

BRIDGE CREEK NR. SIBBETT FIELD
Annual Water-Use Records
1996-1997 WATER-YEAR

RECEIVED
JAN 12 2005
Department of Water Resources
Eastern Region

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
REGION 1
SITE DESCRIPTION

1. **REFUGE/HATCHERY NAME:**
Gray Lake National Wildlife Refuge
2. **SITE NAME:**
Bridge Creek Channel at Sibbett Field
3. **SITE NUMBER:**
461203
4. **PURPOSE OF GAGE:**
To monitor water-use for Water Right No. 25-4032.
5. **DESCRIPTIVE LOCATION OF SITE:**
Latitude 43° 02' 43", Longitude 111° 25' 12" (approximately); approximately 1 mile north of headquarters 500 feet downstream from Grays Lake Road.
6. **SUMMARY OF GAGE SYSTEM:**
None - Instantaneous measurements only.
7. **DESCRIPTION OF RECORDING SYSTEM:**
None
8. **REFERENCE GAGE:**
None
9. **REFERENCE MARKS:**
None
10. **DATA COLLECTION:**
Instantaneous discharge measurements are taken bi-weekly by float method due to extremely low velocities.
Also possibly with March McBirney.
11. **ESTABLISHMENT:**
Measuring reach established by Regional and Refuge Staff on July 19, 1995.
12. **HISTORY:**
July 19, 1995 - Monitoring site selected and established for instantaneous discharge measurements.
13. **FUTURE WORK NEEDS (CLEANING, LEVELS, ETC.):**
Need to keep measuring reach free of grass and weeds.
14. **DESCRIPTION OF CHANNEL:**
The Channel meanders and is lined with heavy grass growth on both banks. The bed is composed of sand and silt.
15. **DESCRIPTION OF CONTROL (FLUME, WEIR, ETC.)**
None
16. **WINTER FLOW:**
Subject to ice cover.

17. LOCATION AND TYPE OF DIVERSIONS:

Stop-log structure located approximately 50 feet down stream, conveys water to the north and south portions of the place-of-use.

18. LOCATION AND TYPES OF REGULATION:

None

19. LAND STATUS:

Site is located on Fish and Wildlife Service property.

20. COOPERATING AGENCIES:

None

21. USGS TOPO MAP:

Bear Island, Idaho

PREPARED BY:

David Langman

DATE:

August 11, 1995

**U.S. Department of the Interior
Fish and Wildlife Service
(Discharge Measurement Summary Sheet)**

Grays Lake NWR -- W.Y. 1996

Site Name: Bridge Creek at Sibbett Field

Station No. 461203

Meas. No.	Date	Made By	Width (ft)	Area (ft ²)	Mean Vel. (ft/sec)	Gage Height (ft.)	Discharge (cfs)	Rating No.		Method	Remarks
								Shift	% Diff		
9	4/23/1996	Stoor Fisher	26.4	29.1	0.64	-----	18.7	-----	-----	Wading	Bridge Creek flooding slightly out of banks. Diversion culvert full. 30 % going to N. Channel. Meas. rated good (G).
10	5/9/1996	Fisher	26.5	29.6	0.29	-----	8.61	-----	-----	Wading	Flooding slightly. Diversion open but restricting flow. 50% to N. Channel. Meas. rated good (G).
11	5/29/1996	Nuffer Stoor	18.0	26.2	0.37	-----	9.63	-----	-----	Wading	All Bridge Creek water. 40% to Place of Use (irr) 60% in channel for Wildlife use. Meas. rated good (G).
12	6/24/1996	Nuffer Stoor	8.00	6.90	0.14	-----	1.00	-----	-----	Wading	Small amount of vegetation in channel. Meas. rated good (G).
13	7/17/1996	Nuffer Stoor	9.00	0.75	1.05	-----	0.79	-----	-----	Wading	Co-Mingled water; 50% Bridge Creek and 50% Eagle Creek. Ostler passing Eagle Creek water upstream. Meas. rated good (G).
14	8/26/1996	Nuffer Newbold	8.00	5.55	0.05	-----	0.25	-----	-----	Wading	Small amount of vegetation in channel. Meas. rated good (G).

Remarks: Seasonal water diversion to place of use began on 4/15 and was shut-off on 8/26/96. Sixt measurements of flow were obtained by the "Current Meter" method.

U.S. FISH AND WILDLIFE SERVICE - DIVISION OF ENGINEERING
461203 Bridge Creek Channel at Sibbett Field

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1995 TO SEP 1996

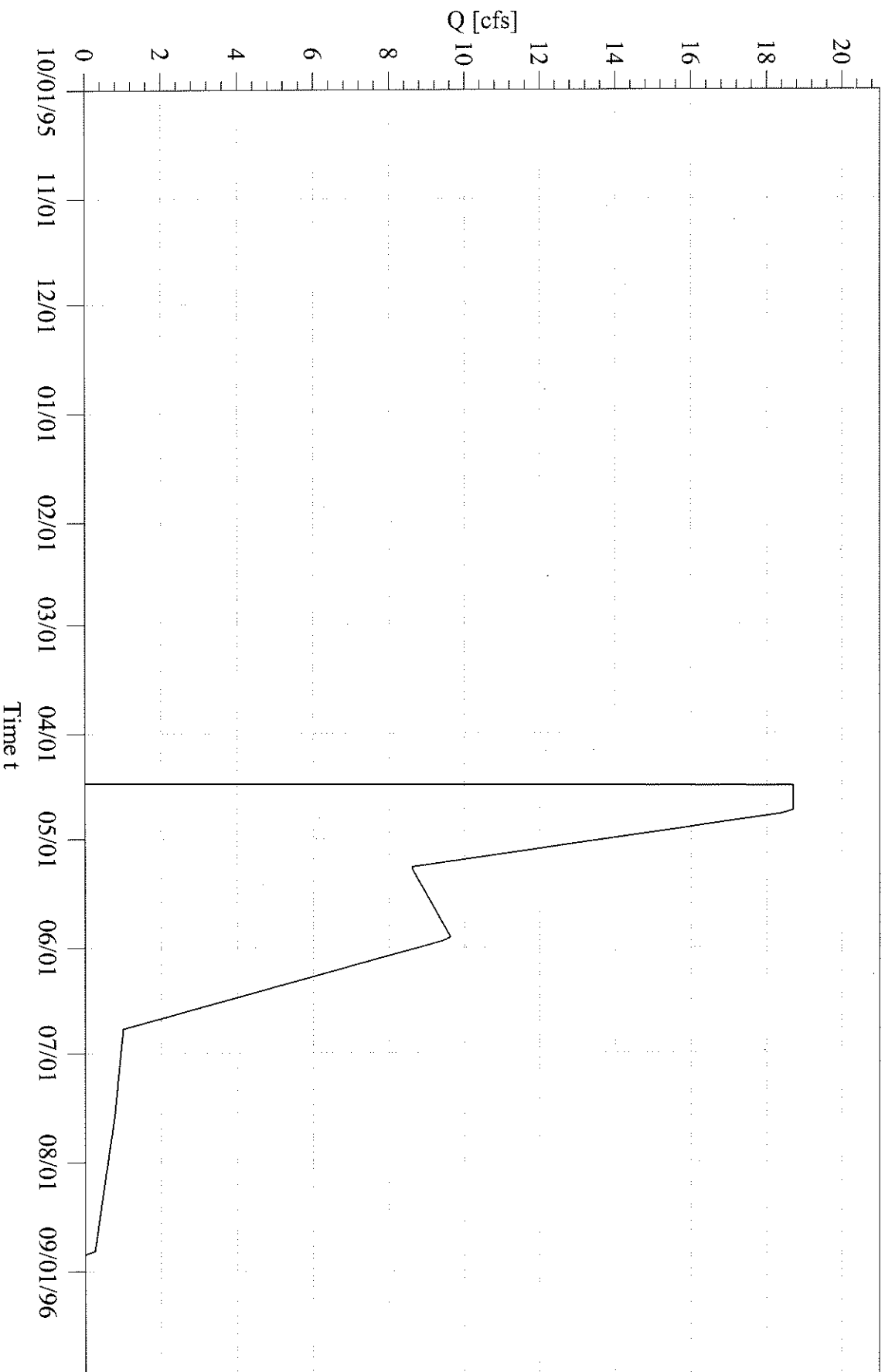
Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	14	8.6	.94	.59	0
2	0	0	0	0	0	0	0	13	8.3	.93	.57	0
3	0	0	0	0	0	0	0	12	8.0	.92	.56	0
4	0	0	0	0	0	0	0	12	7.6	.91	.55	0
5	0	0	0	0	0	0	0	11	7.3	.90	.53	0
6	0	0	0	0	0	0	0	11	7.0	.89	.52	0
7	0	0	0	0	0	0	0	9.9	6.6	.88	.51	0
8	0	0	0	0	0	0	0	9.2	6.3	.87	.49	0
9	0	0	0	0	0	0	0	*8.6	6.0	.86	.48	0
10	0	0	0	0	0	0	0	8.7	5.7	.85	.47	0
11	0	0	0	0	0	0	0	8.7	5.3	.84	.45	0
12	0	0	0	0	0	0	0	8.8	5.0	.84	.44	0
13	0	0	0	0	0	0	0	8.8	4.7	.83	.43	0
14	0	0	0	0	0	0	0	8.9	4.3	.82	.41	0
15	0	0	0	0	0	0	0	8.9	4.0	.81	.40	0
16	0	0	0	0	0	0	0	19	3.7	.80	.39	0
17	0	0	0	0	0	0	0	19	3.3	*.79	.37	0
18	0	0	0	0	0	0	0	19	3.0	.78	.36	0
19	0	0	0	0	0	0	0	19	2.7	.76	.34	0
20	0	0	0	0	0	0	0	19	2.3	.75	.33	0
21	0	0	0	0	0	0	0	19	2.0	.74	.32	0
22	0	0	0	0	0	0	0	19	1.7	.72	.30	0
23	0	0	0	0	0	0	0	*19	1.3	.71	.29	0
24	0	0	0	0	0	0	0	18	1.0	.70	.28	0
25	0	0	0	0	0	0	0	17	.99	.68	.26	0
26	0	0	0	0	0	0	0	17	.98	.67	*.25	0
27	0	0	0	0	0	0	0	16	.97	.65	.24	0
28	0	0	0	0	0	0	0	16	.96	.64	.23	0
29	0	0	0	0	0	0	0	*9.6	.95	.63	.22	0
30	0	0	0	0	0	0	0	14	.95	.61	.21	0
31	0	0	0	0	0	0	0	9.0	.90	.60	.20	0
TOTAL	0	0	0	0	0	0	0	265	302.0	121.50	24.32	10.89
MEAN	0	0	0	0	0	0	0	8.83	9.74	4.05	.78	.35
MAX	0	0	0	0	0	0	0	19	14	8.6	.94	.59
MIN	0	0	0	0	0	0	0	0	.95	.60	.20	.00
AC-FT	0	0	0	0	0	0	0	526	599	241	48	22
CAL YEAR 1995 TOTAL*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WTR YEAR 1996 TOTAL	723.71	723.71	723.71	723.71	723.71	723.71	723.71	723.71	723.71	723.71	723.71	723.71

* Measured values, all others interpolated.

BRIDGE CREEK CHANNEL AT SIBBETT FIELD

Station No. 461203

Water Year 1996



Process date 27.12.2004 08:19

WATER MONITORING SITE ANALYSIS - WY 1996**SITE NUMBER:** 461203**SITE NAME:** Bridge Creek at Sibbett Field, ID**FACILITY:** Grays Lake NWR**EQUIPMENT:**

Instantaneous measurements made with Marsh McBirney flowmeter.

GAGE-HEIGHT RECORD: (Raw)**COMPLETENESS OF RECORD**

Not a continuously recorded station. Six instantaneous discharge measurements were made during the water year. Daily flow values were interpolated between measurement points.

DATA STORAGE:

Discharge measurements were made approximately monthly while water was being diverted from Bridge Creek. Measurements were recorded on discharge measurement note forms and returned to the Water Resources Branch. Measurements were entered in the WISKI database on 11/11/04 in the BrdgCrk.1.O time series.

GAGE-HEIGHT RECORD: (Edited)

Measurements were begin on 4/23/96 and end on 8/26/96. Assumed flow = 18.70 cfs after irrigation starts. Assume irrigation stopped on 8/27/96. All measurements were entered with times of 12:00 am. No other editing of discharge measurements were performed prior to entering data into WISKI. Interpolations were made between raw data points by the WISKI program itself. Gaps were inserted between measurements separated by more than 40 days. Interpolated values are stored within the time series "BrdgCrk.Q.1440.E"

GAUGE AND TIME CORRECTIONS:

None

CONTROL:

Unknown

RATING/CONTENTS TABLE:

No rating curve exists for this site.

REMARKS:

Water diversions began on 4/15/96 and ended on 8/26/96. Six instantaneous discharge measurements were made during the irrigation season (No. 9-14). All were rated good in the field. The record is rated poor due to the limited number of measurements.

WORKED BY: Fred Wurster**DATE:** November 2004

U.S. Department of the Interior
Fish and Wildlife Service
Discharge Measurement Summary Sheet

Grays Lake NWR - W.Y. 1997

Site Name: Bridge Creek at Sidden Field

Station No. 461203

Meas. No.	Date	Meas. By	Width (ft)	Area (sq ft)	Mean Vel (ft/sec)	Stage Height (ft)	Discharge (cfs)	Rating No.		Method	Remarks
								SNR	% Off		
15	05/28/97	Nutter Fisher	20.0	26.8	0.47		12.5			Wading	95% Bridge and 5% Eagle. First meas. of the year. Rated good.
16	06/25/97	Fisher	7.50	5.50	0.02		0.13			Wading	Ostler stopped Eagle Creek flow. Meas. not rated.
17	07/14/97	Heinz Fisher	9.00	8.80	0.16		1.37			Wading	100% Bridge Creek. Meas. rated fair.
18	07/30/97	Heinz Fisher	8.00	6.20	0.08		0.52			Wading	100% Bridge Creek. Meas. rated good.

Remarks: Seasonal water diversion to place of use began on 4/25 and was shut-off on 11/15/97.
Four measurements of flow were obtained by the "Current Meter" method.

461203

Bridge Creek Channel at Sibbett Field, Id

DISCHARGE (CFS), WATER YEAR 1997

DAILY MEAN VALUES

	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	13	11	0.51	0.5	0.35
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	10	0.58	0.5	0.35
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	10	0.66	0.49	0.34
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	9.6	0.73	0.49	0.34
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	9.1	0.8	0.48	0.34
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	8.7	0.88	0.48	0.33
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	8.2	0.95	0.47	0.33
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	7.8	1	0.47	0.32
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	7.3	1.1	0.46	0.32
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	6.9	1.2	0.46	0.31
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	6.4	1.2	0.45	0.31
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	6	1.3	0.45	0.3
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	5.5	1.4	0.44	0.3
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	5.1	*1.5	0.44	0.29
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	4.6	0.51	0.43	0.29
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	4.2	0.51	0.43	0.28
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	3.7	0.51	0.43	0.28
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	3.3	0.51	0.42	0.27
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	2.8	0.51	0.42	0.27
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	2.4	0.51	0.41	0.26
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	1.9	0.51	0.41	0.26
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	1.5	0.51	0.4	0.25
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	1	0.51	0.4	0.25
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	0.58	0.51	0.39	0.25
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	*0.13	0.51	0.39	0.24
26	0.00	0.00	0.00	0.00	0.00	0.00	13	13	0.14	0.51	0.38	0.24
27	0.00	0.00	0.00	0.00	0.00	0.00	13	13	0.21	0.51	0.38	0.23
28	0.00	0.00	0.00	0.00	0.00	0.00	13	*13	0.29	0.51	0.37	0.23
29	0.00	0.00	0.00	0.00	---	0.00	13	12	0.36	0.51	0.37	0.22
30	0.00	0.00	0.00	0.00	---	0.00	13	12	0.44	*0.51	0.36	0.22
31	0.00	---	0.00	0.00	---	0.00	---	11	---	0.51	0.36	---

Total 0 0 0 0 0 0 0 65 399 139.15 22.48 13.33 8.57
 Mean 0.000 0.000 0.000 0.000 0.000 0.000 0.000 2.1 12.4 4.7 0.73 0.43 0.29
 Max 0.00 0.00 0.00 0.00 0.00 0.00 0.00 13 13 11 1.5 0.5 0.35
 Min 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 11 0.13 0.51 0.36 0.22
 AC-Ft 0.00 0.00 0.00 0.00 0.00 0.00 0.00 129 791 276 45 26 17

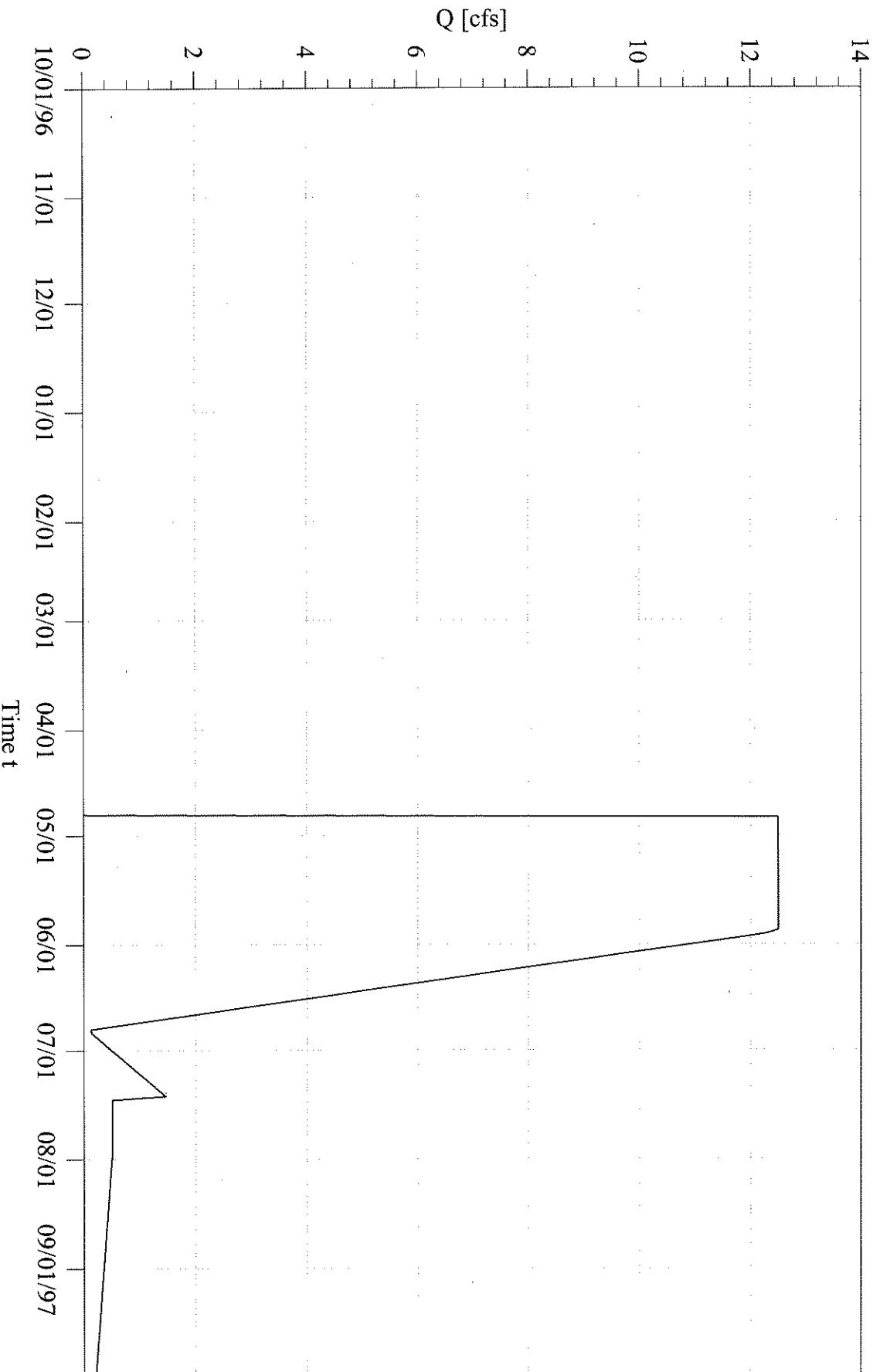
WTR YEAR 1997 TOTAL 647.53 MEAN 1.8 MAX 13 MIN 0.000 AC-FT 1284

* Measured values, all others interpolated.

Bridge Creek at Sibbett Field

Station No. 461203

Water Year 1997



Process date 27.12.2004 09:40

WATER MONITORING SITE ANALYSIS - WY 1997**SITE NUMBER:** 461203**SITE NAME:** Bridge Creek at Sibbett Field, ID**FACILITY:** Grays Lake NWR**EQUIPMENT:**

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GAGE-HEIGHT RECORD: (Raw)**COMPLETENESS OF RECORD**

Not a continuously recorded station. Four instantaneous discharge measurements were made during the water year. Daily flow values were interpolated between measurement points.

DATA STORAGE:

Discharge measurements were made approximately monthly while water was being diverted from Bridge Creek. Measurements were recorded on discharge measurement note forms and returned to the Water Resources Branch. Measurements were entered in the WISKI database on 11/11/04 in the BrdgCrk.1.O time series.

GAGE-HEIGHT RECORD: (Edited)

Measurements begin on 5/28/97 and end on 7/30/97. Assume flow = next Q measure on 4/26, after irrigation starts. Assume flow = next Q measure when irrigation stops on 7/15. Assume all flow ends after last Q measure on 7/30. No other editing of discharge measurements were performed prior to entering data into WISKI. Interpolations were made between raw data points by the WISKI program itself. Gaps were inserted between measurements separated by more than 40 days. Interpolated values are stored within the time series "BrdgCrk.Q.1440.E"

DATUM AND TIME CORRECTIONS:

None

CONTROL:

Unknown

RATING/CONTENTS TABLE:

No rating curve exists for this site.

REMARKS:

Water diversions began on 4/25/97 and ended on 11/15/97. Four instantaneous discharge measurements were made during the irrigation season (No. 15-18). All were rated good in the field. The record is rated poor due to the limited number of measurements.

WORKED BY: Fred Wurster**DATE:** November 2004