



IN REPLY
REFER TO

United States Department of the Interior

BUREAU OF RECLAMATION
MINIDOKA PROJECT OFFICE
1359 HANSEN AVENUE
BURLEY, IDAHO 83318-1821

December 11, 1986

MINUTES OF COMMITTEE MEETING
HELD TO
DETERMINE AND APPROVE THE NET POWER PRODUCTION LOSSES
AT THE
MINIDOKA POWERPLANT DURING 1985

There was no net power production loss for the year ending September 30, 1985. The average annual loss for the 20-year period ending 1985 is 3,883,700 kWh. The following table shows the 20-year average net power losses for the past nine years.

<u>Year</u>	<u>kWh</u>		<u>Mills/kWh</u>	
1985	3,883,700	x	5.1	\$19,806.87
1984	3,883,700	x	5.1	19,806.87
1983	4,523,500	x	5.1	23,069.85
1982	5,088,100	x	5.1	25,949.31
1981	5,309,750	x	5.1	27,079.73
1980	6,307,500	x	3.6	22,707.00
1979	5,899,500	x	3.6	21,238.20
1978	6,314,000	x	3.6	22,730.40
1977	5,663,000	x	3.6	20,386.80

The distribution to the reservoirs of the \$19,806.87 for 1985, in accordance with contract provisions, is as follows:

Island Park 12% = \$ 2,376.82
Palisades 10% = \$ 1,980.69
American Falls. 78% = \$15,449.36

TOTAL = \$19,806.87

SCANNED
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The following were in attendance:

Evan Rasmussen
Lester Saunders
Ross D. Newcomb
Leonard Scheer
John Keys III
David Cotten
Earl Corless
Max Van Den Berg

Burley Irrigation District
North Side Canal Company
Minidoka Irrigation District
Minidoka Irrigation District
Bureau of Reclamation
Bureau of Reclamation
Bureau of Reclamation
Bureau of Reclamation

The committee reviewed the computation methods for arriving at the annual power loss, and after these calculations were discussed it was moved and seconded that they be accepted and the data be presented to the Committee of Nine meeting scheduled this date. The motion was approved.



Earl M. Corless
Secretary Pro Tem

HENRYS LAKE Elev. 6470'
90,000 Acre Feet
Contents 76,820 ac.ft.
85 % Full

ISLAND PARK Elev. 6302'
127,000 Acre Feet
Contents 111,205 ac.ft.
87 % Full

GRASSY LAKE Elev. 7210'
15,180 Acre Feet
Contents 12,572 ac.ft.
83 % Full

JACKSON LAKE Elev. 6745.0
284,450 Acre Feet
Contents 87,708 ac.ft.
31 % Full

6769'
Restricted Area
847,000 Ac. Ft.

PALISADES Elev. 5620'
1,200,000 Acre Feet
Contents 1,184,122 ac.ft.
99 % Full

RIRIE Elev. 5113
80,540 Acre Feet
Contents 35,115 ac.ft.
44 % Full

AMERICAN FALLS Elev. 4355
1,672,590 Acre Feet
Contents 1,015,570 ac.ft.
61 % Full

LAKE WALCOTT Elev. 4246'
95,180 Acre Feet
Contents 64,125 ac.ft.
67 % Full

MILNER DAM Elev. 4151'
30,000 Acre Feet
Contents 30,000 ac.ft.
100 % Full

U.S. BUREAU OF RECLAMATION
UPPER SNAKE RIVER RESERVOIR SYSTEM
TOTAL SYSTEM CAPACITY 4,157,490
Status on December 1, 1986
Today's Storage 2,617,237 ac. ft.
System is 63 % Filled

2/12/80 E.M.C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
Minidoka Project Office
Burley, Idaho

Statement of Expenditures and Estimates

Minidoka Dam & Headworks

Calendar Years 1986 and 1987

Costs	Estimated 1986	Actual 1986	Estimated 1987
Operation	\$ 38,000	\$ 47,000	\$ 47,000
Maintenance	46,000	23,000	52,000
Gen. & Admin. Expenses. .	31,000	33,000	33,000
SUB-TOTAL	\$115,000	\$103,000	\$132,000
Less: Power Allocation .	-46,000	-50,000	61,000
Less: Fish & Wildlife and Recreation Credit	-8,000	-8,000	11,000
GRAND TOTALS	\$ 61,000	\$ 45,000	\$ 60,000

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UNITED STATES
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Statement of Expenditures and Estimates

Jackson Lake Reservoir

Calendar Years 1986 and 1987

Costs	Estimated 1986	Actual 1986	Estimated 1987
Operations.	\$ 58,000	\$ 55,000	\$ 56,000
Maintenance	35,000	39,000	40,000
Gen. & Admin. Expenses. .	52,000	53,000	54,000
<u>SUB-TOTALS.</u>	<u>145,000</u>	<u>147,000</u>	<u>150,000</u>
Flood Allocation Credit .	-44,000	-47,000	-46,000
Recreation Credit/Fish & <u>Wildlife.</u>	<u>-11,000</u>	<u>-12,000</u>	<u>-12,000</u>
<u>GRAND TOTALS.</u>	<u>\$90,000</u>	<u>\$88,000</u>	<u>\$ 92,000</u>

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Statement of Expenditures and Estimates

Island Park Reservoir

Calendar Years 1986 and 1987

Costs	Estimated 1986	Actual 1986	Estimated 1987
Operation	\$ 17,000	\$ 16,000	\$ 17,000
Maintenance	14,000	16,000	12,000
Gen. & Admin. Expenses. .	9,000	9,000	9,000
SUB-TOTALS.	\$ 40,000	\$ 41,000	\$ 38,000
Flood Allocation Credit .	-4,000	-6,000	-5,000
Recreation Credit/Fish & Wildlife.	-3,000	-4,000	-3,000
TOTALS - Island Park. . .	\$ 33,000	\$ 31,000	\$ 30,000
<u>Grassy Lake Reservoir</u> <u>Feature</u>			
Operation	\$ 8,000	\$ 5,000	\$ 7,000
Maintenance	8,000	6,000	7,000
Gen. & Admin. Expenses. .	9,000	9,000	9,000
Recreation Credit Fish & Wildlife.	-2,000	-1,000	-1,000
TOTALS - Grassy Lake. . .	\$ 23,000	\$ 19,000	\$ 22,000
GRAND TOTALS -- Island Park & Grassy Lake	\$ 56,000	\$ 50,000	\$ 52,000

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Statement of Expenditures and Estimates

Palisades Reservoir

Calendar Years 1986 and 1987

Costs	Estimated 1986	Actual 1986	Estimated 1987
Operation	\$ 36,000	\$ 36,000	\$ 37,000
Maintenance	17,000	13,000	14,000
Gen. & Admin. Expenses. .	37,000	42,000	41,000
Joint Expense Debits (Camp Operations) . . .	11,000	3,000	7,000
TOTALS.	\$101,000	\$ 94,000	\$ 99,000
Total Multipurpose Cost		\$323,000	
Irrigation	29.1% = \$ 94,000		
Flood Control	29.1% = \$ 94,000		
Power	33.8% = \$109,000		
Recreation Fish & Wildlife	8.0% = \$ 26,000		

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Statement of Expenditures and Estimates

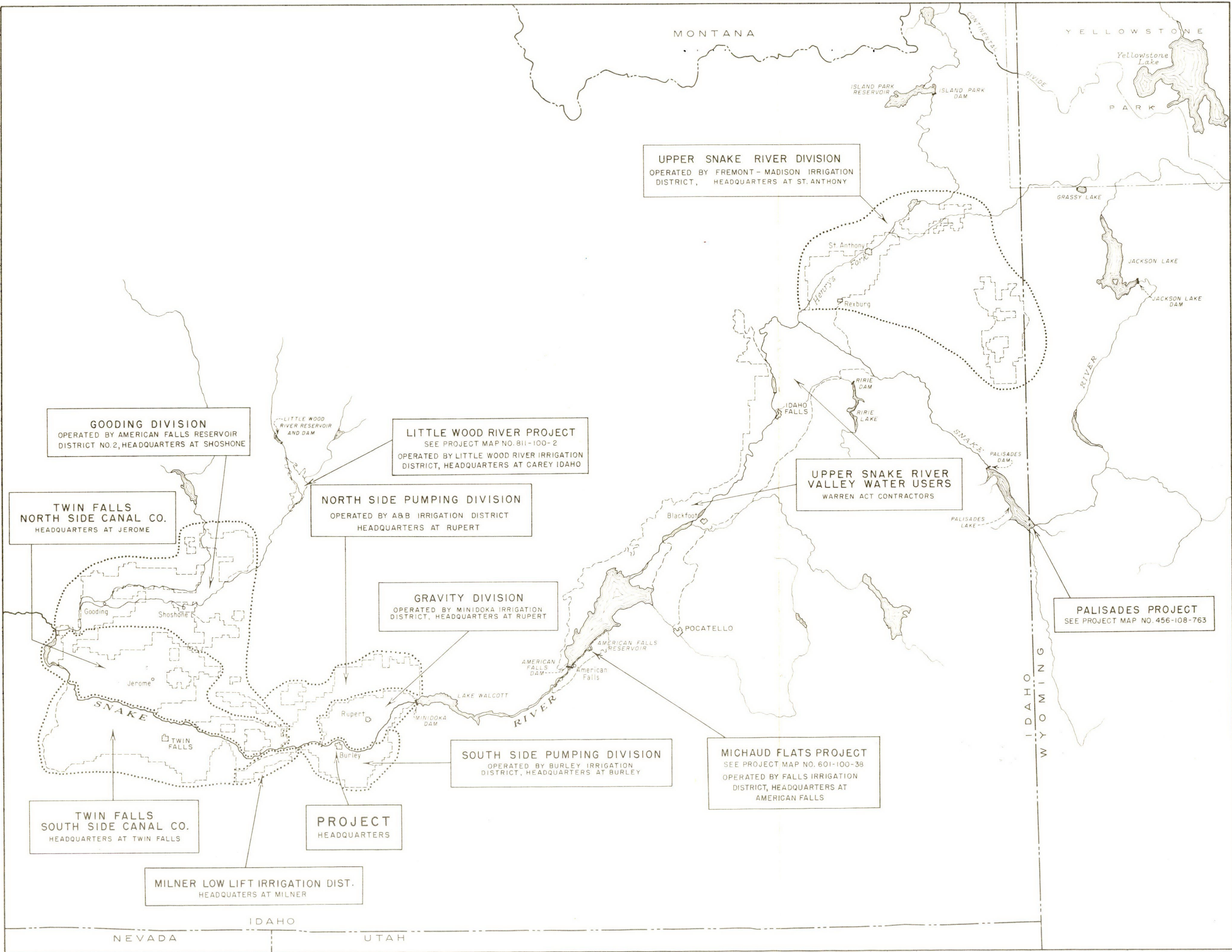
American Falls Reservoir

Calendar Years 1986 and 1987

Costs	Estimated 1986	Actual 1986	Estimated 1987
Operation	\$ 77,000	\$ 70,000	\$ 75,000
Maintenance	77,000	82,000	80,000
Gen. & Adm. Expenses. . .	46,000	47,000	47,000
Shoreline Protection Program --		--	340,000
<u>SUB-TOTALS</u>	<u>\$200,000</u>	<u>\$199,000</u>	<u>542,000</u>
Power Credit	-45,000	-38,000	-40,000
Flood Control	-48,000	-55,000	-182,000
Recreation Credit/ Fish & Wildlife	-12,000	-13,000	-43,000
BALANCE	\$95,000	\$93,000	\$ --
Land Purchases - Erosion of Private Land, \$.15 Assessment for each acre foot. . . \$255,000 (\$.20 for CY 1985)		\$253,000	\$ --
<u>TOTAL</u>	<u>\$350,000</u>	<u>\$346,000</u>	<u>*\$277,000</u>

*Spaceholders in 1987 pay approximately \$.12 per acre foot for erosion control program.

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FACTUAL DATA - MINIDOKA PROJECT, IDAHO

WATER SUPPLY

Water for the Minidoka Project comes primarily from the Snake River Watershed above Neeley which has an area of 13,600 square miles. The average annual runoff for the period 1927-77 at Neeley, immediately below the American Falls Dam, is 5,235,000 acre-feet.

Water supply for Unit B of the North Side Pumping Division comes from deep wells.

Reservoirs for the storage of water have a combined capacity of 4,402,076 acre-feet with a total irrigation storage capacity of 4,064,625 acre-feet. The reservoirs and their storage capacities in acre-feet are as follows:

Reservoir	Total Constructed Capacity	Active Storage Capacity	Location
1 Jackson Lake	847,000	847,000	On South Fork of Snake River at Moran, Wyoming
2 Island Park	127,646	127,265	On North (Henry's) Fork of Snake River, Idaho
3 Grassy Lake	15,450	15,180	On Grassy Creek adjacent to south boundary of Yellowstone National Park
4 Palisades	1,402,000	1,200,000	On South Fork of Snake River near Irwin, Idaho
5 American Falls	1,700,000	1,700,000	On Snake River near American Falls, Idaho
6 Lake Walcott	209,980	95,180	On Snake River near Rupert, Idaho
7 Ririe Reservoir	100,000	80,000	On Willow Creek near Ririe, Idaho

PROJECT FEATURES

The project features include, for the reservoirs listed above, seven storage dams with two powerplants.

The Bureau of Reclamation operates the Minidoka Powerplant at Minidoka Dam, Idaho. The powerplant has a capacity of 13,400 kilowatts and furnishes power to pumping plants, farms, and communities in Cassia and Minidoka Counties. Supplemental power is wheeled from Boise and Palisades Projects over Idaho Power Company transmission lines.

The Bureau of Reclamation operates the Palisades Powerplant at Palisades Dam. The four generators in the powerplant have a total rated capacity of 118,750 kilowatts. In addition to serving preference customers in eastern Idaho, this plant furnishes power for irrigation water pumping on the North Side Pumping Division, the Michaud Flats Project Pumping Plants, the Milner Low Lift Irrigation District; and supplemental power to preference customers served from the Minidoka system.

In 1963, the Bonneville Power administration took over the marketing of power from the Minidoka and Palisades plants along with the transmission lines and substations.

Pumping plants include Unit A with 240 ft/s designed capacity to irrigate 14,522 acres of Unit A of the North Side Pumping Division, and 177 deep well pumping plants and 13 relifts plants serving 62,274 acres of Unit B. Other pumping plants with their capacities are the First Lift, 1,037 ft/s, Second Lift, 893 ft/s, and Third Lift, 553 ft/s, all which serve the South Side Pumping Division and are operated by the Burley Irrigation District.

Canals of major importance are prominent features of the Minidoka Project. The majority are operated and maintained by the Irrigation Districts. These include:

Minidoka North Side Canal with a designed capacity of 1,700 ft/s which extends from Minidoka Dam to the farm area north of the Snake River in Minidoka County and delivers water to the gravity division.

Minidoka South Side Canal, 1,325 ft/s designed capacity, which extends from the Minidoka Dam to the First Lift Pumping Plant. This canal serves the South Side Pumping Division which includes canals under the Second Lift and Third Lift Pumping Plants, and approximately 5,000 acres of gravity land in Cassia County.

Milner-Gooding Canal, 2,700 ft/s designed capacity, runs from Milner Dam to lands of the North Side Canal Company and the Gooding Division north of the Snake River in Jerome, Lincoln, and Gooding Counties.

Cross Cut Canal runs from the Cross Cut Diversion Dam on the North Fork of the Snake River near Chester, Idaho, to the Teton River, 590 ft/s capacity.

The 240 ft/s Unit A pumping plant, Main Canal, and lateral system as well as the Unit B wells, laterals, and drains are operated and maintained by the A&B Irrigation District, Rupert, Idaho.

Tex Creek - Big game winter range and Cartier Slough - Water fowl area are mitigation areas for the Ririe and Teton Projects. These areas are managed in cooperation with the Idaho Fish and Game Department.

IRRIGATION

Natural flow of the Snake River and some of its tributaries, and water stored in the reservoirs at Jackson Lake, Palisades, Grassy Lake, Island Park, American Falls, and Lake Walcott, are delivered at numerous diversion points to the Fremont-Madison Irrigation District, the Burley Irrigation District, the Minidoka Irrigation District, the American Falls Reservoir District No. 2, the North Side Pumping Division, the Michaud Flats Project, the Michaud Division of the Fort Hall Indian Reservation, and about 50 Warren Act Contractors. The water delivery at the farm varies widely, depending upon the location and type of soil, but for most of the project lands it is about 4 acre-feet of water per acre per year.

The soil of the irrigable areas of the project is sandy loam, clay loam, silt loam, and volcanic ash. The elevation of the project lands varies from 5,000 feet to a low of approximately 3,900 feet.

Approximately 1,188,716 acres of irrigable lands receive a full or a supplemental water supply from project facilities as follows:

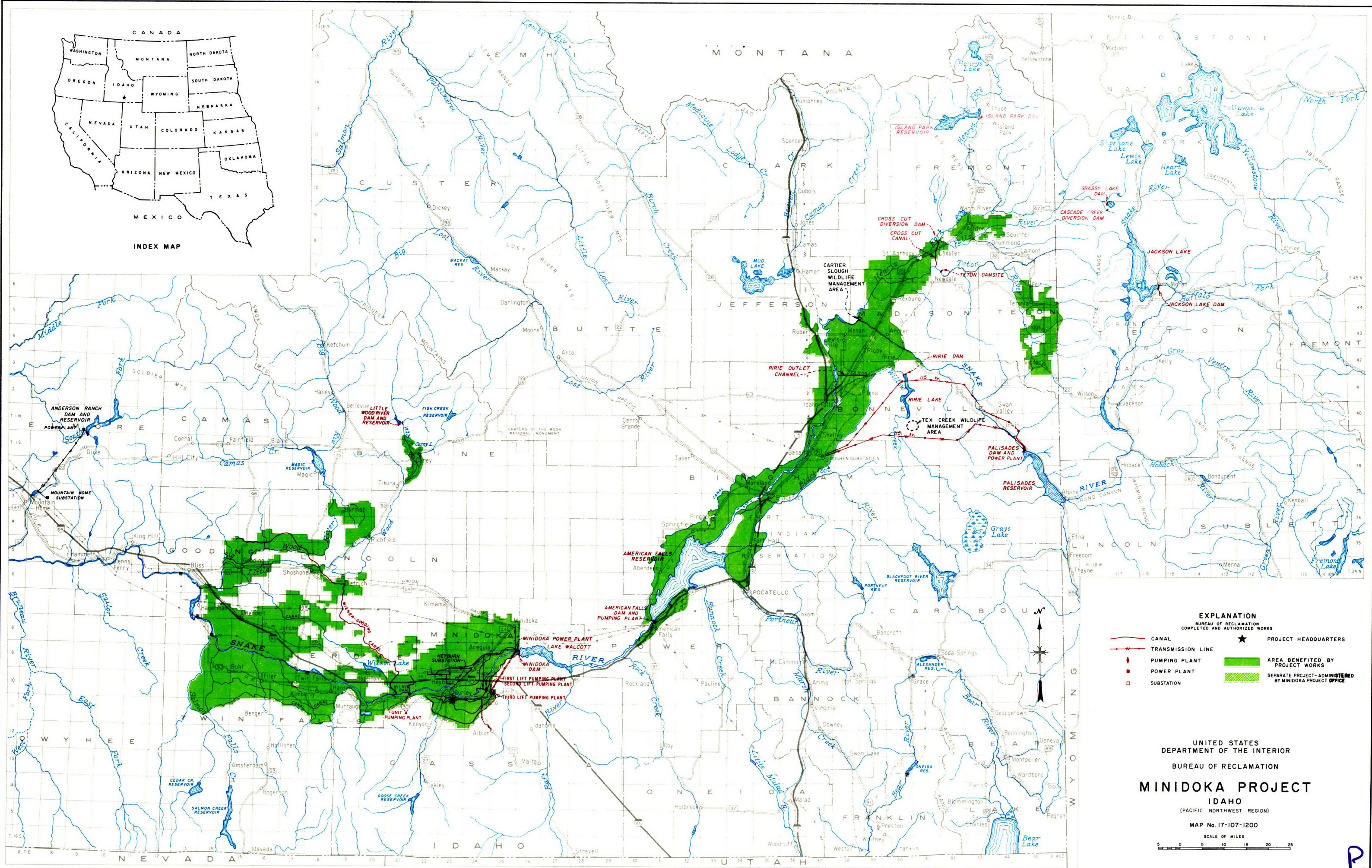
Gravity Division (Minidoka Irrigation District)	72,000
South Side Pumping Division (Burley Irrigation District)	48,000
Gooding Division (American Falls, Reservoir District No. 2)	98,667
Upper Snake River Division (Fremont-Madison Irrigation District)	112,000
North Side Pumping Division (A&B Irrigation District)	76,796
Michaud Division (Fort Hall Indian Reservation)	14,819
Michaud Flats Project (Falls Irrigation District)	11,413
Warren Act Contractors	754,687
Temporary Irrigation Service	334
Total acres receiving full supply or supplemental water	1,188,716

PRINCIPAL PRODUCTS

The principal products of the project are alfalfa, potatoes, small grains, beans, sugar beets, miscellaneous seeds, sheep, and cattle.

CLIMATE

The project has cold winters and hot dry summers, the temperatures ranging from a low of 35 degrees below zero to a high of 106 degrees with an average of 40 degrees. The average irrigation season is about 200 days. The total growing season varies from 3 1/2 to 6 months, depending upon the location within the project. The average annual rainfall ranges from 10.43 inches at Burley to 46.43 inches at Island Park.



- EXPLANATION**
BUREAU OF RECLAMATION
COMPLETED AND AUTHORIZED WORKS
- CANAL
 - TRANSMISSION LINE
 - PUMPING PLANT
 - POWER PLANT
 - SUBSTATION
 - PROJECT HEADQUARTERS
 - AREA BENEFITED BY PROJECT WORKS
 - SEPARATE PROJECT-ADMINISTERED BY MINIDOKA PROJECT OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
MINIDOKA PROJECT
IDAHO
(PACIFIC NORTHWEST REGION)

MAP No. 17-107-1200

SCALE OF MILES
0 5 10 15 20 25

REVISED FEBRUARY 1983