APPENDIX A.

Summary of streamflow data collected during five seepage studies and streamflow gain and loss estimates for the lower reach of the Snake River, between the near Minidoka and at King Hill gaging stations, Idaho, March 2001 through November 2002

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Site number (see figure 3)	Gaging-station name (number) or intermediate measurement site	River mile		Discharge (ft ³ /s)	Date	Time	Total gain or (loss) (ft ³ /s)	Gain or (loss) per mile (ft ³ /s/mi)
L1	Snake River near Minidoka (13081500)	673.5		595	3/5/2001	2230	. ,	· /
			total estimated inflow	0				
			total estimated outflow	0				
L2	Snake River at Highway 77(25), near Rupert	664.0		1				
			total estimated inflow	0				
			total estimated outflow	0				
			estimated outflow to storage in					
			Milner Lake ²	0				
L3	Snake River at Highway 27, at Burley	651.6		3				
			total estimated inflow	5				
			total estimated outflow	0				
			estimated outflow to storage in					
			Milner Lake ²	0				
L4	Snake River at Milner (13088000)	638.7		644	3/6/2001	1530	44	1
				636	3/5/2001	0730		
			total estimated inflow	0				
			total estimated outflow	0				
L5	Snake River above Murtaugh Bridge, near Murtaugh	630.5		610	3/5/2001	1140	(26)	(3)
			total estimated inflow	0				
			total estimated outflow	0				
L6	Snake River near Kimberly (13090000)	617.2		884	3/5/2001	1800	274	21
				892	3/5/2001	1330		
			total estimated inflow	0				
			total estimated outflow	0				
L7	Snake River above Shoshone Falls, near Kimberly	615.2		890	3/5/2001	1425	(2)	(1)
			total estimated inflow	0				
			total estimated outflow	0				
L8	Snake River below Perrine Bridge, at Twin Falls	611.0		950	3/5/2001	1610	60	14
			total estimated inflow	57				
			total estimated outflow	0				

Table A1. Estimates of streamflow gains and losses in specified subreaches of the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, March 5-6, 2001

[ft³/s, cubic feet per second; mi, mile; ---, no data; estimated gain/loss presented across from the downstream site; values in **boldface** are statistically significant]

Site							Total gain or	Gain or (loss)
number	Gaging-station name (number) or	River		Discharge			(loss)	per mile
(see 3)	intermediate measurement site	mile		$(\mathbf{ft}^3/\mathbf{s})$	Date	Time	(ft ³ /s)	(ft ³ /s/mi)
L9	Snake River above Crystal Springs, near Buhl	601.1		1540	3/6/2001	0845	533	54
			total estimated inflow	33				
			total estimated outflow	0				
I 10	Snake River near Bubl (13004000)	596.8		1900	3/6/2001	1045	327	76
LIU	Shake River hear bani (15054000)	570.0		1890	3/6/2001	0915		
			total estimated inflow	0				
			total estimated outflow	0				
L11	Snake River below Clear Lakes outlet, near Buhl	592.8		2510	3/6/2001	1115	620	155
			total estimated inflow	0				
			total estimated outflow	0				
L12	Snake River above Banbury Springs, near Hagerman	589.2		2870	3/5/2001	1156	360	100
			total estimated inflow	125				
			total estimated outflow	0				
L13	Snake River above Thousand Springs, near Hagerman	585.6		3640	3/5/2001	1031	645	179
			total estimated inflow	0				
			total estimated outflow	0				
L14	Snake River below Thousand Springs, near Hagerman	582.9		4930	3/5/2001	0911	1,290	478
			total estimated inflow	72				
			total estimated outflow	0				
L15	Snake River above Lower Salmon Falls Power Plant, near Bliss	576.8		5470	3/6/2001	1151	468	77
			total estimated inflow	30				
			total estimated outflow	0				
			estimated outflow to storage above Lower Salmon Falls					
			Power Plant ⁴	0				
I 16	Snake River below Lower Salmon Falls, near Hagerman	570 5		5590	3/6/2001	1800	90	21
L10	(13135000)	572.5		5460	3/5/2001	1230		
			total estimated inflow	1304				
			total estimated outflow	0				
L17	Snake River above Bliss Dam, near Bliss	564.9		6630	3/5/2001	1618	(134)	(18)
			total estimated inflow	0				

Table A1. Estimates of streamflow gains and losses in specified subreaches of the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, March 5-6, 2001--Continued

Site number (see figure 3)	<i>Gaging-station name (number)</i> or intermediate measurement site	River mile		Discharge (ft ³ /s)	Date	Time	Total gain or (loss) (ft ³ /s)	Gain or (loss) per mile (ft ³ /s/mi)
			total estimated outflow	0				
			estimated outflow to storage					
			above Bliss Dam ⁴	60				
I 18	Snake River helow Rliss Dam near Rliss (13153776)	559.1		6600	3/5/2001	1930	30	5
E10	Shake River below Bliss Bun, neur Bliss (19195776)	557.1		6880	3/5/2001	1030		
			total estimated inflow	0				
			total estimated outflow	0				
L19	Snake River above Bancroft Springs, near King Hill	553.2		7010	3/5/2001	1326	130	22
			total estimated inflow	10				
			total estimated outflow	0				
L20	Snake River at King Hill (13154500)	546.6		7090	3/5/2001	1630	70	11

Table A1. Estimates of streamflow gains and losses in specified subreaches of the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, March 5-6, 2001--Continued

¹ Discharge was not measured because of river or weather conditions.

 2 Estimate based on reservoir-stage data (USGS station number 13087900).

³ Discharge was measured but not used in the calculations because of questionable accuracy (see table A3).

⁴ Estimate based on reservoir-stage data (Idaho Power Company).

Site number				Discharge
(see figure A5)	Gaging-station name (number)	Date	Time	(ft ³ /s)
L1	Snake River near Minidoka (13081500)	3/5/2001	2230	595
L4	Snake River at Milner (13088000)	3/6/2001 3/5/2001	1530 0730	644 636
L6	Snake River near Kimberly (13090000)	3/5/2001 3/5/2001	1800 1330	884 892
L10	Snake River near Buhl (13094000)	3/6/2001 3/6/2001	1045 0915	1900 1890
L16	Snake River below Lower Salmon Falls, near Hagerman (13135000)	3/6/2001 3/5/2001	1800 1230	5590 5460
L18	Snake River below Bliss Dam, near Bliss (13153776)	3/5/2001 3/5/2001	1930 1030	6600 6880
L20	Snake River at King Hill (13154500)	3/5/2001	1630	7090

Table A2. Discharge data from gaging stations along the Snake River between near Minidoka and at King Hill, Idaho, March 5-6, 2001 [ft³/s, cubic feet per second]

Table A3. Discharge data from acoustic Doppler measurements along the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, March 5-6, 2001

Site number	•				
(see figure				Discharge	
A5)	Intermediate measurement site	Date	Time	(ft ³ /s)	COV ([°] / _µ)
L2	Snake River at Highway 77(25), near Rupert			1	
L3	Snake River at Highway 27, at Burley	3/6/2001	0920	² 869	0.04
L5	Snake River above Murtaugh Bridge, near Murtaugh	3/5/2001	1140	610	.08
L7	Snake River above Shoshone Falls, near Kimberly	3/5/2001	1425	890	.09
L8	Snake River below Perrine Bride, at Twin Falls	3/5/2001	1610	950	.14
L9	Snake River above Crystal Springs, near Buhl	3/6/2001	0845	1540	.05
L11	Snake River below Clear Lakes outlet, near Buhl	3/6/2001	1115	2510	.12
L12	Snake River above Banbury Springs, near Hagerman	3/5/2001	1156	2870	.02
L13	Snake River above Thousand Springs, near Hagerman	3/5/2001	1031	3640	.04
L14	Snake River below Thousand Springs, near Hagerman	3/5/2001	0911	4930	.01
L15	Snake River above Lower Salmon Falls Power Plant, near Bliss	3/6/2001	1151	5470	.01
L17	Snake River above Bliss Dam, near Bliss	3/5/2001	1618	6630	.04
L19	Snake River above Bancroft Springs, near King Hill	3/5/2001	1326	7010	.04

 $[ft^3/s, cubic feet per second; COV, coefficient of variation; \sigma, standard deviation; \mu, mean; ---, no data]$

¹ Discharge was not measured because of shallow depths and limited access.

² Accuracy is questionable because of backwater effects and very slow velocities.

Table A4. Discharge data for all inspected inflow and outflow sites along the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, March 2-12, 2001

[Latitude and longitude in degrees, minutes, seconds referenced in North American Datum of 1983; ft³/s, cubic feet per second; site numbers shown in figure A5; ---, no data; DM, daily mean discharge; values in shaded areas indicate canal withdrawals]

	Gaging-					
	station	Loc	ation			Discharge
Inspection site name	number	Latitude	Longitude	Date	Time	(ft ³ /s)
	Subreach betwee	en site numbers l	L1 and L2			
F Drain near Declo	13082060	42 32 48	113 37 14	3/5/2001		0
D-3 Drain near Declo	13082032	42 36 49	113 36 10	3/5/2001		0
	Subreach betwee	en site numbers l	L2 and L3			
D-5 Drain near Rupert	13082062	42 33 15	113 38 38	3/5/2001		
D-4 Drain near Rupert	13082064	42 34 15	113 38 25	3/5/2001		0
Marsh Creek near Declo	13082320	42 31 26	113 40 02	3/5/2001		1
Spring Creek near Declo	13082330	42 31 01	113 41 03	3/5/2001		1
D-16 Drain near Heyburn	13084705	42 32 30	113 45 24	3/5/2001		0
	Subreach betwee	en site numbers l	L3 and L4			
B Drain near Heyburn	13084707	42 33 33	113 47 01	3/5/2001		0
D-17 Drain near Heyburn	13085060	42 32 53	113 50 51	3/5/2001		0
Main Drain North near Heyburn	13085065	42 33 02	113 51 59	3/5/2001	1200	5
G Drain near Burley	13085070	42 31 56	113 53 12	3/5/2001		
J Drain near Burley	13085080	42 31 53	113 53 29	3/5/2001		
A&B Irrigation Pump near Milner	13085500	42 32 01	113 56 51	3/5/2001	DM	0
PA Lateral Pump near Milner	13085800	42 32 02	113 58 19	3/5/2001	DM	0
Milner Irrigation Pump near Milner	13086000	42 31 10	114 00 38	3/5/2001	DM	0
Northside A Lateral near Milner	13086510	42.32.17	114 02 40	3/5/2001	DM	0
Northside Crosscut Canal near Milner	13086520	42 33 31	114 03 08	3/5/2001	DM	0
Milner-Gooding Canal near Milner	13086530	42 33 39	114 02 59	3/5/2001	DM	0
North Side Main Canal near Milner	13087000	42 33 35	114 01 10	3/5/2001	DM	0
Twin Falls Main Canal near Milner	12087500	42 31 40	114 01 10	3/5/2001	DM	0
Twin Fails Main Canar Icar Minici	Subroach botwoo	42 JI 10	I 4 and I 5	5/5/2001	DIVI	0
	Subleach betwee	en site numbers	L4 and L5			
	 Subroad botwo		 I 5 and I 6			
Missellensous agriculture rature noor Honson	12080600	40.22.55	114 10 24	2/5/2001		0
Train Falls Cardea and Hansen	13089690	42 55 55	114 19 24	3/3/2001		0
Twin Falls Coulee near Hansen	13089695	42 34 11	114 20 32	3/5/2001		112 0
Devil's washbowl Spring near Kimberly	13089600	42 35 18	114 20 45	3/12/2001	1015	12.8
	Subreach betwee	en site numbers	L6 and L7	2/6/2001	0050	127.4
Devil's Corral Springs near Kimberly	13090100	42 35 38	114 21 55	3/6/2001	0850	37.4
	Subreach betwee	en site numbers	L7 and L8			
Fish Hatchery Waste O near Twin Falls	13090370	42 35 31	114 26 05	3/5/2001		
Mary Alice Lake discharge near Twin Falls		42 35 46	114 26 51	3/5/2001		
	Subreach betwee	en site numbers	L8 and L9			10.4
Perrine Coulee near Twin Falls	13090460	42 35 53	114 28 20	3/5/2001		-2.4
Blue Lakes Outlet near Twin Falls	13091500	42 36 30	114 28 34	3/7/2001		-195
Warm Creek near Twin Falls	13091700	42 37 15	114 29 55	3/5/2001	1200	20
Rock Creek above Highway 30/93 at Twin Falls	-13092747	42 33 47	114 29 42	3/6/2001	DM	37
Jerome Golf Course Drain 1	13091733	42 38 03	114 31 02	3/5/2001		0
Miscellaneous agriculture return near Twin Falls		42 37 21	114 33 23	3/5/2001		0
Sonnickson Drain near Twin Falls	13093150	42 38 40	114 33 26	3/5/2001		0
Miscellaneous agriculture return near Twin Falls		42 38 23	114 33 32	3/5/2001		0
Miscellaneous agriculture return near Twin Falls		42 37 36	114 34 29	3/5/2001		0
Sucker Flat Drain near Filer	13093190	42 38 25	114 35 30	3/5/2001		0
Miscellaneous agriculture return near Filer		42 37 51	114 35 41	3/5/2001		0
Miscellaneous agriculture return near Filer		42 38 54	114 36 58	3/5/2001		0

Table A4. Discharge data for all inspected inflow and outflow sites along the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, March 2-12, 2001--Continued

	Gaging-	Log	ation			Discharge
Inspection site name	number	Loc	Longitude	Date	Time	(ft ³ /s)
Inspection site name	Subreach betwee	n site numbers I	Longitude	Date	Time	(11 /3)
Miscellaneous agriculture return near Filer		42 39 17	114 38 16	3/5/2001		
Crystal Springs near Filer	13093400	42 39 36	114 38 32	3/8/2001	1245	¹ 487
Cedar Draw near Filer	13093550	42 39 13	114 39 15	3/5/2001		33
Miscellaneous agriculture return near Buhl		42 39 31	114 40 42	3/5/2001		0
Waste I near Buhl	13093900	42 39 33	114 41 28	3/5/2001		0
	Subreach between	site numbers L	10 and L11	0/0/2001		Ū
Miscellaneous agriculture return near Buhl		42 40 03	114 43 10	3/6/2001		0
Miscellaneous agriculture return near Buhl		42 40 07	114 44 18	3/6/2001		0
J8 Drain near Buhl		42 40 27	114 44 27	3/6/2001		0
Clear Lakes Outlet near Buhl	13094500	42 40 01	114 46 45	3/8/2001	1240	¹ 471
	Subreach between	site numbers L	11 and L12	0/0/2001	12.0	
Mud Creek near Buhl	13094700	42.39.33	114 47 20	3/6/2001		³ 20
Deep Creek near Buhl		42 39 29	114 48 38	3/6/2001		³ 0
Briggs Creek Spring near Buhl	13095200	42.40.20	114 49 00	3/9/2001	1415	¹ 104
Driggs creek Spring near Dam	Subreach between	site numbers I	12 and L13	5/ 5/ 2001	1115	101
Irrigation Ditch to Blind Canyon near Buhl	13095490	42 42 28	114 47 30	3/6/2001		
South Coulee (Cedar Draw) near Buhl	13095360	42 41 46	114 48 19	3/6/2001		
Box Canyon Springs near Wendell	² 13095500	42 42 29	114 48 35	3/2/2001	1720	¹ 356
Blind Canyon Spring near Buhl	13095400	42 42 12	114 49 20	3/5/2001	1305	¹ 10.1
Unnamed Spring near Buhl	13095350	42 41 51	114 49 21	3/5/2001	1225	¹ 2.7
Salmon Falls Creek near Hagerman	² 13108150	42 41 47	114 51 15	3/5/2001	DM	125
C	Subreach between	site numbers L	13 and L14			
Sand Springs near Hagerman	13132600	42 43 36	114 50 00	3/5/2001	1115	¹ 70.9
Drain near Bickel Springs near Hagerman	13133785	42 45 28	114 50 48	3/5/2001		
Bickel Spring near Hagerman	13132790	42 45 29	114 51 19	3/5/2001	1405	¹ 15.8
1 0 0	Subreach between	site numbers L	.14 and L15			
Riley Creek near Hagerman	13133800	42 45 50	114 51 40	3/5/2001	1430	72
	Subreach between	site numbers L	15 and L16			
Billingsly Creek near Hagerman	13134600	42 46 44	114 51 22	3/6/2001	1310	30
	Subreach between	site numbers L	.16 and L17			
W Drain near Tuttle	13152895	42 51 50	114 51 58	3/6/2001		
Birch Creek near Hagerman	13135100	42 51 10	114 53 30	3/6/2001	1110	11
Malad Power Flume near Bliss	² 13152940	42 51 54	114 53 11	3/2/2001	1115	1190
Malad River near Bliss	² 13153500	42 51 48	114 54 04	3/2/2001	1335	103
	Subreach between	a site numbers L	.17 and L18			
Tuana Gulch near Bliss		42 54 34	115 00 02	3/6/2002		0
Irrigation Ditch near Bliss	13152450	42 55 56	115 00 19	3/6/2002		0
č	Subreach between	site numbers L	.18 and L19			-
	Subreach between	a site numbers L	.19 and L20			
Clover Creek near Bliss	13154000	43 01 30	115 00 20	3/6/2001		10

¹ Streamflow resulting from spring discharge; not used in calculation of gain/loss estimates.

² Long-term United States Geological Survey or Idaho Power Company gaging station.

³ Combined spring discharge and agriculture return flows; springflow was subtracted from field-measured value to obtain an approximate agriculture return-flow value.

EXPLANATION



Figure A5. Streamflow gains and losses along the lower reach of the Snake River, between the near Minidoka and at King Hill gaging stations, southeastern Idaho, March 5–6, 2001.

Site number (see figure 3)	Gaging-station name (number) or intermediate measurement site	River mile		Discharge (ft ³ /s)	Date	Time	Total gain or (loss) (ft ³ /s)	Gain or (loss) per mile (ft ³ /s/mi)
L1	Snake River near Minidoka (13081500)	673.5		570	11/5/2001	0630		i
			total estimated inflow	0				
			total estimated outflow	0				
L2	Snake River at Highway 77(25), near Rupert	664.0		574	11/5/2001	1100	4	0
			total estimated inflow	0				
			total estimated outflow	0				
			estimated outflow to storage in					
			Milner Lake ¹	0				
L3	Snake River at Highway 27, at Burley	651.6		605	11/5/2001	1300	31	3
			total estimated inflow	25				
			total estimated outflow	0				
			estimated outflow to storage in					
			Milner Lake	0				
L4	Snake River at Milner (13088000)	638.7		635	11/5/2001	2300	5	0
				622	11/5/2001	1015		
			total estimated inflow	0				
			total estimated outflow	0				
L5	Snake River above Murtaugh Bridge, near Murtaugh	630.5		694	11/5/2001	1411	72	9
			total estimated inflow	0				
			total estimated outflow	0				
L6	Snake River near Kimberly (13090000)	617.2		899	11/5/2001	2030	205	15
				969	11/7/2001	1545		
			total estimated inflow	0				
			total estimated outflow	0				
L7	Snake River above Shoshone Falls, near Kimberly	615.2		1120	11/7/2001	1640	151	76
			total estimated inflow	30				
			total estimated outflow	0				
L8	Snake River below Perrine Bridge, at Twin Falls	611.0		1250	11/7/2001	1530	100	24
			total estimated inflow	143				
			total estimated outflow	0				

Table A6. Estimates of streamflow gains and losses in specified subreaches of the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, November 5-7, 2001

Site number	Caging station name (number) or	Divor		Discharge			Total gain or (loss)	Gain or (loss) per mile
(see figure 3)	intermediate measurement site	mile		(ft^3/s)	Date	Time	(ft^3/s)	(ft ³ /s/mi)
L9	Snake River above Crystal Springs, near Buhl	601.1		1700	11/7/2001	1340	307	31
			total estimated inflow	84				
			total estimated outflow	0				
I 10	Such a Pinar near Publ (13004000)	506 8		2380	11/7/2001	1545	596	139
L10	Shuke River hear Buni (15094000)	390.8		2300	11/6/2001	1130		
			total estimated inflow	0				
			total estimated outflow	0				
L11	Snake River below Clear Lakes outlet, near Buhl	592.8		2920	11/6/2001	1335	620	155
			total estimated inflow	0				
			total estimated outflow	0				
L12	Snake River above Banbury Springs, near Hagerman	589.2		2810	11/6/2001	1315	(110)	(31)
			total estimated inflow	157				
			total estimated outflow	0				
L13	Snake River above Thousand Springs, near Hagerman	585.6		3810	11/6/2001	1350	843	234
			total estimated inflow	0				
			total estimated outflow	0				
L14	Snake River below Thousand Springs, near Hagerman	582.9		5110	11/6/2001	1140	1,300	481
			total estimated inflow	80				
			total estimated outflow	0				
L15	Snake River above Lower Salmon Falls Power Plant, near Bliss	576.8		5850	11/7/2001	1145	660	108
			total estimated inflow	50				
			total estimated outflow	0				
			estimated outflow to storage above Lower Salmon Falls					
			Power Plant ²	3				
116	Snake River below Lower Salmon Falls, near Hagerman	570 F						
L16	(13135000)	572.5		6490	11/6/2001	1030		
			total estimated inflow	1176				
			total estimated outflow	0				
L17	Snake River above Bliss Dam, near Bliss	564.9		4				
			total estimated inflow	2				

Table A6. Estimates of streamflow gains and losses in specified subreaches of the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, November 5-7, 2001--Continued

Site number (see figure 3)	<i>Gaging-station name (number)</i> or intermediate measurement site	River mile		Discharge (ft ³ /s)	Date	Time	Total gain or (loss) (ft ³ /s)	Gain or (loss) per mile (ft ³ /s/mi)
			total estimated outflow	0				
			above Bliss Dam ²	-70				
T 10	Such Diversity Jew Diver Dawn and Diver (12152776)	550 1		7800	11/6/2001	1700	62	5
L18	Snake River Delow Bliss Dam, near Bliss (13133/70)	559.1		7820	11/6/2001	0745		
			total estimated inflow	0				
			total estimated outflow	0				
L19	Snake River above Bancroft Springs, near King Hill	553.2		7800	11/6/2001	1050	(20)	(3)
			total estimated inflow	15				
			total estimated outflow	0				
L20	Snake River at King Hill (13154500)	546.6		7770	11/6/2001	1445	(45)	(7)

Table A6. Estimates of streamflow gains and losses in specified subreaches of the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, November 5-7, 2001--Continued

¹ Estimate based on reservoir-stage data (USGS station number 13087900).

² Estimate based on reservoir-stage data (Idaho Power Company).

³ Unable to estimate reservoir-storage changes because of large variability.

⁴ Discharge was measured but not used in the calculations because of questionable accuracy (see table A8).

Table A7.	Discharge data from	gaging stations	along the Snake	e River between r	ear Minidoka and a	t King
Hill, Idaho,	November 5-7, 200 ⁻	l				

Site number (see figure A10)	Gaging-station name (number)	Date	Time	Discharge (ft ³ /s)
L1	Snake River near Minidoka (13081500)	11/5/2001	0630	570
L4	Snake River at Milner (13088000)	11/5/2001 11/5/2001	2300 1015	635 622
L6	Snake River near Kimberly (13090000)	11/5/2001 11/7/2001	2030 1545	899 969
L10	Snake River near Buhl (13094000)	11/7/2001 11/6/2001	1545 1130	2380 2300
L16	Snake River below Lower Salmon Falls, near Hagerman (13135000)			¹
L18	Snake River below Bliss Dam, near Bliss (13153776)	11/6/2001	1700	7800
L20	Snake River at King Hill (13154500)	11/6/2001	0745 1445	7820 7770

[ft³/s, cubic feet per second; ---, no data]

¹ Discharge data not used because of unsteady streamflow conditions.

Table A8. Discharge data from acoustic Doppler measurements along the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, November 5-7, 2001

Site number				D : 1	
(see figure				Discharge	_
A10)	Intermediate measurement site	Date	Time	(ft ³ /s)	$COV(^{\sigma}/_{\mu})$
L2	Snake River at Highway 77(25) near Rupert	11/5/2001	1100	574	0.29
L3	Snake River at Highway 27 at Burley	11/5/2001	1300	605	.54
L5	Snake River above Murtaugh Bridge near Murtaugh	11/5/2001	1411	694	.05
L7	Snake River above Shoshone Falls near Kimberly	11/7/2001	1640	1120	.05
L8	Snake River below Perrine Bride at Twin Falls	11/7/2001	1530	1250	.07
L9	Snake River above Crystal Springs near Buhl	11/7/2001	1340	1700	.05
L11	Snake River below Clear Lakes outlet near Buhl	11/6/2001	1335	2920	.03
L12	Snake River above Banbury Springs near Hagerman	11/6/2001	1315	2810	.06
L13	Snake River above Thousand Springs near Hagerman	11/6/2001	1350	3810	.02
L14	Snake River below Thousand Springs near Hagerman	11/6/2001	1140	5110	.03
L15	Snake River above Lower Salmon Falls Power Plant near Bliss	11/7/2001	1145	5850	.09
L17	Snake River above Bliss Dam near Bliss	11/6/2001	1408	¹ 8080	.07
L19	Snake River above Bancroft Springs near King Hill	11/6/2001	1050	7800	.02

 $[ft^3/s, cubic feet per second; COV, coefficient of variation; \sigma, standard deviation; \mu, mean]$

¹ Accuracy is questionable because of unsteady releases from Lower Salmon Falls Power Plant.

Table A9. Discharge data for all inspected inflow and outflow sites along the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, November 6, 2001

[Latitude and longitude in degrees, minutes, seconds referenced in North American Datum of 1983; ft^3/s , cubic feet per second; site numbers shown in figure A10; ---, no data; DM, daily mean discharge; values in shaded areas indicate canal withdrawals]

taticn Discharge (Pr ² /s) Lapection site name Li and L2 F Drain near Declo 13082302 42 32 48 113 37 14 (Pr ² /s) Subreach between site numbers L2 and L3 D Subreach between site numbers L2 and L3 0 D-10 nin near Rupert 13082306 42 31 55 11/62/201 0 D-16 Drain near Rupert 13082306 42 31 52 11/62/201 0 D-16 Drain near Heyburn 13082306 42 32 33 134 52 11/62/201 0 D-16 Drain near Heyburn 1308506 42 32 32 113 35 21 11/62/201 Drain near Heyburn 1308506 42 31 52 11/62/201 <th cols<="" th=""><th></th><th>Gaging-</th><th></th><th></th><th></th><th></th><th></th></th>	<th></th> <th>Gaging-</th> <th></th> <th></th> <th></th> <th></th> <th></th>		Gaging-					
Inspection site name Latitude Longitude Date Time (ft'/s) F Drain near Declo 1308/2060 42 32 48 113 37 14 11/6/2001 0 D-3 Drain near Declo 1308/2022 42 36 49 113 37 14 11/6/2001 0 D-5 Drain near Rupert 1308/2064 42 31 15 113 38 25 11/6/2001 0 March Cresk near Declo 1308/2302 42 31 26 113 48 002 11/6/2001 0 John near Rupert 1308/230 42 31 26 113 43 52 11/6/2001 0 D-16 Drain near Heyburn 1308/4705 42 32 30 113 34 52 11/6/2001 0 D-17 Drain near Heyburn 1308/806 42 31 26 113 51 2 11/6/2001 0 0 D-17 Drain near Heyburn 1308/806 42 31 56 113 51 2 11/6/2001 DM 0 Drain near Buelya 1308/800 42 31 50 11 37 61 11/6/2001 DM 0 Drain near Buel		station	Location		<u>.</u>		Discharge	
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Warm Creek near Twin Falls 13091700 42 37 15 114 29 55 11/6/2001 1230 40 Rock Creek above Highway 30/93 at Twin Falls 213092747 42 33 47 114 29 42 11/6/2001 DM 79 Jerome Golf Course Drain 1 13091733 42 38 03 114 31 02 11/6/2001 0 Miscellaneous agriculture return near Twin Falls 42 37 21 114 33 23 11/6/2001 0 Sonnickson Drain near Twin Falls 13093150 42 38 40 114 33 26 11/6/2001 0 Miscellaneous agriculture return near Twin Falls 42 38 23 114 33 32 11/6/2001 0 Miscellaneous agriculture return near Twin Falls 42 38 23 114 33 32 11/6/2001 0 Miscellaneous agriculture return near Twin Falls 42 38 23 114 33 32 11/6/2001 1250 15 Sucker Flat Drain near Filer 13093190 42 38 25 114 35 30 11/6/2001 1330 5 Miscellaneous agriculture return near Filer 42 37 51 114 35 41 11/6/2001 1345 <td>Blue Lakes Outlet near Twin Falls</td> <td>13091500</td> <td>42.36.30</td> <td>114 28 34</td> <td>11/6/2001</td> <td></td> <td></td>	Blue Lakes Outlet near Twin Falls	13091500	42.36.30	114 28 34	11/6/2001			
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Jerome Golf Course Drain 1 13091733 42 38 03 114 31 02 11/6/2001 0 Miscellaneous agriculture return near Twin Falls 42 37 21 114 33 23 11/6/2001 0 Sonnickson Drain near Twin Falls 13093150 42 38 40 114 33 26 11/6/2001 0 Miscellaneous agriculture return near Twin Falls 13093150 42 38 40 114 33 22 11/6/2001 0 Miscellaneous agriculture return near Twin Falls 42 38 23 114 33 32 11/6/2001 0 Miscellaneous agriculture return near Twin Falls 42 37 36 114 34 29 11/6/2001 1250 15 Sucker Flat Drain near Filer 13093190 42 38 25 114 35 30 11/6/2001 1330 5 Miscellaneous agriculture return near Filer 42 37 51 114 35 41 11/6/2001 1345 2 Miscellaneous agriculture return near Filer 42 38 54 114 36 58 11/6/2001 1345 2	Rock Creek above Highway 30/93 at Twin Falls	² 13092747	42 33 47	114 29 42	11/6/2001	DM	79	
Miscellaneous agriculture return near Twin Falls 42 37 21 114 33 23 11/6/2001 0 Sonnickson Drain near Twin Falls 13093150 42 38 40 114 33 26 11/6/2001 0 Miscellaneous agriculture return near Twin Falls 42 38 23 114 33 32 11/6/2001 0 Miscellaneous agriculture return near Twin Falls 42 37 36 114 34 29 11/6/2001 1250 15 Sucker Flat Drain near Filer 13093190 42 38 25 114 35 30 11/6/2001 1330 5 Miscellaneous agriculture return near Filer 42 37 51 114 35 41 11/6/2001 1345 2 Miscellaneous agriculture return near Filer 42 38 54 114 36 58 11/6/2001 1345 2	Jerome Golf Course Drain 1	13091733	42 38 03	114 31 02	11/6/2001		0	
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Miscellaneous agriculture return near Twin Falls 42 38 23 114 33 32 11/6/2001 0 Miscellaneous agriculture return near Twin Falls 42 37 36 114 34 29 11/6/2001 1250 15 Sucker Flat Drain near Filer 13093190 42 38 25 114 35 30 11/6/2001 1330 5 Miscellaneous agriculture return near Filer 42 37 51 114 35 41 11/6/2001 1345 2 Miscellaneous agriculture return near Filer 42 38 54 114 36 58 11/6/2001 1350 2	Sonnickson Drain near Twin Falls	13093150	42 38 40	114 33 26	11/6/2001		0	
Miscellaneous agriculture return near Filer 42 37 36 114 34 29 11/6/2001 1250 15 Miscellaneous agriculture return near Filer 13093190 42 38 25 114 35 30 11/6/2001 1330 5 Miscellaneous agriculture return near Filer 42 37 51 114 35 41 11/6/2001 1345 2 Miscellaneous agriculture return near Filer 42 38 54 114 36 58 11/6/2001 1350 2	Miscellaneous agriculture return near Twin Falls		42.38.23	114 33 32	11/6/2001		0	
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Miscellaneous agriculture return near Filer 42 37 51 114 35 41 11/6/2001 1345 2 Miscellaneous agriculture return near Filer 42 38 54 114 36 58 11/6/2001 1350 2	Sucker Flat Drain near Filer	13093190	42 38 25	114 35 30	11/6/2001	1330	5	
Miscellaneous agriculture return near Filer 42 38 54 114 36 58 11/6/2001 1350 2	Miscellaneous agriculture return near Filer		42 37 51	114 35 41	11/6/2001	1345	2	
	Miscellaneous agriculture return near Filer		42 38 54	114 36 58	11/6/2001	1350	2	

Table A9. Discharge data for all inspected inflow and outflow sites along the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, November 6, 2001--Continued

	Gaging-					
	station	Loc	ation			Discharge
Inspection site name	number	Latitude	Longitude	Date	Time	(ft ³ /s)
	Subreach between	n site numbers I	L9 and L10			
Miscellaneous agriculture return near Filer		42 39 17	114 38 16	11/6/2001		0
Crystal Springs near Filer	13093400	42 39 36	114 38 32	11/6/2001		
Cedar Draw near Filer	13093550	42 39 13	114 39 15	11/6/2001	1455	54
Miscellaneous agriculture return near Buhl		42 39 31	114 40 42	11/6/2001		0
Waste I near Buhl	13093900	42 39 33	114 41 28	11/6/2001	1530	30
	Subreach between	site numbers L	10 and L11			
Miscellaneous agriculture return near Buhl		42 40 03	114 43 10	11/6/2001		0
Miscellaneous agriculture return near Buhl		42 40 07	114 44 18	11/6/2001		0
J8 Drain near Buhl		42 40 27	114 44 27	11/6/2001		0
Clear Lakes Outlet near Buhl	13094500	42 40 01	114 46 45	11/6/2001		
	Subreach between	site numbers L	11 and L12			
Mud Creek near Buhl ⁴	13094700	42 39 33	114 47 20	11/6/2001		
Deep Creek near Buhl ⁴		42 39 29	114 48 38	11/6/2001		
Briggs Creek Spring near Buhl	13095200	42 40 20	114 49 00	11/6/2001		
	Subreach between	site numbers L	12 and L13			
Irrigation Ditch to Blind Canyon near Buhl	13095490	42 42 28	114 47 30	11/6/2001		
South Coulee (Cedar Draw) near Buhl	13095360	42 41 46	114 48 19	11/6/2001		
Box Canyon Springs near Wendell	² 13095500	42 42 29	114 48 35	11/6/2001	DM	¹ 346
Blind Canyon Spring near Buhl	13095400	42 42 12	114 49 20	11/6/2001		
Unnamed Spring near Buhl	13095350	42 41 51	114 49 21	11/6/2001		
Salmon Falls Creek near Hagerman	² 13108150	42 41 47	114 51 15	11/6/2001	DM	157
-	Subreach between	site numbers L	13 and L14			
Sand Springs near Hagerman	13132600	42 43 36	114 50 00	11/6/2001		
Drain near Bickel Springs near Hagerman	13133785	42 45 28	114 50 48	11/6/2001		
Bickel Spring near Hagerman	13132790	42 45 29	114 51 19	11/6/2001		
	Subreach between	site numbers L	14 and L15			
Riley Creek near Hagerman	13133800	42 45 50	114 51 40	11/6/2001		80
	Subreach between	site numbers L	15 and L16			
Billingsly Creek near Hagerman	13134600	42 46 44	114 51 22	11/6/2001		50
	Subreach between	site numbers L	16 and L17			
W Drain near Tuttle	13152895	42 51 50	114 51 58	11/6/2001		
Birch Creek near Hagerman	13135100	42 51 10	114 53 30	11/6/2001		10
Malad Power Flume near Bliss	² 13152940	42 51 54	114 53 11	11/6/2001	DM	1070
Malad River near Bliss	² 13153500	42 51 48	114 54 04	11/6/2001	DM	96
	Subreach between	site numbers L	17 and L18			
Tuana Gulch near Bliss		42 54 34	115 00 02	11/6/2001		2
Irrigation Ditch near Bliss	13152450	42 55 56	115 00 19	11/6/2001		0
-	Subreach between	site numbers L	18 and L19			
	Subreach between	site numbers L	19 and L20			
Clover Creek near Bliss	13154000	43 01 30	115 00 20	11/6/2001		15

¹ Streamflow resulting from spring discharge; not used in calculation of gain/loss estimates.

² Long-term United States Geological Survey or Idaho Power Company gaging station.

EXPLANATION



Figure A10. Streamflow gains and losses along the lower reach of the Snake River, between the near Minidoka and at King Hill gaging stations, southeastern Idaho, November 5–7, 2001.

Site number (see figure 3)	Gaging-station name (number) or intermediate measurement site	River mile		Discharge (ft ³ /s)	Date	Time	Total gain or (loss) (ft ³ /s)	Gain or (loss) per mile (ft ³ /s/mi)
L1	Snake River near Minidoka (13081500)	673.5		590	3/11/2002	0530		· · · ·
			total estimated inflow	4				
			total estimated outflow	0				
L2	Snake River at Highway 77(25), near Rupert	664.0		594	3/11/2002	1000	0	0
			total estimated inflow	5				
			total estimated outflow	0				
			estimated outflow to storage in					
			Milner Lake ¹	0				
L3	Snake River at Highway 27, at Burley	651.6		2				
			total estimated inflow	3				
			total estimated outflow	0				
			estimated outflow to storage in					
			Milner Lake ¹	0				
L4	Snake River at Milner (13088000)	638.7		609	3/11/2002	1600	7	0
				614	3/11/2002	1200		
			total estimated inflow	0				
			total estimated outflow	0				
L5	Snake River above Murtaugh Bridge, near Murtaugh	630.5		697	3/11/2002	1600	83	10
			total estimated inflow	0				
			total estimated outflow	0				
L6	Snake River near Kimberly (13090000)	617.2		834	3/11/2002	2230	137	10
				808	3/12/2002	0830		
			total estimated inflow	0				
			total estimated outflow	0				
L7	Snake River above Shoshone Falls, near Kimberly	615.2		898	3/12/2002	0930	90	45
			total estimated inflow	0				
			total estimated outflow	0				
L8	Snake River below Perrine Bridge, at Twin Falls	611.0		939	3/12/2002	0945	41	10
			total estimated inflow	94				
			total estimated outflow	0				

Table A11. Estimates of streamflow gains and losses in specified subreaches of the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, March 11-12, 2002

[ft³/s, cubic feet per second; mi, mile; ---, no data; estimated gain/loss presented across from the downstream site; values in **boldface** are statistically significant]

Site number							Total gain or	Gain or (loss)
(see	Gaging-station name (number) or	River		Discharge			(loss)	per mile
figure 3)	intermediate measurement site	mile		(ft³/s)	Date	Time	(ft³/s)	(ft³/s/mi)
L9	Snake River above Crystal Springs, near Buhl	601.1		1270	3/12/2002	1200	237	24
			total estimated inflow	34				
			total estimated outflow	0				
L10	Snake River near Buhl (13094000)	596.8		1930	3/12/2002	1400	626	146
		.,		1950	3/12/2002	1145		
			total estimated inflow	0				
			total estimated outflow	0				
L11	Snake River below Clear Lakes outlet, near Buhl	592.8		2750	3/12/2002	1255	800	200
			total estimated inflow	22				
			total estimated outflow	0				
L12	Snake River above Banbury Springs, near Hagerman	589.2		2670	3/12/2002	1030	(102)	(28)
			total estimated inflow	116				
			total estimated outflow	0				
L13	Snake River above Thousand Springs, near Hagerman	585.6		3500	3/12/2002	0940	714	198
			total estimated inflow	0				
			total estimated outflow	0				
L14	Snake River below Thousand Springs, near Hagerman	582.9		4700	3/12/2002	0900	1,200	444
			total estimated inflow	71				
			total estimated outflow	0				
L15	Snake River above Lower Salmon Falls Power Plant, near Bliss	576.8		5170	3/12/2002	1200	399	65
			total estimated inflow	23				
			total estimated outflow	0				
			estimated outflow to storage					
			above Lower Salmon Falls	80				
	Such a Piver below Lower Salmon Falls, near Hacorman		Power Plant	-00	2/12/2002	1400	27	0
L16	(13135000)	572.5		5310	3/12/2002	1400	57	9
	()		total estimated inflow	1209	3/12/2002	1000		
			total estimated outflow	1209				
I 17	Snake River above Bliss Dam, near Bliss	564.9	total estimated outflow	6630	3/12/2002	1400	111	15
L1/	Shake Kiver above Dilss Daili, ilcar Dilss	504.7	total estimated inflow	1	3/12/2002	1400	111	15
			total estimated IIIIOW	1				

 Table A11. Estimates of streamflow gains and losses in specified subreaches of the Snake River between the near Minidoka and at King Hill

 gaging stations, Idaho, March 11-12, 2002--Continued

Site number (see figure 3)	<i>Gaging-station name (number)</i> or intermediate measurement site	River mile		Discharge (ft ³ /s)	Date	Time	Total gain or (loss) (ft ³ /s)	Gain or (loss) per mile (ft ³ /s/mi)
			total estimated outflow	0				
			above Bliss Dam ³	40				
				6740	3/12/2002	1700	149	26
L18	Snake River below Bliss Dam, near Bliss (13153776)	559.1		6740	3/12/2002	1215		
			total estimated inflow	0				
			total estimated outflow	0				
L19	Snake River above Bancroft Springs, near King Hill	553.2		6730	3/12/2002	1515	(10)	(2)
			total estimated inflow	4				
			total estimated outflow	0				
L20	Snake River at King Hill (13154500)	546.6		7310	3/12/2002	1830	5	

Table A11. Estimates of streamflow gains and losses in specified subreaches of the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, March 11-12, 2002--Continued

¹ Estimate based on reservoir-stage data (USGS station number 13087900).

² Discharge was not measured because of river or weather conditions.

³ Estimate based on reservoir-stage data (Idaho Power Company).

⁴ Apparent snowmelt runoff event; flow on March 12, 2002, was likely much larger than the 100 ft³/s reported for Clover Creek on March 20, 2002.

⁵ Not calculated because of unknown, and likely large, inflows from Clover Creek.

Table A12. Discharge data from gaging stations along the Snake River between near Minidoka and at
King Hill, Idaho, March 11-12, 2002

fit /s, cubic feet per second	$[ft^3/s]$	cubic	feet	per	second]	
-------------------------------	------------	-------	------	-----	---------	--

Site number				Discharge
(see figure A15)	Gaging-station name (number)	Date	Time	(ft ³ /s)
L1	Snake River near Minidoka (13081500)	3/11/2002	0530	590
L4	Snake River at Milner (13088000)	3/11/2002 3/11/2002	1600 1200	609 614
L6	Snake River near Kimberly (13090000)	3/11/2002 3/12/2002	2230 0830	834 808
L10	Snake River near Buhl (13094000)	3/12/2002 3/12/2002	1400 1145	1930 1950
L16	Snake River below Lower Salmon Falls, near Hagerman (13135000)	3/12/2002 3/12/2002	1400 1000	5310 5310
L18	Snake River below Bliss Dam, near Bliss (13153776)	3/12/2002 3/12/2002	1700 1215	6740 6740
L20	Snake River at King Hill (13154500)	3/12/2002	1830	7310

Table A13. Discharge data from acoustic Doppler measurements along the Snake River between the
near Minidoka and at King Hill gaging stations, Idaho, March 11-12, 2002

Site number					
(see figure				Discharge	
A15)	Intermediate measurement site	Date	Time	(ft ³ /s)	COV (^۳ / _µ)
L2	Snake River at Highway 77(25) near Rupert	3/11/2002	1000	594	0.07
L3	Snake River at Highway 27 at Burley	1			
L5	Snake River above Murtaugh Bridge at Murtaugh	3/11/2002	1600	697	.03
L7	Snake River above Shoshone Falls near Kimberly	3/12/2002	0930	898	.12
L8	Snake River below Perrine Bride at Twin Falls	3/12/2002	0945	939	.03
L9	Snake River above Crystal Springs near Buhl	3/12/2002	1200	1270	.06
L11	Snake River below Clear Lakes outlet near Buhl	3/12/2002	1255	2750	.04
L12	Snake River above Banbury Springs near Hagerman	3/12/2002	1030	2670	.04
L13	Snake River above Thousand Springs near Hagerman	3/12/2002	0940	3500	.04
L14	Snake River below Thousand Springs near Hagerman	3/12/2002	0900	4700	.01
L15	Snake River above Lower Salmon Falls Power Plant near Bliss	3/12/2002	1200	5170	.01
L17	Snake River above Bliss Dam near Bliss	3/12/2002	1400	6630	.04
L19	Snake River above Bancroft Springs near King Hill	3/12/2002	1515	6730	.02

[ft³/s, cubic feet per second; COV, coefficient of variation; σ , standard deviation; μ , mean; ---, no data]

¹ Discharge was not measured because of river or weather conditions.

Table A14. Discharge data for all inspected inflow and outflow sites along the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, March 11-20, 2002

[Latitude and longitude in degrees, minutes, seconds referenced in North American Datum of 1983; ft³/s, cubic feet per second; site numbers shown in figure A15; ---, no data; DM, daily mean discharge; values in shaded areas indicate canal withdrawals]

	Gaging-					
	station	Location				Discharge
Inspection site name	number	Latitude	Longitude	Date	Time	(ft ³ /s)
	Subreach betwe	en site numbers	L1 and L2			
F Drain near Declo	13082060	42 32 48	113 37 14	3/12/2002		2
D-3 Drain near Declo	13082032	42 36 49	113 36 10	3/12/2002		2
	Subreach betwe	en site numbers	L2 and L3			
D-5 Drain near Rupert	13082062	42 33 15	113 38 38	3/12/2002		2
D-4 Drain near Rupert	13082064	42 34 15	113 38 25	3/12/2002		3
Marsh Creek near Declo	13082320	42 31 26	113 40 02	3/12/2002		¹ 6
Spring Creek near Declo	13082330	42 31 01	113 41 03	3/12/2002		¹ 6
D-16 Drain near Heyburn	13084705	42 32 30	113 45 24	3/12/2002		0
	Subreach betwe	en site numbers	L3 and L4			
B Drain near Heyburn	13084707	42 33 33	113 47 01	3/13/2002		1
D-17 Drain near Heyburn	13085060	42 32 53	113 50 51	3/13/2002		0
Main Drain North near Heyburn	13085065	42 33 02	113 51 59	3/13/2002		0
G Drain near Burley	13085070	42 31 56	113 53 12	3/13/2002		2
J Drain near Burley	13085080	42 31 53	113 53 29	3/13/2002		0
A&B Irrigation Pump near Milner	13085500	42 32 01	113 56 51	3/13/2002	DM	0
PA Lateral Pump near Milner	13085800	42 32 02	113 58 19	3/13/2002	DM	0
Milner Irrigation Pump near Milner	13086000	42 31 10	114 00 38	3/13/2002	DM	0
Northside A Lateral near Milner	13086510	42 32 17	114 02 40	3/13/2002	DM	0
Northside Crosscut Canal near Milner	13086520	42 33 31	114 03 08	3/13/2002	DM	0
Milner-Gooding Canal near Milner	13086530	42 33 39	114 02 59	3/13/2002	DM	0
North Side Main Canal near Milner	13087000	42 31 46	114 01 10	3/13/2002	DM	0
Twin Falls Main Canal near Milner	13087500	42 31 18	114 01 03	3/13/2002	DM	0
	Subreach betwee	en site numbers	L4 and L5	5/15/2002	DIM	0
	Subreach betwe	en site numbers	L5 and L6			
Miscellaneous agriculture return near Hansen	13089690	42.33.55	114 19 24	3/13/2002		0
Twin Falls Coulee near Hansen	13089695	42 34 11	114 20 32	3/13/2002		0
Devil's Washbowl Spring near Kimberly	13089600	42 35 18	114 20 45	3/14/2002	1545	¹ 11 1
Dennis Washeet in Spring near Thinsensy	Subreach betwee	en site numbers	L6 and L7	5/11/2002	1010	
Devil's Corral Springs near Kimberly	13090100	A2 35 38	114 21 55	3/11/2002	1000	¹ 35.9
Devirs Contai Springs near Kinoerry	Subreach betwee	en site numbers	I 7 and I 8	5/11/2002	1000	55.7
Fish Hatchery Waste O near Twin Falls	13090370	42 35 31	114 26 05	3/13/2002		0
Mary Alice I ake discharge near Twin Falls		42 35 31	114 26 51	3/12/2002		0
wary Anec Lake discharge near 1 win 1 ans	Subreach betwee	en site numbers	I & and I Q	5/12/2002		0
Perrine Coulee near Twin Falls	13090460	A2 35 53	114 28 20			1
Blue Lakes Outlet near Twin Falls	12001500	42 35 35	114 28 20	2/14/2002	1515	¹ 183
Warm Creek near Twin Falls	12001700	42 30 30	114 20 55	3/14/2002	1515	40
Rock Creek above Highway 30/03 at Twin Falls	² 13092747	42 37 13	114 29 33	3/14/2002	 DM	40
Laroma Colf Course Drain 1	12001722	42 33 47	114 23 42	3/13/2002	DM	43
Missellangous agriculture return near Twin Falls	15091755	42 38 05	114 31 02	3/13/2002		0
Soppiekson Drein neur Twin Fells	12002150	42 37 21	114 33 23	3/13/2002		0
Solinickson Drain hear Twin Fails	13093130	42 38 40	114 33 20	3/13/2002		0
Missellaneous agriculture return near 1 win Falls		42 38 23	114 33 32	2/12/2002		0
wiscenatious agriculture return near 1 win Falls		42 37 30	114 34 29	3/13/2002	0945	5
Miscellaneous agriculture return near Filer	13073170	42 30 23	114 35 50	3/13/2002	1020	5 1
Miscellaneous agriculture return near Filer		42 38 54	114 36 58	3/13/2002	1020	0
miseenancous agriculture return near riter		72 JU JT	114 30 30	5/15/2002		0

Table A14. Discharge data for all inspected inflow and outflow sites along the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, March 11-20, 2002--Continued

	Gaging-									
	station	Loc	ation			Discharge				
Inspection site name	number	Latitude	Longitude	Date	Time	(ft ³ /s)				
	Subreach between	n site numbers]	L9 and L10							
Miscellaneous agriculture return near Filer		42 39 17	114 38 16	3/13/2002	1310	1				
Crystal Springs near Filer	13093400	42 39 36	114 38 32	3/13/2002	1200	¹ 455				
Cedar Draw near Filer	13093550	42 39 13	114 39 15	3/13/2002	1345	29				
Miscellaneous agriculture return near Buhl		42 39 31	114 40 42	3/13/2002	1445	4				
Waste I near Buhl	13093900	42 39 33	114 41 28	3/13/2002		0				
	Subreach between	site numbers I	L10 and L11							
Miscellaneous agriculture return near Buhl		42 40 03	114 43 10	3/13/2002		0				
Miscellaneous agriculture return near Buhl		42 40 07	114 44 18	3/13/2002		0				
J8 Drain near Buhl		42 40 27	114 44 27	3/13/2002		0				
Clear Lakes Outlet near Buhl	13094500	42 40 01	114 46 45	3/20/2002	1025	¹ 468				
	Subreach between site numbers L11 and L12									
Mud Creek near Buhl ³	13094700	42 39 33	114 47 20	3/13/2002	1120	22				
Deep Creek near Buhl ³		42 39 29	114 48 38	3/12/2002	1710	0				
Briggs Creek Spring near Buhl	13095200	42 40 20	114 49 00	3/15/2002	1110	¹ 103				
Subreach between site numbers L12 and L13										
Irrigation Ditch to Blind Canyon near Buhl	13095490	42 42 28	114 47 30	3/13/2002						
South Coulee (Cedar Draw) near Buhl	13095360	42 41 46	114 48 19	3/13/2002						
Box Canyon Springs near Wendell	² 13095500	42 42 29	114 48 35	3/12/2002	1240	¹ 335				
Blind Canyon Spring near Buhl	13095400	42 42 12	114 49 20	3/12/2002	1125	¹ 11.4				
Unnamed Spring near Buhl	13095350	42 41 51	114 49 21	3/13/2002	1225	¹ 2.7				
Salmon Falls Creek near Hagerman	² 13108150	42 41 47	114 51 15	3/13/2002	DM	116				
-	Subreach between	site numbers I	L13 and L14							
Sand Springs near Hagerman	13132600	42 43 36	114 50 00	3/12/2002	1140	¹ 67.0				
Drain near Bickel Springs near Hagerman	13133785	42 45 28	114 50 48	3/12/2002						
Bickel Spring near Hagerman	13132790	42 45 29	114 51 19	3/12/2002	1535	¹ 15.8				
	Subreach between	site numbers I	L14 and L15							
Riley Creek near Hagerman	13133800	42 45 50	114 51 40	3/12/2002	1530	71				
	Subreach between	site numbers I	L15 and L16							
Billingsly Creek near Hagerman	13134600	42 46 44	114 51 22	3/11/2002	1415	23.1				
	Subreach between	site numbers I	L16 and L17							
W Drain near Tuttle	13152895	42 51 50	114 51 58	3/12/2002		0				
Birch Creek near Hagerman	13135100	42 51 10	114 53 30	3/11/2002	1220	10.5				
Malad Power Flume near Bliss	² 13152940	42 51 54	114 53 11	3/11/2002	0825	1110				
Malad River near Bliss	² 13153500	42 51 48	114 54 04	3/11/2002	1040	88.4				
	Subreach between	site numbers I	L17 and L18							
Tuana Gulch near Bliss		42 54 34	115 00 02	3/11/2002	1455	1				
Irrigation Ditch near Bliss	13152450	42 55 56	115 00 19	3/11/2002	1220	0				
	Subreach between	site numbers I	L18 and L19							
	Subreach between	site numbers I	L19 and L20							
Clover Creek near Bliss	13154000	43 01 30	115 00 20	3/20/2002	0945	⁴ 100				

¹ Streamflow resulting from spring discharge; not used in calculation of gain/loss estimates.

² Long-term United States Geological Survey or Idaho Power Company gaging station.

³ Combined spring discharge and agriculture return flows; springflow was subtracted from field-measured value to obtain an approximate agriculture return-flow value.

⁴ Apparent snowmelt runoff event; discharge on March 12, 2002, could have been much larger than 100 ft³/s.

EXPLANATION



Figure A15. Streamflow gains and losses along the lower reach of the Snake River, between the near Minidoka and at King Hill gaging stations, southeastern Idaho, March 11–12, 2002.

Site number (see figure 3)	Gaging-station name (number) or intermediate measurement site	River mile		Discharge (ft ³ /s)	Date	Time	Total gain or (loss) (ft ³ /s)	Gain or (loss) per mile (ft ³ /s/mi)
L1	Snake River near Minidoka (13081500)	673.5		8650	7/25/2002	0200	(10/15)	(10,111)
			total estimated inflow	24				
			total estimated outflow	0				
L2	Snake River at Highway 77(25), near Rupert	664.0		8320	7/25/2002	0630	(354)	(37)
			total estimated inflow	29				
			total estimated outflow	0				
			estimated outflow to storage in					
			Milner Lake ¹	0				
L3	Snake River at Highway 27, at Burley	651.6		8540	7/25/2002	0735	191	(0)
			total estimated inflow	35				
			total estimated outflow	8199				
			estimated outflow to storage in					
			Milner Lake ¹	0				
L4	Snake River at Milner (13088000)	638.7		238	7/25/2002	1345	53	2
				247	7/24/2002	0815		
			total estimated inflow	0				
			total estimated outflow	0				
L5	Snake River above Murtaugh Bridge, near Murtaugh	630.5		295	7/24/2002	1210	48	6
			total estimated inflow	1				
			total estimated outflow	0				
16	Snake River near Kimberly (13000000)	617.2		578	7/24/2002	1645	282	21
Lo	Shake Kiver hear Kimberry (15090000)	017.2		581	7/24/2002	1130		
			total estimated inflow	0				
			total estimated outflow	0				
L7	Snake River above Shoshone Falls, near Kimberly	615.2		725	7/24/2002	1228	144	72
			total estimated inflow	18				
			total estimated outflow	0				
L8	Snake River below Perrine Bridge, at Twin Falls	611.0		732	7/24/2002	1504	(11)	(2)
			total estimated inflow	235				
			total estimated outflow	0				

Table A16. Estimates of streamflow gains and losses in specified subreaches of the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, July 24-25, 2002

[ft³/s, cubic feet per second; mi, mile; ---, no data; estimated gain/loss presented across from the downstream site; values in **boldface** are statistically significant]

Site number							Total gain or	Gain or (loss)
(see	Gaging-station name (number) or	River		Discharge			(loss)	per mile
figure 3)	intermediate measurement site	mile		(ft ³ /s)	Date	Time	(ft ³ /s)	(ft ³ /s/mi)
L9	Snake River above Crystal Springs, near Buhl	601.1		1310	7/24/2002	1719	343	35
			total estimated inflow	68				
			total estimated outflow	0				
I 10	Snake River near Buhl (13094000)	596.8		2000	7/24/2002	1930	622	145
LIU	Shake River hear Dani (15094000)	570.0		2040	7/25/2002	1315		
			total estimated inflow	6				
			total estimated outflow	0				
L11	Snake River below Clear Lakes outlet, near Buhl	592.8		2430	7/25/2002	1509	384	96
			total estimated inflow	78				
			total estimated outflow	0				
L12	Snake River above Banbury Springs, near Hagerman	589.2		2770	7/25/2002	1100	262	73
			total estimated inflow	83				
			total estimated outflow	0				
L13	Snake River above Thousand Springs, near Hagerman	585.6		3720	7/25/2002	1014	867	241
			total estimated inflow	3				
			total estimated outflow	0				
L14	Snake River below Thousand Springs, near Hagerman	582.9		4710	7/25/2002	0939	987	365
			total estimated inflow	50				
			total estimated outflow	0				
L15	Snake River above Lower Salmon Falls Power Plant, near Bliss	576.8		4760	7/25/2002	1300	0	0
			total estimated inflow	20				
			total estimated outflow	0				
			estimated outflow to storage above Lower Salmon Falls					
			Power Plant ²	0				
110	Snake River below Lower Salmon Falls, near Hagerman	570 F		4980	7/25/2002	1500	200	47
L16	(13135000)	572.5		5000	7/25/2002	0730		
			total estimated inflow	1177				
			total estimated outflow	0				
L17	Snake River above Bliss Dam, near Bliss	564.9		6310	7/25/2002	1110	133	18
			total estimated inflow	18				

Table A16. Estimates of streamflow gains and losses in specified subreaches of the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, July 24-25, 2002--Continued

Site number (see figure 3)	<i>Gaging-station name (number)</i> or intermediate measurement site	River mile		Discharge (ft ³ /s)	Date	Time	Total gain or (loss) (ft ³ /s)	Gain or (loss) per mile (ft ³ /s/mi)
			total estimated outflow	0				
			above Bliss Dam ²	0				
T 18	Snake River below Rlies Dam near Rlies (13153776)	550 1		6330	7/25/2002	1400	3	0
L10	Shuke River below Buss Dun, neur Buss (15155770)	559.1		6330	7/25/2002	1330		
			total estimated inflow	0				
			total estimated outflow	0				
L19	Snake River above Bancroft Springs, near King Hill	553.2		6310	7/25/2002	1510	(20)	(3)
			total estimated inflow	13				
			total estimated outflow	0				
L20	Snake River at King Hill (13154500)	546.6		6780	7/25/2002	1630	457	69

Table A16. Estimates of streamflow gains and losses in specified subreaches of the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, July 24-25, 2002--Continued

¹ Estimate based on reservoir-stage data (USGS station number 13087900).

² Estimate based on reservoir-stage data (Idaho Power Company).

able A17. Discharge data from gaging stations along the Snake River between near Minidoka and at
(ing Hill, Idaho, July 24-25, 2002

Site number (see figure A20)	Gaging-station name (number)	Date	Time	Discharge (ft ³ /s)
L1	Snake River near Minidoka (13081500)	7/25/2002	0200	8650
L4	Snake River at Milner (13088000)	7/25/2002 7/24/2002	1345 0815	238 247
L6	Snake River near Kimberly (13090000)	7/24/2002 7/24/2002	1645 1130	578 581
L10	Snake River near Buhl (13094000)	7/24/2002 7/25/2002	1930 1315	2000 2040
L16	Snake River below Lower Salmon Falls, near Hagerman (13135000)	7/25/2002 7/25/2002	1500 0730	4980 5000
L18	Snake River below Bliss Dam, near Bliss (13153776)	7/25/2002 7/25/2002	1400 1330	6330 6330
L20	Snake River at King Hill (13154500)	7/25/2002	1630	6780

[ft³/s, cubic feet per second]

Table A18. Discharge data from acoustic Doppler measurements along the Snake River between thenear Minidoka and at King Hill gaging stations, Idaho, July 24-25, 2002

Site number	•				
(see figure				Discharge	
A20)	Intermediate measurement site	Date	Time	(ft ³ /s)	COV ([°] / _µ)
L2	Snake River at Highway 77(25) near Rupert	7/25/2002	0630	8320	0.01
L3	Snake River at Highway 27 at Burley	7/25/2002	0735	8540	.03
L5	Snake River above Murtaugh Bridge at Murtaugh	7/24/2002	1210	295	.09
L7	Snake River above Shoshone Falls near Kimberly	7/24/2002	1228	725	.11
L8	Snake River below Perrine Bride at Twin Falls	7/24/2002	1504	732	.04
L9	Snake River above Crystal Springs near Buhl	7/24/2002	1719	1310	.06
L11	Snake River below Clear Lakes outlet near Buhl	7/25/2002	1509	2430	.02
L12	Snake River above Banbury Springs near Hagerman	7/25/2002	1100	2770	.07
L13	Snake River above Thousand Springs near Hagerman	7/25/2002	1014	3720	.05
L14	Snake River below Thousand Springs near Hagerman	7/25/2002	0939	4710	.02
L15	Snake River above Lower Salmon Falls Power Plant near Bliss	7/25/2002	1300	4760	.05
L17	Snake River above Bliss Dam near Bliss	7/25/2002	1110	6310	.02
L19	Snake River above Bancroft Springs near King Hill	7/25/2002	1510	6310	.02

 $[ft^3\!/\!s,$ cubic feet per second; COV, coefficient of variation; $\sigma,$ standard deviation; $\mu,$ mean]

Table A19. Discharge data for all inspected inflow and outflow sites along the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, July 24-25, 2002

[Latitude and longitude in degrees, minutes, seconds referenced in North American Datum of 1983; ft^3/s , cubic feet per second; site numbers shown in figure A20; ---, no data; DM, daily mean discharge; values in shaded areas indicate canal withdrawals]

	Gaging-					
	station	Loc	ation			Discharge
Inspection site name	number	Latitude	Longitude	Date	Time	(ft ³ / s)
	Subreach betwee	en site numbers	L1 and L2			
F Drain near Declo	13082060	42 32 48	113 37 14	7/25/2002		17.8
D-3 Drain near Declo	13082032	42 36 49	113 36 10	7/25/2002		6.5
	Subreach betwee	en site numbers	L2 and L3			
D-5 Drain near Rupert	13082062	42 33 15	113 38 38	7/25/2002		5.3
D-4 Drain near Rupert	13082064	42 34 15	113 38 25	7/25/2002		7.5
Marsh Creek near Declo ¹	13082320	42 31 26	113 40 02	7/25/2002		10.0
Spring Creek near Declo ¹	13082330	42 31 01	113 41 03	7/25/2002		0
D-16 Drain near Heyburn	13084705	42 32 30	113 45 24	7/25/2002		6.5
	Subreach betwee	en site numbers	L3 and L4			
B Drain near Heyburn	13084707	42 33 33	113 47 01	7/25/2002		4.3
D-17 Drain near Heyburn	13085060	42 32 53	113 50 51	7/25/2002		4
Main Drain North near Heyburn	13085065	42 33 02	113 51 59	7/25/2002		13.1
G Drain near Burley	13085070	42 31 56	113 53 12	7/25/2002		12.9
J Drain near Burley	13085080	42 31 53	113 53 29	7/25/2002		.2
A&B Irrigation Pump near Milner	13085500	42 32 01	113 56 51	7/25/2002	DM	177
PA Lateral Pump near Milner	13085800	42 32 02	113 58 19	7/25/2002	DM	62
Milner Irrigation Pump near Milner	13086000	42 31 10	114 00 38	7/25/2002	DM	237
Northside A Lateral near Milner	13086510	42 32 17	114 02 40	7/25/2002	DM	54
Northside Crosscut Canal near Milner	13086520	42 33 31	114 03 08	7/25/2002	DM	659
Milner-Gooding Canal near Milner	13086530	42 33 39	114 02 59	7/25/2002	DM	1440
North Side Main Canal near Milner	13087000	42 31 46	114 01 10	7/25/2002	DM	2350
Twin Falls Main Canal near Milner	13087500	42 31 18	114 01 03	7/25/2002	DM	3220
	Subreach betwee	en site numbers	L4 and L5	1123/2002	DIM	3220
	Subreach betwee	en site numbers	L5 and L6			
Miscellaneous agriculture return near Hansen	13089690	A2 33 55	114 19 24	7/23/2002	1730	1
Twin Falls Coulee near Hansen	13089695	42 33 33	114 19 24	7/23/2002	1700	2
Devil's Washbowl Spring near Kimberly	13089093	42 34 11	114 20 32	7/24/2002	1700	.2
Devirs washoowr spring hear Kiniberry	Subreach betwee	42 33 18	114 20 45			
Davil's Corral Springs page Kimberly	12000100	42 25 29	114 21 55			
Devirs Contai Springs near Kninberry	Subreach betwee	42 33 38	114 21 33			
Fish Hatchery Waste O pear Twin Falls	12000270	42 25 21	114 26 05	7/24/2002	0045	16.5
Mary Alice Lake discharge near Twin Fells	13090370	42 33 31	114 26 03	7/24/2002	1700	10.5
Mary Ance Lake discharge hear Twin Fans	 Subassch hetwo	42 33 40	114 20 31	7/24/2002	1700	1
Domine Coules neer Twin Falls	12000460		114 28 20	7/24/2002	1900	² 2
Perrine Coulee near Twin Falls	13090460	42 35 53	114 28 20	//24/2002	1800	3
Blue Lakes Outlet near Twin Falls	13091500	42 36 30	114 28 34			
Warm Creek near Twin Falls	13091700 ³ 12002747	42 37 15	114 29 55	7/25/2002		30
Rock Creek above Highway 30/93 at Twin Falls	13092747	42 33 47	114 29 42	7/25/2002	DM	90
Jerome Golf Course Drain I	13091/33	42 38 03	114 31 02	7/25/2002	0800	4.8
Miscellaneous agriculture return near Twin Falls		42 37 21	114 33 23	7/25/2002		15
Sonnickson Drain near Twin Falls	13093150	42 38 40	114 33 26	7/24/2002		35
Miscellaneous agriculture return near Twin Falls		42 38 23	114 33 32			
Miscellaneous agriculture return near Twin Falls		42 37 36	114 34 29	7/25/2002	1520	16.6
Sucker Flat Drain near Filer	13093190	42 38 25	114 35 30	7/25/2002	0700	40
Miscellaneous agriculture return near Filer		42 37 51	114 35 41			
Miscellaneous agriculture return near Filer		42 38 54	114 36 58	7/25/2002	1315	3

Table A19. Discharge data for all inspected inflow and outflow sites along the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, July 24-25, 2002--Continued

	Gaging-								
	station	Loc	cation			Discharge			
Inspection site name	number	Latitude	Longitude	Date	Time	(ft ³ /s)			
	Subreach between	n site numbers	L9 and L10						
Miscellaneous agriculture return near Filer		42 39 17	114 38 16	7/25/2002	1235	3			
Crystal Springs near Filer	13093400	42 39 36	114 38 32						
Cedar Draw near Filer	13093550	42 39 13	114 39 15	7/24/2002	DM	56			
Miscellaneous agriculture return near Buhl		42 39 31	114 40 42	7/25/2002	1005	2.6			
Waste I near Buhl	13093900	42 39 33	114 41 28	7/25/2002	1300	6.7			
	Subreach between	a site numbers I	L10 and L11						
Miscellaneous agriculture return near Buhl		42 40 03	114 43 10	7/24/2002	1625	1			
Miscellaneous agriculture return near Buhl		42 40 07	114 44 18	7/24/2002	1550	5			
J8 Drain near Buhl		42 40 27	114 44 27						
Clear Lakes Outlet near Buhl	13094500	42 40 01	114 46 45						
Subreach between site numbers L11 and L12									
Mud Creek near Buhl ¹	13094700	42 39 33	114 47 20	7/25/2002	DM	21			
Deep Creek near Buhl ¹		42 39 29	114 48 38	7/25/2002	0825	57			
Briggs Creek Spring near Buhl	13095200	42 40 20	114 49 00						
Subreach between site numbers L12 and L13									
Irrigation Ditch to Blind Canyon near Buhl	13095490	42 42 28	114 47 30	7/25/2002	DM	25.2			
South Coulee (Cedar Draw) near Buhl	13095360	42 41 46	114 48 19	7/26/2002	0800	3.7			
Box Canyon Springs near Wendell	³ 13095500	42 42 29	114 48 35						
Blind Canyon Spring near Buhl	13095400	42 42 12	114 49 20						
Unnamed Spring near Buhl	13095350	42 41 51	114 49 21						
Salmon Falls Creek near Hagerman	³ 13108150	42 41 47	114 51 15	7/25/2002	DM	54			
	Subreach between	a site numbers I	L13 and L14						
Sand Springs near Hagerman	13132600	42 43 36	114 50 00						
Drain near Bickel Springs near Hagerman	13133785	42 45 28	114 50 48	7/25/2002	1800	3.2			
Bickel Spring near Hagerman	13132790	42 45 29	114 51 19						
	Subreach between	site numbers I	L14 and L15						
Riley Creek near Hagerman	13133800	42 45 50	114 51 40	7/24/2002		50			
	Subreach between	a site numbers I	L15 and L16						
Billingsly Creek near Hagerman	13134600	42 46 44	114 51 22	7/24/2002		20			
	Subreach between	a site numbers I	L16 and L17						
W Drain near Tuttle	13152895	42 51 50	114 51 58	7/26/2002	1000	1.5			
Birch Creek near Hagerman	13135100	42 51 10	114 53 30	7/23/2002	1120	7.2			
Malad Power Flume near Bliss	³ 13152940	42 51 54	114 53 11	7/25/2002	DM	1080			
Malad River near Bliss	³ 13153500	42 51 48	114 54 04	7/25/2002	DM	88			
	Subreach between	site numbers I	L17 and L18						
Tuana Gulch near Bliss		42 54 34	115 00 02	7/22/2002	1430	1			
Irrigation Ditch near Bliss	13152450	42 55 56	115 00 19	7/25/2002	DM	17			
	Subreach between	site numbers I	L18 and L19						
	Subreach between	a site numbers I	L19 and L20						
Clover Creek near Bliss	13154000	43 01 30	115 00 20	7/22/2002	1225	13			

¹ Combined spring discharge and agriculture return flows; springflow was subtracted from field-measured value to obtain an approximate agriculture return-flow value.

² Streamflow resulting from spring discharge; not used in calculation of gain/loss estimates.

³ Long-term United States Geological Survey or Idaho Power Company gaging station.

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Figure A20. Streamflow gains and losses along the lower reach of the Snake River, between the near Minidoka and at King Hill gaging stations, southeastern Idaho, July 24–25, 2002.

Site number (see figure 3)	Gaging-station name (number) or intermediate measurement site	River mile		Discharge (ft ³ /s)	Date	Time	Total gain or (loss) (ft ³ /s)	Gain or (loss) per mile (ft ³ /s/mi)
L1	Snake River near Minidoka (13081500)	673.5		600	11/6/2002	1000		
			total estimated inflow	1				
			total estimated outflow	0				
L2	Snake River at Highway 77(25), near Rupert	664.0		512	11/6/2002	1436	(89)	(9)
			total estimated inflow	10				
			total estimated outflow	0				
			estimated outflow to storage in					
			Milner Lake ¹	0				
L3	Snake River at Highway 27, at Burley	651.6		465	11/6/2002	1621	(57)	(5)
			total estimated inflow	16				
			total estimated outflow	0				
			estimated outflow to storage in Milnor Labo ¹	0				
			winner Lake	446	11/6/2002	2230	(02)	(7)
L4	Snake River at Milner (13088000)	638.7		440	11/7/2002	0330	()2)	(7)
			total estimated inflow	-+-3	11/7/2002	0550		
			total estimated outflow	0				
1.5	Snake River above Murtaugh Bridge, near Murtaugh	630.5		479	11/7/2002	0731	36	4
20	Shale Miles above Manager Shage, near Manager	00010	total estimated inflow	0	11,72002	0751	00	·
			total estimated outflow	0				
				758	11/7/2002	1400	279	21
L6	Snake River near Kimberly (13090000)	617.2		713	11/6/2002	1015		
			total estimated inflow	0				
			total estimated outflow	0				
L7	Snake River above Shoshone Falls, near Kimberly	615.2		704	11/6/2002	1121	(9)	(5)
			total estimated inflow	16				
			total estimated outflow	0				
L8	Snake River below Perrine Bridge, at Twin Falls	611.0		864	11/7/2002	1419	144	34
	-		total estimated inflow	154				
			total estimated outflow	0				

Table A21. Estimates of streamflow gains and losses in specified subreaches of the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, November 6-8, 2002

[ft³/s, cubic feet per second; mi, mile; ---, no data; estimated gain/loss presented across from the downstream site; values in **boldface** are statistically significant]

Site							Total	~ ~ ~ `
number				Dischange			gain or	Gain or (loss)
(see	Gaging-station name (number) or	River		Discharge	D (T .	(10SS)	per mile
figure 3)	intermediate measurement site	mile		(ft ⁻ /s)	Date	Time	(ft ⁻ /s)	(ft [*] /s/mi)
L9	Snake River above Crystal Springs, near Buhl	601.1		1160	11/6/2002	1432	142	14
			total estimated inflow	61				
			total estimated outflow	0				
L10	Snake River near Buhl (13094000)	596.8		1930	11/6/2002	1645	709	165
				2040	11/7/2002	0915		
			total estimated inflow	3				
			total estimated outflow	0				
L11	Snake River below Clear Lakes outlet, near Buhl	592.8		2610	11/7/2002	1112	568	142
			total estimated inflow	78				
			total estimated outflow	0				
L12	Snake River above Banbury Springs, near Hagerman	589.2		2600	11/7/2002	1058	(88)	(24)
			total estimated inflow	166				
			total estimated outflow	0				
L13	Snake River above Thousand Springs, near Hagerman	585.6		3770	11/7/2002	1141	1,005	279
			total estimated inflow	0				
			total estimated outflow	0				
L14	Snake River below Thousand Springs, near Hagerman	582.9		4920	11/7/2002	1212	1,150	426
			total estimated inflow	87				
			total estimated outflow	0				
L15	Snake River above Lower Salmon Falls Power Plant, near Bliss	576.8		5110	11/7/2002	1343	103	17
			total estimated inflow	30				
			total estimated outflow	0				
			estimated outflow to storage					
			above Lower Salmon Falls					
			Power Plant ²	230				
I 16	Snake River below Lower Salmon Falls, near Hagerman	572 5		5140	11/7/2002	1600	230	54
L10	(13135000)	572.5		5020	11/6/2002	1700		
			total estimated inflow	1122				
			total estimated outflow	0				
L17	Snake River above Bliss Dam, near Bliss	564.9		3				
			total estimated inflow	1				

Table A21. Estimates of streamflow gains and losses in specified subreaches of the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, November 6-8, 2002--Continued

Site number (see figure 3)	<i>Gaging-station name (number)</i> or intermediate measurement site	River mile		Discharge (ft ³ /s)	Date	Time	Total gain or (loss) (ft ³ /s)	Gain or (loss) per mile (ft ³ /s/mi)
			total estimated outflow	0				
			above Bliss Dam ²	400				
T 18	Snaka River helow Blies Dam, near Blies (13153776)	559.1		6120	11/7/2002	0030	377	28
LIO	Shake River below bitss Dam, near bitss (15155770)	559.1		6480	11/8/2002	1500		
			total estimated inflow	0				
			total estimated outflow	0				
L19	Snake River above Bancroft Springs, near King Hill	553.2		4				
			total estimated inflow	5				
			total estimated outflow	0				
L20	Snake River at King Hill (13154500)	546.6		6290	11/8/2002	2115	(195)	(16)

Table A21. Estimates of streamflow gains and losses in specified subreaches of the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, November 6-8, 2002--Continued

¹ Estimate based on reservoir-stage data (USGS station number 13087900).

² Estimate based on reservoir-stage data (Idaho Power Company).

³ Discharge was measured but not used in the calculations because of questionable accuracy (see table A23).

⁴ Discharge was not measured because of river or weather conditions.

Table A22. Discharge data from gaging stations along the Snake River between near Minidoka and at
King Hill, Idaho, November 6-8, 2002

[ft ³ /s, cubic feet po	er second]
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Site number				Disahanga
(see figure A25)	Gaging-station name (number)	Date	Time	(ft ³ /s)
L1	Snake River near Minidoka (13081500)	11/6/2002	1000	600
L4	Snake River at Milner (13088000)	11/6/2002 11/7/2002	2230 0330	446 443
L6	Snake River near Kimberly (13090000)	11/7/2002 11/6/2002	1400 1015	758 713
L10	Snake River near Buhl (13094000)	11/6/2002 11/7/2002	1645 0915	1930 2040
L16	Snake River below Lower Salmon Falls, near Hagerman (13135000)	11/7/2002 11/6/2002	1600 1700	5140 5020
L18	Snake River below Bliss Dam, near Bliss (13153776)	11/7/2002 11/8/2002	0030 1500	6120 6480
L20	Snake River at King Hill (13154500)	11/8/2002	2115	6290

Table A23. Discharge data from acoustic Doppler measurements along the Snake River between the
near Minidoka and at King Hill gaging stations, Idaho, November 6-8, 2002

Site number	ſ				
(see figure				Discharge	
A25)	Intermediate measurement site	Date	Time	(ft ³ /s)	COV (^σ / _μ)
L2	Snake River at Highway 77(25) near Rupert	11/6/2002	1436	512	0.04
L3	Snake River at Highway 27 at Burley	11/6/2002	1621	465	.27
L5	Snake River above Murtaugh Bridge at Murtaugh	11/7/2002	0731	479	.05
L7	Snake River above Shoshone Falls near Kimberly	11/6/2002	1121	704	.10
L8	Snake River below Perrine Bride at Twin Falls	11/7/2002	1419	864	.08
L9	Snake River above Crystal Springs near Buhl	11/6/2002	1432	1160	.04
L11	Snake River below Clear Lakes outlet near Buhl	11/7/2002	1112	2610	.10
L12	Snake River above Banbury Springs near Hagerman	11/7/2002	1058	2600	.12
L13	Snake River above Thousand Springs near Hagerman	11/7/2002	1141	3770	.02
L14	Snake River below Thousand Springs near Hagerman	11/7/2002	1212	4920	.01
L15	Snake River above Lower Salmon Falls Power Plant near Bliss	11/7/2002	1343	5110	.05
L17	Snake River above Bliss Dam near Bliss	11/8/2002	1211	¹ 6680	.02
L19	Snake River above Bancroft Springs near King Hill	2			

[ft³/s, cubic feet per second; COV, coefficient of variation; σ , standard deviation; μ , mean; ---, no data]

¹ Accuracy is questionable because of backwater effects probable changes in channel storage.

² Unable to access measurement site because of unsafe river conditions.

Table A24. Discharge data for all inspected inflow and outflow sites along the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, November 4-8, 2002

[Latitude and longitude in degrees, minutes, seconds referenced in North American Datum of 1983; ft³/s, cubic feet per second; site numbers shown in figure A25; ---, no data; DM, daily mean discharge; values in shaded areas indicate canal withdrawals]

	Gaging-					Discharge
-	station	Loc	ation		-	Discharge
Inspection site name	number	Latitude	Longitude	Date	Time	(ft /s)
	Subreach betwee	en site numbers	L1 and L2	11/6/2002		0
F Drain near Declo	13082060	42 32 48	113 3/ 14	11/6/2002		0
D-3 Drain hear Decio	13082032	42 36 49	113 36 10	11/4/2002	1600	1.3
D. 5 Daria area Danart	Subreach betwee	an site numbers	L2 and L3	11/5/2002	1400	1
D-5 Drain near Rupert	13082062	42 33 15	113 38 38	11/5/2002	1400 DM	1
D-4 Drain hear Rupert	13082004	42 34 15	113 38 25	11/4/2002	DM	3 110.2
Marsh Creek hear Declo	13082320	42 31 26	113 40 02	11/5/2002	DM	10.2
Spring Creek near Decio	13082330	42 31 01	113 41 03	11/5/2002	DM	6.4
D-10 Drain near Heyburn	13084705	42 32 30	113 45 24	11/4/2002	DM	5.7
D Daria a can Hasham	Subreach betwee	en site numbers	L3 and L4	11/6/2002		0
B Drain near Heydurn	13084707	42 33 33	113 47 01	11/6/2002		0
D-17 Drain near Heyburn	13085060	42 32 53	113 50 51	11/5/2002	DM	1.3
C Durin near Durley	13085065	42 33 02	113 51 59	11/5/2002	DM	14.6
G Drain near Burley	13085070	42 31 56	113 53 12	11/6/2002		0
J Drain near Burley	13085080	42 31 53	113 53 29	11/6/2002		0
A&B Irrigation Pump hear Milner	13085500	42 32 01	113 56 51	11/6/2002	DM	0
PA Lateral Pump near Milner	13085800	42 32 02	113 58 19	11/6/2002	DM	0
Milner Irrigation Pump near Milner	13086000	42 31 10	114 00 38	11/6/2002	DM	0
Northside A Lateral near Milner	13086510	42 32 17	114 02 40	11/6/2002	DM	0
Northside Crosscut Canal near Milner	13086520	42 33 31	114 03 08	11/6/2002	DM	0
Milner-Gooding Canal near Milner	13086530	42 33 39	114 02 59	11/6/2002	DM	0
North Side Main Canal near Milner	13087000	42 31 46	114 01 10	11/6/2002	DM	0
Twin Falls Main Canal near Milner	13087500	42 31 18	114 01 03	11/6/2002	DM	0
	Subreach betwee	en site numbers	L4 and L5			
	Subreach betwee	en site numbers	L5 and L6			
Miscellaneous agriculture return near Hansen	13089690	42 33 55	114 19 24	11/6/2002		0
Twin Falls Coulee near Hansen	13089695	42 34 11	114 20 32	11/6/2002		0
Devil's Washbowl Spring near Kimberly	13089600	42 35 18	114 20 45			
	Subreach betwee	en site numbers	L6 and L7			1
Devil's Corral Springs near Kimberly	13090100	42 35 38	114 21 55			
	Subreach betwee	en site numbers	L7 and L8			
Fish Hatchery Waste O near Twin Falls	13090370	42 35 31	114 26 05	11/8/2002	1510	15
Mary Alice Lake discharge near Twin Falls		42 35 46	114 26 51	11/8/2002	1430	1
	Subreach betwee	en site numbers l	L8 and L9			1
Perrine Coulee near Twin Falls	13090460	42 35 53	114 28 20	11/6/2002	1100	1.8
Blue Lakes Outlet near Twin Falls	13091500	42 36 30	114 28 34			1
Warm Creek near Twin Falls	13091700	42 37 15	114 29 55	11/8/2002	1300	25
Rock Creek above Highway 30/93 at Twin Falls	² 13092747	42 33 47	114 29 42	11/7/2002	DM	70
Jerome Golf Course Drain 1	13091733	42 38 03	114 31 02	11/8/2002	1345	0
Miscellaneous agriculture return near Twin Falls		42 37 21	114 33 23	11/8/2002	1220	0
Sonnickson Drain near Twin Falls	13093150	42 38 40	114 33 26	11/6/2002		0
Miscellaneous agriculture return near Twin Falls		42 38 23	114 33 32	11/8/2002	1335	0
Miscellaneous agriculture return near Twin Falls		42 37 36	114 34 29	11/8/2002	1225	13.0
Sucker Flat Drain near Filer	13093190	42 38 25	114 35 30	11/6/2002	1430	31
Miscellaneous agriculture return near Filer		42 37 51	114 35 41	11/8/2002	1210	10
Miscellaneous agriculture return near Filer		42 38 54	114 36 58	11/8/2002	1145	5.0

Table A24. Discharge data for all inspected inflow and outflow sites along the Snake River between the near Minidoka and at King Hill gaging stations, Idaho, November 4-8, 2002--Continued

	Gaging-								
	station	Loc	ation			Discharge			
Inspection site name	number	Latitude	Longitude	Date	Time	(ft ³ /s)			
	Subreach between	n site numbers I	L9 and L10						
Miscellaneous agriculture return near Filer		42 39 17	114 38 16	11/8/2002	120	2			
Crystal Springs near Filer	13093400	42 39 36	114 38 32			1			
Cedar Draw near Filer	13093550	42 39 13	114 39 15	11/8/2002	1030	44			
Miscellaneous agriculture return near Buhl		42 39 31	114 40 42	11/8/2002	950	1			
Waste I near Buhl	13093900	42 39 33	114 41 28	11/8/2002	908	14.3			
Subreach between site numbers L10 and L11									
Miscellaneous agriculture return near Buhl		42 40 03	114 43 10	11/8/2002	850	0.5			
Miscellaneous agriculture return near Buhl		42 40 07	114 44 18	11/8/2002	840	2			
J8 Drain near Buhl		42 40 27	114 44 27	11/8/2002	840	0			
Clear Lakes Outlet near Buhl	13094500	42 40 01	114 46 45			1			
	Subreach between	site numbers L	11 and L12						
Mud Creek near Buhl ³	13094700	42 39 33	114 47 20	11/5/2002	1500	58			
Deep Creek near Buhl ³		42 39 29	114 48 38	11/5/2002	1300	20			
Briggs Creek Spring near Buhl	13095200	42 40 20	114 49 00			1			
	Subreach between	site numbers L	12 and L13						
Irrigation Ditch to Blind Canyon near Buhl	13095490	42 42 28	114 47 30	11/7/2002		0			
South Coulee (Cedar Draw) near Buhl	13095360	42 41 46	114 48 19	11/7/2002	830	3.5			
Box Canyon Springs near Wendell	² 13095500	42 42 29	114 48 35			1			
Blind Canyon Spring near Buhl	13095400	42 42 12	114 49 20			1			
Unnamed Spring near Buhl	13095350	42 41 51	114 49 21			1			
Salmon Falls Creek near Hagerman	² 13108150	42 41 47	114 51 15	11/5/2002	1145	162			
	Subreach between	site numbers L	13 and L14						
Sand Springs near Hagerman	13132600	42 43 36	114 50 00			1			
Drain near Bickel Springs near Hagerman	13133785	42 45 28	114 50 48	11/7/2002		0			
Bickel Spring near Hagerman	13132790	42 45 29	114 51 19			1			
	Subreach between	site numbers L	14 and L15						
Riley Creek near Hagerman	13133800	42 45 50	114 51 40	11/5/2002	1010	87			
	Subreach between	site numbers L	15 and L16						
Billingsly Creek near Hagerman	13134600	42 46 44	114 51 22	11/4/2002	1600	29.9			
	Subreach between	site numbers L	16 and L17						
W Drain near Tuttle	13152895	42 51 50	114 51 58	11/8/2002		0			
Birch Creek near Hagerman	13135100	42 51 10	114 53 30	11/4/2002	1423	11.9			
Malad Power Flume near Bliss	² 13152940	42 51 54	114 53 11	11/4/2002	1352	1000			
Malad River near Bliss	² 13153500	42 51 48	114 54 04	11/4/2002	1335	110			
	Subreach between	site numbers L	17 and L18						
Tuana Gulch near Bliss		42 54 34	115 00 02	11/4/2002	1230	1			
Irrigation Ditch near Bliss	13152450	42 55 56	115 00 19	11/8/2002		0			
	Subreach between	site numbers L	18 and L19						
	Subreach between	site numbers L	19 and L20						
Clover Creek near Bliss	13154000	43 01 30	115 00 20	11/4/2002	1100	5			

¹ Streamflow resulting from spring discharge; not used in calculation of gain/loss estimates.

² Long-term United States Geological Survey or Idaho Power Company gaging station.

³ Combined spring discharge and agriculture return flows; springflow was subtracted from field-measured value to obtain an approximate agriculture return-flow value.

EXPLANATION



Figure A25. Streamflow gains and losses along the lower reach of the Snake River, between the near Minidoka and at King Hill gaging stations, southeastern Idaho, November 4–8, 2002.