lateral 114F siphon
ENGINEER:	Engineering Associates, Inc.; Cody, Wyoming Sage Civil Engineering, Cody, Wyoming
CONTRACTOR:	Deaver Irrigation District
MATERIALS:	Miller Fabrication, Inc., Lovell, Wyoming J&E Irrigation, Inc., Basin, Wyoming
YEAR COMPLETED:	2009
SESSION LAW YEAR:	2007

73. PROJECT: **Dixon Water Supply**

SPONSOR:	Town of Dixon
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$215,000
ACTUAL EXPENDITURES:	$215,000
DESCRIPTION:	Infiltration gallery and transmission pipeline
ENGINEER:	Lidstone and Anderson; Fort Collins, Colorado
CONTRACTOR:	Bartlett Construction; Hanna, Wyoming
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1985,1989

74. PROJECT: **Douglas Area Water Supply**

SPONSOR:	City of Douglas
LOCATION:	Converse County
PROGRAM:	New Development
APPROPRIATION:	$1,700,000
ACTUAL EXPENDITURES:	$1,676,442
DESCRIPTION:	Well, pipeline, storage facility
ENGINEER:	CEPI; Casper, Wyoming
CONTRACTOR:	Hedquist Construction; Casper, Wyoming
YEAR COMPLETED:	1995
SESSION LAW YEAR:	1992, 1994

75. PROJECT: **Douglas Intake Structure**

SPONSOR:	City of Douglas
LOCATION:	Converse County
PROGRAM:	Rehabilitation
APPROPRIATION:	$400,000
ACTUAL EXPENDITURES:	$307,872
DESCRIPTION:	Diversion and intake structure
ENGINEER:	CEPI; Casper, Wyoming
CONTRACTOR:	Russell Construction; Douglas, Wyoming
YEAR COMPLETED:	1993
SESSUIB LAW YEAR:	1991

76. PROJECT: **Douglas Water Supply Project**

SPONSOR:	City of Douglas
LOCATION:	Converse County
PROGRAM:	New Development
APPROPRIATION:	$2,070,000
ACTUAL EXPENDITURES:	$2,031,652.28
DESCRIPTION:	New Roof on spring house and addition of chlorination facilities. Construction of one new tank and removal of two unserviceable tanks. Rehabilitation of two other tanks. Construction of a new pump station for Wyoming Law Enforcement Academy.
ENGINEER:	Civil Engineering Professionals Inc.; Casper, Wyoming
CONTRACTOR:	Salt Creek Welding, Casper, Wyoming; High Plains Construction, Casper, Wyoming; Water System Drilling; Gillette Wyoming; Russell Construction, Douglas, Wyoming.
YEAR COMPLETED:	2004
SESSION LAW YEAR:	1999, 2003

77. PROJECT: **Downer Neighborhood Water Supply**

SPONSOR:	Downer Neighborhood Improvement and Service District
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,198,000
ACTUAL EXPENDITURES:	$868,650.05
DESCRIPTION:	Pipeline rehabilitation
ENGINEER:	HKM Engineering, Sheridan, WY
CONTRACTOR:	Hot Iron Construction, Gillette, WY
YEAR COMPLETED:	2003
SESSION LAW YEAR:	1999, 2001

78. PROJECT: **Dubois SCADA**

SPONSOR:	Town of Dubois
LOCATION:	Fremont County
PROGRAM:	New Development
APPROPRIATION:	$45,000
ACTUAL EXPENDITURES:	$45,000
DESCRIPTION:	New Telemetry System
ENGINEER:	Stetson Engineering Gillette, WY
CONTRACTOR:	Electrical Experts, Dubois, Wyoming
YEAR COMPLETED:	2005
SESSION LAW YEAR:	2004

79. PROJECT: **Dubois Water Supply**

SPONSOR:	Town of Dubois
LOCATION:	Fremont County
PROGRAM:	New Development
APPROPRIATION:	$90,000
ACTUAL EXPENDITURES:	$83,108
DESCRIPTION:	Pump Station
ENGINEER:	Nelson Engineering; Jackson, Wyoming
CONTRACTOR:	Wilkinson Construction; Dubois, Wyoming

80. **PROJECT:** **Edgerton/Midwest Water Supply**
SPONSOR: Salt Creek Joint Powers Board
LOCATION: Natrona County
PROGRAM: Rehabilitation
APPROPRIATION: $3,750,000
ACTUAL EXPENDITURES: $3,208,580
DESCRIPTION: Potable Water Transmission Pipeline
ENGINEER: Worthington, Lenhart and Carpenter, Inc., Casper, Wyoming
CONTRACTOR: Larry's, Inc. Gillette, Wyoming
Bartlett, Inc, Hanna, Wyoming

81. **PROJECT:** **Elk Mountain Water Supply**
SPONSOR: Town of Elk Mountain
LOCATION: Carbon County
PROGRAM: New Development
APPROPRIATION: $335,000
ACTUAL EXPENDITURES: $331,743
DESCRIPTION: Put Level II well on line
ENGINEER: PMPC; Saratoga, Wyoming
CONTRACTOR: Bartlett Construction; Hanna, Wyoming
YEAR COMPLETED: 1999
SESSION LAW YEAR: 1996

82. **PROJECT:** **Encampment Raw Water Line**
SPONSOR: Town of Encampment
LOCATION: Carbon County
PROGRAM: Rehabilitation
APPROPRIATION: $60,000 & $340,000 = $400,000
ACTUAL EXPENDITURES: $268,043.41
DESCRIPTION: Construction of a raw water pipeline in the Town's open ditch raw water conveyance system. A portion of this ditch was enclosed in a pipeline previously. This project completes this pipeline from the end of the existing pipe to the water treatment plant.
ENGINEER: PMPC Civil Engineers, Saratoga, Wyoming
CONTRACTOR: Three Way, Inc., Gillette, Wyoming and Hot Iron, Inc., Gillette, Wyoming, a joint venture
YEAR COMPLETED: 2002
SESSION LAW YEAR: 2001 & 2002

83. **PROJECT:** **Encampment Water**
SPONSOR: Town of Encampment
LOCATION: Carbon County
PROGRAM: New Development
APPROPRIATION: $200,000
ACTUAL EXPENDITURES: $181,602
DESCRIPTION: Diversion dam, pipeline
ENGINEER: Probity Engineering; Cheyenne, Wyoming
CONTRACTOR: Great Divide Construction; Baggs, Wyoming
YEAR COMPLETED: 1988
SESSION LAW YEAR: 1985

84. **PROJECT:** **Encampment Water Supply**
SPONSOR: Town of Encampment
LOCATION: Carbon County
PROGRAM: New Development
APPROPRIATION: $137,000
ACTUAL EXPENDITURES: $23,800
DESCRIPTION: Expand municipal raw water irrigation system
ENGINEER: Westerfield Engineering; Encampment, Wyoming
CONTRACTOR: Town of Encampment; Encampment, Wyoming
YEAR COMPLETED: 2001
SESSION LAW YEAR: 1998

85. **PROJECT:** **Etna Diversion Dam**
SPONSOR: Etna Irrigation District
LOCATION: Lincoln County
PROGRAM: Rehabilitation
APPROPRIATION: $200,000
ACTUAL EXPENDITURES: $152,765
DESCRIPTION: Diversion dam replacement
ENGINEER: Forsgren Associates; Evanston, Wyoming
CONTRACTOR: T.J.G., Inc.; Evanston, Wyoming

86. **PROJECT:** **Etna Water Supply**
SPONSOR: Etna Water and Sewer District
LOCATION: Lincoln County
PROGRAM: New Development
APPROPRIATION: $690,000
ACTUAL EXPENDITURES: $630,665.55
DESCRIPTION: Springs development, well and transmission line
ENGINEER: Forsgren Associates Inc.; Evanston, Wyoming
CONTRACTOR: Peavler's Mountain Star Inc.; Afton, Wyoming
YEAR COMPLETED: 2002
SESSION LAW YEAR: 1994 & 1998

87. **PROJECT:** **Evanston Raw Water Supply**
SPONSOR: City of Evanston
LOCATION: Uinta County
PROGRAM: New Development
APPROPRIATION: $1,500,000
ACTUAL EXPENDITURES: $1,500,000
DESCRIPTION: Irrigation pipeline, pumps and primary filters
ENGINEER: Sunrise Engineering, Inc.; Afton, Wyoming
CONTRACTOR: Flare Construction; Coalville, Utah

88. **PROJECT:** **Evansville Elkhorn Creek Water Supply**
SPONSOR: Town of Evansville
LOCATION: Natrona County
PROGRAM: Rehabilitation
APPROPRIATION: $50,000
ACTUAL EXPENDITURES: $0
DESCRIPTION: Infiltration gallery and monitoring facility
ENGINEER: Hibsman Associates; Casper, Wyoming
YEAR COMPLETED: 2000
SESSION LAW YEAR: 1996

89. **PROJECT:** **Evansville Water Supply**
SPONSOR: Town of Evansville
LOCATION: Natrona County
PROGRAM: New Development
APPROPRIATION: $750,000
ACTUAL EXPENDITURES: $382,606
DESCRIPTION: Water storage tank
ENGINEER: Hibsman Associates; Casper, Wyoming
CONTRACTOR: Bartlett Construction; Hanna, Wyoming
YEAR COMPLETED: 1994
SESSION LAW YEAR: 1992

90. **PROJECT:** **Fairview Water Supply**
SPONSOR: Fairview Water and Sewer District
LOCATION: Lincoln County
PROGRAM: New Development
APPROPRIATION: $502,000
ACTUAL EXPENDITURES: $391,640
DESCRIPTION: Well, storage and pipeline
ENGINEER: Forsgren Associates; Evanston, Wyoming
CONTRACTOR: JASCO; Evanston, Wyoming

91. **PROJECT:** **Fairview Water Supply**
SPONSOR: Fairview Irrigation District
LOCATION: Lincoln County
PROGRAM: Rehabilitation
APPROPRIATION: $150,000
ACTUAL EXPENDITURES: $150,000
DESCRIPTION: Open canal to pipeline design
ENGINEER: ARIX; Riverton, Wyoming
CONTRACTOR: NA

92. PROJECT: **Ferris Diversion Dam Rehabilitation**

SPONSOR:	Ferris Irrigation District/Town of Torrington
LOCATION:	Goshen County
PROGRAM:	Rehabilitation
APPROPRIATION:	$500,000
ACTUAL EXPENDITURES:	$475,847
DESCRIPTION:	Diversion dam, pipeline
ENGINEER:	Western Water Consultants; Laramie, Wyoming
CONTRACTOR:	Pete's Excavation; Torrington, Wyoming
YEAR COMPLETED:	1992
SESSION LAW YEAR:	1990

93. PROJECT: **Fontenelle Dam Repair**

SPONSOR:	State of Wyoming
LOCATION:	Sweetwater County
PROGRAM:	Rehabilitation
APPROPRIATION:	$3,500,000
ACTUAL EXPENDITURES:	$3,247,283
DESCRIPTION:	Dam
ENGINEER:	Bureau of Reclamation

94. PROJECT: **Freedom Water Supply**

SPONSOR:	Freedom Water and Sewer District
LOCATION:	Lincoln County
PROGRAM:	New Development
APPROPRIATION:	$737,000
ACTUAL EXPENDITURES:	$678,899
DESCRIPTION:	Well, storage, pipeline
ENGINEER:	Forsgren, Evanston, Wyoming.
CONTRACTOR:	Snyder Construction, Lyman, Wyoming.

95. PROJECT: **Fremont Lake Reservoir**

SPONSOR:	Highland Irrigation District
LOCATION:	Sublette County
PROGRAM:	New Development
APPROPRIATION:	$457,834
ACTUAL EXPENDITURES:	$411,862
DESCRIPTION:	Dam, headgates
ENGINEER:	Soil Conservation Service
CONTRACTOR:	Bartlett Construction; Hanna, Wyoming Noble Construction; Pinedale, Wyoming

96. PROJECT: **Gillette Central Zone Isolation Project**

SPONSOR:	City of Gillette
LOCATION:	Campbell County
PROGRAM:	Rehabilitation
APPROPRIATION:	$759,500
ACTUAL EXPENDITURES:	$379,620.86
DESCRIPTION:	New transmission line
ENGINEER:	Stetson Engineering Gillette, WY
CONTRACTOR:	Hot Iron Inc. Gillette, Wyoming
YEAR COMPLETED:	2004
SESSION LAW YEAR:	2001, 2002

97. PROJECT: **Gillette Fort Union Well Field**

SPONSOR:	City of Gillette
LOCATION:	Campbell County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,725,000
ACTUAL EXPENDITURES:	$1,331,818.25
DESCRIPTION:	Storage Tank, Pipeline
ENGINEER:	Stetson Engineering, Gillette, Wyoming; Wester-Wetstein, Laramie, Wyoming
CONTRACTOR:	DRM Inc, Gillette, Wyoming; Ruby Drilling, Gillette, Wyoming
YEAR COMPLETED::	2000
SESSION LAW YEAR:	1995, 1996, 1998

98. PROJECT: **Gillette Fort Union Well Field – Phase I**

SPONSOR:	City of Gillette
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$1,000,000.00
ACTUAL EXPENDITURES:	$107,763.56
DESCRIPTION:	Well field and transmission pipeline
ENGINEER:	Wester-Wetstein & Assoc., Laramie, Wyoming
CONTRACTOR:	None
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2005

99. PROJECT: **Gillette Hidden Valley Storage and Transmission**

SPONSOR:	City of Gillette
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$1,350,000
ACTUAL EXPENDITURES:	$1,028,531.14
DESCRIPTION:	Storage Tank, Pipeline
ENGINEER:	Stetson Engineering, Gillette, Wyoming
CONTRACTOR:	DRM Inc, Gillette, Wyoming
SESSION LAWS:	2000
COMPLETION YEAR:	2002

100. PROJECT: **Gillette Madison and Pine Ridge Tanks**

SPONSOR:	City of Gillette
LOCATION:	Campbell County
PROGRAM:	Rehabilitation
APPROPRIATION:	$550,000
ACTUAL EXPENDITURES:	$531,986.32
DESCRIPTION:	Construction of two 200,000-gallon storage reservoirs and rehabilitation of two existing storage reservoirs.
ENGINEER:	Stetson Engineering; Gillette, Wyoming
CONTRACTOR:	DRM, Inc.; Gillette, Wyoming
YEAR COMPLETED:	2007
SESSION LAW YEAR:	2004

101. PROJECT: **Gillette Madison Well Field Expansion**

SPONSOR:	City of Gillette
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$1,628,250
ACTUAL EXPENDITURES:	$1,619,192
DESCRIPTION:	Two New Wells, Improvement of another well, pipeline
ENGINEER:	Wester-Wetstein; Gillette, Wyoming
CONTRACTOR:	Jim's Water Service; Gillette, Wyoming, Hot Iron; Gillette, Wyoming, Tower Construction, Gillette, Wyoming
YEAR COMPLETED:	2000
SESSION LAW YEAR:	1995,1996

102. PROJECT: **Gillette Pipeline Project**

SPONSOR:	City of Gillette
LOCATION:	City of Gillette
PROGRAM:	New Development
APPROPRIATION:	$408,700
ACTUAL EXPENDITURES:	$301,684
DESCRIPTION:	Pipeline
ENGINEER:	Consolidated Engineers and Materials Testing; Gillette, Wyoming
CONTRACTOR:	S&S Builders; Gillette, Wyoming
YEAR COMPLETED;	1995
SESSION LAW YEAR:	1993

103. PROJECT: **Gillette Rehabilitation**

LEVEL:	III
PROGRAM:	Rehabilitation
LOCATION:	Campbell County
SPONSOR:	City of Gillette
APPROPRIATION:	$300,000,000
ACTUAL EXPENDITURES:	$300,000,000
DESCRIPTION:	Installation of new electrical distribution cable, new transformers, grounding system, new surge arresters, new switch gear, and new electrical controls.
ENGINEER:	Cooper Power Systems; Pittsburgh, Pennsylvania, Consolidated Engineering & Material Testing; Gillette, Wyoming
CONTRACTOR:	Automation & Electronics; Casper, Wyoming (Numerous suppliers)
YEAR COMPLETED:	2000
SESSION LAW YEAR;	1997

104. PROJECT: **Gillette Storage & East End Transmission Improvements**

SPONSOR:	City of Gillette
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$2,040,000.00
ACTUAL EXPENDITURES:	$1,095,729.01
ENGINEER:	Stetson Engineering, Gillette, WY. PCA, Gillette, WY.
CONTRACTOR:	Larry's Inc. Gillette, WY. DRM, Gillette, WY
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1998

105. PROJECT: **Glenrock Groundwater Supply**

SPONSOR:	Town of Glenrock
LOCATION:	Converse County
PROGRAM:	New Development
APPROPRIATION:	$1,822,000
ACTUAL EXPENDITURES:	$1,639,709.09
DESCRIPTION:	New Well, pipeline, controls
ENGINEER:	Civil Engineering Professionals Inc., Casper, Wyoming
CONTRACTOR:	71 Construction Casper, Wyoming
YEAR COMPLETED:	2003
SESSION LAW YEAR:	2000, 2002

106. PROJECT: **Glenrock Sunup Ridge Tank Rehabilitation**

SPONSOR:	Town of Glenrock
LOCATION:	Converse County
PROGRAM:	Rehabilitation
APPROPRIATION:	$132,750
ACTUAL EXPENDITURES:	$129,824.41
DESCRIPTION:	Storage reservoir interior and exterior coating systems
ENGINEER:	CEPI; Casper, Wyoming
CONTRACTOR:	Wyoming Power Wash, Inc.
YEAR COMPLETED:	2007
SESSION LAW YEAR:	2004

107. PROJECT: **Glenrock Tank Rehabilitation**

SPONSOR:	Town of Glenrock
LOCATION:	Converse County
PROGRAM:	New Development
APPROPRIATION:	$ 1,236,835
ACTUAL EXPENDITURES:	$ 846,617.26
DESCRIPTION:	Storage tank, yard piping
ENGINEER:	CEPI; Casper, Wyoming
CONTRACTOR:	EAI; Loveland, Colorado
COMPLETION DATE:	5/15/2008
SESSION LAW YEAR:	2006

108. PROJECT: **Glenrock Water Supply**

SPONSOR:	Town of Glenrock
LOCATION:	Converse County
PROGRAM:	New Development
APPROPRIATION:	$2,500,000
ACTUAL EXPENDITURES:	$1,941,720
DESCRIPTION:	Wells, pipeline
ENGINEER:	Nelson Engineering; Jackson, Wyoming
CONTRACTOR:	Larry's Inc.; Gillette, Wyoming

109. PROJECT: **Goshen Canal Improvements**

SPONSOR:	Goshen Irrigation District
LOCATION:	Goshen County
PROGRAM:	Rehabilitation
APPROPRIATION:	$24,500
ACTUAL EXPENDITURES:	$24,303
DESCRIPTION:	Automate three canal spillway gates
ENGINEER:	Lidstone & Anderson; Fort Collins, Colorado
CONTRACTOR:	Sutron Corporation; Sterling, Virginia
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1993

110. PROJECT: **Goshen Irrigation District Rehabilitation**

SPONSOR:	Goshen Irrigation District
LOCATION:	Goshen County
PROGRAM:	Rehabilitation
APPROPRIATION:	$600,000
ACTUAL EXPENDITURES:	$437,688
DESCRIPTION:	Canal conversion to pipeline
ENGINEER:	Kennedy Engineering; Wheatland, Wyoming
CONTRACTOR:	Goshen Irrigation District
YEAR COMPLETED:	1991
SESSION LAW YEAR:	1986

111. PROJECT: **Goshen Irrigation District Water System**

SPONSOR:	Goshen Irrigation District
LOCATION:	Goshen County
PROGRAM:	Rehabilitation
APPROPRIATION:	$2,226,000
ACTUAL EXPENDITURES:	$2,226,000
DESCRIPTION:	Automate 11 control sites, pipe 16 miles in 29 segments
ENGINEER:	Anderson Consulting Engineers, Fort Collins, Colorado
CONTRACTOR:	Goshen Irrigation District Lanphier, Inc., Lingle, Wyoming Waterman Industries, Inc., Garden City, Kansas Innovative Process Design, Inc., Aurora, Colorado Northwest Pipe Fittings, Inc., Rapid City, S. Dakota Smitty's Repair Service, Inc., Torrington, Wyoming
YEAR COMPLETED:	2009
SESSION LAW YEAR:	2000, 2004

112. PROJECT: **Goshen Pump Station**

SPONSOR:	Goshen Irrigation District
LOCATION:	Goshen County
PROGRAM:	Rehabilitation
APPROPRIATION:	$330,000
ACTUAL EXPENDITURES:	$330,000
DESCRIPTION:	Pump station
ENGINEER:	AVI; Cheyenne, Wyoming Lidstone-Anderson; Ft. Collins, Colorado
CONTRACTOR:	Bartlett Construction; Hanna, Wyoming John's Pump Service; Torrington, Wyoming
YEAR COMPLETED:	1997
SESSION LAW YEAR:	1992, 1994, 1995, and 1996

113. PROJECT: **Greybull Crossing and Tank Project**

SPONSOR:	Town of Greybull
LOCATION:	Big Horn County
PROGRAM:	New Construction
APPROPRIATION:	$1,850,000
ACTUAL EXPENDITURES:	$1,255,658.05
DESCRIPTION:	Big Horn River pipeline crossing , and a transmission pipeline to a new water storage tank. This project was constructed with the financial assistance and cooperation of BP Petroleum.
ENGINEER:	Crank Companies, Inc., Diamondville, Wyoming
CONTRACTOR:	LaMax Construction, Basin, Wyoming
YEAR COMPLETED:	2005
SESSION LAW YEAR:	2000

114. PROJECT: **Greybull Highway 14 Crossing**

SPONSOR:	Town of Greybull
LOCATION:	Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$240,000
ACTUAL EXPENDITURES:	$77,221.77
DESCRIPTION:	Lower and reroute several of the Town of Greybull's potable water transmission pipelines for the Wyoming Department of Transportation's reconstruction of a portion of U.S. Highway 14.
ENGINEER:	WyDOT, Cheyenne, Wyoming
CONTRACTOR:	Unknown
YEAR COMPLETED:	2005
SESSION LAW YEAR:	2003

115. PROJECT: **Greybull Rehabilitation**

SPONSOR:	Town of Greybull
LOCATION:	Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$355,000
ACTUAL EXPENDITURES:	$322,764
DESCRIPTION:	Water system rehabilitation
ENGINEER:	Crank Companies, Inc., Kemmerer, Wyoming
CONTRACTORS:	Lamax Construction, Basin, Wyoming Automation Electronics, Casper, Wyoming
YEAR COMPLETED;	2000
SESSION LAW YEAR:	1996

116. PROJECT: **Greybull Shell Water Supply/Greybull Groundwater**

SPONSOR:	Town of Greybull
LOCATION:	Big Horn County
PROGRAM:	New Development
APPROPRIATION:	$517,000
ACTUAL EXPENDITURES:	$517,000
DESCRIPTION:	Pipeline, storage tank, and disinfection facilities
CONTRACTOR	LaMax Construction, Inc., Basin, Wyoming
COMPLETION DATE	2002
SESSION LAW	1998 & 1999

117. PROJECT: **Grover Water Supply**

SPONSOR:	Grover Water and Sewer District
LOCATION:	Lincoln County
PROGRAM:	New Development
APPROPRIATION:	$493,000
ACTUAL EXPENDITURES:	$493,000
DESCRIPTION:	Well storage, pipeline
ENGINEER:	Forsgren Associates, Evanston, Wyoming
CONTRACTOR:	JASCO; Evanston, Wyoming

118. PROJECT: **Guernsey Water Supply**

SPONSOR:	Town of Guernsey
LOCATION:	Goshen County
PROGRAM:	New Development
APPROPRIATION:	$550,000
ACTUAL EXPENDITURES:	$511,995
DESCRIPTION:	Construction of a new well and a supply pipeline
ENGINEER:	TST Engineering, Denver, Colorado; Weston Engineering, Laramie Wyoming
CONTRACTOR:	D. C. Drilling, Wheatland, High Plains Construction, Casper, Wyoming
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1996

119. PROJECT: **Gunbarrel Lateral Rehabilitation**

SPONSOR:	Platte County Resource District
LOCATION:	Platte County
PROGRAM:	Rehabilitation
APPROPRIATION:	$250,000
ACTUAL EXPENDITURES:	$210,782
DESCRIPTION:	Replaced an open ditch with a buried pipeline. Provided construction materials only.
ENGINEER:	Natural Resources Conservation Service
CONTRACTOR:	Sponsor
YEAR COMPLETED:	1999
SESSION LAW YEAR:	1997

120. PROJECT: **Hanover Flume Rehabilitation**

SPONSOR:	Hanover Irrigation District
LOCATION:	Washakie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$87,000
ACTUAL EXPENDITURES:	$43,500
DESCRIPTION:	Coat steel flume liner
ENGINEER:	Engineering Associates, Inc. Cody, Wyoming
CONTRACTOR:	Industrial Coatings, Inc. Great Falls, Montana
YEAR COMPLETED:	2005
SESSION LAW YEAR:	2003

121. PROJECT: **Hanover Irrigation**

SPONSOR:	Hanover Irrigation District
LOCATION:	Washakie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$600,000
ACTUAL EXPENDITURES:	$600,000
DESCRIPTION:	Moss catcher and structure
ENGINEER:	Crank Companies, Inc.; Kemmerer, Wyoming
CONTRACTOR:	R-D Construction, Casper, Wyoming Magic Valley Heliac, Twin Falls, Idaho
YEAR COMPLETED:	1992
SESSION LAW YEAR:	1990

122. PROJECT: **Hartville Water Supply**

SPONSOR:	Town of Hartville
LOCATION:	Platte County
PROGRAM:	New Development
ACTUAL EXPENDITURES:	$19,020 (transfer of well to town)
YEAR COMPLETED:	2001

123. PROJECT: **Hawk Springs**

SPONSOR:	Horse Creek Conservation District
LOCATION:	Goshen County
PROGRAM:	Rehabilitation
APPROPRIATION:	$8,871,000
ACTUAL EXPENDITURES:	$8,491,098
DESCRIPTION:	Dams, canals
ENGINEER:	Soil Conservation Service; Casper, Wyoming DMJM, Denver, Colorado Stone and Webster, Denver, Colorado
CONTRACTOR:	Larry's Plumbing and Heating, Gillette, Wyoming Scott and Son, Torrington, Wyoming Lower and Co., Casper, Wyoming
DATE COMPLETED:	1989
SESSION LAW DATE:	1983, 1985, 1993

124. PROJECT: **Hyattville Water Supply Project**

SPONSOR:	Hyattville Improvement and Service District
LOCATION:	Big Horn County
PROGRAM:	New Construction
APPROPRIATION:	$835,000.00
ACTUAL EXPENDITURES:	$793,424.08
DESCRIPTION:	New transmission pipelines, pipeline connections to the new well and well house enclosure. This system does not have a water storage tank. It operates off of the wellhead pressure and flow.
ENGINEER:	Wester-Wetstein, Laramie, Wyoming
CONTRACTOR:	Wilson Brothers Construction, Lovell, Wyoming
YEAR COMPLETED:	2009
SESSION LAW YEAR:	2006

125. PROJECT: **Heart Mountain Pipe Conversion**

SPONSOR:	Heart Mountain Irrigation District
LOCATION:	Park County
PROGRAM:	Rehabilitation
APPROPRIATION:	$715,340
ACTUAL EXPENDITURES:	$715,340
DESCRIPTION:	Pipe laterals H28, R39, part of R15-2N&6N
ENGINEER:	Engineering Associates, Cody, Wyoming
CONTRACTOR:	Heart Mountain Irrigation District
MATERIALS:	J&E, Inc., Basin, Wyoming Waterworks Irrigation, Ralston, Wyoming
DATE COMPLETED:	2008
SESSION LAW DATE:	2004, 2006

126. PROJECT: **Highland Hanover Rehabilitation**

SPONSOR:	Highland Hanover Irrigation District
LOCATION:	Washakie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$536,000
ACTUAL EXPENDITURES:	$536,000
DESCRIPTION:	Pump station rehab; canal and lateral repairs
ENGINEER:	Nelson Engineering; Jackson, Wyoming
CONTRACTOR:	Mainline Construction; Billings, Montana
	Big Horn Red-Mix; Worland, Wyoming
	Tesco Electric; Worland, Wyoming
YEAR COMPLETED:	1994
SESSION LAW YEAR:	1989

127. PROJECT: **Highline Ditch Rehabilitation**

SPONSOR:	Highline Irrigation District
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$260,000
ACTUAL EXPENDITURES:	$231,560
DESCRIPTION:	Diversion dam, pipeline
ENGINEER:	Engineering, Inc.; Sheridan, Wyoming
CONTRACTOR:	Fletcher Construction; Sheridan, Wyoming
YEAR COMPLETED:	1990
SESSION LAW DATE:	1988

128. PROJECT: **Highline Irrigation Ditch Rehabilitation**

SPONSOR:	Highline Watershed Improvement District
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$726,000
ACTUAL EXPENDITURES:	$726,000
DESCRIPTION:	Ditch erosion control and renovation
ENGINEER:	PMPC, Inc.; Saratoga, Wyoming
CONTRACTOR:	A & D Dozers, Inc.; Rawlins, Wyoming
YEAR COMPLETED:	2002
SESSION LAW YEAR:	2000

129. PROJECT: **Horse Creek Conservation District Rehabilitation**

SPONSOR:	Horse Creek Conservation District
LOCATION:	Goshen County
PROGRAM:	Rehabilitation
APPROPRIATION:	$246,600
ACTUAL EXPENDITURES:	$190,124
DESCRIPTION:	Replace ditch with pipe, install structures
ENGINEER:	PMPC; Saratoga, Wyoming BenchMark Engineering; Torrington, Wyoming
CONTRACTOR:	Horse Creek Conservation District; Hawk Springs, Wyoming
MATERIALS:	Shively Hardware Co., Saratoga, Wyoming Vaughn Concrete Products, Inc.; Cheyenne, Wyoming Lanphier, Inc.; Lingle, Wyoming Panhandle Concrete Products, Inc.; Scottsbluff, Nebraska
YEAR COMPLETED:	2001
SESSION LAW DATE:	1999

130. PROJECT: **Hugus-Mullison Ditch (Hugus Ditch)**

SPONSOR:	Hugus Watershed improvement District
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$325,000
ACTUAL EXPENDITURES:	$303,107.31
DESCRIPTION:	Renovation of the existing ditch to improve several street crossings, improve overflow structures, and provide a concrete lining in that portion of the ditch which passes through the Town.
ENGINEER:	PMPC Civil Engineers, Saratoga, Wyoming
CONTRACTOR:	Foster Construction Co., Inc., Riverton, Wyoming
YEAR COMPLETED:	2002
SESSION LAW YEAR:	2001

131. PROJECT: **Hulett Water Supply**

SPONSOR:	Town of Hulett
LOCATION:	Crook County
PROGRAM:	New Development
APPROPRIATION:	$250,000
ACTUAL EXPENDITURES:	$246,635
DESCRIPTION:	Pump, storage tank and pipeline
ENGINEER:	Weston Engineering; Upton, Wyoming
CONTRACTOR:	S & S Builders; Gillette, Wyoming
YEAR COMPLETED:	1994
SESSION LAW DATE:	1991

132. PROJECT: **Hunt Canal Rehabilitation**

SPONSOR:	Hunt Irrigation District
LOCATION:	Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$650,000
ACTUAL EXPENDITURES:	$640,000
DESCRIPTION:	Diversion dam and headgate replacement, canal repairs
ENGINEER:	Nelson Engineering; Jackson, Wyoming
CONTRACTOR:	Nichols and Lewis; Lovell, Wyoming
YEAR COMPLETED:	1994
SESSION LAW DATE:	1990

133. PROJECT: **Indian Springs Water Supply**

SPONSOR:	Indian Springs Improvement and Service District
LOCATION:	Natrona County
PROGRAM:	New Development
APPROPRIATION:	$150,000
ACTUAL EXPENDITURES:	$107,713
DESCRIPTION:	Transmission pipeline
ENGINEER:	Hibsman Associates; Casper, Wyoming
CONTRACTOR:	High Plains Construction; Mills, Wyoming
YEAR COMPLETED:	1994
SESSION LAW YEAR:	1992

134. PROJECT: **Iron Creek Rehabilitation**

SPONSOR:	Shoshone/Deaver Irrigation Districts
LOCATION:	Park County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,500,000
ACTUAL EXPENDITURES:	$1,500,000
DESCRIPTION:	Tunnel repair
ENGINEER:	Harza Engineering Company; Denver, Colorado
CONTRACTOR:	Shoshone Irrigation District
YEAR COMPLETED:	1987
SESSION LAW DATE:	1984

135. PROJECT: **Jackson Raw Water Supply**

SPONSOR:	Town of Jackson
LOCATION:	Teton County
PROGRAM:	New Development
APPROPRIATION:	$450,000
ACTUAL EXPENDITURES:	$450,000
DESCRIPTION:	Irrigation and thaw wells, pipeline, and pumps
ENGINEER:	Nelson Engineering; Jackson, Wyoming
CONTRACTOR:	Thomas Drilling; Afton, Wyoming G.M. Stewart Corporation; Evanston, Wyoming
YEAR COMPLETED;	2001
SESSION LAW YEAR;	1999

136. PROJECT: **Jackson Water Supply**

SPONSOR:	Town of Jackson
LOCATION:	Teton County
PROGRAM:	New Development
APPROPRIATION:	$2,300,000
ACTUAL EXPENDITURES:	$1,952,515
DESCRIPTION:	Three new wells with control building
ENGINEER:	Nelson Engineering, Jackson, Wyoming
CONTRACTOR:	H-K Contractors, Inc., Idaho Falls, ID
YEAR COMPLETED:	1998
SESSION LAW YEAR:	1994

137. PROJECT: **Jon's Drop/Four Mile Flume Rehabilitation**

SPONSOR:	Savery-Little Snake Water Conservancy District
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$142,000
ACTUAL EXPENDITURES:	$90,254
DESCRIPTION:	Renovation
ENGINEER:	Merrill Engineering Consultants, Wyoming
CONTRACTOR:	Willies Dirt Service, Wamsutter Wyoming
YEAR COMPLETED:	2005
SESSION LAW YEAR:	2003

138. PROJECT: **Kaycee Storage & Transmission**

SPONSOR:	Town of Kaycee
LOCATION:	Johnson County
PROGRAM:	New Development
APPROPRIATION:	$2,350,000.00
ACTUAL EXPENDITURES:	$1,174,883.39
DESCRIPTION:	Storage tank, transmission pipeline, control valves
ENGINEER:	CEPI; Casper, Wyoming
CONTRACTOR:	High Plains; Casper, Wyoming
COMPLETION DATE	4/21/2009
SESSION LAW	2006

139. PROJECT: **Kemmerer City Dam Rehabilitation**

SPONSOR:	City of Kemmerer
LOCATION:	Lincoln County
PROGRAM:	Rehabilitation
APPROPRIATION:	$940,000
ACTUAL EXPENDITURES:	$940,000
DESCRIPTION:	Dam repair
ENGINEER:	Woodward-Clyde Consultants; Denver, Colorado
CONTRACTOR:	Nicholas Construction Company; Denver, Colorado

140. **PROJECT:** **Kirby Ditch**
SPONSOR: Kirby Ditch Irrigation District
LOCATION: Hot Springs County
PROGRAM: Rehabilitation
APPROPRIATION: $60,000
ACTUAL EXPENDITURES: $42,069
DESCRIPTION: Siphon and Wasteway
ENGINEER: Natural Resources Conservation Service, Wyoming
CONTRACTOR: W.A.R., Inc., Thermopolis, Wyoming
YEAR COMPLETED: 2001
SESSION LAW YEAR; 1999

141. **PROJECT:** **Kirby Ditch**
SPONSOR: Kirby Irrigation District
LOCATION: Hot Springs County
PROGRAM: Rehabilitation
APPROPRIATION: $141,000
ACTUAL EXPENDITURES: $70,363
DESCRIPTION: Siphon, measuring devices
ENGINEER: Soil Conservation Service; Worland, Wyoming
CONTRACTOR: Big Horn Red Mix; Greybull, Wyoming
YEAR COMPLETED: 1987
SESSION LAW DATE: 1984

142. **PROJECT:** **Lake Adelaide Reservoir Enlargement**
SPONSOR: Shell Valley Watershed Improvement District
LOCATION: Big Horn County
PROGRAM: New Development
APPROPRIATION: $2,200,000
ACTUAL EXPENDITURES: $1,840,503
DESCRIPTION: Dam enlargement
ENGINEER: ESA Consultants, Inc.; Fort Collins, Colorado
CONTRACTOR: MRC, Inc.; Casper, Wyoming
YEAR COMPLETED: 1992
SESSION LAW DATE: 1986

143. **PROJECT:** **Lake Hattie Dam Rehabilitation**
SPONSOR: Pioneer Canal - Lake Hattie Irrigation District
LOCATION: Albany County
PROGRAM: Rehabilitation
APPROPRIATION: $360,000
ACTUAL EXPENDITURES: $345,580
DESCRIPTION: Dam repair
ENGINEER: Western Water Consultants; Laramie, Wyoming
CONTRACTOR: Domino Construction; Laramie, Wyoming
YEAR COMPLETED: 1990
SESSION LAW DATE: 1988

144. **PROJECT:** **Lake Hattie Outlet Works**

SPONSOR:	Pioneer Canal – Lake Hattie Irrigation District
LOCATION:	Albany County
PROGRAM:	Rehabilitation
APPROPRIATION:	$163,000
ACTUAL EXPENDITURES:	$163,000
DESCRIPTION:	New Outlet structure to prevent the build up of sediment in the outlet pipes
ENGINEER:	WWC Engineering
CONTRACTOR:	Hamaker Excavation Timberline Excavating
YEAR COMPLETED:	2006
SESSION LAW YEAR:	2004

145. **PROJECT:** **Lake Hattie Supply Canal**

SPONSOR:	Lake Hattie Irrigation District
LOCATION:	Albany County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,400,000
ACTUAL EXPENDITURES:	$1,270,195
DESCRIPTION:	Canal structures and alignment
ENGINEER:	Western Water Consultants; Laramie, Wyoming
CONTRACTOR:	Bartlett Construction; Hanna, Wyoming Domson, Inc.; Torrington, Wyoming
YEAR COMPLETED:	1996
SESSION LAW DATE:	1990

146. **PROJECT:** **Lakeview Improvement and Service District Water Supply**

SPONSOR:	Lakeview Improvement and Service District
LOCATION:	Natrona County
PROGRAM:	New Development
APPROPRIATION:	$390,000
ACTUAL EXPENDITURES:	$314,184.95
DESCRIPTION:	Transmission Pipelines
ENGINEER:	Civil Engineering Professionals, Inc., Casper, Wyoming
CONTRACTOR:	Hedquist Construction, Inc., Casper, Wyoming
YEAR COMPLETED:	2002
SESSION LAW YEAR:	2000

147. **PROJECT:** **Lance Creek Water Rehabilitation**

SPONSOR:	Lance Creek Water and Sewer District
LOCATION:	Niobrara County
PROGRAM:	Rehabilitation
APPROPRIATION:	$327,900
ACTUAL EXPENDITURES:	$327,900
DESCRIPTION:	Pipeline, backflow prevention
ENGINEER:	Western Water Consultants; Laramie, Wyoming
CONTRACTOR:	Excel Construction, Inc.; Sheridan, Wyoming
YEAR COMPLETED:	2001
SESSION LAW DATE:	1997

148. PROJECT: **Lander Intake Facilities**

SPONSOR:	City of Lander
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$200,000
ACTUAL EXPENDITURES:	$108,642.13
DESCRIPTION:	Relocate and renovate intake structure
ENGINEER:	Aspen Engineering, Inc.; Riverton, Wyoming
CONTRACTOR:	Excel Construction Inc.; Sheridan, Wyoming
YEAR COMPLETED:	2002
SESSION LAW YEAR:	1999

149. PROJECT: **Lander Water Supply Rehabilitation**

SPONSOR:	City of Lander
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,696,000
ACTUAL EXPENDITURES:	$1,016,076.91
DESCRIPTION:	Raw and treated transmission pipelines
ENGINEER:	Aspen Engineering Inc.; Riverton, Wyoming
CONTRACTOR:	Excel Construction Inc.; Sheridan, Wyoming
YEAR COMPLETED:	2002
SESSION LAW YEAR:	1999 & 2000

150. PROJECT: **Lander Worthen Meadows Dam Rehabilitation**

SPONSOR:	City of Lander
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,250,000
ACTUAL EXPENDITURES:	$811,804
DESCRIPTION:	Dam repair
ENGINEER:	Versar; Riverton, Wyoming
CONTRACTOR:	C.J. Abbot; Casper, Wyoming
YEAR COMPLETED:	1991
SESSION LAW YEAR;	1989

151. PROJECT: **LaPrele Rehabilitation**

SPONSOR:	LaPrele Irrigation District
LOCATION:	Converse County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,500,000
ACTUAL EXPENDITURES:	$1,476,203
DESCRIPTION:	Tunnel repair, canals
ENGINEER:	Nelson Engineering; Jackson, Wyoming
CONTRACTOR:	Central Contractors, Inc.; Mills, Wyoming
YEAR COMPLETED;	1985
SESSION LAW YEAR;	1984

152. PROJECT: **Laramie East Side Tank**

SPONSORS:	City of Laramie
LOCATION:	Albany County
PROGRAM:	New Development
APPROPRIATION:	$4,780,000
ACTUAL EXPENDITURES:	$4,756,141.55
DESCRIPTION:	The purpose of this project is to construct transmission lines, water storage facilities, and pump stations for the City of Laramie.
ENGINEER:	Wester-Wetstein; Laramie, WY
CONTRACTOR:	Reiman Corporation and Aslan Construction
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2002

153. PROJECT: **Laramie North Side Supply**

SPONSOR:	City of Laramie
LOCATION:	Albany County
PROGRAM:	Rehabilitation
APPROPRIATION:	$4,240,000
ACTUAL EXPENDITURES:	$3,919,669.76
DESCRIPTION:	Design and construction of a transmission line in North Laramie, including cathodic protection and partial line replacement. This project also included design for the Laramie East Side Tank Project.
ENGINEER:	Aspen Banner for Laramie North design and construction and Wester-Wetstein for Laramie East Side Tank Project design.
CONTRACTOR:	Excel
YEAR COMPLETED:	2006
SESSION LAW YEAR:	2000, 2001, 2002

154. PROJECT: **Laramie Rehabilitation**

SPONSOR:	City of Laramie
LOCATION:	Albany County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,750,000
ACTUAL EXPENDITURES:	$1,546,216.32
DESCRIPTION:	Replacement of water supply pipelines; New pumphouse; Reservoir rehabilitation
ENGINEER:	Western Water Consultants, Laramie, Wyoming; Wester-Wetstein & Associates, Laramie Wyoming
CONTRACTOR:	Johnson's Pump and Excavating, Wheatland, Wyoming; Domino Construction, Laramie, Wyoming; High Plains Construction, Mills, Wyoming; Bartlett Inc, Hanna, Wyoming
YEAR COMPLETED:	1999
SESSION LAW YEAR:	1995, 1996

155. PROJECT: **Laramie Rivers**

SPONSOR:	Pioneer Canal-Lake Hattie Irrigation District
LOCATION:	Albany County
PROGRAM:	Rehabilitation
APPROPRIATION:	$165,000
ACTUAL EXPENDITURES:	$165,000
DESCRIPTION:	Refinanced existing loans
ENGINEER:	NA
CONTRACTOR:	NA
DATE COMPLETED:	1988
SESSION LAW DATE:	1988

156. PROJECT: **Laramie Transmission Pipeline and Pioneer Canal Diversion**

SPONSOR:	City of Laramie
LOCATION:	Albany County
PROGRAM:	Rehabilitation
APPROPRIATION:	$4,945,000
ACTUAL EXPENDITURES:	$4,237,768
ENGINEER:	Banner & Associates, Laramie Wyoming; Western Water Consultants, Laramie, Wyoming
CONTRACTOR:	Bartlett Construction, Hanna, Wyoming; TIC, Casper, Wyoming
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1998

157. PROJECT: **Laramie Water Management Project (meters)**

SPONSOR:	City of Laramie
LOCATION:	Albany County
PROGRAM:	Rehabilitation
APPROPRIATION:	$97,150
ACTUAL EXPENDITURES:	$70,421.76
DESCRIPTION:	Replacement of transmission main meters
ENGINEER:	Camp Creek Engineering, Laramie, Wyoming
CONTRACTOR:	Six Point Solutions, LLC, Laramie, Wyoming
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2006

158. PROJECT: **Laramie Water Supply**

SPONSOR:	City of Laramie
LOCATION:	Albany County
PROGRAM:	New Development
APPROPRIATION:	$4,400,000.00
ACTUAL EXPENDITURES:	$3,124,801.45
ENGINEER:	Western Water Consultants, Laramie Wyoming;
CONTRACTOR:	High Plains Construction, Casper, Wyoming
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1995, 1996

159. PROJECT: **Laramie West Storage**

SPONSOR:	City of Laramie
LOCATION:	Albany County
PROGRAM:	New Development
APPROPRIATION:	$2,950,000.00
ACTUAL EXPENDITURES:	$2,852,065.26
ENGINEER:	Wester-Wetstein & Associates, Laramie Wyoming;
CONTRACTOR:	High Plains Construction, Casper, Wyoming
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1999

160. PROJECT: **LeClair Irrigation Rehabilitation**

SPONSOR:	LeClair Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$470,000
ACTUAL EXPENDITURES:	$442,845
DESCRIPTION:	Canal repairs
ENGINEER:	Crank Company, Inc.; Kemmerer, Wyoming
CONTRACTOR:	Foster Construction Company, Inc.; Riverton, Wyoming

161. PROJECT: **LeClair Lateral**

SPONSOR:	LeClair Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$750,000
ACTUAL EXPENDITURES:	$361,342
DESCRIPTION:	Lateral open ditches replacement with pipelines.
ENGINEER:	Apex Surveying - R.D. Connell and Associates, Riverton, Wyoming
CONTRACTOR:	LeClair Irrigation District; Riverton, Wyoming

162. PROJECT: **Lingle Water Supply Phase II**

SPONSOR:	Town of Lingle
LOCATION:	Goshen County
PROGRAM:	Rehabilitation
APPROPRIATION:	$711,000
ACTUAL EXPENDITURES:	$693,035
DESCRIPTION:	Higher elevation standpipe, upgrade pipelines
ENGINEER:	BenchMark of Torrington, P.C.; Torrington, Wyoming
CONTRACTOR:	Strong Construction, Inc., Torrington, Wyoming
YEAR COMPLETED:	2005
SESSION LAW DATE:	2002

163. PROJECT: **Lingle Water Supply System Rehabilitation**

SPONSOR:	Town of Lingle
LOCATION:	Goshen County
PROGRAM:	Rehabilitation
APPROPRIATION:	$400,000
ACTUAL EXPENDITURES:	$312,228
DESCRIPTION:	Upgrade transmission pipelines
ENGINEER:	BenchMark of Torrington, P.C.; Torrington, Wyoming
CONTRACTOR:	Scott and Son, Inc. Torrington, Wyoming
YEAR COMPLETED:	2001
SESSION LAW DATE:	1999

164. PROJECT: **Little Snake Rehabilitation**

SPONSOR:	Little Snake Conservancy District
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$2,700,000
ACTUAL EXPENDITURES:	$2,700,000
DESCRIPTION:	Diversion Dam Replacements and Canal Repairs
ENGINEER:	States West Inc., Cheyenne, Wyoming
CONTRACTOR:	Bartlett Construction, Hanna, Wyoming

165. PROJECT: **Little Snake River Small Dams & Reservoirs**

SPONSOR:	Little Snake River Conservation District
LOCATION:	Carbon County
PROGRAM:	New Development
APPROPRIATION:	$265,000
ACTUAL EXPENDITURES:	$265,000
DESCRIPTION:	Construction of two small dams and reservoirs
ENGINEER:	Rio Verde Engineering; Pinedale, Wyoming
CONTRACTOR:	Willies Dirt Service; Wamsutter, Wyoming

166. PROJECT: **Lovell Irrigation District Rehabilitation**

SPONSOR:	Lovell Irrigation District
LOCATION:	Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$820,000
ACTUAL EXPENDITURES:	$749,958
DESCRIPTION:	Canal Repairs
ENGINEER:	Soil Conservation Service; Casper, Wyoming
CONTRACTOR:	Nichols & Lewis, Inc.; Lovely, Wyoming C. A. Wilson Construction Company; Cowley, Wyoming Jerry's Irrigation and Drainage, Inc.; Powell, Wyoming Dale Weaver, Inc.; Worland, Wyoming
YEAR COMPLETED:	1990
SESSION LAW DATE:	1985

167. PROJECT: **Lusk Water Supply**

SPONSOR:	Town of Lusk
LOCATION:	Niobrara County
PROGRAM:	New Development
APPROPRIATION:	$709,000
ACTUAL EXPENDITURES:	$550,982
DESCRIPTION:	Transmission pipelines, storage tank, pump, controls
ENGINEER:	MK Centennial Engineering, Inc., Cheyenne, Wyoming
CONTRACTOR:	Western Municipal Construction, Inc., Billings, Montana
YEAR COMPLETED:	1998
SESSION LAW DATE:	1996

168. PROJECT: **Lyman Springs Rehabilitation**

SPONSOR:	Town of Lyman
LOCATION:	Uinta County
PROGRAM:	Rehabilitation
APPROPRIATION:	$255,000
ACTUAL EXPENDITURES:	$255,000
DESCRIPTION:	Springs renovation and pumping station
ENGINEER:	Forsgren Associates, Inc.; Evanston, Wyoming
CONTRACTOR:	X-it Construction, Inc.; Lyman, Wyoming S.C.I. Inc.; Lyman, Wyoming

169. PROJECT: **Manville Water Supply**

SPONSOR:	Town of Manville
LOCATION:	Niobrara County
PROGRAM:	New Development
APPROPRIATION:	$69,000
ACTUAL EXPENDITURES:	$67,104
DESCRIPTION:	New well and supply pipeline
ENGINEER:	Western Water Consultants, Laramie Wyoming
CONTRACTOR:	Landkammer Trenching, Lance Creek, Wyoming
YEAR COMPLETED:	2002
SESSION LAW YEAR:	1998

170. PROJECT: **McKenney Water Supply**

SPONSOR:	McKenney I&S District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$140,000
ACTUAL EXPENDITURES:	$109,107
DESCRIPTION:	Transmission pipelines
ENGINEER:	TSP TWO, Inc.; Gillette, Wyoming
CONTRACTOR:	Larry's Inc.; Gillette, Wyoming
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1994

171. PROJECT: **McNutt Water Supply**

SPONSOR:	McNutt Improvement and Service District
LOCATION:	Washakie County
PROGRAM:	New Development
APPROPRIATION:	$25,000
ACTUAL EXPENDITURES:	$23,317.28 (Level II)
DESCRIPTION:	Potable water delivery system.
ENGINEER:	BRS, Inc., Riverton, Wyoming
CONTRACTOR:	None
YEAR COMPLETED:	N.A.
SESSION LAW YEAR:	1999

172. PROJECT: **Means Water Supply**

SPONSOR:	Means First Extension W&S District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$225,000
ACTUAL EXPENDITURES:	$212,253
DESCRIPTION:	Pump station improvements, storage tank, and transmission pipeline
ENGINEER:	Bruce Engineering Services; Gillette, Wyoming
CONTRACTOR:	DRM, Inc.; Gillette, Wyoming
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1994

173. PROJECT: **Meade Creek Ditch Rehabilitation**

SPONSOR:	Meade Creek Ditch Company Irrigation District
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$401,250
ACTUAL EXPENDITURES:	$267,500
DESCRIPTION:	Directional Drilled Pipe Drop through Tunnel Hill
ENGINEER:	Natural Resources Conservation Service
OWNER'S REPRESENTATIVE:	EnTech, Inc., Sheridan, Wyoming
CONTRACTOR:	Fletcher Construction, Sheridan, Wyoming
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2005, 2006

174. PROJECT: **Meeteetse Storage Tank Rehabilitation**

SPONSOR:	Town of Meeteetse
LOCATION:	Park County
PROGRAM:	Rehabilitation
APPROPRIATION:	$125,000
ACTUAL EXPENDITURES:	$104,830.77
DESCRIPTION:	Repainting of an existing potable water storage tank.
ENGINEER:	James Gores and Associates, Riverton, Wyoming
CONTRACTOR:	Eastern Colorado Builders, Inc., Colorado Springs, Colorado
YEAR COMPLETED:	2006
SESSION LAW YEAR:	2005

175. PROJECT: **Meeteetse Water Supply**

SPONSOR:	Town of Meeteetse
LOCATION:	Park County
PROGRAM:	New Development
APPROPRIATION:	$333,000
ACTUAL EXPENDITURES:	$333,000
DESCRIPTION:	New intake structure, raw water pipeline, and finished water pipeline
ENGINEER:	Sear -Brown, Fort Collins, Colorado
CONTRACTOR:	LAMAX Construction, Basin, Wyoming
DATE COMPLETED:	2001

176. PROJECT: **Midvale Diversion Dam Rehabilitation**

SPONSOR:	Midvale Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$138,000
ACTUAL EXPENDITURES:	$127,842
DESCRIPTION:	Replace gearboxes on Diversion Dam headgates
ENGINEER:	Anderson Consulting Engineers, Inc., Fort Collins, CO.
CONTRACTOR:	Midvale Irrigation District
MATERIALS:	Advanced Hydraulics & Machine, Casper, Wyoming Mountain Peak Controls, Inc., Brighton, Colorado
DATE COMPLETED:	2008
SESSION LAW DATE:	2005

177. PROJECT: **Midvale Sand Mesa Pipeline**

SPONSOR:	Midvale Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$3,000,000
ACTUAL EXPENDITURES:	$2,900,879
DESCRIPTION:	Gravity pressure irrigation delivery pipeline
ENGINEER:	Natural Resources Conservation Service R. D. Connell & Associates; Riverton, Wyoming
CONTRACTOR:	Midvale Irrigation District
DATE COMPLETED:	1999
SESSION LAW DATE:	1995

178. PROJECT: **Midwest Rehabilitation**

SPONSOR:	Town of Midwest
LOCATION:	Natrona County
PROGRAM:	Rehabilitation
APPROPRIATION:	$100,000
ACTUAL EXPENDITURES:	$100,000
DESCRIPTION:	Pipeline
ENGINEER:	Geocivil Engineers, Inc.; Casper, Wyoming
CONTRACTOR:	La Max Construction; Basin, Wyoming

179. PROJECT: **Moorcroft Water Supply**

SPONSOR:	Town of Moorcroft
LOCATION:	Crook County
PROGRAM:	New Development
APPROPRIATION:	$930,000
ACTUAL EXPENDITURES:	$853,767
DESCRIPTION:	Wells, pipeline, and storage tank
ENGINEER:	Weston Engineering; Upton, Wyoming
CONTRACTOR:	Hot Iron, Inc.; Gillette, Wyoming
	Williams Drilling Co.; Gillette, Wyoming
DATE COMPLETED:	1997
SESSION LAW DATE:	1994

180. PROJECT: **Muddy Guard**

SPONSOR:	North Fork Irrigation District
LOCATION:	Johnson County
PROGRAM:	New Development
APPROPRIATION:	$600,000
ACTUAL EXPENDITURES:	$600,000
DESCRIPTION:	Purchase of minimum pool in storage
ENGINEER:	NA
CONTRACTOR:	NA

181. PROJECT: **Natrona County Regional Rehabilitation**

SPONSOR:	Central Wyoming Water System JPB
LOCATION:	Natrona County
PROGRAM:	Rehabilitation
APPROPRIATION:	$5,357,000.00
ACTUAL EXPENDITURES:	$5,357,000.00
DESCRIPTION:	Wellfield, pipeline and storage tank rehabilitation,
ENGINEER:	CH2M Hill, Denver, Colorado
CONTRACTOR	Lillard & Clark, Denver, Colorado
	Water System Management, Gillette, Wyoming
	Mandros Painting, Inc., Rock Springs, Wyoming
Completion Date	June 2002
Session Law	1995-1998

182. PROJECT: **Natrona County Regional Water Supply**

SPONSOR:	Central Wyoming Regional Water System JPB
LOCATION:	Natrona County
PROGRAM:	New Development
APPROPRIATION:	$26,750,000.00
ACTUAL EXPENDITURES:	$25,421,544.86
DESCRIPTION:	Transmission Pipelines, storage tanks, pumping stations, disinfection facilities and appurtenances
ENGINEER:	CH2M Hill, Denver, Colorado
CONTRACTOR:	Lillard & Clark, Denver, Colorado
	Hedquist Construction, Inc., Casper, Wyoming
	JTL Group, Inc., Casper, Wyoming
	High Plains Construction, Inc., Casper, Wyoming
COMPLETION DATE:	June 2002
SESSION LAW:	1995-1998

183. PROJECT: **Newcastle Area Water Supply**

SPONSOR:	City of Newcastle
LOCATION:	Weston County
PROGRAM:	New Development
APPROPRIATION:	$2,200,000
ACTUAL EXPENDITURES:	$1,472,099
DESCRIPTION:	Four pressure reducing stations, booster pump station, pipeline to storage tank.
ENGINEER:	Wester-Wetstein & Associates, Inc.; Laramie, Wyoming City of Newcastle; Newcastle, Wyoming
CONTRACTOR:	Sundance Plumbing and Heating; Newcastle, Wyoming DRM, Inc.; Gillette, Wyoming
DATE COMPLETED:	2006
SESSION LAW DATE:	2000, 2004

184. PROJECT: **Nine Mile Water Supply**

SPONSOR:	Nine Mile Water and Sewer District
LOCATION:	Albany County
PROGRAM:	New Development
APPROPRIATION:	$920,000
ACTUAL EXPENDITURES	$526,698.70
DESCRIPTION:	Water main system including taps to City of Laramie transmission lines, control house, a booster pump station, and transmission mains.
ENGINEER:	WWC Engineering; Laramie, Wyoming
CONTRACTOR:	Strong Construction; Torrington, Wyoming
COMPLETION DATE:	February 2003
SESSION LAW:	2000

185. PROJECT: **North Alpine**

SPONSOR:	North Alpine Improvement and Service District
LOCATION:	Lincoln County
PROGRAM:	Rehabilitation
APPROPRIATION:	$257,000
ACTUAL EXPENDITURES	$254,761.42
DESCRIPTION:	Water system including new wells, buried storage transmission lines, control house and pump station.
ENGINEER:	Sunrise Engineering; Afton, Wyoming Rondezvous Engineering, Jackson, Wyoming
CONTRACTOR:	VanDeburg Excavation; Thayne, Wyoming Thomas Drilling, Afton, Wyoming
COMPLETION DATE:	October 2005
SESSION LAW:	2003

186. PROJECT: **North Fork Crazy Woman Rehabilitation**

SPONSOR:	Crazy Woman Watershed Improvement District
LOCATION:	Johnson County
PROGRAM:	Rehabilitation
APPROPRIATION:	$650,000
ACTUAL EXPENDITURES:	$471,366
DESCRIPTION:	Canal improvements, pipeline
ENGINEER:	HKM Associates; Sheridan, Wyoming
CONTRACTOR:	S&S Builders; Gillette, Wyoming Mollinax Concrete Service Company; Sheridan, Wyoming
YEAR COMPLETED:	1995
SESSION LAW YEAR:	1992

187. PROJECT: **North Platte Gages**

SPONSOR:	State Engineer's Office
LOCATION:	Carbon, Converse, Goshen and Natrona Counties
PROGRAM:	Rehabilitation
APPROPRIATION:	$850,000
ACTUAL EXPENDITURES:	$790,000 (approx)
DESCRIPTION:	Six (6) major stream gaging stations on the North Platte River and tributaries
ENGINEER:	States West Water Resources; Cheyenne, Wyoming
CONTRACTOR:	Bartlett Construction; Hanna, Wyoming High County Construction; Casper, Wyoming Rieman Construction; Cheyenne, Wyoming
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1989

188. PROJECT: **North Uinta/Bear River Water Supply**

SPONSOR:	Town of Bear River
LOCATION:	Uinta County
PROGRAM:	New Development
APPROPRIATION:	$580,000
ACTUAL EXPENDITURES:	$580,000
DESCRIPTION:	Buried concrete storage tank, pump house renovation, and transmission lines.
ENGINEER:	Cook/Sanders Associates; Evanston, Wyoming
CONTRACTOR:	JASCO Construction; South Weber, Utah Kilroy and Company; Alpine, Wyoming
YEAR COMPLETED:	2006
SESSION LAW YEAR:	2003

189. PROJECT: **Northwest Rural Water Storage**

SPONSOR:	Northwest Rural Water District
LOCATION:	Park and Big Horn Counties
PROGRAM:	New Development
APPROPRIATION:	$1,120,000
ACTUAL EXPENDITURES:	$1,111,506
DESCRIPTION:	Add eight buried fiberglass tanks over five sites.
ENGINEER:	Engineering Associates, Inc.; Cody, Wyoming
CONTRACTOR:	Hot Iron, Inc.; Gillette, Wyoming
DATE COMPLETED:	2005
SESSION LAW DATE:	2003

190. PROJECT: **Northwest Rural Water Storage II**

SPONSOR:	Northwest Rural Water District
LOCATION:	Park and Big Horn Counties
PROGRAM:	New Development
APPROPRIATION:	$2,960,000
ACTUAL EXPENDITURES:	$2,817,207
DESCRIPTION:	Garland area expansion, added storage at Sage Creek.
ENGINEER:	Engineering Associates, Inc.; Cody, Wyoming
CONTRACTOR:	LaMax Construction, Inc.; Basin, Wyoming
DATE COMPLETED:	2009
SESSION LAW DATE:	2006

191. PROJECT: **Oakley Water Supply**

SPONSOR:	Oakley Service and Improvement District
LOCATION:	Lincoln County
PROGRAM:	New Development
APPROPRIATION:	$176,000
ACTUAL EXPENDITURES:	$155,710.92
DESCRIPTION:	Water transmission line
ENGINEER:	Sunrise Engineering, Inc.; Afton, Wyoming
CONTRACTOR:	Peavler's Mountain Star, Inc.; Afton, Wyoming
YEAR COMPLETED:	2001
SESSION LAW YEAR:	2001

192. PROJECT: **Osage Water Supply**

SPONSOR:	Osage Water District
LOCATION:	Weston County
PROGRAM:	New Development
APPROPRIATION:	$1,205,000
ACTUAL EXPENDITURES:	$954,951
DESCRIPTION:	Pipeline, storage, disinfection, pump, controls
ENGINEER:	Weston Engineering, Inc.; Upton, Wyoming
CONTRACTOR:	DRM, Inc.; Gillette, Wyoming
YEAR COMPLETED:	2000
SESSION LAW DATE:	1997

193. PROJECT: **Park Reservoir Dam**

SPONSOR:	Park Reservoir Company
LOCATION:	Sheridan County
PROGRAM:	New Development
APPROPRIATION:	$3,750,000
ACTUAL EXPENDITURES:	$3,725,000
DESCRIPTION:	Dam
ENGINEER:	Woodward Clyde Consultants; Denver, Colorado
CONTRACTOR:	McIntyre Construction; Great Falls, Montana
YEAR COMPLETED:	1982
SESSION LAW YEAR:	1981, 1982

194. PROJECT: **Pavillion Water Supply**

SPONSOR:	Town of Pavillion
LOCATION:	Fremont County
PROGRAM:	New Development
APPROPRIATION:	$400,000
ACTUAL EXPENDITURES:	$300,000
DESCRIPTION:	Well, storage tank, and pipeline
ENGINEER:	Rolly Connell & Associates; Riverton, Wyoming
CONTRACTOR:	Rieman Construction; Cheyenne, Wyoming Rawhide Mechanical; Riverton, Wyoming
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1994

195. PROJECT: **Pine Bluffs Brule Formation Water Supply**

SPONSOR:	Town of Pine Bluffs
LOCATION:	Laramie County
PROGRAM:	New Development
APPROPRIATION:	$250,000
ACTUAL EXPENDITURES:	$212,044
DESCRIPTION:	Pump, controls, building, pipe, for new well
ENGINEER:	Lidstone & Associates, Inc.; Fort Collins, Colorado
CONTRACTOR:	Town & Country Plumbing, Inc.; Burns, Wyoming
DATE COMPLETED:	2005
SESSION LAW DATE:	2003

196. PROJECT: **Pine Bluffs Supply**

SPONSOR:	Town of Pine Bluffs
LOCATION:	Laramie County
PROGRAM:	New Development
APPROPRIATION:	$1,245,000
ACTUAL EXPENDITURES:	$1,185,639
DESCRIPTION:	Transmission pipeline, well rehab, new irrigation well
ENGINEER:	Lidstone & Associates, Inc.; Fort Collins, Colorado
CONTRACTOR:	Aztec Construction Co., Inc.; Cheyenne, Wyoming Timberline Electric & Control Corp.; Morrison, CO Town & Country Plumbing, Inc.; Burns, Wyoming
DATE COMPLETED:	2004
SESSION LAW DATE:	2000

197. PROJECT: **Pine Bluffs Well Rehabilitation**

SPONSOR:	Town of Pine Bluffs
LOCATION:	Laramie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$155,000
ACTUAL EXPENDITURES:	$132,723
DESCRIPTION:	Well rehabilitation
ENGINEER:	Lidstone & Associates, Inc.; Fort Collins, Colorado
CONTRACTOR:	Sargent Irrigation Company; Scottsbluff, Nebraska
DATE COMPLETED:	2000
SESSION LAW DATE:	1996

198. PROJECT: **Pinedale Intake Project**

SPONSOR:	Town of Pinedale
LOCATION:	Sublette County
PROGRAM:	New Development
APPROPRIATION:	$193,000
ACTUAL EXPENDITURES:	$ 63,050.54
DESCRIPTION:	Rock cover over existing lake intake
ENGINEER:	Rio Verde Engineering.; Pinedale, Wyoming
CONTRACTOR:	Noble Construction; Pinedale, Wyoming
SESSION LAWS:	2002
COMPLETION DATE:	2003

199. PROJECT: **Pinedale Pipeline**

SPONSOR:	Town of Pinedale
LOCATION:	Sublette County
PROGRAM:	New Development
APPROPRIATION:	$320,000
ACTUAL EXPENDITURES:	$202,974
DESCRIPTION:	Transmission pipeline
ENGINEER:	Rio Verde; Pinedale, Wyoming
CONTRACTOR:	Snyder Construction; Lyman, Wyoming

200. PROJECT: **Pinedale Transmission Line**

SPONSOR:	Town of Pinedale
LOCATION:	Sublette County
PROGRAM:	New Development
APPROPRIATION:	$3,550,000
ACTUAL EXPENDITURES:	$2,974,131
DESCRIPTION:	Transmission pipeline
ENGINEER:	Rio Verde Engineering; Pinedale, Wyoming
CONTRACTOR:	Snyder Construction, Inc.; Lyman, Wyoming

201. PROJECT: **Pine Haven Madison Well**

SPONSOR:	Town of Pine Haven
LOCATION:	Crook County
PROGRAM:	New Development
APPROPRIATION:	$115,000
ACTUAL EXPENDITURES:	$ 81,528
DESCRIPTION:	Pump, controls, pipe, for Well #2
ENGINEER:	Wester-Wetstein & Associates; Laramie & Gillette, WY
CONTRACTOR:	Weston Engineering, Inc.; Upton, Wyoming
DATE COMPLETED:	2005
SESSION LAW DATE:	2003

202. PROJECT: **Pine Haven Pipeline Rehabilitation**

SPONSOR:	Town of Pine Haven
LOCATION:	Crook County
PROGRAM:	Rehabilitation
APPROPRIATION:	$235,000
ACTUAL EXPENDITURES:	$235,000
DESCRIPTION:	Upgrade transmission pipelines re-plumb storage
ENGINEER:	Stetson Engineering, Inc. Gillette, Wyoming
CONTRACTOR:	Hot Iron, Inc. Gillette, Wyoming
DATE COMPLETED:	2002
SESSION LAW DATE:	2001

203. PROJECT: **Pine Haven Water Supply**

SPONSOR:	Town of Pine Haven
LOCATION:	Crook County
PROGRAM:	New Development
APPROPRIATION:	$165,000
ACTUAL EXPENDITURES:	$ 97,162
DESCRIPTION:	Pipeline, storage tank
ENGINEER:	Bearlodge Engineering; Sundance, Wyoming
CONTRACTOR:	Sundance Construction; Newcastle, Wyoming
YEAR COMPLETED:	1989
SESSION LAW YEAR:	1988

204. PROJECT: **Pioneer Canal**

SPONSOR:	Pioneer Canal-Lake Hattie Irrigation District
LOCATION:	Albany County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,400,000
ACTUAL EXPENDITURES:	$1,270,195
DESCRIPTION:	Repairs to canal structures and diversion on Little Laramie
ENGINEER:	Western Water Consultants; Laramie, Wyoming
CONTRACTOR:	Barlett, Inc.; Hanna, Wyoming Domson, Inc.; Torrington, Wyoming
DATE COMPLETED:	1996
SESSION LAW DATE:	1990

205.	**PROJECT:**	**Poison Spider Water Supply**
	SPONSOR:	Poison Spider Improvement & Service Dist.
	LOCATION:	Natrona County
	PROGRAM:	New Development
	APPROPRIATION:	$640,000
	ACTUAL EXPENDITURES:	$538,076
	DESCRIPTION:	Pipelines, metering, chlorination
	ENGINEER:	Civil Engineering Professionals, Casper
	CONTRACTOR:	Hedquist Construction, Inc., Casper, Wyoming
	YEAR COMPLETED:	1997
	SESSION LAW YEAR:	1995
206.	**PROJECT:**	**Porto Canal**
	SPONSOR:	Porto Canal Irrigation District
	LOCATION:	Lincoln County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$808,000
	ACTUAL EXPENDITURES:	$681,040
	DESCRIPTION:	Converting open ditch to pipeline
	ENGINEER:	Sunrise Engineering; Afton, Wyoming Laramie, Wyoming
	CONTRACTOR:	H-K Construction; Idaho Falls, Idaho
207.	**PROJECT:**	**Powell Master Plan/Powell Water Supply Rehabilitation**
	SPONSOR:	City of Powell
	LOCATION:	Park County
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$1,163,000
	ACTUAL EXPENDITURES:	$1,163,000
	DESCRIPTION:	Construction of elevated water storage tank, repainting of the existing elevated water storage tank, installation of pressure control facilities and rerouting of some transmission pipelines.
	ENGINEER:	Engineering Associates, Cody, Wyoming
	CONTRACTOR:	Maguire Iron, Inc., Sioux Falls, South Dakota Engineered Fluids, Inc., Centralia, Illinois Western Municipal Construction, Gillette, Wyoming
	YEAR COMPLETED:	2006
	SESSION LAW YEAR:	2001, 2002, 2003 & 2004
208.	**PROJECT:**	**Ranchester Storage Tank**
	SPONSOR:	Town of Ranchester
	LOCATION:	Sheridan
	PROGRAM:	Rehabilitation
	APPROPRIATION:	$454,000
	ACTUAL EXPENDITURES:	$373,581.77
	DESCRIPTION:	New storage tank
	ENGINEER:	EnTech Engineering, Inc., Sheridan, Wyoming
	CONTRACTOR:	EAI West, Inc., Loveland, CO
	YEAR COMPLETED:	2008
	SESSION LAW YEAR:	2005, 2006

209. PROJECT: **Rawlins Groundwater Supply**

SPONSOR:	City of Rawlins
LOCATION:	Carbon County
PROGRAM:	New Development
APPROPRIATION:	$8,200,000
ACTUAL EXPENDITURES:	$7,505,939
DESCRIPTION:	Wells, pipeline
ENGINEER:	J.M. Montgomery; Laramie, Wyoming
CONTRACTOR:	Several

210. PROJECT: **Rawlins Springs Rehabilitation**

SPONSOR:	City of Rawlins
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$220,000
ACTUAL EXPENDITURES:	$55,722
DESCRIPTION:	Springs enhancement
ENGINEER:	J.M. Montgomery; Laramie, Wyoming
CONTRACTOR:	City of Rawlins

211. PROJECT: **Rawlins Treated Water Tank Rehabilitation**

SPONSOR:	City of Rawlins
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,727,930
ACTUAL EXPENDITURES:	$1,154,298
DESCRIPTION:	Rehabilitation of Painted Hills and Hospital Tanks
ENGINEER:	PMPC Civil Engineers, Saratoga, WY
CONTRACTOR:	Purcell P & C, LLC, Richland WA
YEAR COMPLETED:	2009
SESSION LAW YEAR:	2007

212. PROJECT: **Rawlins Water Supply**

SPONSOR:	City of Rawlins
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$3,810,000
ACTUAL EXPENDITURES:	$3,547,318.05
DESCRIPTION:	Construct North Platte River raw water intake, pump station and transmission line; rehabilitation of existing Thayer pump station and construction of a treated water transmission line to Sinclair storage tank
ENGINEER:	Western Water Consultants, Laramie, Wyoming
CONTRACTOR:	Raw water system improvements – Western Municipal Construction, Billings Montana Treated water transmission line – Three Sons Construction, Hanna, Wyoming
YEAR COMPLETED:	2003
SESSION LAW YEAR:	1998 and 2002

213. PROJECT: **Riverside**

SPONSOR:	Sierra Madre Water & Sewer Joint Powers Board
LOCATION:	Carbon County
PROGRAM:	New Development
APPROPRIATION:	$1,225,000
ACTUAL EXPENDITURES:	$834,574
DESCRIPTION:	Municipal water supply
ENGINEER:	PMPC; Saratoga, Wyoming
CONTRACTOR:	Bartlett Construction; Hanna, Wyoming
YEAR COMPLETED:	1996
SESSION LAW YEAR:	1992

214. PROJECT: **Riverton Raw Water Supply Rehabilitation Project**

SPONSOR:	City of Riverton
LOCATION:	Frement County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,086,500.00
ACTUAL EXPENDITURES:	$64,293.30 (City refunded this amount.)
DESCRIPTION:	Project construction, including final design services, plans and specifications, for rehabilitating a raw water conveyance system which serves the City of Riverton.
ENGINEER:	Apex Surveying, Inc.; Riverton, Wyoming
CONTRACTOR:	None
YEAR COMPLETED:	Project was terminated
SESSION LAW YEAR:	2001 and 2004

215. PROJECT: **Riverton Valley**

SPONSOR:	City of Riverton/Riverton Valley Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$5,750,000
ACTUAL EXPENDITURES:	$5,743,436
DESCRIPTION:	Canal, pipeline
ENGINEER:	R.D. Connell and Associates; Riverton, Wyoming
CONTRACTOR:	Larry's Inc.; Gillette, Wyoming

216. PROJECT: **Riverton Valley Laterals**

SPONSOR:	City of Riverton/Riverton Valley Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$350,000
ACTUAL EXPENDITURES:	$348,544
DESCRIPTION:	Canal, pipeline
ENGINEER:	R.D. Connell and Associates; Riverton, Wyoming
CONTRACTOR:	City of Riverton/Riverton Valley Irrigation District; Riverton, Wyoming

217. PROJECT: **Riverton Valley Rehabilitation No. 2-I**

SPONSOR:	Riverton Valley Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$335,000
ACTUAL EXPENDITURES:	$334,987
DESCRIPTION:	Rehabilitate various laterals on the system.
ENGINEER:	Apex Engineering, Riverton, Wyoming
CONTRACTOR:	Riverton Valley Irrigation District., Riverton, Wyoming
YEAR COMPLETED:	2007
SESSION LAW YEAR:	2002

218. PROJECT: **Riverton Valley Rehabilitation #2, Phase II/Riverton Valley Underflow Project**

SPONSOR:	Riverton Valley Irrigation District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$140,000
ACTUAL EXPENDITURES:	$105,024.36
DESCRIPTION:	Rehabilitation of four underflow structures
ENGINEER:	Apex Surveying, Inc., Riverton, Wyoming
CONTRACTOR:	Doug Evans Excavation, Riverton, Wyoming
YEAR COMPLETED:	2005
SESSION LAW YEAR:	2003

219. PROJECT: **Riverton Water Supply**

SPONSOR:	City of Riverton
LOCATION:	Fremont County
PROGRAM:	New Construction
APPROPRIATION:	$312,000
ACTUAL EXPENDITURES:	$283,106
DESCRIPTION:	Well and Transmission Pipeline
ENGINEER:	Wester-Wetstein & Assoc., Inc., Laramie, Wyoming
CONTRACTOR:	Patrick Construction

220. PROJECT: **Rock River Transmission Pipeline**

SPONSOR:	Town of Rock River
LOCATION:	Albany County
PROGRAM:	Rehabilitation
APPROPRIATION:	$670,000
ACTUAL EXPENDITURES:	$495,246
DESCRIPTION:	Intake Structure and Raw Water Transmission Line
ENGINEER:	Banner Associates; Laramie, Wyoming
CONTRACTOR:	Bartlett, Inc.; Hanna, Wyoming Moltz Constructors, Inc.; Cody, Wyoming
DATE COMPLETED:	2001

221. PROJECT: **Rock Springs/Green River Area Supply**

SPONSOR:	GR-RS-SC JPWB
LOCATION:	Sweetwater County
PROGRAM:	New Development
APPROPRIATION:	$27,000,000
ACTUAL EXPENDITURES:	$27,000,000
DESCRIPTION:	Transmission Line, Storage, Pumping, Controls
ENGINEER:	Forsgren Engineering, Evanston, Wyoming Crank Companies, Kemmerer, Wyoming
CONTRACTOR:	DeBernardi Construction, Rock Springs, Wyoming Snyder Construction, Lyman, Wyoming H-K Construction, Idaho Falls, Idaho High Pains Construction, Casper, Wyoming Resource Engineering, Rock Springs, Wyoming C M E, Green River, Wyoming
ENGINEER:	Forsgren Engineering, Evanston, Wyoming Crank Companies, Kemmerer, Wyoming
CONTRACTOR:	DeBernardi Construction, Rock Springs, Wyoming Snyder Construction, Lyman, Wyoming H-K Construction, Idaho Falls, Idaho High Pains Construction, Casper, Wyoming Resource Engineering, Rock Springs, Wyoming C M E, Green River, Wyoming

222. PROJECT: **Rolling Hills Water Supply**

SPONSOR:	Town of Rolling Hills
LOCATION:	Converse
PROGRAM:	New Development
APPROPRIATION:	$282,000
ACTUAL EXPENDITURES:	$221,878
DESCRIPTION:	New Tank and Transmission Lines
ENGINEER:	R. C. H and Associates, Glenrock, Wyoming
CONTRACTOR:	CVIC, Casper; Phipps, Glenrock; D.C. Drilling, Lusk, Wyoming; Bartlett, Hanna, Wyoming
DATE COMPLETED:	2001
SESSION LAW YEAR:	2000

223. PROJECT: **Rolling Hills Well**

SPONSOR:	Town of Rolling Hills
LOCATION:	Converse County
PROGRAM:	Rehabilitation
APPROPRIATION:	$225,000
ACTUAL EXPENDITURES:	$205,722.67
DESCRIPTION:	New Well
ENGINEER:	Wester-Wetstein and Associates, Laramie, WY
CONTRACTOR:	Ruby Drilling Gillette, Wyoming
YEAR COMPLETED:	2001

224. PROJECT: **Sahara Rehabilitation**

SPONSOR:	Powder River Irrigation District
LOCATION:	Johnson County
PROGRAM:	Rehabilitation
APPROPRIATION:	$900,000
ACTUAL EXPENDITURES:	$900,000
DESCRIPTION:	Diversion structure, canal improvements
ENGINEER:	Western Water Consultants; Sheridan, Wyoming
CONTRACTOR:	Foster Construction; Riverton, Wyoming
YEAR COMPLETED:	1995
SESSION LAW YEAR:	1992, 1993

225. PROJECT: **Salt Creek Water Supply**

SPONSOR:	Salt Creek Water & Sewer District
LOCATION:	Weston County
PROGRAM:	New Development
APPROPRIATION:	$690,000
ACTUAL EXPENDITURES:	$690,000
DESCRIPTION:	Upgrade transmission pipeline, put new well on line
ENGINEER:	Wester-Wetstein & Associates, Inc. Laramie, Wyoming
CONTRACTOR:	Hawley, Inc., Torrington, Wyoming
DATE COMPLETED:	2003
SESSION LAW YEAR:	2000

226. PROJECT: **Saratoga Storage Standpipe Rehabilitation**

SPONSOR:	Town of Saratoga and Carbon County Impact JPB
LOCATION:	Carbon County
PROGRAM:	Rehabilitation
APPROPRIATION:	$200,000
ACTUAL EXPENDITURES:	$172,569.26
DESCRIPTION:	Rehabilitation of a 1 million gallon welded steel storage standpipe that was constructed in 1978. The major rehabilitation items for included stair and railing modifications, relocation of the overflow piping, sandblasting and painting the interior, cleaning and painting the exterior, and installing a cathodic protection system.
ENGINEER:	PMPC Civil Engineers, Saratoga, Wyoming
CONTRACTOR:	Coating Systems, Inc.
YEAR COMPLETED:	2005
SESSION LAW YEAR:	2004

227. PROJECT: **Shell Canal**

SPONSOR:	Shell Valley Watershed Improvement District
LOCATION:	Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$190,000
ACTUAL EXPENDITURES:	$190,000
DESCRIPTION:	Sheldon Gulch Siphon, Canal repairs
ENGINEER:	Soil Conservation Service; Worland, Wyoming
CONTRACTOR:	Big Horn Ready Mix, Inc; Greybull, Wyoming
YEAR COMPLETED:	1989
SESSION LAW DATE:	1983

228. PROJECT: **Shell Valley/Greybull Water Supply**

SPONSOR:	Town of Greybull
LOCATION:	Big Horn County
PROGRAM:	New Development
APPROPRIATION:	$666,400
ACTUAL EXPENDITURES:	$521,291
DESCRIPTION:	Wells, pipeline
ENGINEER:	Crank Company; Kemmerer, Wyoming
CONTRACTOR:	Continental Construction; Jackson, Wyoming
YEAR COMPLETED:	1989
SESSION LAW YEAR:	1987

229. PROJECT: **Sheridan Area Water Supply**

LEVEL:	III
PROGRAM:	New Development
SPONSOR:	Sheridan Area Water Supply Joint Powers Board
LOCATION:	Sheridan County
PROGRAM:	New Development
APPROPRIATION:	$37,206,000
ACTUAL EXPENDITURES:	$37,206,000
DESCRIPTION:	Enlargement of Twin Lakes Reservoir, Water transmission facilities, Water treatment plant in Big Goose Valley, Raw water transmission pipeline,
ENGINEER:	Several
CONTRACTOR:	Several (21 separate contracts)
YEAR COMPLETED:	2000
SESSION LAW YEAR;	1989, 1990, 1993, 1996

230. PROJECT: **Sheridan Big Goose Water Supply**

SPONSOR:	City of Sheridan
LOCATION:	Sheridan County
PROGRAM:	New Development
APPROPRIATION:	$2,291,000
ACTUAL EXPENDITURES:	$2,184,261
DESCRIPTION:	Update and improve the Sheridan Big Goose Water Supply Intake
ENGINEER:	HKM, Sheridan, WY
CONTRACTOR	Larry's, Gillette, WY
YEAR COMPLETED:	2004
SESSION LAW YEARS:	2000, 2002, and 2003

231. PROJECT: **Sheridan Intake Structure**

SPONSOR:	City of Sheridan
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$200,000
ACTUAL EXPENDITURES:	$200,000
DESCRIPTION:	Diversion dam
ENGINEER:	TSP; Sheridan, Wyoming
CONTRACTOR:	Husman Construction; Sheridan, Wyoming

232. PROJECT: **Sheridan Pipeline Rehabilitation**

SPONSOR:	City of Sheridan
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$6,044,000
ACTUAL EXPENDITURES:	$5,880,982.19
DESCRIPTION:	Transmission line replacement
ENGINEER:	HKM Engineering, Sheridan, Wyoming
CONTRACTOR:	Excel Construction, Inc., Sheridan, Wyoming
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2003, 2005, 2006

233. PROJECT: **Sheridan Raw Water Supply**

SPONSOR:	City of Sheridan
LOCATION:	Sheridan County
PROGRAM:	New Development
APPROPRIATION:	$796,000
ACTUAL EXPENDITURES:	$796,000
ENGINEER:	MSE-HKM, Sheridan, Wyoming.
CONTRACTOR:	Larry's Inc, Gillette, Wyoming
YEAR COMPLETED:	2001

234. PROJECT: **Sheridan Raw Water Supply Rehabilitation Project**

SPONSOR:	City of Sheridan
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$50,000
ACTUAL EXPENDITURES:	$42,289.66
DESCRIPTION:	Raw water transmission to Kendrick Golf Course, engineering design of pump station.
ENGINEER:	HKM Engineering, Sheridan, WY
CONTRACTOR:	NA, design only
YEAR COMPLETED	2003
SESSION LAW YEAR	2001

235. PROJECT: **Shoshone Drop Structures**

SPONSOR:	Shoshone Irrigation District
LOCATION:	Park County
PROGRAM:	Rehabilitation
APPROPRIATION:	$570,000
ACTUAL EXPENDITURES:	$549,777
DESCRIPTION:	Five Garland Canal Drop Structures, Lateral 36F, Ralston Reservoir Check Structure
ENGINEER:	Sage Civil Engineering; Cody, Wyoming
MATERIALS:	J&E Irrigation, Inc., Basin, Wyoming White Cap Construction Supply; Ft. Collins, Colorado Teton Steel, Inc.; Casper, Wyoming Eden Farms; Powell, Wyoming Big Horn Redi-Mix, Inc.; Thermopolis, Wyoming
DATE COMPLETED:	2006
SESSION LAW DATE:	2002

236. PROJECT: **Shoshone Municipal Pipeline**

SPONSOR:	Shoshone Municipal Water Supply Joint Powers Board
LOCATION:	Park and Big Horn Counties
PROGRAM:	New Development
APPROPRIATION:	$38,750,000
ACTUAL EXPENDITURES:	$38,451,942
DESCRIPTION:	Pipeline, storage tanks, controls
ENGINEER:	Banner Associates; Laramie, Wyoming
CONTRACTOR:	Barcon; Sheridan, Wyoming TIC; Casper, Wyoming ASI Moltz; Cody, Wyoming

237. PROJECT: **Shoshone Rehabilitation**

SPONSOR:	Shoshone Irrigation Project Joint Powers Board
LOCATION:	Park/Big Horn Counties
PROGRAM:	Rehabilitation
APPROPRIATION:	$7,500,000
ACTUAL EXPENDITURES:	$7,448,171
DESCRIPTION:	Pipelines, canal structures, tunnel grouting, siphon coating, headgate repair
ENGINEER:	Graham, Dietz & Associates, Powell, Wyoming Engineering Associates, Cody, Wyoming Inberg-Miller Engineers, Powell, Wyoming ESA, Bozeman, Montana Engineering Science, Inc., Salt Lake City, Utah Water Resources Engineers, Powell, Wyoming
CONTRACTOR:	LaMax Construction, Basin, Wyoming Miller Fabrication, Lovell, Wyoming Advanced American Diving, Oregon City, Oregon Elkhorn Construction, Powell, Wyoming Moltz Construction, Cody, Wyoming Williams Plumbing & Heating, Bozeman, Montana Excel Construction, Sheridan, Wyoming Big Horn Ready-Mix, Greybull, Wyoming
MATERIALS:	Elk River Concrete, Helena, Montana A-C Supply, Basin, Wyoming Boomers Irrigation, Powell, Wyoming J&E, Inc., Greybull, Wyoming TNT Irrigation, Inc., Powell, Wyoming
DATE COMPLETED:	2001
SESSSION LAW DATE:	1992

238. PROJECT: **Shoshoni Water Supply**

SPONSOR:	Town of Shoshoni
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$740,000
ACTUAL EXPENDITURES:	$660,066
DESCRIPTION:	Well replacement, water storage improvements
ENGINEER:	Civil Engineering Professionals, Inc.; Casper, Wyoming
CONTRACTOR:	71 Construction, Inc.; Casper, Wyoming
YEAR COMPLETED:	1995
SESSION LAW YEAR:	1991

239. PROJECT: **Sidon Bitter Creek Crossing Rehabilitation**

SPONSOR:	Sidon Irrigation District
LOCATION:	Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$217,000
ACTUAL EXPENDITURES:	$217,000
DESCRIPTION:	Replace concrete structure passing Bitter Creek over Sidon Canal
ENGINEER:	Engineering Associates, Inc., Cody, Wyoming
CONTRACTOR:	Wilson Brothers Construction, Cowley, Wyoming
YEAR COMPLETED:	2004
SESSION LAW YEAR:	2002

240. PROJECT: **Sidon Canal Rehabilitation**

SPONSOR:	Sidon Irrigation District
LOCATION:	Big Horn County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,060,000
ACTUAL EXPENDITURES:	$730,260
DESCRIPTION:	Diversion Headgate, Inverted Siphons
ENGINEER:	Inberg-Miller Engineers, Riverton, Wyoming
CONTRACTOR:	Excel Construction, Inc., Sheridan, Wyoming
DATE COMPLETED:	1998
SESSION LAW DATE:	1995

241. PROJECT: **Sinclair Water Supply Project**

SPONSOR:	Town of Sinclair
LOCATION:	Carbon County
PROGRAM:	New Development
APPROPRIATION:	$672,500 (50% Grant)
ACTUAL EXPENDITURES:	$433,915.35
DESCRIPTION:	New potable water storage tank, connecting pipeline and appurtenances.
ENGINEER:	PMPC Consulting Engineers, Saratoga, Wyoming
CONTRACTOR:	Hot Iron Construction, Inc., Gillette, Wyoming
YEAR COMPLETED:	2004
SESSION LAW YEAR:	2002

242. PROJECT: **Sinnard Dam**

SPONSOR:	Horse Creek Conservation District
LOCATION:	Goshen County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,100,000
ACTUAL EXPENDITURES:	$918,814
DESCRIPTION:	Dam and outlet works
ENGINEER:	ECI; Englewood, Colorado
CONTRACTOR:	Domino Construction; Laramie, Wyoming
DATE COMPLETED:	1996
SESSION LAW DATE:	1993

243. PROJECT: **Sleepy Hollow Pipeline**

SPONSOR:	Central Campbell County Improvement and Service District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$200,000
ACTUAL EXPENDITURES:	$200,000
DESCRIPTION:	Construction of a transmission pipeline from the district's new well to the storage tank and installation of a well pump.
ENGINEER:	Falcon Consulting Services, Gillette, Wyoming
CONTRACTOR:	DRM, Inc., Gillette, Wyoming
YEAR COMPLETED:	2006
SESSION LAW YEAR:	2004

244. PROJECT: **Sleepy Hollow Tank Rehabilitation**

SPONSOR:	Central Campbell County Improvement and Service District
LOCATION:	Campbell County
PROGRAM:	Rehabilitation
APPROPRIATION:	$50,000.00
ACTUAL EXPENDITURES:	$45,885.00
DESCRIPTION:	Stabilization of tank settlement, modification of pipeline connections, and rehabilitation of tank control building.
ENGINEER:	Falcon Consulting Services, Gillette, Wyoming
CONTRACTOR:	Long's Plumbing & Heating, Inc., Gillette, Wyoming
YEAR COMPLETED:	2004
SESSION LAW YEAR:	2002

245. PROJECT: **Sleepy Hollow Well Replacement**

SPONSOR:	Central Campbell County I&S District
LOCATION:	Campbell County
PROGRAM:	Rehabilitation
APPROPRIATION:	$350,000
ACTUAL EXPENDITURES:	$227,811
DESCRIPTION:	Replacement of well, pump, controls, pipe
ENGINEER:	Soda Butte Services; Upton, Wyoming
CONTRACTOR:	Williams Drilling; Gillette, Wyoming Hladky Construction; Gillette, Wyoming
DATE COMPLETED:	1996
SESSION LAW DATE:	1994

246. PROJECT: **Smiths Fork Water Supply**

SPONSOR:	Smiths Fork Irrigation District
LOCATION:	Lincoln County
PROGRAM:	Rehabilitation
APPROPRIATION:	$340,000
ACTUAL EXPENDITURES:	$307,027
DESCRIPTION:	Diversion structure, headgate replacement and siphon
ENGINEER:	Versar; Denver, Colorado
CONTRACTOR:	Reiman Construction; Cheyenne, Wyoming

247. PROJECT: **Smoot Water Supply**

SPONSOR:	Greater Smoot Water and Sewer District
LOCATION:	Lincoln County
PROGRAM:	New Development
APPROPRIATION:	$1,100,000
ACTUAL EXPENDITURES:	$1,040,298
DESCRIPTION:	Well, storage tank, spring improvements, pipeline
ENGINEER:	Forsgren Associates; Evanston, Wyoming
CONTRACTOR:	JASCO; Evanston, Wyoming
YEAR COMPLETED:	1994
SESSION LAW YEAR:	1991

248. PROJECT: **South of Laramie Water Supply**

SPONSOR:	South of Laramie Water and Sewer District
LOCATION:	Albany County
PROGRAM:	New Development
APPROPRIATION:	$3,146,400
ACTUAL EXPENDITURES:	$1,771,887
DESCRIPTION:	Storage tank, city connection, pipeline, controls
ENGINEER:	Banner Associates; Laramie, Wyoming
CONTRACTOR:	Hedquist Construction; Casper, Wyoming

249. PROJECT: **Southwest Casper Water Supply**

SPONSOR:	City of Casper
LOCATION:	Natrona County
PROGRAM:	New Development
APPROPRIATION:	$1,000,000
ACTUAL EXPENDITURES:	$1,000,000
DESCRIPTION:	Storage Tank and Pipeline
ENGINEER:	Worthington Lenhart, Carpenter, Inc.
CONTRACTOR:	Lobo, Inc., Casper, Wyoming
YEAR COMPLETED:	1998
SESSION LAW YEAR:	1992

250. PROJECT: **Spring Draw Ditch**

SPONSOR:	Spring Draw Irrigation District
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$350,000
ACTUAL EXPENDITURES:	$282,924
DESCRIPTION:	Ditch reclamation, and pipeline installation
ENGINEER:	Pilch Engineering, Sheridan, Wyoming
CONTRACTOR:	Larry's Inc, Gillette, Wyoming

251. PROJECT: **Squaw Creek Water Supply**

SPONSOR:	Squaw Creek Water District
LOCATION:	Teton County
PROGRAM:	New Development
APPROPRIATION:	$580,000
ACTUAL EXPENDITURES:	$530,297
DESCRIPTION:	Wells, pipeline, storage
ENGINEER:	AVI, Cheyenne, Wyoming
CONTRACTOR:	G. M. Stewart Construction, Evanston, Wyoming
DATE COMPLETED:	1998
SESSION LAW DATE:	1995

252. PROJECT: **Stage II Pipeline**

SPONSOR:	City of Cheyenne
LOCATION:	Carbon, Albany, Laramie Counties
PROGRAM:	New Development
APPROPRIATION:	$48,200,000
ACTUAL EXPENDITURES:	$47,713,214
DESCRIPTION:	Pipeline
ENGINEER:	Banner Associates, Inc.; Laramie, Wyoming
CONTRACTOR:	Guernsey Stone; Sheridan, Wyoming
DATE COMPLETED:	1993
SESSION LAW DATE:	1986

253. PROJECT: **Sulphur Creek**

SPONSOR:	City of Evanston
LOCATION:	Uinta County
PROGRAM:	New Development
APPROPRIATION:	$25,000,000
ACTUAL EXPENDITURES:	$19,758,207
DESCRIPTION:	Dam, pipelines (2)
ENGINEER:	Several
CONTRACTOR:	Several
YEAR COMPLETED;	1990
SESSION LAW YEAR:	1985, 1986

254. PROJECT: **Sundance Tank**

SPONSOR:	Town of Sundance
LOCATION:	Crook County
PROGRAM:	New Development
APPROPRIATION:	$325,000
ACTUAL EXPENDITURES:	$307,210
DESCRIPTION:	Water storage tank
ENGINEER:	Bearlodge Ltd., Inc.; Sundance, Wyoming
CONTRACTOR:	DRM, Inc.; Gillette, Wyoming
DATE COMPLETED:	2001
SESSION LAW DATE:	2000

255. PROJECT: **Superior Water Supply**

SPONSOR:	Town of Superior
LOCATION:	Sweetwater County
PROGRAM:	New Development
APPROPRIATION:	$40,000
ACTUAL EXPENDITURES:	$30,880
DESCRIPTION:	Groundwater well, pump station
ENGINEER:	Wester-Wetstein & Associates; Laramie, Wyoming
CONTRACTOR:	Ward's Well Service; Riverton, Wyoming

256. ROJECT: **Taylor Ditch Siphon**

SPONSOR:	Taylor Watershed Improvement District
LOCATION:	Fremont County
PROGRAM:	Rehabilitation
APPROPRIATION:	$496,915
ACTUAL EXPENDITURES:	$446,890
DESCRIPTION:	Replace Siphon
ENGINEER:	Anderson and Associates; Fort Collins, CO
CONTRACTOR:	Patrick Construction; Lander, WY
COMPLETION DATE	2009
SESSION LAW	2008

257. PROJECT: **Teton Village Water Supply**

SPONSOR:	Teton Village Water and Sewer District
LOCATION:	Teton County
PROGRAM:	New Development
APPROPRIATION:	$700,000
ACTUAL EXPENDITURES:	$700,000
DESCRIPTION:	Two wells, pipeline
ENGINEER:	Nelson Engineering; Jackson, Wyoming
CONTRACTOR:	Thomas Drilling; Afton, Wyoming H-K Construction; Idaho Falls, Idaho
DATE COMPLETED:	1996
SESSION LAW DATE:	1992

258. PROJECT: **Thayne Water Supply**

SPONSOR:	Town of Thayne
LOCATION:	Lincoln County
PROGRAM:	New Development
APPROPRIATION:	$850,000
ACTUAL EXPENDITURES:	$726,221.99
DESCRIPTION:	Springs development, well and transmission line
ENGINEER:	Forsgren Associates Inc.; Evanston, Wyoming
CONTRACTOR:	Peavler’s Mountain Star, Inc.; Afton, Wyoming
YEAR COMPLETED:	2002
SESSION LAW YEAR:	1998

259. PROJECT: **Thirty Three Mile Water Supply**

SPONSOR:	Thirty Three Mile Road Improvement & Service District
LOCATION:	Natrona County
PROGRAM:	New Development
APPROPRIATION:	$1,044,486
ACTUAL EXPENDITURES:	$955,712.02
DESCRIPTION:	Construction of a water transmission system for the District
ENGINEER:	Civil Engineering Professionals, Inc., Casper, Wyoming
CONTRACTOR:	Andreen Hunt Construction, Inc., Casper, Wyoming
YEAR COMPLETED:	2003
SESSION LAW YEAR:	2000

260. PROJECT: **Torringon Raw Water**

SPONSOR:	City of Torrington
LOCATION:	Goshen County
PROGRAM:	New Development
APPROPRIATION:	$96,000
ACTUAL EXPENDITURES:	$96,000
DESCRIPTION:	Two irrigation wells, pumps, pipelines, controls
ENGINEER:	Baker & Associates, Inc., Scottsbluff, Nebraska
CONTRACTOR:	Scott & Son, Inc., Torrington, Wyoming
YEAR COMPLETED:	2004
SESSION LAW YEAR:	2002

261. PROJECT: **Torrington Water Supply**

SPONSOR:	City of Torrington
LOCATION:	Goshen County
PROGRAM:	New Development
APPROPRIATION:	$4,500,000
ACTUAL EXPENDITURES:	$3,391,795
DESCRIPTION:	Three wells, pump station, pipeline, blending facilities
ENGINEER:	Baker & Associates, Inc., Scottsbluff, Nebraska
CONTRACTOR:	Charles Sargent Irrigation, Scottsbluff, Nebraska Strong Construction, Inc., Torrington, Wyoming Ed Hawley, LLC, Torrington, Wyoming Timberline Electronic & Control Corp., Morrison, CO.
YEAR COMPLETED:	2008
SESSION LAW YEAR:	1998, 2008

262. PROJECT: **Turnerville Water Supply Project**

SPONSOR:	Turnerville Water and Sewer District
LOCATION:	Lincoln County
PROGRAM:	Rehabilitation
APPROPRIATION:	$743,994
ACTUAL EXPENDITURES:	$678,616.23
DESCRIPTION:	Transmission pipelines, spring rehabilitation, storage tank
ENGINEER:	Forsgren Associates, Evanston, WY
CONTRACTOR:	Associated Brigham Contractors, Inc. Brigham City, UT
YEAR COMPLETED:	2009
SESSION LAW YEAR:	2004, 2006

263. PROJECT: **Upper Bluff Rehabilitation**

SPONSOR:	Upper Bluff Irrigation District
LOCATION:	Washakie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$436,000
ACTUAL EXPENDITURES:	$399,913
DESCRIPTION:	Pump stations (2), measuring devices, canal repairs
ENGINEER:	Nelson Engineering; Jackson, Wyoming
CONTRACTOR:	Big Horn Red-Mix; Greybull, Wyoming
YEAR COMPLETED:	1993
SESSION LAW YEAR:	1980

264. PROJECT: **Upper Hanover Water Supply**

SPONSOR:	Hanover Irrigation District
LOCATION:	Washakie County
PROGRAM:	Rehabilitation
APPROPRIATION:	$1,200,000
ACTUAL EXPENDITURES:	$1,086,100
DESCRIPTION:	Wasteways, flumes, canal lining
ENGINEER:	Donnell & Associates; Worland, Wyoming
CONTRACTOR:	Big Horn Red-Mix; Greybull, Wyoming Pope Construction; Casper, Wyoming
YEAR COMPLETED;	1994
SESSION LAW YEAR:	1991

265. PROJECT: **Upper Little Warm Springs Water Supply**

SPONSOR:	Warm Springs Water District
LOCATION:	Fremont County
PROGRAM:	New Development
APPROPRIATION:	$1,600,000
ACTUAL EXPENDITURES:	$1,426,485
DESCRIPTION:	Pipelines, pumps, storage tank, controls
ENGINEER:	Jorgensen Engineering, Jackson, Wyoming
CONTRACTOR:	Foster Construction, Riverton, Wyoming
DATE COMPLETED:	2001
SESSION LAW DATE:	1996

266. PROJECT: **Upton Tank Replacement**

SPONSOR:	Town of Upton
LOCATION:	Weston County
PROGRAM:	Rehabilitation
APPROPRIATION:	$158,800
ACTUAL EXPENDITURES:	$158,800
DESCRIPTION:	Water storage standpipe
ENGINEER:	Wester-Wetstein & Associates, Inc. Laramie, Wyoming
CONTRACTOR:	Salt Creek Welding, Inc. Mills, Wyoming
DATE COMPLETED:	2002
SESSION LAW DATE:	2002

267. PROJECT: **Upton Water Supply**

SPONSOR:	Town of Upton
LOCATION:	Weston County
PROGRAM:	New Development
APPROPRIATION:	$365,000
ACTUAL EXPENDITURES:	$328,375
DESCRIPTION:	Well and pipeline
ENGINEER:	Weston Engineering; Upton, Wyoming High Plains Engineering; Newcastle, Wyoming
CONTRACTOR:	Cyclone Drilling; Gillette, Wyoming Sundance P&H; Sundance, Wyoming
DATE COMPLETED:	1996
SESSION LAW DATE:	1991, 1992

268. PROJECT: **Vista West Water Supply**

SPONSOR:	Vista West Water and Sewer District
LOCATION:	Crook County
PROGRAM:	New Development
APPROPRIATION:	$540,000
ACTUAL EXPENDITURES:	$523,135
DESCRIPTION:	Wells, pipeline, storage
ENGINEER:	Weston Engineering, Upton, Wyoming
CONTRACTOR:	Dan Hart Patrol, Upton, Wyoming Water System Management, Gillette, Wyoming
DATE COMPLETED:	1998
SESSION LAW DATE:	1994

269. PROJECT: **Wamsutter Water Supply**

SPONSOR:	Town of Wamsutter
LOCATION:	Sweetwater County
PROGRAM:	Rehabilitation
APPROPRIATION:	$140,000
ACTUAL EXPENDITURES:	$125,353.59
DESCRIPTION:	Transmission Pipeline
ENGINEER:	PMPC, Saratoga, Wyoming
CONTRACTOR:	Jackman Construction, Inc., Green River, Wyoming
COMPLETION DATE	June 2002
SESSION LAW	2001

270. PROJECT: **Wamsutter Water Supply Rehabilitation Project**

SPONSOR:	Town of Wamsutter
LOCATION:	Sweetwater County
PROGRAM:	Rehabilitation
APPROPRIATION:	$258,500.00
ACTUAL EXPENDITURES:	$258,500.00
DESCRIPTION:	Construction of a methane stripping facility, new storage tank, transmission pipeline and connection of well to the town's elevated storage tank.
ENGINEER:	Nelson Engineering, Jackson, Wyoming
CONTRACTOR:	Edward Hawley, LLC, Torrington, Wyoming
YEAR COMPLETED:	2009
SESSION LAW YEAR:	2006

271. PROJECT: **Washakie Rural Water Supply Project**

SPONSOR:	Washakie Rural Improvement and Service District
LOCATION:	Washakie County
PROGRAM:	New Construction
APPROPRIATION:	$11,263,000.00
ACTUAL EXPENDITURES:	$9,879,590.76
DESCRIPTION:	A rural potable water system extending from the Hot Springs County line on the south to the Big Horn County line on the north and encompasses most of the private lands along both sides of the Big Horn River. The project also includes construction of the water transmission and distribution system. Potable water storage tanks and a booster pumping facility were also constructed.
ENGINEER:	BRS, Inc.; Riverton, Wyoming Engineering Associates, Cody, Wyoming
CONTRACTOR:	Brandon Construction, Powell, Wyoming Phase I and II LAMAX Construction, Basin, Wyoming Phases II, IV and V
YEAR COMPLETED:	2008
SESSION LAW YEAR:	1999, 2001, 2003, 2004, and 2006

272. PROJECT: **Westside/Rock Springs Water Supply**

SPONSOR:	City of Green River/City of Rock Springs/Sweetwater County Joint powers Water Board
LOCATION:	Sweetwater County
PROGRAM:	New Development & Rehabilitation
APPROPRIATION:	$450,000 – New Development $625,000 Rehabilitation
ACTUAL EXPENDITURES:	$450,000 – New Development $600,390.11- Rehabilitation
DESCRIPTION:	Transmission mains
ENGINEER:	Nelson Engineering Inc.; Jackson, Wyoming
CONTRACTOR:	Patrick Construction Inc.; Lander, Wyoming
YEAR COMPLETED:	2001
SESSION LAW YEAR:	1998

273. PROJECT: **Wheatland – Black Mountain Water Supply**

SPONSOR:	Town of Wheatland
LOCATION:	Platte County
PROGRAM:	New Development
APPROPRIATION:	$100,000
ACTUAL EXPENDITURES:	$99,454.82
DESCRIPTION:	Drilling Black Mountain No. 3 well
ENGINEER:	Wester-Wetstein & Associated, Inc.; Laramie, WY
CONTRACTOR:	D.C. Drilling Co.; Lusk, WY
YEAR COMPLETED	2004
SESSION LAW YEAR	2003

274. PROJECT: Wheatland Black Mountain II Water Supply Project

SPONSOR:	Town of Wheatland
LOCATION:	Platte County
PROGRAM:	New Development
APPROPRIATION:	$222,440
ACTUAL EXPENDITURES:	$222,440
DESCRIPTION:	Pump, pump house, transmission line
ENGINEER:	Wester-Wetstein & Associates, Laramie, WY
CONTRACTOR:	Edward Halley, LLC, Torrington, WY
YEAR COMPLETED:	2009
SESSION LAW YEAR:	2007

275. PROJECT Wheatland Irrigation District Laramie River Diversion Improvements

SPONSOR:	Wheatland Irrigation District
LOCATION:	Platte County
PROGRAM:	Rehabilitation
APPROPRIATION:	$456,500
ACTUAL EXPENDITURES:	$384,638
DESCRIPTION:	Headgate structure replacement, automation
ENGINEER:	Kennedy Engineering; Wheatland, Wyoming
CONTRACTOR:	Foster Construction; Riverton, Wyoming Sutron Corporation; Sterling, Virginia
DATE COMPLETED:	2002
SESSION LAW DATE:	1997

276. PROJECT: Wheatland Reservoir No. 1

SPONSOR:	Wheatland Irrigation District
LOCATION:	Platte County
PROGRAM:	Rehabilitation
APPROPRIATION:	$392,000
ACTUAL EXPENDITURES:	$80,288
DESCRIPTION:	Dam rehabilitation
ENGINEER:	States West Water Resources Corp.; Cheyenne, WY
CONTRACTOR:	Lamax Construction; Basin, Wyoming
DATE COMPLETED:	1994
SESSION LAW DATE:	1992

277. PROJECT: Wheatland Sand Lake Dam/Cañon Canal Rehab

SPONSOR:	Wheatland Irrigation District
LOCATION:	Platte County
PROGRAM:	Rehabilitation
APPROPRIATION:	$632,000
ACTUAL EXPENDITURES:	$525,448
DESCRIPTION:	Canal lining, new outlet, spillway on Sand Lake Dam
ENGINEER:	Inberg-Miller Engineers, Inc. Casper, Wyoming
CONTRACTOR:	Three Sons, LLC, Hanna, Wyoming
DATE COMPLETED:	2003
SESSION LAW DATE:	1998

278. PROJECT: **Wheatland Water Supply**

SPONSOR:	Town of Wheatland
LOCATION:	Platte County
PROGRAM:	Rehabilitation
APPROPRIATION:	$222,000
ACTUAL EXPENDITURES:	$203,915.47
DESCRIPTION:	Construction of a new well, installation of new storage facilities and piping to connect the improvements to the Town's water system.
ENGINEER:	Kennedy Engineering, Wheatland, Wyoming
CONTRACTOR:	Scott & Son, Inc., Torrington, Wyoming
YEAR COMPLETED:	2003
SESSION LAW YEAR:	2001

279. PROJECT: **Wild Rose Water Supply**

SPONSOR:	Wild Rose Service and Improvement District
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$126,000
ACTUAL EXPENDITURES:	$126,000
DESCRIPTION:	Canal, pipeline, reservoir
ENGINEER:	Centennial Engineering; Sheridan, Wyoming
CONTRACTOR:	Fletcher Construction; Sheridan, Wyoming

280. PROJECT: **Willwood Dam Rehabilitation**

SPONSOR:	Willwood Irrigation District
LOCATION:	Park County
PROGRAM:	Rehabilitation
APPROPRIATION:	$480,000
ACTUAL EXPENDITURES:	$305,111
DESCRIPTION:	Dam repairs
ENGINEER:	Engineering Associates, Cody, Wyoming
CONTRACTOR:	Cop Construction, Billings, Montana
YEAR COMPLETED:	1992
SESSION LAW YEAR:	1990

281. PROJECT: **Wright Water Supply**

SPONSOR:	Town of Wright
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$450,000
ACTUAL EXPENDITURES:	$231,591
DESCRIPTION:	Well, pipeline
ENGINEER:	J.M. Montgomery; Laramie, Wyoming
CONTRACTOR:	Larry's Inc.; Gillette, Wyoming
YEAR COMPLETED:	1989
SESSION LAW YEAR:	1987

282. PROJECT: **Wright Water Supply**

SPONSOR:	Wright Water and Sewer District
LOCATION:	Campbell County
PROGRAM:	Rehabilitation
APPROPRIATION:	$50,000
ACTUAL EXPENDITURES:	$50,000
DESCRIPTION:	Well and pipe rehabilitation
ENGINEER:	Bruce Engineering, Gillette, Wyoming
CONTRACTOR:	Weston Groundwater Engineering, Upton, Wyoming
YEAR COMPLETED:	1999
SESSION LAW YEAR:	1997

283. PROJECT: **Wright Well and Pipeline**

SPONSOR:	Wright Water & Sewer District
LOCATION:	Campbell County
PROGRAM:	New Development
APPROPRIATION:	$600,000
ACTUAL EXPENDITURES:	$330,805.05
DESCRIPTION:	Installation of well pumping equipment, control building, SCADA controls and transmission pipelines.
ENGINEER:	Stetson Engineering, Inc.
CONTRACTOR:	Hot Iron, Inc.
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2002

284. PROJECT: **Yoder Water Supply**

SPONSOR:	Town of Yoder
LOCATION:	Goshen County
PROGRAM:	New Development
APPROPRIATION:	$577,200
ACTUAL EXPENDITURES:	$433,391
DESCRIPTION:	Pump facilities and transmission pipeline
ENGINEER:	Banner Associates; Laramie, Wyoming
CONTRACTOR:	Interstate Irrigation; Yuma, Colorado
DATE COMPLETED:	1996
SESSION LAW DATE:	1990, 1991

285. PROJECT: **Yoder Water Well**

SPONSOR:	Town of Yoder
LOCATION:	Goshen County
PROGRAM:	New Development
APPROPRIATION:	$30,000
ACTUAL EXPENDITURES:	$14,722
DESCRIPTION:	Drilled a well
ENGINEER:	Wells Engineering; Lusk, Wyoming
CONTRACTOR:	Midwest Farm Service; Scottsbluff, Nebraska
DATE COMPLETED:	1987
SESSION LAW DATE:	1986