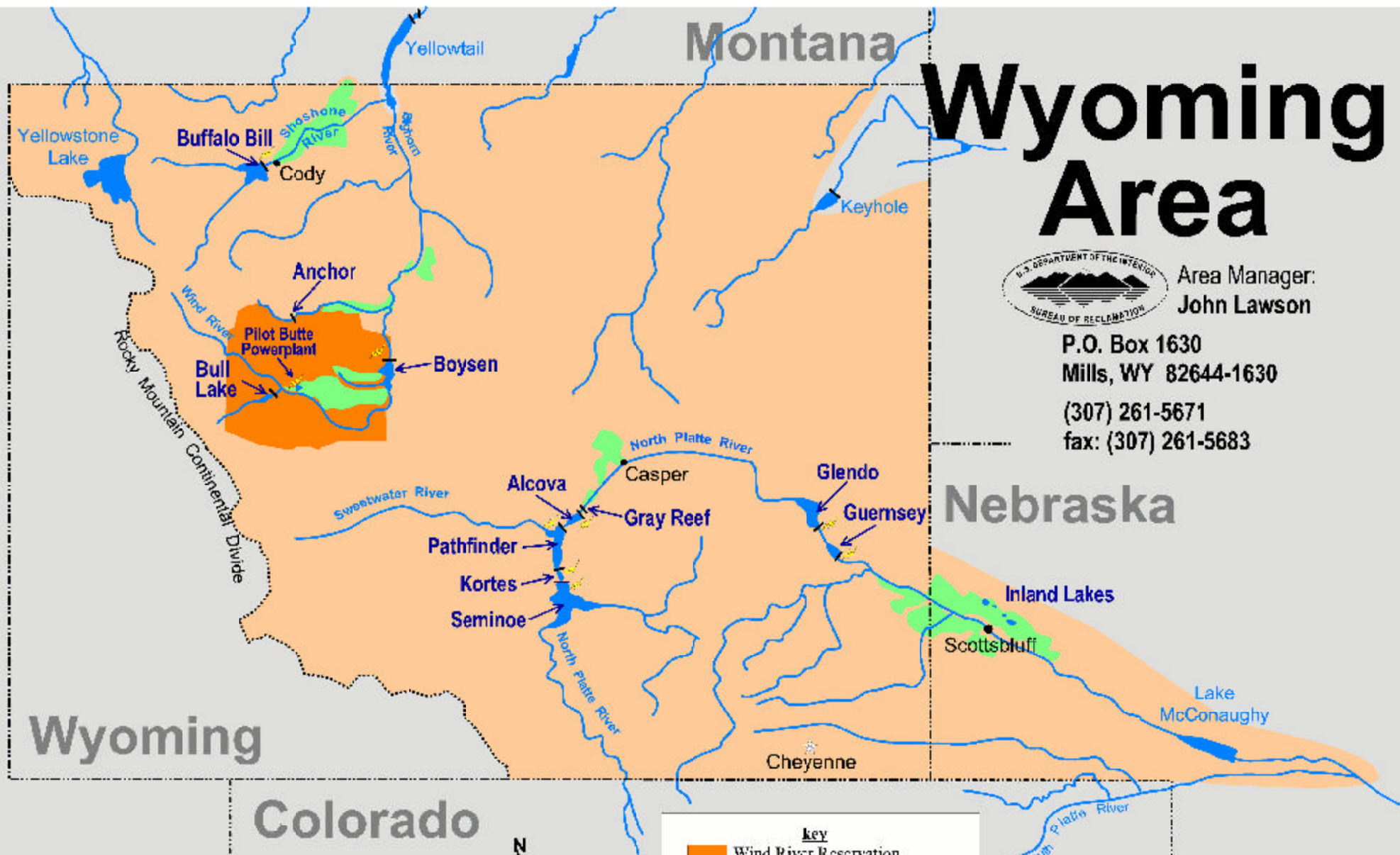


Wyoming Area



Area Manager:
John Lawson

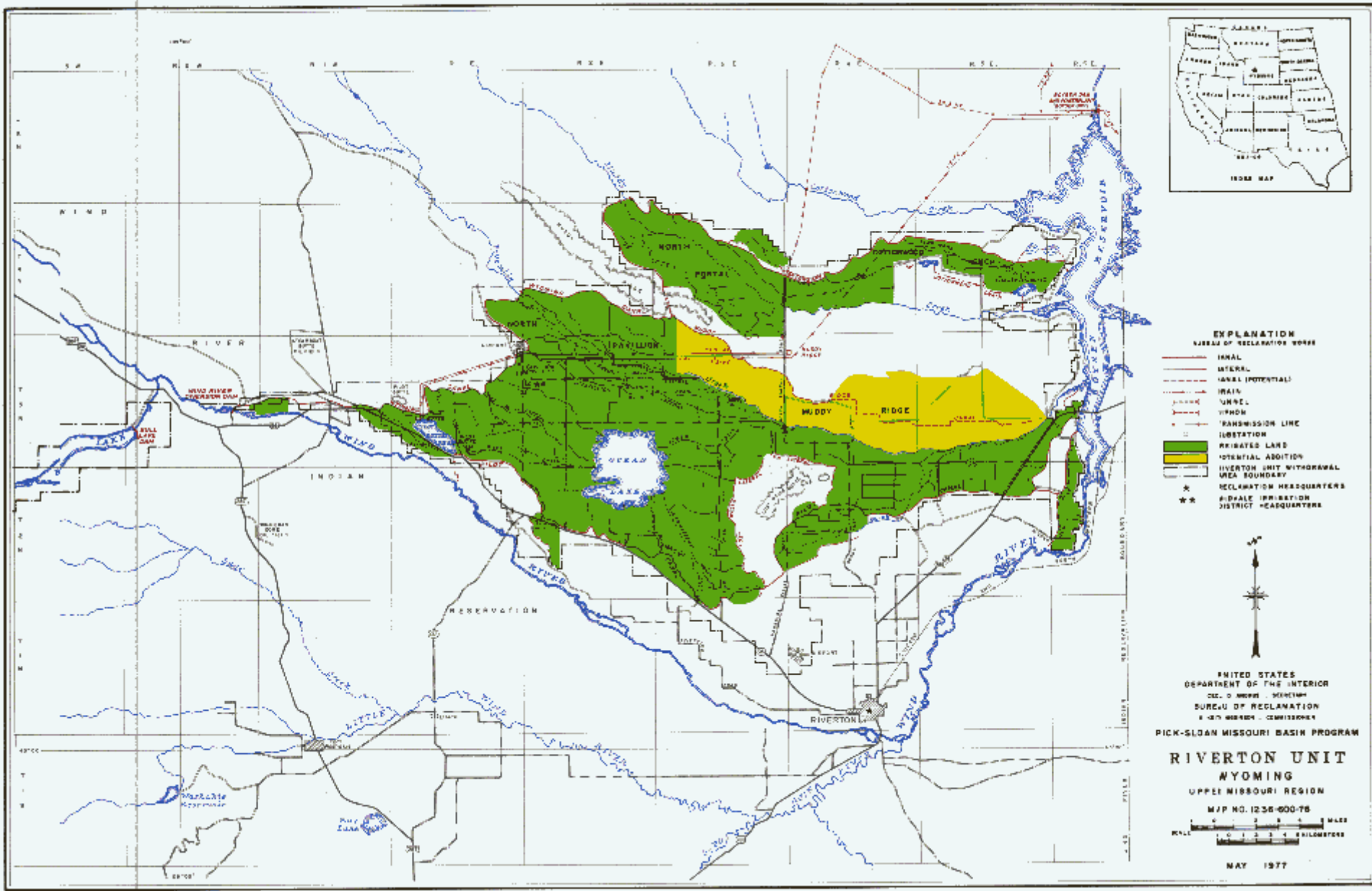
P.O. Box 1630
Mills, WY 82644-1630
(307) 261-5671
fax: (307) 261-5683



- key**
- Wind River Reservation
 - Wyoming Area
 - irrigated lands (Reclamation)
 - Bureau of Reclamation dams
 - hydropower facilities



Presentation to the Wind/Platte River Basin DAC
April 9, 2002
Cody, Wyoming



- EXPLANATION**
BUREAU OF RECLAMATION WORKS
- INTERNAL CANAL
 - - - - - INTERNAL (POTENTIAL) CANAL
 - CANAL
 - - - - - UNDEVELOPED CANAL
 - TRANSMISSION LINE
 - IRRIGATED LAKE
 - POTENTIAL ADDITION
 - UNIT WITHDRAWAL AREA BOUNDARY
 - ☆☆ RECLAMATION HEADQUARTERS
 - ☆☆ DISTRICT HEADQUARTERS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
PICK-SLOAN MISSOURI BASIN PROGRAM

RIVERTON UNIT
WYOMING
UPPER MISSOURI REGION
M/P NO. 1256-600-76

SCALE
0 1 2 3 4 MILES
0 1 2 3 4 KILOMETERS

MAY 1977



BULL LAKE RESERVOIR ALLOCATIONS





Riverton Unit Benefits

Irrigation

- Water Supply From Bull Lake Creek and the Wind River serves 72,197 acres of Midvale ID lands

Power Generation

- Two 800 kW generators at the inlet of Pilot Butte Reservoir
- Average annual generation of 3,000,000 kWh

Flood Control

- No space allocated for flood control but some flood protection is provided by operation for other purposes
- The Corps of Engineers estimates Bull Lake Reservoir has prevented \$2,690,300 in flood damages since 1950

Recreation

- Pilot Butte Reservoir is managed By the Bureau of Reclamation
- Ocean Lake is managed by the Wyoming Game and Fish Department
- Lake Cameahwait is managed by the Wyoming Game and Fish Department

Riverton Unit Project Features

Bull Lake Reservoir - 152,459 acre-feet capacity at top of conservation pool

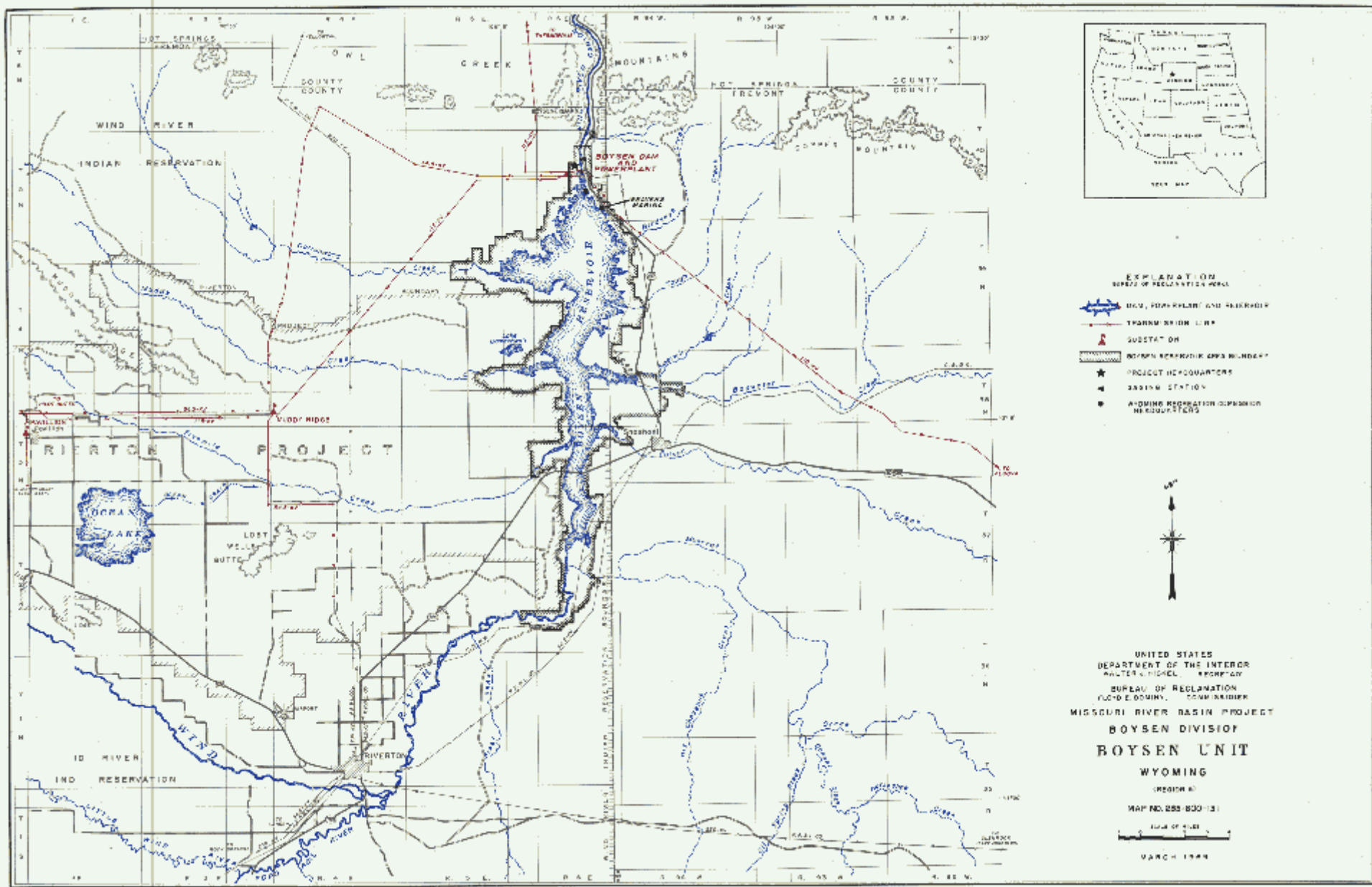
Pilot Butte Reservoir - 33,721 acre-feet capacity at top of conservation pool

Pilot Butte Powerplant - 1,600 kW generating capacity

Diversion Dam - diverts water from the Wind River into the Wyoming Canal

Wyoming Canal - diversion capacity of 2,200 cfs

Pilot Canal - diversion capacity of 1,000 cfs

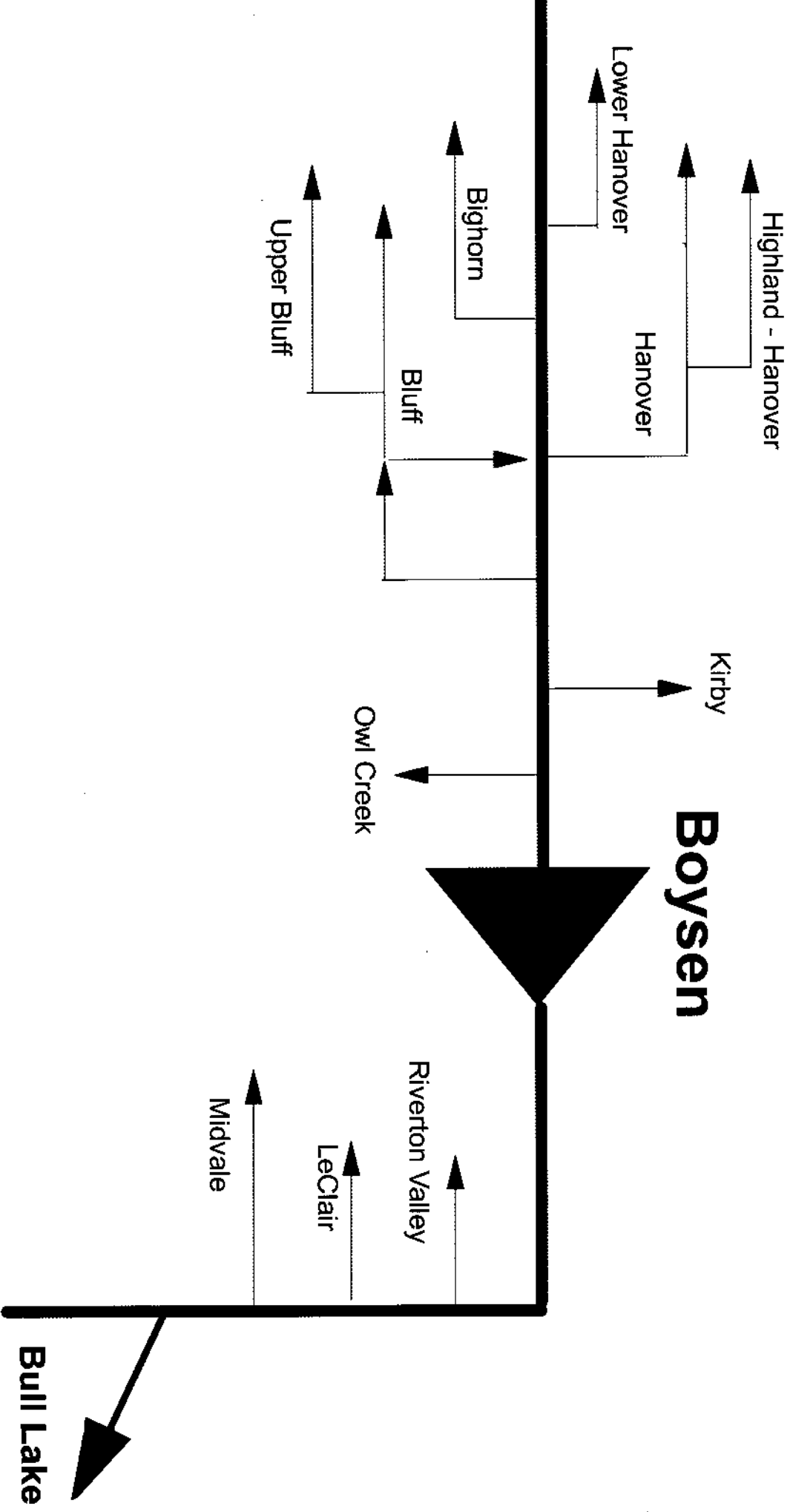


- EXPLANATION OF SYMBOLS OF RECLAMATION WORK
- DAM, POWER LINE AND RESERVOIR
 - TRANSMISSION LINE
 - SUBSTATION
 - BOYSEN RESERVOIR AND RIVERBANK
 - PROJECT HEADQUARTERS
 - STATION STATION
 - WINDING RESERVOIR OR DAM HEADQUARTERS



UNITED STATES
DEPARTMENT OF THE INTERIOR
RALPH C. DICKEY, SECRETARY
BUREAU OF RECLAMATION
CLAUDE D. DODD, CHIEF ENGINEER
MISSOURI RIVER BASIN PROJECT
BOYSEN DIVISION
BOYSEN UNIT
WYOMING
(REGION 6)
MAP NO. 255-830-13
SCALE OF 1:50,000
MARCH 1944





BOYSEN RESERVOIR ALLOCATIONS

Elev. 4758.0
Dam Crest

Maximum Water Surface / top of Surcharge Elev. 4752.0 (1,412,905 Acre-Feet)

Surcharge - 520,679 Acre-Feet

Top of Flood Control Elev. 4732.2 (892,226 Acre-Feet)

Exclusive Flood Control 150,632 Acre-Feet

Top of Joint Use - Elev. 4725.0 (741,594 Acre-Feet)

Joint Use - 144,229 Acre-Feet

Top of Active Conservation Elev. 4717.0 (597,365 Acre-Feet)

POWER

IRRIGATION

FLOOD CONTROL

RECREATION

Active Conservation - 378,184 Acre-Feet

FISH

INDUSTRIAL

MUNICIPAL

Top of Inactive Conservation Elev. 4685.0 (219,181 Acre-Feet)

Inactive Conservation - 179,097 Acre-Feet

Top of Dead Elev. 4657.0

Dead - 40,084 Acre-Feet

Streambed Elev. 4608.0

Gated
Spillway Crest
Elev. 4700.0

Outlet & Penstock
Inverted Elev. 4657.0

7/28/00

Note: Symbols represent typical reservoir uses.

Boysen Unit Benefits

Irrigation

Water Supply From the Wind River to:

- Federal Projects - Hanover Bluff Unit serving 8,490 acres, and Owl Creek Unit serving 11,251 acres
- Non-Federal Long Term Contractors - LeClair ID, Riverton Valley ID, Hanover ID, Bighorn Canal ID
- Municipal and Industrial Contractors - Towns of Thermopolis, Kirby, and Shoshoni, and Lucerne

Water and Sewer District

- Temporary Contracts contingent on availability of water and demand

Power Generation

- Two 7,500 kW generators
- Average annual generation of 79,200,000 kWh
- Discharge capacity of approximately 2,200 cfs

Flood Control

- Flood Control Pool operated by the Corps of Engineers
- The Corps of Engineers estimates Boysen Reservoir has prevented \$76,397,400 in flood damages since 1952

Recreation

- Boysen State Park is managed By the Wyoming State Parks and Historic Sites

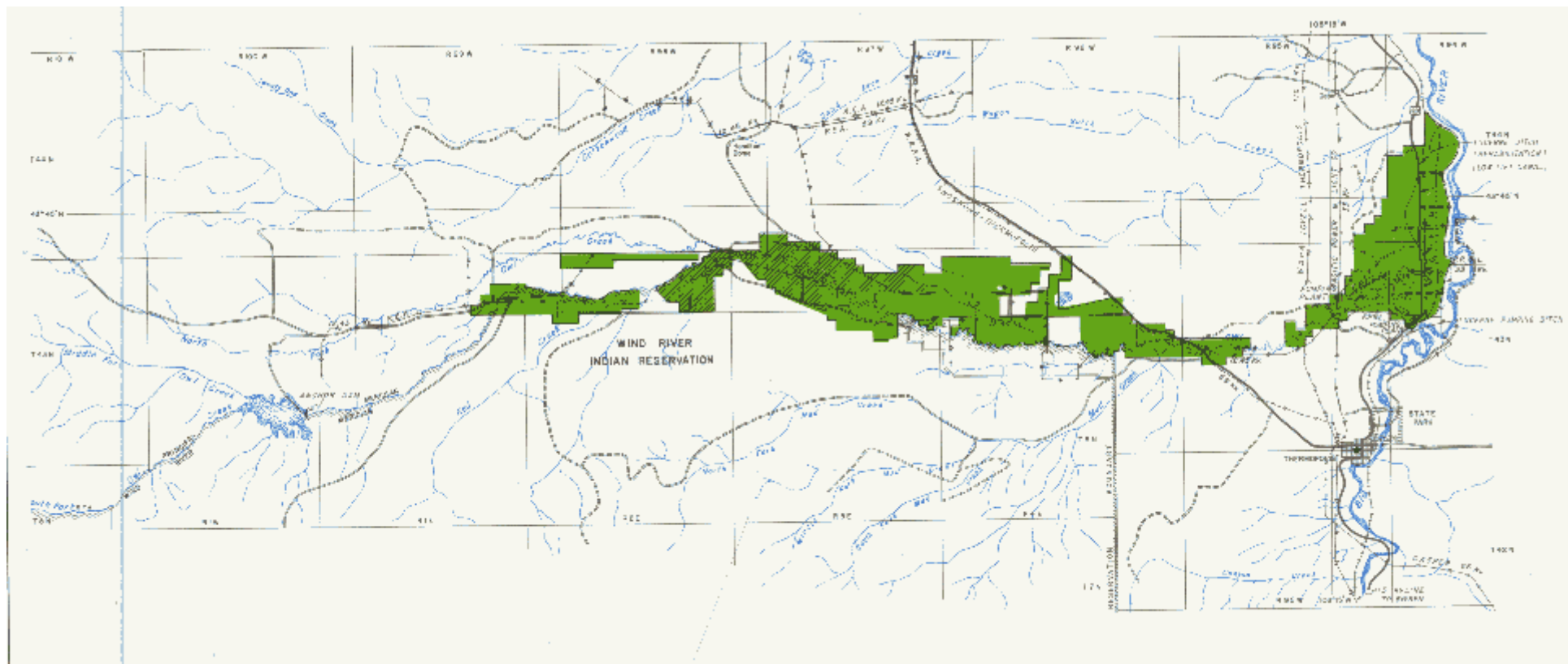
Fish and Wildlife

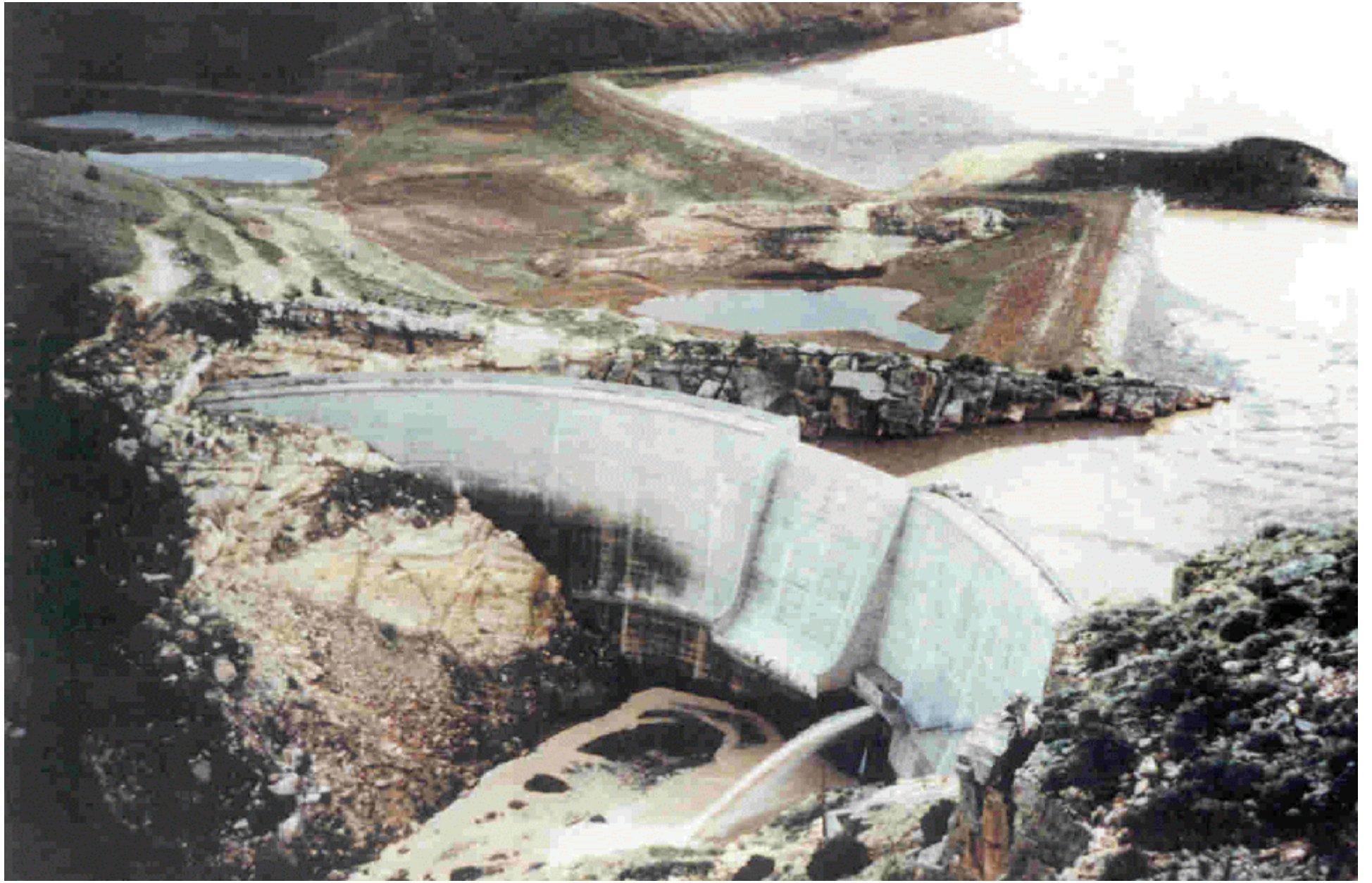
- Boysen Reservoir fishery is managed by the Wyoming Game and Fish Department

Boysen Unit Project Features

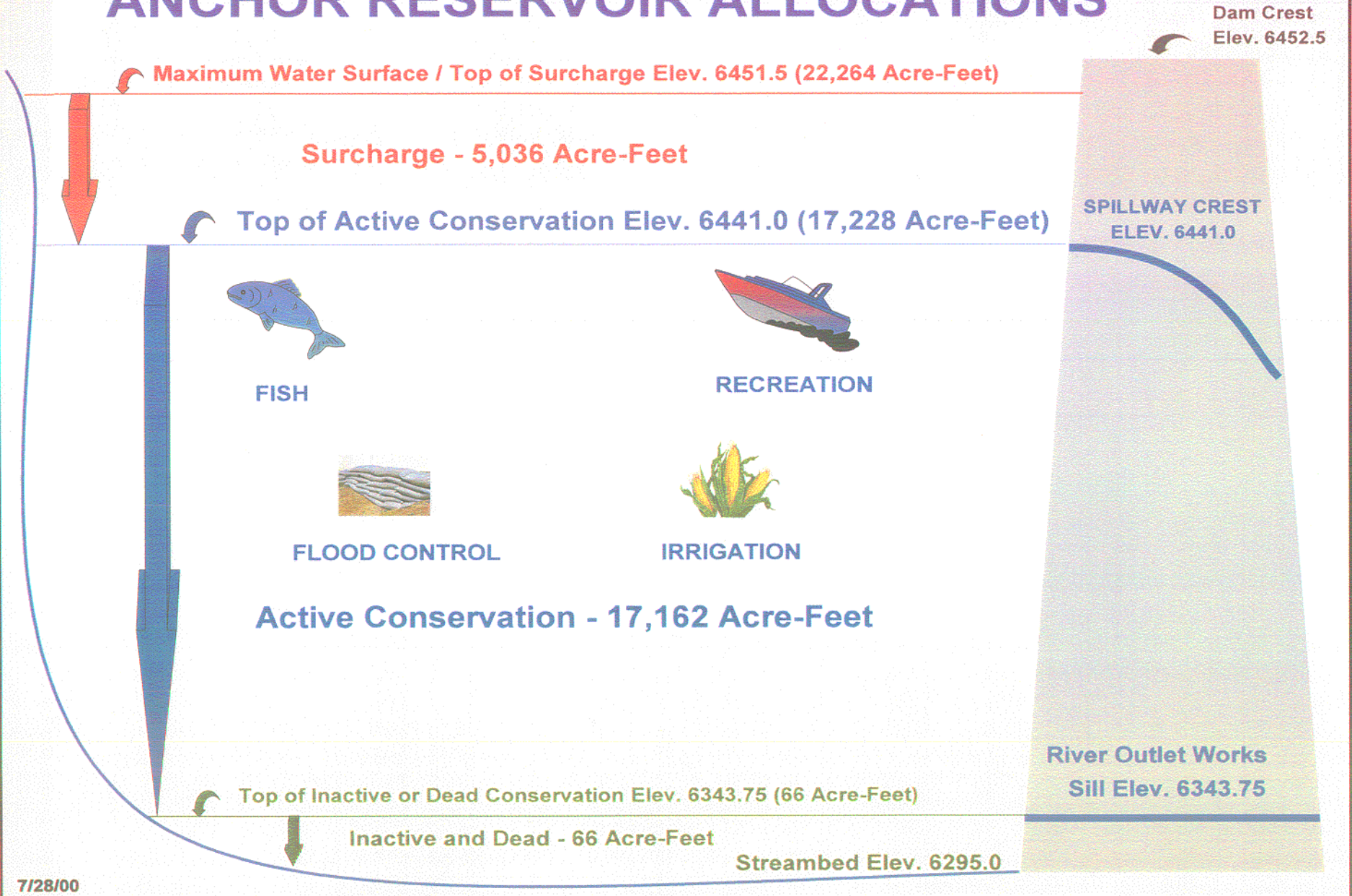
Boysen Reservoir - 741,594 acre-feet capacity at top of conservation pool

Boysen Powerplant - 15,000 kW generating capacity





ANCHOR RESERVOIR ALLOCATIONS



7/28/00

Note: Symbols represent typical reservoir uses.

Owl Creek Unit Benefits

Irrigation

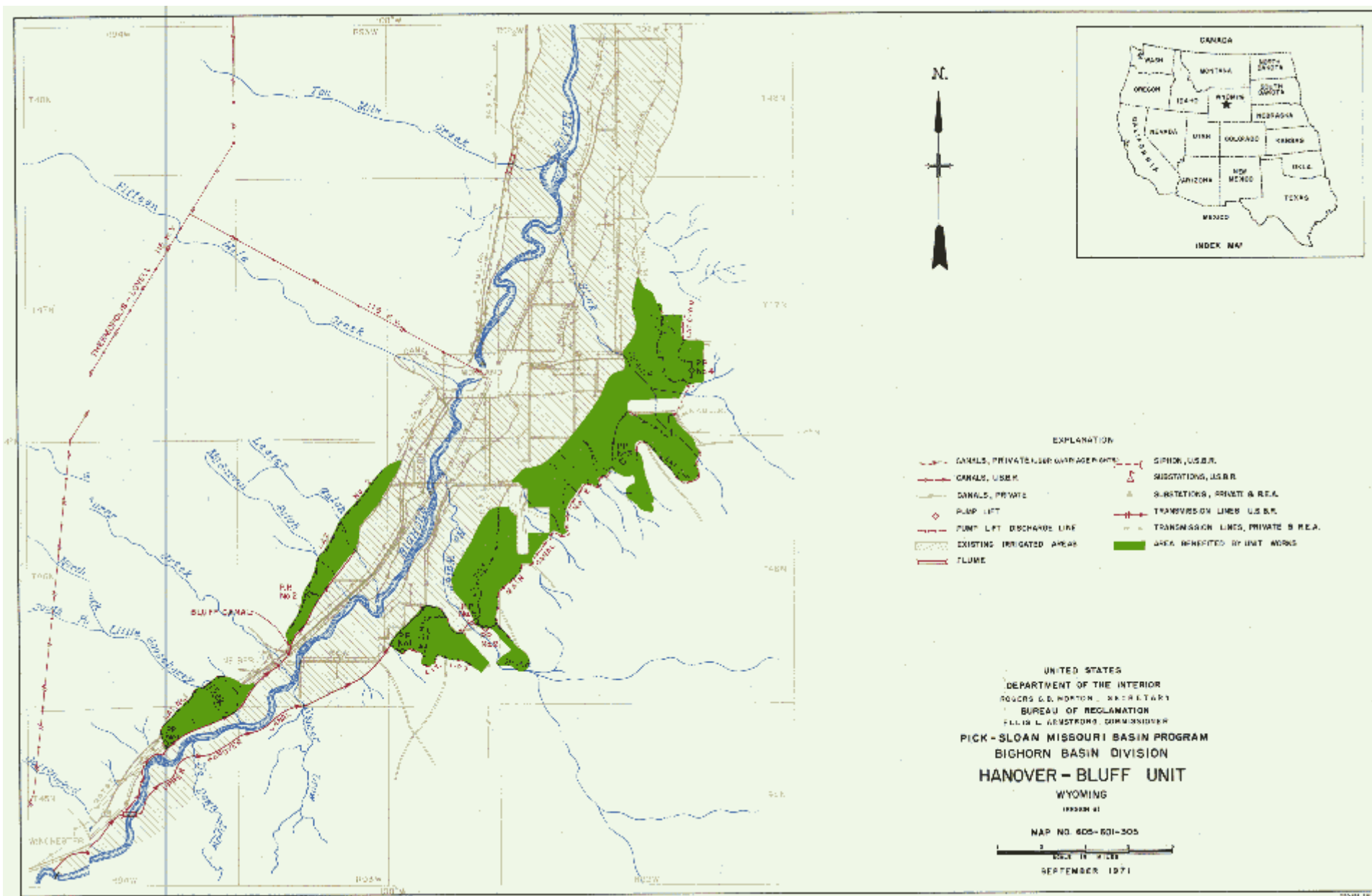
Water Supply from Owl Creek and the Bighorn River serves 11,251 acres of Owl Creek ID lands

Owl Creek Unit Project Features

Anchor Reservoir - 17,229 acre-feet capacity at top of conservation pool

Lucerne Pumping Plant No. 1 - 84 cfs capacity

Lucerne Pumping Plant No. 2 - 33 cfs capacity



- EXPLANATION
- CANALS, PRIVATE USER MANAGED
 - CANALS, USER
 - CANALS, PRIVATE
 - PUMP LIFT
 - PUMP LIFT DISCHARGE LINE
 - EXISTING IRRIGATED AREAS
 - FLUME
 - SIFON, U.S.B.R.
 - SUBSTATIONS, U.S.B.R.
 - SUBSTATIONS, PRIVATE & R.E.A.
 - TRANSMISSION LINES, U.S.B.R.
 - TRANSMISSION LINES, PRIVATE & R.E.A.
 - AREA BENEFITED BY UNIT WORKS

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 ROBERTS C. HORTON, SECRETARY
 BUREAU OF RECLAMATION
 F. L. L. ARMSTRONG, COMMISSIONER

PICK-SLOAN MISSOURI BASIN PROGRAM
 BIG HORN BASIN DIVISION
HANOVER - BLUFF UNIT
 WYOMING
 PROGRAM 41

NAP NO. 605-601-305
 SCALE 1" = 1 MILE
 SEPTEMBER 1971

Hanover - Bluff Unit Benefits

Irrigation

Water Supply from the Wind River serves 6,992 acres of Highland - Hanover ID lands and 1,498 acres of Upper Bluff ID lands

Hanover - Bluff Unit Project Features

Hanover Diversion Dam - Diversion Capacity of 487 cfs

Hanover Pumping Plant No. 1 - 20 cfs capacity

Hanover Pumping Plant No. 2 - 100 cfs capacity

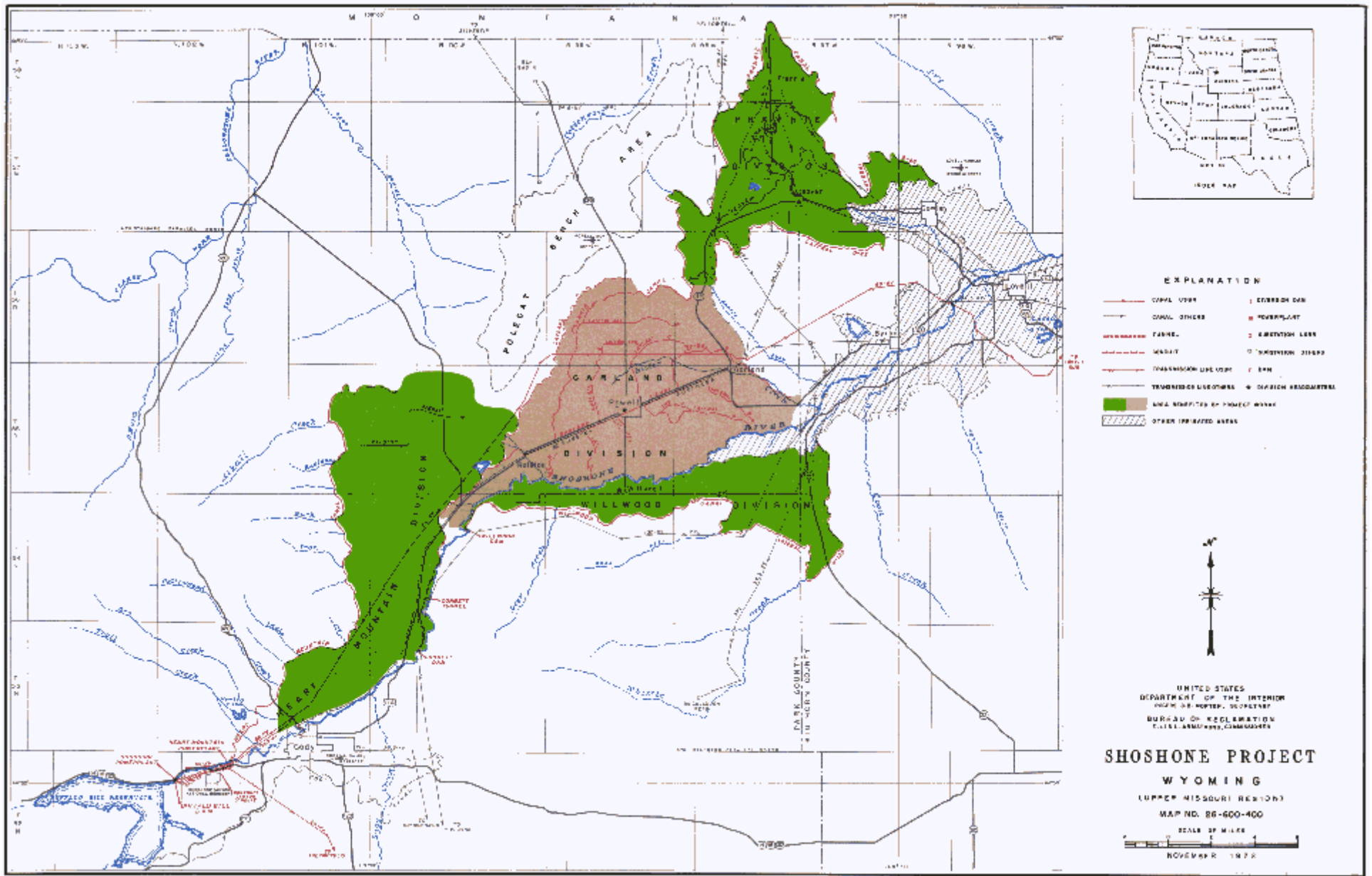
Hanover Pumping Plant No. 3 - 17 cfs capacity

Hanover Pumping Plant No. 4 - 17 cfs capacity

Hanover Pumping Plant No. 5 - 25 cfs capacity

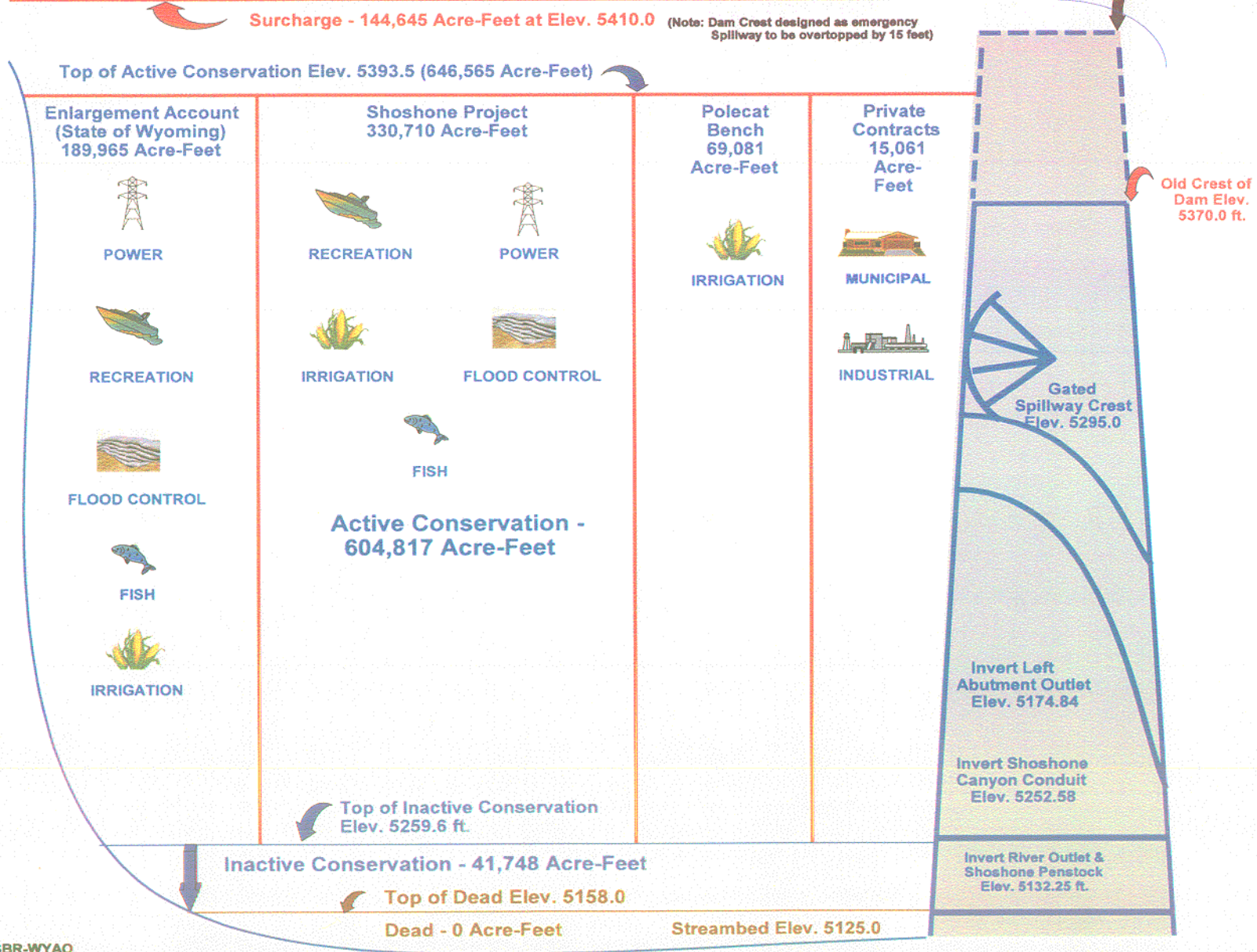
Bluff Pumping Plant No. 1 - 17 cfs capacity

Bluff Pumping Plant No. 2 - 20 cfs capacity





BUFFALO BILL RESERVOIR STORAGE ALLOCATIONS



USBR-WYAO
Mills, WY 04/10/01

Note: Symbols represent typical reservoir uses.

BUFFALO BILL RESERVOIR ALLOCATIONS

Dam Crest
Elev. 5395.0

Surcharge - 144,645 Acre-Feet at Elev. 5410.0

(Note: Dam Crest designed as emergency Spillway to be overtopped by 15 feet)

South Fork Dike Crest Elev. 5401.0
Content 2575 Acre-Feet

South Fork Ungated Spillway Crest Elev. 5394.0

Top of Active Conservation Elev. 5393.5 (646,565 Acre-Feet)

North Fork Dike Crest Elev. 5370.0
Content 1639 Acre-Feet

South Fork Outlet
Elev. 5367.6

North Fork Ungated
Spillway Crest
Elev. 5365.0

North Fork Outlet
Elev. 5340.0

Active Conservation - 604,817 Acre-Feet



IRRIGATION



RECREATION



POWER



FLOOD CONTROL



FISH



INDUSTRIAL



MUNICIPAL



Gated
Spillway Crest
Elev. 5295.0

Invert Left
Abutment Outlet
Elev. 5174.84

Invert Shoshone
Canyon Conduit
Elev. 5252.58

Invert River Outlet &
Shoshone Penstock
Elev. 5132.25

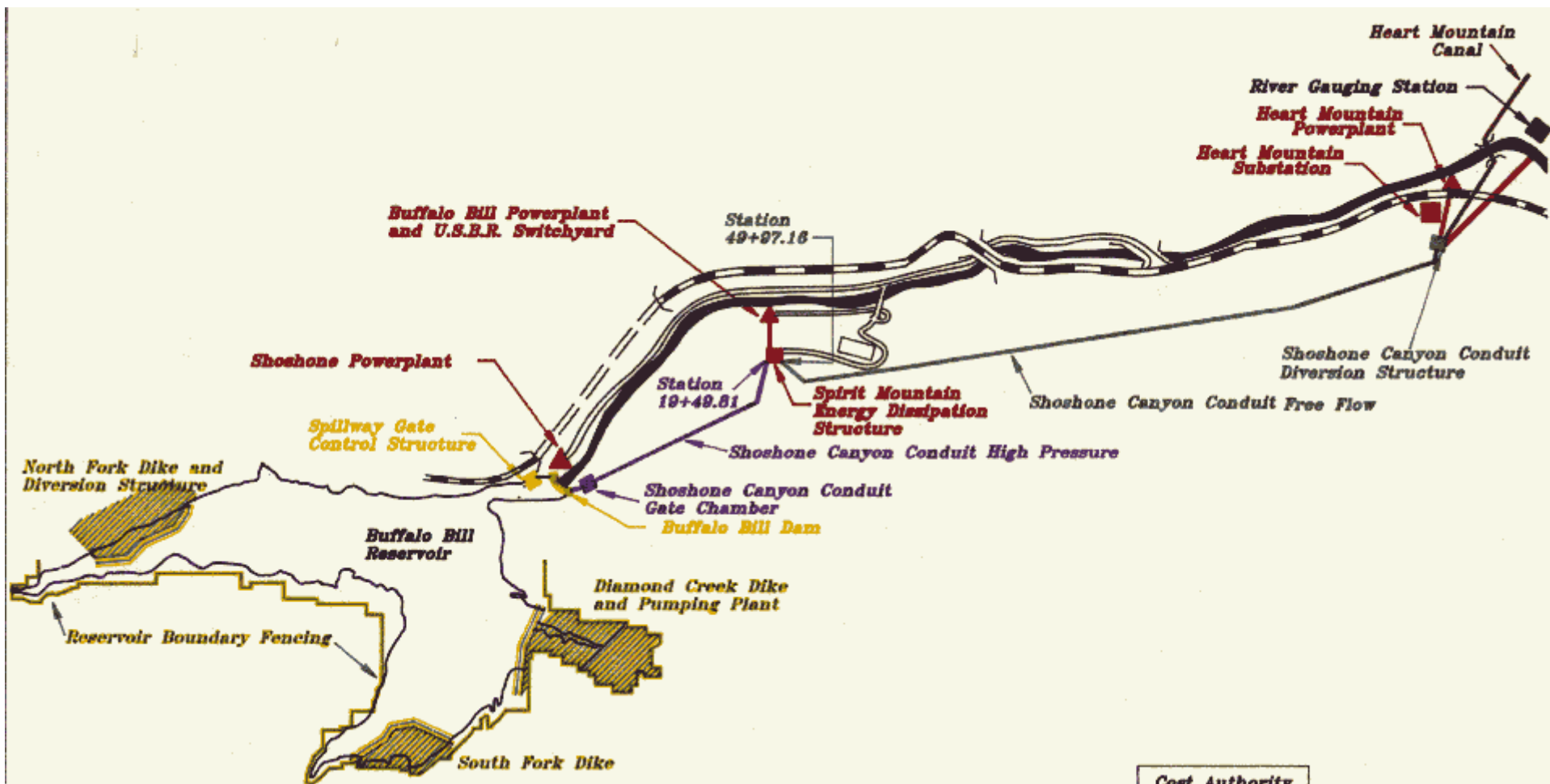
Top of Inactive Conservation Elev. 5259.6 (41,748 Acre-Feet)

Inactive Conservation - 41,748 Acre-Feet

Top of Dead Elev. 5158.0

Dead - 0 Acre-Feet

Streambed Elev. 5125.0



Cost Authority

Shoshone Project and Buffalo Bill Unit

Irrigation

Water Supply from the Shoshone River to:

- Federal Projects - Shoshone Project serving 93,824 acres
- Non-Federal Long Term Contractors - Cody Canal, North Fork Valley Ditch Co.
- Municipal and Industrial Contractors - Shoshone Municipal Water Joint Powers Board

Power Generation

- Heart Mountain Powerplant (Shoshone Project)
 - One 6,000 kW generator
 - Average annual generation of 13,400,000 kWh
 - Discharge capacity of approximately 360 cfs
- Shoshone Powerplant (Buffalo Bill Unit)
 - One 3,000 kW generator
 - Average annual generation of 21,900,000 kWh
 - Discharge capacity of approximately 200 cfs
- Buffalo Bill Powerplant (Buffalo Bill Unit)
 - Three 6,000 kW generators
 - Average annual generation of 78,400,000 kWh
 - Discharge capacity of approximately 930 cfs
- Spirit Mountain Powerplant (Buffalo Bill Unit)
 - One 4,500 kW generator
 - Average annual generation of 3,000,000 kWh
 - Discharge Capacity of approximately 560 cfs

Flood Control

- No space allocated for flood control but some flood protection is provided by operation for other purposes
- The Corps of Engineers estimates Buffalo Bill Reservoir has prevented \$9,440,700 in flood damages since 1950

Recreation

- Buffalo Bill State Park is managed By the Wyoming State Parks and Historic Sites

Fish and Wildlife

- Buffalo Bill Reservoir fishery is managed by the Wyoming Game and Fish Department

Shoshone Project Features

Buffalo Bill Reservoir - 646,565 acre-feet capacity at top of conservation pool

Heart Mountain Powerplant - 6,000 kW generating capacity

Shoshone Canyon Conduit - diversion capacity of 2,130 cfs

Heart Mountain Canal - diversion capacity of 915 cfs

Corbett Diversion Dam - diverts water from the Shoshone River into the Garland Canal

Garland Canal - diversion capacity of 1,000 cfs

Willwood Diversion Dam - diverts water from the Shoshone River into the Willwood Canal

Willwood Canal - diversion capacity of 320 cfs

Buffalo Bill Unit Features

Shoshone Powerplant - 3,000 kW generating capacity

Buffalo Bill Powerplant - 18,000kW generating capacity

Spirit Mountain Powerplant - 4,500 kw generating capacity

North Fork Dike and South Fork Dike- designed to hold water in areas that would become dry as the reservoir level decreased to reduce the area of dry lake bed

Diamond Creek Dike - constructed to prevent Diamond Creek and Irma Flats from being inundated by the enlarged reservoir

Diamond Creek Reservoir - holds the flow of Diamond Creek at the base of Diamond Creek Dike

Diamond Creek Pumping Plant - pumps water from Diamond Creek Reservoir into Buffalo Bill Reservoir