2009 LEGISLATIVE REPORT
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CHAPTER 1. WYOMING WATER DEVELOPMENT PROGRAM
GENERAL COMMENTS/OVERVIEW/
EXECUTIVE SUMMARY/SPECIFIC REQUIREMENTS OF STATUTES

I. Statewide Vision, Philosophy and Contribution of Wyoming Quality of Life

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, and trona, to 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 alternative 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 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 citizens. 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. Situation Analysis

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 2.8 million acre-feet of surface water. Therefore, approximately 1.2 million acre-feet of surface water remain 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 of the state's water, thus maintaining Wyoming's entitlements.

The Wyoming Water Development Program provides long-term economic benefits by managing our water supplies for the existing and future needs of Wyoming's citizens. 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. Program Status - Water Resource Development

In 1977, the revenue source that funds the New Development Program was established. In 1982, the Governor proposed and the legislature implemented the framework for the present Water Development Program. In 1983, the revenue stream that funds the Rehabilitation Program was 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 consideration 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. The project sponsor must be willing and capable of financially supporting at least 25% of the project development costs plus all operation and maintenance costs. Typically, 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 serves to meet a water management need, the Commission may recommend that construction funding be appropriated by the legislature.

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, and 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 at least 25% of the project development costs. The actual loan/grant mix is based on WWDC funding criteria and the sponsor's ability to pay.

3. Dam and Reservoir Program

In 2005, the Legislature authorized funding for a new program in 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. Program Status - Water Resource Planning

1. Water Investment Management

During the development of the Department of Commerce, 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; serving as the water planning and development agency for the state implies the other.

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 ninety-seven (97) 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

As the state's water resource-planning agency the WWDC identifies water related issues and establishes the framework to resolve them and promote water resources management. As an example, the WWDC develops basin-wide plans that identify water supply problems and water development opportunities. Planning studies have been completed for Northeastern Wyoming, the Big Horn River, Powder River, Tongue River, Upper Bear River, Upper Green River, Upper Laramie River and Wind River Basins. 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%.

As of July 1, 2008, 42 municipalities had received assistance from the program. 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.

6. Small Water Project Program

During the 2003 session, the legislature removed the pilot status from the statute and allowed for construction of these "small projects" throughout the state. Water Development Program funding is limited to fifty percent (50%) of the actual construction cost, or a maximum grant of twenty-five thousand dollars ($25,000) 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" anytime during the calendar year.

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 are being received and will be reviewed by the Commission in March, 2009.

C. Program Funding

1. Water Resource Development

The administrative costs of the Water Development Commission are approximately $7,000,000 per biennium. These costs are included in the agency budget, which is appropriated from Water Development Account No. 1. This amount does not include project specific budgets, which are appropriated by the legislature as described in the following paragraphs:

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 general fund appropriations of $117,600,000, 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 $29,000,000 per year. The WWDC is committed to phase or delay projects to insure its recommendations do not result in overruns of the account.

By enacting W.S. 16-1-301 the Legislature authorized the use of water development account I and II funds to meet federal matching grant requirements. The federal capitalization grant and the state's matching share will be 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. Water Development program funds are appropriated automatically by statute to match 10% of the federal capitalization grant.

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.

c. Water Development Account No.3

During their 2005 General Session, the Legislature enacted legislation that created Water 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 Legislature established a revenue stream of ½ of one percent from the Severance Tax Distribution account to fund the construction or expansion of dam and reservoir facilities.

2. Water Resource Planning

a. Instream Flow - The WWDC requests $100,000 per biennium for consultant services for completion of instream flow feasibility studies.

b. Water Related Research - Over the past ten years the budget for contract services for this work has been reduced by the WWDC from $250,000 to $25,000 per biennium.

c. Basin Wide Planning - Depending on the complexity, basin wide planning studies cost between $200,000 and $1,500,000. The operation of the Water Resources Data System and other necessary contract services costs approximately $1,000,000 per biennium.

d. Groundwater Grant Program - The Legislature appropriated $1,500,000 of additional funds during the 2002 Session to the Wyoming Water Development Commission to finance groundwater exploration studies for cities, towns, improvement and service districts and water and sewer districts. Multiple public water purveyors have utilized the program to augment their water supplies. For the 2008 Legislative Session the WWDO is requesting an additional $500,000 to augment the program.

3. 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 July 1, 2008, $202,111,076 has been expended from Water Development Accounts I and II 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.

D. Program Evolution

In order to develop a strategic plan for the program, the history and future of the Wyoming Water Development Program must first be considered. During the 1982 legislative session, funding was requested for 28 projects. Over half of the projects included new dams or rehabilitation of

existing dams. By contrast, during the 1995 legislative session, construction funding was requested for 18 different projects. None of those projects included a dam.

While dam construction and rehabilitation remains 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 fourteen 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 Dams and Reservoir project (High Savery) and the Greybull Valley Irrigation District's Roach Gulch project are the most recent projects. Due to provisions outlined in the settlement of the Nebraska v Wyoming lawsuit, the Pathfinder Modification Project is expected to replace the Deer Creek Project.

There are reasons the number of storage projects in the Water Development Program are less than originally anticipated. 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 impact of federal requirements on the program can best be demonstrated by the history of the Little Snake River Valley Dam and Reservoir Project. Originally, the WWDC sought a 404 permit for a 52,000 acre foot reservoir that would yield 12,000 acre feet per year for irrigation purposes and 20,000 acre feet per year for future industrial use. The U.S. Army Corps of Engineers denied the permit using the argument that there was no specific defined use for 20,000 acre-feet of the water. The project did not meet the federal requirements for "purpose and need." Therefore, according to personnel from the Army Corps of Engineers, the impacts to wetlands and aquatic habitat resulting from the project were not warranted, no matter how well those impacts were to be mitigated. This decision severely impacted the ability of the program to construct storage projects and market water for future uses. More recently the federal agencies have determined, based on their rules and regulations, that they can only issue permits for the "least environmentally damaging alternative." Unfortunately, the federal interpretation of "purpose and need" tends to ignore state goals and objectives such as increased recreation, hydropower production, instream flow releases, and economic development, which results in a predisposition toward the construction of small single purpose reservoirs.

The newly created Dam and Reservoir Division's scope is centered on encouraging construction of new storage facilities. By developing in-house expertise that is dedicated to construction of these dam and reservoir projects, the state will be more successful in developing their court decreed and compacted entitlements. 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.

Another descriptor of the program's history is an analysis of how water development funds have been spent over the past twenty-two years. The following is a breakdown of total program expenditures from 1980 to June 30, 2008:

	Percentage (%) of Total Expenditures		
Sector	WD Account No. 1	WD Account No. 2	WD Account No. 3
Agriculture	13	39	66
Domestic	64	54	34
Non-Project	23	7	0

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

1. While the Water Development Program has provided assistance to a number of agricultural projects, those projects have been relatively small in scope. The agricultural industry is presently concentrating on preserving what they have, rather than developing new supplies. With one exception, the Wyoming Water Development Program has not been requested to assist in a water project that would place new lands under production. 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.

2. The domestic category includes municipal and special district projects. Municipalities and other public water systems have been the major beneficiaries of the Wyoming Water Development Program. Communities 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.

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 previously 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.

3. Non-project expenditures relate to appropriations made from the water development accounts to augment the general fund. For example, the agency budgets for

the Water Development Office, State Engineer's Office, and Water Resource Data System have been appropriated from the water accounts. An appropriation was also made to supplement funding for education. The state's costs for water related litigation are also funded from the water development accounts.

In summary, the scope of the Wyoming Water Development Program has changed over the past 20 years. However, the program continues to serve the principle that initiated the program; the effective and efficient use of water entitlements is necessary to preserve Wyoming's water for Wyoming's future.

E. Program Operation

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. 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 8 to 12 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 & 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 agency 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.

III. Specific Requirements of Statutes

The Wyoming Water Development Commission is directed to prepare water and related land resource plans as provided for in Wyoming Statutes. The following are specific references to the applicable authorizations:

> W.S. 41-2-107. Water Resources plans; review; submission to commission.
> The Commission shall formulate and from time to time review and revise water and related land resources plans for the State of Wyoming and for appropriate regions and river basins. The plans shall implement the policies stated in the Wyoming constitution and in statutes pertaining to the state's water and related land resources.

W.S. 41-2-110. Use of plans; publication; recommendation and employment of plans.

(a) The commission shall:

(i) Publish the water resource plans as they are formulated and adopted and disseminate them to people, industries, and governmental departments and agencies;

(ii) Give advice and assistance, if requested, to governmental departments and agencies, furnish to them the appropriate plans, and make available related subsidiary and additional data and information, or data and information related to plans in the process of preparation;

(iii) Recommend action or legislation needed to implement and carry out the plans.

The Wyoming Water Development Commission is directed to report project specific results and findings to the legislature as provided for in Wyoming Statutes and Wyoming Session Laws. The following are specific references to the applicable authorizations:

W.S. 41-2-115. Report; authorization; assignment.

(b) The commission shall, within ninety (90) days following the public hearings, transmit its findings and recommendations to the governor and legislature pursuant to W.S. 41-2-1214(a)...

CHAPTER 2. 2009 LEGISLATIVE PROGRAM
IMPACT/CONSEQUENCES/OUTCOMES

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

1. 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. The WWDC makes preliminary recommendations regarding applications at its November meeting.

2. Existing Projects

Typically, consultant project reports are drafted by the first of October. These reports are reviewed to determine whether the projects warrant advancement in the program. At the November WWDC meeting consultant reports are presented, which include a project budget and financing plan. Project sponsors are given the opportunity to present their requests. The WWDC director also presents his recommendation. The WWDC takes preliminary action on the sponsor's request at this meeting.

3. 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 Final Design and Construction funding.

4. Coordination with the Governor

The WWDC provides the Governor with its preliminary recommendations and a financial report addressing impacts to the water development accounts. The Governor may provide input throughout the recommendation process.

5. Final Recommendations

The WWDC meets in December or early January to finalize its legislative recommendations on new applications and existing projects. The Commission considers public input received at the meetings and hearings and recommendations from the Governor. Sponsors and interested parties who disagree with the Commission's preliminary recommendation are provided the opportunity to address the Commission with their concerns.

6. Select Water Committee

The Select Water Committee is comprised of 6 senators and 6 representatives. They provide legislative oversight for the program, and review the Commission's recommendations and budgets. Typically, the Select Water Committee serves as sponsors for the Water Development Program legislation.

7. 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.

PRELIMINARY
12/30/2009

Fiscal Projections
Water Development Account No. 1
January 2008 CREG
Report

Total Revenues			
	General Fund	117,600,000	
	Budget Reserve	70,000,000	
	Taxes	497,946,597	
	Interest	183,600,690	
	UST Repayment	2,500,000	
	Coal Bonus	4,840,305	
	Loans/Interest	67,095,914	
	Other	1,183,475	
	LSO Adjustment	(446,557)	
Total Revenues			944,320,424
Total Expenditures	Transfer to Account III	54,070,000	
	Program Expenditures	773,850,541	
Total Expenditures			827,920,541
Cash Balance (6/30/08)			116,399,883
Outstanding Commitments (7/1/08)			
	Active Appropriations	220,855,410	
	Paid	96,721,825	
Total Commitments (7/1/08)			124,133,585
Uncommitted Balance (7/1/08)			(7,733,702)
FY09 - Anticipated Revenues			
	Taxes	19,300,000	
	Interest	4,000,000	
	Other	4,000,000	
Total - FY09 Revenues			27,300,000
FY10 - Anticipated Revenues			
	Taxes	19,300,000	
	Interest	4,000,000	
	Other	4,000,000	
Total - FY10 Revenues			27,300,000
Subtotal Revenues			54,600,000
	BALANCE		46,866,298
	2009 Omnibus Water Construction Bill		36,792,321
	2009 Omnibus Water Planning Bill		6,085,000
	BALANCE AVAILABLE		3,988,977

PRELIMINARY
12/30/2009

Fiscal Projections
Water Development Account No. 2
January 2008 CREG Report

Total Revenues			
	Taxes	124,309,968	
	Interest	39,350,713	
	Federal Mineral Royalty	5,000,000	
	Budget Reserve	12,000,000	
	Loans/Interest	29,912,361	
	Other	185,032	
Total Revenues			210,758,074
Total Expenditures			167,574,114
Cash Balance (6/30/08)			43,183,960
Outstanding Commitments (7/1/08)	Active Appropriations	52,602,082	
	Paid	14,331,828	
Total Commitments (7/1/08)			38,270,254
Uncommitted Balance (7/1/08)			4,913,706
FY09 - Anticipated Revenues	Taxes	3,300,000	
	Interest	1,100,000	
	Other	1,700,000	
Total - FY09 Revenues			6,100,000
FY10 - Anticipated Revenues	Taxes	3,300,000	
	Interest	1,100,000	
	Other	1,700,000	
Total - FY10 Revenues			6,100,000
Subtotal Revenues			12,200,000
	BALANCE		17,113,706
	2009 Omnibus Water Construction Bill		14,083,420
	2009 Omnibus Water Planning Bill		550,000
	BALANCE AVAILABLE		2,480,286

PRELIMINARY
12/30/2009

Fiscal Projections
Water Development Account No. 3
January 2008 CREG Report

Total Revenues			
	Budget Reserve	82,543,656	
	Transfer from Water Account I	54,070,000	
	Taxes	2,325,473	
	Interest	11,192,315	
Total Revenues			150,131,444
Total Expenditures			1,955,808
Cash Balance (6/30/08)			148,175,636
Outstanding Commitments (7/1/08)			
	Active Appropriations	11,786,000	
	Paid	1,346,531	
Total Commitments (7/1/08)			10,439,469
Uncommitted Balance (7/1/08)			137,736,167
FY09 - Anticipated Revenues			
	Taxes	800,000	
	Interest	2,200,000	
Total - FY09 Revenues			3,000,000
FY10 - Anticipated Revenues			
	Taxes	800,000	
	Interest	2,200,000	
Total - FY10 Revenues			3,000,000
Subtotal Revenues			6,000,000
	BALANCE		143,736,167
	2009 Omnibus Water Planning Bill		1,775,000
	BALANCE AVAILABLE		141,961,167

Wyoming Water Development Program
2009 Omnibus Water Bill-Planning

Level I Projects-New Development	WDA I	WDA II	WDA III
Statewide Water Research	300,000		
Burns Water Supply	85,000		
Douglas Master Plan	200,000		
Glenrock Master Plan	150,000		
Green River DSS Feasibility Study	250,000		
Kirby Creek Watershed Study	150,000		
Lance Creek Water Supply	100,000		
Platte River Basin Plan	250,000		
Powell Airport Water Supply	50,000		
Sweetwater Water Supply	100,000		
Wheatland Master Plan	150,000		
Total-Section 1	**1,785,000**		

Level II Projects-New Development	WDA I	WDA II	WDA III
Arapahoe Water Supply	500,000		
Big Horn Regional Groundwater	850,000		
Cheyenne Belvoir Ranch Groundwater	2,000,000		
GR-RS-SC JPB Water Supplies	350,000		
Laramie Water Management Study	100,000		
Poison Spider Pipelines	100,000		
Yoder Groundwater	400,000		
Total Section 2	**4,300,000**		

Level I Projects-Storage	WDA I	WDA II	WDA III
Big Sandy Enlargement			100,000
Clear Creek Watershed Study			300,000
Total Section 3			**400,000**

Level II Projects-Storage	WDA I	WDA II	WDA III
Middle Piney Reservoir			500,000
Sheridan Supplement Storage			350,000
Sublette Creek Reservoir			375,000
Viva Naughton Enlargement			150,000
Total Section 4			**1,375,000**

Level II Projects-Rehabilitation	WDA I	WDA II	WDA III
Pioneer Rehabilitation		75,000	
Total Section 6		**75,000**	

Level I Projects-Rehabilitation	WDA I	WDA II	WDA III
Austin and Wall Rehabilitation		110,000	
Red Lane Master Plan		65,000	
Wheatland ID Master Plan		300,000	
Total Section 5		**475,000**	

2009 Omnibus Water Bill-Planning	6,085,000	550,000	1,775,000

Wyoming Water Development Program
2009 Omnibus Water Bill-Construction

Level III Projects-New Development	WDA I	WDA II	Terms
Transfer of Water			
Basin Storage Tank	1,634,000		67/33/4/30
Casper Paradise Valley Pipeline	1,139,000		67% Grant
Dubois Water Supply	2,130,000		67/33/4/30
Hudson Water Supply	1,520,000		67/33/4/30
Laramie County Archer Supply	201,000		67% Grant
Mile-Hi Water Supply	1,015,360		67/16.5/4/30
Pine Bluffs Deep Well 2009	583,570		67% Grant
Pinedale Pipelines-Phase I	7,900,000		67/33/4/30
Rawlins Reservoir and Pipeline-Phase I	1,350,000		67/33/4/30
Riverton Water Supply	4,958,800		67/10/4/20
Shoshone Municipal Pipeline 2009	2,428,800		33% Grant
Star Valley Ranch Water Supply	2,620,000		67/33/4/30
Teton Village Water Supply	2,447,500		25/25/4/30
Upton Well	395,000		67/33/4/30
Wamsutter Well	542,700		67% Grant
Total-New Development	**30,865,730**		

Level III Projects-Rehabilitation	WDA I	WDA II	Terms
Big Horn Canal Rehabilitation 2009		945,000	67/33/4/30
Casper Alcova Rehabilitation 2009		184,920	67% Grant
Deaver Rehabilitation 2009		673,000	Mat'l only
Eden Valley Rehabilitation 2009		6,580,000	50% Grant
Goshen Rehabilitation 2009		1,200,000	Mat'l only
GVID Upper Sunshine Diversion-Phase I		300,000	67/33/4/30
Lovell Rehabilitation 2009		432,000	Mat'l only
Riverton Valley Rehabilitation 2009		79,000	Mat'l only
Shoshone Rehabilitation 2009		339,000	Mat'l only
Willwood Rehabilitation 2009		284,000	Mat'l only
Total-Rehabilitation		**11,016,920**	

Level III Projects-Existing Projects	WDA I	WDA II	Terms
Washakie Rural Water Supply	-1,383,409		
Riverton Raw Water Supply Rehabilitation		-1,086,500	
LeClair Laterals Rehabilitation		0	Mat'l only
Gillette Madison Pipeline Joint Bonding		2,177,500	67% Grant
Green River Supply Canal Rehabilitation		150,000	67/33/4/20
Lake DeSmet Rehabilitation		1,265,000	67/33/4/20
Worland Eastside Transmission Line		842,500	50% Grant
Pathfinder Modification Project		0	
Sundance Well Project	90,000		67/33/4/20
Glendo Well	190,000		67/12.6/4/30
Midvale Canal Rehabilitation		-172,000	Mat'l only
Glenrock Well	180,000		67/33/4/30
Laramie Transmission Pipeline	6,850,000		67/33/4/30
Sidon Rehabilitation		-110,000	Mat'l only
Total-Existing Projects	**5,926,591**	**3,066,500**	

2009 Omnibus Water Bill-Construction	**36,792,321**	**14,083,420**	

CHAPTER 3. ACTIVE PROJECT REPORTS

A typical water development project proceeds through the following development levels. The following descriptions are based on complex projects. All of these tasks may not be completed for all projects depending on their specific characteristics and complexity. The services are tailored for each specific project in order to obtain the needed information on that project and to ensure funds are not expended for information that is not relevant to that project.

1. Level I, Reconnaissance Studies

   These studies are preliminary analyses and include a comparison of alternatives.

   The typical Level I study should identify or provide the following:

   a. Identify development options.
   b. Identify potential beneficiaries and benefits of each option.
   c. Describe factors that could impair or prohibit the development of any option, including legal and environmental constraints.
   d. Analyze water rights, including identification of conflicting prior rights.
   e. Compare options based on physical and legal water availability, technical, economic, legal, and environmental considerations.

   Master plans, river basin plans, water research projects are also completed under the heading of Level I, Reconnaissance Studies.

2. Level II, Feasibility Studies

   The typical Level II study consists of two phases. During Phase 1 project feasibility is addressed. If the project is determined feasible the proposal is advanced to Phase 2, where it is refined to the status necessary for a Level III funding request.

   The typical Level II, Phase I investigations should include the following activities:

   a. A qualification of the amount of water that can physically and legally be developed.
   b. A determination of the water needs that could be served by the project.
   c. A determination of the technical feasibility including a safety analysis.
   d. The development of a general configuration depicting preliminary physical characteristics of the project.
   e. The development of a preliminary project operation plan.
   f. An estimation of costs for construction, consultant services, and operation and maintenance.
   g. An identification of direct benefits that could result from project implementation.
   h. An identification of costs and benefits that would result by incorporating recreation, fish and wildlife, hydropower, and flood control functions into the project.
   i A definition of economic, legal, environmental, and administrative problems and the identification of alternate solutions to those problems.
   j. The development of an ownership map of lands that may be affected by the project.

k. The collection of data to identify environmental impacts and potential mitigation and enhancement opportunities.
l. The inclusion of an analysis of the project sponsor's ability to pay.

After the above information has been provided and reviewed, the technical, economic, and legal feasibility will be considered by the Commission. This consideration, coupled with the sponsor's need for the project, interest in the project, and willingness and ability to financially participate, will be the factor used to determine if the project should proceed to Level II, Phase II.

The typical Level II, Phase II investigations should include the following activities:

a. Technical design which includes:

i. Hydrologic investigations,
ii. An operating plan which addresses water management during and after construction, and
iii. A conceptual design of the general project configuration.

b. The identification of state and federal permits and clearances necessary to construct the project.

c. Performance of an environmental analysis of the proposed operation and configuration. On the more complex projects the Wyoming Game and Fish Department assists the WWDC in these analyses. The WWDC contracts with the Game and Fish Department on an as needed basis to provide environmental baseline data, evaluate project impacts, and recommend mitigation measures.

d. Performance of a cultural resource survey of the general project area, as applicable.

e. Determination of lands that must be acquired to implement the project. Including applications to purchase or obtain easements on public lands, and appraisals of lands that must be acquired.

f. The development of a detailed schedule of the activities necessary to complete the project.

g. Preparation of an itemized project budget, including costs for design engineering, permitting, land acquisition, environmental mitigation, construction, construction engineering, operation, maintenance and replacement.

h. Performance of an economic analysis comparing the allocated costs with project primary and secondary benefits. For the more complex projects an analysis of indirect benefits may be appropriate.

3. Level III, Final Design and Construction

The typical Level III project includes the following:

a. Preparation of the project agreement, note and mortgage that formalizes sponsor and WWDC project responsibilities and which defines the financing plan/procedures. Funds are not available for expenditure until these documents are executed.

b. Securing consultant services required for final design, permitting, and construction inspection.

c. The preparation of permit applications.

d. The preparation of Environmental Impact Statements or Assessments. Typically, the 404 permit application will trigger this activity.

e. Preparation of the construction documents including technical specifications, contract documents and bidding plans. This work may be performed concurrently with the permitting process if it is determined that the project feasibility will not be impacted by permit conditions. If there are particularly sensitive permitting issues, this task should be postponed until those issues are successfully resolved.

f. The acquisition of options on or title to the necessary project lands and easements. The scheduling of this task should be sequenced to minimize impacts to property owners and as dictated by the permitting process.

g. The compilation of mitigation measures to address impacts on environmental and cultural resources.

h. Preparation of the advertisement for bids.

i. Construction review and monitoring services.

j. The determination of the date the sponsor accrues project benefits in order to establish loan repayment schedules.

k. The initiation of project acceptance and completion procedures.

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	2008
Level III	75	2008	II	$20,100*	2011

* Sponsor's Inflation Fund

PROJECT INFORMATION:

In 2001, the Town of Albin applied for a project with the name of Albin Well and Main Rehab. Albin would like 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. This project would provide a water system master plan to the town, with a replacement well, and plans/cost analysis for upgraded transmission mains and storage. The project was approved in 2002 with the name of Albin Water Supply Rehabilitation and the Level II study was underway.

The Level II Test Well and Master Plan Study 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 the Station Well and the Albin No. 1 Well, 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. WWDC funding for rehabilitation work on the Station Well will be contingent on acquisition of the well from Union Pacific Railroad. The estimated Level III project cost was $430,000, and a 50% grant was requested.

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 in not sufficient to construct the project due to increases of materials, fuel and labor costs over the past year.

In 2008, the Town of Albin received a grant for $20,100 and the project reversion date was extended to 2011. The project is currently being designed and is anticipated to be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

02. **PROJECT:** **Alpine Master Plan Update, Phase II**
LEVEL: II
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 II	33	2008	I	$ 85,000	2010

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 is currently conducting a study in Alpine to determine the best way to serve the increasing population. Alpine's wells were tested and deemed the best groundwater source in the area. In order to capitalize on this, Alpine requested a second phase to the current study and that the WWDC drill a test well in the area of their existing two wells.

A third well for Alpine was completed. The new well is expected to produce approximately 500-600 gallons per minute. The project study is nearing completion and a draft report is expected in early 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

03. **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 III	88	2002	I	$ 41,700	2006 (withdrawn)
Level II	75	2005	I	$ 75,000	2006
Level II	99	2006	I	$185,000	2008
Level III	121	2007	I	$688,090	2012

PROJECT INFORMATION:
The Master Plan study prepared for the Town of Alpine by Rendezvous Engineering of Jackson has 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 2008. The Town has reaffirmed the desire to complete the project and has commenced on the processes of obtaining the matching funds as well as completing an environmental assessment of the effects of the proposed project. It is anticipated that construction will start in the fall of 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

04. **PROJECT:** **Alpine Well Upgrade**
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 III	88	2002	I	$41,700	2006 (withdrawn)
Level II	75	2005	I	$75,000	2006
Level III	105	2006	II	$359,790	2010

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 at least a 50% increase in production. To accomplish this, Alpine requested and received a 2006 a grant which will be coupled with a Drinking Water State Revolving Loan Fund loan to install higher capacity pumps with variable frequency drives, upgrade the existing wells, as well as install an emergency power generator for the pumps.

Replacement of the pumps did not occur in 2006, 2007, or 2008 but are scheduled to be replaced during the early part of 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

05. **PROJECT:** **Alta Water Supply**
LEVEL: III
SPONSOR: Targhee Town Water District
LOCATION: Teton
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	7	2002	II	$50,000	2004
Level II	125	2003	II	$166,000	2004
Level II	34	2004	II	$65,000	2006
Level III	147	2005	I	$366,000	2009

PROJECT INFORMATION:

The Targhee Towne Water District is located at Alta, Wyoming, along Teton Creek as it exits Wyoming and flows into Idaho. The 2002 WWDC Level I Study for the District recommended an additional water supply source be added to provide reliability and redundancy to the system. Level II test well drilling began in early November 2004. Yield results from this effort were not brought to conclusion due to inadequate funding. Supplemental Level II funds became available late in 2006 and the evaluation is completed with the Level II study being closed. Two wells were successfully completed and will provide a very adequate water supply for the District residents.

Construction of the majority of the project to connect the new wells into a new transmission system took place in the fall of 2007. Completion of the remaining work on the well control structures was completed in the fall of 2008.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

06. PROJECT: Arapahoe Water Supply

LEVEL: I
SPONSOR: Northern Arapaho Tribal 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

PROJECT INFORMATION:

The Native American 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 (trib. Wind River). The water supply system is operated by the Northern Arapaho Utilities Organization. Currently the WWDC is conducting another Level II water supply feasibility study for the Northern Arapaho Tribe at Ethete, 17 miles west of Arapahoe.

The Arapahoe Master Plan was completed in 2009. The current water supply utility at Arapahoe has full spectrum 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. Comprehensive planning is required to address present dysfunction and future system growth in terms of system-wide capacity and operation efficiency.

The near-term critical need is the siting and development of a new well. As part of the well siting, it is necessary to conduct a master planning effort to determine where additional supply could best be located to meet the needs of the entire system. The final plan needs to include 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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be progressed in the New Development Program to Level II status with an appropriation increase of $500,000.

07. PROJECT: Austin and Wall Rehabilitation

LEVEL: New Application
SPONSOR: Unita County Conservation District and Austin & Wall Canal Companies
LOCATION: Unita County
PROGRAM: Rehabilitation, Water Account II

PROJECT INFORMATION:
The Unita County Conservation District, Austin Reservoir and Canal Company, and the Wall Development Company are requesting a Level I study of the Austin Reservoir and canal system and the Wall Canal System. The two canal systems currently are realizing water losses within the canals. The dam is leaking and the outlet structure is in need of replacement. The companies are requesting a Level I reconnaissance study for the rehabilitation of the existing Austin canal (10 miles long) and Wall canal (16 miles long) systems and rehabilitation of the existing Wall storage reservoir (870 AF).

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the Rehabilitation Program as a Level I study with an appropriation of $110,000.

08. PROJECT: Baggs Water Supply

LEVEL: III
SPONSOR: Town of Baggs
LOCATION: Carbon County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	36	2000	I	$50,000	2002
Level III	2	2001	II	$92,000	2005
Level I	7	2002	I	$40,000	2004
Level III	125	2003	II	$28,000	2005
Level II	34	2004	II	$50,000	2006
Level III	114	2005	I	$331,500	2009

* 50% grant

PROJECT INFORMATION
The residents of the Town of Baggs utilize treated water from a Little Snake River intake diversion. High turbidity counts (NTU'S) during spring runoff have plagued the town in the form of drinking water standard exceedance. Because of the water quality violation, the town applied to explore groundwater options.

The 2000 Level II study of the existing water supply and treatment system was completed as a continuance of the WWDC Groundwater Grant study awarded the town in 1999. The purpose of the study was to investigate alternative diversion systems, utilizing results of 1999 test well

drilling, and prepares conceptual designs, cost estimates, economic analysis, and project financing guidelines for funding opportunities.

The 2002 Level I Master Plan was a continuation of water projects currently underway. The projects were funded by the WWDC and the USDA Rural Utility Service. The project will replace the Town's infiltration gallery and upgrade the water treatment plant.

The 2002 Master Plan included mapping, provided an evaluation of the water supply and distribution system, and developed a maintenance and replacement schedule for the water mains. The plan recommended increasing the size of the mains and adding 100,000 gallons of storage to meet fire suppression needs. If the town's system is to be expanded beyond the city limits, a regional system that extends to Dixon should be examined. There is no direct line from the water treatment plant to the storage tank. A direct line to the tank would fill the tank quicker and improve water pressures throughout the system. The water system losses observed in 2000 seem to be due to un-metered taps on the system. A program should be undertaken to eliminate the un-metered taps.

Plans and specifications for the Level III construction project were prepared during 2002. The project was let for bids in August 2002. However, only one bid was received, and it exceeded the engineer's cost estimate by approximately $56,900.00. The Sponsor and its Engineer recommended the bid be accepted. Due to the extreme drought conditions, it was imperative that this project be completed as soon as possible. The construction continued using local funds to make up the shortfall. However, this created a burden on the Town. In 2003, the WWDC approved an additional $28,000 grant to cover approximately 50% of the cost overrun in the Level III project increasing it from $92,000 to $120,000. The Level III portion of this project was completed in 2004.

In 2004, the Baggs Water & Raw Water Supply Level II study looked at and made recommendations to add a raw water system and a dedicated transmission main to the storage tank, replace undersized aging distribution lines, increase their storage capacity and reviewed a regional water system from Savery down to Baggs. It was found that the regional system did not have regional support and would not be pursued at this time; however, the Town decided to pursue funding for the dedicated transmission line and the raw water system at this time.

The 2005 Legislature approved a fifty (50%) grant only for construction of the dedicated transmission line and raw water system. Owing to significant increases in pipe material costs in 2005, the Town has decided to concentrate on the construction of the dedicated transmission pipeline and will pursue construction of the raw water system only if remaining funds are available. Completion of the design was in early 2007 and the project was bid in June 2007. The Town decided to reject all bids due to a conflict with the construction funding for the water treatment plant. The project was bid again in July 2008 and was awarded. The contractor is currently working on the project and should be complete by the summer of 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

09. PROJECT: **Basin Storage Tank**
LEVEL: New Application
SPONSOR: Town of Basin
LOCATION: Big Horn County
PROGRAM: New Development

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 250,000 gallons. They are both concrete. The smaller tank has a conical metal roof and the larger one has a concrete roof supported by columns. The town has observed evidence of increasing 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 then is not feasible. The town is proposing to replace the existing tanks with a new 1,000,000 gallon tank at the same location.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the New Development Account at Level III status with an appropriation of $1,634,000. The financing plan includes a 67% grant and a 33% loan with an interest rate of 4% and a term of 30 years.

10. 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

PROJECT INFORMATION:
The Town of Bear River, the City of Evanston, water districts and private users in that vicinity formed a Joint Powers Board and applied for funding of 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 during 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 with completion of the project and the delivery of water to the system anticipated by the end of 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

11. 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	2008
Level III	121	2007 `	I	$335,000	2012

**The Bedford study was included in a regional study which incorporated the Town of Thayne, Bedford Water & Sewer District, and the Willow Creek Pipeline Company (now known as the Turnerville Water & Sewer District)

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 as demand increased. The system has seen increases in demand and recent problems with one of the springs have resulted in taking it out of service. The increased storage capacity is now needed to meet peak demands within the system and allow the well and spring to operate at a regulated level.

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

In 2008 the district completed environmental work in Strawberry Canyon to allow the District to apply for a permit from the Forest Service and an application to obtain loan funding from the Drinking Water State Revolving Fund Program. It is anticipated that well upgrades will be completed early in 2009 with storage tank construction completed by the end of 2009.

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

12. 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

*Level II report has resulted in this project and the Big Horn Canal Rehabilitation 2009 Project

PROJECT INFORMATION:
The Big Horn Canal District's main canal is over 60 miles long and extends from south of Worland to Greybull. 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 and the District would like it evaluated for structural integrity. There are several other areas of concern along the canal length to be evaluated as well as several structures that have been identified as needing evaluation for structural integrity. The District would also like to determine the cost and feasibility of installing measuring devices at farm turnouts.

This 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 sponsor has begun their long range plan to address these issues.

The existing concrete liner was severely degraded and the concern of a failure in that segment was high. Over 23,000 acres are irrigated downstream of this segment and a canal failure would be catastrophic to the irrigators. The District's main canal is over 60 miles long and extends from south of Worland to Greybull. The Big Horn Canal Irrigation District received Level III funding for the replacement of an existing concrete canal liner in 2008. Design will be completed in early winter of 2008 and the construction of the liner should be complete by spring 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

13. PROJECT: Big Horn Canal Rehabilitation 2009

LEVEL: New Application
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 II report has resulted in this project and the Big Horn Canal Lining Project

PROJECT INFORMATION:
The Big Horn Canal District's main canal is over 60 miles long and extends from south of Worland to Greybull. 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 and the District wanted to have it evaluated for structural integrity. There are several other areas of concern along the canal length to be evaluated as well as several structures that have been identified as needing evaluation for structural integrity. The District also determined the cost and feasibility of installing measuring devices at farm turnouts.

This 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 sponsor has begun their long range plan to address these issues.

The Big Horn Canal Irrigation District is seeking funding to rehabilitate the Big Horn Canal headgate. This structure has been identified as needing replacement in the 2007 Big Horn Canal Rehabilitation Study. The study indicates that the structure is in poor condition. The district is having problems regulating the flow into the canal due to the gates not functioning correctly.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the Rehabilitation Program to Level III status with an appropriation of $945,000. The recommended financing plan calls for a 67% grant and 33% loan with an interest of 4% and a term of 30 years.

14. PROJECT: Big Horn Regional Groundwater

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	36	2000	I	$160,000	2002
Level II	86	2001	I	$670,000	2002
Level II	7	2002	I	$675,000	2004
Level II	75	2005	I	$1,500,000	2009

See also Big Horn Region Joint Powers Board Pipeline

PROJECT DESCRIPTION:

The Big Horn Regional Joint Powers Board [BHRJPB] depends on a ground water sourced system fed 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. If the Worland wells failed and created more than just a short-term interruption in service, then thousands of users would suffer the consequences. On behalf of BHRJPB, the WWDC has continued an investigation of groundwater potential for public drinking water source supply in the eastern and southern Big Horn Basin. Sites were investigated within the Basin that could potentially yield abundant (>500gpm), good quality (<500 mg/l TDS) water. An extensive review of groundwater data within the Big Horn Basin reveals that the most likely aquifer to yield abundant, good quality water is still from 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. Subsequent pump testing revealed good potential for a high yielding well. Further testing of the Buffalo Creek No. 2 Well was conducted in 2006 with a 27-day pump test to confirm sustained yield. The pump testing phase included monitoring of nearby wells, springs, and the thermal springs at Hot Springs State Park. The long-term test confirmed 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.

With demonstrable yields known from sub-regions and individual wells within the study area (e.g., Paintrock anticline, Hyattville area irrigation wells, Renner wells, Tensleep area wells, Shell valley wells, etc.), the potential for developing the Paleozoic-age Madison-Bighorn Fm. aquifers for BHRJPB needs remains good to excellent. With confidence in this knowledge, the BHRJPB is requesting further WWDC funding towards a ground water exploration drilling and testing program aimed at discovering a sustaining Madison aquifer source that assures a source supply safety factor to the system.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends the project remain at Level II status in the New Development Program with an addition appropriation of $850,000.

15. **PROJECT:** **Big Horn Regional Joint Powers Board Pipeline**
LEVEL: II/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*	2007
Level II	7	2002	I	$675,000	2004
Level III	118	2004	I	$13,628,500*	2010
Level III	121	2007	I	$7,222,600**	2012

*The grant has been raised from 50% to 67% **67% Grant

PROJECT INFORMATION: In December, 1996, the City of Worland's transmission Pipeline ruptured in a remote location, leaving Worland without potable water. Because of the remoteness of the rupture, this crisis lasted for about 10 days. This crisis 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 continued regional Level II study includes exploration into the feasibility of expanding joint powers service area in Big Horn County and with a conceptual look at routing pipelines south into Hot Springs County. Other potential rural users who have shown interest in regional supply are Greybull River users SW of Greybull and users west of Basin to the area centered at Otto. The town of Burlington may also benefit from regional supply. At the present time the study is focused upon the continued pursuit of exploration for source supply ground water to feed the system.

This Level III request is for funding to complete the northern portion of the Big Horn Regional Water Supply Project. The Big Horn Regional Joint Powers Board (BHRJPB) retained HKM, Inc. and Engineering Associates, consulting engineers, to design this northern system. As a first task in this process, HKM was asked to prepare a design report for the project. Early in the preliminary study of the project it became clear that the scope needed to be expanded to develop a hydraulic model of the BHRJPB'S northern service area. This area includes the City of Worland, Washakie Rural Improvement and Service District, South Big Horn County Water Supply JPB, Town of Basin, and Town of Greybull. HKM and Engineering Associates (Washakie Rural's

consultant) worked very closely with the SPONSOR and the funding agencies to develop a comprehensive hydraulic model and system configuration.

In an effort to reduce the overall costs to the BHRJPB and Washakie Rural I. & S. District, in those areas where there would have been duplication in pipeline routing, portions of Washakie Rural's system were upsized and reconfigured to carry regional water to its member agencies. This resulted in an estimated saving of about $2,000,000, with savings shared by both sponsors.

Delivery of the Town of Greybull's allocated emergency water supply was expected to be transmitted through the South Big Horn Water Supply JPB'S existing system. However, based on the hydraulic modeling, it was determined that this system could only serve in a limited capacity. Several alternatives to improve the existing system were considered. However, the engineering team determined that a new pipeline from a point on the Regional's main transmission system east of the Town of Manderson to the Town of Greybull was the most cost effective solution.

Elements 1, 2, 3, 5B, 6, 7B, and 9 are the pipeline segments that comprise the northern system. Element 7B, 5B, 1, and 3 have been constructed. Elements 2, 6 &9 are under construction with completion anticipated in 2009.

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 reveals that sufficient funding is currently in place to fund the proposed project.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

16. PROJECT: Big Piney Water Supply

LEVEL: III
SPONSOR: Town of Big Piney, Incorporated Municipality
LOCATION: Sublette County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	10	1994	I	$200,000	1996
Level III	206	1995	I	$410,000	1999
Level III	59	1996	I	$590,000	1999
Level III	69	2003	II	$475,000	2008
Level III	147	2005	II	$ 37,500	2008

PROJECT INFORMATION:
The 1994 WWDC Level II Study for Big Piney/Marbleton recommended upgrades for Big Piney to increase system reliability, improve public health and safety, provide emergency and fire suppression water, and increase overall system operating efficiency. The proposed improvements included a new 200,000 gallon elevated storage tank, updated well system controls, conversion to liquid chlorination, a new supply well, and a transmission line connecting the Big Piney and Marbleton water supply systems.

The project proceeded in two phases. The first phase was to install the pipeline connecting Big Piney and Marbleton. The second phase, including the storage tank, was designed, bid, modified and re-bid due to substantial increases in steel prices. In 2008, a new supply well, pump house and meter building were completed. This work completes the upgrades which were identified in the 1994 Level II Study.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

17. PROJECT: Big Sandy Enlargement

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

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 preliminary analysis of enlarging Big Sandy Dam and Reservoir would be the focus of the pre-Level I study. If a preliminary analysis of the hydrologic record by the Wyoming Water Development Office is deemed to potentially support an enlargement, the state would contract with Reclamation to refine estimates of water availability to further analyze the potential for enlarging the reservoir.

Before undertaking an enlargement of their facilities, Reclamation would also require a dam safety analysis and an analysis of the design flood (PMF) versus the emergency spillway capacity. The expense associated with this could also be provided via the referenced technical assistance contract. However, dam safety and emergency spillway analyses would only proceed if the hydrological analysis determines there is sufficient water available to support an enlargement.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the project be incorporated into the Dam and Reservoir Program with an appropriation of $100,000 from Water Account III.

18. PROJECT: Bridger Valley Reservoir Study

LEVEL: II
SPONSOR: Bridger Valley Joint Powers Board
LOCATION: Uinta County
PROGRAM: New Development, Water Account I

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	125	2003	I	$125,000	2004
Level II, P II	75	2005	I	$100,000	2006
Level II, P II	85	2007	I	$100,000	2008

PROJECT INFORMATION:
A Level II study was authorized by the 2003 Legislature to conduct a feasibility study for a water storage reservoir. The BVJPB owns and operates the water treatment facility that provides treated water for the Town of Lyman, Town of Mountain View, Blacks Fork Water and Sewer District and much of rural Uinta County in the Bridger Valley. The BVJPB has water rights from the Smiths Fork and Blacks Fork Rivers. They also have 1,500 acre feet (AF) of water storage in the Stateline Dam. Their contract with the Bureau of Reclamation requires predetermined volumes of water be released from Stateline Dam each month. This means that about 700 AF are released in the winter when water demands are low and when natural stream flow can typically meet the needs. There is also an instream flow requirement, which is met in part by the winter releases. The BVJPB wants to develop a water storage reservoir to store releases from the Stateline Dam in times of adequate stream flow to allow use of the stored water in summer and fall periods when flows are low and demand is high.

The study was completed in July 2004. The study looked at several alternatives to provide the BVJPB access to their stored water in Stateline Dam during drought situations. There were five new dam sites and three reservoir enlargements reviewed plus other alternatives. The best alternatives were to construct dams on Willow Creek or Jack Hollow. The Jack Hollow site was the most suitable and had the least environmental impacts. However, the cost of constructing a dam was higher then expected by the BVJPB. Potential for developing a multiple use reservoir is being evaluated, as are other innovative alternatives.

A Level II, Phase II study was completed in 2006. The study evaluated the Jack Hollow site and other potential alternatives in more detail. Initial results from this study indicate high construction costs, water quality issues, and operation and maintenance concerns are associated with the Jack Hollow storage site. In addition, this study identified two alternative storage sites that need further evaluation to determine their potential as feasible and cost effective alternatives to the Jack Hollow site. In August, 2006, the project sponsors requested the WWDC to complete initial designs and finalize construction costs of all potential storage sites. The study was completed this year and the sponsor indicated by letter dated September 18, 2008 to the WWDC that they are not currently interested in pursuing a Level III project.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

19. PROJECT: Buffalo, Sheridan Area Water Supply System, and Lake DeSmet Regional Master Plan

LEVEL: I
SPONSOR: Town of Buffalo, SAWSS-JPB, LDCC-JPB
LOCATION: Johnson County and Sheridan County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

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

PROJECT INFORMATION:
The Town of Buffalo, Sheridan Area Water Supply System Joint Powers Board (SAWSS), and the Lake DeSmet Counties Coalition Joint Powers Board (LDCC) are all interested in gathering information on regional water systems, future water demands, and potential water supplies. Additionally, each entity has specific issues they would like addressed in the study.

They all are in support of a broad regional study to provide information for each of the entities. The study will help define the links and differences between the entities.

Buffalo requested an evaluation of the need to supply water to areas surrounding the town and the potential water supply sources. SAWSS wanted their existing boundary area evaluated, their existing and future water distribution system requirements reviewed, and have the need for evaluation of additional raw water storage. LDCC wanted to have the feasibility of acquiring Lake DeSmet Energy Company rights and facilities assessed, and to have the water quality of the lake analyzed for future reference

This project was completed in mid 2008. Each of these requests was fulfilled. A complete water quality analysis of Lake DeSmet was completed, as was a water rights model for Lake DeSmet. A complete inventory and analysis of the entire SAWSS system was conducted with recommendations made for improvements.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

20. **PROJECT:** **Burns Water Supply**
LEVEL: New Application
SPONSOR: Town of Burns, Incorporated Municipality
LOCATION: Laramie County
PROGRAM: New Development

PROJECT INFORMATION:
The project is located in and around the Town of Burns approximately 25 miles east of Cheyenne in Laramie County. The Town depends solely on ground water supplied from shallow wells completed in various geologic formations. The Town currently only has one reliable well which produces approximately 200 gpm. Their second well has high nitrates, the third well only produces 36 gpm and the last well only produces 25 gpm. The Town's only storage tower has to be taken out of service for repairs and maintenance leaving the Town with out storage. The Town's bulk sales facility is a metered hydrant. A new facility would help prevent possible contamination of the water supply.

The Town has requested assistance with two additional wells, storage, and transmission lines to support the growth of the town, including a new school to be completed in 2010. The Town is in the process of installing meters on the system; and has qualified for County Capital Facilities Tax funding to help with their water system. The proposed master plan will determine the logistics of upgrading their well supply system and storage needs.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends a Level I Master Plan be completed under the New Development Program with an appropriation of $85,000.

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	69	2003	II	$912,000*	2008
Level III	118	2004	II	$752,000*	2008
Level III	75	2008	II	$1,561,000**	2013

*50% grant, 30% loan (6%, 30 years)

**$1,126,000, 100% grant for materials, $435,000, 100% loan for engineering (4%, 30 years), this appropriation replaces earlier Level III appropriations, resulting in a reversion of $103,000 to the water development account.

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, 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 the fall of 2007 the sponsor requested funding to re-design the proposed pressure pipe irrigation system as a gravity pipe system. In 2008 the legislature authorized the change in funding to 100% grant to purchase invoiced materials and 100% loan for engineering services. The town is responsible for all other project costs and for installation.

In 2008, the sponsor signed the appropriate legal documents with WWDC and negotiated a contract for the design of the piped gravity irrigation system. Construction is anticipated to begin in the fall of 2009 and continue each fall for about three years.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

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	II	$740,000	2009
Level III	105	2006	I	$283,090	2010
Level III	121	2007	I	$434,510	2010

PROJECT DESCRIPTION:
The sponsor is a rural district located less than 5 miles east and north of Newcastle. Stetson Engineering, Inc completed a regional feasibility, cost analysis, and well study for Canyon I & S District in a 2003 Level II study. The study considered (i) connecting Canyon users to existing

supply and transmission infrastructure in and adjacent to Newcastle, and (ii) a stand-alone supply /storage/transmission/distribution system. The stand-alone system could possibly tie into and enhance the regional system.

It was determined to provide water supply to the sponsor through the construction of a new well facility and supply system. Through the Level II study, a new well location was identified, constructed and tested.

In 2005, the Canyon Improvement and Service District worked towards a funding package to fund their 50% match and well. The sponsor concluded that they could not afford the project after (i) design revisions to reduce costs, and (ii) design revisions to meet requirements of federal funding agencies. The sponsor approached WWDC and asked for (i) an increase in the project's total budget from $1,480,000 to $1,527,000, (ii) an increase in the percentage of grant appropriation, and (iii) a lower percentage cost to purchase the well.

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 addition, the sponsor requested and received additional funding from USDA-Rural Development. The total eligible project costs for this project is $2,175,523. The total project budget is $2,482,900.

This project is currently being designed and construction will start in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

23. PROJECT: Casper Alcova Ditch Rehabilitation

LEVEL: III
SPONSOR: Casper-Alcova Irrigation District
LOCATION: Natrona County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	118	2004	II	$595,000*	2010
Level III	147	2005	II	$285,000*	2010
Level III	105	2006	II	$294,800*	2010

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

PROJECT INFORMATION:
The Lateral 128-170 project segment replaces earthen ditch with about 3,600 feet of pipe plus appurtenances necessary to deliver irrigation water. The improvement should reduce seepage loss and improve operational efficiency. Worthington, Lenhart and Carpenter, Inc. provided design and construction observation services for this lateral, which is complete. The Lateral 239 project segment is also complete. Inberg-Miller Engineers, Inc. designed and inspected this construction which replaced several concrete drop structures with a pipe drop about 1,500 feet long with inlet and outlet structures. The sponsor also received funds from the USBR 2025 grant program for these two segments.

The largest project component converted Laterals 256-680 and 256-681 from open ditch to pipe. The new pipe delivery is anticipated to facilitate conversion of irrigated acres from flood to sprinkler and reduce seepage loss from the delivery laterals. The combined effect should reduce selenium concentrations in local drainage water. This project component was funded jointly with EPA 319 grant money administered by the Wyoming DEQ and funding from the WWDC.

WWDC funds were used for purchase of materials, while the 319 funds assisted the sponsor with labor, equipment costs, and engineering for this component. NRCS provided design and construction observation services for Laterals 256-680 and 256-681. Inberg-Miller Engineers, Inc. authored and administered the materials procurement contracts. This component is complete.

To conclude this project, the sponsor is investigating a pipeline to replace the Lateral 57 open ditch. The improvement should facilitate efficient water delivery. Construction is anticipated in the fall of 2009 and should be complete prior to the 2010 irrigation season.

The sponsor is responsible for all labor, equipment, engineering, permitting, legal, and land rights costs. WWDC is financing the purchase of materials with grant funds. More precise materials lists from final design and increases in materials prices led the sponsor to seek additional funding of $285,000 in 2005 and $294,800 in 2006.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

24. PROJECT: Casper Alcova Rehabilitation 2009

LEVEL: New Application
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 has requested funding to replace one drop structure and rehabilitate three others. All of the structures are on Lateral 256 and serve from 1,953 acres to 9,712 acres. The sponsor is requesting 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.

When complete this project will help assure continued reliable delivery of water to the irrigators in the district.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the Rehabilitation Program at Level III status with an appropriation of $184,920. 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: New Application
SPONSOR: City Casper
LOCATION: Natrona County
PROGRAM: New Development

PROJECT INFORMATION:
The funding request is for a 16-inch transmission pipeline and appurtenances that would provide redundancy to the City of Casper and the regional water customers. The proposed pipeline would connect an existing 24-inch Regional Water System pipeline, north of the North Platte River, to an existing City of Casper 16-inch transmission pipeline in CY Avenue and would be part of a road improvement project scheduled by the City of Casper for Paradise Drive in 2009. The system redundancy was recommended in both the 1978 Black and Veatch and the 2005 WWDC Level I water master plan reports. To bid the roadway project in summer 2009, the city is proceeding with the project design. The city's appropriation request is for construction and construction administration funding, the city has committed to paying 100% of the project design.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the New Development Program at Level III status with a 67% grant appropriation of $1,139,000. The sponsor will be responsible for financing the remaining the 33% of the project costs.

26. **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 III	121	2007	I	$3,200,000	2012

PROJECT INFORMATION:
The Casper Water Master Plan, which was funded using monies appropriated by the 2005 Legislature from WWDC Account I, has recently been completed and will be published in final form during November 2006. The master plan includes a detailed analysis of Casper's water pumping, storage and transmission systems. Deficiencies and recommended improvements have been identified in all six elevation pressure zones of the Casper Regional Water System by the study. 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. It is noted that a couple of these identified improvements are presently being addressed by the City and developers with the use of local funding to provide adequate water service into areas that have current development projects underway.

The improvement needs identified in Zone 3, south central Casper – i.e., south and south west of Casper College, are among the largest in scope and have been prioritized as being the most urgent projects which the city needs to proceed with in the future. 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 totally approximately 5,100 feet has been 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.

This project is currently being designed. Construction is anticipated during 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative is action required.

27. 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

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 February through April timeframe, which is the timeframe subject to a call for priority regulation by the Bureau of Reclamation to fill Pathfinder Reservoir. In order for the City to safely and efficiently operate the Reservoir, several improvements are recommended to ease the operation and allow for remote monitoring and control of the facilities. The proposed improvements are not essential for the operation of the reservoir, but meet the City's requirements: to reduce the need for routine on-site operation of the reservoir, and allow for daily monitoring of the facility. The facility is currently in good condition and can be manually operated with minimal improvements. The full range of recommended improvements are as follows:

Phase I:

- Reservoir and Spillway: the spillway and overflow are adequately sized; the spillway needs some minor concrete repairs and grouted riprap should be added at the downstream edge.
- Dam: the dam is in good condition; however, small V-notch weirs 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.

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 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 cash and revenues. Level III funding was received following the 2008 legislative session. The project is currently underway and is scheduled for completion by the end of 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

28. PROJECT: Cheyenne Belvoir Ranch Phases I and II

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	34	2004	II	$350,000	2006
Level II-Ph II	99	2006	I	$450,000	2008

PROJECT DESCRIPTION:
The City of Cheyenne purchased the Belvoir Ranch, located west of the City, in June of 2003. The Ranch consists of approximately 17,000 acres. The City wishes to evaluate and eventually develop the water resources of the Ranch. The 2004 two-year Level II Phase I study, contracted to JR Engineering, drilled 10 test holes and completed 7 of them as 4 inch Ogallala aquifer monitoring wells, completed 1 (Belvoir #5) to production well standards, and plugged the last 2.

The 2006 Level II – Phase II study, completed in 2007, included the drilling of one additional monitoring well and one additional production size test well, the Belvoir #6. After the drilling phase, an aquifer analysis was completed using the pumping data from the Belvoir #5 and Belvoir #6 well tests. The City's treatment plant capacity was also analyzed and upgrades were determined to accommodate the increase in flow from this new well field. In addition to the well drilling and treatment plant analysis, the related system infrastructure was designed and cost estimates prepared to complete these wells and tie them into the current Cheyenne water supply system. This well field supply analysis also looked at potential water supplies from the Casper

and White River formations to be analyzed in separate projects. Due to the uncertainty in the flow amounts from the Casper and White River formations, the City has chosen to delay their Level III application to construct the well field infrastructure until the findings from these pending projects are available.

In 2008, the University of Wyoming and the Department of the Army Corps of Engineers used the Belvoir TH monitoring wells to collect data for two research projects.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

29. PROJECT: Cheyenne Belvoir Ranch Groundwater

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

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 of the resource that was partially defined by the test drilling program conducted under the previous WWDC/BOPU Paleozoic ground water grant project. Two additional test wells targeted at the most favorable aquifer potential within the Belvoir Ranch will be drilled. A production-size well will also be included in the program. The location and depth of the production well will be based on test well results.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated in the New Development Program at Level II status with an appropriation of $2,000,000.

30. PROJECT: Cheyenne's Granite Dam Spillway Improvements

LEVEL: New Application
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

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 now in excess of 100 years old. In 2004,

States West provided a Safety of Dams Report which included an assessment of the spillway at Granite Dam. Findings of the analysis included eroded wing walls, undesirable vegetation, as well as cracked and deteriorating concrete. In July of 2005, States West followed up with a conceptual design and cost estimate for the replacement of the spillway at Granite Dam. The City of Cheyenne BOPU will provide project matching funds from its own cash and revenues to replace the original spillway.

Level III funding was received following the 2008 legislative session. The project is currently underway and is scheduled for completion by the end of 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

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

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 one primary river system, the main stem of Clear Creek, and tributaries including French Creek, Rock Creek, Shell Creek, Piney 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 quantity/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 large and small irrigation ditches have requested assistance for improvements to irrigation infrastructure.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the Dam and Reservoir Program at Level I status with an appropriation of $300,000.

32. **PROJECT:** **Clearmont CBM Impact**
LEVEL: II
SPONSOR: Town of Clearmont
LOCATION: Sheridan County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	85	2007	I	$75,000	2009

PROJECT INFORMATION:
The Town of Clearmont is located in eastern Sheridan County on US HWY 14-16, 40 miles SE of Sheridan. The town is situated on Clear Creek (trib. Powder River) and lies on the Burlington Northern & Santa Fe rail line that runs through NE Wyoming from Edgemont S.D. to Billings MT. The Town is served by two water supply wells. Well No. 1 was drilled in 1979 (SEO Permit No. U.W. 37666) to a depth of 522 feet. Well No. 2 was drilled in 1980 (SEO Permit No. U.W. 45082) to a depth of 1,447 feet. Both wells are completed in the Paleocene-age Fort Union Formation, a thick sequence (up to 2,500') of interbedded sandstone, claystone, carbonaceous shale, and coal seams. The Fort Union Formation and overlying Wasatch Formation have been extensively developed in the Powder River Basin for the coal bed methane (CBM) gas entrained in the coal seams. CBM wells pump water to release the gas from the thick coals. The Town is concerned that encroaching CBM development will adversely affect their supply wells and wanted a study that would predict the potential injury and what protection and/or contingency the Town might enact to ensure a reliable source supply. The results of the study are anticipated to be delivered in early 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

33. PROJECT: Cody Canal Irrigation District Hydropower

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	II	$228,000	
Level II, PII	85	2007	I	$ 75,000	2008

PROJECT DESCRIPTION:
The Cody Canal Irrigation District was formed in 1911, serves 11,432.85 acres with a canal system running from above the South Fork of Buffalo Bill Reservoir to a point several miles northeast of Cody. The system supplies raw water to agricultural uses, urban users as well as supplying a portion of Cody's municipal irrigation water.

The 2005 Level II project reviewed the Sulphur Creek, Newton, and Purvis Drop structures and found the Purvis structure the only one economically feasible of producing hydropower. The District requested a Level II - Phase II hydropower analysis on the Purvis Drop structure.

The Level II, Phase II report, completed in 2008, outlines the options for construction of a hydropower plant at the Cody Canal Irrigation District Purvis Drop. The preconstruction phase would cost $575,000 with a total construction cost of approximately $6,000,000. The District has requested funding to construct the Purvis Drop hydropower facility. Due to a funding shortage, the WWDO recommends that the project be delayed due to its low priority.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

34. 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 (4%, 30 years)

PROJECT DESCRIPTION:

The Cody Canal Irrigation District serves 11,432.85 acres with a canal system running from above the South Fork of Buffalo Bill Reservoir to a point several miles northeast of Cody. The system supplies raw water to agricultural uses, urban users as well as supplying a portion of Cody's municipal irrigation water.

In 2006, the Level II Final Report inventoried the Cody Canal Irrigation District system and prioritized system components for rehabilitation or replacement. Based on recommendations of this study, the sponsor requested a Level III – Phase I project for design services to rehabilitate or replace nine of the most critical structures on the system. In 2007, the sponsor requested construction funding for three of those structures. Construction of the Sulfur Creek Siphon and the Sulfur Creek Spillway began in the fall of 2008 and will be completed prior to the 2009 irrigation season. The third structure should be built during the 2009-2010 winter 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.

35. 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:

Based on recommendations of a previous study, the Cody Canal Irrigation District would like an interactive Geographic Information System (GIS) created and built for the district to use as a planning and management tool. This study would map the entire conveyance system, identify irrigated polygons, digitize the Big Horn re-adjudication maps, identify repair needs of control structures, and prioritize maintenance and repair schedules.

This project is on schedule and should be completed by spring 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

36. 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 II	8	1995	I	$ 73,391	
Level III	59	1996	I	$785,000	
Level III	45	1997	II	$714.060	
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 will evaluate their current supply system and update their plans to current standards for future growth and expansion.

The updated Master plan was authorized in 2008, and should be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

37. PROJECT: Cokeville Reservoir/Smiths Fork Dam

LEVEL: II
SPONSORS: Cokeville Development Company
LOCATION: Lincoln County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	10	1994	I	Hold	1996
Level II	15	1996	I	Hold	1998
Level II	82	1998	I	Hold	2000
Level II	36	2000	I	Hold	2002
Level II	7	2002	I	Hold	2004
Level I	125	2003	I	$200,000	2004
Level II	75	2005	I	$150,000	2006
Level II	85	2007	I	$81,000	2008

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 project would 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.

The project would provide recreation, hydropower, and supplemental irrigation water supply benefits to Wyoming water users and the public. Presently, the tri-state Smiths Fork project appears to be the most economical means to develop the Cokeville and Cokeville DevelopmentCompany's (CDC) storage allocation of 14,520 acre-feet.

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. The project is presently on hold status in the WWDC's New Development Program.

In 2003, the 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 water for agricultural uses, for flood and erosion control. This study differed from past studies in that it looked at water use only in Wyoming and the potential of developing off-channel sites. The states of Idaho and Utah are not interested in developing storage in Wyoming at this time, and therefore, down stream uses and benefits were not significant in the evaluation.

The 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 then 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 the reservoir and mitigation costs would be high. Economics based only on water uses in Wyoming make the project impractical. Support of water users in Idaho and Utah would greatly improve the economics.

The Smiths Fork Watershed Improvement District and the CDC have requested a Level II study. These groups and other organizations in the Cokeville/Smiths Fork area are in the process of forming a Cokeville Water Conservancy District to support a project on Smiths Fork. However, the project recommended by the WWDC entails working with interests in Utah and Idaho to construct a larger project. Interests in each state plan 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 af dam and reservoir on the Smith's Fork near Cokeville. In a September 11, 2006 meeting with the CDC, the COE indicated they are planning to initiate and a Flood Control and Ecosystem Enhancement Study in FY 2007.

A Level I investigation of the Sublette Creek watershed for potential reservoir sites and the Covey/Mau Canals for rehabilitation was requested (letter dated 8/10/2006) by the Cokeville Development Company (CDC). This project is an outgrowth or continuation of the Smiths Fork Study that intended to identify all potential reservoir sites for the CDC. The Sublette Creek watershed is located within Lincoln County, Wyoming. The Creek is a tributary of the Bear

River draining the mountains south and east of Cokeville, Wyoming. There is a need for a multipurpose reservoir in this area that would provide water for agricultural uses, flood control, and erosion control. Several reservoir studies in the nearby Smiths Fork watershed have been completed to date. A study is needed to determine if the Sublette Creek area contains a site suitable for a multipurpose reservoir. An additional part of the study is also requested to determine if efficiency of the Covey and Mau Canals can be improved. The canals are currently supplying water from the Smiths Fork to irrigated land south of Cokeville. This study is currently underway and on schedule.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

38. 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 a dams and reservoirs, which would address much of the identified irrigation shortages.

The Level I study concluded that a Level II, Phase I study be initiated and funded by the dams and reservoir program to provide a more detailed hydrologic evaluation of four possible locations for dams and reservoirs within either the Cottonwood or Grass Creek drainage. The sites recommended for further analysis included: 1) The Grass Creek Causeway site, which may address all irrigation shortages on Grass Creek and some shortages on Cottonwood Creek below the confluence; 2) The Putney Flat site, located in the upper Cottonwood Creek watershed that would service irrigation demands within the area; 3) Wales Reservoir site, which could be expanded to store any remaining flows below the Putney site, including storable flows from Hamilton Dome, that may potentially be operated in tandem with the Putney site; and 4) The Lake Creek Reservoir site, located above the Putney site, to store as much of the available flow as possible, which would reduce the size of a reservoir located at the Putney site. In addition to a more robust hydrological analysis to identify irrigation shortages, the Level II, Phase I study will include 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.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

39. **PROJECT:** **Cottonwood Lake Storage Enlargement**
LEVEL: II
SPONSOR: Cottonwood Irrigation District
LOCATION: Lincoln County
PROGRAM: New Development

EXISTING LEGISLATION:

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

PROJECT INFORMATION:
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 will evaluate Cottonwood Creek hydrology; the potential for storage; irrigation water demands; geotechnical considerations; wetlands, and other environmental and permitting issues.

The study looked at a number of alternatives to provide supplemental water to irrigators in the Cottonwood Irrigation District. The 2006 final 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).

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 will be examined. If a funding package appears possible, further work on the dam design and permitting will be conducted. The completion date for this current study was extended to December 31, 2009. This study is currently underway and is on schedule.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

40. **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

PROJECT INFORMATION:
This project consists of enlarging 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 own 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 10" transmission pipeline and the design portion of the 6" transmission pipelines. The project received a 67 % grant of $1,366,800 for the design, construction engineering, and construction of the 10" transmission pipeline and the design portion of the 6" transmission pipelines. The total project budget is $2,040,000.

The sponsor has secured its funding package and is starting the engineering design process.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

41. PROJECT: Crowheart Area/Dinwoody Canal System

LEVEL: II
SPONSORS: Shoshone & Arapaho Tribes
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	34	2004	II	$150,000	2006
Level II	99	2006	II	$200,000	2007

PROJECT INFORMATION:
The Level I water supply study identified solutions to chronic water shortages at the end of the Dinwoody Canal System (Crowheart and Willow Creek areas). Specifically, the study evaluated the feasibility and cost/benefits of a storage facility on Willow Creek, enlargement and/or improvement of the Dinwoody Canal System, and enlargement of Lower Dinwoody Lake. The study will assist in operation and management of the canal system, and recommended further evaluation of alternatives to improve water supply to the lower end of the system.

The Level II study evaluated seepage loss from the Dinwoody Canal and also water supply improvement alternatives. Recommendations were made to the sponsor for conveyance system rehabilitation. Conceptual design drawings to support cost estimates were completed. A dam on the Willow Creek drainage was evaluated and a reservoir sizing analysis conducted. A proposed 2,980 Ac-Ft capacity was found to benefit downstream irrigators and would be supplied from diversions from Dinwoody Lake, Dry Creek and Meadow Creek. Geotechnical analyses were conducted for this facility located on Tribal Trust Lands. Alternative designs were considered and a Site Plan of the Preferred Alternative was prepared. Construction permits were considered and an inventory of cultural resources was conducted. This study has been completed and the final report was delivered in 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

42. PROJECT: Dayton Raw Water Irrigation

LEVEL: II
SPONSOR: Town of Dayton
LOCATION: Sheridan County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	85	2007	I	$100,000	2008

PROJECT INFORMATION:
The town of Dayton requested Water Development funding from the 2007 legislature for a Level II study to investigate a raw water irrigation system for town. Using raw water for irrigation has two benefits for Dayton. The first is to preserve the use of their surface water rights. With the recent completion of a Madison well for their primary drinking water supply, the town is not using their surface water rights as much as they have historically. Using their surface water right for raw water irrigation would allow them to continue putting this important water right to beneficial use. The town would also see a benefit by reducing the demand on the water treatment plant in the summer months, which in turn will help them meet the additional supply demands the town is currently facing.

The report was finalized in May of 2008. Included in the report were two alternatives to distribute raw irrigation water throughout the Town. The consultant recommended Alternative One as the preferred alternative; it has an estimated cost of $1,492,332. After analyzing the selected alternative, the Consultant determined that only $6,707 would be eligible for WWDC funding. This is because the largest component of the project is building the distribution system that provides water to the Town residences. The Town of Dayton is currently pursuing alternative funding to match the Tax money they saved for this project.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

43. PROJECT: Deaver Flume Rehabilitation II

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	86	2001	II	$100,000	2002
Level III	121	2007	II	$461,000*	2012

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

PROJECT INFORMATION:
Subsequent to a 2002 Level II study financed by WWDC, the sponsor is making a concerted effort to replace and rehabilitate flumes and siphons in its water delivery system. Frannie Flume is located relatively high in the water delivery system and is nearing the end of its ability to convey water, due to corrosion and wear over the years. Construction of new inlet, spillway, and outlet structures and installation of a new steel liner are complete.

The lower elevations of pipe in the Lateral 114F Siphon were replaced or lined several years ago during a Bureau of Reclamation Rehabilitation and Betterment project. Installation of the balance of the pipe in the Lateral 114F Siphon, and extension of the inlet to the Lateral 114F Siphon further up-ditch to the Frannie Lateral are anticipated for the 2008-2009 winter season.

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 provide a more reliable structure at the Frannie Flume and a watertight pipeline at the Lateral 114F Siphon, both capable of many years of service.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

44. **PROJECT:** **Deaver Rehabilitation 2009**
LEVEL: New Application
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

PROJECT INFORMATION:
Subsequent to a 2002 Level II study financed by WWDC, the sponsor is making a concerted effort to rehabilitate its water delivery system. This project would replace open ditches on laterals D56, 196F, and D56-64 with pipe. The sponsor is requesting financing from WWDC 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 facilitate delivery of irrigation water and reduce seepage and evaporative losses.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated at Level III status into the Rehabilitation Program with an appropriation of $673,000. 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.

45. **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 IV	89	1985	I	$45,000,000	N/A
Level IV	59	1996	I	$15,000,000	N/A
Level IV	81	1999	I	$13,500,000	N/A

PROJECT INFORMATION:
The Pathfinder Modification Project has been proposed as a less expensive replacement for the Deer Creek Project. The Pathfinder Modification Project will also address Platte River endangered species issues. The estimated construction cost for the Deer Creek Project is $100,000,000. The estimated cost for the Pathfinder Modification Project is less, at $8,500,000.

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

46. PROJECT: Dixon Water Supply

LEVEL: II
SPONSOR: Town of Dixon
LOCATION: Carbon County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	85	2007	I	$75,000	2008

PROJECT INFORMATION:
The Town of Dixon is currently having difficulty maintaining fresh water at their water tank and ensuring adequate chorine residual at all services throughout the Town (EPA administrative order). The Dixon water treatment plant directly serves the Town's distribution system and chlorination takes place at the plant. The water from the plant then passes through a 10,000 gallon contact chamber and is pumped into the distribution system and then ultimately to a 100,000 gallon water tank, one mile north of the Town. An isolated transmission line would allow the Town to use the storage tank as an integral part of the disinfection system, provide better turnover and taste to the Town's water supply – while minimizing the chances of over-chlorination and the accumulation of disinfection byproducts. It would also serve to provide better pressures through Town.

A Level II feasibility study which addressed this issue was undertaken in 2007. The study included an identification of current and projected demands, a hydraulic analysis, pump tests of the infiltration gallery, conceptual designs for recommended improvements, cost estimates and an economic analysis. An investigation of groundwater supply opportunities was also performed during the study. This project was completed May, 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

47. **PROJECT:** **Douglas Ground Water**
LEVEL: II
SPONSOR: Town of Douglas
LOCATION: Converse County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	16	1999	I	$1,995,000	2003
Level I	46	1998	I	$100,000	1998
Level II	99	2006	II	$ 75,000	2008

PROJECT INFORMATION:
Approximately 80% of the City of Douglas water supply is dependent upon the Little Box Elder Spring, located 16 miles west of town. The city holds an adjudicated right under Permit No. 16937 (Douglas Pipe Line No. 1, 3.8 c.f.s., Priority 8/20/1923) and Permit No. 7179E (Priority 1/17/1996). Although long considered a ground water source, the spring water is exposed to the atmosphere and potential surface contaminant influences before flows are conveyed via pipeline to town. The U.S. Environmental Protection Agency has deemed ground water under the influence to be subject to surface and enhanced surface water treatment rules. In order to avoid treatment costs the City has explored ways to capture the spring flow before it vents to the ground surface. In 2003, as part of water system expenditures funded by WWDC Level III program funds, the City drilled a test well on the spring property in hopes of capturing the natural artesian flow present at the spring. The test well was not successful in capturing the spring conduit.

The Level II study is investigating a mechanism whereby the Little Box Elder Spring could remain classified as a secure ground water source under federal Safe Drinking Water Act requirements (i.e., subject only to the Ground Water Treatment Rule). The study will review local/regional hydrogeology, the results of the 2003 test drilling, and will suggest engineering solutions (e.g. conceptual design of replacement spring housing, additional test drilling, etc) that could be undertaken by the City. The study was completed in November of 2008

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

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

PROJECT INFORMATION:
The City of Douglas, the County seat of Converse County, is situated on the southern terminus of the Powder River Basin on the North Platte River and at the junction of I-25 and State HWY 59. Since 1991, actual WWDC expenditures on City of Douglas construction projects total $4,015,966.28, including well/pipeline, storage, diversion/intake, springhouse rehab, test drilling, and pump station projects. A previous Water Supply Master Plan for was completed in 1998, followed by two Level II studies in 2000 and 2008 (Water Supply Rehabilitation Study, and Douglas Ground Water Box Elder Spring Study).

The City of Douglas has three water sources to meet its potable water demands including the recently completed water treatment plant. The City is experiencing significant growth which is projected to continue for the immediate future when considering Coal, Oil & Gas, Uranium, Wind Turbine, and Pipeline corridor industries active and with future development potential in Converse County. The city has studied the capacity of their transmission, distribution, and storage systems and currently has a comprehensive hydraulic model developed for its water system. In order to address the current and projected growth pressures in the community and meet the needs of its customers, the City requests a Level I study 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.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends the project be incorporated into the New Development Program at Level I status with an appropriation of $200,000.

49. **PROJECT:** **Dubois Water Supply**

LEVEL: New Application
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 II report has resulted in this project and the Dubois Well No. 11 Supply Project

PROJECT INFORMATION:

The Town currently delivers 76,714,000 million gallons of water annually to 628 taps. The average gallons used 233 is per capita while the peak demand is 757 gallons. The Town is requesting grant and loan funding for construction of a new storage facility and to upgrade the No. 10 Well. The storage facility is needed in order to increase the storage to meet the DEQ requirements for max day demand plus fire demand. The Town also would like to upgrade the No. 10 well including increasing the piping size, replacing/enlarging the pitless adopter, modifying the electrical and increasing the pump size. All of the 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.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends the project be incorporated into the New Development Program at Level III status with an appropriation of $2,130,000. The recommended financing plan includes a 67% grant and a 33% loan with an interest rate of 4% and a term of 30 years.

50. **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	2010
Level III	75	2008	I	$210,000	2011

*Level II report has resulted in this project and the Dubois Water Supply 2009 Project

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 near the existing Well #8 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 funded by the 2006 legislative session and the Town determined that the funds were not sufficient to construct the project. The Town felt that due to several reasons the project funding needs to be increased. First, the costs of materials, fuel and labor had increased. Second, the wells output is higher than expected and the transmission line needs to be larger. Finally, the Town determined that it needs to have a continuous water supply and so a backup generator is needed on one of its wells. The 2008 legislature funded this additional request and the Town has selected an engineer and has started design of the project. Construction should begin in late 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

51. **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

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 2009.

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

52. 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	147	2005	II	$1,508,000	2010

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 2009.

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 Supervisory Control And Data Acquisition (SCADA) system to control and monitor flows at the diversion headgates. The BuRec funding is a 50% grant match to WWDC funding being requested from the 2009 Legislature. A consulting engineer will be 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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC is recommending funding of phase II of the Level III rehabilitation project in the amount of $6,580,000 in the form of a 50% grant with the remaining funds to be provided through the Bureau of Reclamation's Basin Wide Salinity Control Program.

53. 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

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. These entities currently lie outside the Gillette Planning District Boundary established in 1994.

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. The final Level II report recommended that the sponsor purchase the well from WWDC ($62,428.79) and connect it to their existing system, build a new storage tank, and connect the High Plains Subdivision to the system.

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. The WWDC project eligible costs are $555,000 and the total project budget is $577,386.

In 2007, the sponsor secured the services of an engineer and is currently designing the project. It is anticipated this project will be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

54. PROJECT: Enterprise Conservation Program

LEVEL: II
SPONSOR: Enterprise Watershed Improvement District
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	85	2007	II	$100,000	2008

PROJECT INFORMATION:

The Enterprise Irrigation and Power Company ditch system, south of Lander, Wyoming is a trans-basin system that diverts water from the Middle Popo Agie River watershed and applies it to lands in the Little Popo Agie River basin. Getting the water from its point of diversion

(headgate at Roaring Fork Creek) to the irrigated lands involves a series of conveyance elements and diversions, including remote segments cut through bedrock. The WWDC Popo Agie River Watershed, Level I Study (completed July, 2003) conducted field inventories and seepage studies of the system and developed reconnaissance level rehabilitation plans. The recommended improvements were then summarized and prioritized based on the ability of the improvements to replace or rehabilitate a potential failure in ditch operation, improve water management by providing measurement capabilities; or to mitigate significant seepage losses (estimated to be greater than 25%).

A Level II feasibility study was undertaken in 2007 which focused on an assessment of current conditions in the system, including identification and mapping of existing facilities, a more detailed determination of seepage losses, and an evaluation of lateral delivery efficiency. These efforts contributed to the development of a canal efficiency improvement strategy, conceptual level design of canal improvements, and a financial analysis. Moreover, the study provided the District with a comprehensive picture of the present condition of the system, tools to maintain and manage system data, and a suite of improvement recommendations that could be implemented in phases, as funding allows. This project was completed September, 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

55. 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 addresses these issues, along with 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 is ongoing and is scheduled for completion late 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

56. 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	2009

PROJECT INFORMATION:

The Farview Water District is within the Wind River Basin, approximately 8 miles north of Riverton on the Burma Road (NE SE 21-T2N-R4E). 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 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, with concentrations of total dissolved solids, sodium and sulfates exceeding EPA secondary drinking water standards. The District also chlorinates as needed to control bacterial levels.

Four areas potentially requiring improvements include:

- Location and construction of a new water supply well
- Increasing storage for present/future demands and for fire flows
- Looping of the water main for improved pressures and elimination of stagnant water/water quality issues
- Installation of additional fire hydrants

Of these, the primary concern to the district is a new water supply well. The study will be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action required

57. 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*	2005
Level III	105	2006	II	$160,000	2010

* Reduced appropriation from $98,500 to $ 75,000 at sponsor's request.

PROJECT INFORMATION:

The Fayette Irrigation District would like to rehabilitate a major conveyance ditch known as the West Lateral. This portion of the system has the potential to irrigate 403 acres or roughly 19% of the total adjudicated acres in the district. A Level II study by WWDC was completed in 1999.

The district is eager to repair their aging system and is wary of involuntary abandonment of their water rights. This district holds a 1906 water right for approximately 21 cfs; and another right secured in 1952 for 7.45 cfs. By completing the rehabilitation of this irrigation system, WWDC can prevent the loss of this water to downstream, out of state users.

While most lots are broken into 10 acres, there are several district members who own several lots and are able to produce hay for sale. The largest agricultural production occurs on 300 acres of irrigable land known as the Christmann Ranch.
The 1999 Level II 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 project had a reversion date of July 1, 2004. The sponsor declined to move forward with the project due to financial concerns.

Subsequently the sponsor requested rehabilitating a smaller portion of the conveyance system, which would result in a smaller debt load to the District. The sponsor's request was approved by the 2002 legislature.

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 need to be obtained from the adjacent landowners. An attorney has been working with the district on procuring the easements and the resolution of ongoing litigation throughout the years 2007 and 2008. It is anticipated that these matters will be satisfactorily resolved in early 2009 and the improvements can be completed by the end of 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

58. **PROJECT:** **Fort Laramie Water Supply Rehabilitation**
LEVEL: Level II
SPONSOR: Town of Ft Laramie
LOCATION: Goshen County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	85	2007	II	$100,000	2008

PROJECT DESCRIPTION:
The Town of Fort Laramie, located in Goshen County approximately 20 miles west of Torrington, requested a review of their water supply system and a rehabilitation plan for system upgrades. These system upgrades included the review of their existing storage and transmission lines for rehabilitation and expansion and completion of an additional existing well.

During 2008 the Level I Consultant was unable to complete the modeling of the Town's water system due to operation, maintenance, and management issues. Because of these issues, the Town was unable to provide accurate water production and use data for analysis. A majority of these issues were identified and resolved during the course of this study. However, the record keeping issues, which are out of the control of the Consultant or the WWDO, continue to prevent the filing of reliable system data. The Town needs to resolve these issues and collect twelve consecutive months of accurate and consistent well production and water use records, and provide these records to the WWDO for use in possible future analysis. The Town also needs to acquire ownership or exclusive control of real property where system improvements are to be constructed.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

59. PROJECT: Frannie Raw Water

LEVEL: II
SPONSOR: Town of Frannie
LOCATION: Big Horn & Park Counties
PROGRAM: New Development

PROJECT INFORMATION:
The Town of Frannie's raw water system is currently served by the Kirk #1 well. This well was originally drilled in 1955 and found to have a geothermal artesian flow from the Madison aquifer. The well served the Town for many years as a raw water irrigation supply source. Due to its construction and age, the well progressively decreased in production. In 2005 a level II study of the well was completed to determine the feasibility of rehabilitating the well to increase its production.

An additional Level II study was conducted to identify a suitable raw water supply source to serve as an emergency supply for non-potable water and for fire-fighting purposes. In Phase I of this study, raw water sources were investigated and evaluated and the irrigation service area and demand projections were determined. Phase II was to inventory the existing raw water distribution system, recommend improvements, evaluate diversion structures, to identify needed permits, and provide conceptual design and cost estimates. At the request of the Town of Frannie, this project was concluded at the end of Phase I. This study has been completed and a final report was delivered in 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

60. 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

PROJECT INFORMATION:

This project includes the construction of five Fort Union formation wells. The City of Gillette recently completed the construction of two replacement Fort Union wells, S-12 and S-20, with its own funds. The seven new Fort Union wells will serve to address the immediate water need of the town, however additional supplies will be needed to meet the areas long term water demands. Construction of the new Fort Union wells will be immediately adjacent to existing Fort Union wells. Wherever possible, the City of Gillette intends to use existing collection pipelines to convey water from the new wells to Pump Station No. 1 where the water is treated and pumped into the distribution system. Where the collection pipelines are undersized, the City intends to replace the pipelines with larger pipelines. The City has indicated that they intend to upsize the most of the undersized transmission pipelines during road improvement projects. The City of Gillette has noted that they will pay for the costs associated with upsizing the collection pipelines.

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.

Currently the City is negotiating an engineering agreement and anticipates well construction to commence in the spring of 2009.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

61. 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	2009
Level III	105	2006	II	$ 1,675,000	2010

PROJECT DESCRIPTION:

The City of Gillette is served by a 42- mile 30-inch steel water transmission pipeline from the Madison Well Field, located approximately 12-miles north of Moorcroft, to town. The pipeline was originally constructed with electrical jumper wires that were welded on either side of the pipeline joints. The jumper wires provide electrical continuity that cathodically protects the pipe. The electrical wires at the pipe joints have failed at the welds resulting in the loss of the electrical continuity and subsequent external corrosion along segments of the pipeline. Phase I of this

project will reestablish the pipeline electrical continuity by replacing the electrical wiring at the pipeline joints. Phase I is currently under construction and the project is anticipated to be completed by spring 2009.

Phase II of the project will address rehabilitating the interior mortar lining of the pipeline to protect the pipeline from internal corrosion. To estimate the extent of the internal joint repairs, and associated costs to complete Phase II, a pilot study was completed. The pilot study entailed a video inspection of the pipeline, and grout repairs, on approximately 4.69 miles.

Based on the pilot study results, the engineer's construction cost estimate was revised to reflect anticipated costs to: 1) complete the internal joint repairs, 2) complete joint bonding not completed under Phase I, and 3) to design and construct the cathodic protection deep anode beds.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends an increase of $2,177,500 in the Level III appropriation from $2,900,000 to $5,077,500. The financing plan includes a 67% grant with the sponsor financing the remaining 33% of the project costs.

62. PROJECT: Gillette Regional Master Plan

LEVEL: I
SPONSOR: City of Gillette
LOCATION: Campbell County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	$ 350,000	2010

PROJECT INFORMATION:
The City of Gillette requested a comprehensive regional water master plan for the City and surrounding areas. The growth in Gillette in the last ten years has put additional pressure on the water resources that Gillette and its neighbors depend upon. In 2007 alone, the city planning office approved over 900 new residential building permits.

A regional planning study is needed to identify the impacts this growth is having on available water resources, and to evaluate the existing water resources in the Gillette area to determine the best course of action to address present and future needs. This would include evaluating the potential for Gillette to serve as the water purveyor for a regional system.

This project is on schedule and should be completed by spring 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

63. PROJECT: Glendo Water Supply

LEVEL: II
SPONSOR: Town of Glendo
LOCATION: Platte County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	99	2006	I	$625,000	2008
Level II	33	2008	I	$150,000	2009

PROJECT INFORMATION:

In early 2005, the Town of Glendo began to see a loss of production in their Downey Well #1. A new irrigation well drilled nearby was determined to be influencing the Downey well during the maximum demand period and was responsible for the decrease in production. The Town's desire was to develop a redundant ground water source supply that would not be under the influence of any existing wells. In addition, the Town wanted to update their master plan completed in 1990.

A WWDC exploration test drilling program began in August 2007, and required additional funds to define and isolate the best site for a new municipal well. The target aquifer, the Converse Sandstone member of the Hartville Formation, was partially removed by erosion prior to deposition of the overlying White River Formation. A successful geologic test hole (the third of three geologic test holes), penetrating 90 feet of Converse Ss. was constructed at the Town's waste water lagoon site, however a municipal water supply well cannot be sited adjacent to a lagoon. In summer of 2008, three additional test holes were drilled and a production-size well was completed and tested that can serve as a new source supply well for the Town. The final report on the project will be completed in late 2008.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action required

64. 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	85	2007	I	$590,000	2012
Level II	99	2006	I	$625,000	2008
Level II	33	2008	I	$150,000	2009

PROJECT INFORMATION:

This project provides for incorporation of the WWDC Level II production-size test well (see Glendo Water Supply, Level II above) into the existing Town of Glendo water supply system.

In 2007, the WWDC recommended the project be continued in the New Development Program at Level III with an appropriation of $590,000. The funding was set at 67% grant and 33% loan. The grant portion thereof is $395,300 and the loan was for $194,700 at 4% interest for a 30-year term. With completion of the Level II study, it was clear that additional Level III funds would be required to accommodate the additional pipeline needed to connect the new well located at the Town's airport.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be continued in the New Development Program at Level III status with an appropriation increase of $190,000. The funding will be 67% grant and 12.6% loan. The remaining funds will be provided by the Town.

65. PROJECT: Glenrock 2006 Water Storage Tank

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 III	105	2006	I	$636,835	2010

PROJECT INFORMATION:
The Glenrock Well and Tank Level II project included drilling a new well to supplement the town's existing groundwater water supply source. Under a Level II study, Well No. 6 was constructed approximately ½-mile west of the town's existing Well No. 1 and Well No. 2. Results of Well No. 6 pump tests indicated that the well would not meet the projected needs of the town. A second test well, Well No. 7, was recommended in the Level II report near the existing Well No. 5. Additionally, the Level II report recommended construction of a new bolted steel storage tank near Well No. 5. The Glenrock 2006 Water Storage Tank project also includes modifications to an existing pressure control station, SCADA modifications, and a chlorine system.

The project is currently in the design phase and construction is anticipated to be completed in the fall of 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

66. Project: Glenrock Master Plan

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

PROJECT DESCTIPTION:
The town is requesting a Master Plan to updated 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 do an evaluation of the water system financing.

The town has had recent WWDC studies that provided growth projections and a hydraulic model. There appears to be a need to re-examine the growth projections due to newer information about potential population impacts, and to verify and calibrate the existing hydraulic model. The model

can then be used to re-evaluate the water supply and infrastructure based on more current population projections. A functional GIS model is a tool that will be used for future planning, will provide mapped locations of the water system infrastructure, and will help optimize system operations and maintenance.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the Glenrock Master Plan project be incorporated into the New Development Program at Level I status with an appropriation of $150,000.

67. 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

PROJECT INFORMATION:
In 2003 the Town of Glenrock submitted an application requesting to drill a test well near the Town's existing Well #5 and determine the feasibility of constructing a water storage tank near this location, as well as evaluate a power generation system at the current pressure reducing valve near Well #2, and include 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 1174 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 if State Regulation is requested by affected water users, 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 and the project agreements were signed and design has been started. Early in the project it was determined that the control building for the well had be omitted from the original request. The Town has since requested the additional funding in order to have the funding to construct the control building for the project.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends an additional appropriation of $180,000. The recommended financing plan remains a 67% grant and 33% loan with an interest rate of 4% and a term of 30 years.

68. PROJECT: Gooseberry Rehabilitation

LEVEL: 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

PROJECT DESCRIPTION:

The Gooseberry Creek Irrigation District was formed in 1984, serves approximately 8000 acres and runs from south of Meeteetse to the Worland area. In 1984 Western Water Consultants, Inc. completed the 'Level II Feasibility Study Gooseberry Creek Water Development Project'. 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. The 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 these 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 project agreements were signed in late 2008 and the design should be complete for construction in the fall of 2009.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

69. PROJECT: Goshen Irrigation District Water System

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	228-10	1985	II	$30,973	
Level IV	97	1986	II	$437,688	
Level III	231	1991	II	$330,000	
Level II	38	1991	II	$130,958	
Level III	89	1993	II	$24,302	
Level II	74	1993	I	$36,826	
Level II	81	1999	II	$59,502	
Level III	96	2000	II	$1,726,000	2004
Level III	118	2004	II	$500,000	2010

PROJECT INFORMATION:

The Goshen Irrigation District received a grant of $1,726,000 for 100% of invoiced materials purchased to automate the water delivery system, to rehabilitate farm turnouts and to implement seepage control measures, such as canal lining and placing ditches into pipe. The construction will be performed with district resources at district cost. Engineering, permitting, and other

project costs will be borne by the district. In 2004 the legislature appropriated an additional $500,000 for this project and extended the date that unused project funds revert to the water development account to 2010.

When constructed, the improvements will reduce seepage losses in canals and laterals and enable GID to increase system efficiencies.

The sponsor should complete the project prior to the 2010 irrigation season.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

70. PROJECT: Goshen Rehabilitation 2009

LEVEL: I
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

PROJECT INFORMATION:
Goshen Irrigation District 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 from Pathfinder Dam. 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 was then ready to implement additional water conservation upgrades to their system. The first step of this phase of system analysis was to develop a GIS based system inventory of existing facilities, completed improvements, and future potential upgrades. The future potential system upgrades included; headgates, check structures, canal lining, pipelines, measurement structures, and re-regulation reservoirs. To go along with these upgrades were system automation upgrades and a review of system operations. All other needed system improvements found that were not included in the scope were listed and analyzed as the budget allowed.

The 2008 Level I report identified 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. The District has chosen the Springer Main and Horse Creek Lateral Diversion to rehabilitate at this time.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced in the Rehabilitation Program to Level III status with an appropriation of $1,200,000 as a grant for materials only. The sponsor will provide the labor for construction of the project.

71. 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

PROJECT INFORMATION:

Previous Level II WWDC studies in 2002 and 1990 outlined significant improvement needs required of the Town of Granger's water system involving treatment, storage, transmission/supply and distribution. Owing to fiscal constraints upon the Town's resources, 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 of 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 Town's service area, thereby eliminating inadequate water pressures which are experienced in these areas.

Upon completion of the new tank, the existing tank will be taken out of services and repairs and recoating of the existing tank 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 having adequate storage to provide uninterrupted water service to the Town's residents. Work on the valves will be a future phase of the overall water system improvement program. Estimated costs of the tank phase of the improvements are $1,529,000.

The 2007 Legislature authorized a 67% WWDC grant for this project in the amount of $1,024,430. Match money has been secured with the Specific Purpose Excise Tax. Project documents were executed in late 2007.

During 2008 the Sponsor and engineering firm performed preliminary engineering and a geotechnical investigation to confirm the location of the storage tank at the preferred site. Negotiations for procurement of a permanent easement and access to the site were taking place at the end of 2008. Design of the tank is to start early in 2009 once the easements have been procured. Construction is anticipated to start in May 2009 with completion in the fall of 2009.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

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

LEVEL: State Water Plan
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 down stream pressures on water resources, making a plan update important and timely. A consultant was selected to complete the Green River Plan update in July 2007. The contract was initiated in August 2007 with a September 1, 2009 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 2007 and will be completed by June 2009.

The WWDO is proposing to continue 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, and on development of a decision support data system that will allow better water planning, management and administration.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends the study be incorporated into the New Development Program at Level I status with an appropriation of $250,000.

73. PROJECT: Green River-Rock Springs-Sweetwater County Master Plan

LEVEL: I
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

PROJECT DESCRIPTION:

The JPWB received funding in 2005 for developing an updated master plan that attempted to address the following items and concerns: 1) expand, update and calibrate the hydraulic model; 2) develop and calibrate the hydraulic model for extended period simulation capable of residual and

contaminant tracing; 3) examine the disinfection residual management within the system; 4) analyze pumping inefficiencies and storage issues; 5) provide system optimization and pressure zone analysis; 6) identify future service area and demands; and 7) prioritize system upgrades.

During the study the hydraulic modeling proved to be much more involved than what was expected. As a result the original scope of the project could not be completed for the initial appropriation. The 2007 legislature appropriated $220,000 to complete the Master Plan and to include an analysis of raw water supply to the existing water treatment plant, including ground water sources and raw water storage alternatives. The study is ongoing with developments in the hydraulic modeling, population projections, water service delineation, and water use projections. The study has generated two interim reports. One report focused on raw water supply alternatives to the existing water treatment plant, and the second report focused on the Reliance-area storage and transmission. These reports identified alternatives that were considered high priority during the master plan, so the Sponsor decided to request Level II funding for a new project to further study the alternatives. For further explanation see "Green River-Rock Springs-Sweetwater County JPWB Raw Water Supply Improvements". The Master Plan will be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

74. PROJECT: GR-RS -SC JPB Water Supplies

LEVEL: New Application
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

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. That study generated two interim reports in 2008; a raw water supply study, and the Reliance area storage and transmission study. These reports identified alternatives that were considered high priority, so the Sponsor is requesting Level II funding, this year, to further study the alternatives.

There are annual turbidity events on the Green River which exceed the treatment capability of the water treatment plant. When this happens the plant must be shut down and the area relies on the finished storage as their sole supply until the plant can begin treating water again. There also exists the potential for a river contamination event above the intake structure caused by a spill on Interstate 80 or the UP Railroad which would cause the plant to shut down. A raw water storage supply would allow the plant to keep treating water until the Green River water can again be diverted for treatment.

The master plan's model for the Reliance area showed that the water-supply tank is inadequately sized and at the end of its useful life. Development within the service area has been placed under a moratorium by the County due to inadequate fire protection. The model also showed the transmission system is undersized and requires modification to better use other storage in the system.

The JPWB is requesting grant funds to further investigate a raw water storage site to supply the water treatment plant, and a refined analysis, geotechnical investigation, and definition of alternatives for the Reliance area storage tank and transmission pipeline.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that a raw water re-regulating reservoir and a Reliance area storage and transmission study be included in the New Development Program at Level II status with an appropriation of $350,000.

75. 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	2009

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 of the canal.

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 repair of several safety problems on diversion structures, under drain replacements, repair of potential low bank washouts, and canal reshaping as identified by the Level II study. The 2005 estimated cost for this work was $200,000 with a 50/50 grant loan split at 6% interest for 20 years.

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 is being requested from the 2009 Legislature

RECOMMENDED LEGISLATIVE ACTION:
The WWDC is recommending an extension of the 2005 WWDC funding appropriation reversion date from July 1, 2009 to July 1, 2013. In addition it is recommended to increase the Level III appropriation by $150,000 along with a change of the grant/loan ratio from 50/50 to 67/33. The interest on the loan will be 4% and the term of the loan will be years.

76. PROJECT: Greybull Pipeline & 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	II	$475,000	2006
Level III	75	2008	II	$1,470,000*	2013

*67% Grant and 33% Loan

PROJECT INFORMATION:
The 2006 WWDC Greybull Well Rehabilitation Level II Study recommended pumping systems for two of the flowing wells (Shell Well No. 1 and Shell Well No. 3) supplying the Town of Greybull to increase source supply capacity. The study also included a comprehensive evaluation of the Greybull Water Transmission Pipeline (GWTP) that recommended key pressure control improvements for more efficient operation.

The Town has retained an engineer to design the pipeline improvement project and pump and controls at the Shell Well No. 3.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

77. PROJECT: Greybull Valley Dam and Reservoir

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	DueDate
Level III-I	28	1994	I	$3,000,000	2000
Level III	59	1996	I	$37,000,000	2000
Level III	88	2002/2005	I	-$7,942,542	2010

PROJECT INFORMATION:
The Greybull Valley Irrigation District serves 80,000 acres of irrigated land in Park and Big Horn Counties and has experienced severe water shortages for several years. The project includes a diversion dam on the Greybull River, a 4-mile supply canal, and an off-channel reservoir on a tributary of Roach Gulch, which is a tributary of the Greybull River downstream of Meeteetse. The reservoir has a capacity of 30,000 acre feet.

The design of this project was complete in 1998. Project construction started in the summer of 1998. The supply canal was complete in December of 1999 and the Dam was complete in the Spring of 2000. Lack of adequate runoff prohibited the complete first fill until 2005, and delayed the evaluation of the dam performance. A reduced budget has remained open, to correct deficiencies that typically arise during the initial phase of operations.

The first fill was completed in 2005. Evaluation of the dam took place in 2005. Some leakage and erosion were indentified. The extent and nature of repairs are being evaluated at this time.

The 2005 legislature approved extending the reversion date to 2010 and also approved extending the initial deferment period from five years to six years. The 2005 legislature also approved an extension of the deferment of accrual of interest and payment of principal and interest for one year.

The shoreline near the emergency spillway experienced some sloughing in 2006 and 2007. Engineers advised the District that several seasons of filling and drawing down the reservoir should occur before remedial activities are initiated. The sloughing has resulted in closing of a road that heretofore provided public access to the immediate area of the shoreline near the emergency spillway. A remedial program is anticipated to be underway in late 2008 early 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

78. 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 II	34	2004	I	Hold*	2006
Level II	99	2006	I	Hold*	2008
Level III	121	2007	I	476,000	2012

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 or the transmission requirements to get the generated power to users.

In 2003, the District Board liked the possibilities listed in the report. However with the change in leadership in the district and a problem with electrical transmission line capacity, the Board did not feel they were ready to pursue the project this year.

In 2004, the project was placed on hold status. The project was initiated in July 2001 and was completed May 2003.

In 2005, the FERC permitting problems were eliminated and the district will be ready to resume this project with a 2006 application.

In 2006, the District has 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 for transmission lines and the price they will receive for power they will opt to either pursue or cancel the project.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

79. **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 would like an interactive Geographic Information System (GIS) created and built for the district to use as a planning tool. The study would map the conveyance system, identify irrigated polygons, digitize land classification maps, identify repair needs of control structures, and prioritize maintenance and repair schedules.

This project is progressing on schedule and should be completed by spring 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

80. **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. Only one award could be made to a municipality. 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 ongoing drought, 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 $1,500,000.00 was appropriated for the program, the grant amount was raised to a maximum of $400,000.00 per entity, and the program was expanded to include water, water & sewer, and service & improvement districts. To maintain a program budget to meet anticipated needs the WWDC recommended, and the legislature approved, $1,000,000 in additional program funds be incorporated in 2005 and $500,000 in 2008.

CURRENT SPONSOR + ACTIVE/OBLIGATED FUNDS
City of Cheyenne/ Board of Public Utilities (Belvoir Ranch, Laramie County): $400,000
Town of Wamsutter (Sweetwater County): $22,500
City of Cheyenne/Board of Public Utilities (Managed ASR, Laramie County): $400,000
Squaw Creek Water District (Teton County): $125,000

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required

81. PROJECT: GVID Upper Sunshine Diversion – Phase I

LEVEL: II
SPONSOR: Greybull Valley Irrigation District
LOCATION: Big Horn County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	85	2007	II	$100,000	2008

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 dam was built in the 1930's, is critical to the delivery of water to the district, and is in serious need of rehabilitation.

As a result of the Level II study, the Greybull Valley Irrigation District has requested funds to replace the existing Upper Sunshine diversion which is approximately 70 years old and has had several issues related to operation and maintenance. The request is for designs/specifications, permitting/mitigation, and access/ROW for the diversion. Additional funding for construction of the diversion, approximately $3M, will be requested in the future.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced in the Rehabilitation Program to Level III-Phase I status with an appropriation of $300,000 to provide for the design, permitting and land acquisition for the project. The financing plan includes a 67% grant and a 33% loan with an interest rate of 4% and a term of 30 years. Upon completion of the Level III-Phase I activities, the sponsor will request construction funding of approximately $3M.

82. 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 (4%, 30 years)

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 exhibits damage and needs replaced. This project would replace the cast-in-place reinforced concrete pipe at the inlet as well as the concrete transition structure and a short distance of contiguous concrete lining in the canal up-canal from the inlet. The 2007 legislation provided design phase funding and the 2008 legislation provided construction phase funding.

The design work is complete. Construction of the inlet structure has begun and will be complete prior to the 2009 irrigation season.

When complete this project would provide a more reliable structure capable of many years of service.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

83. 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	III	$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.

Design work has begun and construction of one or two pipelines is anticipated to be complete prior to the 2009 irrigation season. The remaining work will likely take two more winter seasons to complete, being completed prior to the 2011 irrigation season.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

84. 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

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 at the top end of Boysen Reservoir. A gravity-pressurized system would serve approximately 2,200 acres and would conserve an estimated 7,000 acre-feet of water once flood irrigation is converted to sprinkler irrigation and conveyance efficiencies are increased. The study also included evaluation of re-regulation reservoir sites.

Midvale Irrigation District plans to rehabilitate the Hidden Valley conveyance system to continue their conservation program as specified in the WWDC Level II Report: Hidden Valley Pipeline Level II Feasibility Study, November 2003, with the installation of buried pipe to replace the existing Hidden Valley open lateral canal conveyance system.

The 2004 Legislature appropriated $1,474,703 to the Midvale Irrigation District as a 100% grant for the purchase of materials to install a buried piping system on the Hidden Valley lateral. 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, providing engineering design and the development of bid documents for the buried piping installation. This work was completed in late 2005. Initiation of construction activities are scheduled to begin in the spring 2006. The NRCS, by use of a contracted engineering firm, will also assist the District with construction oversight.

An October 2005 estimate based on list prices from pipe suppliers shows that material prices have risen as much as 100% from 2003 estimates. The District requested and received an increase to the 2004 appropriation in the amount of $1,495,440 to cover the increased material costs.

Construction of Phase I of the project was started in July 2006 and will be completed in 2007. Construction of Phase II, the final phase, was started in October 2006 and will be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

85. 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
*50% Grant & 50% Loan (6%, 30 years)					
Level III	75	2008	II	$808,050**	2012
**In-kind Services Grant $747,050, 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 intended 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 present project package, the District has requested that the project be converted to an “in-kind services” project. Under the “in-kind services” financial plan, the sponsor is responsible for costs associated with engineering services. Therefore, the sponsor has 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 this expenditure must not exceed $61,000.

The construction appropriation previously approved ($531,000) has been converted to "in-kind services" use, and an additional $216,050 has been added for a total of $747,050. This project is expected to be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

86. PROJECT: High Savery Reservoir
LEVEL: III
SPONSOR: State of Wyoming
LOCATION: Carbon County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	79	1988	I	$5,000,000*	1998
Level III	268	1989	I	$5,000,000	1998
Level III	89	1993	I	$20,400,000	2005
Level III	02	2001	I	$3,8000,000	2005

*$400,000 was allocated by statute to the Little Snake River Basin Planning Study.

PROJECT INFORMATION:
The Section 404 permit and record of decision for construction of the High Savery Project were issued December 20, 2000. The Bureau of Land Management issued the right-of ways for roads and facilities and the State Land and Investment Board granted a permanent easement for the dam and facilities in early 2001.

In 2001, construction began. Work continued with shut downs for winter until 2003. Substantial Completion was achieved on November 15, 2003. Due to low runoff in 2004, first fill was not completed until 2005. During the summer of 2005, a small number of items were identified requiring corrective action. These will be completed during the winter of 2005/2006 and early summer of 2006.

Initial releases were made on a trial basis during August and September 2005. These releases served several purposes including to verification of system functionality, and coordination between the WWDC and the Little Snake River conservancy district. These releases also served to draw down the level in the reservoir in anticipation of inflows in the spring of 2006. Water deliveries are anticipated in 2006. On August 30, 2005, the High Savery Dam and Reservoir was dedicated. Governor Freudenthal was the keynote speaker during the ceremony. Final project appurtenances were in place and the project was completed in 2006. During 2005 and 2006, the dam and reservoir were operated on a trial basis. Normal operation began in 2007. The WWDO is operating and maintaining the project.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required

87. PROJECT: Hopkins Producers Irrigation District Reservoir Study

Program: Dam and Reservoir
LEVEL: I
SPONSOR: Hopkins Producers Irrigation District
LOCATION: Johnson County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	85	2007	I	$100,000	2008

PROJECT INFORMATION:
The Hopkins Producers Irrigation District (District) would like to evaluate possible reservoir sites for storing water to address seasonal and annual water shortages, which would also provide protection against drought. Potential storage sites could be located in French Creek or in the North Fork of Clear Creek basins. These creeks are located northwest and west of Buffalo, Wyoming. The District holds water rights on both of these drainages. Secondary benefits of this project could include flood control, recreation, fish and wildlife enhancements etc. A watershed and water storage study was proposed by the Irrigation District. This study was completed this year. The sponsors for this project have agreed to combine this study with a proposed Clear Creek Watershed Study.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

88. 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

PROJECT INFORMATION:
This project consists of constructing a series of gravity pipelines to replace the existing open channel, Hopkins Irrigation Canal. The gravity pipeline incorporates turnouts to irrigate approximately 3,600 acres of grass and alfalfa and includes inlet structures to supply water to the pipeline. The pipeline project will conserve water that currently is lost through canal seepage. Additionally, the project will also increase water management efficiency through metering and telemetry systems, and rehabilitate erosion areas along the Hopkins Irrigation Canal. The project is currently under construction with an anticipated summer 2009 completion date.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

89. **PROJECT:** **Hudson Water Supply**
LEVEL: II
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

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 Town wells tested positive for Ground Water Under the Direct Influence of Surface Water.

To provide an adequate supply for treatment, 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. A new 250,000 gallon storage tank for the town will provide for already existing maximum/peaking demand shortfalls and for future system capacity requirements.

The Town of Hudson is forced into compliance by the EPA to "treat or else" because of its highly vulnerable alluvial well field. Together, a new well field and attendant storage capacity expansion will complement the new water treatment plant, providing a vastly improved system for the Town to meet EPA drinking water standards.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced in the New Development Program to Level III status with an appropriation of $1,520,000. The funding will be 67% grant and 33% loan at 4% with a 30 year term.

90. **PROJECT:** **Hudson Water System**
LEVEL: II
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	2009

PROJECT INFORMATION:
The Town of Hudson water system has been determined to be "groundwater under the direct influence of surface water". This determination was made after testing required by the EPA indicated the presence of micro-organisms normally associated with surface water. When a groundwater system is considered to be under surface water influence, the federal Surface Water Treatment Rules requirements are applied as the new standard that must be met. The Town, in

order to meet EPA requirements, may consider one of several options: 1) filtration combined with disinfection to remove 99% of micro-organisms, 2) perform watershed protection and source water monitoring or, 3) find an alternative source of safe drinking water by drilling a new well or connection with another public water system.

In September 2007, a test well was drilled 1.5 miles East of Hudson to determine the aquifer potential from the Wind River Formation and the underlying Fort Union Formation. Results were not favorable to meet the town's minimum quantity or quality requirements for an alternative source supply. In mid 2008, EPA demanded the town provide a safe drinking water supply by any means and the Town secured State Land and Investment emergency grants to build a water treatment plant. The WWDC efforts will be assisting the town in compliance with the EPA order by assisting in the replacement of the well field and construction of a new storage tank. It is anticipated the study will come to completion by early 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required

91. **PROJECT:** **Hyattville Water Supply**
LEVEL: III
SPONSOR: Hyattville Improvement & Service District
LOCATION: Big Horn County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	7	2002	I	$75,000	2004
Level II	34	2004	I	$600,000	2006
Level III	105	2006	I	$835,000	2010

PROJECT INFORMATION:
A Level II test well, completed in the Madison Formation aquifer, was drilled in fall 2005 as a production-size well for the Hyattville Improvement & Service District. The feasibility portion of the Level II study recommended new storage and transmission line to replace/rehabilitate the 35-year old system components and to facilitate connection to the new source supply well. However, after further evaluation of the hydraulic model of the proposed system, it was concluded that the storage tank would not be necessary. Therefore, the transmission pipeline will be connected directly to the well. The system will operate with well flow and pressure only.

A consulting engineering firm has been retained to design this system. Construction is anticipated to be complete in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

92. **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 their existing water supply system including their 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 meet potential demands within their boundaries where water is not currently available. The District is interested in regionalization opportunities due to their proximity to Green River and regionalization will be considered as an alternative in the study.

The consultant has spent time with the sponsor learning and mapping the system in G.I.S. This information will be used when they begin constructing the hydraulic model. A diver recently inspected the inside of the storage tank and is expected to provide a report of the tank's condition. This study will be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

93. PROJECT: Kaycee Storage and Transmission

LEVEL: III
SPONSOR: Town of Kaycee
LOCATION: Johnson
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	7	2002	I	$75,000	2004
Level III	105	2006	II	$2,350,000	2010

PROJECT INFORMATION:
Currently the town has a 200,000 gallon tank, located on the east side of town, supplied from the existing well 12 miles west of town. Water can circulate through the town's distribution system without ever reaching the tank and the only control is a questionable altitude valve. A second well is desired to meet maximum-day demand, which is pushing the limits of the existing well despite the town's implementation of water use restrictions.

The Level III project will construct a 300,000-gallon bolted steel water storage tank approximately 1½ miles west of town. The new tank will provide storage to meet the town's anticipated future maximum day demand. The project also includes constructing a new 12-inch water transmission pipeline from the storage tank to town.

The town is currently supplied water through a 6-inch transmission pipeline from a well field approximately 11-miles west of town. The transmission pipeline was originally constructed with approximately 55 air release/vacuum relief valves located at high points and approximately every 1,000 feet along the transmission pipeline. The project will also evaluate, and remove, air release/vacuum release valves that are not required and make necessary repairs to the remaining valves. The project will also repair the leaks to the pressure reducing valves reported in the Level II report and includes installing a new pump in Well No. 1, upgrading the existing chlorination equipment, and installing a new water storage tank at Well No. 1.

The project is anticipated to be completed by spring 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

94. **PROJECT:** **Kemmerer – Diamondville Master Plan**
LEVEL: II
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:
The Kemmerer – Diamondville community has experienced a population surge due to the local increase in energy exploration. 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 consultant is preparing a water master plan to aid in formulating the sponsor's long range planning objectives.

This project is progressing on schedule and should be completed by spring 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

95. **PROJECT:** **Kirby Creek Watershed Study**
LEVEL: I
SPONSOR: Hot Springs Conservation District
LOCATION: Hot Springs County
PROGRAM: New Development

PROJECT INFORMATION:
The Kirby Creek watershed, located northeast of Thermopolis, is approximately 128,605 acres with land ownership divided among federal (50%), private (38%), and state (12%), The watershed includes one primary river system, the main stem of Kirby Creek, and 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. Hot Springs Conservation District requests an updated watershed study to evaluate the effects of previous project implementation to current watershed function. Current condition of riparian areas within the drainage and an updated geomorphic classification is requested.

Also of interest is the development of an updated upland livestock and wildlife water management and rehabilitation plan. This information would provide baseline information from which the District can continue implementation of management practices that address the natural resource issues within the drainage.

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

96. **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	2009

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. Of interest is an evaluation of the potential for delivery system and on-farm water conservation opportunities, a review of current operations including water appropriation, water rights, and a determination of conveyance water loss. Also of interest is an evaluation of existing structures on the conveyance system, the potential to automate the delivery system, an evaluation of potential re-regulation reservoir alternatives, and the development of a comprehensive management and rehabilitation plan. Digital mapping of the system that would cover the main canals, laterals, and conveyance system structures is of value to the District. The report will be completed in the fall of 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

97. **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. A consulting engineering firm has been retained to design this system. It is projected that this project will be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

98. 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	2009

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 source. Incorporated in 1973, the town has relatively modern supply system components. At jeopardy however, is the intake gallery located in the sands and gravels of the Green River floodplain. Firstly, the U.S Environmental Protection Agency is presently scrutinizing the town's shallow ground water supply as potentially Groundwater Under the Direct Influence of Surface Water, therefore likely requiring enhanced surface water treatment. Secondly, the efficiency of the original infiltration gallery configuration to divert water upon demand has deteriorated to a critical state. Complicating these matters is the potential for increased population and resultant demand on the system because of economic growth in the Green River Basin surrounding development at Jonah, Pinedale Anticline, and expansion fields in this energy development region.

A Level II study approaches the above discussed issue by considering alternatives including deep ground water development to replace the existing source supply and relieve potential treatment costs. The study will also provide a basic master planning effort including system mapping, master meter testing, usage/demand/growth evaluation, feasibility of suggested system alternatives (including treatment and distribution), recommended alternatives, conceptual design, cost estimates, and funding opportunities.

In 2007 it was determined that the bedrock aquifer (Wasatch Formation) proximal to LaBarge would not meet the towns minimal needs for quantity and quality. A shallow TDEM resistivity survey conducted on the meander deposits of the Green River opposite Town reveals potential for alluvial ground water development. A borehole exploration program has progressed through 2008 to determine the occurrence of an alternate alluvial source within the bar deposits.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required

99. 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	2009

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 continue the seepage monitoring effort, 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 greatly 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.

Work was completed on Level II Phase II of the project 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. The district hired WWC Engineering to complete the recommended improvements. 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 assure that reliable water levels are available to document seepage conditions through the embankment materials, which provide record of changes that could occur at the facility. 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 scope of the shoreline stabilization effort changed significantly, to repairing the damaged embankment and protecting the embankment from future erosion damage. Consequently, the estimated associated costs for this task increased drastically, easily exceeding the entire project appropriation. The district has applied for additional funding for the project from 2009 Legislative Session funds. In the interim, the district has completed the fabrication and installation of a top grate on the tunnel outlet shaft and has approval for use of the current remaining appropriation for sediment excavation near the North Dam Intake Tunnel System. During the last few years, spring flows have been too low to remove sediment and debris from the intake. This has resulted in a build up of material that could potentially clog the intake structure. Sediment excavation is currently scheduled for 2009.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that additional Level III funds be appropriated in the amount of $1,265,000 to complete shoreline stabilization and embankment reconstruction. The recommended financing plan includes a 67% grant and a 33% loan with an interest rate of 4% and a term of 20 years. In addition, the WWDC is recommending special conditions that provides for the allocation of any revenues generated from any sales of water or the project.

100. PROJECT: Lance Creek Water Supply

LEVEL: New Application
SPONSOR: Lance Creek
LOCATION: Niobrara County
PROGRAM: New Development

PROJECT INFORMATION:
The sponsor is requesting a study to identify solutions to remove or reduce arsenic levels in their current water supply. This study would look at treatment alternatives available to reduce or remove arsenic, determine the feasibility and cost of each and provide comparisons. If necessary, a second phase would 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. The sponsor is also requesting a cost analysis of replacing their existing storage tank which is approximately 70 years old and has exceeded its useful life.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the New Development Program at Level I status with an appropriation of $100,000.

101. **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:

The City of Lander is presently dealing with the effects of an extended drought cycle. Diminished flows in the Middle Fork Popo Agie River, caused by a series of low snow pack years in the Wind River Range, are taxing the city's ability to meet demands and demand is increasing. Previous Level I and Level II studies explored the potential for developing supplemental and/or replacement shallow ground water sources. The effort stemmed from the EPA condemnation of the Middle Fork Popo Agie infiltration gallery which removed 2 MGD from the City's source supplies.

Present treatment, transmission, and storage components of the City's water supply system have recently been replaced, upgraded, and expanded respectively. Source supply options and distribution systems are deficient or need immediate attention. The City requested a master planning effort to assist in decision making for these critical components, which will be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action required.

102. **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	2008

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 is analyzing the current state of the aquifers in Laramie County, and preparing a database, a GIS coverage, a county wide ground water atlas and a decision support system to assist the County Commissioners in managing growth in the county.

The Consultant is currently completing the atlas and the decision support system. During the 2008 session this study's budget was increased by $25,000 for a surface water supplemental supply task. This task work is looking at surface water as a source to supplement groundwater shortages in Laramie County. It is expected the study will be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

103. 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

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 analysis, a design and cost analysis of an Archer governmental complex water system, and a well drilling component.

The 2006 Level II study drilled five test holes. The 500 well was tested and plugged, the 300 and 400 wells were completed as monitoring wells, and the 100 and 600 wells were completed as production size test wells. The 100 well was then leased to the County, for use by a lessee of the land, until the wells are purchased by the County. 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 a 67% Grant of $4,582,800 for Level III funding to drill one additional production grade well, complete the wells, and construct the piping and storage infrastructure for the complex. They would provide a 33% match of $2,257,200. 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 recommends only drilling a 401 production well to complete the supply portion of the project.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced in the New Development Program to Level III status with an appropriation of $201,000 which will be a grant for 67% of the eligible project costs. The County will provide the remaining 33% from other sources. They will also purchase four wells drilled during the Level II study for a price not to exceed 33% of the wells' actual construction costs.

104. 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

PROJECT INFORMATION:

The City of Laramie diverts water from the Laramie River and conveys it through the Pioneer Canal to the water treatment plant. Water loss from the canal accounts for approximately 30% of the city's 14.31 cfs surface water right. The Level III Phase I provides funding to design the pipeline from the Laramie River to the Water Treatment Plant that will eliminate the current conveyance losses and allow the City of Laramie to utilize their entire surface water right. The first phase of the Laramie Water Management Study identified that this project should be a priority for the city.

The city is currently in the process of selecting an engineering consultant. The city anticipates initiating the design phase of the project immediately following the consultant selection.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends appropriation of Level III construction funding of $6,850,000. The financing plan includes a 67% grant and a 33% loan over 30-years at 4% annual interest.

105. 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

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 Study Phase 1.

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 cities fire hydrants and water valves. This would allow them to calibrate their model and re-evaluate the future demand scenarios identified in the phase 1 portion of this study.

b. Field tests on 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 is requesting additional funding to complete the Aquifer Storage and Recovery Pilot Test for the Spur well field.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends an additional appropriation of $100,000 be added to the existing budget to facilitate permitting of the Laramie Water Management Phase II Aquifer Storage and Recovery Pilot Test.

106. 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	$650,000*	2008

*Material costs only

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. Easement and access issues significantly slowed the progress of installation of pipe by the district. The district believes that it has now resolved these issues. 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 and provided a revised estimate for rehabilitation costs totaling $1,130,000.

The 2003 Legislature authorized Level III funding for the lateral rehabilitation, providing for the reimbursement of project materials. The District continues to have difficulties in obtaining permanent and construction easements for laterals that are on Tribal and allotted lands of the Wind River Reservation. This has resulted in delays to the lateral rehabilitation construction throughout 2004, 2005, 2006 and 2007. It is anticipated that rehabilitation construction will be performed during the non-irrigation season following canal shut off in September for the years 2006, 2007 and 2008.

The District has requested a time extension to allow the completion of the project. The District has provided the design and easements for the project with their request. The time extension would be until 2012.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the reversion date for the appropriation be extended from July 1, 2008 to July 1, 2012 to allow for the completion of the project.

107. 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	$500,000*	2007
Level III	105	2006	I	$667,000**	2010
Level III	75	2008	I	$185,000	2013

* 60% grant, 40% Loan (6%, 25 years)
** 67% grant, 33% Loan (4%, 25 years)

PROJECT INFORMATION:
The 1999 Water Development Omnibus Construction legislation authorized $215,000 for the purpose of building from one to twelve small dams and reservoirs to improve range and grazing conditions in the area. The total estimated volume of water impounded by the twelve reservoirs would be approximately 2,636 acre-feet and will service a total area of 9,780 acres of rangeland. Construction of the 12 dams was initially estimated to be in the range of $2,254,650.

The district has been instrumental in substantially lowering the overall project costs by undertaking the securing of permits from the Corps of Engineers, the DEQ Water Quality Division, the State Engineers Office and the Bureau of Land Management. Since the original 12 sites were to be located on BLM lands, maintenance of the constructed dams and reservoirs is being assumed by the Bureau of Land Management under operating agreements between the BLM and the District. Maintenance of additional dams and reservoirs constructed on private property will be similarly handled under agreements between landowners and the District.

With the first appropriation of $215,000, design on three dams was completed along with the purchase of spillway piping, outlet and inlet materials for two dams and the construction of a single dam and reservoir. An additional $50,000 was included in the 2000 Water Development Omnibus Construction legislation to allow the completion of construction on the second dam and reservoir site. The cost for the design, construction and engineering inspection of the two dams and reservoirs is approximately $1,670 per acre-foot.

The 2002 Legislature authorized an additional $500,000 (60% grant/40% loan) to continue the design and construction of four additional dams and reservoirs from the original list of twelve dams and reservoirs identified as being economically viable and feasible to construct. The dams/reservoirs included: Brown's Hill 21, Garden Gulch 3, Garden Gulch 32, and Ketchum

Buttes 34. The Brown's Hill 21 dam and reservoir was substantially completed during the fall 2004 leaving $333,113.94 in the appropriation funding. Preliminary design was also completed on Garden Gulch 32 but it is not known if a Corps of Engineer's permit and BLM approval will be granted for this site. No additional dams were completed in 2005; since no permitting was obtained by the Sponsor during the year.

In 2005, 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. The three sites are Doty Mountain 5, Blue Gap 16 and Peach Orchard 34. 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 and reservoirs. The 2006 legislature authorized the additional funds of $167,000.

The Garden Gulch 32 (Deep Gulch) Reservoir was constructed during the summer of 2006 leaving a $202,629.48 in the appropriation funding. Preliminary design on future dams has not begun at this time. The District requested that Grieve Reservoir be added to the list of projects and that additional funding be added to the balance of remaining funds to cover design and construction costs. No construction activity on the Grieve Reservoir has occurred to date.

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

108. 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	2009

PROJECT INFORMATION:
The Savery-Little Snake River Water Conservancy District (District) and the Little Snake River Conservation District initially 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.

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. 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 project yield if it were available. Additional supplemental storage could potentially serve acreage beyond the District's membership. 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.

Although, the District feels that it is time to request a $15 million Level III appropriation to fund construction of Big Gulch dam and reservoir (the District's preferred alternative), which would initiate the environmental review mandated by the National Environmental Policy Act (NEPA), pertinent information could be obtained by conducting a much less expensive Level II study, without tying up $15 million of program funds prior to establishing the merits of a new project. Therefore, rather than provide the requested Level III appropriation, the WWDC recommended that the legislature appropriate funds for a Level II Study, which will also expedite the require NEPA evaluation. The recommended Level II study will focus on development of the purpose and need statement and further development of screening criteria used when comparing potential sites.

With construction of the High Savery Reservoir, the need for supplemental water has been reduced substantially in the Savery and Little Snake River drainages. Smaller sites may now become viable that were either dismissed or not evaluated because they could not meet demand prior to construction of High Savery. The sites anticipated for screening are located in the Savery Creek drainage, including Big Gulch dam site; and drainages upstream of the Little Snake River/Savery Creek confluence, which would include Battle Creek and other headwater tributaries, including the South Fork of the Little Snake River that would provide storage water to lands outside of the service area of High Savery Reservoir.

Quantifying the number and location of irrigated acres, accompanied by an estimate of the volume of supplemental irrigation water and municipal demands for water will be one of the first tasks undertaken in developing the "purpose and need statement." The study will also include hydrologic and geotechnical analyses to determine which project or combination of projects can meet the defined purposes or needs for the project. The study will also include preliminary cost estimates and an ability to pay analysis, which will allow the sponsor to determine whether they can commit to finance a proportionate share of the construction of the project and whether they can meet annual operation and maintenance obligations. This study is currently underway and is on schedule.

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

109. PROJECT: Lovell Rehabilitation 2009

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

PROJECT INFORMATION:
The Lovell Irrigation District received a SLIB grant of $41,790 to replace an earth ditch 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 is requesting financing from WWDC to purchase materials. The sponsor will fund the engineering, land rights, and permits, and will provide labor, equipment and other resources necessary to construct the project.

When complete this project will facilitate delivery of water and reduce seepage and evaporative losses in this segment.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the project be incorporated into the Rehabilitation Program at Level III status with an appropriation of $432,000. The financing plan includes a 100% grant to be used only for the purchase of invoiced materials. The sponsor is responsible for all other project costs.

110. 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

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 and do not have WWDC project eligible components.

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 potable water transmission lines. The total project budget is $1,940,000. This construction of project will be phased into the total system improvements.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

111. 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	II	$415,000*	2012

*67% grant, 33% loan (4%, 20 years)

PROJECT INFORMATION:
The Town of Lusk anticipated 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 offset and drill a new well in the vicinity of an idle municipal well (Town of Lusk No. 7 Well) to meet the increased water demands. In addition, the Town is requesting funds to replace and expand the existing supply component (wells and tanks) automated control system.

In 2008 the engineer designed the project and applied for water well permits. Construction of the project is anticipated to begin and be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

112. PROJECT: Manville Source Water Supply Study

LEVEL: II
SPONSOR: Town of Manville
LOCATION: Niobrara County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	15	1996	I	$112,483	
Level III	38	1998	I	$67,103	
Level II	85	2007	II	$90,000	2008

PROJECT DESCRIPTION:
Manville is a small Town of approximately 97 people located in the southwest corner of Niobrara County 17 miles west of Lusk. The original portion of the water system is over 90 years old. A master plan was completed for the Town in 1997. At that time the system met all water quality requirements. Since that time, the EPA has set a standard of 0.030 mg/L for Uranium. The Town's water quality has a Uranium level of approximately 0.036 mg/L and places it in violation of the EPA regulations. EPA's best available technologies list activated alumina, reverse osmosis, and ion exchange as possible options if suitable blending water can not be supplied. The Town requested an analysis of their source water options to bring their system back into EPA compliance.

The 2007 Level II project Consultant collected water quality samples and studied a reduced pumping program to determine the effects on the water quality.

The 2008 Level II report analyzed supply and treatment options for the Town. The report indicated that a reduced pumping program would have little effect on the Uranium in the system but there was a possibility of pumping low concentration water from an area just north of the Town. The only treatment option that appears feasible is the installation of individual Reverse Osmosis (RO) units in each house and business in town. (This treatment option does not fall under WWDC eligible funding options.) The Town also needs to increase the sizes and looped structures of the water mains in the system. The Town has asked for assistance in upgrading their 4^{th} and 5^{th} street mains and drilling a water well. To prepare for a Level III project, the Town needs to complete the installation of meters and establish the location, easements, and logistics of the proposed new well.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be delayed until the meters are installed and the logistics of installing a new well are completed.

113. PROJECT: Middle Piney Reservoir

LEVEL: II
SPONSOR: Middle Piney Water Users (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

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 have indicated they may be willing to pass ownership of the dam to another entity.

States West Water Resources Corporation was hired to complete an investigation of Middle Piney Dam and Reservoir in June of 2006. The purpose of the study was to determine the viability of local irrigators utilizing the dam for irrigation storage and potentially acquiring the reservoir from USFS. States West is currently finalizing their study and has made 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 Probably 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 addresses 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 site. 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 States West's study and are currently organizing to form a public entity.

RECOMMENDED LEGISLATIVE ACTION:
Due to the conditions of the existing dam, its inability to store water, and potential for breaching, the WWDO proposes continuation of the study under Dam and Reservoir Account III at Level II status with a new appropriation of $500,000. Initially, efforts will concentrate on 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 gauging, drilling and final geotechnical design, final engineering design and specification preparation, legal fees, and acquisition of access and right of way.

114. 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

PROJECT INFORMATION:
The Wyoming Water Development Commission, on behalf of the Midvale Irrigation District, conducted an extensive feasibility study from which rehabilitation needs on Midvale Irrigation District were identified and developed into a long range 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 within MID. 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. The intent is to return for construction funding when the design is complete. Although the study and district have made their best attempt to prioritize repairs, the precarious status of much of the delivery system may necessitate an emergency substitution of one element for another as the program progresses.

During 2008, the District had some personnel changes and determined that they would like to continue this project as a materials only 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 had not requested or received any funds for the project prior to their request.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the appropriation be decreased from $402,000 to $230,000 or $172,000. The WWDC further recommends that the financing plan be revised from a grant/loan to a grant for materials only with the sponsor being responsible for all other project costs.

115. PROJECT: Midvale Conservation Program

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

PROJECT INFORMATION:
The Midvale Irrigation District requested a Level II feasibility study to determine potential water savings that could be realized by converting the entire irrigation project to: (1) underground pipelines, (2) underground pipeline/canal lining combination, or (3) some other form of water conveyance improvements that would be more efficient than that currently in use.

This study includes a detailed inventory and assessment of structures/facilities currently in use, seepage and evaporation loss studies of all canals and laterals, proposed alternative methods to improve water conveyance, and estimated costs of such improvements. It is anticipated that improvements to this irrigation system are to be implemented over a 10 to 20 year time period as an ongoing construction effort that would optimize water conservation opportunities and minimize financial impacts to the District water users.

The Midvale Irrigation District, as a result of rehabilitation opportunities identified in the Level II Conservation Program and concurrent with the implementation timetable applied for a Level III construction project to automate existing facilities within the storage, diversion and conveyance system 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 operation waste of water by as much as 22,500 acre feet. The 2006 legislature authorized the funds of $542,700.

Work has started on the design of the project and a small project to replace gate stems in anticipation of automation has been started. During 2008, the District had some personnel changes and was focused on completing the Hidden Valley Project and therefore the project has not progressed as planned. The District has been contacted and it is anticipated the project will be reactivated in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

116. PROJECT: Mile-Hi Water Supply

LEVEL: II
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

PROJECT INFORMATION:
Residents along Zero Road (including Six Mile, Mile Hi, and Horseshoe Roads) located to the west of Mills, Wyoming 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 are interested in a stable water supply and wish 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 for the Mile-Hi I&S District. This study included service area delineation, current and projected water demands, conceptual designs, an environmental assessment, cost estimates and an economic analysis. The District is now requesting Level III construction funds for this pipeline project as they have 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 assessment for construction of the proposed water system, and approval for the Wyoming Office of State Lands & Investment Board (SLIB) loan needed for the project.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced in the New Development Program to Level III status with an appropriation of $1,015,360. The funding would be for a 67% grant and 16.5% loan at 4% interest for 30 years. The remainder of the project funding would be provided by the District through SLIB grants and loans.

117. 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 I	38	1992	I	$35,000	1992
Level II	74	1994	I	$225,000	1994
Level III	28	1994	I	$930,000*	1997
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

*67% grant, 33% loan (4%, 30 years)
**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 of Moorcroft constructed the new storage tank, system piping, and drilled a new Lance/Fox Hills test well. The WWDC completed the Madison test well in 2001 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 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 and construction are expected to start in 2009 and construction completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

118. PROJECT: Northern Arapaho Groundwater

LEVEL: Level II
SPONSOR: Joint Business Council of the Eastern Shoshone and Northern Arapaho Tribes / Northern Arapaho Tribal 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

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 of domestic water. In addition, existing ground water supplies in the Arapahoe service area and Industrial Park are insufficient to meet projected future demands.

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 requested for 2006 accommodated increased test drilling costs.

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 WWDC Northern Arapaho Level II test well into the existing NAU water supply system that serves the community of Ethete and surrounding area. Upon completion of the well in March 2007 however, it was determined that flows and water quality would not meet the minimum required for the sponsor's needs and the well was subsequently plugged and abandoned. In October 2007 the sponsor requested revocation of the Level III funding request.

Secondary source supply exploration is 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 could hold promise in its proximity to Ethete. The other alternative is the broad alluvial sand/gravel sequence identified in the valley of the Little Wind River (McGreevy, L.J., et al, 1969, Ground Water Resources of the Wind River Indian Reservation, Wyoming; USGS Water Supply Paper 1576-I). The tribe wishes to explore these alternatives in a second phase to augment the existing surface water source.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

119. 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	2009
Level III	121	2007	I	$165,000	2012

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

Funding for the project was approved by the 2005 legislature and design of improvements was begun. By the middle of 2006, it became apparent that the project could not be constructed with the funds available due to increased material costs. Hence, the Wright Water & Sewer District is requesting additional grant funds from WWDC. The total estimated project cost is $784,000.

The first phase of this projected was completed in 2008. The sponsor is currently preparing to enter the second phase of the project. Phase 2 of the project is anticipated to be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

120. PROJECT: Nowood River Watershed

LEVEL: New Application
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 received from the Dams and Reservoirs Program following the 2008 legislative session. The project is currently underway and is scheduled for completion by the end of 2009.

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

121. PROJECT: NW Rural Water Storage II

LEVEL: III
SPONSOR: Northwest Rural Water District
LOCATION: Park and Big Horn Counties
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	105	2006	I	$2,960,000*	2010

*67% grant, 33% loan (4.0%, 30 years)

PROJECT INFORMATION:
The project includes installation of water storage tanks for the Sage Creek and Cooper Lane service areas plus water storage and transmission pipelines to add the Garland area to the system. The Garland improvements will also provide redundant supply for the O'Donnell service area.

The proposed project will serve new customers in the Garland area and the additional storage will extend the time water is available to users during interruptions in supply.

Construction of this project should be complete in 2008 with reclamation likely to be complete in spring 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

122. PROJECT: Owl Creek Irrigation District Storage Study

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	123	2005	II	200,000	2007

PROJECT INFORMATION:
The Owl Creek Irrigation District is incorporated with the Wyoming Secretary of State's Office. The District's water supply is made up from a combination of Owl Creek direct flow water, storage water from Anchor Dam and pumped water from the Bighorn River. Owl Creek Irrigation District has three separate areas known as upper and middle serving 9,282 acres and Lucerne serving 3,997 acres. The upper and middle areas are dependent largely on direct flow supplies and storage from an active account in Anchor Dam of approximately 18,000 acre feet. The Lucerne area delivers pumped water from two lift stations through approximately 33 miles of conveyance system. The Level I study included a watershed evaluation of the Owl Creek drainage with emphasis on storage possibilities for the upper and middle areas and potential water conservation measures for Lucerne.

The Owl Creek Irrigation District requested the Wyoming Water Development Commission to conduct the Owl Creek Irrigation District Storage Supply, Level II, Phase II feasibility study. Gauging stations were installed in the South Fork of Owl Creek directly below Anchor Dam to further analyze seepage and evaporative losses in Anchor Reservoir and water conveyance. Also completed was a literature and information review of seismic and geophysical analyses of Anchor Reservoir, an analysis and evaluation of conveyance of water from South Fork of Owl Creek to North Fork of Owl Creek, and an evaluation of the feasibility of alternate reservoir sites recommended in the Owl Creek Master Plan, Level I study. This study has been completed and a final report was delivered in 2008.

123. PROJECT: Owl Creek 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:
Residents west of the Town of Thermopolis were interested in evaluating the potential of constructing a rural water system. The existing water supplies are poor quality wells or hauled water. A Level I report was completed in 2007 that recommended a water system with the Town of Thermopolis as the source. In 2007 the Residents formed a district and submitted an application for a Level II study. 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 their needs. The consultant has developed a map depicting those landowners who are interested in receiving water from the project. The consultant will begin to design the water system from this map. This study will be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

124. PROJECT: Pathfinder Modification Project

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

EXISTING LEGISLATION:
Funding for the settlement of the Nebraska v Wyoming lawsuit, which is described in Chapter 83, 2002 Session Laws, was obtained during the biennial state budgeting process and included funds for resolution of Platte River basin endangered species issues. This endangered species allocation is currently being used to finance engineering design and permitting activities relative to the Pathfinder Modification Project.

Construction funding ($8,500,000 from Water Account III) has been provided when the legislature approved Chapter 105, 2006 Session Laws, section 99-3-1105 of the Omnibus Water Bill, Construction. Construction will begin once needed state and federal permits and clearances are obtained.

PROJECT INFORMATION:
The Pathfinder Modification Project (PMP) is approved by Appendix F to the Final Settlement Stipulation for the Nebraska v. Wyoming law suit. The project would increase the existing capacity of Pathfinder Reservoir by 53,493 acre feet to recapture storage space lost to accumulated sediment. The modification would be accomplished by raising the elevation of the existing spillway by approximately 2.4 feet with the installation of an ogee crest. This increased capacity would be administered through two accounts, the "Environmental Account" and the "Wyoming Account."

The Environmental Account will consist of 33,493 acre feet of the proposed 53,493 acre foot enlargement and will be operated for the benefit of the endangered species and their habitat in Central Nebraska. Therefore, the storage water must be delivered to the State of Nebraska where it will be managed under the provisions of the Platte River Recovery Implementation Program (Program). Representatives from the State of Wyoming will monitor the use of the water in

Nebraska through their participation on Program committees. The Environmental Account is the state's contribution to the Program on behalf of its water users. This water contribution, as well as Wyoming's monetary contribution of six million dollars ($6M), will ensure that clearances required under the Endangered Species Act will be provided for existing uses and certain specified new uses.

The State of Wyoming has the exclusive right to contract with the Bureau of Reclamation (USBR) for the use of 20,000 acre feet of the enlargement capacity in a "Wyoming Account." The USBR, under contract with Wyoming, will operate the 20,000 acre feet of storage to provide an annual reliable yield of 9,600 acre feet. This is the same yield that was anticipated from the proposed Deer Creek Dam and Reservoir.

The "Wyoming Account" would serve the following purposes, in order of priority:

1. A supplemental water supply for Wyoming's municipalities during times of water rights regulation.
2. A replacement water supply to meet certain Wyoming obligations in the Nebraska v. Wyoming settlement agreement.
3. A replacement water supply to mitigate water use in excess of Wyoming's existing water related baselines defined in Wyoming's Depletions Plan.
4. An additional water supply for the Program under annual temporary water use agreements with the State of Wyoming. This is the purpose of the authorization described below in 2.

RECOMMENDED LEGISLATIVE ACTION:

The Wyoming Water Development Commission is recommending that the 2009 Legislature provide the following authorizations pursuant to W.S. 41-3-115 to allow the project function in the manner intended.

1. Authorization to the United States Bureau of Reclamation and the Wyoming Water Development Office to transfer a maximum of thirty-three thousand four hundred ninety-three (33,493) acre feet of storage water per year from the Environmental Account in Pathfinder Reservoir into the State of Nebraska for the purpose of providing regulatory certainty under the Endangered Species Act for the use of Wyoming water in the Platte River basin. This regulatory certainty will benefit water users throughout the Platte River basin in Wyoming.

2. Authorization to allow the Wyoming Water Development Office to transfer a maximum of nine thousand six hundred (9,600) acre feet of storage water per year from the Wyoming Account in Pathfinder Reservoir into the State of Nebraska through annual temporary water use agreements with the Platte River Recovery Implementation Program in years the storage water in the Wyoming Account is not needed for Wyoming's purposes. If these agreements are implemented, the State of Wyoming would be paid for the water by the Program. The proceeds would be used to help offset operation and maintenance costs.

125. **PROJECT:** **Pine Bluffs Deep Well 2009**
LEVEL: New Application
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	2010
Level III	90	2008	I	$110,240	2012

PROJECT INFORMATION:

The Town of Pine Bluffs has depended solely on ground water supplied from shallow wells completed in the Brule Member of the White River Formation. The complexity of the aquifer and its vulnerability to nearby agricultural land use has guided the town to seek potential alternative aquifer sources. A Lance aquifer well near Pine Bluffs (Lodgepole Valley Potatoes/Diamond Hill Farms well) has tested favorably for water quality and 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.

The municipal supply is derived from the same source as nearby irrigation wells. The Brule Member water table has declined over the past 10 years resulting in (i) municipal well water table levels drops of 5 to 30 feet, (ii) shut down of several wells, and (iii) reduction in yield from the remaining wells.

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. This project is recommended to receive a 67 % grant for the design, permit procurement, project land procurement, construction engineering, and construction of the project. The total project budget is $871,000.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends the project be funded with a grant of $583,570. This appropriation is a 67 % grant for eligible project costs. The sponsor will be responsible for the remaining 33% of the project costs.

126. 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	2010
Level III	90	2008	I	$110,240	2012

PROJECT INFORMATION:
The Town of Pine Bluffs has depended solely on ground water supplied from shallow wells completed in the Brule Member of the White River Formation. The complexity of the aquifer and its vulnerability to nearby agricultural land use has guided the town to seek potential alternative aquifer sources. A Lance aquifer well near Pine Bluffs (Lodgepole Valley Potatoes/Diamond Hill Farms well) has tested favorably for water quality and 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.

The 2004 two-year Level II study drilled a deep test well 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 with a 67% grant of $217,750 and a 33% loan of $107,250 for the design, permit procurement, project land procurement, construction engineering, and construction of the project. The Lance Fox Deep Well was designed in 2007 and incorporated into the municipal system in 2008.

During this design and construction process, the Town of Pine Bluffs has had two water supply wells lose production. This project was amended in 2008 to include the costs necessary to upgrade Well #8 and incorporate this well into the sponsor's municipal system. This brings the total estimated project costs to $540,000.

The sponsor is currently in the process of rehabilitating Well #8 and the project is anticipated to be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

127. 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 700 and 1700 feet deep. The deeper 1700 foot zone had poor quality and quantity and was sealed off. The upper 700 foot zone produced approximately 200 gallons per minute of acceptable quality water.

Due to this continuing static water level decline in the Town's wells, the Town requested a master plan to identify alternative water supply sources, study their storage and conveyance facilities, analyze usage rates, and suggest long term solutions for their water supply needs.

The 2008 Level I study is analyzing the Pine Bluffs water supply system and will produce a report in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

128. 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 final report is being written for the project and should be completed by the end of 2008. The master plan summarized previous studies, identified service areas - taking into consideration land use planning, determined water demand, evaluated the existing water supply, created a municipal GIS and a hydraulic model, and identified potential projects for Pinedale to improve their water supply system and accommodate responsible growth in areas in and around Pinedale. Two projects were considered a high enough priority that Pinedale will be seeking Level III funding for a new project from the 2009 Legislature. For further explanation see "Pinedale Pipelines – Phase I". The Pinedale Master Plan will be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

129. PROJECT: Pinedale Pipelines - Phase I

LEVEL: New Application
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 identified potential projects for Pinedale to improve their water supply system and accommodate responsible growth in areas in and around Pinedale. The highest priority project is the construction of a new ultra violet irradiation plant to comply with EPA water disinfection standards. This is not a project the WWDC can participate in; however, the next two highest priority projects identified were the Pinedale east, and Pinedale west, transmission lines. The Pinedale east transmission line project will replace one of the existing Town of Pinedale water supply transmission lines to increase water capacity, and improve water pressure and fire flow capability to that part of town. The west transmission line will connect two existing transmission lines to create a looped system which will improve water delivery, pressure, and fire flows to that part of town.

The Town of Pinedale is requesting a Level III grant/loan mix to complete the two projects identified during the master plan as priority projects.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends that the project be advanced in the New Development Program to Level III status with an appropriation of $7,900,000. The appropriation includes funds to construct the east transmission pipeline and design the west transmission pipeline. The financing plan includes a 67% grant and a 33% loan with an interest rate of 4% and a term of 30 years. The second phase of the project will include the construction of the west transmission pipeline.

130. **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	2009

PROJECT INFORMATION:

This study is to include system modeling and an evaluation of the current water system for the Town of Pine Haven 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. This study is has a completion date of 2009.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required at this time.

131. 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 (4.0%, 30 years)

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

In 2006, the sponsor executed the legal documents for this project and hired an engineer to design the project. In 2007 the sponsor acquired easements from the Bureau of Reclamation and private landowners. Construction is anticipated to begin and be completed in 2009. The proposed project will provide system redundancy, increase fire flows, and stabilize pressures.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

132. PROJECT: Pioneer Rehabilitation

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

PROJECT INFORMATION:
The Pioneer Water & Sewer District is a large rural water district located northwest of Casper, Wyoming 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 6 months due to age and corrosion (in spite of cathodic protection being installed with the line) which mandated significant repairs. This section of the line serves approximately half of the users on the Pioneer system, along with also serving as the sole transmission line for water supply to the 33 Mile Road Improvement & Service District. More than 200+ taps are affected by these supply issues. The District is interested in assessing system rehabilitation opportunities and costs through a Level II feasibility study.

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

133. PROJECT: Platte River Basin Plan

LEVEL: State Water Plan
SPONSOR: WWDC
LOCATION: Platte River Basin
PROGRAM: New Development

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 (Little Missouri, Belle Fourche, Cheyenne, Niobrara) 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.

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 ground water portion of the previous basin plan and to provide more detail on groundwater, the Water Development Office is proposing to conduct a detailed evaluation of the groundwater resources in the basin. The study will include analysis of groundwater use, storage and recharge for aquifers 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 $250,000.

134. PROJECT: Platte River Recovery Implementation Program

Level: N/A
Sponsor: State of Wyoming
Location: Platte River Basin
Program: Water Account I

EXISTING LEGISLATION

Purpose	Chapter	Session	Account	Appropriation	Due Date
N/A	99	2006	I	$6,000,000	2021

PROJECT DESCRIPTION:

On July 1, 1997 the Governors of Wyoming, Nebraska and Colorado and the Secretary of the Interior signed the "Cooperative Agreement for Platte River Research and Other Efforts Relating to Endangered Species Habitat Along the Central Platte River, Nebraska." The Endangered Species Act of 1973 (ESA) constrains all federal agencies from taking any action that may jeopardize the continued existence of an endangered species. If a federal agency is considering an action that may jeopardize a listed threatened or endangered species, Section 7 of the ESA requires that agency to consult with the U.S. Fish and Wildlife Service (USFWS). Federal actions that require consultation include, for example, issuing Section 404 Permits under the Clean Water Act, disbursing federal loans and grants, approving federal right-of-ways, leasing or acquisition of federal lands or minerals, contracting for water from U.S. Bureau of Reclamation water projects, and many others. Actions requiring such consultations are said to fall under the "federal nexus".

The issues facing the three states and the Department of Interior related to the endangered interior least tern, whooping crane, pallid sturgeon, and the threatened piping plover (the target species) and their federally mandated critical habitat in the Central Platte River basin in Nebraska. It was

clear without a cooperative program potentially burdensome individual consultations under the ESA would be required on past and future federal actions. The following list includes projects that would have been subjected to individual consultations without such a program:

1. North Platte River Projects (North Platte, Kendrick, and Glendo Projects)
2. Rangeland water developments on BLM lands
3. Livestock watering facilities on BLM lands
4. Hundreds of permitted projects on U.S Forest Service lands (ranging from municipal reservoirs, like the Cheyenne Stage I and II Projects, to diversions for irrigation)
5. Municipal water supplies for the cities of Cheyenne, Laramie, Rawlins, Sinclair, Rock River, Casper, Glenrock, Douglas, Torrington and others that have received federal funding through the Rural Economic and Community Development Program for water projects As previously noted, the receipt of federal funding is a federal action subject to consultation under the ESA.

The implications of the above table are that without a program; the USFWS would have been required by the ESA to use the individual consultations with water users requiring federal approvals in Wyoming, Colorado, and Nebraska. Under individual consultations, the USFWS would have required 417,000 acre feet of water and 29,000 acres of habitat. The results of the individual consultations on the federal reservoirs and other federal actions in Wyoming could greatly impact our historic use of water. The goal of the three states was to reduce the water and land requirements under a program in recognition of the value of the cooperation with the states.

Therefore, a Governance Committee, with representatives from the three states, federal government, environmental organizations, and water users developed the **Platte River Recovery Implementation Program** (Program). During the First Increment (13 years), the Program's objective is to retime and improve flows in the central Platte River to reduce shortages to USFWS target flows by an average of 130,000 to 150,000 acre-feet per year at Grand Island, Nebraska. Each of the three states is sponsoring a water supply project. In return, the USFWS has agreed to a cumulative three state credit of 80,000 acre-feet towards the First Increment's water supply goal of 130,000 to 150,000 acre-feet. The additional 50,000 to 70,000 acre-feet needed to realize the Program's First Increment water supply goal will come from those willing to construct new projects or from those willing to market available water supplies to the Program. During the First Increment, the Program's land related objective is to protect, restore, and maintain 10,000 acres of habitat.

The monetary cost for the First Increment of the Program is $187.14 Million. In addition to monetary contributions, the states contribute water and land to the Program. The total cost of the Program in terms of monetary, water and land contributions is $314.33 Million, shared equally between the United States and the three states (50% federal government and 50% states). Wyoming's monetary share is $6 million. Wyoming will also contribute storage water on behalf of its Platte River Basin water users from the Pathfinder Modification Project's environmental account.

The Program began on January 1, 2007. The Governance Committee is working toward managing certain land and water resources following the principals of adaptive management to provide benefits for the endangered interior least tern, whooping crane, pallid sturgeon, and the threatened piping plover (the target species). In return, the Program is providing Endangered

Species Act (ESA 16 U.S.C.§§ 1531-1544) compliance for water users in the Platte River basin upstream of the confluence of the Loup River with the Platte River. The Program is serving to resolve conflicts between the administration of the ESA and water use in the Platte River basin that have occurred since the late 1970's.

The Program has three main elements: (1) increasing stream flow in the central Platte River during relevant time periods through water conservation/supply projects; (2) enhancing, restoring and protecting habitat lands for the target bird species; and (3) accommodating existing and certain new water related activities. The Program will achieve these elements through an adaptive management approach employing scientific monitoring and research to determine the most efficient management actions to meet habitat needs.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

135. PROJECT: Poison Spider Pipelines

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

PROJECT INFORMATION:
The District's potable water delivery system was constructed in the late 1960's and initially served about 25 customers. It consisted of approximately twelve miles of buried pipelines. Because of the vast size and topographic diversity of the District service area, and to reduce costs, the delivery system was constructed of small diameter, (four-inch diameter and smaller), thin walled plastic piping. In order to ensure a reliable flow to all customers, each user was provided with a "dole valve" which regulated the flow of water to about one half gallon per minute to each customer. Because of the low flow capability of the delivery system, it was necessary for each user to construct a buried cistern to store water on the home owner's property. A pumping system consisting of a pump and pressure tank was used to deliver the water from the cistern to the house plumbing in the quantity and pressure required by the home owner.

Much of the current water delivery system is 40 years old. It was constructed of thin-walled, small diameter piping that was relatively new to the industry at that time. The pressures in the delivery system range from 60 to 150 pounds per square inch (psi). The system has been experiencing increasing leaks and failures, and increasing 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 EPA has expressed concerns for many years that the cisterns serve to contaminate the water and should be eliminated. However, because of the limited capacity of the old delivery system, the cisterns are necessary in providing for flow equalization throughout the system.

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

136. **Project:** **Powell Airport Water Supply**
LEVEL: New Application
SPONSOR: City Powell
LOCATION: Park County
PROGRAM: New Development

PROJECT DESCTIPTION:
The City of Powell would like a Level I study to determine how a more appropriate water supply could be acquired for the Powell Municipal Airport, and potentially for nearby 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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the New Development Program at Level I status with an appropriation of $50,000.

137. **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

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 in this area of the city. The plans and specifications are being developed.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

138. **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	2008

Level III	147	2005	II	$ 41,500	2008
Level III	105	2006	II	$ 100,500	2010
Level III	121	2007	II	$ 500,000	2012

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 would like to drill another well and provide additional storage.

The community formed their district in 1998, and a Level II evaluation was completed. The 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, as a 67% grant and 33% loan, 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 along with the construction completion of the 200,000 gallon concrete storage tank. Final project completion is scheduled for spring of 2009.

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

139. 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	60-3	1983	II	$146,309	
Level III	166	1983	I	$53,201	
Level II	52-4	1984	I	$187,896	
Level IV	19	1984	II	$55,722	
Level III	228-9	1985	I	$800,000	
Level IV	95/268	86/89	I	$7,550,939	
Level II	46	1997	I	$118,463	
Level III	38	1998	II	$3,557,233	
Level II	75	2005	I	$150,000	
Level II	85	2007	I	$100,000	2008
Level III	121	2007	II	$1,727,930	2012
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 2008 Level I project is analyzing the Rawlins water supply system. The report will be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

140. PROJECT: Rawlins Reservoir and Pipeline-Phase I

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	I	$150,000	2006
Level II	85	2007	I	$100,000	2008

PROJECT INFORMATION:
A Level II study was completed for the City of Rawlins (City) to better define plans and determine the feasibility for construction of a second raw water peaking reservoir. The best location will be adjacent to the existing raw water storage reservoir. The drought over the past few years has pointed out the need for additional raw water storage. Although the City has some excellent water rights, some of their rights are junior to other users. During the drought and calls on the North Platte River, the town has had to accommodate senior users. This has occurred on several occasions over the last few years. However, during most of the year water is available and by using a peaking reservoir near the water treatment plant (WTP), Rawlins can store water when it is available. The City uses water from the Sage Creek Springs, the Miller Hill Wells, and the Platte River Pipeline. Locating the reservoir near the WTP provides the flexibility to store water from any of the various sources.

Results from the 2006 final report indicated that the existing Atlantic Rim Reservoir should not be expanded due to geotechnical issues. Preliminary designs and cost estimates for the Peaking Reservoir II site have been completed, but preliminary designs and cost estimates for the 5 Mile Reservoir site could not be completed due to access problems. In addition, the existing pipeline between Atlantic Rim Reservoir and the WTP needs further evaluation in order to determine its usefulness for delivering water to the City's treatment plant.

The City asked (7/26/06) the WWDC to fund a Level II, Phase II study continued to better define options, designs, feasibility and parameters for construction of a second raw water reservoir. This study was completed this year and the sponsor has requested a Level III Project. However, due to competition for Water Development Program funds, the construction project will be phased. The first phase will focus upon completion of engineering design and permitting activities.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the New Development Program at Level III-Phase I status with an appropriation of $1,300,000 to finance engineering design and permitting efforts. The financing plan includes a 67% grant and a 33% loan with an interest rate of 4% and a term of 30 years. Upon completion of the design and permitting activities, construction funding of approximately $16.5M will be requested.

141. PROJECT: Rawlins Treated Water Tank Rehabilitation

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	121	2007	II	$1,727,930*	2012

*67% Grant Only

PROJECT INFORMATION:
The City of Rawlins has four tanks that include the following: 3.0 Million Gallon Tank (Painted Hills Tank); 1.8 Million Gallon Tank (Hospital Tank); and two 7.5 Million Gallon Tanks (Tank Farm Tanks)

Three of the four tanks were inspected and both the Painted Hills and the Hospital tanks have deteriorated such that rehabilitation is necessary to maintain the integrity of the tanks. The Painted Hills and Hospital tanks are the only two tanks proposed for this project. Both tanks have also experienced structural damage as a result of ice movement within the tank. The Painted Hills tank has structural damage to the roof support columns that required the City to make immediate repairs. The Painted Hills and Hospital tanks were built in the late 1970's and early 1980's and have not had received any prior rehabilitation work. The previous inspection from 1997 showed the Painted Hill tank in good condition with some corrosion and paint de-lamination. A recent investigation was done on the two Tank Farm tanks and it was determined they can be rehabilitated at a later date. The city has obtained the services of a consultant and the design was completed. The project was under construction by mid summer 2008. Construction should be completed early in the spring of 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

142. PROJECT: Red Lane Master Plan

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

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 have requested a Master Plan to evaluate the condition of their water system and to provide a plan for the future needs of the district.

RECOMMENDED LEGISLATIVE ACTION

The WWDC recommends that the project be incorporated into the Rehabilitation Program at Level I status with an appropriation of $65,000.

143. PROJECT: Riverton Raw Water Supply Rehabilitation

LEVEL: III
SPONSOR: City of Riverton
LOCATION: Fremont County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	46	1997	I	$150,000	1998
Level II	81	1999	I	$65,000	2000
Level III	2	2001	II	$85,000	2005
Level III	118	2004	II	$1,001,500	2010

PROJECT DESCRIPTION:

This project proposal came from recommendations described in the WWDC Level II Riverton Water Supply Study completed in June of 2000. The municipal and residential raw water distribution system within the City of Riverton is an offshoot of surrounding agricultural irrigation systems. The responsibility for operations and maintenance of the ditches, pipes, and laterals comprising the system was assumed by the sponsor several years ago.

The system serves approximately 200 paying customers ($98.00/user/year), but actual users are estimated to be upwards of 400, and potentially 790 users could be served by an expanded, rehabilitated system.

Preservation and expansion of the system would extend the life-span of the City of Riverton's water treatment plant since the present-day use of the irrigation system is estimated at 400,000 gallons/day.

Two laterals that are proposed for rehabilitation are primary laterals for Riverton Valley Irrigation District and LeClair Irrigation District that deliver water to irrigators downstream of the city of Riverton system. The sponsor retained an engineering firm to design this project.

In 2001, the project received $85,000 for design services only. In 2004, additional grant funds of $1,001,500 appropriated to pay 50% of project eligible costs with the remaining funds from other sources. In 2008, the City of Riverton advised that it was pursuing the project through landowner participation and repaid the WWDC for design expenditures from the appropriation.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the reversion date for the project appropriations be revised to July 1, 2009 to allow the funds to revert back to water development account no. II.

144. PROJECT: Riverton Valley Rehabilitation 2009

LEVEL: New Application
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

PROJECT INFORMATION:
The district has complete the 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".

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the Rehabilitation Program at Level III status with an appropriation of $79,000.00. The proposed financing plan is a grant for materials only. The sponsor is responsible for all other project costs.

145. PROJECT: Riverton Water Supply

LEVEL: II
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

PROJECT INFORMATION:
The City of Riverton identified a need for expanded capacity on the eastern side of town. During the most recent Level II study, the WWDC drilled a test well to be used 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. This request for funding is to meet the first of two phases to address the needs of Riverton.

The City of Riverton is seeking funding to construct a 2 million gallon storage tank, purchase a test well drilled under a level II study in 2007, and connect the well and tank to the distribution system.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced to Level III status in the New Development Program with an appropriation of $4,958,800. The financial plan includes a 67% grant and a 10% loan with an interest rate of 4% and a term of 30 years. The sponsor will pay the remaining 23% of the project costs.

146. 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

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 replace or subordinate 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 an area about 3 miles east of town. 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.

A municipal well field prospect for the Town of Saratoga has been identified on USDI – Bureau of Land Management lands approximately 4 miles ENE of Town, and was tested in a WWDC Level II exploratory drilling program. Based on favorable results for production potential and water quality from the North Park Formation aquifer, the sponsor wishes to approach development and construction of a well field and transmission lines in a phased manner. The first phase (year) of Level III activity was for design, permitting, and right-of-way acquisition for the

project. The first phase was completed in late 2007 and the sponsor was ready for the second phase including well field build-out and construction of transmission lines. The 2008 Legislature funded the second phase and the construction started in mid 2008. The project will be completed by mid 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

147. PROJECT: SEO/Lusk Area Ground Water

LEVEL: I
SPONSOR: Wyoming State Engineer's Office
LOCATION: Niobrara County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	85	2007	I	$200,000	2009

PROJECT INFORMATION:
In January of 2005, 28 irrigator/landowners from southeast Niobrara County petitioned the Wyoming State Board of Control [BOC] to establish a ground water control area to govern future irrigation wells/irrigated lands "from the breaks north of Lusk to the Goshen County Line and from the Nebraska State line to Highway 270 south of Manville". This described area of approximately 650 square miles is dominantly underlain by the Arikaree Formation aquifer and is the principal source of ground water utilized for crop irrigation and municipal supplies.

A control area is an underground water district that has been so designated by the BOC. In accordance with Wyoming Statute §41-3-912, *"Control Areas; board member districts; designation; redesignation; duty of state engineer; hearings"*, The BOC may designate a control area for the following reasons:

- The use of underground water is approaching a use equal to the current recharge rate;
- Ground water levels are declining or have declined excessively;
- Conflicts between water users are occurring or are foreseeable;
- The waste of water is occurring or may occur; or
- Other conditions exist or may arise that require regulation for the protection of the public interest.

There are presently three control areas established in Wyoming, all three located in the southeastern quadrant of the state. Those are comprised of the Laramie County Control area, occupying the entire eastern half of Laramie County; the Platte County Control Area centered at the Town of Wheatland; and the Prairie Center Control Area in northern Goshen County.

The State Engineer's Office [SEO] responded to Lusk area petitioners stating that insufficient hydro-geologic data was available to make an informed decision whether or not a control area should be formed. The SEO requested WWDC funds for a study that would adequately inform the State Engineer in reporting to the BOC whether the ground water resource developed in this region should see additional protection under a control area designation. The study will be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

148. 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 provided an inventory and description of the watershed to include basic hydrology and stream geomorphology. This project also identified 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 was conducted to create a rehabilitation plan which would allow for a systematic approach to replacing the many aging structures on the ditches and laterals.

The final report is expected in early 2009.

RECOMMENDED LEGISLATIVE ACTION:
No further legislative action is required.

149. 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

PROJECT INFORMATION:
In October 2002, HKM Engineering completed a Level II study referred to as the Sheridan Hydropower Study. 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 separated 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 this year.

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.

Currently, the sponsor has secured the services of an engineer and will the project should start construction in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

150. PROJECT: Sheridan Northwest & Sheridan 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

PROJECT INFORMATION:

Sheridan Northwest Tank
In December 2005, HKM Engineering completed a Level II study 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 need.

In 2007, Sheridan was approved for funding for 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.

The Northwest Tank is in the final design stages and should start construction in 2009.

Sheridan Big Goose Tank
In October 2002, HKM Engineering completed a Level II study referred to as the Sheridan Hydropower Study. It covered needs within the Big Goose Valley.

In 2007, Sheridan was approved for funding for a new 1.5 million gallon treated storage tank near the Big Goose Water Treatment Plant.

The Big Goose Tank is anticipated to the project will be design and constructed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

151. PROJECT: Sheridan Supplemental Storage

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

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

The City is interested in developing storage of 2,000 acre-feet or larger, which would meet the minimum size criterion for new storage funded by the Water Development Account III (Dam and Reservoir Account). Although Water Development Account III is limited to funding new dams and reservoir of at least 2,000 acre-feet in capacity, the study should look at smaller capacity sites that would benefit the City and/or the Sheridan Area Water Supply System (SAWS). Smaller sites that prove feasible may be funded by Water Account I.

The engineering scope of services will also include reservoir hydrology, an analysis of water rights, and a conservation component, which is required by the Federal Government during the NEPA review for those projects that fall under a "federal nexus." 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:
The Wyoming Water Development Commission recommends that the project be incorporated into the Dam and Reservoir Program at Level II status with an appropriation of $350,000.

152. 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 location 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 concrete structure. In addition the sponsor is requesting financing to replace approximately 35,572 feet of open ditch on six laterals with pipe. 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.

The sponsor completed construction on the Eagle Nest Creek Crossing and Spillway as well as laterals 4C, 2W, and 24F prior to the 2008 irrigation season. Construction of laterals D, 6S, and 9S has begun with completion of the project scheduled in 2009. When complete, this project will provide a more reliable structure at Eagle Nest Creek and replace almost seven 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.

153. PROJECT: Shoshone Municipal Pipeline-2009

LEVEL: New Application
SPONSOR: Shoshone Municipal Water Joint Powers Board
LOCATION: Park County
PROGRAM: New Development

PROJECT INFORMATION:
The Shoshone Municipal Water Joint Powers Board treats surface water from the Buffalo Bill Reservoir and then 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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the New Development Program at Level III status with an appropriation of $2,428,800 as a 33% grant. The sponsor will provide 17% of the project costs and WYDOT will provide the remaining 50% of the required budget.

154. PROJECT: Shoshone Rehab and GIS

LEVEL: II
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

PROJECT INFORMATION:
Shoshone Irrigation District has had ongoing problems with aging concrete control structures, a lack of structure inventory and analysis, as well as a fragmentation of irrigated lands. During this project, the Consultant created a digital map with a fully integrated GIS that will assist in the long term planning and management of the conveyance system and control structures. This involved mapping the main canals and laterals and each structure, along with condition estimates. These were placed into a database to allow the District to modernize their maintenance schedules as well as create a dynamic, updateable map of the District.

This project is complete. Delivery of the final report is expected in December 2008.

RECOMMENDED LEGISLATIVE ACTION:
No further legislative action is required.

155. PROJECT: Shoshone Rehabilitation 2009

LEVEL: II
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

PROJECT INFORMATION:
The sponsor has completed a GIS and Master Plan study and is continuing to 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. The sponsor is requesting financing from WWDC 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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced in the Rehabilitation Program to Level III status with an appropriation of $339,000. The financing plan includes a 100% grant to be used only for the purchase of invoiced materials as approved by the WWDC.

156. PROJECT: Shoshone Utilities Ground Water Development

LEVEL: Level II
SPONSOR: Joint Business Council of the Eastern Shoshone and Northern Arapaho Tribes
LOCATION: Fremont County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	34	2004	I	$850,000	2006
Level II	85	2007	I	$600,000	2009

PROJECT DESCRIPTION:
The Fort Washakie and Boulder Flats water systems, operated by the Shoshone Utility Organization (SUO), 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 Shoshone Utilities unable to divert enough water to meet domestic water needs. High turbidities during runoff and after the South Fork II fire (June 2002) caused significant problems for Shoshone Utilities, 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 acquired in 2007 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 meets the needs of the SUO for a ground water supplementary supply. In 2007, Level III funds were appropriated for the well to be tied into the system. The Level II Project final report was delivered in December of 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

157. 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

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. Low flows due to irrigation demands in the summer and natural low flows in the winter often left SUO unable to divert enough water to meet

domestic water needs. High turbidities during runoff and after the South Fork II fire (June 2002) 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 meets the needs of the SUO for a ground water supplementary supply. In 2007, Level III funds were appropriated for the well to be tied into the system. It is anticipated the Level II report will be delivered in early 2008.

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 project agreements where completed in the fall of 2007 and the design was started in early 2008 with construction to begin in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

158. 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

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 desires to remedy this situation. The pipeline will include several farm turnouts. Conversion to pipe will facilitate delivery to the end of the pipe and to users along the pipeline.

In 2008, the project was authorized with an appropriation of $405,000, which was 67% grant and 33% loan. In lieu of that funding, the sponsor is requesting financing from WWDC of 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 consideration. The new appropriation would be $295,000. There were no legal documents executed and no disbursements of project funds made under the previous appropriation.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the original Level III appropriation of $405,000, consisting of a 67% grant of $271,350 and a 33% loan of $133,650 for 33% be changed to a grant of $295,000 for 100% of the purchase of invoiced materials. The sponsor is responsible for financing of any other project expenses. With the change in the amount appropriated, there will be a reversion of $110,000 to the water development account.

159. PROJECT: Small Water Project Program
LEVEL: III
SPONSOR: State
LOCATION: Statewide
PROGRAM: New Development/Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Small Projects	88	2002	I & II	$1,000,000	N/A
Small Projects	118	2004	I & II	$1,500,000	N/A
Small Projects	114	2005	I & II	$1,000,000	N/A

PROJECT INFORMATION:
The purpose of the Small Water Project Program (SWPP) is to participate with land management agencies and sponsoring entities in providing incentives for improving watershed condition and function. Projects eligible for SWPP grant funding assistance include the construction or rehabilitation of small reservoirs, wells, pipelines and conveyance facilities, springs, solar platforms, irrigation works, windmills and wetland developments. Projects should improve watershed condition and function and provide benefit for wildlife, livestock and the environment. Projects may provide improved water quality, riparian habitat, habitat for fish and wildlife and address environmental concerns by providing water supplies to support plant and animal species or serve to improve natural resource conditions. Small water program projects must provide multiple benefits for a total estimated cost of less than $100,000 per project.

Approximately 52% of all projects approved are on public lands, 22% on public/private land with joint benefit, and 26% on private lands. Wells and pipelines account for 42% of small water program project activities, 28% stock ponds or small reservoirs, and approximately 30% of small water program project activities are spring developments, irrigation conveyance improvements, or solar pumping platforms.

There have been 130 small water program projects approved by the Water Development Commission. Projects completed through 2008 account for 53% of those approved, to be completed 39%, and expired projects account for only 8% of all projects approved.

Project activities completed through 2008 were 34 wells, 764,761 feet of pipeline, 23 storage tanks, 211 stock tanks, 12 spring developments, and 19 stock ponds with a total of 168,525 cubic yards of fill moved. These projects provided conservation on approximately 449,161 acres and have a total value of $2,686,341.64.

Project activities approved but yet to be completed are 22 wells, 176,328 feet of pipeline, 3 storage tanks, 116 stock tanks, 15 spring developments, 18 stock ponds with an estimated 57,314 cubic yards of fill to be moved, 20 solar platforms, 16 windmills, and 3 wetland developments. These projects will provide conservation on approximately 296,248 acres and have a total value of $1,366,123.50.

With the completion of all projects, the SWPP will have contributed financial assistance on 56 wells, 941,089 feet of pipeline, 26 storage tanks, 327 stock tanks, 27 spring developments, 37 stock ponds requiring 225,839 cubic yards of fill moved, 20 solar platforms, 16 windmills, and 3 wetland developments. This program will have provided conservation on approximately 745,409 acres and will represent $4,052,464 in total project value. The total investment in conservation activities amortized over an estimated 25 year project life amounts to approximately $.22 annual investment per acre treated.

The 2006 Legislature placed a hold on authorization of any new small water projects as of July 1, 2006. The 2007 Legislature reauthorized the small water project program until 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*
Coal Gulch Grade Control/Diversion*
Vineyard Ranch Small Water Project*
Little Jack Res., South Flat Top*
Irvine 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	

*Projects completed or expired as of 12/31/08

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

160. 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 being common. The Plastic Irrigation Pipe that was installed to provide water to the district is rated for a thirty year lifespan. 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

Water from the shared flowing well is used by the Improvement and Service District for domestic water needs and for 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 has requested a study to analyze their system and determine what improvements are necessary. In anticipation of a construction project, the district recently quadrupled their water rates. They have also started the process of metering the system to help with billing and to meet WWDC requirements. The sponsor was prepared to install meters this year if required, however we suggested they wait until the completion of the Master Plan to make sure they were installing the correct meters for their system.

RECOMMENDED LEGISLATIVE ACTION
No legislative action required at this time.

161. 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

A Level I study was completed in August 2007 for the District. In the Level I study, several issues of concern were found and four alternatives were identified to resolve these issues. Currently, the District receives wholesale water from the City of Thermopolis, and has a storage tank and distribution system in place. The preferred alternative suggests continuing with the current arrangement with system improvements, and suggests moving the existing storage tank to a higher elevation to provide better water pressure to users. The level II consultant is preparing detailed cost estimates, and developing conceptual designs for the recommended improvements. The level II study will also include an economic analysis to aid in preparation of a water rate structure to finance construction costs.

This project is progressing on schedule and completion is expected in spring 2009.

RECOMMENDED LEGISLATIVE ACTION:

No further legislative action is required.

162. PROJECT: Sponsor's Inflation Funds

Level: III
Sponsor: Qualifying Level III sponsors
Location: Statewide
Programs: New Development and Rehabilitation

EXISTING LEGISLATION

Purpose	Chapter	Session	Account	Appropriation	Due Date
III	99	2006	I	$2,000,000	2010
III	99	2006	II	$ 500,000	2010
III	56	2008	II	$ 500,000	2013

PROJECT DESCRIPTION:

These funds provide supplemental funding for existing Level III construction projects when construction budgets are insufficient due to inflation and the rapid increase in materials costs.

The funds are used after construction bids are received and when it is apparent that there are not enough funds in the existing Level III appropriation to award the project. The availability of these funds allows for the award of the construction contract without delays. The purpose of the fund is to avoid delays and increased costs due to inflation. Use of funds in this account must be approved by the WWDC.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

163. PROJECT: Squaw Creek Well Field

LEVEL: III
SPONSOR: Squaw Creek Water District
LOCATION: Teton
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	105	2006	I	$177,550	2010

PROJECT DESCRIPTION:
The Squaw Creek Water District (SQWD) includes approximately 540 acres of land located in Section 35 T40N R116W, 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.

The district received WWDC funding for groundwater exploration. Late in 2005 the district applied for Level III funding to enable them to bring their 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 so the completion/connection work could not take place.

There is time remaining to allow the sponsor to utilize the funding provided a useable well can be developed. Reevaluation of the development of a new well and or spring source was considered during the 2007 construction season. In August 2007, a $30,000 increase to a groundwater grant was made to allow drilling of a second well. The district also agreed at that time to undertake on its own the redevelopment of one of the existing wells on Squaw Creek.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

164. PROJECT: Star Valley Ranch Groundwater

LEVEL: II
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

PROJECT INFORMATION:
Based on findings and recommendations from the Level I study for the Star Valley Ranch, a Level II study was implemented. This study included test drilling to find a suitable groundwater source for the Town, as well as to provide a refinement of conceptual cost estimates for distribution system upgrades and storage needs.

The groundwater exploration program was successful. The final report will be completed in early 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

165. PROJECT: Star Valley Ranch Water Supply

LEVEL: II
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

PROJECT INFORMATION:
Star Valley Ranch (SVR) is the Wyoming's newest municipality and has very little existing infrastructure that is actually owned by the Town. 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 and a new transmission line. This request for funding is to meet the first of two phases to address the needs of SVR.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced in the New Development Program to Level III status with an appropriation of $2,620,000. The financing plan includes a 67% grant and 33% loan with an interest rate of 4% and a term of 30 years. The sponsor will purchase the Level II well from the WWDC for 33% of the well's construction costs.

166. 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 will identify the impacts this rapid growth is having on the water resources and the potential impacts that could arise without planning for future development.

This project began in July 2007 and is progressing on schedule. Completion is expected in early 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

167. PROJECT: State Water Plan

LEVEL: I
SPONSOR: State of Wyoming
LOCATION: Statewide
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due
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

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, which was written in the early 1970's and published in 1973. WWDC and the SEO prepared and submitted the proposal 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 would be provided and would include a statewide computer database that will 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 methods and procedures, information dissemination methods, presentation methods. A coordination process was developed to present information on the proposed Statewide Water Planning Process, and to obtain input from interested parties.

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. Consultants were selected to prepare these basin plans, and a 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 consultant completed those plans 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 consultants completed those plans 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 consultant completed the plan 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.

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. (See the **Green River DSS Feasibility Study** for additional information.)

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 (See the **Wind/Bighorn Basin Plan Update** for details).

RECOMMENDED LEGISLATIVE ACTION:
The WWDC is requesting $250,000 to conduct a feasibility study for the development of a decision support system (DSS) for the Green River Basin. The DSS will consist of data bases and models that will allow enhanced water administration, management, and planning within the basin. (See the **Green River DSS Feasibility Study** for details.)

In addition, the WWDC is requesting $250,000 to conduct a groundwater resources evaluation for the Platte River Basin. This study will help define the basin aquifers and the groundwater quantity and quality available. (See the **Platte River Basin Plan** for details.)

168. 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

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 matched with those from the United States Geological Survey (USGS) and the University of Wyoming. The USGS's annual appropriation is approximately $100,000 and the WWDC leverages this amount with an approximate 3 to 1 match. The 2008 research project are listed below:

- Isotopic tracers are being explored as a means for identifying the contribution of glacial melt, snowmelt and base flow to stream discharge.
- In conjunction with Wyoming's Weather Modification Pilot Project, snowfall rates are being studied to improve prediction of snow water equivalent and to better understand the relationship between measured surface snowfall rates and radar reflectivity values.
- 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.
- A survey using subsurface radar, sediment core, and hydroclimatic analyses is being performed on lakes in the North Platte basin to evaluate the potential for extreme droughts

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that $300,000 be appropriated from water development account no. I for the 2009 statewide water research projects.

169. 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 II	85	2007	I	$81,000	2008

PROJECT INFORMATION:

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 water for agricultural uses, for flood and erosion control. This study differed from past studies in that it looked at water use only in Wyoming and the potential of developing off-channel sites.

The 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. 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 the reservoir and mitigation costs would be high. Economics based only on water uses in Wyoming make any of the potential sites impractical.

The CDC are interested in developing a smaller, multipurpose storage reservoir to serve Wyoming interests and subsequently requested a study to determine the feasibility for constructing a smaller project within the Sublette Creek drainage that may be supplied by the Covey/Mau canal. Sublette Creek is a tributary of the Bear River draining the mountains south and east of Cokeville, Wyoming. This project, if constructed, would provide water for agricultural uses. This Level II, Phase I study was completed this year and a Phase II study is being requested by the sponsor.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends the project be advanced in the Dams and Reservoirs Program to Level II- Phase II status with an appropriation of $375,000.

170. 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

PROJECT INFORMATION:

The Sundance Meadows subdivision is located southwest of Douglas. All of the residents currently have private wells, though many are barely palatable. Residents complain of methane in the water as well as sulphur. Most residents use home water treatment units to increase the palatability of their water. Some residents have drilled as many as five and nine times (respectively) on their property looking for an adequate water source.

In April 2004, Sundance Meadows residents acquired the services of Weston Engineering 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. Weston Engineering 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 SRF.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

171. **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	2012

PROJECT INFORMATION:
The Town of Sundance pumps drinking water from four wells. The casing of one of the wells has deteriorated to the point the well can no longer be used. Without the well, the town's water supply water supply is strained to meet summer demands. This project would offset and drill a Madison Formation well approximately 1240 feet deep to replace the existing Madison well approximately 1148 feet in depth. The WWDC will finance the engineering, land rights, permits, and construction of the project.

During well construction, the drilling contractor encountered lost zones of 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 to complete the well, and additional engineering expenses to oversee the project.

The project is in the final design phase and the construction phase is anticipated to be completed by spring 2009.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends an increase of $90,000 to the Level III appropriation. The financing plan would remain a 67% grant and a 33% loan with an interest rate of 4% and a term of 20 years.

172. **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	2008
Level III	121	2007	I	$344,112	2010

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 to connect to the Newcastle system. The estimated cost of the Level III project is $425,000. Sunset Ranch Water District applied for an appropriation of $212,500 (50% grant), and plans to fund the remaining 50% with federal money.

In 2004 the Sunset Pipeline project was approved and $212,500 (50% grant) was appropriated for the design, permit procurement, project land procurement, construction engineering, and construction of the project. They have acquired funding from RUS in the amount of $318,500 (grant / loan). In addition, they have received a SLIB Grant in the amount of $139,000.

In 2006, the material costs of the project increased to a point that the project can no longer be constructed with the funds available. The Sunset Ranch Water District requested additional grant funds from the WWDC. An additional appropriation of 67% WWDC grant of $344,112 was approved. In addition, the Sunset Ranch Water District received additional funding from RUS and SLIB.

In 2007-2008, the sponsor determined that they needed funding in lieu of the RUS grant and loan. The sponsor secured additional funding through a SLIB loan and grant. This new funding will allow the sponsor greater design flexibility and will need to adhere to RUS project criteria. Estimated total project costs are $1,587,000 and the total WWDC eligible project costs are $938,600.

Currently, the design plans are near completion and have been submitted to DEQ for review. The project will start construction in 2009.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

173. PROJECT: Sweetwater River Watershed Plan

LEVEL: I
SPONSOR: Popo Agie Conservation District
LOCATION: Fremont, Carbon, Natrona Counties
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	123	2005	I	300,000	2009

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 the main stem of the Sweetwater River and its tributaries, including Gold, Willow, Rock, Granite, Alkali, Long, Cottonwood, Arkansas, Muddy, and Crooks Creeks.

This study is evaluating surface and ground water availability within the watershed. Storage, irrigation infrastructure and upland livestock and wildlife water within the drainage will be investigated. Surface and groundwater availability information would provide baseline information from which implementation of management practices that address water distribution issues within the Sweetwater drainage can be coordinated and facilitated. This project was incorporated into the New Development Program at Level I 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. This study has a completion date of 2009.

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

174. PROJECT: Sweetwater Water Supply

LEVEL: New Application
SPONSOR: Sweetwater Improvement and Service District
LOCATION: Weston County
PROGRAM: New Development

PROJECT INFORMATION:
The sponsor is requesting a study to identify water supply alternatives available to them. The residents of the District currently receive water from an untreated open surface reservoir through a pipeline that is at least 120 years old. Whatever treatment that occurs is done at the point of use.

A potential health hazard exists to the residents of the Sweetwater district. 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 sponsor needs a secure water supply to protect the health of the residents.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the New Development Program at Level I status with an appropriation of $100,000.

175. PROJECT: Taylor Ditch Siphon

LEVEL: III
SPONSOR: Taylor Watershed Improvement District
LOCATION: Fremont County
PROGRAM: Rehabilitation

PROJECT INFORMATION:
The Taylor Watershed Improvement District has previously requested and received Level III construction funding of $270,000.00 in grant to replace an inverted siphon and the inlet and outlet structures on the Taylor Ditch in 2005. The project was a continuation of the Level I Popo Agie River Watershed Study. The request was for the 50% grant portion of the project cost. The remaining 50% ($270,000.00) was to be acquired through local and federal funding sources.

The final design was provided through the NRCS Agricultural Management Assistance (AMA) Program. The planning and engineering conducted through the NRCS technical service provider (TSP) program by Anderson Consulting Engineers, Inc. corresponds to a WWDC Level II study for the project.

The existing siphon was installed in 1941. The 28" siphon is 4,419 feet long and serves 2,800 acres of irrigated land. The steel siphon has exceeded its expected life, and has deteriorated beyond repair. Seepage from the siphon is limiting supply, adding salinity to the water, and decreasing the water quality.

The preliminary designs for the siphon were based on a 30" pipe. The design is complete for the project and construction is anticipated for the fall of 2008 if funding is approved. The project delays were a result of easement negotiations with the 12 land owners located along the route of the siphon. These negotiations were completed in 2007.

Because of extended delays due to easement issues and inflation, this appropriation was returned to WWDC in the fall of 2006. In 2007 the District estimated the cost for the project as $667,000.00 and requested construction funds. The 2008 legislature approved the funding. The District has since bid the project in October 2008 and construction is scheduled to be completed for the 2009 irrigation season.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

176. **PROJECT:** **Teton Village Water Supply**
LEVEL: New Application
SPONSOR: Teton Village Water and Sewer District
LOCATION: Teton County
PROGRAM: New Development

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 to meet current District development population. A total of 875,000 gallons would be required to meet maximum day and fire demands with total District build out.

This proposed Level III project would provide for the drilling of a new 1000 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 to meet the maximum day demand and fire demand.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC is recommending that the project be incorporated into the New Development Program at Level III status with an appropriation of $2,447,500. The financing plan includes a 25% grant and a 25% loan with an interest rate of 4% and a term of 30 years. The remaining costs of the project will be provided by the Teton Village Water and Sewer District.

177. 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	2010
Level III	75	2008	II	$1,804,910	2012

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. From the analyses in the study, 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 have surfaced relative to the removal and replacement of the airport hill 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 are 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 proposes 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 constructed. Additional transmission pipelines will be necessary. The old storage tank will be demolished.

This project is being designed with construction anticipated during 2009.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

178. PROJECT: Thunder Basin Watershed Improvement Study

LEVEL: I
SPONSOR: Conservation District
LOCATION: Converse, Campbell, Niobrara, Weston Counties
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	33	2008	I	300,000	2009

PROJECT DESCRIPTION:
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.

This study will investigate surface and ground water availability. Storage, irrigation infrastructure and upland livestock and wildlife water within the drainage will be investigated. Surface and groundwater availability information would provide baseline information from which implementation of management practices that address water distribution issues within the Sweetwater drainage can be coordinated and facilitated.

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 project activities. This study has a completion date of 2009.

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

179. PROJECT: Turnerville Water Supply

LEVEL: III
SPONSOR: Turnerville Water & Sewer District
LOCATION: Lincoln County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	15	1996	I	$250,000	1998
Level III	118	2004	II	$587,750	2008
Level III	105	2006	II	$156,244	2010

PROJECT INFORMATION:
The community of Turnerville was identified as having serious problems with their water supply, transmission and distribution systems during a WWDC Level II study conducted in 1998.

Turnerville formed a water district and made application for Level III funding in 2004. The project which the District is implementing renovates the Willow Canyon spring, installation of a disinfection system and installs four miles of six and eight inch piping. In addition, the District is constructing a 250,000 gallon buried concrete storage tank.

The district received authorization for a grant of $587,750 in 2004 from the legislature for one half of the eligible project cost. The sponsor received the matching funds from RUS in 2005. An engineering firm was selected and a contract executed. Design work began but it soon became apparent that unusual inflation rates made the 2004 funding inadequate. The district received supplemental WWDC funding in 2006 and the project design was completed. Construction began in August 2007 and was substantially completed in October 2008. The project will be closed out in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

180. PROJECT: Upper Green River Westside Storage

LEVEL: II
SPONSOR: The Upper Green River Water Basin Joint Powers Board
LOCATION: Sublette County
PROGRAM: Dams and Reservoirs

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2005	III	$175,000	2007
Level II	85	2007	III	$200,000	2009

PROJECT INFORMATION:

At the request of the Upper Green River Water Basin Joint Powers Board, an appropriation was authorized in 2005 to complete a Level II study, titled Upper Green River Storage Study. The Denver engineering firm, Kleinfelder, Inc., was hired to complete the work. A large part of their scope of services was to analyze shortages and identify potential on channel and off channel storage sites. To complete this effort, Kleinfelder hired Leonard Rice Engineers, Inc. as a subconsultant to model the Upper Green River Basin. The modeling effort resulted in the identification of irrigation shortages across the basin. Kleinfelder then located potential reservoir sites, within the subbasins that contained the shortages, to capture spring runoff and provide late season supply.

Four new subbasin reservoir sites were identified, in addition to three subbasin sites that had been previously recommended from the 2001 Green River ASR Study. Three of the seven sites were located in subbasins (Cottonwood Creek, Horse Creek, and Piney Creek) that showed enough need, based on shortages, to receive additional study. The shortages for the remainder of the subbasins that were studied were substantially less than the three that were recommended for further study.

An appropriation was authorized in 2007 to continue the Level II study, re-titled Upper Green River Westside Storage Study. Short Elliott Hendrickson Inc. (SEH) was hired to conduct the additional study of the three recommended subbasins (Cottonwood Creek, Horse Creek, and Piney Creek). SEH has completed hydrologic analysis and site investigations to determine the most viable storage locations. This included implementing a series of improvements, enhancements and corrections to the pre-existing StateMod model for the Upper Green River Basin. Lack of historical hydrologic data in the area has presented challenges to accurately portraying available supply and shortages in the basin. The scope of services also included an alternatives analysis to preliminarily determine the "least environmentally damaging practical alternative" as outlined by the Clean Water Act Section 404. Furthermore, an economic analysis was conducted to determine the benefits to the state and the project sponsor, as well as the sponsor's ability to pay. SEH is currently finalizing the Level II study.

WWDO has presented the findings of the latest study, as well as past studies, at a series of workshops in the Green River Basin and is currently seeking support from local sponsors before moving forward with any further studies.

RECOMMENDED LEGISLATIVE ACTION:

No legislative is action required.

181. **PROJECT:** **Upton Well**
LEVEL: II
SPONSOR: Town of Upton
LOCATION: Weston County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	123	1990	I	$150,000	1992
Level II	85	2007	I	$ 75,000	2008

PROJECT INFORMATION:
The Upton No. 6 Well was drilled by the Town of Upton in 1983 and acid stimulated with WWDC funds in 1990. Until the frac-job, the well was a poor producer, but production was increased to 600 gpm. Unfortunately, after the frac-job there was a tremendous increase in concentration of iron bacteria and the well water had a foul odor. Therefore, the well was not used as a drinking water supply. In the years since, the well has been used for raw water and water haul purposes, and the iron bacteria counts have dropped to level that may be manageable. The purpose of this project is to evaluate different options for treating the water using chlorination, ultra-violet exposure, ozonation, etc. to destroy/neutralize the bacteria. If an effective process can be realized for the town, then the study will revisit the conceptual design developed to tie-in the well to the system and update construction cost estimates.

In September of 2007, the No. 6 Well was pump tested and monitored for water quality during the test. The well produces at the same rate of the post-frac rate but still carries a coliform bacteria component in excess of the primary drinking water standard. The balance of the study will determine the most effective treatment process and a conceptual design for adding the well into the Town's system. The final report will be delivered by December 2008.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced in the New Development Program to Level III status with an appropriation of $395,000. The funding will be 67% grant and 33% loan at 4% with a term of 30 years.

182. **PROJECT:** **Urban/Rural Sprawl Research Project**
LEVEL: N/A
SPONSOR: WWDC and UW
LOCATION: N/A
PROGRAM: Rehabilitation

EXISTING LEGISLATION

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	75	2004	II	$150,000	2006

PROJECT INFORMATION:
The project analyzes impacts and benefits that occur as a result of constructing large rural, regional water systems. Issues analyzed include drinking water quality, wastewater treatment/handling, impacts on county resources, economic considerations, aesthetics, infrastructure development before and after the WWDC project, and long-term maintenance of the project.

The study was completed in 2008 and the final report is available in hard copy or on the WWDC web site http://wwdc.state.wy.us/

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

183. 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	7	2002	I	300,000	2004
Level II	75	2005	III	300,000	2007
Level II	85	2007	III	250,000	2009

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 recent drought has greatly changed the water use agreement between downstream irrigators and PacifiCorp.

Existing agricultural uses show 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 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 supply 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.

Gannett Fleming, Inc. was hired to complete the study. One major component of their work was to complete a Geotechnical Drilling program on the Dempsey Basin Reservoir site. Before the drilling could start, Gannett Fleming was required to obtain a Special Use Permit from BLM. 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. The contract was closed to reinitiate work under a new contract. Gannett Fleming was able to finish the wetlands classification, the

archeological investigations, the refined hydrologic needs analysis, and the surveying work that were included in their contract. After the above items were finished, Gannett Fleming prepared an interim report summarizing their results and outlining an approach to the geotechnical drilling work. Due to the delays encountered, the Gannett Fleming contract was amended to extend the contract expiration date to June 30, 2007.

In June, 2007, the Temporary Use Permit for the project was issued by the United States Department of the Interior Bureau of Land Management. States West Water Resources Corporation was also hired to complete the study in June of 2007. To date, States West has completed the geotechnical drilling at Dempsey Basin and Viva Naughton and is in the process of analyzing results. They have finished analysis of wetland mitigation areas near Viva Naughton and have been updating conceptual designs and cost estimates. During their work, States West has proposed an alternative storage site upstream of the Dempsey Basin site that could potentially be more favorable in the aspect of land ownership, NEPA, SHPO, and embankment quantities. Additional funds are being requested to further explore and drill the alternative storage site upstream of the Dempsey Basin site.

The State of Wyoming is currently discussing partnership options with PacifiCorp, owner of Viva Naughton Dam and Reservoir and holder of the permit to enlarge the reservoir, related to construction of a project that may be beneficial to the State, PacifiCorp and local irrigators.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that $150,000 be appropriated for the continuation of the existing Level II, Phase II study within the Dams and Reservoirs Program.

184. PROJECT: Wamsutter Ground Water

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	2009

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 and gas development activities in the area has created an increase in population of the Town and attendant water demands. Currently the Town has a WWDC funded project to connect Well No. 8 (Permit No. U.W. 113188) to the system but the addition of this well will not relieve dependence on two of the original old railroad supply wells drilled in 1902 and 1912.

A Level II study is underway which includes 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.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

185. PROJECT: Wamsutter Water Supply Rehabilitation

LEVEL: III
SPONSOR: Town of Wamsutter
LOCATION: Sweetwater County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	105	2006	II	$258,500	2010

PROJECT INFORMATION:

In 1997, the Wyoming Water Development Commission supervised a Level II Water Supply Study of the Town of Wamsutter's Water System. The study inventoried and assessed the existing water supply facilities, identified water supply alternatives and prepared preliminary designs and cost estimates for the various alternatives.

From the results of the Level II study, there are several concerns with the existing water system that may affect the water system reliability. Fundamental water system deficiencies from a reliability standpoint include aging wells, aging tank, variable speed pumps and controls systems that are getting old, and a system dependent on continuous electric power to operate booster pumps to deliver water.

To address these deficiencies, the underlying objective is to gradually phase out Wamsutter's reliance on Well Nos. 5, 6 and 7, the existing storage tank, and the booster pump station in favor of a non-interruptible, gravity-feed water system. Well No. 8, with its superior water quality, will serve as the primary water source for the Town of Wamsutter.
The Level II study established the following priorities:

- Completion of Well No. 8
- Construction of a storage tank with chlorination and gas stripping facilities near Well No. 8
- Construction of a 12-inch transmission line connecting Well No. 8 to the distribution system
- Construction and completion of a new well near Well No. 8
- Plugging existing Well Nos. 5, 6, and 7
- Demolition of the existing storage tank and booster pump station
- Repair or replacement of leaking water mains and installation of water meters

As the total project cost for these improvements are estimated to be in excess of $2.1 million, the Town of Wamsutter proposes to phase construction of these improvements over a several year period.

The following is a proposed project phasing and schedule for implementation of these improvements:

Improvements

- Phase 1 – A portion of the 12" transmission line was installed to replace an existing 3" main. This phase was completed in 2001.
- Phase 2 –Construction of the 12" transmission line was completed up to the Well 8 site but was not connected to the well. This work was completed in 2002. A well pump and drop piping was installed in Well No. 8 in 2003.

- Phase 3 – Installation of the relocated 53,000 gallon tank with a VOC stripping unit, pump station, chlorination and connection of Well 8 to the system is proposed for 2006.
- Phase 4 – Water distribution system improvements, including water meters. The meter installation portion of this phase has been designed and will be constructed in the spring of 2006.
- Phase 5 – Construction of a storage tank to replace the existing 350,000 gallon tank is proposed for 2009.
- Phase 6 – Construction of a new well and transmission line to the storage tank is proposed. (See the Wamsutter Groundwater Project.)
- Phase 7 – Plugging existing wells and demolition of existing facilities is proposed for 2012.

The Town of Wamsutter received funding of the Phase 3 improvements. The work under this phase will include completion of the transmission line to Well No. 8 and installation of a new pump station, chlorination unit and relocating the Table Rock water tank to the Well No. 8 site. The Table Rock tank is a 10' diameter by 90' tall (53,000 gallon) tank that will be fitted with a cascade VOC stripping unit and connected to the system.

Installation of the pump station, tank and chlorination unit will allow Well No. 8 to be connected to the existing distribution system. Well No. 8 will provide a more reliable source of water and allow the existing pump station and tank to be taken off line for maintenance and repairs. This is desperately needed because the existing tank currently has roof members that are failing. This project is under contract and will be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

186. PROJECT: Wamsutter Well

LEVEL: New Application
SPONSOR: Town of Wamsutter
LOCATION: Sweetwater County
PROGRAM: New Development

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 is seeking 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 as a new public water supply source well. 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 recently tested under the existing 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 (TDS is 978 mg/L, in excess of 500 mg/L EPA secondary standard but comparable to the Town's existing wells).

The BP well could usefully augment or replace one of the existing Wamsutter Wells, providing a much newer source supply facility, less subject to causing interference to existing wells, and better suited to integration with Well #8 and the new storage tank (all north of I-80). With the

addition of the BP Well and a new well #9 to be drilled under the WWDC Level II study in progress, the Town could reach the goal of feasibly converting from its old source supply/storage components and meeting future demands of a growing community

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the New Development Program at Level III status with an appropriation of $542,700. The funding will be a 67% grant with the Town providing the remaining 33% of the project costs.

187. 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*	2010
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) over the last three years. 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 system has marginal operating pressures, approximately 40 psi, and the residents in the new homes have expressed concerns regarding operating pressures. The WWSD proposes to construct a new pump station, water storage tank and transmission pipeline to improve operating pressures in this region of the system and to allow for continued growth of 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 not all of the project components can be constructed within the WWSD's original budget; Due to pressures for affordable housing in the Casper region, the developers have expanded their construction plans in Bar Nunn. The result will be the doubling of the size of the town in the next few years. 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, if one should occur. Modifications to the potable water system are proposed as part of this project. Costs for those modifications are included in the appropriation provided during the 2008 session.

The first phase of this project has been designed and should be constructed in 2009. The second phase will be designed in 2009 and should be constructed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

188. PROJECT: Washakie Rural Water Supply

LEVEL: III
SPONSOR: Washakie Rural Improvement District
LOCATION: Washakie County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	10	1994	I	$100,000	1996
Level II	15	1996	I	Hold*	1998
Level II	82	1998	I	$100,000	2000
Level III	16	1999	I	$5,220,000*	2004
Level III	2	2001	I	$240,000*	2004
Level III	69	2003	I	$3,000,000*	2010
Level III	105	2006	I	$2,803,000*	2010

*67% grant, balance of project cost from other sources.

PROJECT INFORMATION:
The project consists of a rural water system extending from the Hot Springs county line on the south, to the Big Horn county line on the north, and encompassing most of the private lands along both sides of the Big Horn River. The new system will obtain its water from the City of Worland, which has an ample supply from two flowing Madison-Bighorn formation wells.

The sponsor's members currently utilize individual wells, which generally exceed EPA regulations for TDS and Sulfates. Some local wells are also high in sodium, selenium, and nitrate. It is estimated that up to 70% of the Sponsor's members haul water or utilize bottled water for domestic use.

The sponsor's project was originally funded in 1999. Due to difficulties with obtaining a water purchase agreement with the City of Worland, preparation of an acceptable design obtaining easements and assessing the impact of the future Big Horn Regional JPB's project, construction of the first phase of this project was not started until May 2001.

Upon placing the Phase I project into service, operational problems surfaced. Subsequently, the engineering consultant's contract was terminated. A new consultant was selected through a competitive qualification based selection process.

After the new consultant began designing the remainder of the sponsor's system, a consultant was selected to design the Big Horn Regional JPB's project. The two consultants worked closely to hydraulically model the Big Horn Regional's northern service area, which includes the sponsor's system. The result of this model is a revised pipeline configuration for the sponsor's system, which saves about $2,000,000, with savings shared by both sponsors.

All of the water system has been constructed and is now in service.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the reversion date for this project be accelerated to July 1, 2009 to allow the unspent funds ($1,383,409) to revert to water development account no. I.

189. 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 2008/09. 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 will be using the Wyoming 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 2007-08 operational season with optimized (and season lengthened) ground-based operations for the remaining two winters under the program.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

190. PROJECT: West Side Irrigation NEPA Analysis

LEVEL: I
SPONSOR: West Side 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 West Side 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 Big Horn 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 are labor and cost intensive and mandated that the project timeline be extended by a year.

The 2005 Wyoming State Legislature authorized $1,200,000 in additional funds to complete the West Side 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 & 2006 field seasons) and cost recovery amounts of the Bureau of Land Management. 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 West Side NEPA analysis has been ongoing during 2007 and 2008, with the Draft Environmental Impact Statement document completed December, 2007 and a 45-day comment period having taken place. During 2008, the response to the draft EIS comments was completed, the cultural resources report finalized, and the mitigation plan prepared. It is expected that the final EIS document will be issued by the BLM by the end of 2008. The BLM Record of Decision is expected February, 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

191. PROJECT: Wheatland – Black Mountain Water Supply

LEVEL: New Legislation
SPONSOR: Town of Wheatland
LOCATION: Platte County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	121	2007	I	$222,440	2012

PROJECT INFORMATION:
In 2001 the Legislature authorized WWDC grant funding in the amount of $222,000 to construct the first two phases of the project to provide additional total water supply and fire supply to the Black Mountain Village area (west of Interstate Highway I-25) in the Town of Wheatland. This included a 1 million gallon storage tank, valves, pressure controls and necessary piping to connect the new storage and well to their water system.

The 2003 Legislature authorized a 50% grant in the amount of $200,000 to complete a third well and construct a disinfection system and connection to the new storage tank. The Black Mountain No. 3 well was drilled in September 2004 but funding was not adequate to complete the well, install a pump, and construct the disinfection system and connection to the storage tank. The funding authorization was subsequently closed out and the project listed as completed.

In August 2006, the Town of Wheatland requested additional Level III construction funding for the completion and connection of the Black Mountain No. 3 well. The new well is capable of producing approximately 350 gallons per minute. Estimated costs to complete the well house,

storage tank connection and well pump were determined to be $332,000. A 67% WWDC grant in the amount of $222,440 was approved by the 2007 Legislative Session with the 33% match being provided by the Town of Wheatland.

The project was bid in August 2008 and a contract awarded in September 2008. Construction is scheduled to be completed by the end of 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is needed.

192. PROJECT: Wheatland ID Master Plan

LEVEL: New Application
SPONSOR: Wheatland Irrigation District
LOCATION: Platte County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	268	1989	II	$118,534	
Level II	268	1989	II	$180,913	
Level II	123	1990	II	$113,667	
Level III	28	1992	II	$80,288	
Level III	45	1997	II	$384,638	
Level II	75/99	05/06	II	$279,858	
Level III	105	2006	II	$150,080	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 to their system. 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 will be system automation upgrades and a review of system operations. All other needed system improvements found that are not included in the scope will also be listed and upgrades analyzed as the budget will allow. The Level I report will be completed in 2010.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the Wheatland Irrigation District Master Plan project be incorporated into the Rehabilitation Program at Level I status with an appropriation of $300,000.

193. 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:
Wheatland Irrigation District serves 54,180 acres with a conveyance system from Sand Lake above Arlington to points east of Wheatland. 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 will finance the materials and engineering and the District will provide the labor and equipment for this project, including all earthwork.

Construction of the WID Toombs Re-Storage Reservoir and the WID Gudhal Re-Storage Reservoir began in the fall of 2007 and will be complete prior to the 2009 irrigation season.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

194. PROJECT: Wheatland Master Plan

LEVEL: New Legislation
SPONSOR: Town of Wheatland
LOCATION: Platte County
PROGRAM: New Development

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 each. The Town will be completing the Black Mountain Well No. 3 in the near future and it should produce 350 gpm. Since drilling of the Black Mountain Well No. 3, the Black Mountain Well No. 2 started pumping and 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 located near the two storage tanks on the main system.

The Town's water average usage per capita per day is 360 gallons while the peak day demand is 1100 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.

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

195. PROJECT: Willwood Rehabilitation, GIS

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 their 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 was completed in 2008 and conceptual designs have been completed. It is the engineer's recommendation that approximately 365,000 cubic yards of sediment be removed from behind the dam. It is likely that the District will request funds for sediment removal in the near future. This project is nearly complete and a final report is expected in early 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

196. PROJECT: Willwood Rehabilitation 2009

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:
As a result of the ongoing Level II study, the sponsor is requesting grant funds to finance 100% of the invoiced materials to replace a gravity flow ditch with pipe. The sponsor will fund all of the engineering services and all of the construction costs excluding invoiced materials.

This construction project will convert an existing open canal to 24" PVC pipe. The current 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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the Rehabilitation Program at Level III status with an appropriation of $284,000. The funding would serve as a material only grant. The sponsor is responsible for all other project costs.

197. PROJECT: Wind/Bighorn River Basin Plan Update

LEVEL: I
SPONSOR: State Project
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 (Little Missouri, Belle Fourche, Cheyenne, Niobrara) 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 WWDO 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.

A consultant was selected to complete WB Plan update in May 2008. The contract was initiated 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 by December 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

198. 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 have not been addressed. The objectives of this three-year Level I study are 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. The results will supplement and complement WWDC basin plans and provide water planners, managers and stakeholders with information about glacier contributions to streamflow. Project results will provide baseline data that could be used to determine the potential impacts of winter snowpack augmentation (i.e., weather modification) on glacial retreat. The field assessment of Dinwoody Glacier was completed in the summer of 2006. Radar measurements were taken to determine ice thickness, a GPS survey was conducted to define the surface area, and repeat photography was performed. Throughout 2007, emphasis was placed on acquiring available aerial photography for the Wind River Range and analyzing for volumetric changes in glacial ice. Specific attention was given to Dinwoody Glacier through the use of 3-D modeling software for visualization purposes. During 2008, efforts centered on estimating glacial volume loss and quantifying meltwater contribution to streamflow, focusing on the critical late-summer / early-fall season (e.g., agricultural use). For 2009, efforts will be expanded due to the availability of new data (2006 aerial photographs) from the USGS. Additionally, it is hoped that empirical relationships between glacier area change and glacier volume loss can be developed. This project is slated for completion August, 2009.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

199. PROJECT: Wind River Irrigation Rehabilitation

LEVEL: III
SPONSORS: The Eastern Shoshone Business Council
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 catastrophic failure of segments of the water delivery system is imminent. In areas the efficiency of the delivery system is 35%.

This appropriation would help fund the 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 shall be used to match the states funds. The first phase of the project, for which state funds are being sought, will focus 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. The project had been on hold pending tribal approval of the project agreements by the Councils. The councils have signed the agreements and work on the project should start in early 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

200. 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	2010

PROJECT INFORMATION:
The City of Worland has an existing 24" asbestos cement potable 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 is necessitating that pipeline be constructed on private property for most of the 3-mile impact area. Negotiations for the easements have not proceeded well, so the city has initiated condemnation proceedings. The time it will take to complete this process is unknown, but they expect they will need more time and funds to complete the project.

A consulting engineering firm has been retained to design this system. Construction is anticipated to be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the Level III appropriation be increased $842,500 for completion of this project. The funds will serve as a 50% grant. The remaining 50% funds will be provided by the sponsor.

201. **PROJECT:** **Wright Master Plan**
LEVEL: I
SPONSOR: Wright Master Plan
LOCATION: Campbell County
PROGRAM: New Development

EXISTING LEGISLATION:

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

PROJECT INFORMATION:
This study is to conduct system modeling for the Wright Water and Sewer District 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 and the District has reached the extent of planning that was done in the 1970's. This study is has a completion date of 2009.

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

202. **PROJECT:** **Yoder Ground Water**
LEVEL: New Application
SPONSOR: Town of Yoder
LOCATION: Goshen County
PROGRAM: New Development

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 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 is requesting funding for a ground water exploration project to determine optimal well siting/design to avoid radionuclide, uranium, and arsenic constituents that are natural contaminant species residing at varying concentrations in the White River Formation 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 concentrate on an exploration program to determine a best site/design for a new municipal well or well field. The study will also consider economic treatment options for a worst-case scenario of regional declining water quality.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated in the New Development Program at Level II status with an appropriation of $400,000.

CHAPTER 4. COMPLETED PROJECT REPORTS

Completed Planning (Level I and II) Projects

Completed Level I and Level II Projects are those projects that have not advanced to Level III, Construction. Some Level I and II projects lack the financial and economic feasibility for the sponsor to take on the required level of debt. These projects may have to wait for conditions to change or for other funding sources to become available. If you require information on any of the following reports, please contact WWDC.

01. Aladdin Water Supply
02. Alta Master Plan/Test Wel1
03 Arapahoe Master Plan
04. Beulah Water Supply
05. Big Valley & Crossed Arrows Improvement District Water Supply
06. Black Willow Water Supply
07 Boulter Lake Enlargement
08. Bridger Valley Water Supply
09. Canyon/Newcastle Area Water Supply
10. Casper Alcova GIS
11. CBM Aquifer Storage and Retrieval
12. Cheyenne/Laramie County Water Service Area
13. Cheyenne Hydro Power
14. Corner Mountain Test Well
15. Cokeville Reservoir
16. Cottonwood/Grass Creek Watershed Management Plan
17. Crook County Reservoirs and Water Management
18. Crow Creek Groundwater Recharge
19. Dubois Regional Water Supply
20. Eight Mile-High Plains Well
21. Encampment/Sierra Madre Water Supply
22. Frannie Well Rehabilitation
23. Goshen Irrigation District Master Plan 2006
24. Goshen Re-regulating Reservoir
25. Granger Water Supply
26. Green River Groundwater Recharge and Alternate Storage
27. Greybull Raw Water
28. Greybull Wells Rehabilitation
29. Hawk Springs Water Supply
30. Heart Mountain ID Return Flow Study
31. Hoback Junction Rural Regional Master Plan
32. Hoback Junction Water Supply
33. Hot Springs State Park, Big Springs Study
34. Hyattville Water Supply
35. Irrigation Hydro Power
36. Jons Drop Hydropower
37. Kaycee Well & Storage
38. Kennington Springs Level II Study
39. Kirby Area Water Supply Study
40. Kirby Creek Water Management Plan

41. Lander Paleozoic Well
42. LeClair/Riverton Valley Irrigation Storage
43. Lodgepole Creek ASR
44. Lovell ID Hydro Power
45. Lysite Water Supply
46. Middle Fork Dam
47. Middle Fork Powder Watershed Management Plan
48. North Canal-Grover
49. North Cheyenne Master Plan
50. Opal Regional Water Supply
51. Owl Creek Irrigation District Conservation Study
52. Owl Creek Irrigation Master Plan
53. Pinedale Hydro Power
54. Platte-Goshen Regional Master Plan
55. Popo Agie Watershed Management Plan
56. Powder River Water Supply
57. Ray Lake Enlargement
58. Rock Springs East Water Supply
59. Sheridan/Veterans Affairs Medical Center (VAMC) Water Supply Study
60. Smith's Fork Dam
61. South Garden Creek Water Supply
62. State Stream Gage System
63. Tensleep/Hyattville Master Plan
64. Tensleep Water Supply
65. Thermopolis Storage and Raw Water
66. Three Horses Watershed Study
67. Upper Wind River Storage
68. Wagner Cherokee Irrigation Rehabilitation
69. Washakie County Safety
70. Water Value Study
71. Weather Modification – Salt River and Wyoming Ranges
72. Wheatland ID System Phase II
73. Worland Area Irrigated Lands GIS
74. Worland Eastside Transmission Line
75. Worland Wells Test
76. 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

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
COMPLETION DATE	3/15/05
SESSION LAW	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:** **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

09 **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

10. **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

11. **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

12. 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

13. 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

14. 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

15. 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

16. 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

17. 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

18. 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

19. 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

20. 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

21. 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

22. 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

23. 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

24. 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

25. 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

26. 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

27. **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

28. **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

29. **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

30. **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 transmission pipelines
ENGINEER: States West, Cheyenne, Wyoming
CONTRACTOR: Storage Tank: Reiman Corporation
Pipeline: Western Municipal Construction
YEAR COMPLETED: 2008
SESSION LAW YEAR: 2003, 2005, 2006

31. 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

32. 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

33. 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

34. 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

35. 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

36. 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

37. 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

38. 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

39. **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

40. **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

41. **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

42. 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

43. 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

44. 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

45. 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

46. **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

47. **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

48. **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

49. **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

50. 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

51. 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

52. 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

53.	**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
54.	**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
55.	**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
56.	**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

57. 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

58. 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

59. 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

60. 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

61. 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

62. 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

63. 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

64. 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

65.	**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

66.	**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

67.	**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

68. **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

69. **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

70. **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

71. **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

72. 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

73. 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

74. 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

75. 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

76. 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

77. 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

78. 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

79. 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

80. 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

81. 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

82. 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

83. 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

84. 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

85. **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

86. **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

87. **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

88. **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

89. **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.

90. **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

91. **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

92. **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
SESSION LAWS: 1995, 1996, 1998
COMPLETION YEAR: 2000

93. **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

94. 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

95. 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

96. 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

97. 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

98. 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)

99. 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
DATE COMPLETED:	2001

100. 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

101. 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

102. 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

103. 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

104. 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

105. 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

106. 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

107. 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

108. 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

109. 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

110. 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

111. 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

112. 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

113. 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

114. 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

115. PROJECT: **Hartville Water Supply**

SPONSOR:	Town of Hartville
LOCATION:	Platte County
PROGRAM:	New Development
ACTUAL EXPENDITURES:	$19,020 (transfer of well to town)
DATE COMPLETED:	2001

116. 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

117. 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

118. 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

119. 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
DATE COMPLETED:	1990
SESSION LAW DATE:	1988

120. 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

121. 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
DATE COMPLETED:	2001
SESSION LAW DATE:	1999

122. 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

123. 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
DATE COMPLETED:	1994
SESSION LAW DATE:	1991

124. 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
DATE COMPLETED:	1994
SESSION LAW DATE:	1990

125. 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

126. 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
DATE COMPLETED:	1987
SESSION LAW DATE:	1984

127. 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

128. 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

129. 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

130. 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

131. 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

132. 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
DATE COMPLETED:	1987
SESSION LAW DATE:	1984

133. 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
DATE COMPLETED:	1992
SESSION LAW DATE:	1986

134. 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
DATE COMPLETED:	1990
SESSION LAW DATE:	1988

135. 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

136. 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
DATE COMPLETED:	1996
SESSION LAW DATE:	1990

137. 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
COMPLETION DATE	May 2002
SESSION LAW	2000

138. 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
DATE COMPLETED:	2001
SESSION LAW DATE:	1997

139. 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

140. 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

141. 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

142. 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

143. 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

144. **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

145. 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

146. **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

147. 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
DATE COMPLETED:	2001

148. 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

149. 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
DATE COMPLETED:	2001

150. 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
DATE COMPLETED:	2001

151. 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

152. 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

153. 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
DATE COMPLETED:	2005
SESSION LAW DATE:	2002

154. 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
DATE COMPLETED:	2001
SESSION LAW DATE:	1999

155. 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

156. 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

157. 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
DATE COMPLETED:	1990
SESSION LAW DATE:	1985

158. 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
DATE COMPLETED:	1998
SESSION LAW DATE:	1996

159. 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

160. 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

161. 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

162. 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

163. 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

164. 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

165. 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

166. 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

167. 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

168. 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

169. 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

170. 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

171. 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

172. 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

173. 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

174. **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

175. **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

176. **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

177. 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

178. 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

179. 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

180. 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

181. 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

182. 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
DATE COMPLETED:	2000
SESSION LAW DATE:	1997

183. 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

184. 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

185. 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

186. 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

187. 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

188. 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

189. 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

190. 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

191. 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

192. 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

193. 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

194. 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

195. 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

196. 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

197. 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

198. 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

199. 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

200. 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

201. 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

202. 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

203. 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

204. 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

205. 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

206. 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

207. 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

208. 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

209. 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

210. 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

211. 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

212. 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

213. 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 DATE:	2000

214. 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

215. 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
DATE COMPLETED:	1989
SESSION LAW DATE:	1983

216. 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

217. 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)

218. 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

219. 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

220. PROJECT: **Sheridan Pipeline Rehabilitation**

SPONSOR:	City of Sheridan
LOCATION:	Sheridan County
PROGRAM:	Rehabilitation
APPROPRIATION:	$6,044,000
ACTUAL EXPENDITURES:	$5,926,977.15
DESCRIPTION:	Transmission line replacement
ENGINEER:	HKM Engineering, Sheridan, Wyoming
CONTRACTOR:	Excel Construction, Inc., Sheridan, Wyoming
YEAR COMPLETED:	2008
SESSION LAW YEAR:	2003, 2005, 2006

221. 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
DATE COMPLETED:	2001

222. 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

223. 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

224. 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

225. 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

226. 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

227. 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

228. 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

229. 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

230. 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

231. 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

232. 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

233. 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

234. 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

235. 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

236. 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

237. 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

238. 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

239. 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

240. 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

241. 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

242. 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

243. 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

244. 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

245. 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

246. 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

247. 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

248. 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

249. 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

250. 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

251. 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

252. 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

253. 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

254. 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

255. 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

256. 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

257. 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

258. 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

259. 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

260. 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

261. 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

262. 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

263. 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

264. 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

265. 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

266. 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

267. 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

268. 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