

25-7004

E. NARRATIVE/REMARKS/COMMENTS

SEE ATTACHED MEMORANDUM dtd Nov 10, 2004

ABOVE RESERVOIR (MAP 1)

USGS Gauging station 13057940, Willow Creek below Tex Creek
Near Ririe, measures flow into Ririe Reservoir (SEE Map # 1)

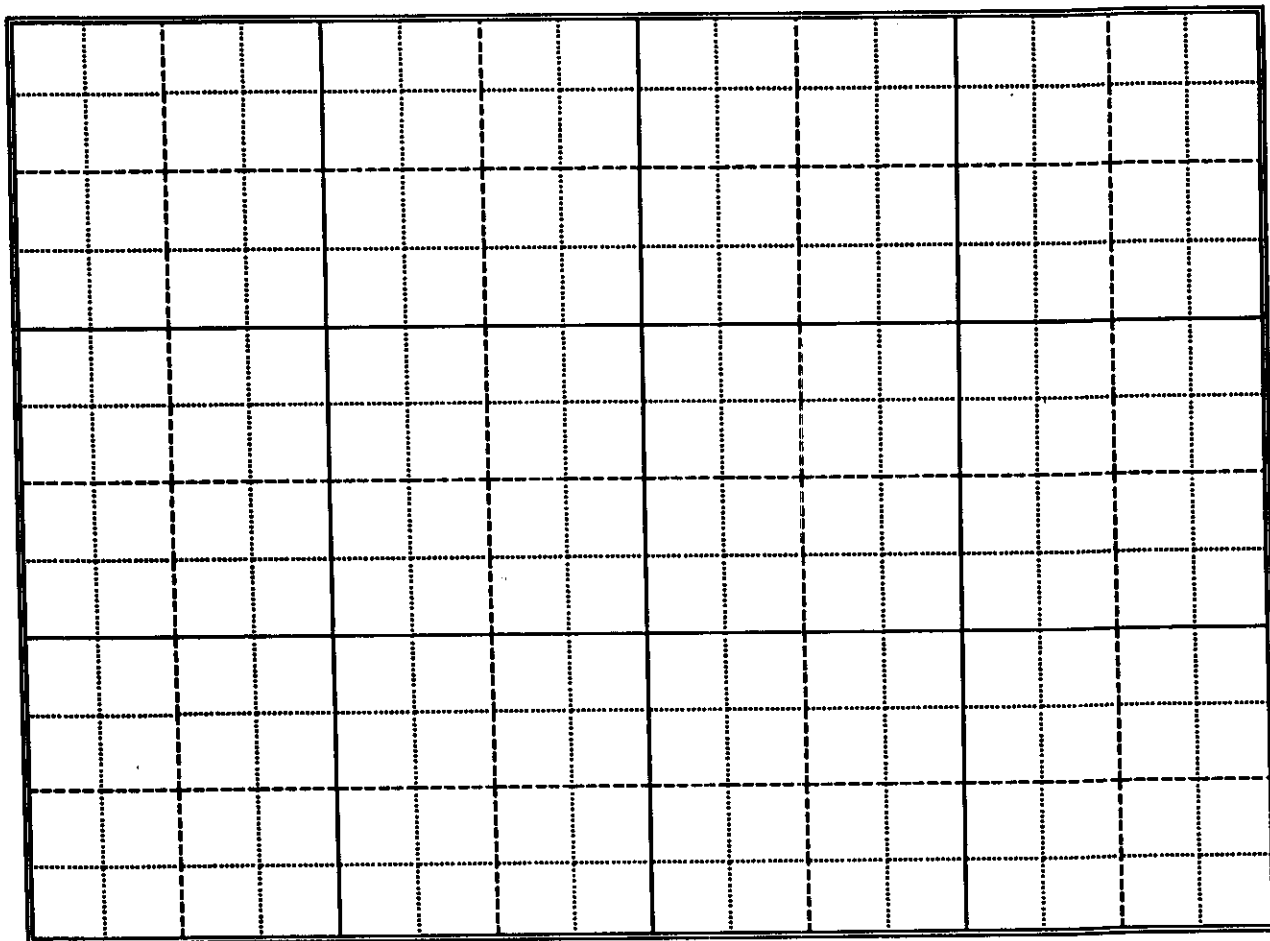
Below Reservoir (MAP 2)

USGS Gauging station 13058000 Willow Creek near Ririe, Id, measures
flow from Ririe Reservoir (SEE MAP # 2)

Have conditions of permit approval been met? ☒ yes ☐ no

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3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe I.D. as applicable.



Scale: 1" =

☒ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

☐ Aerial Photo Attached (required for irrigation of 10+ acres)

☐ Photo of Diversion and System Attached

4. N/A

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A						

2. Measurements: FROM Safety of Dams program Vol = 100500 af

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F. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

FROM Safety of Dams Program (see DATA SHEET 1 of 4)
VOL = 100,500 acre-feet

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

 $V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$ _____

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
IRRIGATION Storage	1/1	12/31		80500af
IRRIGATION from Storage	4/1	10/31		80500af
Wildlife storage	1/1	12/31		10000af
Totals:				90500af

2. Recommended Amendments

____ Change P.D. as reflected above

____ Add P.D. as reflected above

☒ None

____ Change P.U. as reflected above

____ Add P.U. as reflected above

____ Other

I. AUTHENTICATION

Field Examiner's Name

Keith C. Wilson

Date

11/12/2004

25-7004

Reviewer _____

Date _____

SEAL

MEMORANDUM

Date: November 10, 2004
To: Water Right File 25-7004
From: kwilson
Re: Field Report Narrative

Ririe Dam and Lake Environmental Impact Statement dated October 6, 1972, page 46, provides a 10,000 acre-feet pool for fish and wildlife. Construction of Ririe Dam and Reservoir was authorized by the Flood Control Act of October 23, 1962, P.L. 87-874 (76 Stat. 1193). House Document No. 562 served as the basis for the authorization. Formal transfer of the project from the Corps of Engineers to the Bureau of Reclamation was consummated by a memorandum of agreement effective October 14, 1976.

The 1990 Fort Hall Indian Water Rights Agreement between the Shoshone-Bannock Tribes of the Fort Hall Indian Reservation, the United States, and certain Idaho water users settled the tribes rights reserved under the Winters Doctrine within the Snake River Basin. The Congress approved the Agreement in the Fort Hall Indian Water Rights Act of 1990, P.L. 101-602, which directed the Secretary of Interior to contract 80,500 acre-feet of storage space in Ririe Reservoir for protection of existing users. Pursuant to this legislation, the Bureau of Reclamation contracted with Mitigation, Inc. to provide storage space to the water users adversely impacted by the 1990 Fort Hall Indian Water Rights Agreement, Contract No. 4-07-10-W0999, dated March 31, 1994.

The Fish and Wildlife Storage use was identified in the Environmental Impact Statement in 1973 and the Reservoir has historically been operated with 10,000 acre-feet of storage up to elevation 5,023 for fish and wildlife purposes in addition to 80,500 acre-feet of storage for irrigation.

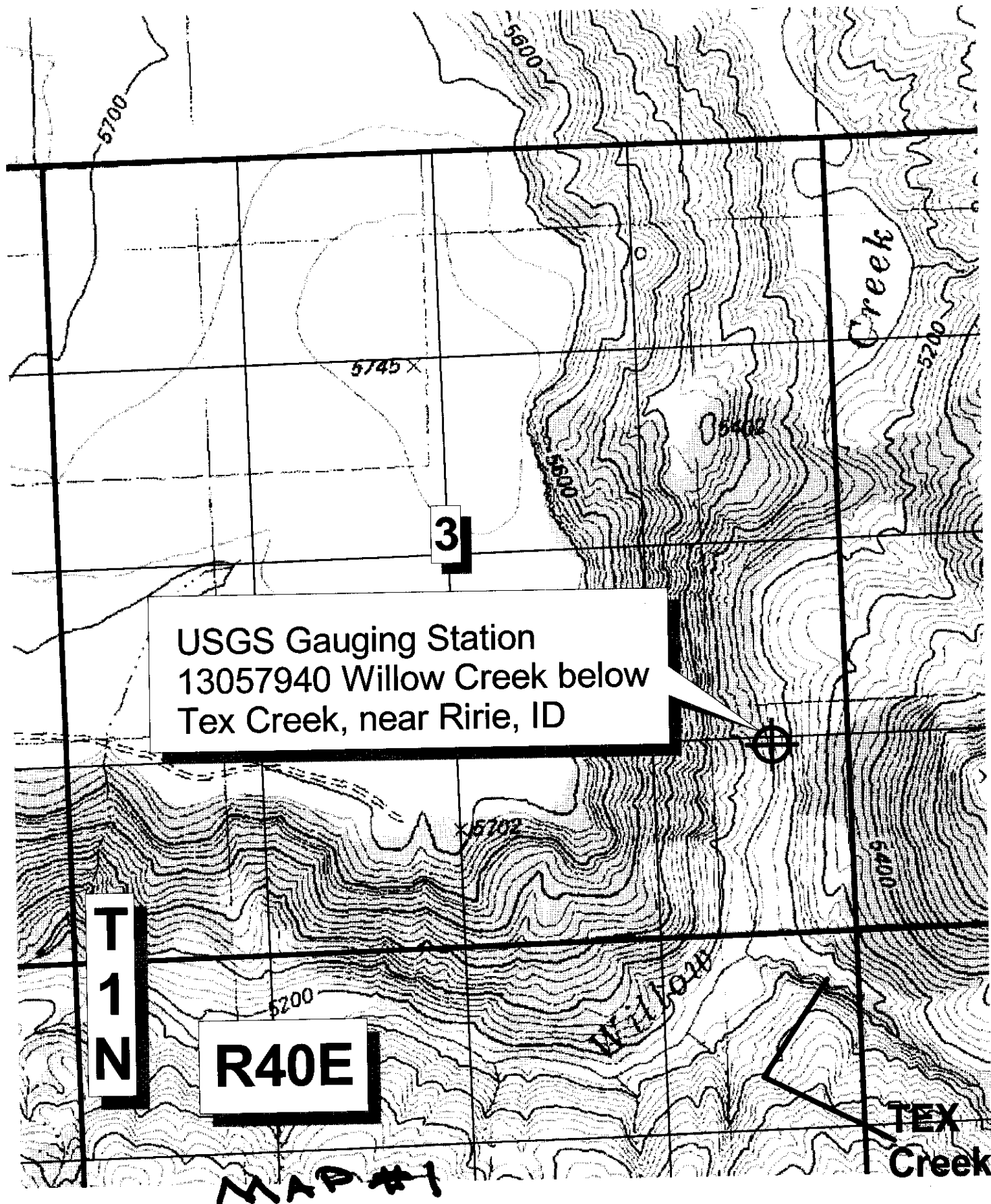
Place of use lands are identified under water rights listed in Storage Contract 4-07-10-W0999 dated March 31, 1994, between the United States and Mitigation, Inc.

The property at the point of diversion is owned by the United States, The Department of the Interior, Bureau of Reclamation. Section 5 Act of November 16, 1990, P.L. 101-602, 104 Stat. 3059, also known as the Fort Hall Indian Water rights Act of 1990; the United States has entered into Contract No. 4-07-10-W0999 to provide the contractor storage space in Ririe Reservoir.

The original application for permit identified 90,000 acre-feet total quantity to be appropriated...except in extraordinary years when the reservoir may capture additional water during the irrigation season... The applicant stated that the total beneficially used storage is 90,500.0 acre-feet, and is consistent with the original permit application for 90,000 acre-feet and the statement ...except in extra ordinary years when the reservoir may capture additional water during the irrigation season...

The Safety of Dams Program Summary Sheet, for the Idaho Department of Water Resources, lists the storage capacity of Ririe Reservoir as 100,500 ac-ft.

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USGS Gauging Station
13057940 Willow Creek below
Tex Creek, near Ririe, ID

T
1
N

R40E

MAP #1

TEX
Creek

Up Stream Gauging Station
0.3 mi below Tex Creek

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USGS Gauging Station
13058000 Willow Creek near Ririe, ID

POINT OF DIVERSION

T
3
N

R40E

MAP # 2

Down Stream Gauging Station
&
Point of Diversion

25-7004

DAM SUMMARY SHEET

November 22, 1996

RIRIE

25 - 7004

INVENTORY _____ AF
BASIN _____ 25
DAM NUMBER _____ 7004
FED ID NUMBER _____ ID00344
DAM NAME _____ RIRIE
COUNTY _____ BONNEVILLE
STREAM _____ WILLOW CREEK
REGION _____ E
PURPOSE _____ IF
RISK CATEGORY _____ 1
SIZE CATEGORY _____ 1
Q-Q SECTION _____ NWNW
SECTION _____ 22
TOWNSHIP _____ 03N
RANGE _____ 40E
LATITUDE DEC _____ 43.5816
LONGITUDE DEC _____ 111.7419
DAM TYPE _____ ROCK
STORAGE CAPACITY _____ 100,500.00 ACFT
HEIGHT _____ 169.00 FT
DRAINAGE AREA _____ 620.00 SQMI
RESERVOIR AREA _____ 1,560.00 AC
YEAR COMPLETED _____ 1976
CREST ELEVATION _____ 5,128.00 MSL
CREST LENGTH _____ 1,070.00 FT
SPILLWAY TYPE _____ CNCHAN
SPILLWAY DEPTH _____ 35.00 FT
SPILLWAY CAPACITY _____ 48,762.00 CFS
OUTLET TYPE _____ RNFCNP
OUTLET SIZE _____ 0 IN
OUTLET CAPACITY _____ 4,250.00 CFS
IDF _____ PMF
IDF MAGNITUDE _____ 47,000.00 CFS
RELEASE CAPACITY _____ 53,012.00 CFS

CONDITION _____ EX
MAINTENANCE _____ ROUTINE
INSPECTION DATE _____ 0996 MO/YR
CERTIFICATE EXP DATE _____ 9999 MO/YR
LAST RISK EVALUATION _____ 1179 MO/YR
SURVEY DATE _____ MO/DD/YR
CALL UP DATE _____ MO/DD/YR
CERT ISSUE DATE _____ MO/DD/YR
INSPECTION INTERVAL _____ 2YR
PHASE 1 INSP DATE _____
OPERATION PLAN _____ A
SEISMIC ANALYSIS _____ Y
RESTRICTED _____
JOINT INSPECTION _____ USBR
QUAD NUMBER _____ X95
QUAD NAME _____ POPLAR

DAM OWNER _____ U S BUREAU OF RECLAMATION
ADDRESS - 1 _____ PN REGIONAL OFFICE
ADDRESS - 2 _____ 1150 N CURTIS RD
CITY _____ BOISE
STATE _____ ID
ZIP CODE _____ 83706
ZIP SUFFIX _____ 1234
PHONE _____ 3785330
AREA CODE _____ 208

GENERAL REMARKS : PART OF DAM IN SEC. 15,16 & 21, T3N-R40E. NO CHANGED FROM
25-XX02. PART OF RESERVOIR SHOWN ON QUAD MAPS X94, Y44 & Y45.

TECHNICAL REMARKS : NORMAL POOL ELEV= 5119.0'. SPILLWAY & RELEASE CAP ARE AT ELEV
5119.0'. SPILLWAY IS 2-40.5 X 27.3' RADIAL GATES W/ CREST ELEV = 5093'.
OUTLET HAS 2-3.75' X 7' REGULATING GATES ON INTAKE. CROSS
SECTION OF PIPE VARIES . PMF CAN BE PASSED AT ELEV 5118.6'.

RESTRICTIONS :

ALTERNATE CONTACTS : SEE SOP ON TOP OF MAIN FILE CABINET FOR ALTERNATE CONTACTS.

DATA SHEET 1 of 4
25-7004

WILLOW CREEK BASIN

13058000 WILLOW CREEK NEAR RIRIE, ID

LOCATION.--Lat 43°35'00", long 111°44'45", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.16, T.3 N., R.40 E., Bonneville County, Poplar quad., Hydrologic Unit 17040205, on right bank 0.25 mi downstream from Ririe Dam, 3.4 mi southeast of Ririe, and at mile 20.2.

DRAINAGE AREA.--627 mi².

PERIOD OF RECORD.--April 1903 to September 1904, October 1916 to September 1925, May to August 1928, October 1962 to September 1979, October 1985 to current year. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Elevation of gage is 4,950 ft above NGVD of 1929, from topographic map. Prior to September 1904, nonrecording gage at site about 3.25 mi downstream at different datum. October 1916 to June 1921, nonrecording gage, June 1921 to August 1928, water-stage recorder at present site. October 1962 to September 1979, at site 1.75 mi downstream at different datum. Records comparable.

REMARKS.--No estimated daily discharges. Records good. Diversions above station for irrigation of about 7,300 acres, of which about 100 acres are irrigated by withdrawals from ground water (1966 determination). Since May 1924, water has been diverted from Grays Lake some years, about 40 mi upstream, into Meadow Creek basin and thence into Blackfoot Reservoir. Flow regulated by Ririe Reservoir beginning December 1975, with some storage beginning July 1974. During winter months when gates at Ririe Dam are closed, seepage may pass the gage, but sinks into the gravels; consequently this flow is not published.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed (1903-74), 4,200 ft³/s May 15, 1917, gage height, 16.30 ft; minimum daily, 1.2 ft³/s Aug. 12, 1974.

Maximum discharge since regulation began in 1975, 2,320 ft³/s May 20, 1975, gage height, 14.07 ft; no flow for long periods most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since 1899, 5,080 ft³/s Feb. 11, 1962, from estimate based on field survey, gage height, 15.0 ft from floodmarks; stream reported practically dry during summers of 1899 and 1934.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 439 ft³/s Aug. 26; no flow for long periods.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	106	24	25	424
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	106	24	25	327
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	106	24	25	225
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	106	24	25	166
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	108	24	26	113
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	109	24	26	112
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	103	109	24	26	111
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	103	109	24	26	64
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	103	110	24	26	31
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	103	89	24	26	31
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	103	43	23	27	31
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	33	23	27	32
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	33	23	28	32
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	33	23	29	32
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	33	23	30	31
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	33	23	30	32
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	33	23	30	31
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	27	23	292	31
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	24	23	435	31
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	24	23	429	31
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	24	23	426	32
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	24	23	423	32
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	105	24	23	418	32
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104	24	23	416	32
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	105	24	24	434	32
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	105	24	24	439	10
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	105	24	24	436	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	106	24	24	434	0.00
29	0.00	0.00	0.00	0.00	---	0.00	105	106	24	24	433	0.00
30	0.00	0.00	0.00	0.00	---	0.00	105	106	24	24	430	0.00
31	0.00	---	0.00	0.00	---	0.00	---	106	---	24	427	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	278.00	3231	1614	730	6329	2088.00
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	9.27	104	53.8	23.5	204	69.6
MAX	0.00	0.00	0.00	0.00	0.00	0.00	105	106	110	24	439	424
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	103	24	23	25	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	551	6410	3200	1450	12550	4140

Flow Below Reservoir

DATA SHEET 3 of 4
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WILLOW CREEK BASIN
13058000 WILLOW CREEK NEAR RIRIE, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1974, BY WATER YEAR (WY) (UNREGULATED)											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	SEP
MEAN	50.0	53.6	49.0	58.5	64.3	102	401	851	358	111	42.3
MAX	92.6	81.4	91.6	160	155	274	750	2133	1325	313	73.1
(WY)	1973	1973	1965	1969	1963	1972	1919	1917	1917	1917	1917
MIN	20.5	30.4	25.3	25.4	35.0	35.5	124	234	85.9	35.3	16.6
(WY)	1964	1967	1970	1963	1904	1964	1970	1966	1924	1919	1924

SUMMARY STATISTICS		a WATER YEARS 1903 - 1974	
ANNUAL MEAN		176	
HIGHEST ANNUAL MEAN		280	1971
LOWEST ANNUAL MEAN		88.0	1963
HIGHEST DAILY MEAN		4200	May 15 1977
LOWEST DAILY MEAN		1.2	Aug 12 1974
ANNUAL SEVEN-DAY MINIMUM		4.3	Aug 7 1974
ANNUAL RUNOFF (AC-FT)		127700	
10 PERCENT EXCEEDS		546	
50 PERCENT EXCEEDS		66	
90 PERCENT EXCEEDS		32	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2003, BY WATER YEAR (WY) (REGULATED, UNADJUSTED)											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	SEP
MEAN	182	58.8	12.2	5.33	10.9	37.6	78.1	305	191	83.4	247
MAX	443	223	116	51.9	67.5	360	434	1360	824	340	610
(WY)	1998	1999	1996	1975	1978	1986	1976	1997	1975	1976	1993
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	29.5	30.4	23.5	17.7
(WY)	2002	1992	1986	1986	1987	1987	1988	1977	2001	2003	1977

SUMMARY STATISTICS		FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		b WATER YEARS 1975 - 2003	
ANNUAL TOTAL		11817.00		14270.00		113	
ANNUAL MEAN		32.4		39.1		295	1997
HIGHEST ANNUAL MEAN						32.4	2002
LOWEST ANNUAL MEAN						2290	May 20 1975
HIGHEST DAILY MEAN		455	Aug 29	439	Aug 26	0.00	Nov 22 1985
LOWEST DAILY MEAN		0.00	Jan 1	0.00	Oct 1	0.00	Nov 22 1985
ANNUAL SEVEN-DAY MINIMUM		0.00	Jan 1	0.00	Oct 1	0.00	
ANNUAL RUNOFF (AC-FT)		23440		28300		82170	
10 PERCENT EXCEEDS		91		105		388	
50 PERCENT EXCEEDS		0.00		0.00		34	
90 PERCENT EXCEEDS		0.00		0.00		0.00	

a Unregulated
b Regulated

Flow Below Reservoir
DATA SHEET 4 of 4
25-7004

WILLOW CREEK BASIN

13057940 WILLOW CREEK BELOW TEX CREEK, NEAR RIRIE, ID

LOCATION.--Lat 43°26'30", long 111°43'42", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.3, T.1 N., R.40 E., Bonneville County, Lone Pine Ridge quad., Hydrologic Unit 17040205, on right bank, 0.3 mi below Tex Creek and 13.2 mi southeast of Ririe.

DRAINAGE AREA.--568 mi².

PERIOD OF RECORD.--August 1977 to September 1979, October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,200 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 7,300 acres, of which 100 acres are irrigated by withdrawals from ground water (1966 determination). Since May 1924, water has been diverted from Grays Lake into Meadow Creek basin and thence into Blackfoot Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,420 ft³/s May 7, 1997, gage height, 6.73 ft; minimum, 2.1 ft³/s Aug. 23, 1992, gage height, 1.62 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 271 ft³/s Apr. 15, gage height, 3.59 ft; minimum daily, 3.4 ft³/s July 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	e18	e22	e16	e20	e18	92	124	54	13	3.6	6.9
2	18	e20	e20	e18	e20	e16	109	114	52	11	3.7	6.7
3	18	e20	e20	20	e18	e20	99	112	46	10	3.9	6.4
4	19	e22	20	21	e18	e18	79	149	42	10	6.4	5.4
5	18	e24	21	21	e18	e22	69	160	41	9.7	7.1	6.0
6	18	e24	20	e16	e16	26	65	151	39	9.0	5.4	6.7
7	17	e24	e18	e18	e16	25	61	133	37	8.1	6.6	7.6
8	17	24	e20	e16	e18	25	57	121	36	7.4	5.9	8.0
9	16	26	e20	e14	e20	31	59	114	35	6.8	5.5	9.2
10	16	26	e20	e16	e22	31	79	129	31	6.7	5.3	10
11	16	23	e20	19	e26	39	110	130	28	6.6	4.1	10
12	16	23	21	19	e26	67	141	122	27	6.6	3.7	9.8
13	16	22	e20	20	e28	107	171	126	24	5.9	3.8	8.9
14	16	23	21	e20	e26	148	224	119	24	5.6	3.7	8.4
15	17	e20	22	e16	e26	113	256	110	24	5.6	3.9	7.9
16	17	e16	e20	e18	e24	116	198	107	24	4.8	4.6	7.4
17	18	e18	e20	e16	e22	98	148	105	21	4.4	4.5	7.5
18	18	e20	e16	e18	e20	95	135	103	21	4.4	5.7	8.4
19	18	e18	e18	e18	e18	77	131	100	19	4.3	6.0	8.9
20	19	e20	e20	e20	e20	75	119	96	17	4.2	5.7	10
21	19	e20	e18	20	e22	71	120	90	18	4.1	5.0	10
22	18	e20	e16	21	e16	76	132	88	20	4.5	7.2	10
23	19	e20	e14	e20	e14	83	141	84	21	3.8	6.7	8.9
24	20	e20	e16	e20	e12	95	144	81	22	3.5	6.5	8.0
25	21	e16	e18	e18	e14	96	136	80	30	3.4	7.2	7.9
26	22	e18	e20	e20	e16	86	143	77	30	4.8	6.3	7.5
27	22	e20	e20	e18	e16	83	149	71	24	5.3	6.1	7.7
28	20	e22	e20	e16	e18	77	131	65	21	6.3	5.6	7.7
29	21	e24	e20	e18	---	72	133	60	18	7.5	5.8	8.0
30	21	e24	e18	e20	---	63	132	58	15	5.1	6.3	8.2
31	e20	---	e16	e22	---	66	---	54	---	4.1	7.0	---
TOTAL	568	635	595	573	550	2035	3763	3233	861	196.5	168.8	244.0
MEAN	18.3	21.2	19.2	18.5	19.6	65.6	125	104	28.7	6.34	5.45	8.13
MAX	22	26	22	22	28	148	256	160	54	13	7.2	10
MIN	16	16	14	14	12	16	57	54	15	3.4	3.6	5.4
AC-FT	1130	1260	1180	1140	1090	4040	7460	6410	1710	390	335	484

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2003, BY WATER YEAR (WY)

	MEAN	37.1	41.5	40.0	40.0	42.6	87.1	322	416	164	57.4	32.8	29.0
MAX	73.6	80.0	67.7	101	65.1	264	867	1427	409	148	93.1	72.7	
(WY)	1987	1999	1999	1997	1986	1986	1997	1999	1999	1997	1997	1997	
MIN	10.5	16.7	18.7	18.5	18.7	26.1	63.5	25.3	15.2	6.34	3.16	7.38	
(WY)	1993	1993	2002	2003	2002	2002	1992	1992	1992	2003	1992	1992	

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1977 - 2003
ANNUAL TOTAL	14546.3	13422.3	109
ANNUAL MEAN	39.9	36.8	287
HIGHEST ANNUAL MEAN			27.4
LOWEST ANNUAL MEAN			2210
HIGHEST DAILY MEAN	261	256	2.4
LOWEST DAILY MEAN	6.6	3.4	2.4
ANNUAL SEVEN-DAY MINIMUM	7.4	4.0	2.7
ANNUAL RUNOFF (AC-FT)	28850	26620	79240
10 PERCENT EXCEEDS	115	111	259
50 PERCENT EXCEEDS	20	20	47
90 PERCENT EXCEEDS	9.4	5.9	15

e Estimated

Flow ABOVE Reservoir

DATA SHEET 2 of 4
25-7004