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CHAPTER 1. GENERAL COMMENTS/OVERVIEW/EXECUTIVE SUMMARY

December 31, 2007

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).

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.

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.

To date, one hundred (100) applications for instream flow water rights have been prepared by the Wyoming Game and Fish Department. As of December 31, 2007, the WWDC has published ninety-six (96) feasibility studies. The Wyoming Game and Fish Department has indicated that it will be preparing four applications per year for instream flow water rights.

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. Following the completion of the framework plan it is anticipated that the update process will begin and funding requests will be submitted to the legislature in subsequent sessions.

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, 2007, 42 municipalities had received assistance from the program. During the 2002 Session the Wyoming Water Development Commission recommended and the legislature provided an additional $1,500,000 for the groundwater grant program, which authorized the inclusion of water and sewer districts and service and improvement districts as eligible program participants. This legislation also increased the funding eligibility to $400,000 per project. During the 2005 Session the Legislature provided an additional $1,000,000 for the groundwater grant program.

6. Small Water Project Program

In 2002 the legislature appropriated a total of one million dollars ($1,000,000), five hundred thousand dollars ($500,000) from Water Development Account I and five hundred thousand dollars ($500,000) from Water Development Account II, to initiate small pilot projects in the Green and Yellowstone River basins.

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. Additional funding of $750,000 to each account was provided in the 2004 Legislative session.

Due to interest in the program, additional funding was provided by the legislature in 2005, bringing the total funding to $3,500,000 divided equally between Water Development Account No. I and Water Development Account No. II. 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 are being accepted at this time.

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. In 1995, 1999, and 2006, requests for project funding exceeded the funds available. 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, 2007, $186,141,260 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.

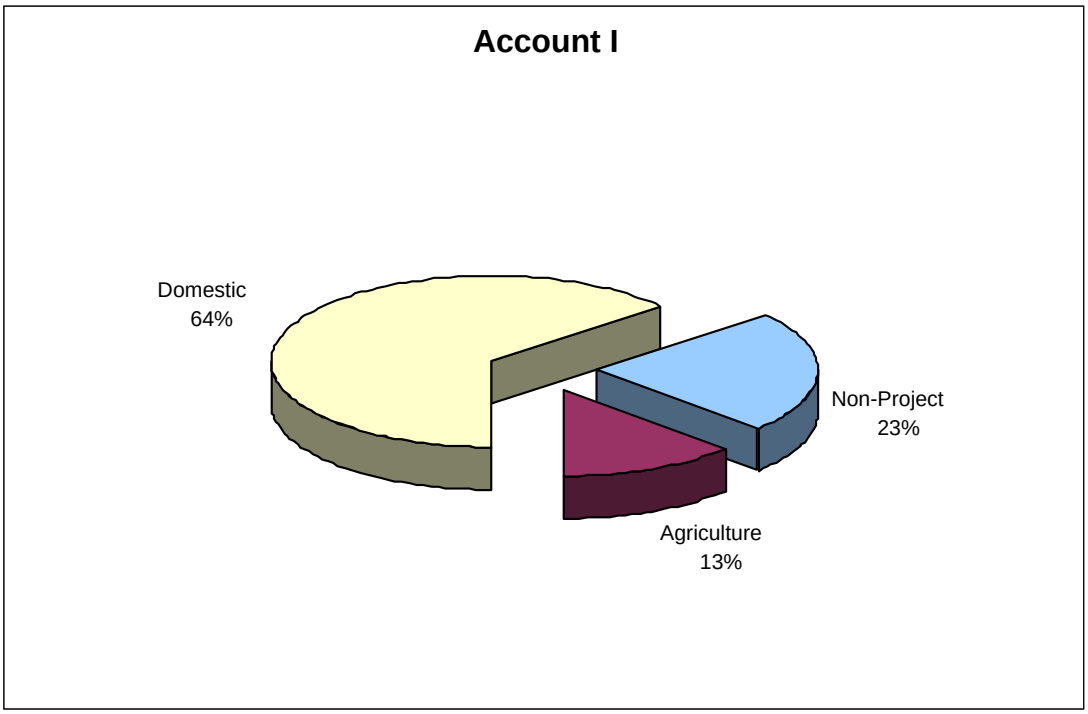
There are reasons the number of storage projects in the Water Development Program are less than originally anticipated. The first and foremost reason is cost. It is very difficult for a project sponsor to afford a storage facility even with the most favorable financing terms available. Second, the federal 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.

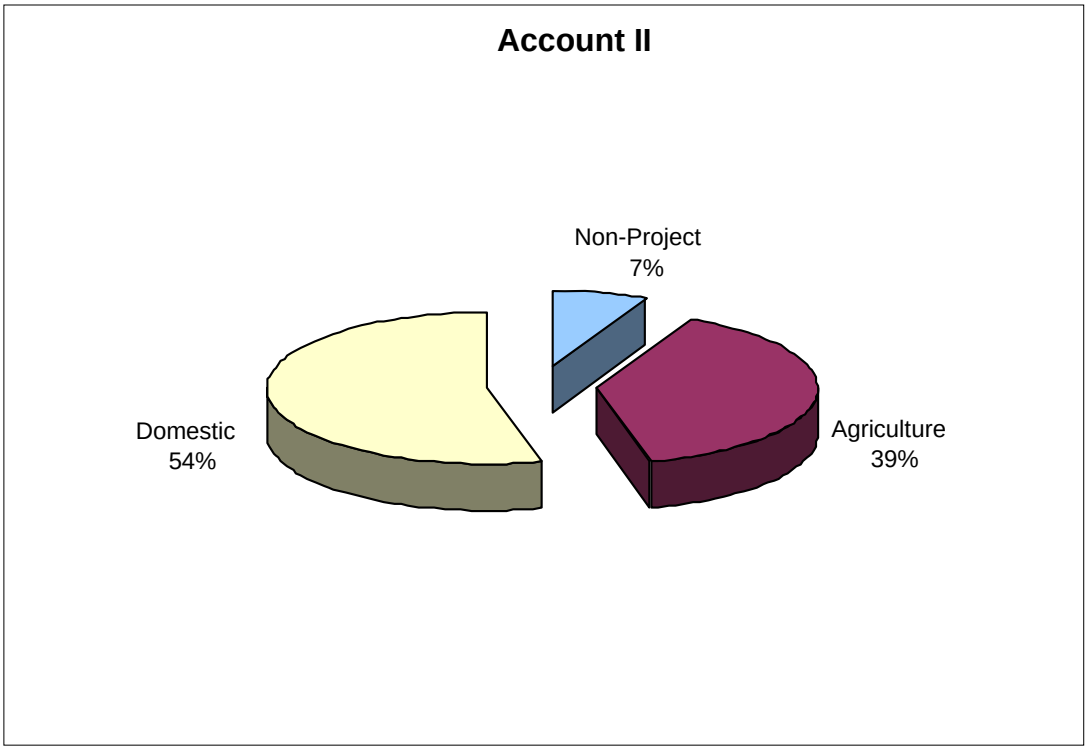
The impact of federal requirements on the program can best be demonstrated by the history of the Little Snake River Valley Dam and Reservoir Project. Originally, the WWDC sought a 404 permit for a 52,000 acre foot reservoir that would yield 12,000 acre feet per year for irrigation purposes and 20,000 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

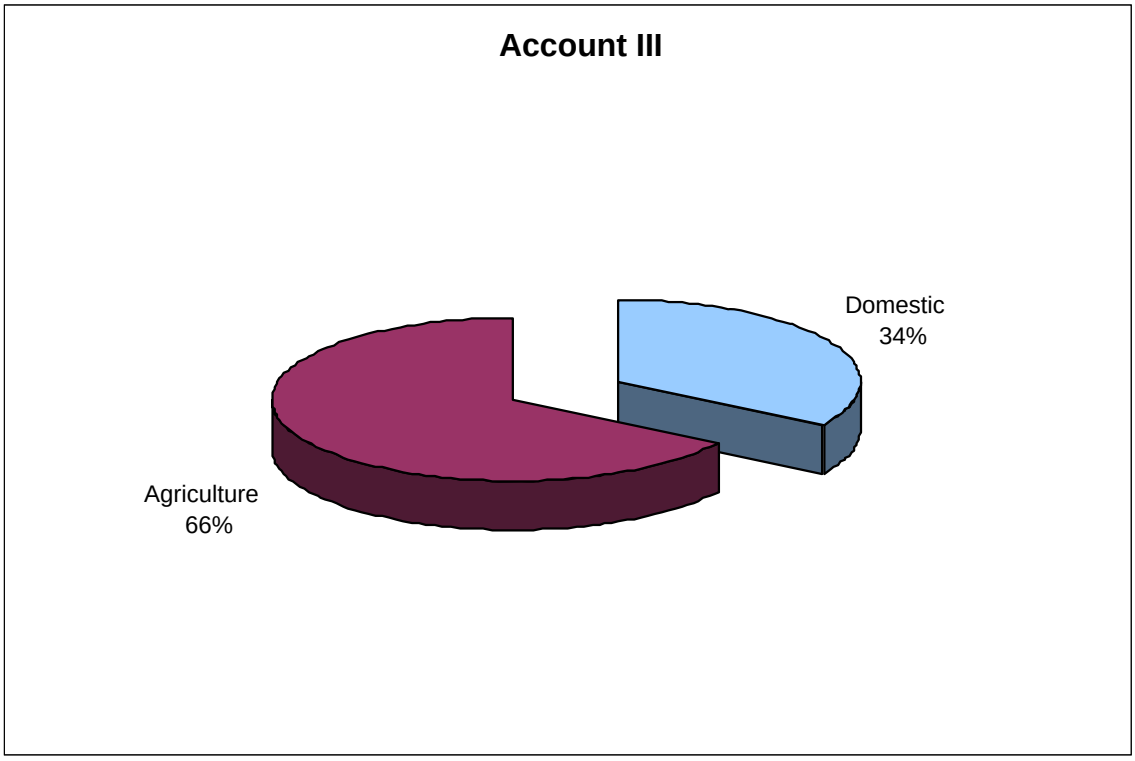
"least environmentally damaging alternative." Unfortunately, the federal interpretation of "purpose and need" tends to ignore state goals and objectives such as increased recreation, hydropower production, instream flow releases, and economic development, which results in a predisposition toward the 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.

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, 2007:







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 addition, this category includes expenditures for the state's share of the construction of the Buffalo Bill Dam Enlargement and the repair and maintenance of Fontenelle Dam.

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, Dams & Reservoirs 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" has been developed by the WWDC in consultation with the legislature's Select Water Committee.

The criteria is 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.

CHAPTER 2. 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 3. IMPACT/CONSEQUENCES/OUTCOMES
2008 Legislative Program

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.

WYOMING WATER DEVELOPMENT OFFICE
Fiscal Projections

Water Development Account No. 1 - New Development Program
W.S. 41-2-124(a)(i)

Total Revenues			
	General Fund	117,600,000	
	Budget Reserve	70,000,000	
	Taxes	478,649,050	
	Interest	177,436,302	
	UST Repayment	2,500,000	
	Coal Bonus	4,840,305	
	Loans/Interest	53,224,980	
	Other	1,138,144	
Total Revenues			$905,388,781
Total Expenditures	Transfer to Water Account III	54,070,000	
	Program Expenditures	751,831,575	
Total Expenditures			$805,901,575
Cash Balance (6/30/07)			$99,487,206
Outstanding Commitments (7/1/07)			
	Active Appropriations	223,729,429	
	Paid	107,654,961	
Total Commitments (7/1/07)			$116,074,468
Total Uncommitted Balance (7/1/07)			($16,587,262)
FY08 - Anticipated Revenues			
	Taxes	19,300,000	
	Interest	4,000,000	
	Other	4,000,000	
Total - FY08 Revenues			$27,300,000
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			$81,900,000
	BALANCE AVAILABLE FOR APPROPRIATION		$65,312,738
	Less Non Project Appropriations		($11,484,023)
	BALANCE AVAILABLE FOR APPROPRIATION		**$53,828,715**
	2008 Omnibus Water Construction Bill		($20,600,078)
	2008 Omnibus Water Planning Bill		($5,165,000)
	BALANCE		$28,063,637

WYOMING WATER DEVELOPMENT OFFICE
Fiscal Projections

Water Development Account No. 2 - Rehabilitation Program
W.S. 41-2-124(a)(ii)

Total Revenues			
	Taxes	121,076,053	
	Interest	37,707,376	
	Federal Mineral Royalty	5,000,000	
	Budget Reserve	2,000,000	
	Loans/Interest	27,510,896	
	Other	185,032	
Total Revenues			193,479,357
Total Expenditures			160,284,762
Cash Balance (6/30/07)			33,194,595
Outstanding Commitments (7/1/07)	Active Appropriations	51,725,797	
	Paid	15,653,110	
Total Commitments (7/1/07)			36,072,687
Total Uncimmitted Balance (7/1/07)			(2,878,092)
FY08 - Anticipated Revenues	Taxes	3,300,000	
	Interest	1,100,000	
	Other	1,700,000	
Total - FY08 Revenues			6,100,000
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			18,300,000
	BALANCE AVAILABLE FOR APPROPRIATION		15,421,908
	2008 Omnibus Water Construction Bill		**(10,299,525)**
	2008 Omnibus Water Planning Bill		**(500,000)**
	BALANCE		4,622,383

WYOMING WATER DEVELOPMENT OFFICE

Fiscal Projections

Water Development Account No. 3 - Dam & Reservoir Program

W.S. 41-2-124(a)(iii)

Total Revenues			
	Budget Reserve	58,043,656	
	Transfer from Water Development Acct I	54,070,000	
	Taxes	1,550,256	
	Interest	5,730,325	
Total Revenues			$119,394,237
Total Expenditures			$1,319,290
Cash Balance (6/30/07)			$118,074,947
Outstanding Commitments (7/1/07)			
	Active Appropriations	10,686,000	
	Paid	710,012	
Total Commitments (7/1/07)			$9,975,988
Total Uncommitted Balance (7/1/07)			$108,098,959
FY08 - Anticipated Revenues			
	Taxes	800,000	
	Interest	2,200,000	
Total - FY08 Revenues			$3,000,000
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			$9,000,000
	BALANCE		$117,098,959
	2008 Omnibus Water Planning Bill		($1,100,000)
	BALANCE		$115,998,959

Omnibus Bill-Planning

		New Appropriations		Reversions		
Level I Projects-New Development	WDA I	WDA II	WDA III	WDA I	WDA II	WDA III
Cody Master Plan	100,000					
Evansville Master Plan	150,000					
Gillette Regional Master Plan	350,000					
Kemmerer-Diamondville Master Plan	100,000					
Lander Master Plan	100,000					
Laramie County Aquifer	25,000					
Pine Bluffs Master Plan	80,000					
Pine Haven Master Plan	100,000					
Rawlins Master Plan	150,000					
South Circle Master Plan	50,000					
Wind/Bighorn River Basin Plan	500,000					
Wright Master Plan	100,000					
Statewide Water Research (UW)	300,000					
Total	2,105,000					
Level II Projects-New Development	WDA I	WDA II	WDA III			
Alpine Master Plan Update, Phase II	85,000					
Farview Water Supply	375,000					
Glendo Water Supply	150,000					
Jamestown/Rio Vista Water Supply	75,000					
Mile-Hi Water Supply	75,000					
Northern Arapaho Groundwater	685,000					
Owl Creek Water Supply	75,000					
South Thermopolis Water Supply	75,000					
Wamsutter Groundwater	800,000					
Total	2,395,000					
Level I Projects-Storage	WDA I	WDA II	WDA III	WDA I	WDA II	WDA III
Nowood River Watershed			300,000			
Thunder Basin Watershed			300,000			
Total			600,000			
Level II Projects-Storage	WDA I	WDA II	WDA III	WDA I	WDA II	WDA III
Cottonwood / Grass Creek CRM			250,000			
Little Snake Supplemental Storage			250,000			
Total			500,000			
Level II Projects	WDA I	WDA II	WDA III	WDA I	WDA II	WDA III
Cody Canal Rehab, GIS		200,000				
Greybull Valley Rehab, GIS		150,000				
Willwood Rehab, GIS		150,000				
Total		500,000				
Groundwater studies	500,000					
Office of Water Programs (UW)	165,000					
Mitigation North Platte Drainage System				100,000		
Total-Omnibus Planning	5,165,000	500,000	1,100,000	100,000	0	0

Omnibus Bill-Construction

	New Appropriations			Reversions		
Level III Projects-New Development	WDA I	WDA II	WDA III	WDA I	WDA II	WDA III
Cowley Transmission Pipeline	1,366,800					
Gillette Fort Union Wells	6,970,000					
Glenrock Well	520,000					
Greybull Pipeline and Well Improvements	1,470,000					
Laramie Transmission Pipeline	880,000					
Lovell Transmission Pipelines	1,299,800					
Total	12,506,600					
Level III Projects-Rehabilitation	WDA I	WDA II	WDA III	WDA I	WDA II	WDA III
Big Horn Canal Lining		500,000				
Casper's Rock Creek Dam Rehabilitation		834,150				
Cheyenne's Granite Dam Spillway Improvements		670,000				
Gooseberry Rehabilitation		1,190,000				
Heart Mountain Rehabilitation		1,574,500				
Sidon Rehabilitation		405,000				
Taylor Ditch Siphon		496,915				
Sponsor's Inflation Fund-Rehabilitation		500,000				
Total		6,170,565				
		Revised Appropriations			Reversions	
Level III Projects-Prior Projects	WDA I	WDA II	WDA III	WDA I	WDA II	WDA III
Torrington Water Supply	-1,107,217					
Little Snake River Small Dams Phase II	185,000					
Buffalo Water Storage Tank				340,000		
Moorcroft Madison Well Water Supply	1,615,900					
Byron Raw Water Supply		-103,000				
Highline Canal Rehabilitation		277,050				
Albin Pipelines and Well Rehabilitation		0				
Gillette Fort Union Well Field, Phase I				892,000		
Stonegate Water Supply					130,000	
Dubois Well No. Eleven Supply	210,000					
Pine Bluffs Lance, Fox Hills Well	110,240					
Wardwell Water Supply Improvements	2,716,180					
Thermopolis Storage Replacement and Rehab		1,804,910				
Lander Paleozoic Well				715,000		
Northern Arapaho Well and Transmission				3,200,000		
Saratoga Well Field	4,363,375					
Alpine Water Supply	0					
Cody Canal Rehab		1,250,000				
Heart Mountain Lining		900,000				
Total	8,093,478	4,128,960		5,147,000	130,000	
Total-Omnibus Construction	20,600,078	10,299,525		5,147,000	130,000	

CHAPTER 4. STATISTICAL INFORMATION

2008 Project Reports

A typical water development project proceeds through the following levels, however, some levels may be bypassed if there is pertinent existing information available on the 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.

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: Afton Well

LEVEL: III
SPONSOR: Town of Afton
LOCATION: Lincoln County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	123	1990	II	$57,000	1992
Level III	231	1991	II	$2,600,000	N/A
Level III	96	2000	II	$450,000	N/A
Level III	105	2006	I	$250,000	2010

PROJECT INFORMATION:

The Town of Afton's primary water supply is the Periodic Spring, which heads in Swift Creek Canyon about six miles west of town in the Salt River Range. This feature has served the town for over fifty years. In 1991, the WWDC funded (Level III) the placement of a municipal well in town that has supplemented the spring supply as needed for maximum demand periods and/or when the spring is cycling at low ebb flows. The Town was particularly concerned late in 2003 when a boil order was instituted by EPA on water supplies as the result of a coliform detection at the Periodic Spring source. Any future adverse problem at the spring would result in a serious water shortage situation.

In 2004, the Town requested funding from the WWDC Ground Water Exploration Grant Program for an exploratory well to provide an additional supply to the municipal system. The Town completed construction and testing of the new municipal well in the spring of 2005. The new well will complement the town's existing supply sources in terms of reliability, redundancy, and providing for future demand.

The construction work of connecting the well into the system was bid in late December, 2007 and is planned to be completed by April of 2008.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

02. PROJECT: Albin 2005 Well

LEVEL: III
SPONSOR: Town of Albin, Incorporated Municipality
LOCATION: Laramie County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	7	2002	II	$160,000	2004
Level II	34	2004	II	$140,000	2006
Level III	147	2005	I	$171,000	2009
Level III	105	2006	I	$ 56,280	2010

PROJECT INFORMATION:
The 2002 Level II Albin Water Master Plan Study recommended an extension and budget increase for continuation of test drilling for emplacement of a new municipal well. The original test drilling conducted installed seven (7) pilot wells at various locations in and near town. Test drilling revealed unexpected complexities in the Arikaree and Ogallala Formations that resulted in varied yet mostly inadequate yield potential. One location immediately west of town was discovered to have suitable production characteristics for siting a production-size municipal well. The town requested additional Level II funding to complete test drilling with two (2) more pilot holes and a production-size test well.

The 2004 Level II project continuation encountered difficult drilling conditions at the new site. Three pilot holes were attempted in the Ogallala formation with a direct circulation drill rig. All three holes collapsed preventing the holes from being completed. A forth try with a reverse circulation drill rig was successful. This well was tested and compared to the original Town test wells, with the original test wells being more productive. It was decided to drill a production well at the original test well site. The production well was drilled and produces approximately 125 gpm. The Town will use 6th penny tax money for their 50% share of the project cost.

A second well was drilled in Level II that was not included in the Level III project due to time constraints. The Town of Albin intends to buy the second well and is seeking additional funding to have the well tied into their system. The total cost to incorporate the new well into the system is $84,000. To that end the Town obtained WWDC funding of $ 56,280 as a portion of the increase. The new estimated total project cost is $426,000. In 2007, the legislation was amended to correctly reflect the cost to purchase the two wells. At this time, the project is being constructed. It is expected to complete the first part of 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

03. 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

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. The Town of Albin requested a grant for $20,100. However, WWDC recommend these funds to be acquired from the Sponsor's Inflation Fund if needed. The project is currently being designed. It is anticipated this project will be completed in 2009.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the reversion date for the appropriation be extended from July 1, 2008 to July 1, 2011 to allow for the construction of the project.

04. 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 III	88	2002	I	$ 41,700	2006 (withdrawn)
Level II	75	2005	I	$ 75,000	2006
Level II	99	2006	I	$185,000	2008

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 has requested a second phase to the current study and that the WWDC drill a test well in the area of their existing wells.

The drilling of a third well for Alpine is planned once all the necessary permits have been acquired. This well is expected to increase Alpine's water supply by as much as 600 gallons per minute. Several construction funding requests have been generated from data already available to the sponsor.

This latest request for a budget increase is for an existing project in the Town of Alpine. This project is extending beyond its original timeframe due to the amount of time it took to acquire the Special Use Permit from the U.S. Forest Service to drill the well on USFS land. In addition, the bid advertisement for the well received no bids from local drillers and there is concern that the funding available for the well drilling task is no longer sufficient.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the Level II appropriations be increased from $260,000 to $345,000 or $85,000.

05. 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:
In a current ongoing study for the Town of Alpine, 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 will commence in 2008 with an anticipated start of construction in 2009.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the 2007 Legislative Level III appropriation be amended to require that the Town of Alpine be required to purchase the proposed new well #3 upon its successful drilling and testing.

06. 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 is currently conducting 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 has requested a grant which will be coupled with a SRF loan to purchase greater capacity pumps and upgrade the existing wells, as well as install an emergency power generator for the pumps.

The project received WWDC Level III construction funding in 2006. Replacement of the pumps did not occur in 2006 or 2007 but are scheduled to be replaced during the summer of 2008.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

07. 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 a the remaining work on the well control structures will be completed in the Spring of 2008.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

08. PROJECT: Arapahoe Master Plan

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 at the confluence of the Popo Agie River with the Little Wind River (trib. Wind River). The Arapahoe area water system (operated by Northern Arapaho Utilities) currently has only one water tank to service the needs of the Arapahoe area. If the tank were to fail, it would compromise the ability to maintain an adequate and safe supply to the Arapahoe community. In addition, the existing ground water supply and tank size in the Arapahoe area is insufficient to meet the projected future demands.

WWDC funding was requested to develop a Master Plan for the Arapahoe community system. The study will include investigating the feasibility of additional storage, increased source supply (including a well siting study), and the sizing and alignment of transmission and distribution systems. The results of the study are anticipated to be delivered by mid-2008.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

09. PROJECT: Baggs Water Supply

LEVEL: II
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. The Town is seeking approval a Drinking Water State Revolving Fund loan in conjunction with a Mineral Royalty grant as the remaining fifty (50%) of the project construction funds. 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 and is planning to rebid in early 2008.

<u>RECOMMENDED LEGISLATIVE ACTION</u>:
No legislative action is required.

10. **PROJECT:** **Basin Raw Water Pipeline**
LEVEL: III
SPONSOR: Town of Basin, Incorporated Municipality
LOCATION: Big Horn
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	69	2003	II	$ 202,000*	2008

*50% grant

PROJECT INFORMATION:
This project will construct a raw water transmission supply line from the Big Horn River to the Town's reservoir. The project includes installing new pumps in the existing unused pump house at the Town's abandoned water treatment facility.

The pipeline would be used to supply domestic raw irrigation water for the Town of Basin during periods when the Big Horn canal is out of service. This includes times when the canal is not flowing, as well as times when the canal is under repair. This project would also enable the town to maintain their water right of 3.08 cfs in the Big Horn River.

The town has advised that it does not want to pursue the project due to other increasing financial obligations. The project appropriation will revert back to water development account II on July 1, 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

11. **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 has been pursuing matching funds and in December 2007 was successful in securing the last portion of funding needed from the State Drinking Water Revolving Loan Fund. Engineering surveying and design was begun during 2007 and is scheduled to be completed in the Spring 2008 along with easement and right-of-way acquisition. Construction should begin in the Summer of 2008 with the system beginning to deliver water in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required .

12. 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 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 an integral element as system demand increased. The system has seen increases in demand and recent problems with one of the springs has 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 appropriation of $335,000 from the 2007 Legislature.

The additional funding is to be matched by other sources allowing them to complete their project. To date the district has been unwilling to apply for a loan from State Drinking Water Revolving Loan Program, but continues to seek match money from a third party source.

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

13. PROJECT: Big Horn Canal Lining

LEVEL: II
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

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 Big Horn Canal Irrigation District is seeking Level III funding for the replacement of an existing concrete canal liner. The current liner is severely degraded and the concern of a failure in that segment is 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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced in the Rehabilitation Program to Level III status with an appropriation of $500,000. The recommended financing plan calls for a 67% grant and 33% loan with an interest of 4% and a term of 20 years.

14. PROJECT: Big Horn Regional Ground Water

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	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	2006

See also Big Horn Region Joint Powers Board Pipeline

PROJECT DESCRIPTION:
The WWDC Level II Big Horn Regional Water Supply Study, commenced in 2000, completed an investigation of groundwater potential for a municipal water supply in the southern Big Horn Basin. Eight (8) well sites were investigated within the southern Big Horn Basin that could potentially yield abundant (>500gpm), good quality (<500 mg/l TDS) water. These sites were chosen on the basis of geologic structure, drilling depths, geothermal gradient, distance from known geothermal activity, accessibility, and potential groundwater quality. An extensive review of groundwater data within the southern Big Horn Basin reveals that the most likely aquifer to yield abundant, good quality water is from the Paleozoic-age Madison-Big Horn aquifer system.

The original intent of ground water exploration in Hot Springs County was to establish a southern-basin well field capable of providing yield to match or exceed maximum daily use requirements of Hot Springs County users (including the town of Thermopolis) and provide a supplemental supply to water users, to the north when needed. One well will not feasibly meet this requirement. For example, other source well field configurations serving the joint powers service area utilize multiple wells, i.e., the Worland well field (2 wells), Manderson well field (2 "Wild Horse" wells), and the Greybull supply wells (2 Trapper Creek wells and Shell Canyon well).

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 Aquifer completion. 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.

In late 2004, the Big Horn Regional Joint Powers Board requested a new study that focuses only on additional test drilling to explore the new found potential for a regional water supply. 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.

In 2007, a well siting effort continued in the northern tier of the study area, concentrating on basin margin/mountain flank potential between the Tensleep fault northwest to the Sheep Mountain anticline. A preliminary site for drilling/testing has been chosen at the Cherry Anticline, 6 miles east of Greybull. It is anticipated that test drilling to the Madison Formation aquifer will commence in the spring of 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

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 and 5B have been constructed. Element 1 is under construction with completion expected in 2008. Element 3 is out for bids and Elements 2, 6 &9 are expected to be advertized for the solicitation of bids early in 2008.

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. However, evaluation of existing funding and present and forecasted expenditures reveals a reasonable expectation that sufficient funding may be currently in place to fund a considerable portion of the proposed project. The financial situation of the project will be much clearer next year. At that time, the BHRJPB and WWDC can make a much more accurate evaluation of the amount of additional funding required.

The Joint Powers Board was authorized to complete the final design for the northern system to Kirby and Lucerne Water and Sewer District with existing funds. The final design should include a bid alternate that would increase the size of the proposed pipeline to 12-inch to accommodate additional service in the Thermopolis and surrounding area.

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, including those that are being requested in this project. These upgrades are designed to increase system reliability, improve public health and safety, provide emergency and fire suppression water, and increase overall system operating efficiency. As a small town with limited resources and a stable population, Big Piney has worked since 1994 to develop priorities for improvements that will achieve the most value. The proposed improvements include 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 has proceeded in two phases. The first phase is to install the pipeline connecting Big Piney and Marbleton. This portion of the project is complete. The second phase, including the storage tank was designed, bid, modified and re-bid. Increases in steel prices have put the project above existing funding. The town needed and received additional funds of $ 37,500 in 2005 which allowed them to proceed with the project. Construction work on the new elevated storage

tank and controls was completed in August 2005. The remaining project work which includes a transmission line meter house and construction of a new well has been designed and permitted. Work on this final part of the project should be completed in spring 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

17. PROJECT: Bridger Valley Reservoir Study

LEVEL: II
SPONSOR: Bridger Valley Joint Powers Board
LOCATION: Uinta County
PROGRAM: New Development

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. Additionally, water conveyance to the Jack Hollow site presents a problem. The study is being continued through a Level II Phase II effort and will examine less costly alternatives for developing the Jack Hollow site and conveying water to the reservoir. 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. The project sponsors have requested (letter 8/14/06) the WWDC to continue this Level II, Phase II study in 2007 in order to complete initial designs and finalize construction costs of all potential storage sites. The study is currently underway and on schedule.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

18. 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 (SAWS), 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 would like to evaluate the need to supply water to areas surrounding the town and the potential water supply sources. SAWSS would like to have their existing boundary area evaluated, their existing and future water distribution system requirements reviewed, and have the need for additional raw water storage evaluated. LDCC would like 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 is progressing as expected. Three sampling events have occurred on Lake DeSmet to determine its ability to serve as a regional water source. The report is nearing the draft stage.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

19. PROJECT: Buffalo Water Storage Tank

LEVEL: III
SPONSOR: Town of Buffalo, Incorporated Municipality
LOCATION: Johnson
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	7	2002	I	$ 50,000	2004
Level III	69	2003	I	$ 2,152,500	2008
Level III	147	2005	I	$ 550,000	2008
Level III	105	2006	I	$ 576,870	2010

PROJECT INFORMATION:
In October 2002, a Level II study as completed for the Town of Buffalo to determine the costs and feasibility of constructing an additional storage tank assist the town in meeting its anticipated long-term water demands. From the Level II study, two projects developed; a buried concrete tank and connecting pipelines between the buried concrete tank and the town's water treatment plant.

Bids for the buried tank and pipeline projects were opened September 28, 2005. The bids exceeded the engineer's estimated construction costs; subsequently the town pursued additional funding from the State Revolving Fund (SRF) and from WWDC to construct the projects. The town's SRF and WWDC funding requests were approved and construction on the pipeline and tank projects commenced November 2005 and December 2005, respectively. The completion date for both projects is anticipated in the spring of 2008.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC is recommending that the reversion date for the funds be accelerated from 2010 to 2008 to allow for the reversion of any unspent funds to water development account I on July 1, 2008.

20. PROJECT: Burlington Regional Master Plan

LEVEL: II
SPONSOR: Town of Burlington
LOCATION: Big Horn County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	15	1996	I	$75,000	1998
Level III	45	1997	I	$360,000*	2000
Level II	75	2005	II	$75,000	2006

*60% grant

PROJECT INFORMATION:
In 1996, a Level II report was completed by MSE/HKM. The report noted several deficiencies in the water system including inadequate chlorination, flow bottlenecks, minimal fire flows, and unprotected shallow alluvial wells. The Level III project implemented a well head protection area around the existing wells, construction of a larger 8-inch pipeline from the wells to the water storage tank, installation of a gas chlorination system, and replacement of existing well pumps in the two production wells with larger capacity units.

In 2003, a Level II study was completed by BRS, Inc. for the Big Horn Regional Water Supply project. The study examined the feasibility of expanding the joint powers service area in Big Horn County. Potential rural users who have shown interest in regional supply include those west of Basin to the area centered at Otto. The town of Burlington may also benefit from regional supply. The town has requested a study of alternate water sources as well as an update of their current water system.

The town of Burlington currently possesses two shallow alluvial wells with a transmission and distribution system. In most years, during peak demand in the summer, the wells do not supply enough water for the town's needs. Otto, which is not an incorporated town, does not have a public domestic water supply. The residents of Otto and areas surrounding Burlington and Otto

rely on water haulage or private shallow alluvial wells with very poor water quality. The town requested a study of alternate water sources, including the purchase of water from either the Big Horn Regional Joint Powers Board or the South Big Horn Regional Water Supply Joint Powers Board. In addition, they requested a study of the town's current water system with potential to expand to undeveloped town areas. The study was contracted to TST Inc. of Denver. The final report was received in February 2007.

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

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

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.

The sponsor has requested that this project be redesigned as a piped gravity feed system using the Sidon Canal as the source. There will be minimal head developed in the pipeline, but users will still be able to either flood irrigate or install individual sumps and pumps and sprinkle irrigate. Further the sponsor has requested that the funding be changed to be a WWDC grant to purchase materials and a WWDC loan to finance engineering fees, including the fees previously incurred on this project with previous design efforts. All other costs including installation of the pipelines and appurtenances will be borne by the sponsor. The re-design should begin in 2008 and be followed with construction over about a three year period. The date for funds to revert to the water development account should be extended to accommodate this new schedule.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the Level III appropriation of $1,664,000, consisting of $1,040,000 grant for 50% of project expenses and $624,000 loan for 30% of project expenses, be changed to a total of $1,561,000. The appropriation shall include a grant of $1,126,000 to be used only for the purchase of invoiced materials. The appropriation shall include a loan of $435,000 at 4.0% interest for a 30-year term to be used to finance past and future engineering expenses. The sponsor is responsible for financing the balance of project expenses, plus constructing the project. With the change in the amount appropriated, there will be a reversion of $103,000 to the water development account.

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 recently (2003) formed rural district located less than 5 miles east and north of Newcastle. Stetson Engineering, Inc completed a regional feasibility, cost analysis, and well siting study for Canyon I & S District in a 2003 Level II study. The study considered connecting Canyon users to existing supply and transmission infrastructure in and adjacent to Newcastle versus a stand-alone supply /storage/transmission/distribution system that could possibly tie into and enhance the regional system.

The preferred alternative is to provide water supply to Canyon users by construction of a new well facility and supply system. Test drilling began in late October 2004. Results of the drilling and testing program should be available by mid November to confirm the source supply component of the project. A high capacity well discovered at a Canyon District location may prove to be an asset to the regional system since it could easily tie into the Salt Creek District system.

In 2005, the Canyon Improvement and Service District has been working on a funding package to fund their 50% sponsor match and well purchase for this on going Level III project. After redesign of components to reduce costs and meet requirements of federal funding agencies the District concluded that they could not afford the project. The district decided to approach WWDC and ask for an increase in the project's total budget from $1,480,000 to $1,527,000, an increase in the percentage of grant appropriation, and 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 Canyon Improvement & Service District received additional grant funds from WWDC in 2007. In addition, they requested and received additional funding thru RUS. A new estimated total project cost for this project is $2,482,900. The total eligible project costs for this project is $2,175,523. This project is currently being designed and will hopefully be constructed 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, Worthington, Lenhart and Carpenter, Inc. is designing a pipeline to replace the Lateral 57 open ditch. The improvement should facilitate efficient water delivery. Construction is anticipated in the fall of 2008 and should be complete prior to the 2009 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 GIS**
LEVEL: II
SPONSOR: Casper Alcova Irrigation District
LOCATION: Natrona County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

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

PROJECT INFORMATION:
Casper Alcova 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. The District wanted to have their system mapped digitally to create a fully integrated GIS that would assist in the long term planning and management of the conveyance system and control structures. This involves mapping the main canals and laterals and each structure, along with condition estimates which would be placed into a database to allow the District to modernize their maintenance schedules and create a dynamic, updateable map of the District.

This project is complete except for the publishing of the final report. The infrastructure and conveyance system was mapped in its entirety and placed into a GIS, which was delivered to WWDC.

RECOMMENDED LEGISLATIVE ACTION:
No further legislative action is required.

25. **PROJECT:** **Casper Zone II- Phase II**
LEVEL: III
SPONSOR: City of Casper
LOCATION: Natrona County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	147	2005	I	$1,300,000*	2009

*50% Grant

PROJECT INFORMATION:
Due to the rapid growth in the East Zone II area of Casper, the city is expanding its storage and transmission facilities that serve the area. The first phase of the project has been completed.

A consulting engineering firm was retained to design the project, which consists of several transmission pipelines. The design has been completed. Construction is nearly complete and is within budget.

RECOMMENDED LEGISLATIVE ACTION:
No legislative is action required.

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.

RECOMMENDED LEGISLATIVE ACTION:
No legislative is action required.

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

EXISTING LEGISLATION:
None

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 should be added to monitor seepage at the toe of 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:

- Slip line the 36-inch diameter steel reservoir outlet pipe.

Phase III:

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

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends only Phase I and II of the project be funded at Level III in the amount of $834,150 from the Rehabilitation Account. This represents a 67% grant of the Phase I and II project eligible costs.

28. PROJECT: Cheyenne Belvoir Ranch Level 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.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

29. 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:

None

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.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends the project be funded at Level III in the amount of $670,000 from the Rehabilitation Account. This represents a 67% grant of the project eligible costs.

30. PROJECT: Cheyenne/Laramie County Water Service Area

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	99	2006	I	$450,000	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 has 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 I study drilled five test holes. One hole was tested and plugged, two were completed as monitoring wells, and one was completed as a production size test well. The last hole was drilled and cased as a production well and leased to the County for one year. The County than placed the well into temporary production for use by a lessee of the land, until the permanent construction of the water system and purchase of the wells. The regional expansion portion of the project, a pipeline from the Cheyenne Board of Public Utilities water system, will be completed in early 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.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

31. PROJECT: Cheyenne Raw Water Supply #2

LEVEL: III
SPONSOR: City of Cheyenne
LOCATION: Laramie County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	8	1995	II	$250,000	1996
Level III	45	1997	II	$1,800,000*	2000
Level III	69	2003	I	$5,000,000*	2008

*50% grant, 50% loan @ 6%, 30 years

PROJECT INFORMATION:

The 1997 Legislature authorized WWDC funding in the amount of $1,800,000 (50% grant, 50% loan) to construct the first phase of a raw (untreated) water system to economically provide irrigation for parks, golf courses, cemeteries and recreational fields in the city. Under the first

phase, an existing 16-inch water main was converted from transmitting treated water to conveying raw water for irrigation use at Lion's Park and at three 18-hole golf courses located in the northwest part of the city. This phase of the project resulted in a 3 million gallons per day (mgd) reduction in peak day demands for treated water.

The 2003 Legislature authorized funding in the amount of $5,000,000 (50% grant, 50% loan) for Phase II of the project, which originally was intended to extend the raw water system from the Sloans Lake/Lions Park area further east, across the municipal airport to the Prairie View Golf Course area. This would enable the system to serve the four cemeteries south of the airport, the Morrie Avenue/Airport parkways, the Veterans Administration grounds, East High School grounds and athletic fields, two softball field complexes, the golf course, two baseball field complexes and two soccer field complexes. The irrigated lands served would be approximately 200 acres resulting in another 1.5 to 2.0 mgd savings in peak day treated water demands. A 1996 States West Water Resources Level II Water Supply Study indicates that each 1 mgd in reduced water treatment capacity saves approximately $1.3 million in capital costs plus a significant reduction in yearly operation and maintenance costs.

During 2004, the design work on the project was temporarily suspended, while the City of Cheyenne determined whether to proceed with a raw water irrigation system expansion eastward from the Sloans Lake area or to provide the raw water irrigation source from the treated effluent of the Crow Creek waste water treatment plant. A final determination was made by the city in the spring 2004 to pursue an additional Clean Water State Revolving Fund (CWSRF) loan to construct advanced treatment facilities at the Crow Creek Wastewater Plant in order to meet Department of Environmental Quality effluent standards for the irrigation of public areas. The additional CWSRF loan was approved in August 2004, allowing the City to make a final determination to use treated wastewater effluent as the additional raw water irrigation source. Construction of the advanced treatment facilities at the Crow Creek Wastewater Treatment Plant were substantially completed in December 2005. Design and completion of plans and specifications for the wastewater effluent transmission lines and storage facilities were completed during 2005. Construction started in early 2006 and was completed mid 2007. The consultant is completing the required documentation for the project and will be finished in early 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

32. **PROJECT:** **Cheyenne Supply Pipeline**
LEVEL: Level III
SPONSOR: City of Cheyenne
LOCATION: Laramie County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	74	1993	I	$250,000	1994
Level II	8	1995	II	$250,000	1996
Level III	96	2000	I	$11,000,000*	2004
Level III	69	2003	I	$2,000,000*	2007
Level III	114	2005	I	$1,000,000*	2007

* 60% grant; 40% loan (7.25%, 30 years)

PROJECT INFORMATION:

In 1992, the CBPU requested funding for several projects. The WWDC suggested the CBPU complete a master plan to prioritize future improvements. The city's existing master plan had become dated and did not address the latest EPA requirements.

In 1993, the Wyoming legislature approved funding to update the Cheyenne Water Supply Master Plan. In 1994 the master plan was completed. The plan identified needed improvements, suggested priorities, estimated costs, and now serves as a planning tool for the city. Approximately $62,000,000 in needed capital improvements has been identified. The identified improvements include an extensive upgrade to the CBPU Sherard Water Treatment Plant and several transmission system improvements. These improvements were prioritized and recommended for completion by the year 2007. Additional Level II analysis was recommended to refine designs and cost estimates.

In 1996, a Level II study of the Cheyenne Water Supply System was completed. Conceptual designs and cost estimates were prepared for 1) a raw water system to irrigate parks and golf courses, 2) improvements to the raw water lines feeding the water treatment plant, 3) a new water transmission main to the east side of Cheyenne, 4) corrosion analysis, and 5) improvements to the Supervisory Control and Data Acquisition System.

WWDC funding was authorized during the 2000 Legislature in the amount of $11,000,000 (60% grant, 40% loan) to construct a portion of a second raw water supply line from Crystal Reservoir to the new Sherard water treatment plant. The new 36-inch line's total length is approximately 15 miles. The City of Cheyenne proposed to build approximately 12.1 miles of the lower part of the 36-inch line as the first phase of the project, based upon a project estimate of $11,000,000 and the knowledge that existing lines and the line extension to that point would be able to provide 36 MGD flows to the new Sherard water treatment plant. The remaining upper 3 miles of the 36-inch line would then be built as a future Phase II as flow demands in Cheyenne increase beyond 36 MGD. When Phase II of the 36-inch line is completed, total flow capacity of existing and new lines is estimated to be 58 MGD.

Excellent competitive bids on the first phase of the project allowed the City of Cheyenne to extend the first phase of the project an additional 1.6 miles beyond the original 12.1 miles, increasing the raw water delivery capacity to the Sherard water treatment plant to 48MGD. The remaining 1.3 miles from the Hecla diversion to the Crystal Dam and Reservoir, providing final pipeline capacity of 58MGD, were completed as part of Phase II of the project.

The City was cautioned by their engineer not to utilize the full increased capacity of the pipeline (48MGD – 58 MGD) until the outlet works at Crystal Reservoir are modified to safely handle the increased flow. In 2002 the City of Cheyenne requested and received approval to change the original 2000 Legislation to amend the original project scope to include the modification of the Crystal Dam outlet works, pipes, valves and flow control building; and to increase the project appropriation by $2 million to complete this work along with the final 1.3 miles of pipeline through the Crystal Canyon.

Design for the Crystal canyon extension was completed in May 2003, with plans to bid the project in December 2003. However, in October 2003, the Army Corps of Engineers (ACOE) notified the City that it would require the City to obtain an individual 404 permit before allowing construction of the final phase. The ACOE 404 permit process was arduous, slow and difficult to comply with. The City was directed to conduct studies/surveys and resolve issues relating to the

Preble's Meadow Jumping Mouse, Bald Eagle nesting sites, Ute Ladies-tresses Orchid, Platte River Depletions, Wyoming Historic Preservation Office Class II cultural survey, National Register of Historic Sites, wetlands mitigation, fish habitat mitigation, along with a detailed analysis for project justification and project alternatives review.

As a result of the ACOE 404 permit studies, the final project phase was delayed approximately one year. The delay directly led to an increase in project costs that includes: (1) Steel pipeline price increases, (2) General inflation to materials, labor, fuel and supplies, (3) 404 study/ survey costs, (4) Expenses related to environmental issues such as Bald Eagle nesting, wetland and fish mitigation, (5) Limited construction season between August 15th – February 15th which doubled the construction seasons along with requiring construction during the fall and winter. Total Project costs for Phase I pipeline; Phase II pipeline and dam outlet modifications was estimated to be $14,000,000. Construction started in August 2005. The project was completed 2007 and the consultant is completing the required documentation for the project and will be finished in early 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

33. 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	2008

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, sometimes very large quantities, 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 by mid-2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

34. **PROJECT:** **Coates Road Water Supply**
LEVEL: III
SPONSOR: Coates Road Improvement & Service District
LOCATION: Natrona County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	7	2002	I	$100,000	2004
Level III	69	2003	I	$275,000	2008

PROJECT INFORMATION:
The South Garden Creek Level I Study looked at the potential of adding the area south of Casper (and alongside Casper Mountain) to the City of Casper's public water supply system. Five service areas were identified in the Level I Study, including: Squaw Creek/Wolf Creek, South Garden Creek, Elkhorn Valley, Coates Road and Pursel Lands. The preferred water supply source for the Coates Road service area was identified as the City of Casper water system as an outside City wholesale water customer. The area would construct a water system with smaller water lines that provide for only domestic uses. Additionally, the area would own, operate and maintain their system, and perform the meter reading, billing and the repair processes.

An appropriation of $275,000 for 50% of the eligible cost of the improvements was approved by the 2003 Legislature. The district has thus far been unsuccessful in obtaining the remaining 50% to begin the project.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required. The sponsor has not actively pursued the Level III project and the funding associated with this project will revert back to water development account I on July 1, 2008.

35. **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	$250,000	2006
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 power. The District requested a Level II - Phase II hydropower analysis on the Purvis Drop structure.

The 2007 Level II, Phase II project Consultant is analyzing the irrigation flows collected during the 2007 irrigation season and will produce a report in 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

36. 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

*67% grant, 33% loan (4%, 20 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 is anticipated to begin in the fall of 2008 and be complete 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:
The WWDC recommends that the construction phase funding of $1,250,000 be added to the previously appropriated design phase of this Level III project resulting in a total appropriation of $1,375,000. The funding will be 67% grant and 33% loan. The grant portion thereof is $921,250 and the loan will be for $453,750 at 4% interest for a 30-year term.

37. PROJECT: Cody Canal Rehab, GIS

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

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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the Rehabilitation Program at Level II status with an appropriation of $200,000.

38. PROJECT: Cody Master Plan

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

PROJECT DESCRIPTION:
The City of Cody had a Master Plan completed in 1986 followed by the Cody Area Water Supply study in 1996. A large portion of the system improvements outlined in these studies have been completed. The City has experienced considerable growth in the last ten years with some major users developing outside the water service area for the system. Due to this growth, the City of Cody is seeking a 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.

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

39. 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 Development Company's (CDC) storage allocation of 14,520 acre-feet. Therefore, the WWDC has included the Smiths Fork among its candidates for state projects to be pursued when the states of Utah and Idaho are able to obtain their share of required project funding.

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.

40. **PROJECT:** **Cottonwood/Grass Creek CRM**
LEVEL: I
SPONSOR: Cottonwood/Grass Creek Watershed Improvement District
LOCATION: Hot Springs County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	II	300,000	2007

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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the Dams and Reservoir Program with an appropriation of $250,000 to fund a Level II, Phase I Study to determine the feasibility for constructing dams and reservoirs within the Cottonwood/Grass Creek watershed.

41. PROJECT: Cottonwood/Grass Creek Watershed Management Plan

LEVEL: I
SPONSOR: Hot Springs Conservation District
LOCATION: Hot Springs County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	99	2006	II	300,000	2007

PROJECT INFORMATION:
The Cottonwood/Grass Creek watershed is approximately 268,372 acres with land ownership divided among private, State, BLM, and Forest Service. There are approximately 4,649 acres of irrigated lands and 3,440 non-irrigated lands within the watershed. The watershed includes the main stem of Cottonwood Creek and its primary tributaries being Grass Creek, Little Grass Creek, and Spring Gulch Creek. There are two active reservoirs in the watershed, Lake Creek Reservoir and Wales Reservoir, and two inactive reservoirs in the watershed, the "Old Phelps" Reservoir and the Grass Creek Causeway Reservoir.

The sponsor would like an inventory and description of the watershed to include basic hydrology, stream geomorphology, an assessment of surface and ground water availability, geology, precipitation, major plant communities, and irrigation infrastructure. The sponsor would also like to seek out potential new storage sites in the watershed that may provide additional irrigation water. A mapped inventory and assessment, with cost estimates, of the various irrigation systems within the watershed are needed to create a rehabilitation plan.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

42. 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	2008

PROJECT INFORMATION:
The study will evaluate 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; and wetlands, 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). However the cost of the construction loan to the CID would be still more than they could afford.

On August 7, 2006, the CID requested the WWDC to continue this Level II study in order for the District to identify the most feasible alternative. Project economics and funding mechanisms will be examined. If a funding package appears possible, further work on the dam design and permitting will be conducted. This study is currently underway and on schedule.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

43. PROJECT: Cowley Transmission Pipeline

LEVEL: New Application
SPONSOR: Town of Cowley
LOCATION: Big Horn County
PROGRAM: New Development

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. Recent repairs show significant stress fractures that run longitudinally down the pipe. This transmission line runs in the corridor from the Town of Cowley to the Town of Deaver.

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

Rehabilitating this system will require installing 32,000 feet of 10" water line and 24,000 feet of 6" line. The project serves 64 taps and could serve as an emergency supply to the Town of Cowley. The Town of Cowley is requesting $ 2,123,900 grant funds from the WWDC. They are currently pursuing a loan from SRF. In addition, they are trying to acquire funding from SLIB.

In 2007, the WWDC recommended limiting the funding to the construction of the 10" transmission pipeline and the design portion of the 6" transmission pipelines. Hence, this project was recommended to receive a 67 % grant 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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be funded with a grant of $ 1,366,800. This appropriation is a 67 % grant for eligible project costs.

44. 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:
Water shortages in the Crowheart and Willow Creek area were evaluated, specifically 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. Results will assist in operation and management of the canal system. Potential improvements were recommended for the irrigation system and a potential reservoir site was identified on Willow Creek. The report was completed in November, 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

45. 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 the use of 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. Therefore, using their surface water right for raw water irrigation will allow them to continue putting this important water right to beneficial use. The town will 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 draft report is due in January of 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required .

46. **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 underway and should be complete prior to the 2008 irrigation season.

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 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.

47. **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.

48. 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 addresses this issue was undertaken in 2007. The study includes an identification of current and projected demands, a hydraulic analyses, conceptual designs for recommended improvements, cost estimates and an economic analysis. Pump tests of the infiltration gallery were also performed during the study. The project is scheduled for completion early 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

49. 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. It is anticipated the results of the study will be available spring 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

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

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, since then the Town has determined that the funds will not be sufficient to construct the project. The Town feels that due to several reasons the project funding needs to be increased. First, the costs of materials, fuel and

labor have increased. Second, the wells output is higher then expected and the transmission line needs to be larger. Finally, the Town has determined that it needs to have a continuous water supply and to ensure that a backup generator is needed on one of its wells.

LEGISLATIVE ACTION REQUIRED:
The WWDC recommends an additional appropriation of $210,000 be added to this existing budget to facilitate completion of the northern water supply project. The funding will be 67% grant and 33% loan.

51. PROJECT: Eden Valley Irrigation District Rehabilitation

LEVEL: New Application
SPONSOR: Eden Valley Irrigation 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:
The Eden Valley Irrigation District wishes to secure WWDC and Bureau of Reclamation Salinity Control funding to convert three laterals within their district from open ditch to pipe. All funding has been secured, which includes salinity control funds being administered by the U.S. Bureau of Reclamation and the Wyoming State Engineer's Office.

The Eden Valley Irrigation District has been working with the USDA-NRCS to develop a plan for the conversion of their major system components into pipe. A consulting engineer has been hired for design review, bidding and construction management of two major laterals. The District is scheduled to bid the project in January 2008 and complete the work by the fall of 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

52. 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. Eight Mile Subdivision and District is located eight miles west of Gillette, just north of the I-90 and Force Road interchange. The district 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 would need to join 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 and proved to be a very good well with both adequate water quality and quantity. The final report recommended that the District 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. The total project budget is $577,386.00; Total WWDC project-eligible costs are $555,000.00.

As of September 2006, the two subdivisions have merged into one service district. It is known as the Eight Mile Improvement and Service District. In addition, the Eight Mile Improvement and Service District acquired funding from SRF.

In 2007, the sponsor has 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.

53. 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 included a more detailed seepage analyses (incorporated entire ditch system including the Blue Hill/Deadman Gulch Laterals) and refined the location of significant seepage losses. All field work has been completed for the study and conceptual level designs and cost estimates to rehabilitate identified "priority" structures within the system are being prepared. The project is scheduled for completion early 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

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

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 is desired 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.

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

55. **PROJECT:** **Farview Water Supply**
LEVEL: New Application
SPONSOR: Farview Water District
LOCATION: Fremont County
PROGRAM: New Development

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 (Farview No. 1, Permit No. U.W. 73136; Homeowners No. 2, Permit No. U.W. 73135), 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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated in the New Development Program at Level II status with an appropriation of $375,000.

56. 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 has a reversion date of July 1, 2004. The sponsor declined to move forward with the project due to financial concerns.

The sponsor was 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 was underway. Easements for the old ditch were never recorded and much time has been 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. There remains a major diversion and drop structures to be repaired. Before proceeding with these improvements, easements and right-of way need to be obtained from the adjacent landowners. An attorney has been working on procuring the easements throughout the year 2007. It is anticipated that these documents will be obtained in early 2008 and the improvements can be completed by the end of 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

57. PROJECT: Frannie Raw Water

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	85	2007	I	$50,000	2008

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 as an oil well but did not produce oil but did have a geothermal artesian flow from the Madison aquifer. The well served the Town for many years until Frannie connected to the Shoshone Municipal Pipeline. The well then served as the raw water supply source. Due to its construction and age, the well progressively decreased in production over time. In 2005, the WWDC authorized a level II study of the well to determine the feasibility of rehabilitating the well to increase its output and production.

The level II study recommended to the Town to request level III funds to rehabilitate the well. These funds were authorized by the Legislature during the 2006 session. However, due to the uncertainty of the construction costs associated with the rehabilitation, the Town has chosen to request another level II study to evaluate the option of a surface diversion out of Sage Creek to provide raw water.

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, wanted 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.

The 2007 Level II project Consultant is analyzing the current system and looking at possible system improvements. The final report will be produce in 2008.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

59. PROJECT: Gillette Fort Union Well Field, Phase I

LEVEL: III
SPONSOR: City of Gillette, Incorporated Municipality
LOCATION: Campbell County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	7	2002	I	$510,000	2004
Level III-I	147	2005	I	$1,000,000	2009

PROJECT INFORMATION:

The Gillette Southern Fort Union Well Field Project consisted of developing 15 wells in the Fort Union Formation approximately 10 miles south of the City of Gillette. The 2004 Level II - Coal Bed Methane-Aquifer Storage and Retrieval Project and Southern Fort Union Well Field Exploration and Development Study concluded with a successful test well in the area delineated to have the greatest composite of saturated sand thickness in the Fort Union Formation near Gillette. In the Level II report, the Southern Fort Union Well Field was anticipated to consist of 15 wells, with a capacity of 300-gpm from each well, and one-mile spacing. The well field project was scheduled to be developed under three phases. The first phase was to further explore the viability of the well field; conduct environmental studies to facilitate future federal funding; initiate easement and right-of-way acquisition; and conduct a pre-design study to better define the overall project and refine the project costs. The second phase was to drill the remaining wells to complete the final project design including collection and transmission pipelines, pump stations, and storage and treatment facilities. The third phase was to construct the project.

Phase I of the project revealed several key project issues. The 2004 Level II report projected future water demands based on an annual population increase of 1.5% per year. Subsequent to the 2004 Level II report, the town has experienced an annual population growth rate of approximately 4% per year. Based on the observed growth rate, additional Southern Fort Union wells would be required to meet the city's long-term water demands.

Another issue revealed under Phase I of the project centered on the anticipated capacity from each of the Southern Fort Union wells. The Level II report indicated an anticipated capacity of 300-gpm from each of the wells. During Phase I of the project, the anticipated individual well

capacity was reduced from 300-gpm to 250-gpm. The reduction in the well capacity was in response to concerns that excessive pumping of the Fort Union Formation could result in increased fluoride concentrations. Fluoride is a natural occurring inorganic constituent found in varying concentrations throughout the Fort Union wells that supply water to the City of Gillette. Fluoride concentrations between 0.7 mg/L and 1.2 mg/L help prevent dental cavities, fluoride concentrations greater than 4.0 mg/L can result in crippling skeletal fluorosis. The United States Environmental Agency (USEPA) has set primary and secondary fluoride contaminant levels at 4.0 and 2.0 mg/L, respectively. Additionally, the National Academy of Science has recently recommended in a report to the USEPA that the fluoride contaminant levels should be lowered.

Lowering the anticipated well capacity from 300-gpm to 250-gpm required increasing the number of wells to provide the capacity required to meet the city's long-term water demands. The additional wells also resulted in an increase in the total length of collection and transmission pipelines required to convey the water to the City of Gillette.

Early in the project, the Southern Fort Union Well Field was identified as having an unlimited water supply to meet the city's long-term water demands; however, later in the project the long-term capacity from the well field was estimated at 6,300-gpm. The long-term anticipated capacity of 6,300-gpm from the Southern Fort Union Well Field could not meet the City of Gillette's anticipated 30-year maximum day water demands.

Due to: 1) the observed population growth rate since 2004, 2) the reduced anticipated capacity from the individual wells, 300-gpm to 250-gpm, 3) the associated increase in the number of wells, from 15 to 25, the increase in the total length of collection and transmission pipelines, and 4) the overall anticipated construction cost of the expanded project, the City of Gillette elected to terminate the engineering contract and to evaluate other source water supply options.

During the summer of 2006, the City of Gillette struggled to meet the water demands from their current source water supply system. To meet the short-term water supply needs, in 2007 the City constructed two new Fort Union wells. Additionally, the city hired a firm to evaluate the city's source water supply options, including the Southern Fort Union Well Field. Morrison Maierle completed their report and recommended constructing a parallel Madison transmission pipeline. The study recommendation by Morrison Maierle was the basis for the 2007 request to WWDC for Level III funding to construct a parallel Madison pipeline.

RECOMMENDED LEGISLATIVE ACTION:
As the project is no longer considered feasible**,** it is recommended that the reversion date for the Level III-Phase I funds be accelerated so remaining funding, approximately $890,000, will revert to Account I on July 1, 2008

60. PROJECT: Gillette Fort Union Wells

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

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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the New Development Program at Level III with an appropriation of $6,970,000 of which 67% will be grant and 33% will be loan with an interest rate of 4% and a term of 30 years.

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 2008.

Phase II of the project will address rehabilitating the interior mortar lining of the pipeline to protect the pipeline from internal corrosion. Phase II is anticipated to commence in early 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

62. **PROJECT:** **Gillette Regional Master Plan**
LEVEL: New Application
SPONSOR: City of Gillette
LOCATION: Campbell County
PROGRAM: New Development

PROJECT INFORMATION:
The City of Gillette is requesting 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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the New Development Program at Level I status with an appropriation of $350,000.

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

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 will require 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. An alternate site with suitable setback distance from the lagoon site and close proximity to Town storage facilities needs to be located. This project is to provide for three additional test boreholes and one production-size municipal well, testing, conceptual designs, etc.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be continued in the New Development Program at Level II with an increased budget appropriation of $150,000.

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 II	85	2007	I	$590,000	2012

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 will be for $194,700 at 4% interest for a 30-year term.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required

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 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

66. **PROJECT:** **Glenrock Well**
LEVEL: II
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

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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced in the New Development Program to Level III status with an appropriation of $520,000. The recommended financing plan includes a 67% grant and 33% loan with an interest rate of 4% and a term of 30 years. In addition, the town will purchase the well constructed during the Level II investigations.

67. **PROJECT:** **Gooseberry Rehabilitation**
LEVEL: Level II
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

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.

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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the Level III Rehabilitation Program with an appropriation of $1,190,000. The appropriation will consist of a 67% grant of $797,300 and a 33% Loan of $392,700 at 4% interest for a term of 30-years.

68. PROJECT: Goshen Irrigation District Master Plan 2006

LEVEL: II
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 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, and re-regulation reservoirs. 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 analyzes as the budget will allow. The Level II report will be completed in 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action 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	81	1999	II	$75,000	2000
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 2009 irrigation season.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

70. 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 is being 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 with design and construction to be completed in 2008 and 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

71. PROJECT: Green River Basin Plan Update

LEVEL: I
SPONSOR: State Project
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 Green River Plan update in July 2007. The contract was initiated in August 2007 with a September 1, 2009 completion date.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

72. 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. Because the model is an integral tool for all future planning, a decision was made to modify the overall scope of the project to afford the consultant the opportunity to concentrate on this task. As a result the original scope of the project could not be completed within the original appropriation.

The 2007 legislature appropriated $220,000 to complete the Master Plan as it was originally scoped and to include an analysis of raw water supply, including ground water sources, and raw water storage alternatives.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

73. PROJECT: Green River Supply Canal

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 final report for this seepage study is available in our office.

The district was awarded level III funding in 2005 to repair several safety problems, under drains, washouts, replace diversion structures, and reshape problem areas identified by the Level II study. The estimated cost for this work is $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 need to be obtained from the adjacent landowners. An attorney has been working on procuring the easements throughout the year 2007. It is anticipated that these documents will be obtained in early 2008 and the improvements can be completed by the end of 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

74. **PROJECT:** **Greybull Pipeline & Well Improvements**
LEVEL: II
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

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 is requesting Level III construction funds for the pipeline improvement project and to install a pump and controls at the Shell Well No. 3.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced in the New Development Program to Level III with an appropriation of $1,470,000. The funding will be 67% grant and 33% loan.

75. **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

*75% grant, 25% loan (4%, 50 years)
**2002 Session laws reduced appropriation to $32,057,458. This is the ongoing budget.
**2005 Session laws extended the reversion date to 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.

76. PROJECT: Greybull Valley Irrigation District Diversion Dam

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.

This project is proceeding on schedule and should be completed in the spring of 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

77. **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, 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.

78. **PROJECT:** **Greybull Valley Rehab, GIS**
LEVEL: New Application
SPONSOR: Greybull Valley Irrigation District
LOCATION: Big Horn County
PROGRAM: Rehabilitation

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. The District would also like a conveyance loss study of the Greybull River below the Lower Sunshine Reservoir outlet.

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

79. 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

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.

CURRENT SPONSOR + ACTIVE/OBLIGATED FUNDS
City of Cheyenne/Board of Public Utitlities (Laramie County): $400,000
Squaw Creek Water District (Teton County): $125,000

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that $500,000 be appropriated from Water Developent Account I for incorporation into the Ground Water Exploration Program.

80. **PROJECT:** **Guernsey Water Supply**
LEVEL: III
SPONSOR: Town of Guernsey
LOCATION: Platte County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	12	2003	II	$40,000	2004
Level III	118	2004	II	$615,000	2008

PROJECT INFORMATION:
In 1994, Guernsey and Hartville submitted applications requesting assistance in evaluating water supply, treatment, storage, transmission and distribution systems. Since the two municipalities are in close proximity and are supplied water from the same source (shallow wells along the North Platte River), the Commission conducted a joint Level I Master Plan study to determine the feasibility of a regional approach to solving the area's water supply problems. The study determined that a combined system was not feasible. Two separate project reports were submitted, with separate recommendations for each community. Guernsey's existing supply source is a series of wells into the North Platte alluvium. This project included replacing one of the older and more vulnerable wells with a new production well, and provided the necessary wellhead appurtenances, controls, and pipeline connections to incorporate the new well into the existing system.

In 1996 the Commission recommended that the project be advanced in the New Development Program at Level III status with a budget of $550,000. The financing plan included a 67% grant and a 33% loan at an interest rate of 4% and a term of 20 years.

In 1997 the new well was drilled and developed. Construction of the new pipeline system was delayed to comply with federal program guidelines as the project was partially funded by the federal Rural Utility Service. These remaining improvements were constructed in 1999.

In the summer of 2002, the Town of Guernsey had its water storage tank inspected. The results indicated a need for a total removal and replacement of the existing coating systems and correction of areas with severe corrosion. The ensuing Level II WWDC project determined that additional items were also needed for the Guernsey system upgrade. These items include upgrades to the SCADA system, upgrades to undersized system mains, dedicated lines from the wells to the storage tank, and an emergency system connection to the Wyoming Army Guard Camp.

The 2004 Legislature appropriated a grant of $615,000 to assist the town with these repairs. However, the town has thus far been unsuccessful in arranging the remaining 50% of the necessary funds for the project.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required. The sponsor has not actively pursued developing the Level III project and the funding associated with this project will revert back to water development account I on July 1, 2008.

81. **PROJECT:** **Heart Mountain Lining Project**
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-I	121	2007	II	$78,000*	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. The sponsor is now requesting construction phase funding.

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

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends construction phase funding of $900,000 be added to the previously appropriated design phase of this Level III project resulting in a total appropriation of $978,000. The funding will be 67% grant and 33% loan. The grant portion thereof is $655,260 and the loan will be for $322,740 at 4% interest for a 10-year term.

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	118	2004	II	$602,110*	2010
Level III	105	2006	II	$132,230*	2010

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

PROJECT INFORMATION:
In 2004 the sponsor received funding to convert two laterals in their system from open channel to PVC pipe. Lateral H28 is 14,000 feet long and serves 700 acres with 13 farm turnouts; Lateral R39 is 9,500 feet long and serves 875 acres with 6 farm turnouts. The sponsor has financed the engineering, land rights, construction labor and equipment, and associated project costs. The WWDC has financed the purchase of materials.

Construction of both Lateral H28 and Lateral R39 is complete. In 2006 the sponsor received an appropriation to address Lateral R15-2N. This lateral is fed from Lateral R15 and experiences shortages during peak deliveries. With about 2,300 feet of pvc pipe and a new headgate structure, R15-2N can be fed from the Ralston Lateral and no longer experience shortages in delivery.

This project is complete except for installation of an overflow pipe to flush trash from the coanda screen in the R15-2N&6N headbox. When constructed, the improvements will reduce seepage losses in laterals and enable the sponsor to increase system efficiencies.

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

PROJECT INFORMATION:
The sponsor continues to replace open ditches with pipelines. Subsequent to a Level II study researching weed screens, the sponsor would also like to install a weed screen at the head of Ralston Lateral. From the fall of 2008 for two winter seasons the sponsor plans to construct the weed screen device and install pipelines and structures for five other laterals. 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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated at Level III in the Rehabilitation Program with an appropriation of $1,574,500. The financing plan includes a 100% grant of $1,574,500 to be used only for the purchase of invoiced materials.

84. PROJECT: Hidden Valley

LEVEL: II
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 2008.

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)

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 is $60,407.65

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the appropriation be increased by $277,050.00 to $808,050.00 and the financing plan be revised to a grant for materials only and that a loan be approved to reimburse the WWDC for previous payments made for engineering services, which becomes the responsibility of the sponsor under the "in-kind services" financing plan.

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.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required

87. PROJECT: Hoback Junction Water Supply

LEVEL: II
SPONSOR: Hoback Junction Water District (pending formation)
LOCATION: Teton County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I*	46	1997	I	$250,000	2000
Level I	75	2005	I	$ 75,000	2006
Level II	85	2007	I	$700,000	2008

(*Teton County Master Water Supply Plan)

PROJECT INFORMATION:
Hoback Junction is located in Teton County at the Hoback River/Snake River confluence and the three-way junction of US HWY 26 and US HWY 89, 13 miles south of the Town of Jackson. The junction area, consisting of residential and commercial properties, has had problems with water quantity and quality since its inception. Single-family residences have dealt with the quantity problem by limiting irrigation of yards, and have remedied the quality problem with in-house treatment units and bottled water. Commercial users, particularly the public water supply systems falling under EPA's jurisdiction, have had difficulty meeting minimum drinking water standards and are utilizing small water treatment units and conservation. There is no fire protection system in place; fire suppression supplies are obtained from the Hoback River or Snake River.

The 2006 Level I study determined the water supply options in the Hoback Junction vicinity, and prepared preliminary designs and cost estimates for a water supply system in the project area. A Level II feasibility study would investigate a system to serve the area centered at the junction and includes funding for a test well for source supply exploration.

Level II funding was contingent on the sponsor forming an entity, i.e., a special assessment district. As yet there has been no activity by the sponsor to undertake this requirement. If the sponsor does not attain the eligibility requirement by July 1, 2008, the funding shall revert to Water Development Account 1.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

88. **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 is currently underway and on schedule.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

89. **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 Natural Resources Conservation Service's (NRCS) is currently in the final design phase with the start of construction anticipated early in 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

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	2008

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 early 2008, EPA will likely be demanding the town provide a safe drinking water supply by any means. The WWDC efforts will be assisting the town in compliance with the EPA order. It is anticipated the study will come to completion by mid-2008.

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.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

92. PROJECT: Jamestown/Rio Vista Water Supply

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

PROJECT DESCRIPTION:
The District is requesting a review of their existing system from the intake to the treatment facility to their storage. Many components are over twenty-five years old and repairs are becoming more frequent. The treatment plant may need to be expanded or decommissioned. The District is also requesting that an expansion of their system be considered so that water can be distributed to all of the lands, and potential users, within their boundaries. The District is interested in the regionalization opportunities that exist due to their proximity to Green River and the proposed development of a truck stop to the west of their district. Recommendations will be accompanied with cost analyses to help the District determine the most cost effective solution for providing water to their existing and future users.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that this project be included in the New Development Program at a Level II with an appropriation of $75,000.

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 was bid December 4, 2007 and construction is anticipated to be completed by summer 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

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

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 JPB is requesting a water master plan to aid in formulating their long range planning objectives.

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

95. **PROJECT:** **Kirby Irrigation District Conservation Program**
LEVEL: II
SPONSOR: Kirby Irrigation District
LOCATION: Hot Springs County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

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

PROJECT INFORMATION:
The Kirby Irrigation District and the Kirby Ditch Company operate a gravity flow headgate and canal system. Water is diverted from the Big Horn River and delivered to approximately 3,200 acres of irrigated lands. There are 47 landowners served on this system. 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 losses. Also of interest is an evaluation of existing structures on the conveyance

facility, 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 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

96. PROJECT: Kirby Municipal Project

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.

97. 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	2008

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 a potential ground water source under-the-influence of surface water, therefore likely requiring surface and 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. Since LaBarge has had no previous WWDC planning assistance, 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 will commence in early 2008 to determine the occurrence of an alternate alluvial source within the bar deposits.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required

98. PROJECT: Lake DeSmet Master Plan and Reservoir Rehabilitation Plan

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 of 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 is currently preparing to apply for additional funding for the project from 2009 Legislative Session funds. In the interim, the district is continuing its efforts on 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.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

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

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, resulting from a series of low snow pack years in the Wind River Range, is taxing the city's ability to meet demands as additional dry years may lie ahead and demand increases. 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 therefore is requesting a master planning effort to assist in decision making for these critical components.

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

100. **PROJECT:** **Lander Paleozoic Well**
LEVEL: II/III
SPONSOR: City of Lander
LOCATION: Fremont County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	7	2002	I	$40,000	2004
Level II	125	2003	I	$540,000	2007
Level III	121	2007	I	$715,000	2012

PROJECT INFORMATION:
The City of Lander is presently dealing with the effects of an extended drought. Diminished flows in the Middle Fork Popo Agie River, has taxed the city's ability to provide water to their customers. Previous Level I and Level II studies explored the potential for developing supplemental and/or replacement shallow ground water sources. The effort was focused on water quality not quantity. The Paleozoic-age aquifer system (Tensleep Sandstone, Madison Limestone, Bighorn Dolomite), along the east flank of the Wind River range, may provide additional drought insurance. This aquifer system has long been recognized as having potential for providing high-quality ground water from wells that could possibly produce over 1000 gpm. To minimize the risk to water users during dry cycles, the city requested an in-depth Phase I groundwater study that identifies an optimal location for drilling a test well that may ultimately be developed for municipal use.

The Level II, Phase I Study revealed several sites along the flank of the Wind River Range near Lander, where a Paleozoic-age Test Well could be drilled. The legislature appropriated funds for drilling a test well in 2003. The Level II, Phase I study identified eight (8) possible drilling sites in reasonable proximity to Lander. With WWDC funding in 2003, a test well was drilled at a site west of Lander, near the Sinks Canyon Road. that fully penetrated the Tensleep Sandstone formation. The resulting well flowed 90 g.p.m. and was pump tested for 7 days at 325 g.p.m. The pump test demonstrated however, that development/operation of the well at that rate would likely impact the water level in nearby Tensleep wells, thus potentially resulting in injury to existing senior ground water rights.

The Town of Lander, not wishing to acquire a source that could have interference issues, acquired additional Level II funding to deepen the well and test the Madison Formation. The budget contains costs for deepening the well and testing the Madison, and for well stimulation (acid fracturing) if appropriate.

In 2007 WWDC recommended the project be continued in the New Development Program at Level III with an appropriation of $715,000. The funding was appropriated by the Legislature at 67% grant and 33% loan. The grant portion thereof was $479,050 and the loan was for $235,950 at 4% interest for a 30-year term. The Level III project was to include construction, pipeline, materials, and appurtenances necessary for incorporation of the WWDC Level II Paleozoic aquifer test well into the existing City of Lander water supply system. Upon completion of the deepening of the well in July 2007 however, it was determined that flows would not meet the minimum required for the sponsor's needs. In November 2007 the sponsor requested cancellation of the Level III funding request.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommendation is to change the reversion date for the Level III appropriation from July 1, 2012 to July 1, 2008 to release the water development account I funds.

101. 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. The study will analyze the current state of the aquifers in Laramie County, and prepare a database and tools to assist the County Commissioners in managing growth in the county.

The 2007 Level I project Consultant is currently analyzing the ground water data in Laramie County. At the November 2007 Commission meeting a motion was approved to increase this study's budget by $25,000 for a surface water supplemental supply task. This task will look at surface water as a source to supplement groundwater shortages in Laramie County.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the current New Development Program Level I project have its budget increased with an appropriation of $25,000.

102. PROJECT: Laramie East Side Tank

LEVEL: III
SPONSORS: City of Laramie
LOCATION: Albany County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	88	2002	I	$3,955,000	2002
Level III	69	2003	I	$825,000	2007
Level III	121	2007	I	$0	2008

PROJECT INFORMATION:
A Level II study and funding for Level III design for this project was included in the Laramie North Side Water Supply Project, which was funded by the legislature in 2001 and 2002. The purpose of this project is to construct transmission lines, water storage facilities, and pump stations for the City of Laramie. The Level II study recommended that additional storage and new transmission lines be installed to provide a more reliable water supply to the East side of Laramie.

The level II study recommended that the construction of this project be undertaken utilizing a multiple phase construction process. During design the Engineers identified a new alternative that resulted in a significant savings to the State of Wyoming and to the City of Laramie. This new design resulted in the elimination of the third construction phase of this project.

Phase one was funded during the 2002 legislative session, and included the construction of the transmission lines and the tanks. The City of Laramie requested $825,000 for Phase II of this project. Phase II was approved during the 2003 session and included the installation of a new pump station and the rehabilitation of an existing pump station. The construction of Phase I and Phase II is now complete. The forty-one day advertising has begun and should be completed sometime in January.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

103. PROJECT: Laramie Transmission Pipeline

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

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.

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 $880,000 of which 67% will be grant and 33% will be loan with an interest rate of 4% and a term of 30 years.

104. PROJECT: Laramie Water Management Project (meters)

LEVEL: III
SPONSOR: City of Laramie, Incorporated Municipality
LOCATION: Albany County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	105	2006	II	$97,150	2010

PROJECT INFORMATION:
During the Laramie Water Management Level II study investigations it was discovered that there were several large transmission main meters that are in need of replacement. The meters are too old to calibrate and because of their size they are expensive to replace.

In 2006, a Level III Rehabilitation project, named Laramie Water Management Project (meters), was approved and a $97,150 (67 %) grant was appropriated for the design, construction engineering, and construction of the project. The design of this project was completed in 2006.

In 2007, the project was bid. Currently, the project is under construction and should be completed in 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

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.
c. A contingency plan in case there is an emergency interruption of their groundwater supplies. The contingency plan would include a probable cost associated with providing long term treatment of their groundwater.

Funding was approved for the items listed above in 2007. The study is scheduled for completion in December of 2008.

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

106. PROJECT: LeClair Laterals

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.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

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

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

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be continued in the New Development Program at Level III with a net increase in funding of $185,000 to allow for the construction of Grieve Reservoir. The increased funding will be through a 67% grant and 33% loan at 4% interest and a 25-year term.

108. PROJECT: Little Snake Supplemental Storage

LEVEL: New Application
SPONSOR: Savery-Little Snake Water Conservancy District
LOCATION: Carbon County
PROGRAM: Dams and Reservoirs

EXISTING LEGISLATION:
None.

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. However, pursuant to the water sale contract between the State of Wyoming and the District, the amount of water that can be purchased is limited to 12,000 acre-feet. This is due to environmental mitigation requirements stipulated by the project's Clean Water Act Section 404 permit. Whenever demand (sales) exceeds supply (amount of storage), the shortage is prorated among the District's customers. In their application, the District stated that irrigators, during the subscription period for High Savery Reservoir, would have purchased another 2,850 acre-feet of water, in addition to the 1,786 acre-foot in excess of the 12,000 acre-foot High Savery contract limit if it were available.

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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the Dams and Reservoirs Program at Level II status with an appropriation of $250,000.

109. PROJECT: Lovell Transmission Pipelines

LEVEL: New Application
SPONSOR: Town of Lovell
LOCATION: Big Horn County
PROGRAM: New Development

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 the third phase of this project is $10,418,291. Funding for the non-WWDC project eligible portions of the project is being provided by RUS, SLIB, and the Town. This funding request is only for that portion of the project that enlarges and replaces the potable water transmission pipelines. The Town of Lovell is requesting $1,299,800 grant funds from the WWDC. They have obtained a RUS Grant and RUS Loan. This project was 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 $1,940,000.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be funded with a grant of $1,299,800. This appropriation is a 67 % grant for eligible project costs.

110. PROJECT: Lusk SCADA/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 is anticipating 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 is requesting WWDC funds to offset and re-drill a new well next to an abandoned municipal well (original Lusk Well 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 2007 the sponsor executed legal documents with the WWDC and hired M.C. Schaff & Associates, Inc. to design the project. Construction of the project is anticipated to begin in 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

111. 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	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 is collecting water quality samples and studying a reduced pumping program to determine the effects on the water quality. A report will be produced in 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

112. PROJECT: Meade Creek Ditch Rehabilitation

LEVEL: III
SPONSOR: Meade Creek Ditch Company Irrigation District
LOCATION: Sheridan County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	36	2000	I	$100,000	2002
Level II	34	2004	II	$ 75,000	2005
Level III	147	2005	II	$401,250*	2010
Level III	105	2006	II	$0**	2010

*50% grant, 25% loan (6%, 20 years)
**Name of sponsor changed from Tunnel Hill Watershed Improvement District to Meade Creek Ditch Company Irrigation District

PROJECT INFORMATION:
The legislature appropriated construction funding in 2005 to rehabilitate the Meade Creek Ditch drop structure from the inlet structure below the diversion on North Piney Creek through Tunnel Hill to an energy dissipation structure located on the north side of the hill. The proposed drop is to be a 22"HDPE pipeline approximately 560 feet long traversing an estimated 100 feet of vertical drop. The existing erosion on the outfall slope of Tunnel Hill is to be reclaimed by laying back the slopes of the cut, partially filling the channel, and then seeding the repair.

The sponsor plans to utilize WWDC grant funds for 50% of project costs. NRCS will provide some engineering services and eligible cooperators will donate EQIP funds to finance another portion of project costs. To complete the financing package, shareholders of the Meade Creek Ditch Company Irrigation District will pay a one time assessment. Construction is underway and should be completed prior to the 2008 irrigation season, except for reclamation of the existing

erosion on the outfall slope of Tunnel Hill. That work has been delayed indefinitely due to budget constraints and will be undertaken by the sponsor when they accumulate adequate financing in the future. When complete, this project should provide a non-eroding method of delivering water through Tunnel Hill and thus secure the diversion from North Piney Creek from washout.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

113. PROJECT: Middle Piney Reservoir

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	75	2006	III	$200,000	2008

PROJECT INFORMATION:
Middle Piney Dam was constructed in 1940. It is located on Middle Piney Creek in the Bridger National Forest, west of Marbleton and Big Piney. Today the reservoir has several problems and is in need of rehabilitation. They are listed below.

1. The dam needs a new emergency spillway, as the existing emergency spillway is the access road to the dam.
2. The existing outlet pipe does not pass the natural runoff of Middle Piney Creek without storing water.
3. Considerable seepage was noted under the dam in an Army Corp of Engineer's inspection completed in 1979. The dam was given a high hazard classification for damage or loss of life in the event of failure.

The reservoir is currently owned by the Forest Service, but they have indicated they would like to pass ownership of the dam to another entity. Local irrigators will be exploring the possibility of acquiring the reservoir. Due to its present condition, the reservoir is not currently used to store water. Local irrigators would like to investigate their options for rehabilitating and possibly enhancing the reservoir while making it safe for water storage. The irrigators that would benefit from this project may be willing to form a district if the project is determined to be cost effective.

States West Water Resources Corporation was hired to complete the study in June of 2006. To date, they have begun evaluation of the existing structure and associated geology, assessed the Middle Piney Creek hydrology, and commenced preliminary designs on potential alternatives. In addition, they have provided guidance to the local sponsors on forming an irrigation district and coordinating with area agencies to determine potential project limitations and permitting requirements. Currently, States West is commencing a seepage gauging program at the Reservoir that will continue into Spring, 2008. The gauging program will serve three purposes:

1. Help quantify the seepage currently flowing from Middle Piney Reservoir
2. Help determine where the seepage is flowing into Middle Piney Creek
3. Help quantify the yield of Middle Piney Reservoir

The Phase II study is scheduled for completion in the summer of 2008.

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

114. 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.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

115. PROJECT: Midvale Diversion Dam Rehabilitation

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	147	2005	II	$138,000*	2009

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

PROJECT INFORMATION:
Construction of this project to replace gearboxes at the Wind River Diversion Dam is essentially complete. The only remaining work is installation of telemetered monitoring equipment. The Midvale Irrigation District received a grant of $138,000 for 100% of invoiced materials purchased to replace the gearboxes that operate the district's Wind River diversion dam gates. The construction will be performed with district resources at district cost. Engineering, permitting, and other project costs will be borne by the district. Construction will be completed prior to the 2008 irrigation season.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

116. PROJECT: Midvale/Wyoming Canal

LEVEL: II
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. The district has obtained the services of a consultant and has started design for the project.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

117. PROJECT: Mile-Hi Water Supply

LEVEL: New Application
SPONSOR: Mile-Hi I&S District
LOCATION: Natrona County
PROGRAM: New Development

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 by the Central Wyoming Regional Water System (a transmission line of which skirts the service area in question).

A Level II study which evaluates the feasibility of establishing a rural domestic water supply system for the Mile-Hi I&S District is desired. This study shall include service area delineation, current and projected water demands, conceptual designs, an environmental assessment, cost estimates and an economic analysis.

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

118. PROJECT: Mitigation North Platte Drainage System

LEVEL: I
SPONSOR: Select Water Committee
LOCATION: Goshen County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	85	2007	I	100,000	None

PROJECT INFORMATION:
The Omnibus Water Bill-Planning was amended during the 2007 to require the Wyoming Water Development Office to complete this report by November 1, 2007. The primary purpose of the report is to identify the short term and long term strategies for providing replacement water for depletions from wells and diversions from tributaries in a specified area in Goshen County as required by the North Platte Decree. In addition, the report discusses related issues in the Nebraska v. Wyoming law suit and the settlement process.

The report was completed by the WWDO and submitted to the Select Water Committee on November 1, 2007. The report was discussed at the Committee's meeting held on January 15, 2008. The report concludes that the long-term strategy to provide replacement water includes storage water from Wyoming allocation in Glendo Reservoir, the Wyoming Account in the

Pathfinder Modification Project and non-hydrologically connected groundwater wells. Until the Pathfinder Modification Project is completed, the replacement water will be provided through short-term contracts for Glendo storage water and space and the purchase of water from the City of Cheyenne, Pacificorp, and others.

RECOMMENDED LEGISLATIVE ACTION

As the report was completed by the Director of the WWDO, the appropriation is not needed. The Select Water Committee is proposing that the $100,000 be allowed to revert back to water development account I.

119. 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

*67% grant, 33% loan (4%, 30 years) **60% grant

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 sponsor has requested additional grant funding from WWDC due to increases in construction cost, as well as a change from 60% grant to 67% grant. 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.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends $1,615,900 be added to the previously appropriated Level III funds resulting in a total appropriation of $3,865,900 to serve as a 67% grant of eligible project expenses. It is also recommended that the date for funds to revert to the water development account I be extended to July 1, 2011.

120. PROJECT: Northeast Wyoming Interactive Database

LEVEL: I
SPONSOR: Wyoming Geological Survey
LOCATION: Northeast Wyoming
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	86	2001	I	$400,000	2003
Level I	75	2005	I	$575,000	2006

PROJECT INFORMATION:

The coalbed methane development in the Powder River Basin is currently one of the most active in the U.S. These wells collectively produced 58.1 billion cubic feet of gas in 1999. The average water production per well is approximately 12 gpm, which equates to approximately 40 mgd. This water is typically discharged to the surface. BLM projects that a total of 35,000 to 70,000 cbm wells may ultimately be completed.

The purpose of the project is to generate an interactive database that will provide information on the surficial and subsurface geology, groundwater hydrology, and surface and subsurface water quality of part of the Powder River Basin. The study includes the northern half of the basin and was completed in 2004 in by the Wyoming Geological Survey and the University of Wyoming Water Resources Data System in cooperation with the United States Geological Survey-Water Resources Division, the Bureau of Land Management, the Wyoming Oil and Gas Conservation Commission, the Wyoming Water Development Commission, the Wyoming Department of Environmental Quality, and the Wyoming State Engineer's Office.

The project is proposed to be continued in order to complete coverage of the entire basin. The project area is bounded on the north by the 12th Standard Parallel North, on the south by the 8th Standard Parallel, on the east by the basal contact between the Fox Hills Sandstone and Pierre Shale, and on the west by the geologic contact between the Fort Union and Lance Formations. More approximately, the project extends to Douglas on the south, Lance Creek on the east, and Kaycee on the west. It is anticipated that the database product will be showcased in mid-2008.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action required.

121. PROJECT: Northern Arapaho Well & Transmission Project

LEVEL: II/III
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 II	34	2004	I	$700,000	2006
Level II	99	2006	I	$605,000	2008
Level III	121	2007	I	$3,200,000	2012

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 grant portion thereof was $2,144,000 and the loan was for $1,056,000 at 4% interest for a 30-year term. 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 however, 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:

The WWDC recommends the Level II project to be continued in the New Development Program with a increased budget appropriation of $685,000. The WWDC also recommends changing the reversion date for the Level III appropriation from July 1, 2012 to July 1, 2008 to release the appropriation back to water development account I.

122. 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. A new estimated total project cost for this project is $784,000.

In 2007, the sponsor decided to wait on constructing the entire project until all the funding was in place. Currently, this project will be bid in 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

123. PROJECT: Nowood River Watershed
LEVEL: New Application
SPONSOR: Nowood Citizens Advisory Group
LOCATION: Washakie County
PROGRAM: Dams and Reservoirs

EXISTING LEGISLATION:
None

PROJECT INFORMATION:
Citizens of the Big Horn Basin are requesting 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.

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

124. **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.

The sponsor spent a good part of 2007 acquiring easements and having the project designed. Construction is anticipated to begin in 2008 and be complete in 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

125. **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 purpose of this study is to conduct a watershed evaluation of the Owl Creek drainage with emphasis on storage possibilities for the upper and middle areas and potential water conservation. The Level II report will be completed early 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

126. PROJECT: Owl Creek Water Supply

LEVEL: I
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

PROJECT DESCRIPTION:

Residents west of the Town of Thermopolis are interested in evaluating the potential of constructing a rural water system. The study area is approximately 40 square miles consisting of the Highway 120 corridor from the Town of Thermopolis to Highway 170 (Hamilton Dome Rd), the Sage Valley Subdivision, Mud Creek basin, Missouri Flats development area, and the Owl Creek basin from Highway 120 to the Arapahoe Ranch. It includes over 100 deeded land parcels, consisting of rural residences, ranchettes, agriculture, and the Sage Valley Subdivision. The Sage Valley Subdivision has a total of 79 lots, 20 have been sold, and Sage Valley, Inc owns all of the remaining lots. The existing water supplies are poor quality wells or hauled water.

The final Level I report recommended a water system with the water coming from the Town of Thermopolis. A Level II study will refine costs, define a final service area, and develop a recommended configuration for the project.

RECOMMENDED LEGISLATIVE ACTION:

The WWDC recommends the project be advanced in the New Development Program to Level II status with an appropriation of $75,000.

127. PROJECT: Pathfinder Modification Project

Level: III
Sponsor: State of Wyoming
Location: Platte River Basin
Program: Dam and Reservoir, Water Account III

EXISTING LEGISLATION:

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

PROJECT DESCRIPTION:

Pathfinder Dam was completed in 1909 and is located on the North Platte River about 3 miles below its confluence with the Sweetwater River and about 47 miles southwest of Casper, Wyoming. In the years since construction, accumulated sediment has reduced the reservoir's original storage capacity from 1,070,000 acre-feet to 1,016,507 acre-feet—a loss of 53,493 acre-feet. The Pathfinder Modification Project would restore the capacity of the existing Pathfinder Reservoir to 1,070,000 acre-feet. The modification would raise the elevation of the existing spillway by approximately 2.4 feet. The recaptured storage space would store water under the existing 1904 storage right for Pathfinder Reservoir and would enjoy the same entitlements as other uses in the reservoir, except that the recaptured storage space could not "place regulatory calls " on existing water rights upstream of Pathfinder Reservoir other than the rights pertaining to Seminoe Reservoir. The Pathfinder Modification Project is authorized by Appendix F to the Final Settlement Stipulation for the Nebraska v. Wyoming law suit.

Approximately 34,000 acre-feet of the recovered 54,000-acre-foot volume would be accounted for as a Pathfinder Environmental Account (EA) and operated for the benefit of the endangered species and habitat in central Nebraska. It is expected that any water accruing to the Pathfinder EA would be moved downstream to the Lake McConaughy EA in September of each year. The Pathfinder EA yields approximately 25,000 acre-feet of water.

Water from the EA will be Wyoming's water contribution to the Platte River Recovery Implementation Program (Program) on behalf of its water users. The Program will serve to resolve conflicts between the administration of the federal Endangered Species Act and water use in the Platte River basin that have occurred since the late 1970's. Please refer to the report on the Platte River Recovery Implementation Program.

The State of Wyoming would have the exclusive right to contract with the Bureau of Reclamation for the use of the remaining 20,000 acre-feet of the recovered space. This space would be referred to as the "Wyoming Account" and would yield 9,600 acre feet of water per year to serve the following purposes, in order to priority:

> (1) A supplemental water supply for Wyoming's municipalities during times of water rights regulation;
>
> (2) To serve as replacement water to satisfy any obligations under the Final Settlement Stipulation and Modified North Platte Decree in *Nebraska v. Wyoming*, No. 108 Orig., 534 U.S. 40 (2001); and
>
> (3) In the event the Wyoming Account is not used as described in (1.) or (2.) above, the storage water may be used to assure compliance with the terms of the PRRIP or as an additional supply to the PRRIP through temporary annual lease agreements.

In essence, the Wyoming account replaces the Deer Creek Project, which was proposed in the 1980's to provide supplemental water to Casper and surrounding communities. However, the Pathfinder Modification Project's Wyoming account provides the state more utility (as it can serve more municipalities) at far less cost than the Deer Creek Project. Construction costs for the Pathfinder Modification Project are estimated to be $8.5 million, while the costs of the Deer Creek Project would be in excess of $100 million in 2006 dollars.

The North Platte drainage is a fully appropriated basin; thus new water development with a current-day water right cannot provide the 34,600 acre-foot average yield of the Pathfinder Modification Project. The adverse impacts associated with the Pathfinder Modification Project will be borne primarily by irrigation districts that have federal contracts for storage water from the Kendrick Project (Seminoe Reservoir) and the North Platte Project (Pathfinder, Guernsey, and Inland Lakes Reservoirs). The impacts associated with the Pathfinder Modification Project and the PRRIP are acceptable to these irrigation districts. Studies completed in cooperation with the Bureau of Reclamation indicate that the Pathfinder Modification Project is the best and least damaging alternative to provide Wyoming's contribution to the Platte River Recovery Implementation Program; develop a much needed water supply for North Platte communities; and serve as a intermediate term water supply to meet Wyoming's water supply obligations under the North Platte Decree.

The following special conditions were placed on the project appropriation by the 2006 Legislature:

1. The WWDO was authorized to contract with the Bureau of Reclamation (Reclamation) for the construction, operation and maintenance of the Project under the condition that the contract will require Reclamation to obtain a partial change of use of its water rights for the Pathfinder Reservoir for the 53,493 acre feet of space allocated to the Project. The contract must also include the requirement that legislative authority be obtained to deliver water to the Wyoming/Nebraska state line for the purpose of enhancing the regulatory certainty under the Endangered Species Act for Wyoming's water use in the Platte River basin. The Governor must approve the contract.

2. The appropriated funds cannot be expended until all proceedings relating to the change of use, including any judicial review, have been exhausted. The exhaustion of the judicial review is not deemed to have occurred until the time has expired when any appeal may be taken from the applicable administrative action or until any appeal has been exhausted and concluded.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

128. 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 I	10	1994	I	$75,000	1996
Level II	8	1995	I	$150,000	1996
Level III	96	2000	I	$1,245,000 *	2004
Level II	34	2004	II	$475,000	2006
Level III	105	2006	I	$325,000 **	2010

* 60 % grant, 40 % loan (7.25 %, 20 years)
** 67 % grant, 33 % loan (4 %, 30 years)

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. Underlying the White River Formation in southeastern Wyoming is the Upper Cretaceous-Age Lance Formation and Fox Hills Sandstone that have been developed elsewhere in Wyoming and the Denver Basin (Lance Formation equivalents in Colorado are Arapahoe and Laramie Formations) for drinking water supplies. 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 first zone was 700 feet deep and the second zone was 1700 feet deep. The deeper 1700 foot zone was limited in

flow volume and the quality was marginal. The upper 700 foot zone produced approximately 200 gallons per minute of good quality water. The cost benefit ratio for the lower zone water was not acceptable and the lower zone of the well was sealed off. The Town has requested a Level III project to purchase and complete the well and place it into the Town's water system.

In 2006, a Level III New Development project, named Pine Bluffs Lance, Fox Hills Well, was approved. A $217,750 (67 %) grant and a $107,250 (33 %) loan were appropriated for the design, permit procurement, project land procurement, construction engineering, and construction of the project.

In 2007, the design for this project was completed. Currently, the project is under construction and is expected to be completed in 2008.
During this process, the Town of Pine Bluffs has had two water wells lose production. They would like to add Well #8 to their municipal water system. This well is currently permitted to be used for miscellaneous water.

The Town of Pine Bluffs would like to amend this project to include the costs necessary to upgrade this well and add this well to their municipal water system. The Town of Pine Bluffs is requesting a grant of $144,050. They plan to fund the Well #8 upgrade by using the new WWDC Grant of $144,050 and will use SLIB funding for their match. This will bring the estimated costs of this project to a total amount of $540,000.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends an additional Level III appropriation of $110,240 for the design and construction of the Well #8 upgrade.

129. PROJECT: Pine Bluffs Master Plan

LEVEL: New Application
SPONSOR: Town of Pine Bluffs, Incorporated Municipality
LOCATION: Laramie County
PROGRAM: New Development

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. The Town is currently in the process of hooking up this newest Fox Hills well to their system. (See Pine Bluffs Lance, Fox Hills Well)

Due to this continuing static water level decline in the Town's wells, the Town has 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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends a Master Plan Project be incorporated into the New Development Program at Level I with an appropriation of $80,000.

130. 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:
In 1995, the Town of Pinedale Water Supply Master Plan was completed. Since then, the Town has experienced significant growth and impacts due to the natural gas industry and second-home owners moving to the area. Much of this growth is outside the corporate limits of the Town. According to the Sublette County Socioeconomic Analysis Advisory Committee's website, the population of Pinedale has grown 25% since 1995 and the rural area around Pinedale has experienced a growth of 32%. The County Commissioners, in a letter of support for this project, stated that they are working with the Town to "encourage higher density development within a one mile radius of Pinedale's corporate limits, with the goal of having those higher density developments be annexed and become part of Pinedale." Both the Town and County are concerned with the possible impacts of developing water wells in and around the Town and are making an attempt to be as proactive as the rapid growth allows them.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

131. PROJECT: Pine Haven Master Plan

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

PROJECT INFORMATION:
The Town of Pine Haven requests a Level I Master Plan to include system modeling and an evaluation of their current water system including expanded service areas, water supply source, water storage, population projections, water rate analysis, leak detection and cost estimates. Planning is necessitated by growth due to regional energy development. Population growth has taxed their water infrastructure.

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

132. 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 2008.

The proposed project will provide system redundancy, increase fire flows, and stabilize pressures.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

133. 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 Nebraska, Wyoming 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." Since that time, a Governance Committee, with representatives from the three states, federal government, environmental organizations, and water users developed the **Platte River Recovery Implementation Program** (Program). The Program began on January 1, 2007. The Governance Committee will manage 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 will provide 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 will serve 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 evaluate the management actions and species habitat needs.

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 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 whereby he U.S. Fish and Wildlife Service 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 estimated at $187.14 Million. In addition to monetary contributions, the states must contribute water and land to the Program. The total burden of the Program in terms of monetary, water and land contributions are estimated to be $314.33 Million and will be shared equally by 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 value of this contribution was used in the calculations to derive Wyoming's "fair" monetary share.

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".

It is clear that without the Program, potentially burdensome individual consultations under the ESA would be required on past and future federal actions. The following list includes projects that would require individual consultations without 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 the Program; the USFWS will be required by the ESA to use the individual consultations with water users requiring federal approvals in Wyoming, Colorado, and Nebraska. Under individual consultations, the FWS will be requiring 417,000 acre feet of water and 29,000 acres of habitat rather than the 130,000-150,000 acre feet of water and 10,000 acres of habitat to be provided under the Program. The water and land requirements are reduced under the Program in recognition of the value of the cooperation with the states. The results of the individual consultations on the federal reservoirs and other federal actions in Wyoming could greatly impact our historic use of water.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

134. PROJECT: Powell Transmission Pipeline Project

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 in Road 8, 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.

135. PROJECT: Pursel Acres Water Project

LEVEL: III
SPONSOR: Pursel Lands Improvement & Service District
LOCATION: Natrona County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	7	2002	I	$100,000	2004
Level III	69	2003	I	$341,000	2008

PROJECT INFORMATION:
The South Garden Creek Level I Study looked at the potential of adding the area south of Casper (and alongside Casper Mountain) to the City of Casper's public water supply system. Five unique service areas were identified in the Level I Study, including: Squaw Creek/Wolf Creek, South Garden Creek, Elkhorn Valley, Coates Road and Pursel Lands.

The preferred water supply source for the Pursel Lands service area was identified as the City of Casper water system as an outside City retail water customer. The main City supply will be provided from a 12-inch transmission pipeline constructed under the highway from the Skyline Ranches area. Two other connections will be made to 6-inch and 8-inch water lines in Red Butte

Village. The 2003 legislature appropriated $341,000 or 50% of the eligible cost for this project. The district has been unsuccessful in its attempts obtain funding for the remaining 50% of the project.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required. The sponsor has not actively pursued the Level III project and the funding associated with this project will revert back to water development account I on July 1, 2008.

136. 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

*50% grant ** 67% grant *** 67% grant/33% loan

PROJECT INFORMATION:
The Rafter J Improvement and Service District has a population of approximately 2,500 people. The community has a water supply system supplied by two wells and a 200,000 gallon storage tank. The system serves 500 homes and 25 commercial taps. The system was originally designed to include three wells and an additional tank. The existing system is inadequate and cannot meet demands during the summer. The district 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 district has contracted with an engineering firm and design of the project has begun.
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 or placement of a packed media filter screen will be required. The project is scheduled to be completed by the end of 2008.

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

137. PROJECT: Ranchester Storage Tank

LEVEL: III
SPONSOR: Town of Ranchester, Incorporated Municipality
LOCATION: Sheridan
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	7	2002	II	$75,000	2004
Level II	125	2003	II	$80,000	2004
Level III	147	2005	II	$314,000	2009
Level III	105	2006	II	$140,000 *	2010

* Sponsor's Inflation Fund - Rehabilitation

PROJECT INFORMATION:

A Level I Master Plan was completed for Ranchester in November 2002. The Master Plan identified several points of concern and possible alternatives for remedying these issues. Ranchester then requested a feasibility and cost analysis of the recommendations outlined in the Level I study. These recommendations included the evaluation of a new infiltration gallery; in-depth evaluation of water treatment processes used for taste and odor control and disinfection; as well as storage and distribution needs.

The Level II study was completed in November 2004 and the greatest need identified in the study was for additional treated water storage. To meet this need, Ranchester would like to combine WWDC funds and capital facilities tax revenues to construct a 500,000 gallon storage tank.

Ranchester has an existing 500,000 gallon tank and this new tank would mirror the existing tank and double their capacity while allowing the existing tank to be rotated out of use during the winter for maintenance and repair.

Level III funding was appropriated by the 2005 legislature with a grant of $314,000. The town of Ranchester retained the services of Entech Engineering to complete the design and construction of the tank.

In summer of 2006, the project went to bid. However, the bids came in higher than expected. The tank cost for this project doubled in price as compared to the Engineer's Estimate. With this in mind, the Engineer looked at ways of reducing design costs and acquiring additional funding to cover the increases in material costs on this project. In an attempt to award this project to the low bidder, WWDC agreed to commit $140,000 from the Sponsor's Inflation Fund for rehabilitated projects if the Sponsor would commit the remaining $210,000 necessary to fund the total project budget. The Sponsor agreed to these conditions. An Amended Project Agreement was put together and latter approved by the WWDC. At this point, the project was ready to be awarded when the Sponsor changed their mind. The Sponsor indicated that they would have to take out a loan for $210,000 to cover their portion of the funding and they were not willing to go into debit at this time. Hence, the bid for the project was rejected.

The WWDC proceeded to see what the Sponsor's intentions were on this project. The Sponsor indicated that they were willing to continue with the project but wanted to acquire funding thru SLIB. In October 2006, SLIB approved a grant of $500,000 to assist in funding the Water Storage Tank. In addition, the Sponsor committed $186,000 of the capital facilities tax to this project.

In February 2007, the project went to bid. The bids for this project came in lower than expected. The tank cost for this project was less than the Engineer's Estimate. This was due in part to the time of the year the project was bid as well as the tank bid alternates. The contract was awarded. Currently, the project is near completion. It is anticipated that this project will be closed out in 2008.

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

138. PROJECT: Rawlins Master Plan

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

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 is seeking 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.

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

139. PROJECT: Rawlins Raw Water Storage Project

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 is underway 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 from their various sources. 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 when it is available.

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 is currently underway and on schedule.

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

140. 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 had three of their four treated water storage tanks inspected and cleaned in May of 2006. The inspection revealed that all three of the water tanks had severe coating deterioration, varying amounts of corrosion as well as some structural damage from ice movement within the tanks.

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 delamination.

An 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 is complete and bidding will occur in early 2008. Construction should be completed by mid 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

141. PROJECT: Riverton/Mountain View Acres Water Supply

LEVEL: II
SPONSOR: City of Riverton, Incorporated Municipality
LOCATION: Fremont County
PROGRAM: Rehabilitation

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 and the Mountain View Acres subdivision have come together to jointly apply for a study that would benefit both entities. The Mountain View Acres subdivision is currently being served by their own well, however, that well was drilled over 25 years ago and its continued long term use is in doubt. Riverton has determined a need for an additional well to serve the west side of the City, along with supply redundancy and increased pressures. During the study, WWDC will evaluate the Mountain View Acres well for its long term use and its potential for increased productivity. If the Mountain View well is determined not suitable for increased use, then a test well will be drilled for Riverton which would be capable of providing water to Mountain View Acres as well as meeting the needs of Riverton residents in the western portion of the city.

With the rapidly elevating drilling prices coupled with the economic effects of the hurricanes in the gulf coast region, the Consultant has recalculated the estimated drilling costs for the proposed test well for Riverton and has determined a need for an increased well drilling budget. This project is continuing. The new well for Riverton was drilled in November 2007 and development and pump testing of the well has begun.

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

142. PROJECT: Riverton Raw Water Supply Rehabilitation Project

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 has retained an engineering firm to design this project.

Due to limited WWDC funds the project received $85,000 in 2001 for design services only. The sponsor is now intending to proceed with construction. The additional grant funds of $1,001,500 appropriated in 2004 will be used to pay 50% of project eligible costs with the remaining funds from other sources. The project will be constructed in phases.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

143. 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

*67% Grant Only

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 now the sponsor is ready for the second phase including well field build-out and construction of transmission lines.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be continued in the New Development Program at Level III, Phase II with an increase to the existing appropriation of $4,363,375. The funding will be for a 67% grant.

144. 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	2008

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.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

145. 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.

The sponsor would like an inventory and description of the watershed to include basic hydrology and stream geomorphology. The sponsor would also like to seek out 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 are needed to create a rehabilitation plan which would allow for a systematic approach to replacing the many aging structures on the ditches and laterals.

This project is proceeding. The inventory and mapping will continue through 2007. Completion is expected in early 2008.

RECOMMENDED LEGISLATIVE ACTION:
No further legislative action is required.

146. PROJECT: Sheridan/Big Goose Slip Lining

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

EXISTING LEGISLATION:

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

* 33 % grant

PROJECT INFORMATION:

In October 2002, 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 was approved. A $427,020 (33 %) grant was appropriated 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 is securing the services of an engineer and will begin design in 2008.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action is required.

147. 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 1 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.

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.

A $5,260,840 (67 %) grant was appropriated for the design, permit procurement, project land procurement, construction engineering, and construction of the project. The estimated total project budget for this project is $7,852,000. Currently, the sponsor is securing the services of an engineer and will begin design in 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

148. PROJECT: Sheridan Pipeline Rehabilitation

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	7	2002	I	$ 50,000	2004
Level III	69	2003	II	$5,184,000	2008
Level III	147	2005	II	$ 500,000	2008
Level III	105	2006	II	$ 360,000 *	2010

* Sponsor's Inflation Fund - Rehabilitation

The Sheridan Pipeline Rehabilitation Level II project (previously referred to at the Sheridan Hydro Project) identified some corrosion problems in the 16" transmission line. Funding was requested to replace this 16" line with a new 20" line. Additionally the city of Sheridan requested funding for two shorter transmission lines in the South Hills area. The need for the smaller transmission lines in the South Hills area was urgent enough that the City of Sheridan requested that they be split out of the larger project and constructed as soon as possible. Their request was granted and the construction of this portion of the project has been completed.

In the mean time the design of the larger 20" line is also underway and progressing at a steady pace. Because the costs of pipe materials and easements has escalated so dramatically recently in 2005 the City of Sheridan requested an additional appropriation of $500,000 to meet the increasing project costs.

In March 2006, all the easements for this project were obtained and the project went to bid. However, the bids came in higher than expected. In order to award this project to the low bidder, WWDC agreed to commit $360,000 from the Sponsor's Inflation Fund for rehabilitated projects. The project was awarded to the low bidder in May 2006.

Currently, this project is near completion. It is anticipated this project will be competed in 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action required.

149. 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 and will have laterals 4C, 2W, and possibly 24F complete prior to the 2008 irrigation season. Construction of the remaining laterals will follow 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.

150. 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. The District would like to have their system mapped digitally to create a fully integrated GIS that would assist in the long term planning and management of the conveyance system and control structures. This would involve mapping the main canals and laterals and each structure along with condition estimates which would be 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 proceeding as expected. The inventory and mapping is complete. The GIS is near completion and the final report is expected in early 2008.

RECOMMENDED LEGISLATIVE ACTION:
No further legislative action is required.

151. PROJECT: Shoshone Well & 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 is expected to start in late 2007 with construction to begin in 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

152. PROJECT: Sidon Rehabilitation

LEVEL: New Application
SPONSOR: Sidon Irrigation District
LOCATION: Big Horn County
PROGRAM: Rehabilitation

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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends this project be incorporated into the Rehabilitation Program at Level III status with an appropriation of $405,000. The financing plan includes a 67% grant of 271,350 and a 33% loan of $133,650 at 4% interest for an 8 year term.

153. 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:
Small water program projects must provide multiple benefits for a total estimated cost of less than $100,000 per project. Projects may include new development or rehabilitation of small reservoirs, pipelines, wells, windmills, springs, wetland developments, solar platforms, and irrigation conveyance facilities. Projects must provide a public benefit through mitigation of water quality impairments, enhancement of Threatened or Endangered species habitat, the development or enhancement of habitat and water for fish and wildlife, increased recreational opportunities, provide water for maintenance of the integrity and vitality of plant and animal communities, serve as instruments to improve rangeland condition, or make beneficial use of water, and have supportive documentation in a watershed plan, environmental evaluation or equivalent planning documentation.

The 2007 Legislature placed a hold on authorization of any new small water projects on or after April 1, 2010.

Following is a listing of projects approved in 2003:

Account I – New Development	Account II - Rehabilitation
Diamond S Ranch Pipeline*	Russell Ranch Pipeline*
Central Well*	Diamond S Ranch Well*
Big Bend Pasture Well*	Big Sandy Pipeline*
Emigrant/Four Mile Pits*	Coyote Reservoirs*
Perino Pipeline*	Cabin Creek Water Development*

Gooseberry Creek Ranch Well*
Big Horn River Ranch Pipeline*
East Dry Creek #1 Well*
Crowfoot Ranch Well*
Jensen Wash Well*
Migration Well*
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*
TY Ranch Pipeline*
Old Steve Adams Duck Pond*
Poison Buttes/Cottonwood Ponds*
Jones Water Project*
Dixon Summer Project*
Croonberg Water Development*

Following is a listing of projects approved in 2004:

Account I – New Development	Account II – Rehabilitation
Antelope Hills Water Well*	Henthorne Pipeline*
Range Unit 40 Young Bench Well*	Hay Creek Project*
Aaron Carollow Livestock*	South Coffee Project*
Antone Swanda Well & Pipeline*	RangeUnit40CrowheartButtePipeline*
Gordon Pries Irrigation Pipeline/Pond*	Range Unit 38 Water Rocks Pipeline*
Cherokee Allotment Ground Water*	Double Tanks Pipeline*
Chant Water Well #1*	Blakely Big Draw*
Springfield Ranch-Laramie Plains*	Jones Bros. 2-B & #8 Reservoirs*
Butte Water Development*	Morrisey Pipeline Rehabilitation*
PH Livestock Fillmore Pasture*	Big Poddy Creek Pipeline*
Black Thunder Watershed Project*	MishurdaMtn.Ranch,Phase2 Pipeline*
Basin Allotment Project*	Struempf Ponds*
Dobie Ridge Project*	Lodgepole Water Project*
Muddy Creek Ox Bow Restoration*	Red Butte Water Project*
Chant Stock Ponds #7 & #8*	Muley Meadows Pipeline*
Bridger Pass #5 Stock Pond*	Little Jack Res., South Flat Top*
Coal Gulch Grade Control/Diversion*	Irvine Ranch Small Water Project*
Vineyard Ranch Small Water Project*	

Following is a listing of projects approved in 2005:

Account I – New Development	Account II – Rehabilitation
Upper Nowater Stock Well & Storage*	Six Mile Spring Development
Hall Butte Reservoir Project*	Canyon Springs Prairie Pipeline*
West Keester Project	Upper Beaver Creek Pipeline*
	Neiber Pipeline Project*
	Sun Land & Cattle Co. Project*
	Pole Mountain Water Development*

Following is a listing of projects approved in 2006:

Account I – New Development	Account II – Rehabilitation
Bunch-Wetland Restoration	Baird-Sand Draw Pipeline*
Hall Butte Range Water Development	Hall Butte Stock Pond Rehab
Jones Pond #1 Red Hole & Offsite Water	Henthorne Stock Ponds Rehab

Jones Pond #2 Red Hole
Jones Pond #3 Red Hole
Reed Pipeline
Russell Ranch Wetland Restoration
Hibbard Stock Rest Water Development
Kaycee Stock Rest Water Development
Casey Jones Well
Dull Center Well
East Woody & NW Ireton Wells
Frog Creek Well
Gordon Well
Hardesty Well
Hills Well
Iberlin Bobcat Well
Iberlin Solar Well
Lower Horse Section 35 Well
M Creek Section 26 Well
Neumiller Section 15 Well
Neumiller Upper Meadow Portable Solar
North M Creek
Rock Well
South M Creek
Riehle Well
Rochelle Hills Spring Development
Rothleutner Solar Well
West Railroad Well
Jones Pipeline & Storage Tank
Reed Reservoir
Russell Ranch Stock Pond Rehab
V-Ventures Boxcars Rehab
V-Ventures West Kirby Pond Rehab
V-Ventures Below Frost Pipeline
V-Ventures-Wetland Rehab
Whitt-Homestead Pipeline
Government Reservoir Water Devel
JJ Springs Water Development
Mud Springs/Arch Cr Water Devel
Downs Solar Pipeline
East Pasture-South Pipeline
Lona Solar
Tracy Solar Systems
2Coyote-East Pipeline
2 Coyote Pipeline
2 Coyote Storage
West Horse Underground Pipeline
Tracy Wells
Rothleutner Stock Tanks
Upper Antelope-Coal Bank Pipeline

*Projects completed or expired as of 12/31/07

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

154. PROJECT: South Circle Master Plan

LEVEL: New Application
SPONSOR: South Circle Estates Improvement and Service District
LOCATION: Washakie County
PROGRAM: New Development

PROJECT INFORMATION

The South Circle Estates is a subdivision just outside of Tensleep. 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 PIP 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 ensure they are eligible for WWDC funding. 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
The WWDC recommends the project be incorporated into the New Development Program at Level I with and appropriation of $50,000.

155. PROJECT: South Thermopolis Water Supply

LEVEL: I
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

A Level I study was completed in August 2007 for the District. In the Level I, 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 study will provide detailed cost estimates, and develop conceptual designs for the recommended improvements. The level II will also include an economic analysis to determine a water rate structure to finance construction costs.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced in the New Development Program to Level II status with an appropriation of $75,000.

156. PROJECT: Sponsor's Inflation Fund's

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

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 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 and increased inflation costs. Use of funds in this account must be approved by the WWDC.

During the 2006 Legislative Session, inflation funds were appropriated for New Development Projects ($2,000,000) and Rehabilitation Projects ($500,000). There has been very little demand on the New Development Inflation Fund, while the Rehabilitation Inflation Fund has been exhausted. The purpose of this recommendation is to replenish the inflation fund for the Rehabilitation Program with $500,000.

RECOMMENDED LEGISLATIVE ACTION
The WWDC is seeking a $500,000 appropriation from water development account II to re-establish the Sponsor's Inflation Fund for the Rehabilitation Program.

157. 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 work cannot 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 being considered during the 2007 construction season. In early 2008 all parties will be presented with all available alternatives and a decision on a course of action will be determined.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

158. 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, the sponsor wishes to continue with a Level II study primarily for groundwater exploration. This study would conduct 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 Town and the Homeowner's Association completed the transfer of ownership of the culinary portion of the water supply system to the Town, while the golf course irrigation system will likely remain with the Association.

This project is proceeding as expected. The test well siting has begun.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

159. 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 future planning of new development.

This project began in July 2007 and is progressing as expected.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

160. PROJECT: State Stream Gage System

LEVEL: II
SPONSOR: State Engineer's Office
LOCATION: Statewide
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level II	59	1996	I	$200,000	None
Level II	82	1998	I	$200,000	2000
Level II	36	2000	I	$200,000	2002

PROJECT INFORMATION:
In 1996, $200,000 was appropriated from Water Development Account II for stream gage rehabilitation and construction. The Bureau of Reclamation and the USGS also appropriated monies for work on these stream gages. On June 30, 2007, the unspent balance of $1,738.90 reverted back to the Water Development Account.

In 1998, a second $200,000 was appropriated for stream gage rehabilitation. However, the SEO did not undertake any stream gage rehabilitation measures during FY 98-99 and the $200,000 reverted back to the Water Development Account.

In 2000, a third $200,000 was appropriated from Water Development Account II for Wyoming stream gage rehabilitation and construction for FY 00-01. On June 30, 2006 the unspent balance of $1,390 reverted back to the Water Development Account.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

161. 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

*Contained in Agency Budget

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, etc. 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 Water Development Commission 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 November 2000, 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. The Framework Water Plan was initiated in June 2006, and will include a summary of the seven river basin plans and a projection of future demands. Funding for preparation of the Framework Water Plan was approved by the 2005 Legislature.

Upon completion of the Framework Plan the process of updating the seven basin plans will be initiated, with updates performed on approximately five-year intervals, as was defined with the initiation of the River Basin Planning Program in 1999. Due to the development occurring in the Green River Basin and because of down stream pressure on the Colorado River, the Green River Basin Plan update was initiated in 2007. This began the next round of plan updates, and included an update of surface water data and initiated a groundwater analysis component.

The recent drought has resulted in increased development of the groundwater resources in the Wind/Bighorn Basin. Additional analysis of the basin's groundwater supplies is important for the responsible management of this resource. As with many locations across the state, the drought has also placed increased pressure on available surface water supplies. The proposed WB basin plan update will also include funding to develop a surface water simulation model for the basin. This model will improve on the spreadsheet model that was developed by the first basin plan and include the most recent drought years.

RECOMMENDED LEGISLATIVE ACTION:
The WWDO is requesting funding of $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.

162. 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

PROJECT INFORMATION:
The University of Wyoming's Office of Water Programs annually asks water users and state and federal agencies to identify areas of needed water research that might be conducted by the University. Interested parties present the Selection Committee, formed from several state and federal governmental agencies, with water resource topics that need additional research and data acquisition. From these requests, the program's funds are distributed to selected research programs on an annual basis. Funding is being provided by the Wyoming Water Development Commission and the United States Geological Survey with the University of Wyoming providing in-kind services. The United States Geological Survey's annual appropriation is approximately $100,000 and the WWDC leverages this amount with a 2 to 1 match. Due to the uncertainty of the USGS appropriation each year, the WWDC contributes $300,000 to this program annually.

RECOMMENDED LEGISLATIVE ACTION:
The Commission recommends that the project be incorporated in the New Development Program at Level I with an appropriation of $300,000. The WWDC anticipates yearly appropriations for the upcoming years for continuation of these research projects.

163. PROJECT: Stonegate Water Supply Project

LEVEL: III
SPONSOR: Stonegate Improvement & Service District
LOCATION: Campbell County
PROGRAM: Rehabilitation

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	147	2005	II	$ 130,000	2009

PROJECT INFORMATION:

The Stone Gate Improvement & Service District is located in Campbell County approximately 5 miles southwest of Gillette. In the application submitted to WWDC, the District proposed to construct a water supply well to replace the Stone Gate No. 1 Well drilled in 1992 for the first filing of the Stone Gate Subdivision. The engineer's cost estimate for this well was $459,351. The District also operates the Stone Gate No. 2 Well, which has proven to be a dependable supply. According to the application, the No. 1 well was poorly designed and constructed, and produces sand to the extent that "numerous" pumps have been replaced. The application indicates: "Well No. 1 should be replaced with a properly designed and constructed supply well to meet the current and future demands of the District in accordance with Wyoming Department of Environmental Quality requirements. Such a new well would decrease the hours per day each well is operated and would increase the time between pump replacement. When a well is out of service for needed repairs, the District would still have the necessary water supply with this additional well."

In 1993, the City of Gillette began adoption of a water service policy consistent with the Gillette Water Master Plan funded by WWDC. The City and Campbell County passed mutual resolutions creating a regional Planning District Boundary (PDB), within which the City would become the purveyor of water supplies to existing and future customers. For the WWDC, this arrangement eliminated the funding of duplicative infrastructure (wells, transmission, storage) within the PDB.

The City of Gillette water service infrastructure has not expanded to accommodate additional users outside the PDB. Presently there are plans for the City and County to agree to an expansion of the PDB that would include the larger existing developments (Sleepy Hollow, Antelope Valley, Highway 59 south to the Gap, 4-J SW Corridor, Stone Gate, Means WSD, etc.) and future growth areas.

The city completed a source water supply study that evaluated supplying water to meet the long-term water demands of the city. The development of any source water supply is planned to provide for the PDB's future demands and provide an increased measure of redundancy with respect to the Madison Aquifer supply.

The City of Gillette has a 12" water main built along Force Road to the east boundary of Stone Gate. Two years ago, WWDC and the City finished construction of a 3 MG storage tank two miles east of Stonegate, which was the terminus for a major storage/transmission addition to the City's system along Southern Drive between US HWY 59 (Douglas Highway) and US HWY 50 (4-J Road). Connecting to City water would require a pre-annexation agreement and significant upgrades/replacements to Stone Gate's existing delivery system which are estimated at $2Million.

Although Stone Gate was not within the 1993 PDB boundary, present City of Gillette regional water system infrastructure places Stone Gate in a position to reasonably tie into the existing city main. The City of Gillette agreed to provide water service to the Stonegate Improvement and Service District during the December 16, 2005 Select Water Committee meeting.

In 2005 and 2007, the district and the city attempted to negotiate an agreement by which the Gillette would provide water service to Stone Gate. In the draft agreement, the City of Gillette stipulated that water meters would be required on all of the District's service connections.

Subsequent to the agreement negotiations, the District has installed water meters and seen a sharp decline in water use. The reduction in water use, failed negotiations with the City of Gillette, and the inability to secure matching funds, resulted in WWDC requesting that the District revert $130,000 back to the Account II. The District has agreed to revert the project appropriation back to the State.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC is recommending that the reversion date for the funds be accelerated from 2009 to 2008 to allow for the reversion of the appropriation to water development account II on July 1, 2008.

164. 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.

165. 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.

The project is in the final design phase and the construction phase is anticipated to be completed by summer 2008.

RECOMMENDED LEGISLATIVE ACTION:

No legislative action required.

166. 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 $344,112 (67 %) grant was approved. In addition, the Sunset Ranch Water District requested and was latter approved for additional funding from RUS and SLIB. A new estimated total project cost for this project is $1,587,000. The total eligible project costs for this project is $938,600.

In 2007, the design of the project was stopped until funding was in place. Currently, the design plans are near completion and will be submitted to the DEQ for review. It is anticipated that this project will begin construction in 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

167. PROJECT: Sweetwater River Watershed Study

LEVEL: I
SPONSOR: Popo Agie Conservation District
LOCATION: Fremont County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	123	2005	I	300,000	2008

PROJECT DESCRIPTION:
The Sweetwater River watershed is approximately 1.8 million acres with land ownership divided among federal (79%), private (13%), and state (8%). The watershed includes one primary river system, the main stem of the Sweetwater River, and its tributaries including Gold Creek, Willow Creek, Rock Creek, Granite Creek, Alkali Creek, Long Creek, Cottonwood Creek and Crooks Creek.

The Conservation District sponsor, in cooperation with other Conservation Districts within the watershed, would like to look at surface and ground water availability within the watershed. Of primary interest to the districts is the lack of developed upland livestock and wildlife water within the drainage. Surface and groundwater availability information would provide baseline information from which the District can coordinate and facilitate implementation of management practices that address the water distribution issues within the Sweetwater drainage. 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. The Level I report is anticipated to be completed in 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

168. PROJECT: Taylor Ditch Siphon

LEVEL: New Application
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.

Because of extended delays due to easement issues and inflation, this appropriation was returned to WWDC in the fall of 2006. The current total cost estimate for the project is $667,000.00 and the district is again requesting construction funds.

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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the Rehabilitation Program at Level III with an appropriation of $496,915 (67% grant and 7.5% loan with an interest rate of 4% and a term of 15 years). The sponsor is responsible for funding the remaining 25.5% of the project budget.

169. 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

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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends an additional Level III appropriation of $1,804,910 be approved for completion of this project.

170. PROJECT: Thunder Basin Watershed

LEVEL: New Application
SPONSOR: Thunder Basin Grazing Association
LOCATION: Campbell, Converse, Niobrara and Weston County
PROGRAM: Dam and Reservoir

PROJECT INFORMATION:
The Upper Cheyenne, Antelope Creek and Dry Fork drainages and their tributaries are comprised of approximately 1.9 million acres with land ownership divided among private (63%), federal (30%), and state (7%). These drainages are primary tributaries to the Cheyenne River system.

The Thunder Basin Grazing Association (sponsor), on behalf of the landowner community within the watershed and in cooperation with local Conservation Districts and the Thunder Basin Grasslands Prairie Ecosystem Association, would like to look at surface and ground water availability. Of primary interest is the lack of developed upland livestock and wildlife water within the drainage and the potential to develop and enhance additional irrigation water storage. Surface and groundwater availability would provide baseline information from which the sponsor can coordinate and facilitate implementation of management practices that address water distribution and recreational/environmental issues and opportunities.

The sponsor wishes to 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.

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

171. PROJECT: Torrington Water Supply

LEVEL: III
SPONSOR: City of Torrington
LOCATION: Goshen County
PROGRAM: New Development

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level I	8	1995	I	$100,000	1996
Level I	15	1996	I	$150,000	1998
Level III	38	1998	I	$4,500,000*	2002**
Level III	88	2002	I		2007

*60% grant, 40% loan (7.25%, 30 years)
**This reversion date was extended to 2007.

PROJECT INFORMATION:
The City of Torrington received financing from the 1998 legislature to complete a new municipal well field and bring the water into the town's distribution system. The purpose of the project is to replace older high nitrate wells with new wells located closer to the North Platte River, which are lower in nitrates. Project components include wells, pumps, electrical service, control and disinfection facilities, telemetry, booster pumps, pipe, and appurtenances.

The sponsor explored groundwater at two locations. The first site had insufficient aquifer thickness and the second site had uranium concentrations in excess of drinking water standards. Independent of WWDC funding, the city installed reverse osmosis treatment units on four wells in the city. This action was necessary to comply with an EPA administrative order. Ownership of treatment units coupled with the inability to find groundwater that meets all drinking water standards resulted in a shift in the project to seek relatively good quality water closer to the city in an effort to reduce pipeline and related capital costs and operationally to reduce but not eliminate treatment. The four reverse osmosis units have been moved to a new central treatment facility in conjunction with this new supply project. The water treatment related activities were financed with SLIB and SRF funding.

Three new wells drilled near the municipal golf course are being used in conjunction with the existing Well #15 as the water supply. Construction is essentially complete, thus completing the project and providing the sponsor with a safe water supply, minimally treated at a central location.

Much of the WWDC eligible project components were financed with 60% WWDC grant and 40% SRF loan. A portion of the 40% loan was provided from WWDC. Because of difficulties in locating a water source and subsequent inflationary costs due to delays, the project cost has exceeded the amount originally contemplated. This has resulted in the WWDC grant share being less than 60%, and the total loan share being more than 40%. Therefore the sponsor requests that the 60% grant share be restored by converting a portion of the WWDC loan to grant. The remaining portion of the WWDC loan will be de-appropriated.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends that the original Level III appropriation of $4,500,000, consisting of $2,700,000 grant for 60% of project expenses and $1,800,000 loan for 40% of project expenses, be changed to a total of $3,392,783. The grant portion of the appropriation shall be $3,063,000 for 60% of eligible expenses and the loan portion of the appropriation for 6.46% of eligible expenses shall be $329,783 at 7.25% interest for a 30-year term. The sponsor is responsible for financing the balance of 33.54% of eligible expenses, plus any expense deemed not eligible for WWDC financing, from other sources. The date for unspent funds to revert to the Water Development Account is recommended to be July 1, 2008. With the change in the amount appropriated, there will be a reversion of $1,107,217 to the water development account.

172. 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

**The Turnerville 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 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 has formed a water district and is anxious to utilize WWDC funding to rehabilitate and repair the existing system. The project which the District is implementing will renovate the Willow Canyon spring and install four miles of six and eight inch piping. In addition, the District will construct 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 existing funding inadequate. The district received supplemental WWDC funding in 2006 and design was completed. Construction began in August 2007 and will be completed in early Spring 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

173. 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 commenced hydrologic analysis and site investigations to determine the most viable storage locations. The scope of services also includes 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 will be conducted to determine the benefits to the state and the project sponsor, as well as the sponsor's ability to pay. This study is utilizing the work that has already been completed within the Green River Basin, and will not duplicate any efforts.

RECOMMENDED LEGISLATIVE ACTION:

No legislative is action required.

174. PROJECT: Upton No. 6 Well Evaluation

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, however 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 Upton 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 is anticipated to be delivered by mid-2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative is action required.

175. 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 will analyze impacts and benefits that occur as a result of constructing large rural, regional water systems. The study will be conducted in one or two counties that are willing to participate. Issues that may be 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. As the project develops, issues may be added or dropped to best meet the counties' needs and to provide an unbiased evaluation of the impacts and benefits. This study is underway.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

176. 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	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	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 Scottish Power 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 currently finishing analysis of the land near Viva Naughton to determine if it is suitable for wetlands mitigation. Their contract also includes updating conceptual designs and cost estimates, as well as optional tasks for wetland and reservoir surveys if deemed pertinent to a preferred alternative.

Local sponsors have expressed interest in proceeding forward with permitting of the most desirable reservoir alternatives.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

177. PROJECT: Wamsutter Ground Water

LEVEL: New Application
SPONSOR: Town of Wamsutter
LOCATION: Sweetwater County
PROGRAM: New Development

PROJECT INFORMATION:
The Town of Wamsutter is located in the Great Divide Basin in extreme NE Sweetwater County on Interstate Highway 80. Recent resurgence of oil & gas development activities in the area has created an increase in population of the Town and attendant water demands. Currently the Town has a project (WWDC grant funded) 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 (Wamsutter No. 5, S.C. No. U.W 118, drilled in 1902; and the Wamsutter No. 6, S.C. No. U.W. 119, drilled in 1912) that served the town. The 1997 WWDC Level II Study indicated that the Well NO. 8 and an additional well should be constructed to eliminate dependency on the existing old wells. At this time, considering the present impact growth, an additional well of similar capacity of Well No. 8 would not meet system demands for peak-day usage.

The Town is requesting a Level II study to include an evaluation of system demands, an exploration drilling program, and a feasibility study to determine system upgrades to eliminate future dependency on the former supply system.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be incorporated into the New Development Program at Level II with an appropriation of $800,000.

178. 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 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

179. 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

*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.

Since the time of the original funding application, additional concerns have come to light. They are:

- 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. This change necessitates changes in the project design, thus increasing the costs; and,

- As a result 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.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the Level III appropriation be increased $2,716,180 for completion of this project. The funds will serve as a 67% grant. The remaining 33% of the project budget will be provided by the sponsor.

180. PROJECT: Washakie Rural Water Supply Project

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.

Approximately 95% of the water system has been constructed and is now in service. The remainder of the project is under contract. The project should be completed by the middle of 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

181. 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. A permit for both aerial and ground-based seeding operations over this target area has been issued by the Wyoming State Engineer's Office. Seeding operations over all three target areas commence November 15th each year of the study and run through March 30th.

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 daily from Saratoga during the operational season. The Cheyenne turboprop airplane has been deployed with all the necessary seeding and cloud microphysics monitoring equipment and is based at the Rock Springs airport. Project meteorologists and field technicians are stationed at Saratoga and Rock Springs during the winter of 2007/08. 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 2008, 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.)

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

182. 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 has been 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, with the Draft Environmental Impact Statement document completed in December 2007 and slated for release January 2008. After a 45-day comment period, a final EIS document will be prepared and a Record of Decision issued by the US Bureau of Land Management.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

183. 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 well is capable of producing approximately 350 gallons per minute. Estimated costs to complete the well house, storage tank connection and well pump are $332,000. A 67% WWDC grant in the amount of $222,440 was approved by the 2007 Legislative Session. The Town of Wheatland will use local funds to provide the 33% match. Project completion is scheduled for Summer 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is needed.

184. 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 2008 irrigation season.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

185. 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

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.

Willwood Irrigation District recently experienced a mechanical failure of the last functional sluice gate on their diversion dam. While steps are being taken to repair the gate, the sponsor is requesting additional funds to accelerate the analysis of the silt removal behind the dam, and ultimately the dam rehabilitation. The sponsor feels that time is of the essence, and detailed cost estimates and a silt removal plan are necessary for a Level III application in 2008.

The Phase II of the Level II study will include dewatering a section of the river, removal of silt to access the dam face and soil testing of the silt for modeling operation of the sluice gates. The study will also provide: 1) Cost estimates for mechanical removal of a portion of the silt to access the 40' dam face on the upstream side; 2) Cost estimates for removing all silt and replacing the three sluice gates and the canal gate, and replacing the automation components; 3) Tests of the silt to use in modeling the river flow and sediment transport for best operating criteria of the three sluice gates; 4) Survey cross sections of the river upstream of the dam for use in modeling; and 5) Development of a model and performing simulations to provide WID with best operation of the sluice gates to prevent sediment from building up in the future.

RECOMMENDED LEGISLATIVE ACTION:
The WWDC recommends the project be advanced in the Rehabilitation Program to Level II, Phase II status with an increased appropriation of $150,000.

186. 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. During 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. This project is slated for completion August, 2009.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

187. 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 is on hold pending tribal approval of the project agreements by the Eastern Shoshone Business Council.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

188. 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 zones.

A consulting engineering firm has been retained to design this system.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

189. PROJECT: Wright Master Plan

LEVEL: New Application
SPONSOR: Wright Water and Sewer District
LOCATION: Campbell County
PROGRAM: New Development

PROJECT INFORMATION:
The Wright Water and Sewer District requests a Level I Master Plan to conduct system modeling and an evaluation of their current water system including expanded service areas, water supply source, water storage, population projections, water rate analysis, and cost estimates. Planning is necessitated by population growth due to regional energy development and the District has reached the extent of previous planning efforts.

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

190. PROJECT: Wright Well and Pipeline

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

EXISTING LEGISLATION:

Purpose	Chapter	Session	Account	Appropriation	Due Date
Level III	88	2002	I	$600,000	2007

PROJECT DESCRIPTION:
Because of the influx of people in the region due to energy production and construction of two new power plants, Wright Water and Sewer District anticipated water demand in excess of the capacity of the current system. A man camp is to be located in the district, which would house as many as 800 to 1,000 workers. The new well contemplated in this application will be necessary to meet the proposed increased water demand. This project includes completion of the well, pump, controls, well house, and a pipeline connecting the well to the distribution system.

Completion is anticipated for a Fort Union well with a large diameter cased section in the top 1200 feet of the well and a smaller diameter cased section in the lower 1500 feet. This project includes funding for the design and construction of 5,700 feet of transmission pipeline and appurtenances.

Construction of this project is under contract and should be completed in 2008.

RECOMMENDED LEGISLATIVE ACTION:
No legislative action is required.

Completed Level I and Level 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. Beulah Water Supply
04. Big Valley & Crossed Arrows Improvement District Water Supply
05. Black Willow Water Supply
06. Boulter Lake Outlet Works/Enlargement
07. Bridger Valley Water Supply
08. Canyon/Newcastle Area Water Supply
09. CBM Aquifer Storage and Retrieval
10. Cheyenne Hydro Power
11. Corner Mountain Test Well
12. Crook County Reservoirs and Water Management
13. Crow Creek Groundwater Recharge
14. Dubois Regional Water Supply
15. Eight Mile-High Plains Well
16. Encampment/Sierra Madre Water Supply
17. Frannie Well Rehabilitation
18. Goshen Re-regulating Reservoir
19. Granger Water Supply
20. Green River Groundwater Recharge and Alternate Storage
21. Greybull Raw Water
22. Greybull Wells Rehabilitation
23. Hawk Springs Water Supply
24. Heart Mountain ID Return Flow Study
25. Hoback Junction Rural Regional Master Plan
26. Hot Springs State Park, Big Springs Study
27. Hyattville Water Supply
28. Irrigation Hydro Power
29. Jons Drop Hydropower
30. Kaycee Well & Storage
31. Kennington Springs Level II Study
32. Kirby Area Water Supply Study
33. Kirby Creek Water Management Plan
34. LeClair/Riverton Valley Irrigation Storage
35. Lodgepole Creek ASR
36. Lovell ID Hydro Power
37. Lysite Water Supply
38. Middle Fork Dam
39. Middle Fork Powder Watershed Management Plan
40. North Canal-Grover
41. North Cheyenne Master Plan
42. Opal Regional Water Supply
43. Owl Creek Irrigation District Conservation Study

44. Owl Creek Irrigation Master Plan
45. Pinedale Hydro Power
46. Platte-Goshen Regional Master Plan
47. Popo Agie Watershed Management Plan
48. Powder River Water Supply
49. Ray Lake Enlargement
50. Rock Springs East Water Supply
51. Sheridan/Veterans Affairs Medical Center (VAMC) Water Supply Study
52. Smith's Fork Dam
53. South Garden Creek Water Supply
54. Tensleep/Hyattville Master Plan
55. Tensleep Water Supply
56. Thermopolis Storage and Raw Water
57. Three Horses Watershed Study
58. Upper Wind River Storage
59. Wagner Cherokee Irrigation Rehabilitation
60. Washakie County Safety
61. Water Value Study
62. Weather Modification – Salt River and Wyoming Ranges
63. Wheatland ID System Phase II
64. Worland Area Irrigated Lands GIS
65. Worland Eastside Transmission Line
66. Worland Wells Test
67. York/South Side Ditch Master Plan

Completed Construction 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:**	**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
04.	**PROJECT:**	**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

05. 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

06. 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

07. 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

08. 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

09. 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

10. 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

11. 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

12. 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

13. 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

14. 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

15. 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

16. PROJECT: 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

17. 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

18. 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

19. 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

20. 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.
Storage tank - X-It Construction
SESSION YEAR LAW: 2001 and 2002

21. 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

22. 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

23. 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

24. 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

25. 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

26. 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

27. 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

28. 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

29. 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

30. 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

31. 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

32. 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

33. 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

34. 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

35. 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

36. 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

37. 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

38. 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

39. 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

40. 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

41. 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

42. 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

43. 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

44. 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

45. 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

46. 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
47.	**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
48.	**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
49.	**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

50. 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

51. 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

52. 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

53. 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

54. 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

55. 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

56. 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

57. 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

58. 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

59. **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

60. **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

61. **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

62. **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

63. 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

64. 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

65. 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

66. 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

67. 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

68. 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

69. 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

70. 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

71. **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

72. **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

73. **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

74. **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

75. 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

76. 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

77. 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

78. 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

79. 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

80. 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

81. 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

82. 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

83. 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.

84. 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

85. 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

86. 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

87. 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

88. 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

89. **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

90. **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

91. **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)

92. **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

93. 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

94. 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 rehabilitation.
ENGINEER:	CEPI; Casper, Wyoming
CONTRACTOR:	Wyoming Power Wash, Inc.
YEAR COMPLETED:	2007
SESSION LAW YEAR:	2004

95. 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

96. 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

97. 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

98. 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

99. 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

100. 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

101. 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

102. 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
ENGINEER:	Crank Companies, Inc., Kemmerer, Wyoming
CONTRACTOR	LaMax Construction, Inc., Basin, Wyoming
COMPLETION DATE	2002
SESSION LAW	1998 & 1999

103. 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

104. 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

105. 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

106. 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

107. 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

108. 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

109. 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

110. 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

111. 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

112. 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

113. 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
114.	**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
115.	**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
116.	**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
117.	**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

118. 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

119. 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

120. 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

121. 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

122. 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

123. 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

124. 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

125. 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

126. 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

127. 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

128. 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

129. 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

130. 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

131. 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

132. 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

133. 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

134. 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

135. **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

136. 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

137. **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

138. **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

139. 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

140. 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

141. 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

142. 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

143. 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

144. 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

145. 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

146. 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

147. 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

148. 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

149. 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

150. 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

151. 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

152. 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

153. 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

154. 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

155. 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

156. 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

157. 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

158. 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

159. 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

160. 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
161.	**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
162.	**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
163.	**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

164. 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

165. 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

166. 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

167. 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
168.	**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
169.	**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
170.	**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
171.	**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

172. 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

173. 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

174. 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

175. 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

176. 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

177. 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

178. 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

179. 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

180. 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

181. 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

182. 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

183. 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

184. 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

185. 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

186. 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

187. 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

188. 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

189. 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

190. 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

191. 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

192. 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

193. 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

194. 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

195. 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

196. 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

197.	**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

198.	**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

199.	**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

200.	**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

201. 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

202. 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

203. 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

204. 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)

205. 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

206. 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

207. 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

208. 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
209.	**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 Graham, Dietz, and Associates; Cody, Wyoming
	CONTRACTOR:	Shoshone Irrigation District
	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
210.	**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
211.	**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
212.	**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
213.	**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
214.	**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

215. 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

216. 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

217. 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

218. 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
219.	**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
220.	**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
221.	**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
222.	**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
223.	**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

224. 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
Thomas Brothers Drilling, Afton, Wyoming
DATE COMPLETED: 1998
SESSION LAW DATE: 1995

225. 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

226. 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

227. 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

228. 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

229. 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

230. 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

231. 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

232. PROJECT: **Torrington 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

233. 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

234. 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

235. 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

236. 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

237. 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

238. 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

239. 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

240. 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

241. 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

242. 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

243. 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

244. 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

245. 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

246. 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

247. 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

248. 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

249. 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

250. 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

251. 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