Safety is your responsibility!
Research rivers carefully!
Assess your skills properly!
Maintain your equipment!
Consider your team!
Respect team limitations!
Confirm team procedures!
Prevent spread of invasive species!
Have fun!

The River and Snow Report

Vital Statistics, Analysis and Hyperlinks for Select Western Rivers

For Optimal Hyperlink Performance, Download PDF Report to your Computer

THE RIVER NIGHT SKY
10/28-¾ Moon; 11/4-new Moon; 11/11-¼ Moon; 11/17±10 Leonid@10; 11/19-full Moon,partial lunar eclipse; 11/27-¾ Moon; 12/4-new Moon; 12/10-¼ Moon; 12/18-full Moon; 12/26-¾ Moon

10-Day River Forecast Hydrographs | NOAA River Basin Forecast Centers | NRCS Water and Climate Update (Updated mid-day Thursdays) | NRCS Western Reservoir Current Summary | NRCS SWE Map West US | NRCS WYTD Map West US

Hyper-matrix column headings: Bureau of Rec-Snow to Flow / USDA; 6-10 Day Outlook / Forecast; 8-14 Day Outlook / Charts; Three Month Outlooks / Precip; Planner / GOES IV; CO Basin RFC Observed / GOES; CO Basin RFC Discussion / Aviation; Wild Fires Map / NOAA; NRCS Runoff Forecast / NCAR; Opensnow

Hyper-matrix (River/Weather/Snowpack Hyperlinks) (see Key to Symbols Below): NOAA, NICC, NRL, NOHRSC, SWE, WYTD, Stormsur, ECMWF, Permits, CRBFC, Drought, NOAA, NSIDC, Rec.gov (NRCS Runoff Forecast), AWA (Opensnow), (Wild Fires Map), DRE, RMS

Underlined Rivers Hyperlink to USGS WaterWatch Detailed Statistical Analysis	10/18 Mon	10/19 Tue	10/20 Wed	10/21 Thu	10/22 Fri	10/23 Sat	10/24 Sun	10/25 Mon	10/26 Tue	10/27 Wed	10/28 Thu	10/29 Fri	10/30 Sat	10/31 Sun	11/1 Mon	11/2 07:42	Underlined states=>WW Map Underlined basins=>NRCS Map Underlined rivers=>Dreamgraphs	Current Historic Median	Current Percent of Median	Yesterday's Two week change	Yesterday's two week up or down %	Yesterday's Two Week Trend units/day	2	Hyper-matrix
Colorado; North to South 114 Snotel Sites@10188'	73.5 3.3 32 52 41.8	98.4 10.7 23 40 31.4	68.2 1.9 22 46 33.9	80.5 1.4 27 52 38.1	80.3 1.2 28 53 40.0	65.2 7.3 30 49 38.2	68.6 9.7 29 47 37.8	71.3 2.5 35 59 46.2	63.3 45.5 22 45 33.1	105 12.1 19 33 27.2	114 3.7 24 42 33.5	110 2.1 25 50 38.2	108 1.1 26 49 39.5	142 5.5 27 46 38.2	106 10.4 24 41 38.0	Swe" Precip" MinF MaxF AvgF	Colorado; North to South 114 Snotel Sites@10188'	NRCS Forecast Map 2019 Runoff		32.7	30.8%	3.51 -0.01	3	AWA Dream USGS Snotel SWE CoCoRs CAIC INDEX NRCS COWSC QPF CAIC WYTD CO DW Water Watch
Green River,Upper 13@8682'																	Green River,Upper	Loomis Park_8240' 0" 0" * %			SWE	# | #	4	Wunder ☼
Green,Lodore[Greendale](III+,IV)Rs	1366	1361	1331	1257	1293	1282	1296	1281	1290	1299	1268	1318	1364	1246	1206	896	Green,Lodore[Greendale](III+,IV)Rs	1490	60%	-160	-12%	-5.2	5	P 0 1 Đ 3 4 5 ☼ A G B @ C X R W J D D ♘ O ® ® P ☺ S
Green,Echo Park(Jensen)(III+,IV)	1671	1674	1702	1799	1741	1763	1759	1804	1766	1703	1747	1791	1843	1881	1874	2080	Green,Echo Park(Jensen)(III+,IV)	1870	111%	203	12%	11.6	6	P 1 Đ 3 4 5 ☼ A G B @ C X W J D D ♘ O ® ® P ☺ S
Yampa and White 20@9222'																	Yampa and White	Rabbit Ears_9400' 0.1" .1" * %			SWE	0.00 | #	7	Wunder ☼ Q
White,Rangely(II)	337	369	372	391	367	353	357	383	400	367	354	339	348	358	371	463	White,Rangely(II)	462	100%	34	10%	-0.5	8	0 2 3 4 5 ☼ A G B @ C 1 J M
White,Rangely[Blw Boise Ck](II)	337	369	372	391	367	353	357	383	400	367	354	339	348	358	371	463	White,Rangely[Blw Boise Ck](II)	462	100%	34	10%	-0.5	9	0 1 2 3 4 5 ☼ A G B @ C J M ☺
Yampa,Cross Mtn(IV,V)	228	256	270	287	265	253	236	261	298	326	314	297	292	280	297	323	Yampa,Cross Mtn(IV,V)	323	100%	69	30%	4.0	10	0 1 3 4 5 ☼ A G B @ C ♓ J D ♘
Yampa,Deerlodge(III,III+)	215	292	341	358	365	353	342	335	337	369	410	423	409	389	412	417	Yampa,Deerlodge(III,,III+)	475	88%	197	91%	9.7	11	P 0 2 3 4 5 ☼ A G B @ 1 X R W J D D D O ® P ☺ S
N Platte 12@9766'																	N Platte	Tower_10500' 0.1" .1" 100* %				0.00 | #	12	Wunder ☼ N N N
N Platte,Northgate(II,IV-)	91	90	100	101	103	97	100	103	101	96	91	89	88	92	97	95	N Platte,Northgate(II,IV-)	142	67%	6	6%	-0.3	13	0 1 2 4 5 ☼ A G B @ C ♓ M
Colorado 31@10059'																	Colorado,Headwaters	Berthoud Summit_11300' 0.1" 0" * %				0.00 | #	14	Wunder Đ Đ ☼ Q
Eagle,Avon(Dowd Chute)(III,IV,V)	79	75	71	67	63	71	73	74	70	65	66	65	67	68	75	80	Eagle,Avon(Dowd Chute)(III,IV,V)	96	83%	-4	-5%	-0.3	15	2 3 4 5 ☼ A G B @ C 1
Eagle,Gypsum(II,III+)	169	164	163	162	158	154	164	165	164	155	152	171	160	156	158	181	Eagle,Gypsum(II,III+)	243	74%	-12	-7%	-0.4	16	0 1 3 4 5 ☼ A G B @ C
Roaring Fk,Cemetary(II,III)	643	650	651	649	648	657	641	618	616	604	590	566	559	558	595	624	Roaring Fk,Cemetary(II,III)	697	90%	-48	-7%	-7.1	17	0 1 3 4 5 ☼ A G B @ C ♓ D
Blue,Blue River CG(II+,III,IV-)Đ	99	108	124	124	124	124	124	126	130	130	130	130	130	130	130	130	Blue,Blue River CG(II+,III,IV-)Đ	95	137%	31	32%	1.6	18	0 1 Đ 3 4 5 ☼ A G B @ C ♓ O
Blue,Green Mtn(III)Đ	313	309	321	352	357	352	385	405	405	400	405	404	404	383	352	355	Blue,Green Mtn(III)Đ	339	105%	39	12%	5.7	19	0 1 Đ 3 4 5 ☼ A G B @ C V ♓
Colorado,Pumphouse(II+,III)	758	725	684	674	661	653	671	716	715	708	705	703	714	712	674	668	Colorado,Pumphouse(II+,III)	730	92%	-84	-11%	-0.4	20	1 3 4 5 ☼ A G B @ C ♓ ♓ J O O D D O O
Colorado,Rodeo[Catamount](III)	818	799	758	726	710	705	698	748	770	767	757	752	762	767	755	744	Colorado,Rodeo[Catamount](III)	1010	74%	-63	-8%	-0.6	21	4 5 ☼ ♓ J O O D D
Colorado,Shoshone[Dotsero](III-,IV,V)	1087	1080	1049	1012	992	975	977	992	1029	1029	1018	1026	1025	1031	1033	1020	Colorado,Shoshone[Dotsero](III-,IV,V)	1190	86%	-55	-5%	-1.8	22	0 1 3 4 5 ☼ A G B @ C J D D
Colorado,Ruby-Horsethief(I,II+)	3110	3260	3387	3495	3371	3353	3365	3336	3315	3235	3234	3203	3138	3132	3323	4290	Colorado,Ruby-Horsethief(I,II+)	4220	102%	213	7%	-8.5	23	P 0 1 3 4 5 ☼ A G B @ C R X J D D ® P ☺ S
Colorado,Westwater(III+,IV+)	3110	3260	3387	3495	3371	3353	3365	3336	3315	3235	3234	3203	3138	3132	3323	4290	Colorado,Westwater(III+,IV+)	4220	102%	213	7%	-8.5	24	P 0 1 3 4 5 ☼ A G B @ C R X J D D ® ® P ☺ S
Gunnison																	Gunnison	Schofield Pass_10700' 0" 0" * %				0.00 | #	25	Wunder ☼ Q N
Taylor,Lower(Almont)(II,III+)	119	119	119	119	117	120	119	119	117	116	116	115	118	117	120	117	Taylor,Lower(II,III+)	161	73%	1	1%	-0.1	26	0 1 3 4 5 ☼ A G B @ C ♓
Gunnison[Gunnison](II,III)	230	232	233	246	250	259	265	269	266	260	287	273	278	278	289	294	Gunnison[Gunnison](II,III)	305	96%	59	26%	4.0	27	0 1 3 4 5 ☼ A G B @ C J
Gunnison, Gorge(III,IV)Đ	343	349	345	343	342	341	352	354	354	356	356	356	354	354	355	350	Gunnison, Gorge[Tunnel](III,IV)Đ	468	75%	12	3%	1.0	28	1 Đ 3 4 5 ☼ A G B @ C J O O
Gunnison,Delta(II-,III-)	659	697	691	698	680	685	702	704	685	665	654	641	635	629	652	711	Gunnison,Delta((II-,III-)	1050	68%	-7	-1%	-3.9	29	0 1 3 4 5 ☼ A G B @ C @ J O O
Arkansas 9@10722'																	Arkansas	Fremont Pass_11400' 0.1" .1" 100* %				0.00 | #	30	Wunder ☼ Q N N N N N
Arkansas,Numbers(III,IV)																Ssn	Arkansas,Numbers(III,IV)	---					31	0 4 5 ☼ A G B @ C D J D O O
Arkansas,Browns(III,IV-)																Ssn	Arkansas,Browns(III,IV-)	303					32	0 4 5 ☼ A G B @ C D D J D O O O
Arkansas,Gorge(III,IV)																Ssn	Arkansas,Parkdale(Gorge)((III,IV)	395					33	0 1 2 4 5 ☼ A G B @ C D ♓ D J D O O
S Platte 22@10226'																	S Platte	Hoosier Pass_11400' 0.1" .1" * %				0.00 | #	34	Wunder ☼ Q
S Platte,Union Chutes(III)Đ	26	21	30	30	24	24	28	26	26	27	26	29	36	34	37	51	S Platte,Union Chutes(III)Đ	37	138%	11	41%	0.7	35	0 4 5 ☼ A G B @ C ♓ ♓ ♓ ♓ ♓ ♓
S Platte,Confluence Pk(II,III)Đ	13	13	12	12	12	12	12	12	12	11	12	12	12	12	41	206	S Platte,Confluence Pk(II,III)Đ	14	1471%	28	224%	0.7	36	0 4 5 ☼ A G B @ C ♓ ♓ ♓ ♓ ♓ ♓
NF S Platte,Bailey[1](IV,V) Đ																81	NF S Platte,Bailey[1](IV,V)Đ						37	☼ A Q B @ C
Bear Ck[1](III,IV,V)																26	Bear Ck[1](III,IV,V)						38	0 1 2 ☼ A Q B C
Clear Ck,Golden(III,IV,V)	66	73	66	69	69	70	71	68	64	62	64	65	62	63	67	64	Clear Ck,Golden(III,IV,V)	75	85%	0	0%	-0.5	39	0 1 4 5 ☼ A G N @ N B C
Boulder Ck, Lower(II,III,IV,V)	43	47	53	81	76	60	55	48	21	16	13	9	8	7	5	6	Boulder Ck, Lower(II,III,IV,V)	39	16%	-38	-87%	-4.7	40	0 4 5 ☼ A G B C
Poudre,Rock Report(feet)[3]																	Poudre,Rock Report(feet)[3]			0			41	☼ A B @ C
Poudre,Lower[1](II,III,IV,V)																272	Poudre,Lower[1](II,III,IV,V)						42	0 1 2 ☼ A Q B @ C
W San Juan Mtns 18@10405'																	W San Juan Mtns	Molas Lake_10500' 0.4" .4" * %				0.00 | #	43	Wunder ☼ Q
Piedra(III,IV,V)	66	69	67	67	61	65	70	74	70	64	63	60	60	59	60	64	Piedra(III,IV,V)	111	58%	-6	-9%	-0.6	44	0 3 ☼ A G B @ C
Animas,Silverton(IV,V)	103	103	102	100	100	106	108	108	99	97	95	94	93	93	100	88	Animas,Silverton(IV,V)	103	86%	-3	-3%	-0.7	45	4 5 ☼ A G B @ C M
Animas,Durango(III,III+)	284	282	279	270	264	265	280	284	282	261	249	242	237	233	232	241	Animas,Durango(III,III+)	285	85%	-52	-18%	-3.7	46	0 2 3 4 5 ☼ A G B @ C
San Juan,Archuletta(II)Đ	520	521	522	523	524	523	465	440	439	440	439	440	441	437	398	377	San Juan,Archuletta(II)Đ	539	70%	-122	-23%	-9.1	47	1 2 Đ Đ 5 ☼ A G C ♓
San Juan,Bluff,UT(II,III)	550	580	632	664	725	672	723	688	623	609	588	580	592	618	616	624	San Juan,Bluff,UT(II,III)	992	63%	65	12%	-1.7	48	P 0 1 3 4 5 ☼ A G B @ C R O D D ® ® P ☺ S
Doloras 18@10405'																	Doloras	Lizard Head Pass_10200' 0" 0" * %				0.00 | #	49	Wunder ☼ Q
San Miguel, Placerville																	San Miguel, Placerville						50	0
Dolores,McPhee[1](II+,III,IV)Đ																80.8	Dolores,McPhee[1](II+,III,IV)Đ						51	0 1 3 Đ Đ ☼ A Q B @ C R D D ® ®
Dolores,[Cisco](IV)	118	122	118	114	114	113	110	114	111	112	109	105	103	101	143	117	Dolores,[Ciscoe](IV)	190	62%	25	22%	-0.3	52	1 3 4 5 ☼ G B @ C D D ® ® S
Arizona 39 Snotel Sites@8104'	2.8 .4 28 50 48.4	46.2 .3 23 46 40.9	2.4 .1 23 53 48.4	4.6 1.1 22 53 53.0	4.2 .2 19 53 55.2	4. .4 28 52 49.2	4.1 .2 20 47 52.9	55.1 1.2 23 53 54.6	43.6 1.2 18 40 42.4	44.3 .6 23 49 44.2	51.7 .8 26 53 49.7	49.7 .1 22 54 54.0	51.3 .1 25 55 51.9	47.7 .7 22 51 49.6	49.4 .3 19 48 50.5	Swe" Precip" MinF MaxF AvgF	Arizona 39 Snotel Sites@8104'	NRCS Forecast Map 2019 Runoff		46.6	94.3%	3.65 0.18	53	AWA Dream USGS Snotel SWE CoCoRs INDEX NRCS AZWSC QPF WYTD Water Watch Z
Verde River Basin																	Verde River Basin	Mormon Mtn Summit_8500' 0" 0" * %				0.00 | #	54	Wunder ☼ ✹
Verde,Camp Verde(I-V)	146	148	155	150	144	140	139	136	137	135	136	137	135	138	137	136	Verde,Camp Verde(I-V)	154	88%	-9	-6%	-1.1	55	1 3 4 5 ☼ A G B @ C V T K O
Verde,Abv Horseshoe Reservoir(I-III)	241	236	199	165	159	155	166	163	158	179	158	145	156	160	169	178	Verde,Abv Horseshoe Reservoir(I-III)	168	106%	-72	-30%	-4.4	56	0 1 3 4 5 ☼ A G B @ C V T K O
Salt-White Mtns																	Salt-White Mtns	Hannagan Meadows_9020' 0" 0" *%				0.00 | #	57	Wunder ☼ ✹
Salt(III,IV) MUSSELS! DCD	236	233	232	228	226	216	208	203	193	189	182	171	171	167	163	160	Salt(III,IV) MUSSELS! DCD	175	91%	-73	-31%	-5.8	58	P 0 1 3 4 5 ☼ A G B @ C X R T M D ® ® P ☺ S
California(SNOTEL only) 75 Snotel Sites@7075'	11.7 3.0 24 38 29.6	10.3 2.8 26 49 37.6	7.7 3.3 36 47 41.3	3.2 17.0 41 51 45.9	1.5 16.2 34 47 39.4	2.7 10.7 32 40 35.4	6.5 153 34 43 39.2	24.1 67.3 26 37 30.8	114 3.3 23 40 33.3	82.9 1.0 34 51 41.0	76.6 .7 35 58 43.7	71.8 .3 37 57 45.0	66.2 .4 37 52 43.8	56.6 .0 36 51 42.1	50.7 3.1 36 46 40.4	Swe" Precip" MinF MaxF AvgF	California(SNOTEL only) 75 Snotel Sites@7075'	NRCS Forecast Map 2019 Runoff		39.0	76.9%	5.75 0.46	59	AWA Dream USGS Snotel SWE CoCoRs INDEX NRCS CAWSC WYTD Ventura Water Watch Z
Lake Tahoe - Truckee																	Lake Tahoe - Truckee	Echo Peak_7653' 0.4" .4" * %				0.00 | #	60	Wunder ☼
Truckee																	Truckee						61	0 O ® P S
Tuolumne(IV+)																	Tuolumne(IV+)						62	P O ® P S
Idaho 82 Snotel Sites@7111'	15.3 1.2 35 54 43.2	11.3 1.5 33 54 42.0	10.3 2.6 35 50 41.3	8.7 1.7 36 55 44.4	8.1 24.0 34 54 43.8	9. 12.6 33 40 35.8	10.7 76.9 33 40 36.2	34.4 65.5 32 41 36.5	48. 19.4 30 38 33.5	53.3 7.6 32 42 36.0	53.2 15.9 34 48 40.8	47.7 23.0 35 51 42.6	41.7 .6 32 49 38.8	38.3 4.2 31 48 37.8	38.5 11.4 32 46 37.9	Swe" Precip" MinF MaxF AvgF	Idaho 82 Snotel Sites@7111'	NRCS Forecast Map 2019 Runoff		23.2	60.3%	3.21 -0.33	63	AWA Dream USGS Snotel SWE CoCoRs INDEX NRCS IDWSC QPF IPOWER WYTD Water Watch Z
Owyhee 8@6518'																	Owyhee	Fawn Creek_7031' 0.2" .2" * %			SWE	0.00 | #	64	Wunder ☼
Jarbidge/Bruneau(II+,IV+)	48	46	43	42	42	42	44	48	48	49	48	46	48	50	82	127	Jarbidge/Bruneau(II+,IV+)	100	127%	34	70%	1.2	65	0 1 2 3 4 5 ☼ A G B @ Z R T V M O S
Clearwater 16@5429'																	Clearwater	Lolo Pass_5240' 0" 0" * %				0.00 | #	66	Wunder ☼
Lochsa(II-IV+)	359	338	336	340	342	339	332	325	320	319	323	521	578	675	768	757	Lochsa(II-IV+)	636	119%	409	114%	24.0	67	0 1 3 4 5 ☼ A G B @
Selway,Paradise(IV-,V)(feet)																	Selway,Paradise(IV-,V)(feet)						68	P 3 ☼ A B @ X R T V D ® P ☺ S
Selway,Selway Falls(IV-,V)	496	481	479	483	487	486	474	462	453	444	449	650	730	745	792	780	Selway,Selway Falls(IV-,V)	838	93%	297	60%	19.2	69	P 0 1 2 3 4 5 ☼ A G B @ X T V D ® P ☺ S
Salmon 22@7418'																	Salmon	Deadwood Summit_6860' 0" 0" * %				0.00 | #	70	Wunder ☼ Z
SF Salmon(III-V)	107	103	102	103	104	104	104	102	100	100	102	142	149	287	264	186	SF Salmon(III-V)	151	123%	157	147%	9.2	71	0 1 4 5 ☼ A G B @ V Z T M
MF Salmon,Lodge(III,IV,IV+)	431	420	416	417	426	426	421	419	414	414	415	494	493	683	695	591	MF Salmon,Lodge(III,IV,IV+)	600	99%	264	61%	14.5	72	P 0 1 2 3 4 5 ☼ A G B @ X R W Z T D D ® ® P ☺ S
MF Salmon,Lodge(III,IV,IV+)(feet)	1.42	1.41	1.40	1.40	1.42	1.42	1.41	1.41	1.40	1.40	1.40	1.51	1.51	1.75	1.77	1.64	MF Salmon,Lodge(III,IV,IV+)(feet)	600		0.34	24%	0.0	73	P 1 2 3 ☼ A G B @ X R W Z T D D ® ® P ☺ S
MF Salmon,Mouth(III,IV,IV+)	883	857	846	844	849	861	862	858	850	840	837	867	942	988	1255	1170	MF Salmon,Mouth(III,IV,IV+)	1160	101%	371	42%	13.8	74	P 4 5 ☼ A G B @ X R W Z T D D ® ® P ☺ S
Panther Ck, Cobalt(III)	32	31	31	31	31	32	32	32	31	30	30	32	31	36	38	36	Panther Ck, Cobalt(III)	34	104%				75	4 5 ☼ A G @ Z
M Salmon,Shoup(III,IV)	1305	1347	1358	1366	1367	1356	1358	1361	1368	1360	1342	1345	1352	1429	1594	1790	M Salmon,Shoup(III,IV)	1950	92%	289	22%	8.4	76	0 1 2 3 4 5 ☼ A G B @ O
M Salmon,Corn Ck(III,IV)	2221	2235	2236	2240	2247	2249	2252	2251	2248	2231	2209	2244	2325	2453	2887	2996	M Salmon,Corn Ck(III,IV)	3110		666	30%	22.4	77	P ☼ A B @ X R W Z D O ® ® P ☺ S
M Salmon,White Bird(III,IV)	3318	3390	3370	3377	3373	3415	3441	3441	3415	3386	3415	3685	3810	4201	4605	4780	M Salmon,White Bird(III,IV)	4730	101%	1288	39%	62.0	78	0 1 2 3 4 5 ☼ A G B @ X R O O
Payette 12@6122'																	Payette 12@6122'	Deadwood Summit_6860' 0" 0" * %			SWE	0.00 | #	78	Wunder ☼
SF Payette,Lowman(III-IV)	280	275	272	272	273	272	271	270	267	266	271	318	315	551	423	368	SF Payette,Lowman(III-IV)	336	110%	143	51%	10.8	78	0 1 2 3 4 5 ☼ A G
Main Payette,Horseshoe Bend(I-III,III+)	840	829	823	821	817	820	817	817	814	813	821	931	957	1587	1579	1160	Main Payette,Horseshoe Bend(I-III,III+)	976	119%	738	88%	38.7	78	0 1 2 3 4 5 ☼ A G
Upper Snake - Henrys - Teton 8@7683'																	Upper Snake - Henrys - Teton	Grand Targhee_9260' 0" 0" 0* %				0.00 | #	79	Wunder ☼
Snake,Hell's Canyon(III,IV)Rs	8541	8545	8583	8502	8493	8470	8491	8489	8540	8539	8531	8545	8545	8583	8555	8530	Snake,Hell's Canyon(III,IV)Rs	---		14	0%	2.2	80	P I Đ 4 5 ☼ A G B @ X R D O ® P ☺ S
Montana 90 Snotel Sites	57.2 .9 33 55 42.3	53.3 .1 30 48 37.1	49.8 2.1 31 50 39.2	48.9 1.4 34 52 41.6	46.1 17.3 34 57 45.3	43.1 12.9 32 41 35.6	45.8 10.4 31 42 37.0	48.8 43.0 33 43 38.3	57. 11.1 29 37 33.1	65. 8.4 25 36 33.3	69.6 15.2 28 44 39.5	69.8 20.6 30 47 43.3	63.2 1.8 20 35 30.5	58.9 2.6 17 32 24.8	84.7 6.5 17 38 29.2	Swe" Precip" MinF MaxF AvgF	Montana 90 Snotel Sites	NRCS Forecast Map 2019 Runoff		27.5	32.5%	1.79 -0.81	81	AWA Dream USGS Snotel SWE CoCoRs INDEX NRCS MTWSC WYTD Water Watch
Pend Oreille - Flathead																	Pend Oreille - Flathead	Noisy Basin_6040' 0" 0" * %				0.00 | #	82	Wunder ☼
MF Flathead(III+,IV+)	417	408	394	386	379	368	363	356	350	347	341	410	415	446	457	466	MF Flathead(III+,IV+)	777	60%	40	10%	1.9	83	0 1 2 3 4 5 ☼ A G B @ M O
Smith																	Smith	Spur Park_8100' 0.1" .1" 33* %				0.00 | #	84	Wunder ☼
Smith(II)	78	79	77	77	76	76	75	74	74	74	76	79	77	78	83	86	Smith(II)	131	65%	5	6%	0.1	85	P 0 1 4 5 ☼ A G B @ R W K O ® P ☺ S
Nevada 54 Snotel Sites	11.7 7.0 22 40 36.5	13.1 1.6 22 43 39.0	11.4 .9 28 48 44.7	11.4 2.5 30 53 48.9	16.7 3.4 28 49 45.9	16. 10.4 25 39 36.9	13.7 57.5 27 44 42.2	21.8 57.2 22 38 35.0	94.5 4.1 21 34 32.0	89. .7 26 44 41.1	64.6 .0 29 50 45.4	55.6 .4 30 53 47.7	94.8 .1 32 52 47.5	87.4 .0 29 49 45.1	80.3 5.8 30 45 43.0	Swe" Precip" MinF MaxF AvgF	Nevada 54 Snotel Sites	NRCS Forecast Map 2019 Runoff		68.6	85.4%	6.75 0.31	86	AWA Dream USGS Snotel SWE CoCoRs INDEX NVWSC QPF WYTD Water Watch
Owyhee 8@6518'																	Owyhee	Fawn Creek_7031' 0.2" .2" * %			SWE	0.00 | #	87	Wunder ☼
Jarbidge/Bruneau(II+,IV+)	48	46	43	42	42	42	44	48	48	49	48	46	48	50	82	127	Jarbidge/Bruneau(II+,IV+)	100	127%	34	70%	1.2	88	0 1 2 3 4 5 ☼ A G B @ Z R T V M O S
Lake Tahoe																	Lake Tahoe	Echo Peak_7653' 0.4" .4" * %				0.00 | #	89	Wunder
New Mexico 27 Snotel Sites	50.2 .6 19 45 50.1	4.4 .4 17 41 42.8	3.2 .3 18 44 44.8	3.5 .4 21 49 47.2	3.4 .6 24 50 48.2	4.6 .7 22 46 47.1	4. .2 21 46 46.6	4. .8 23 51 52.9	4.9 2.3 13 36 41.4	5.3 .4 16 37 35.2	4.9 .5 21 47 42.9	4. 1.0 20 47 46.5	4.3 .1 21 48 49.1	4.2 .6 20 47 46.5	4. .2 23 46 43.7	Swe" Precip" MinF MaxF AvgF	New Mexico 27 Snotel Sites	NRCS Forecast Map 2019 Runoff		-46.2	-1155.0%	-1.11 -0.17	90	AWA Dream USGS Snotel SWE CoCoRs INDEX NRCS NMWSC QPF Dist 5 Dist 6 WYTD Water Watch
San Francisco,Glenwood(II,III)	28.3	29.9	31.0	32.1	31.9	31.2	30.1	30.2	28.1	28.3	28.8	27.3	26.5	26.0	26.1	27.4	San Francisco,Glenwood(II,III)	28	98%	-2	-8%	-0.3	91	0 1 3 4 5 ☼ A G C K
San Francisco,Clifton(II+)	48.8	48.7	58.0	60.0	57.6	56.2	52.6	43.0	40.8	33.6	39.7	38.9	35.8	33.2	29.8	26.3	San Francisco,Clifton(II+)	58	45%		-39%	-1.9	92	1 3 4 5 ☼ A G C K
Gila, Datile Volcanic Field																	Gila	Silver Creek Divide_9000' 0" 0" * %				0.00 | #	93	Wunder ☼
Gila,Wilderness Run(II,III)	56.7	56.6	57.8	57.7	57.0	56.6	55.4	53.6	52.7	52.5	52.8	52.1	51.2	50.5	50.8	52.4	Gila,Wilderness Run(II,III)	67	78%	-6	-10%	-0.6	94	0 1 3 4 5 ☼ A G @ C M K T
Gila, Middle Box(II,III+)	81	81	82	80	80	78	76	72	67	64	65	66	69	71	69	69	Gila, Middle Box(II,III+)	78	88%	-11	-14%	-1.2	95	0 1 3 4 5 ☼ A G @ C
Chama																	Chama	Chamita_8400' 0.2" .2" * %				0.00 | #	96	Wunder ☼
Chama, El Vado(I,II,III)Đ	84	36	35	35	35	35	35	34	35	35	35	35	35	35	35	34	Chama, El Vado(I,II,III)Đ	143	24%	-50	-59%	-1.2	97	P 0 1 4 5 ☼ A G B @ D ® ® P ☺ S
Rio Grande Headwaters 16@10765'																	Rio Grande Headwaters	Wolf Creek Summit_11000' 0" 0" * %				0.00 | #	98	Wunder ☼
NF Rio Grande, Wagon Wheel(II)[1]																762	NF Rio Grande, Wagon Wheel(II)[1]						99	0 ☼ A Q @ C
Rio Grande, Birds of Prey(II,III)	121	111	120	127	125	123	123	130	113	110	114	113	116	117	122	136	Rio Grande, Birds of Prey(II,III)	145	94%	1	1%	-0.4	100	0 1 4 5 ☼ A G @
Rio Grande, Lw Box(III,IV)	247	254	240	257	255	253	254	253	257	235	240	241	242	243	248	252	Rio Grande, Lw Box(III,IV)	327	77%	1	0%	-0.7	101	0 1 2 4 5 ☼ A G B @
Oregon 81 Snotel SItes	3.1 2.9 34 47 39.7	2.7 4.4 33 52 41.5	2.2 14.2 38 46 41.6	3.3 28.6 39 56 47.4	.9 48.6 37 47 40.1	4.8 23.0 36 42 38.6	5.9 62.6 35 44 39.3	11.1 17.9 34 42 36.9	12.4 31.9 34 43 38.2	12.8 11.1 38 47 42.1	9.8 11.8 43 58 49.9	6. 24.1 36 51 45.4	4.9 5.6 32 45 39.6	3.9 1.5 31 44 38.9	3.8 27.0 32 43 40.7	Swe" Precip" MinF MaxF AvgF	Oregon 81 Snotel SItes	NRCS Forecast Map 2019 Runoff		0.7	18.4%	0.31 0.03	102	AWA Dream USGS Snotel SWE CoCoRs INDEX NRCS ORWSC QPF WYTD Water Watch Z
Deschutes, Lower(III,III+)	4085	4098	4089	4092	4089	4088	4101	4160	4175	4183	4376	4821	4830	4820	4857	5010	Deschutes, Lower(III,III+)	4750	105%	772	19%	62.4	103	0 1 2 3 4 5 ☼ A G B @ R Z ® S
Grande Ronde(II,III,+)	564	567	575	582	587	584	585	580	581	574	604	679	730	755	762	753	Grande Ronde(II,III,+)	849	89%	198	35%	13.2	104	0 1 2 3 4 5 ☼ A G B @ R Z
John Day 13@5462'																	John Day	Arbuckle Mtn_5770' 0" 0" * %				0.00 | #	105	Wunder ☼
John Day(II,III)	185	194	198	201	202	204	206	204	204	204	212	230	254	287	296	293	John Day(II,III)	364	80%	112	61%	6.3	106	0 1 2 3 4 5 ☼ A G @ R Z
Owyhee 8@6518'																	Owyhee	Fawn Creek_7031' 0.2" .2" * %			SWE	0.00 | #	107	Wunder ☼
Owyhee(II-V)	118	121	120	132	128	125	125	121	117	119	124	128	126	132	145	249	Owyhee(II-V)	156	160%	28	24%	0.9	108	0 1 4 5 ☼ A G B @ Z T T S
Rogue,Umpqua 12@5268'																	Rogue,Umpqua	Summit Lake_5610' 0" 0" * %				0.00 | #	109	0 Wunder ☼
Illinois(IV,V)	54	54	55	55	55	53	55	58	94	173	695	737	1361	2575	2620	2260	Illinois(IV,V)	104	2173%	2566	4741%	159.1	110	0 1 2 3 4 5 ☼ A G B @ R M Z T M
Rogue(II+,III,IV)	1557	1569	1585	1581	1567	1559	1515	1554	1672	1725	2291	2383	2560	2815	2736	2700	Rogue(II+,III,IV)	1830	148%	1179	76%	94.5	111	P 0 1 3 4 5 ☼ A G B @ R X Z T T D D ® O ® P ☺ S
Utah 128 Snotel Sites	65.5 44.8 28 45 36.3	102 39.8 25 40 31.5	124 2.9 26 48 35.9	113 1.1 33 54 41.8	101 1.6 35 55 43.4	90.5 17.3 32 44 37.4	98.1 10.8 31 47 39.9	90.8 63.5 32 50 42.9	119 46.6 25 34 28.8	144 6.6 27 40 33.1	136 .1 31 49 38.5	117 2.0 32 55 41.4	104 .5 35 54 43.2	99.3 .1 36 52 42.5	91.9 6.3 35 50 41.0	Swe" Rain" MinF MaxF AvgF	Utah 128 Snotel Sites	NRCS Forecast Map 2019 Runoff		26.4	28.7%	1.13 0.36	112	AWA Dream USGS Snotel SWE CoCoRs INDEX NRCS UTWSC QPF Site Basin UoU WYTD Water Watch
Dirty Devil																	Dirty Devil	Dills Camp_9228' 0" 0" * %				# | #	113	Wunder ☼
Muddy Ck(I,II,III) MUSSELS! DCD	10.2	8.3	8.2	6.8	8.1	8.4	8.4	8.0	7.7	8.3	8.1	8.0	8.1	8.0	7.9	7.3	Muddy Ck(I,II,III) MUSSELS! DCD	12	61%				114	0 3 ☼ A B C M M M M
Dirty Devil(I,I+) MUSSELS! DCD	25.5	120.9	319.3	122.5	68.7	51.6	38.3	33.1	36.2	37.6	36.6	36.1	35.5	31.4	81.1	106.0	Dirty Devil(I,I+) MUSSELS! DCD	75	141%	56	218%	-7.3	115	0 3 4 5 ☼ A G B K
Escalante																	Escalante	Clayton Springs_10049' 0" 0" * %				# | #	116	Wunder ☼
Escalante(II,III) MUSSELS! DCD	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.9	1.0	1.0	1.0	1.0	1.1	3.1	4.4	Escalante(II,III) MUSSELS! DCD	5	95%	2	216%	0.1	117	3 4 5 ☼ A G B K O O T
Green River,Lower 11@																	Green River,Lower	Indian Creek_9425' 0" 0" * %				# | #	118	Wunder ☼
Green,Flaming Gorge A,B,C,D(I,II,III)Rs	1366	1361	1331	1257	1293	1282	1296	1281	1290	1299	1268	1318	1364	1246	1206	896	Green,Flaming Gorge A,B,C,D(I,II,III)Rs	1490	60%	-160	-12%	-5.2	119	0 1 Đ 3 4 5 ☼ A G B @ J O O D D D
Green,Lodore[Greendale](III+,IV)Rs	1366	1361	1331	1257	1293	1282	1296	1281	1290	1299	1268	1318	1364	1246	1206	896	Green,Lodore(III+,IV)Rs	1490	60%	-160	-12%	-5.2	120	P 0 1 Đ 3 4 5 ☼ A G B @ J X R W D D O ♘ ® ® P ☺ S
Yampa,Deerlodge(III,III+)	215	292	341	358	365	353	342	335	337	369	410	423	409	389	412	417	Yampa,Deerlodge(III,,III+)	475	88%	197	91%		121	P 0 1 2 3 4 5 ☼ A G B @ J X R W J D D O ♘ ® ® P ☺ S
Green,Echo Park[Jensen](III+,IV)	1671	1674	1702	1799	1741	1763	1759	1804	1766	1703	1747	1791	1843	1881	1874	2080	Green,Echo Park[Jensen](III+,IV)	1870	111%	203	12%	11.6	122	P 1 Đ 3 4 5 ☼ A G B @ X W D D O ♘ ® ® P ☺ S
Green,Deso Gray[Green River](II+,III)	2042	2055	2129	2101	2081	2073	2078	2186	2221	2396	2473	2324	2214	2171	2236	2180	Green,Deso Gray[Green River](II+,III)	2810	78%	194	9%	19.0	123	P 0 1 3 4 5 ☼ A G B @ X R W J D D D O ® P ☺ S
Green,Labyrinth(I)	2131	2155	2137	2201	2298	2238	2206	2181	2265	2319	2454	2661	2486	2338	2361	2310	Green,Labyrinth(I)	2610	89%	229	11%	24.9	124	P 1 4 5 ☼ A G B @ X R J D D D ® P S
Green,Stillwater(I)	2131	2155	2137	2201	2298	2238	2206	2181	2265	2319	2454	2661	2486	2338	2361	2310	Green,Stillwater(I)	2610	89%	229	11%	24.9	125	P 1 4 5 ☼ A G B @ X R J D D ♘ ® P S
Colorado,Westwater(III+,IV+)	3110	3260	3387	3495	3371	3353	3365	3336	3315	3235	3234	3203	3138	3132	3323	4290	Colorado,Westwater(III+,IV+)	4220	102%	213	7%	-8.5	126	P 0 1 3 4 5 ☼ A G B @ C X R J D D D ♘ ® P ☺ S
Colorado,Moab Daily(Cisco)	3239	3444	3348	3509	3426	3393	3389	3429	3392	3270	3289	3248	3195	3140	3548	3750	Colorado,Moab Daily(Cisco)	3840	98%				127	
Colorado,Potash(I)	2986	3456	3378	3416	3526	3439	3404	3496	3454	3385	3305	3318	3281	3218	3511	4050	Colorado,Potash(I)	4250	95%	525	18%	2.3	128	4 5 ☼ A G B @ X J D D ♘ ® S
Colorado,Cataract(IV,V) MUSSELS! DCD	5117	5611	5514	5617	5824	5676	5610	5677	5718	5704	5760	5979	5766	5556	5872	6360	Colorado,Cataract(IV,V) MUSSELS! DCD	6860		754	15%	27.3	129	P 0 ☼ A B @ X R J D D ♘ ☖ ☖ ☖ ® ® P ☺ S
W San Juan Mtns 18@10405'																	W San Juan Mtns	Molas Lake_10500' 0.4" .4" * %				0.00 | #	130	Wunder ☼ Q
San Juan,Bluff,UT(II,III) MUSSELS! DCD	550	580	632	664	725	672	723	688	623	609	588	580	592	618	616	624	San Juan,Bluff,UT(II,III) MUSSELS! DCD	992	63%	65	12%	-1.7	131	P 0 1 3 4 5 ☼ A G B @ C R O D D ® ® P ☺ S
Washington 115 Snotel Sites	4.6 .8 37 48 41.9	3.5 1.6 36 52 45.3	3.6 32.7 37 48 41.9	3. 23.6 37 50 44.5	5.8 34.4 36 45 41.3	4.4 19.3 35 42 38.8	4.1 55.4 35 42 39.4	10.9 48.1 34 40 37.4	22.2 61.0 33 41 37.8	35.3 25.9 33 40 37.0	46.5 129 35 48 44.1	42.8 25.0 29 43 37.3	36.7 1.8 28 40 34.8	37. 1.5 30 43 36.9	40.7 15.5 32 42 37.5	Swe" Precip" MinF MaxF AvgF	Washington 115 Snotel Sites	NRCS Forecast Map 2019 Runoff		36.1	88.7%	3.50 -0.51	132	AWA Dream USGS Snotel SWE CoCoRs INDEX NRCS WAWSC QPF WYTD Water Watch Z
Wenatchee Headwaters																	Wenatchee	Stevens Pass_3950' -M " 0" * %				# | #	133	Wunder ☼
Wyoming 89 Snotel Sites	74.8 3.2 31 53 41.2	69.4 29.4 29 42 34.8	88.8 1.7 26 43 34.0	86.5 1.6 29 49 37.9	85.5 1.9 30 54 41.0	82. 12.4 28 43 35.9	94.2 11.6 27 42 34.8	99.6 9.8 34 50 42.7	92.1 21.9 27 41 33.0	106 9.6 25 35 30.2	111 4.7 26 42 34.0	111 1.0 30 50 38.7	109 1.8 28 47 36.4	107 8.7 25 39 31.0	110 8.5 25 38 30.3	Swe" Precip" MinF MaxF AvgF	Wyoming 89 Snotel Sites	NRCS Forecast Map 2019 Runoff		35.4	32.1%	2.83 -0.42	134	AWA Dream USGS Snotel SWE CoCoRs INDEX NRCS WYWSC QPF WYTD Water Watch
Bighorn(I+)	1827	1820	1873	1985	1973	1960	1950	1962	2007	1995	1983	1971	1959	1945	1954	1990	Bighorn(I+)	2940	68%	127	7%	7.8	135	0 1 Đ 4 5 ☼ G ♓
Snake																	Snake	Lewis Lake Divide_7850' 0.1" .1" * %				# | #	136	Wunder ☼
Snake,Alpine Canyon(III)	1791	1719	1697	1708	1654	1635	1625	1621	1596	1565	1549	1530	1531	1576	1597	1610	Snake,Alpine Canyon(III)	1920	84%	-194	-11%	-15.2	137	0 1 3 4 5 ☼ A G B @ O
Green River,Upper 13@8682'																	Green River,Upper	Spring Creek Divide_9000' 0.1" .1" * %				# | #	138	Wunder ☼
Texas																	Texas						139	AWA USGS CoCoRs INDEX TXWSC Water Watch
Rio Grande,Castolon	36	33	35	37	31	26	22	20	18	92	195	95	47	25	22	20	Rio Grande,Castolon	657	3%	-15	-40%		140	M M ☼ A G C N A A A ®
Rio Grande,Rio Grande Village(I-III)	74	69	66	60	60	59	62	57	53	1866			93	93	73	66	Rio Grande,Rio Grande Village(I-III)	730	9%	-1	-1%	19.5	141	1 M M 4 5 ☼ A G B C A A A ® ® S
																							142	
																							143	
Grand Canyon MUSSELS! DCD Rs	Sep 2020 7,057 12,474 602kaf	Oct 2020 6,988 12,758 640kaf	Nov 2020 7,021 12,781 640kaf	Dec 2020 8,027 14,350 720kaf	Jan 2021 9,284 16,151 763kaf	Feb 2021 9,422 15,497 675kaf	Mar 2021 8,589 14,674 700kaf	Apr 2021 8,000 13,651 628kaf	May 2021 7,300-12,953 (28th-4th 8,000) 628kaf	Jun 2021 7,359 13,869 651kaf	Jul 2021 8,000 15,650 767kaf	Aug 2021 8,252 16,252 801kaf	Sep 2021 7,060 12,656 623kaf	Oct 2021 6,220 8,965 480kaf	Nov 2021 6,240 9,879 500kaf	Dec 2021 6,949 12,349 600kaf	Grand Canyon, Lee's FerryRs MUSSELS! DCD	Bureau of Reclamation Glen Canyon Dam Operations Report Oct 18, 2021(Updated mid-month)					144	P 0 1 4 5 ☼ A B @ R W SWE D D D D D C Đ X P
Grand Canyon MUSSELS! DCD Rs																	Grand Canyon,Abv Diamond CkRs MUSSELS! DCD	Aug 2021 8,252 16,252 801kaf	Sep 2021 7,060 12,656 623kaf	Oct 2021 6,220 8,965 480kaf	Nov 2021 6,240 9,879 500kaf	Dec 2021 6,949 12,349 600kaf	145	P G G G Wunder ☼ ☼ ☼ G G RRFW GC GCPBA Hayes GeoTripper GCMRC ® ® P ☺ S
1	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	25	26	27	28	29	146	22 23 24; 30 31 32 33 34 35 36 37 38 39; 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59
																	Start Time: 7:42:28 AM End Time: 7:47:35 AM Elapsed time: 5.116667 Hyperlinks: 2152						147	141

American Whitewater	American Canoe Association	High Country River Rafters	River Management Society	GCPBA Grand Canyon Private Boaters Association	Grand Canyon River Guides	Mountain Buzz	Pikes Peak Whitewater Club	Poudre Paddlers Canoe and Kayak Club	Colorado Whitewater Association	Adobe Whitewater Club of New Mexico	Utah Whitewater Club	Water Trail Nebraska	Rocky Mountain Sea Kayak Club	Rocky Mountain Canoe Club	142
Steve Rekuc, Rivermaps.co Interactive map of Whitewater River of West US	Paddling.com	GCPBA links	Tom Martin RRFW	Grand Canyon River Outfitters Association	PaddleOn Southwest Boating Guide	Rivergeek	Marek Uliasz Mountain Wayfarer	Colorado Plateau River Guides	Bill Herring The Ozark Whitewater Page	Mark Zen's Hypothermia Fundamentals	Idaho Whitewater Association	Front Range Paddle Sports Meetup	Canoe Colorado	Colorado Fishing Atlas	143
Colorado River District	CO-Northern Water	Denver Water	Colorado Park and Wildlife	National Wildfire Coordinationg Group	Recreation.gov	Western Regional Climate Center	PRISM Climate Group	Colorado Division of Water Resources	New Mexico Real-Time Water Measurement	Arizona Water Science Center	Sierra Rescue	Colorado River Oufitters Association(CROA)	Willamette Kayak and Canoe Club	Fish Explorer	144
Chris Shackleton Dreamflows	Brad Goettemoeller AllAboutRivers	Dwain Whitis Rivermaps.net	Marc McCord Southwest Paddler	RiverBrain	Jerry Nolan's Local River Guide	Canoe & Kayak	Will Hansen Rafting the West	Will Hansen Whitewater Campsites	Bill Tuthill California(and other) Creeks	Bob Foot Online	Marty Bell Poudre Rock Report	Jeffrey Creamer Videos aka Buzzer MT4Runner	Friends of the Yampa	California Forum Boof.com	145
Bill Tuthill California(and other) Creeks	Gary Valle' S. California Creek'in	Jason Rackley Oregon(other)	Rocky Contos Rivers of Mexico	Chris Bidwell Riverlogs	Riley Adams Vimeo	Todd Martin's Desert Hiking Guide	Troutmap.com	Whitewater Voyages	Darin Mcquoid Rivers of the World(and more!)	Darin Mcquoid Whitewater Photography Tutorial	Wet State Daniel Brasuell	Whitewater Guidebook Zach Collier	SouthwestGuideBook.com River_gear.html	Georgia Water Trails	146
Community Collaborative Rain, Hail & Snow Network (CoCoRaHS)	Stream Tracker Project	Colorado Avalanche Information Center	Southeast Arizona Wildflowers	Doloras River Boating Associates	Pacific Freeflow Newsletter	Professor Paddle	Northern Idaho Rivers Todd Hoffman	Eastern Colorado Wildflowers	Colorado Birding Society Rare Bird Alerts	USGS National Geologic Map Database	Trout Unlimited	Mayan Whitewater.com	Idaho Canoe Kayak Sup Club	Michael Lanza The Big Outside	147
CuriosityStream.com	4=USGS Water Watch Raster Hydrograph	INDEX=USGS Stream Flow Index	SWE The inches of water in the snow-pack if it was melted.	James Hodge Grand Junction Cycling	Best Kayaking in Wyoming	Bivy.Com	Washington Recreational River Runners(WRRR)	The Vitural Fossil Museum	StarDate.org Nightsky	Astronomy.com Observing the Sky	Spaceweather.com auroras and more	NOAA Space Weather Prediction Center	Upper Colorado Stake Holders Group	Riverflows.net	148
Raft Idaho	Quebec Whitewater	Facebook-QuebecWhitewater	The River Radius Podcast	Hammer Factor Webcasts	Gear Garage Northwest Rafting Company	River Talk Podcast	River Bend Radio	Waterbound Ted and Linc	Jurrassic Reimagined Morrison Formation Video	Snowpack Surveys an Inexact Science		Reservoir Control Center US Army Corps of Engineers	Go Light Outdoors	GeoTripper	148

Increase in flow	>0%	>10%	>20%	>30%	from previous day or long term average
Decrease in flow	>0%	>10%	>20%	>30%	

Data Hyperlinks and acknowledgements: 0, NRCS SWE-Q(Snow-to-Flow) graph; 1, NOAA hydrograph and river forecast; 2, NOAA long-range river forecast; 3, NOAA Basin Forecast Center river forecast; 4, USGS Waterwatch Raster Hydrograph; 5, USGS Waterwatch Average Daily Flow for life of gage; ☼, Gaging location weather from weather.gov; A, American Whitewater Association; G, United States Geological Survery; Q, State Division of Water Resources(Colorado Division of Water Resources); N, NOAA River Forecast Hydrograph; @, All About Rivers, Brad Goettemoeller; R, Rafting the West-Will Hansen; W, White Water Campsites-Will Hansen; X, GPX waypoints downloadable into handheld GPS, mostly from Rivermaps(contact me if you need assistence); C, SouthWest Paddler-Marc W. McCord; T, CA Creeks-Bill Tuthill; P, Dreamflows Permit Info; S, River Management Society Permit Info; I, Idaho Power; F, US Forest Service; O, Official website where information, permits and maps may be obtained; M,Miscellaneous map, guide or trip report of significance; D, Guidebook or map available from Downriver Equipment; V, Various other sources of information; K, Canoe and Kayak Magazine; B, RiverBrain website; ®, Regulations; J, Local River Guide, Jerry Nolan; ♓, Fishing Info; Đ, Dam Release Info; Z, Whitewater Guidebook, Zach Collier.

MUSSELS! DCD Mussel comtamination! Drain, Clean and Dry after use! LINK1 LINK2 LINK3

Grateful for feedback, support, pronostication and commiseration from: Chris Shackleton at Dreamflows.com; Beau Uriona NRCS SLC-Utah Data Collection Office; Rashawn Tama NRCS Portland-Water and Climate Center; Susan Novak Behery BOR Durango-Western Colorado Area Office; Paula Galloway CSU/NPS; Donald Sullivan USFS Tonto National Forest; Carter Freericks DRE; Cori Peter DRE; Zach Svoboda DRE; Peg Young; Alisa Mast USGS; Andrew Halperin; Logan Gill and many others including Mountain Buzz contributors AndyH, KayakingKate and F.A.A.C. Slim, WaterDude, caverdan.

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The River and Snow Report Graphs

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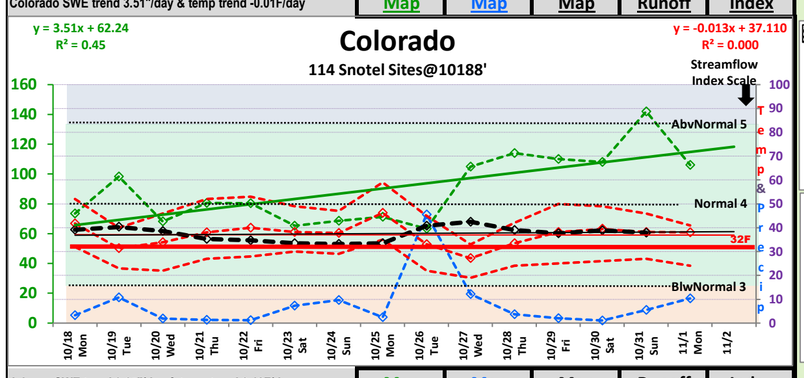
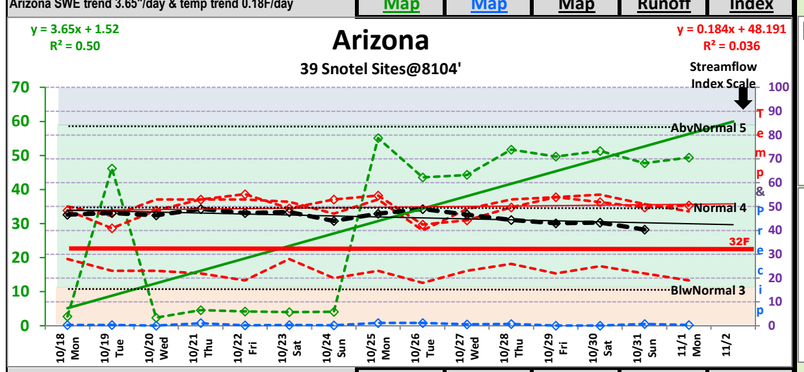
Two Week SNOTEL and USGS State Plots of

USGS Streamflow Index with Trendline(associated base layer and hyperlinks),
NRCS SNOTEL Temperatures(Min, Average with Trendline, Max), Precipitation and SWE with Trendline

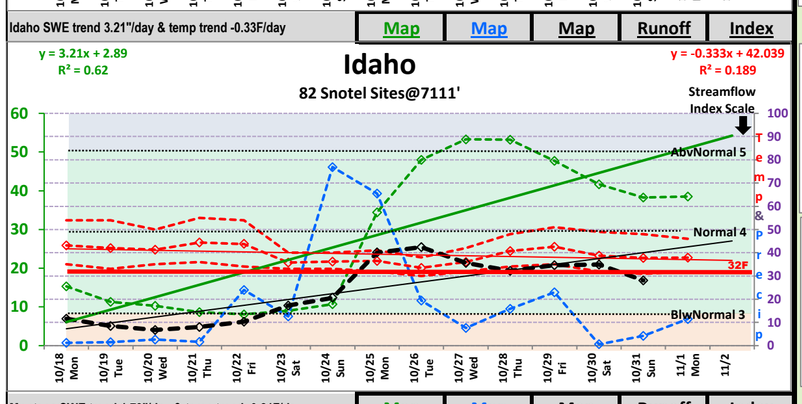
Colorado SWE trend 3.51"/day & temp trend -0.01F/day | Map | Map | Map | Runoff | Index



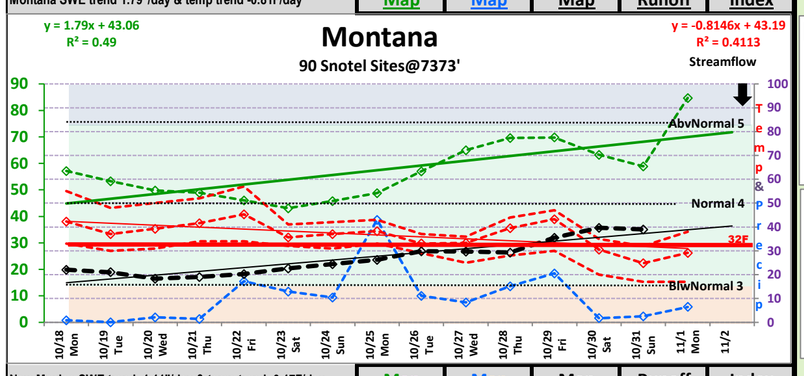
Arizona SWE trend 3.65"/day & temp trend 0.18F/day | Map | Map | Map | Runoff | Index



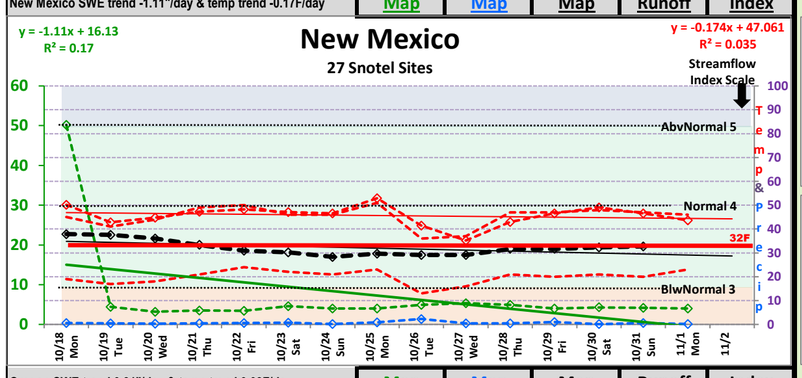
Idaho SWE trend 3.21"/day & temp trend -0.33F/day | Map | Map | Map | Runoff | Index



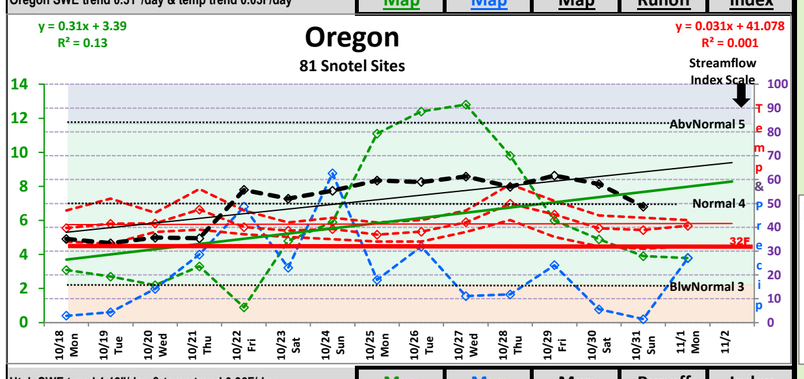
Montana SWE trend 1.79"/day & temp trend -0.81F/day | Map | Map | Map | Runoff | Index



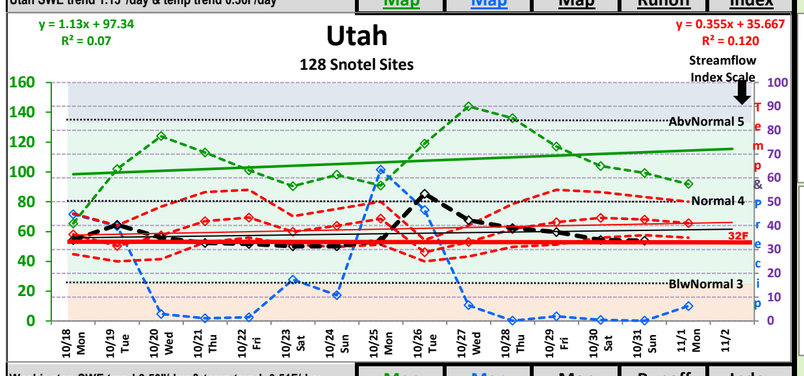
New Mexico SWE trend -1.11"/day & temp trend -0.17F/day | Map | Map | Map | Runoff | Index



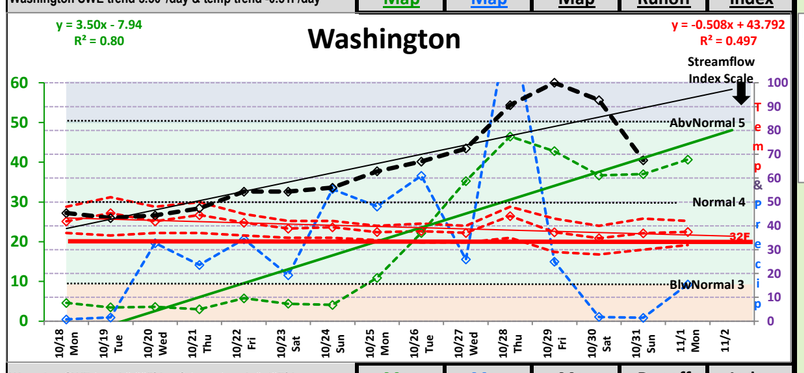
Oregon SWE trend 0.31"/day & temp trend 0.03F/day | Map | Map | Map | Runoff | Index



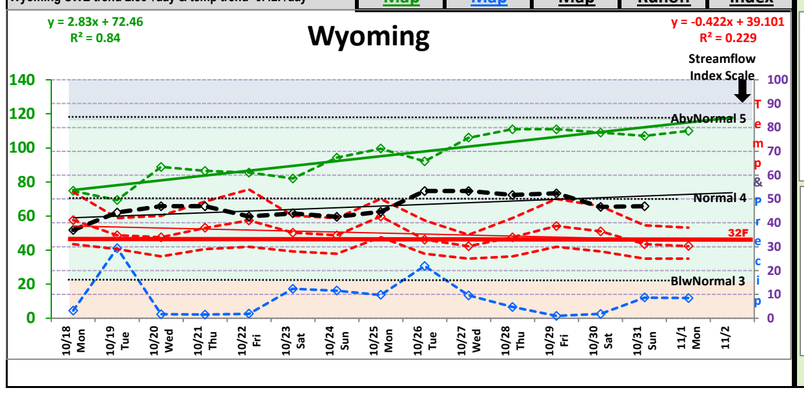
Utah SWE trend 1.13"/day & temp trend 0.36F/day | Map | Map | Map | Runoff | Index



Washington SWE trend 3.50"/day & temp trend -0.51F/day | Map | Map | Map | Runoff | Index



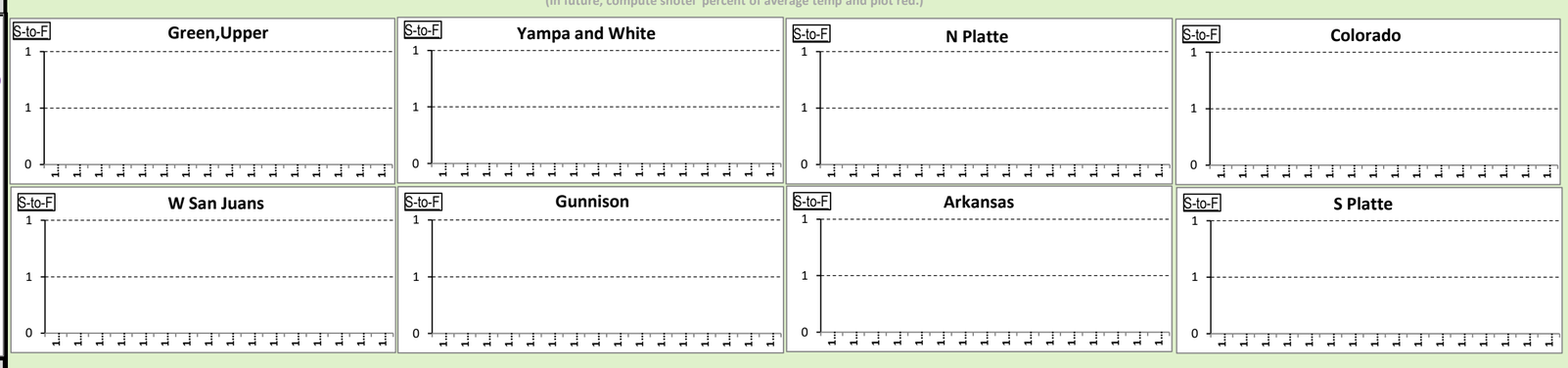
Wyoming SWE trend 2.83"/day & temp trend -0.42F/day | Map | Map | Map | Runoff | Index

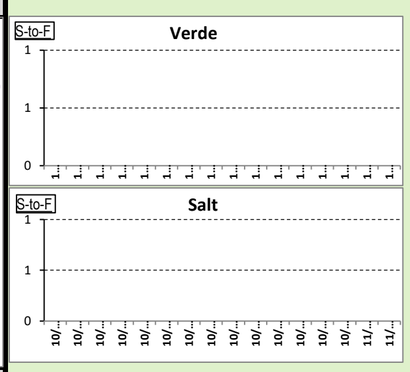


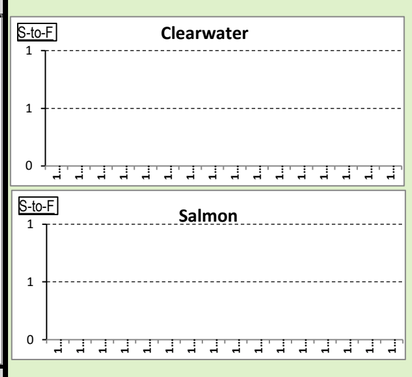
Two Week SNOTEL and USGS Basin Plots of Percent of Average

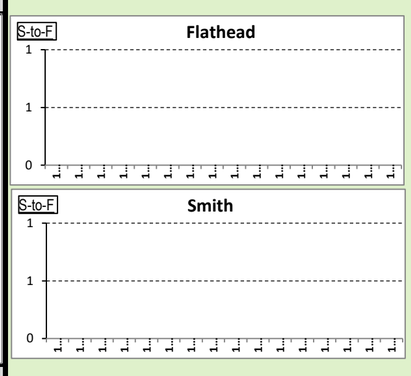
Precipitation with Trend Line, SWE with Trend Line and 'Select Rivers' with Trendline

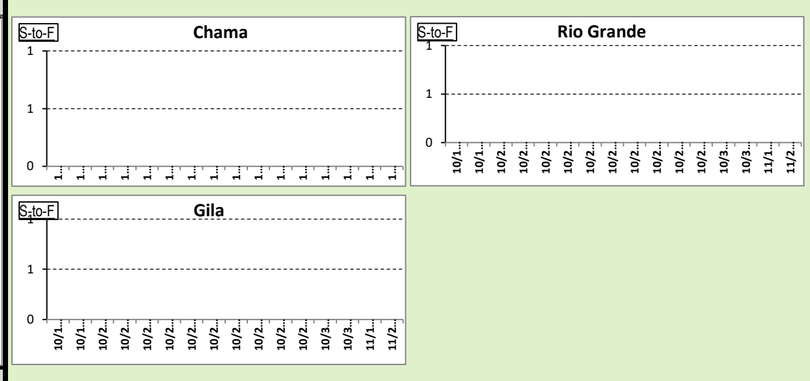
(In future, compute snotel percent of average temp and plot red.)

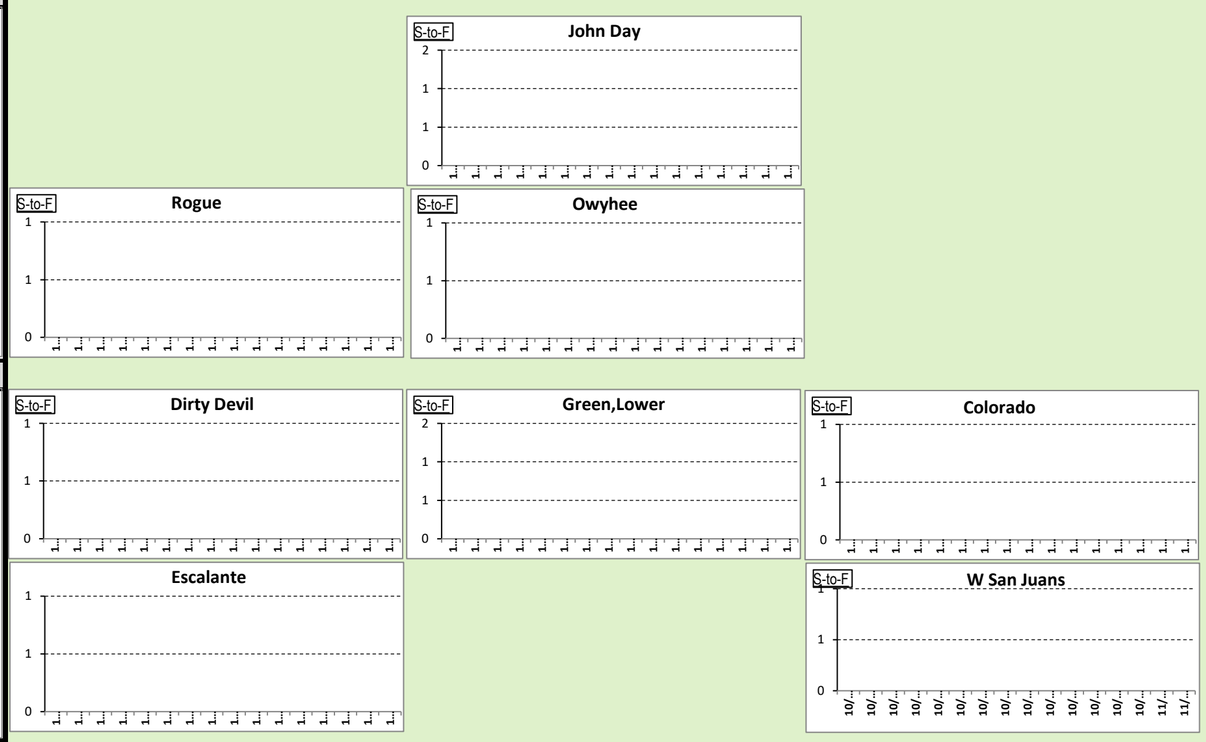


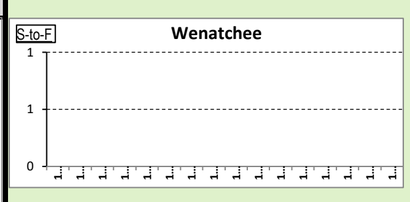


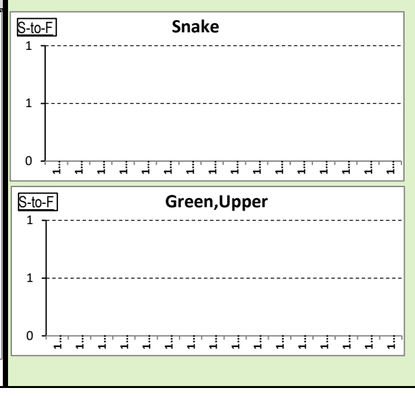


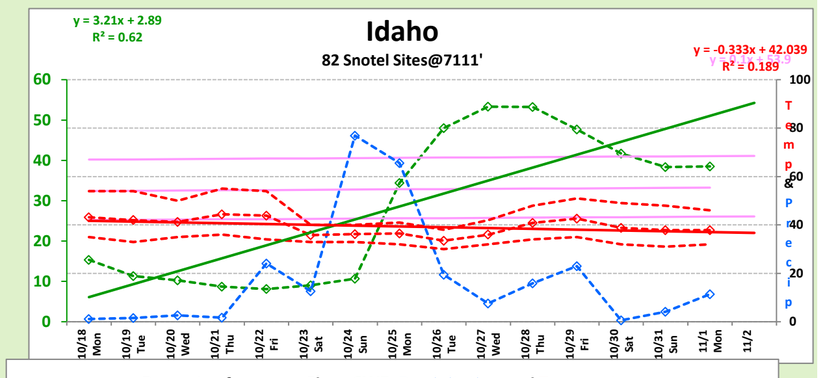
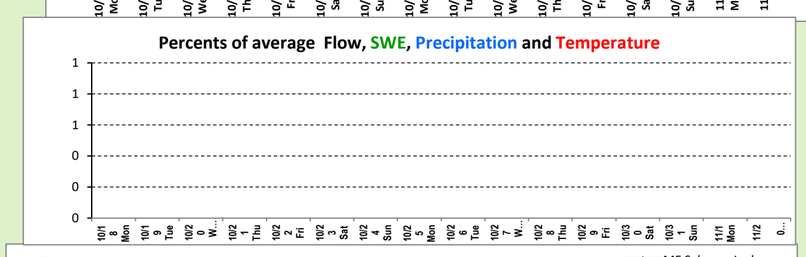
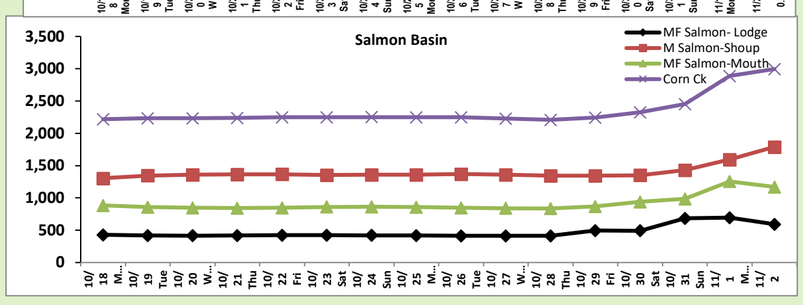










EXPERIMENTAL(magenta data fabricated)

Temperatures(Min, Average with Trendline, Max), Temperatures(Average Min, Average, Max)
Precipitation and SWE with Trendline