IDAHO SURFACE WATER SUPPLY INDEX (SWSI) **August 1, 2016**

The Surface Water Supply Index (SWSI) is a predictive indicator of surface water availability within a watershed for the spring and summer water use season. The index is calculated by combining pre-runoff reservoir storage (carryover) with forecasts of spring and summer streamflow. SWSI values are scaled from +4.0 (abundant supply) to -4.0 (extremely dry), with a value of zero indicating a median water supply as compared to historical occurrences. The SWSI analysis period is from 1981 to present.

SWSI values provide a more comprehensive outlook of water availability by combining streamflow forecasts and reservoir storage where appropriate. The SWSI index allows comparison of water availability between basins for drought or flood severity analysis. Threshold SWSI values have been determined for some basins to indicate the potential for agricultural irrigation water shortages.

BASIN or REGION	*SWSI Value*	*Most Recent Year With Similar SWSI Value*	*Agricultural Water Supply Shortage May Occur When SWSI is Less Than*
Northern Panhandle	NA	NA	NA
Spokane	-3.1	2007	NA
Clearwater	-3.1	2007	NA
Salmon	-2.7	2015	NA
Weiser	-1.7	2014	NA
Payette	-2.4	2003	NA
Boise	-0.8	2015	NA
Big Wood	0.3	2010	NA
Little Wood	0.3	2012	NA
Big Lost	0.6	2012/2005	NA
Little Lost	-1.0	2006	NA
Teton	-3.6	2007	NA
Henrys Fork	NA	NA	NA
Snake (Heise)	-1.5	1985	NA
Oakley	-0.8	2013	NA
Salmon Falls	0.6	2010	NA
Bruneau	-0.3	2008	NA
Owyhee	-0.6	2007	NA
Bear River	-0.6	2015	NA

SWSI SCALE, PERCENT CHANCE OF EXCEEDANCE, AND INTERPRETATION

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 -4      -3      -2      -1       0       1       2       3       4
  |------|------|------|------|------|------|------|------|
 99%     87%     75%     63%     50%     37%     25%     13%     1%
-----------------------------------------------------------------------
|Much    | Below      |        Near Normal        |  Above    |  Much  |
|Below   | Normal     |        Water Supply       |  Normal   |  Above |
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NA=Not Available / Not Applicable; Note: The Percent Chance of Exceedance is an indicator of how often a range of SWSI values might be expected to occur. Each SWSI unit represents about 12% of the historical occurrences. As an example of interpreting the above scale, the SWSI can be expected to be greater than -3.0, 87% of the time and less than -3.0, 13% of the time. Half the time, the SWSI will be below and half the time above a value of zero. The interval between -1.5 and +1.5 described as "Near Normal Water Supply," represents three SWSI units and would be expected to occur about one-third (36%) of the time.

Bear River Basin SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
10046500	Bear River at Stewart Dam	Aug-Sep	strm	1981-2015	35	Units KAF
10055500	Bear Lake	31-Jul	resv	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	1983	SE	97	1284	1381	97%	3.9
2	1984	N	72	1271	1343	94%	3.7
3	1986	N	59	1275	1334	92%	3.5
4	1998	SE	54	1235	1289	89%	3.2
5	1997	N	50	1219	1269	86%	3.0
6	1999	SL	47	1218	1265	83%	2.8
7	1982	N	59	1195	1255	81%	2.5
8	2011	SL	54	1144	1198	78%	2.3
9	1985	N	18	1136	1155	75%	2.1
10	1987	N	16	958	974	72%	1.9
11	2012	LN	2	904	906	69%	1.6
12	1981	N	7	896	903	67%	1.4
13	2000	N	5	861	866	64%	1.2
14	1988	SE	4	828	833	61%	0.9
15	1996	N	21	811	832	58%	0.7
16	1989	SL	8	694	702	56%	0.5
17	2013	N	1	669	670	53%	0.2
18	2014	N	29	571	599	50%	0.0
19	2001	LN	1	597	598	47%	-0.2
20	2015	EN	12	571	583	44%	-0.5
2016 Streamflow Forecast		SE	12	565	577	43%	-0.6
21	1995	SE	33	527	560	42%	-0.7
22	1990	N	4	525	529	39%	-0.9
23	2010	EN	9	503	512	36%	-1.2
24	2009	N	16	492	508	33%	-1.4
25	2006	N	12	466	478	31%	-1.6
26	1993	EN	35	415	450	28%	-1.9
27	1991	N	15	396	411	25%	-2.1
28	2007	EN	3	369	372	22%	-2.3
29	2002	N	1	362	364	19%	-2.5
30	2008	N	11	353	364	17%	-2.8
31	2005	EN	14	323	337	14%	-3.0
32	1994	SE	2	291	293	11%	-3.2
33	1992	EN	3	213	216	8%	-3.5
34	2003	EN	2	137	139	6%	-3.7
35	2004	N	6	31	37	3%	-3.9

Big Lost River Basin SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
13127000	Big Lost R blw Mackay Reservoir	Aug-Sep	strm	1981-2015	35	Units KAF
13126000	Mackay Reservoir	31-Jul	resv	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	1984	N	64	44	108	97%	3.9
2	1983	SE	46	42	88	94%	3.7
3	1982	N	41	44	84	92%	3.5
4	1995	SE	41	43	84	89%	3.2
5	1998	SE	33	40	74	86%	3.0
6	1997	N	35	38	72	83%	2.8
7	2011	SL	26	41	68	81%	2.5
8	1993	EN	30	35	65	78%	2.3
9	1986	N	32	31	63	75%	2.1
10	1999	SL	31	31	62	72%	1.9
11	2009	N	28	35	62	69%	1.6
12	2010	EN	26	35	61	67%	1.4
13	2006	N	26	34	59	64%	1.2
14	2012	LN	24	32	56	61%	0.9
15	1985	N	38	17	55	58%	0.7
2016 Streamflow Forecast		SE	23.8	29	53	57%	0.6
16	1996	N	25	25	50	56%	0.5
17	2005	EN	23	26	49	53%	0.2
18	1987	N	24	24	47	50%	0.0
19	1991	N	22	24	47	47%	-0.2
20	2015	EN	22	22	45	44%	-0.5
21	1981	N	24	17	41	42%	-0.7
22	2008	N	21	18	40	39%	-0.9
23	1990	N	22	16	38	36%	-1.2
24	2013	N	20	16	36	33%	-1.4
25	2007	EN	21	13	35	31%	-1.6
26	2000	N	21	9	30	28%	-1.9
27	1989	SL	21	7	28	25%	-2.1
28	2014	N	18	9	27	22%	-2.3
29	1994	SE	19	8	27	19%	-2.5
30	1988	SE	19	2	20	17%	-2.8
31	2004	N	18	2	20	14%	-3.0
32	2001	LN	19	1	20	11%	-3.2
33	2003	EN	19	1	19	8%	-3.5
34	1992	EN	18	0	19	6%	-3.7
35	2002	N	17	0	17	3%	-3.9

Big Wood River Basin SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
13142500	Big Wood R blw Magic Reservoir	Aug-Sep	strm	1981-2015	35	Units KAF
13142000	Magic Reservoir	31-Jul	resv	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	1983	SE	41	184	225	97%	3.9
2	1995	SE	34	186	219	94%	3.7
3	1982	N	24	187	211	92%	3.5
4	1997	N	29	179	208	89%	3.2
5	1984	N	25	178	203	86%	3.0
6	1998	SE	19	176	196	83%	2.8
7	2006	N	21	165	185	81%	2.5
8	2011	SL	12	171	183	78%	2.3
9	1996	N	18	164	183	75%	2.1
10	1999	SL	19	162	181	72%	1.9
11	1993	EN	19	156	175	69%	1.6
12	1986	N	14	157	171	67%	1.4
13	2012	LN	15	136	151	64%	1.2
14	2009	N	13	136	148	61%	0.9
15	2010	EN	12	132	143	58%	0.7
16	1981	N	6	133	139	56%	0.5
2016 Streamflow Forecast		SE	9	124	133	54%	0.3
17	1985	N	19	111	130	53%	0.2
18	2000	N	10	116	126	50%	0.0
19	2005	EN	13	102	115	47%	-0.2
20	1989	SL	10	76	86	44%	-0.5
21	2008	N	13	60	72	42%	-0.7
22	1987	N	9	45	54	39%	-0.9
23	2007	EN	6	44	50	36%	-1.2
24	2003	EN	4	26	30	33%	-1.4
25	2004	N	7	15	22	31%	-1.6
26	2014	N	10	7	17	28%	-1.9
27	2015	EN	8	8	16	25%	-2.1
28	2013	N	9	6	15	22%	-2.3
29	1990	N	9	5	14	19%	-2.5
30	1991	N	7	6	14	17%	-2.8
31	2002	N	5	7	13	14%	-3.0
32	1994	SE	4	8	12	11%	-3.2
33	2001	LN	4	8	12	8%	-3.5
34	1988	SE	6	3	9	6%	-3.7
35	1992	EN	4	5	9	3%	-3.9

Boise River Basin SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
13202000	BOISE RIVER NEAR BOISE, ID	Aug-Sep	strm	1981-2015	35	Units KAF
13201500	LUCKY PEAK	31-Jul	resv	1981-2015	35	Units KAF
13194000	ARROWROCK	31-Jul	resv	1981-2015	35	Units KAF
13190000	ANDERSON RANCH	31-Jul	resv	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	1982	N	155	1008	1162	97%	3.9
2	1983	SE	175	985	1160	94%	3.7
3	1984	N	154	976	1130	92%	3.5
4	1997	N	159	961	1119	89%	3.2
5	1995	SE	129	989	1117	86%	3.0
6	1996	N	127	961	1088	83%	2.8
7	1998	SE	134	947	1082	81%	2.5
8	2011	SL	127	934	1061	78%	2.3
9	1999	SL	120	922	1041	75%	2.1
10	1986	N	131	904	1035	72%	1.9
11	1993	EN	131	898	1029	69%	1.6
12	2006	N	101	861	962	67%	1.4
13	2010	EN	97	857	954	64%	1.2
14	2009	N	97	848	945	61%	0.9
15	2008	N	92	847	939	58%	0.7
16	2012	LN	94	821	915	56%	0.5
17	2000	N	85	821	906	53%	0.2
18	1981	N	67	829	896	50%	0.0
19	1985	N	109	782	891	47%	-0.2
20	2014	N	104	766	869	44%	-0.5
21	2003	EN	90	756	847	42%	-0.7
2016 Streamflow Forecast		SE	75	724	799	40%	-0.8
22	1989	SL	84	703	787	39%	-0.9
23	2015	EN	83	701	784	36%	-1.2
24	2004	N	96	681	778	33%	-1.4
25	2005	EN	80	688	768	31%	-1.6
26	1990	N	78	602	680	28%	-1.9
27	2002	N	82	590	672	25%	-2.1
28	2007	EN	71	597	667	22%	-2.3
29	2013	N	76	528	604	19%	-2.5
30	1987	N	63	506	569	17%	-2.8
31	2001	LN	64	450	514	14%	-3.0
32	1991	N	78	415	493	11%	-3.2
33	1988	SE	66	402	468	8%	-3.5
34	1994	SE	68	366	434	6%	-3.7
35	1992	EN	53	149	201	3%	-3.9

Bruneau Basin SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
13168500	Bruneau R nr Hot Spring	Aug-Sep	strm	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	1984	N	31	0	31	97%	3.9
2	2011	SL	15	0	15	94%	3.7
3	1983	SE	15	0	15	92%	3.5
4	1995	SE	14	0	14	89%	3.2
5	1998	SE	14	0	14	86%	3.0
6	1982	N	13	0	13	83%	2.8
7	1997	N	12	0	12	81%	2.5
8	1986	N	12	0	12	78%	2.3
9	1985	N	11	0	11	75%	2.1
10	1993	EN	11	0	11	72%	1.9
11	1999	SL	10	0	10	69%	1.6
12	2005	EN	8.5	0	8.5	67%	1.4
13	2010	EN	8.0	0	8.0	64%	1.2
14	1996	N	8.0	0	8.0	61%	0.9
15	2009	N	8.0	0	8.0	58%	0.7
16	2014	N	7.6	0	7.6	56%	0.5
17	1991	N	7.5	0	7.5	53%	0.2
18	2006	N	7.2	0	7.2	50%	0.0
19	1989	SL	7.1	0	7.1	47%	-0.2
2016 Streamflow Forecast		SE	6.2	0	6.2	46%	-0.3
20	1988	SE	6.1	0	6.1	44%	-0.5
21	2008	N	6.1	0	6.1	42%	-0.7
22	2004	N	6.0	0	6.0	39%	-0.9
23	1990	N	5.9	0	5.9	36%	-1.2
24	2015	EN	5.4	0	5.4	33%	-1.4
25	2002	N	5.2	0	5.2	31%	-1.6
26	1987	N	5.1	0	5.1	28%	-1.9
27	2003	EN	5.0	0	5.0	25%	-2.1
28	1994	SE	4.9	0	4.9	22%	-2.3
29	2013	N	4.8	0	4.8	19%	-2.5
30	2007	EN	4.8	0	4.8	17%	-2.8
31	2000	N	4.7	0	4.7	14%	-3.0
32	1992	EN	4.6	0	4.6	11%	-3.2
33	1981	N	4.4	0	4.4	8%	-3.5
34	2012	LN	4.1	0	4.1	6%	-3.7
35	2001	LN	4.1	0	4.1	3%	-3.9

Clearwater R at Spalding SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
13342500	Clearwater R at Spalding	Aug-Sep	strm	1981-2015	35	Units KAF
13340950	Dworshak Reservoir	31-Jul	resv	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	1982	N	504	3466	3970	97%	3.9
2	1983	SE	461	3467	3928	94%	3.7
3	1984	N	473	3411	3884	92%	3.5
4	1985	N	557	3299	3856	89%	3.2
5	1981	N	377	3459	3836	86%	3.0
6	1986	N	362	3467	3829	83%	2.8
7	1991	N	368	3430	3798	81%	2.5
8	1990	N	332	3463	3795	78%	2.3
9	2011	SL	498	3215	3713	75%	2.1
10	1996	N	365	3263	3628	72%	1.9
11	1989	SL	318	3302	3620	69%	1.6
12	1987	N	194	3425	3619	67%	1.4
13	2008	N	454	3129	3583	64%	1.2
14	2004	N	603	2950	3553	61%	0.9
15	1995	SE	404	3116	3520	58%	0.7
16	1999	SL	441	3066	3507	56%	0.5
17	2002	N	393	3074	3467	53%	0.2
18	1997	N	584	2848	3432	50%	0.0
19	1993	EN	517	2892	3409	47%	-0.2
20	2010	EN	393	2994	3387	44%	-0.5
21	2014	N	356	3003	3359	42%	-0.7
22	2009	N	384	2971	3355	39%	-0.9
23	2012	LN	330	3020	3350	36%	-1.2
24	1988	SE	240	3066	3306	33%	-1.4
25	2000	N	350	2890	3240	31%	-1.6
26	2013	N	320	2918	3237	28%	-1.9
27	1998	SE	408	2818	3226	25%	-2.1
28	1992	EN	365	2859	3224	22%	-2.3
29	2005	EN	255	2959	3214	19%	-2.5
30	2006	N	294	2911	3205	17%	-2.8
31	2003	EN	286	2913	3199	14%	-3.0
2016 Streamflow Forecast		SE	250	2922	3172	13%	-3.1
32	2007	EN	242	2908	3150	11%	-3.2
33	2001	LN	283	2777	3060	8%	-3.5
34	2015	EN	242	2771	3013	6%	-3.7
35	1994	SE	261	1915	2176	3%	-3.9

Little Lost River Basin SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
13118700	Little Lost R nr Howe	Aug-Sep	strm	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	1984	N	16	0	16	97%	3.9
2	1983	SE	11	0	11	94%	3.7
3	1995	SE	10	0	10	92%	3.5
4	1982	N	10	0	10	89%	3.2
5	1998	SE	9.3	0	9.3	86%	3.0
6	1986	N	8.7	0	8.7	83%	2.8
7	1997	N	8.2	0	8.2	81%	2.5
8	1999	SL	8.0	0	8.0	78%	2.3
9	2011	SL	7.8	0	7.8	75%	2.1
10	1993	EN	7.5	0	7.5	72%	1.9
11	2009	N	7.4	0	7.4	69%	1.6
12	1985	N	7.3	0	7.3	67%	1.4
13	2010	EN	7.3	0	7.3	64%	1.2
14	1987	N	6.0	0	6.0	61%	0.9
15	1990	N	6.0	0	6.0	58%	0.7
16	1981	N	5.6	0	5.6	56%	0.5
17	1996	N	5.2	0	5.2	53%	0.2
18	1989	SL	5.2	0	5.2	50%	0.0
19	2005	EN	4.5	0	4.5	47%	-0.2
20	2012	LN	4.3	0	4.3	44%	-0.5
21	1988	SE	4.3	0	4.3	42%	-0.7
22	2006	N	4.2	0	4.2	39%	-0.9
2016 Streamflow Forecast		SE	4.2	0	4.2	38%	-1.0
23	2000	N	4.1	0	4.1	36%	-1.2
24	2008	N	4.0	0	4.0	33%	-1.4
25	2013	N	3.8	0	3.8	31%	-1.6
26	1991	N	3.7	0	3.7	28%	-1.9
27	2014	N	3.6	0	3.6	25%	-2.1
28	1992	EN	3.5	0	3.5	22%	-2.3
29	2007	EN	3.0	0	3.0	19%	-2.5
30	1994	SE	3.0	0	3.0	17%	-2.8
31	2001	LN	2.9	0	2.9	14%	-3.0
32	2004	N	2.5	0	2.5	11%	-3.2
33	2002	N	2.4	0	2.4	8%	-3.5
34	2003	EN	2.1	0	2.1	6%	-3.7
35	2015	EN	2.1	0	2.1	3%	-3.9

Little Wood River Basin SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
13148500	LITTLE WOOD RIVER NR CAREY, ID	Aug-Sep	strm	1981-2015	35	Units KAF
13148200	LITTLE WOOD	31-Jul	resv	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	1995	SE	12	30	41	97%	3.9
2	1983	SE	14	26	40	94%	3.7
3	1982	N	12	27	39	92%	3.5
4	1984	N	15	23	38	89%	3.2
5	1997	N	11	25	36	86%	3.0
6	1998	SE	10	24	34	83%	2.8
7	1993	EN	8	22	30	81%	2.5
8	2009	N	5	23	28	78%	2.3
9	1999	SL	8	19	27	75%	2.1
10	1996	N	6	22	27	72%	1.9
11	1986	N	10	17	27	69%	1.6
12	2011	SL	0	26	26	67%	1.4
13	2010	EN	5	21	26	64%	1.2
14	2006	N	6	20	26	61%	0.9
15	2005	EN	4	19	23	58%	0.7
16	2012	LN	5	16	21	56%	0.5
2016 Streamflow Forecast		SE	3.5	18	21	54%	0.3
17	2004	N	4	13	17	53%	0.2
18	2003	EN	3	14	17	50%	0.0
19	1987	N	3	13	16	47%	-0.2
20	1981	N	3	12	16	44%	-0.5
21	2000	N	3	12	15	42%	-0.7
22	1989	SL	4	11	14	39%	-0.9
23	1991	N	3	11	14	36%	-1.2
24	1990	N	4	10	13	33%	-1.4
25	1985	N	7	7	13	31%	-1.6
26	2002	N	2	11	13	28%	-1.9
27	2008	N	2	10	12	25%	-2.1
28	2013	N	3	8	11	22%	-2.3
29	1988	SE	2	9	11	19%	-2.5
30	1992	EN	7	4	11	17%	-2.8
31	2015	EN	2	7	9	14%	-3.0
32	2001	LN	2	6	8	11%	-3.2
33	1994	SE	2	6	7	8%	-3.5
34	2014	N	3	4	7	6%	-3.7
35	2007	EN	2	4	6	3%	-3.9

Oakley Basin SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
13083500	Oakley Reservoir Inflow	Aug-Sep	strm	1981-2015	35	Units KAF
13083500	Oakley Reservoir	31-Jul	resv	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	1998	SE	3.7	54	57	97%	3.9
2	1984	N	7.7	48	56	94%	3.7
3	1983	SE	4.9	46	51	92%	3.5
4	2006	N	2.6	47	50	89%	3.2
5	1999	SL	3.2	46	49	86%	3.0
6	2011	SL	2.6	45	47	83%	2.8
7	1997	N	3.7	43	47	81%	2.5
8	1985	N	3.8	39	43	78%	2.3
9	1996	N	2.2	34	37	75%	2.1
10	2005	EN	2.1	34	36	72%	1.9
11	1986	N	5.0	31	36	69%	1.6
12	2009	N	2.3	30	32	67%	1.4
13	1982	N	3.3	27	31	64%	1.2
14	1995	SE	2.6	28	31	61%	0.9
15	2007	EN	1.5	29	30	58%	0.7
16	2000	N	1.3	24	25	56%	0.5
17	2012	LN	1.2	23	24	53%	0.2
18	2008	N	1.6	21	23	50%	0.0
19	2010	EN	1.6	20	22	47%	-0.2
20	1993	EN	2.5	19	21	44%	-0.5
21	1987	N	2.2	17.7	19.9	42%	-0.7
2016 Streamflow Forecast		SE	1.6	18.0	19.6	40%	-0.8
22	2013	N	2.3	16.1	18.4	39%	-0.9
23	2015	EN	2.0	14.4	16.4	36%	-1.2
24	2014	N	3.1	13.2	16.4	33%	-1.4
25	1981	N	1.3	14.6	15.9	31%	-1.6
26	2001	LN	1.2	13.9	15.1	28%	-1.9
27	2002	N	1.6	13.3	14.9	25%	-2.1
28	2004	N	1.8	10.5	12.3	22%	-2.3
29	1989	SL	2.3	7.5	9.8	19%	-2.5
30	1991	N	1.5	6.6	8.1	17%	-2.8
31	1988	SE	1.6	6.5	8.1	14%	-3.0
32	1990	N	1.6	6.4	8.0	11%	-3.2
33	2003	EN	1.3	6.1	7.4	8%	-3.5
34	1994	SE	1.3	5.4	6.7	6%	-3.7
35	1992	EN	1.1	3.5	4.6	3%	-3.9

Owyhee Basin SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
13183000	Owyhee R blw Owyhee Dam	Aug-Sep	strm	1981-2015	35	Units KAF
13182500	Lake Owyhee nr Nyssa	31-Jul	resv	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	1984	N	56	673	729	97%	3.9
2	2011	SL	39	650	689	94%	3.7
3	1983	SE	47	638	685	92%	3.5
4	1998	SE	38	636	674	89%	3.2
5	1982	N	33	621	654	86%	3.0
6	1995	SE	31	604	635	83%	2.8
7	1999	SL	35	587	622	81%	2.5
8	1997	N	31	587	618	78%	2.3
9	1986	N	40	573	613	75%	2.1
10	2006	N	29	579	608	72%	1.9
11	1993	EN	29	574	603	69%	1.6
12	1996	N	28	560	588	67%	1.4
13	1985	N	37	526	563	64%	1.2
14	2005	EN	30	526	556	61%	0.9
15	1989	SL	32	514	546	58%	0.7
16	1981	N	22	431	453	56%	0.5
17	2000	N	25	389	414	53%	0.2
18	2012	LN	26	385	411	50%	0.0
19	1990	N	28	334	362	47%	-0.2
20	2008	N	30	319	349	44%	-0.5
2016 Streamflow Forecast		SE	22	303	325	43%	-0.6
21	1987	N	23	302	325	42%	-0.7
22	2007	EN	26	297	323	39%	-0.9
23	2009	N	30	280	311	36%	-1.2
24	2010	EN	33	262	295	33%	-1.4
25	2004	N	39	230	269	31%	-1.6
26	2001	LN	23	242	265	28%	-1.9
27	2002	N	28	228	256	25%	-2.1
28	1994	SE	17	210	227	22%	-2.3
29	1991	N	24	190	214	19%	-2.5
30	2013	N	23	126	149	17%	-2.8
31	2003	EN	23	94	117	14%	-3.0
32	1988	SE	18	95	113	11%	-3.2
33	2015	EN	21	46	66	8%	-3.5
34	2014	N	21	12	33	6%	-3.7
35	1992	EN	24	4	28	3%	-3.9

Payette River Basin SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
13247500	Payette R nr Horseshoe Bend	Aug-Sep	strm	1981-2015	35	Units KAF
13244500	Cascade Reservoir	31-Jul	resv	1981-2015	35	Units KAF
13236000	Deadwood Reservoir	31-Jul	resv	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	1983	SE	274	841	1115	97%	3.9
2	1982	N	270	841	1111	94%	3.7
3	1997	N	225	812	1038	92%	3.5
4	1995	SE	174	859	1034	89%	3.2
5	1996	N	176	824	999	86%	3.0
6	2011	SL	210	772	981	83%	2.8
7	1999	SL	181	795	976	81%	2.5
8	1993	EN	196	779	976	78%	2.3
9	1998	SE	175	798	973	75%	2.1
10	1984	N	193	755	948	72%	1.9
11	1986	N	163	766	929	69%	1.6
12	1990	N	142	781	923	67%	1.4
13	1985	N	180	715	895	64%	1.2
14	1981	N	132	757	889	61%	0.9
15	2004	N	179	706	885	58%	0.7
16	1989	SL	148	723	871	56%	0.5
17	2006	N	147	720	867	53%	0.2
18	2008	N	155	709	864	50%	0.0
19	2000	N	137	726	862	47%	-0.2
20	2012	LN	141	710	851	44%	-0.5
21	2003	EN	140	708	848	42%	-0.7
22	2002	N	133	708	841	39%	-0.9
23	2005	EN	127	700	827	36%	-1.2
24	1991	N	104	719	823	33%	-1.4
25	2010	EN	128	683	811	31%	-1.6
26	2009	N	155	650	805	28%	-1.9
27	2014	N	106	673	779	25%	-2.1
28	2007	EN	124	653	777	22%	-2.3
2016 Streamflow Forecast		SE	95	664	759	21%	-2.4
29	2013	N	100	633	733	19%	-2.5
30	1988	SE	81	609	690	17%	-2.8
31	1987	N	65	611	676	14%	-3.0
32	2015	EN	69	602	671	11%	-3.2
33	1994	SE	76	569	645	8%	-3.5
34	1992	EN	65	555	620	6%	-3.7
35	2001	LN	81	497	578	3%	-3.9

Salmon Falls Creek Basin SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
13105000	Salmon Falls Creek nr San Jacinto	Aug-Sep	strm	1981-201!	35	Units KAF
13106500	Salmon Falls Reservoir	31-Jul	resv	1981-201!	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	ENSO	Allotment (per share)	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	1984	N	1.167	12.4	166	178	97%	3.9
2	2011	SL	1.167	4.3	128	132	94%	3.7
3	1986	N	1.167	4.6	113	118	92%	3.5
4	1985	N	1.167	4.6	112	116	89%	3.2
5	1998	SE	1.167	4.3	108	112	86%	3.0
6	2006	N	1.167	3.9	104	108	83%	2.8
7	1997	N	1.167	4.6	97	101	81%	2.5
8	1983	SE	1.167	6.5	87	93	78%	2.3
9	1999	SL	1.020	3.8	83	87	75%	2.1
10	1995	SE	1.000	3.8	72	76	72%	1.9
11	1996	N	1.167	3.4	71	74	69%	1.6
12	2009	N	1.000	3.8	69	73	67%	1.4
13	1993	EN	1.050	3.8	66	70	64%	1.2
14	1982	N	1.167	5.4	59	64	61%	0.9
15	2010	EN	0.680	3.0	59	62	58%	0.7
2016 Streamflow Forecast		SE		2.0	60	61.5	57%	0.6
16	2005	EN	0.840	2.8	57	59	56%	0.5
17	2012	LN	0.685	2.5	53	55	53%	0.2
18	1987	N	0.940	3.3	48	51	50%	0.0
19	2007	EN	0.655	2.7	47	50	47%	-0.2
20	1989	SL	0.890	3.4	34	38	44%	-0.5
21	2008	N	0.579	2.8	32	35	42%	-0.7
22	2000	N	0.481	2.4	28	30	39%	-0.9
23	1988	SE	0.570	3.3	27	30	36%	-1.2
24	1981	N	0.520	2.5	23	25	33%	-1.4
25	2004	N	0.425	3.4	18	22	31%	-1.6
26	1990	N	0.405	3.4	18	21	28%	-1.9
27	2015	EN	0.385	3.2	18	21	25%	-2.1
28	2013	N	0.380	2.5	18	21	22%	-2.3
29	1994	SE	0.330	2.2	17	19	19%	-2.5
30	1991	N	0.360	3.2	15	18	17%	-2.8
31	2002	N	0.436	2.4	16	18	14%	-3.0
32	2014	N	0.332	4.1	8	12	11%	-3.2
33	2003	EN	0.214	2.7	8	10	8%	-3.5
34	1992	EN	0.150	2.1	8	10	6%	-3.7
35	2001	LN	0.227	2.4	6	8	3%	-3.9

Salmon River Basin SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
13317000	Salmon R at Whitebird	Aug-Sep	strm	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	1984	N	904	0	904	97%	3.9
2	1982	N	901	0	901	94%	3.7
3	1983	SE	879	0	879	92%	3.5
4	1997	N	852	0	852	89%	3.2
5	2011	SL	797	0	797	86%	3.0
6	1995	SE	730	0	730	83%	2.8
7	1993	EN	715	0	715	81%	2.5
8	1998	SE	707	0	707	78%	2.3
9	1996	N	705	0	705	75%	2.1
10	1999	SL	667	0	667	72%	1.9
11	1986	N	651	0	651	69%	1.6
12	2010	EN	630	0	630	67%	1.4
13	2009	N	622	0	622	64%	1.2
14	1985	N	614	0	614	61%	0.9
15	2008	N	582	0	582	58%	0.7
16	2014	N	581	0	581	56%	0.5
17	2004	N	562	0	562	53%	0.2
18	2012	LN	515	0	515	50%	0.0
19	2006	N	507	0	507	47%	-0.2
20	1981	N	504	0	504	44%	-0.5
21	1990	N	493	0	493	42%	-0.7
22	1991	N	463	0	463	39%	-0.9
23	1989	SL	461	0	461	36%	-1.2
24	2003	EN	456	0	456	33%	-1.4
25	2013	N	450	0	450	31%	-1.6
26	2002	N	444	0	444	28%	-1.9
27	2000	N	441	0	441	25%	-2.1
28	2015	EN	431	0	431	22%	-2.3
29	2005	EN	424	0	424	19%	-2.5
2016 Streamflow Forecast		SE	420	0	420	18%	-2.7
30	2007	EN	394	0	394	17%	-2.8
31	2001	LN	348	0	348	14%	-3.0
32	1987	N	344	0	344	11%	-3.2
33	1988	SE	336	0	336	8%	-3.5
34	1992	EN	329	0	329	6%	-3.7
35	1994	SE	309	0	309	3%	-3.9

Snake River Near Heise SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
13037500	Snake River near Heise	Aug-Sep	strm	1981-2015	35	Units KAF
13010500	Jackson Lake	31-Jul	resv	1981-2015	35	Units KAF
13032450	Palisades Reservoir	31-Jul	resv	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	2011	SL	931	2234	3164	97%	3.9
2	1997	N	912	2220	3132	94%	3.7
3	1982	N	888	2021	2909	92%	3.5
4	1999	SL	693	2161	2854	89%	3.2
5	1995	SE	638	2210	2848	86%	3.0
6	1983	SE	832	2008	2840	83%	2.8
7	1984	N	805	2018	2823	81%	2.5
8	1996	N	652	2150	2802	78%	2.3
9	1998	SE	655	2141	2796	75%	2.1
10	2008	N	636	2113	2749	72%	1.9
11	1993	EN	647	2089	2736	69%	1.6
12	2009	N	621	2049	2670	67%	1.4
13	1986	N	790	1679	2469	64%	1.2
14	2014	N	687	1779	2466	61%	0.9
15	2010	EN	504	1936	2440	58%	0.7
16	1989	SL	540	1864	2404	56%	0.5
17	1991	N	515	1879	2394	53%	0.2
18	2006	N	498	1894	2392	50%	0.0
19	2012	LN	497	1736	2233	47%	-0.2
20	2015	EN	470	1749	2219	44%	-0.5
21	2000	N	413	1716	2129	42%	-0.7
22	1990	N	434	1665	2099	39%	-0.9
23	2005	EN	490	1476	1966	36%	-1.2
24	1981	N	394	1552	1946	33%	-1.4
2016 Streamflow Forecast		SE	390	1470	1860	32%	-1.5
25	1985	N	491	1362	1853	31%	-1.6
26	1994	SE	316	1357	1673	28%	-1.9
27	1987	N	395	1191	1586	25%	-2.1
28	2007	EN	410	1141	1551	22%	-2.3
29	2002	N	418	1105	1523	19%	-2.5
30	2013	N	451	989	1440	17%	-2.8
31	2003	EN	442	970	1412	14%	-3.0
32	1988	SE	335	1054	1389	11%	-3.2
33	2004	N	465	847	1312	8%	-3.5
34	2001	LN	313	909	1222	6%	-3.7
35	1992	EN	308	890	1198	3%	-3.9

Spokane River Basin SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
12419000	Spokane R nr Post Falls	Aug-Sep	strm	1981-2015	35	Units KAF
12415500	Coeur D'Alene Lake	31-Jul	resv	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	1993	EN	148	231	379	97%	3.9
2	1983	SE	136	233	369	94%	3.7
3	2004	N	135	231	366	92%	3.5
4	1997	N	135	229	364	89%	3.2
5	1999	SL	120	233	353	86%	3.0
6	1985	N	114	237	351	83%	2.8
7	2008	N	117	231	348	81%	2.5
8	1982	N	108	236	344	78%	2.3
9	1989	SL	105	238	343	75%	2.1
10	2011	SL	98	243	341	72%	1.9
11	1984	N	101	234	334	69%	1.6
12	1990	N	105	228	332	67%	1.4
13	1981	N	97	234	331	64%	1.2
14	1995	SE	97	233	330	61%	0.9
15	1991	N	96	232	328	58%	0.7
16	2002	N	93	232	326	56%	0.5
17	2013	N	91	233	325	53%	0.2
18	2010	EN	89	235	324	50%	0.0
19	1996	N	83	237	319	47%	-0.2
20	2012	LN	83	232	315	44%	-0.5
21	1992	EN	74	236	311	42%	-0.7
22	2000	N	73	235	309	39%	-0.9
23	1998	SE	71	235	306	36%	-1.2
24	2009	N	74	231	305	33%	-1.4
25	2014	N	69	235	304	31%	-1.6
26	1986	N	69	234	303	28%	-1.9
27	2006	N	64	232	295	25%	-2.1
28	2005	EN	52	235	287	22%	-2.3
29	1987	N	44	237	280	19%	-2.5
30	2003	EN	41	235	276	17%	-2.8
31	1988	SE	37	233	270	14%	-3.0
2016 Streamflow Forecast		SE	35	235	270	13%	-3.1
32	2007	EN	35	230	265	11%	-3.2
33	2001	LN	28	236	264	8%	-3.5
34	1994	SE	33	230	263	6%	-3.7
35	2015	EN	23	218	241	3%	-3.9

Teton River Basin SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
13052200	Teton R nr Driggs	Aug-Sep	strm	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	2011	SL	69.6	0	69.6	97%	3.9
2	1993	EN	67.1	0	67.1	94%	3.7
3	1997	N	65.7	0	65.7	92%	3.5
4	1982	N	64.2	0	64.2	89%	3.2
5	1983	SE	62.6	0	62.6	86%	3.0
6	1984	N	59.7	0	59.7	83%	2.8
7	1999	SL	52.3	0	52.3	81%	2.5
8	1986	N	51.8	0	51.8	78%	2.3
9	1995	SE	51.1	0	51.1	75%	2.1
10	1998	SE	47.6	0	47.6	72%	1.9
11	1996	N	47.5	0	47.5	69%	1.6
12	2008	N	44.7	0	44.7	67%	1.4
13	2009	N	44.1	0	44.1	64%	1.2
14	2014	N	43.9	0	43.9	61%	0.9
15	2004	N	38.3	0	38.3	58%	0.7
16	1989	SL	36.7	0	36.7	56%	0.5
17	1985	N	36.4	0	36.4	53%	0.2
18	1991	N	35.3	0	35.3	50%	0.0
19	2005	EN	35.2	0	35.2	47%	-0.2
20	2010	EN	34.8	0	34.8	44%	-0.5
21	2006	N	33.4	0	33.4	42%	-0.7
22	2013	N	31.9	0	31.9	39%	-0.9
23	2002	N	31.5	0	31.5	36%	-1.2
24	1987	N	28.1	0	28.1	33%	-1.4
25	1981	N	27.8	0	27.8	31%	-1.6
26	2012	LN	27.6	0	27.6	28%	-1.9
27	2003	EN	25.9	0	25.9	25%	-2.1
28	2015	SE	25.8	0	25.8	22%	-2.3
29	1990	N	25.1	0	25.1	19%	-2.5
30	2000	N	25.0	0	25.0	17%	-2.8
31	1988	SE	23.4	0	23.4	14%	-3.0
32	2007	EN	21.5	0	21.5	11%	-3.2
33	1992	EN	20.2	0	20.2	8%	-3.5
2016 Streamflow Forecast		SE	20.0	0	20.0	7%	-3.6
34	1994	SE	19.8	0	19.8	6%	-3.7
35	2001	LN	16.6	0	16.6	3%	-3.9

Weiser River Basin SWSI Adequate Water Supply Not Available or Known

Station ID	Station Name	Period	Data Type	Years	# of Years	
13266000	Weiser R nr Weiser	Aug-Sep	strm	1981-2015	35	Units KAF

ENSO Classification
SE Strong El Nino - EN Mild El Nino - N Neutral - LN Mild La Nina - SL Strong La Nina

Rank	Year	Enso	Stream Flow Aug-Sep	Reservoir 31-Jul	Streamflow + Reservoir Sum	Non-Exceedance Probability	SWSI
1	1984	N	52.7	0	52.7	97%	3.9
2	1986	N	45.6	0	45.6	94%	3.7
3	1985	N	40.4	0	40.4	92%	3.5
4	1983	SE	39.5	0	39.5	89%	3.2
5	1982	N	39.2	0	39.2	86%	3.0
6	1998	SE	37.4	0	37.4	83%	2.8
7	1997	N	35.0	0	35.0	81%	2.5
8	1995	SE	33.4	0	33.4	78%	2.3
9	1993	EN	33.3	0	33.3	75%	2.1
10	1999	SL	33.0	0	33.0	72%	1.9
11	1996	N	31.3	0	31.3	69%	1.6
12	2011	SL	30.6	0	30.6	67%	1.4
13	1989	SL	29.4	0	29.4	64%	1.2
14	2000	N	28.7	0	28.7	61%	0.9
15	2009	N	27.5	0	27.5	58%	0.7
16	2010	EN	26.6	0	26.6	56%	0.5
17	1981	N	26.6	0	26.6	53%	0.2
18	2004	N	26.4	0	26.4	50%	0.0
19	2003	EN	25.2	0	25.2	47%	-0.2
20	2006	N	25.2	0	25.2	44%	-0.5
21	2008	N	25.0	0	25.0	42%	-0.7
22	2012	LN	24.6	0	24.6	39%	-0.9
23	2013	N	24.3	0	24.3	36%	-1.2
24	2002	N	23.1	0	23.1	33%	-1.4
25	2005	EN	23.1	0	23.1	31%	-1.6
2016 Streamflow Forecast		SE	21.0	0	21.0	29%	-1.7
26	2001	LN	20.8	0	20.8	28%	-1.9
27	2014	N	20.7	0	20.7	25%	-2.1
28	2015	EN	19.6	0	19.6	22%	-2.3
29	2007	EN	19.1	0	19.1	19%	-2.5
30	1990	N	16.0	0	16.0	17%	-2.8
31	1991	N	15.6	0	15.6	14%	-3.0
32	1994	SE	14.7	0	14.7	11%	-3.2
33	1987	N	13.1	0	13.1	8%	-3.5
34	1992	EN	11.1	0	11.1	6%	-3.7
35	1988	SE	10.1	0	10.1	3%	-3.9