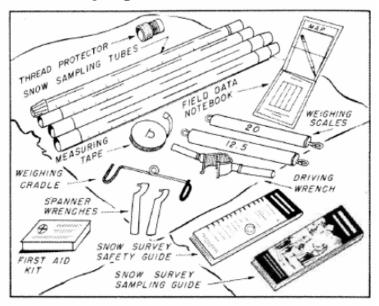


# California Water Supply Outlook Report January 1, 2022

### **Snow Sampling Kit**









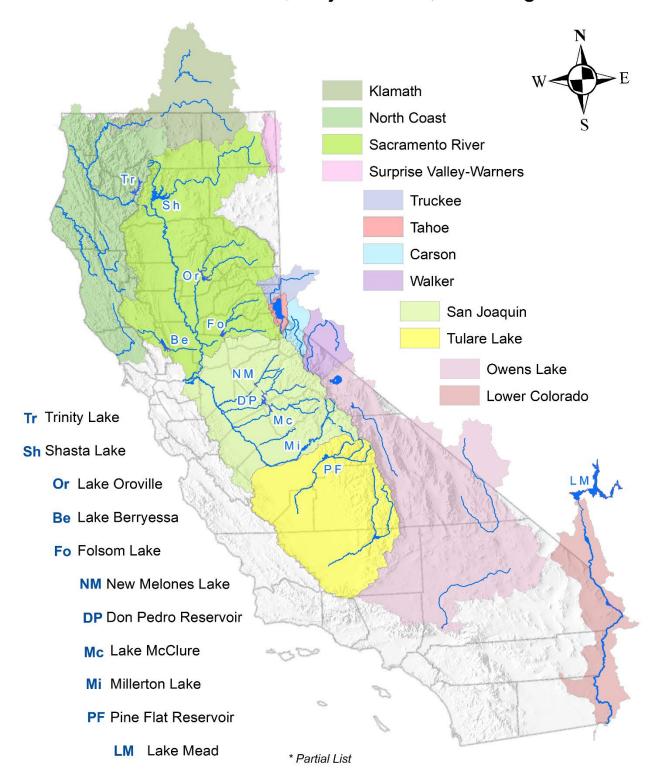
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<u>Cover</u>: From the Snow Survey Sampling Guide (USDA- Agricultural Handbook 169). Visit <u>NRCS' Water and Climate Center's Publications site</u> for more information.

### California Forecast Basins, Major Rivers, and Large Reservoirs\*



## STATE OF CALIFORNIA GENERAL OUTLOOK January 1, 2022

#### **NEW 1991-2020 MEDIANS**

On October 1, 2021 the NRCS updated its 30-year normals period, shifting it from 1981-2010 to 1991-2020. The normals available from the National Water and Climate Center (NWCC) include the median and average for Snow Water Equivalent (SWE), snow depth (snow courses only), precipitation, volumetric streamflow, and reservoir storage. Values are calculated from data collected by NRCS-managed stations and external agencies such as the U.S. Geological Survey (USGS), National Weather Service (NWS), state agencies, and private organizations. Normals are calculated for various durations including daily, month-to-date, semi-monthly, monthly, seasonal, and annual based on the data type.

The 1991-2020 normals update may have shifted the reported median values compared to those in previous reports for one or both of the following reasons: 1) the underlying data used to compute the statistics are not the same between the two 30-year periods; and 2) Calculation methods for 1991-2020 have also been updated. Therefore, caution is recommended when making inferences from comparisons between the 1991-2020, 1981-2010, and 1971-2000 normals. More information is available online at <a href="https://www.nrcs.usda.gov/wps/portal/wcc/home/snowClimateMonitoring/30YearNormals/">https://www.nrcs.usda.gov/wps/portal/wcc/home/snowClimateMonitoring/30YearNormals/</a>.

#### **SNOWPACK**

Snow gages in the northern-, central-, and southern mountains recorded snow water equivalents on December 31<sup>st</sup> that averaged 144-, 158-, and 172 percent of normal for the date, respectively. Since the beginning of the calendar year, the statewide average snowpack has dropped slightly, from 157 percent on December 31<sup>st</sup>, to 128 percent on January 14<sup>th</sup>.

More information is available online at http://cdec.water.ca.gov/snow/current/snow/index2.html.

#### **PRECIPITATION**

The Water Year started strong, with the Northern Sierra-, San Joaquin-, and Tulare Basin Index stations receiving 453-, 314-, and 216 percent of their monthly averages in October. November totals were below average in all three regions, but a wet December helped keep seasonal totals to between 120-140 percent of their January 14<sup>th</sup> average.

More information is available online at http://cdec.water.ca.gov/snow rain.html

#### **RESERVOIRS**

Total reservoir storage (excluding Lake Powell and Lake Mead) on December 31<sup>st</sup> was 86 percent of average, compared to 75 percent of average at the end of 2020. Storage at Shasta Reservoir was 73 percent of average at the end of 2020, down from 119 percent last year. Don Pedro Reservoir was 102 percent of average at the end of 2020, down from 122 percent of average last year. In the Colorado River Basin, the combined reservoir storage in Lake Powell and Lake Mead is 67 percent of its historical average.

More information is available online at http://cdec.water.ca.gov/snow/reservoir ss.html.

#### **STREAMFLOW**

NWS forecasts in the Sacramento, San Joaquin, and Tulare basins range between 62- and 133 percent of the 1991-2020 average between April and July. NRCS forecasts in the Tahoe, Truckee, Carson, and Walker River basins are all well above the 1999-2020 median. NRCS forecasts for stations in the Klamath Basin are above the median, while the NWS forecasts for the North Coast remain below the median. Summaries are provided below.

### **SACRAMENTO RIVER BASIN**

National Weather Service (NWS) streamflow forecasts at 14 sites in the Sacramento River Basin range between 62- and 133 percent of the 1991-2020 median between April and July (APR-JUL).

	-	F			abilities For Ris ume will exceed		nt	_
Sacramento River	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Inflow to Shasta Lk (NWS)								
	APR-JUL	935	1100	1400	81%	2080	2450	1738.5
MF American R nr Auburn	APR-JUL	405	535	615	126%	840	980	489.8
Sacramento R nr Red Bluf	f (NWS) APR-JUL	1340	1640	2090	69%	2990	3600	3026
Pit R at Shasta Lk (NWS)	APR-JUL	480	535	670	62%	875	1120	1080.2
Silver Ck bl Camino Div. D	am (NWS) APR-JUL	133	169	210	133%	265	330	157.6
Inflow to Oroville Res (NW	S) APR-JUL	755	1100	1520	99%	2250	3030	1533.3
Inflow to Folsom Res (NW	S) APR-JUL	875	1170	1410	118%	2020	2400	1195.3
Yuba R at Smartville (NWS	S) APR-JUL	575	825	1070	113%	1480	1860	949.9
Inflow to Union Valley Res	(NWS) APR-JUL	76	98	122	125%	153	187	97.5
N Yuba R bl Goodyears Ba	ar (NWS) APR-JUL	174	250	330	121%	425	525	272.3
Sacramento R at Shasta (N	NWS) APR-JUL	132	170	260	88%	435	555	296.6
Cosumnes R at Michigan E	Bar (NWS) APR-JUL	56	89	128	105%	215	295	121.5
McCloud R ab Shasta (NW		220	255	315	84%	455	520	374.5
NF Feather R nr Prattville		140	200	245	86%	310	370	283.6

<sup>1) 90%</sup> And 10% exceedance probabilities are actually 95% And 5%

<sup>2)</sup> Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

### **SAN JOAQUIN RIVER BASIN**

National Weather Service (NWS) streamflow forecasts at seven sites in the San Joaquin River Basin are all above the 1991-2020 median between April and July (APR-JUL).

	_	F	Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast							
San Joaquin R	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)		
Tuolumne R nr Hetch He	tchy (NWS)									
	ÁPR-JUĹ	490	610	750	124%	930	1020	605.2		
Inflow to New Melones R	es (NWS)									
	APR-JUL	425	585	770	115%	1060	1280	672.1		
Inflow to Millerton Lk (NW	/S)									
	APR-JUL	880	1170	1540	124%	1950	2300	1238.4		
Inflow to New Don Pedro	Res (NWS)									
	APR-JUL	825	1120	1460	121%	1880	2220	1208.3		
Merced R at Pohono Brid	ge Yosemite (N	NWS)								
	APR-JUL	295	360	465	122%	585	690	382.3		
Inflow to Lake McClure (N	NWS)									
	APR-JUL	385	500	705	115%	865	1120	610.6		
Inflow to Pardee Res (NV	VS)									
	APR-JUL	275	380	485	109%	675	825	443.5		

<sup>1) 90%</sup> And 10% exceedance probabilities are actually 95% And 5% 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

### **TULARE LAKE BASIN**

National Weather Service (NWS) streamflow forecasts at four sites in the Tulare Lake Basin range between 85- and 118 percent of the 1991-2020 median between April and July (APR-JUL).

	<u>-</u>	Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast						_
Tulare Lake	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Kaweah R at Terminus	Res (NWS)							
	ÀPR-JÚL	182	235	320	113%	440	550	282.1
Inflow to Pine Flat Res	(NWS)							
	APR-JUL	865	1120	1440	118%	1770	2130	1222.8
Tule R at Success Res	(NWS)							
	APR-JUL	24	37	58	96%	90	129	60.3
Inflow to Isabella Res (I	NWS)							
	APR-JUL	205	280	385	85%	580	800	455.3

<sup>1) 90%</sup> And 10% exceedance probabilities are actually 95% And 5%

<sup>2)</sup> Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

### **NORTH COASTAL AREA BASIN**

Streamflow forecasts for the two NWS sites in the North Coastal Area Basin between April and July (APR-JUL) are below the 1991-2020 median.

	_	F	Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast					
North Coast	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Inflow to Clair Engle Lk	(NWS) APR-JUL	230	330	470	71%	735	935	666.1
Scott R nr Fort Jones (N	7	230	330	470	7 1 70	733	933	000.1
(.	APR-JUL	40	60	93	56%	178	210	167

<sup>1) 90%</sup> And 10% exceedance probabilities are actually 95% And 5%

<sup>2)</sup> Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

### **KLAMATH BASIN**

Including information from the Water Supply Outlook Report for Oregon (https://www.nrcs.usda.gov/wps/portal/nrcs/main/or/snow/):

As of January 1, the basin snowpack is 118 percent of median.

December precipitation was 104 percent of median. Precipitation since the beginning of the water year (October 1 - January 1) has been 99 percent of median.

The March through September (MAR-SEP) streamflow forecasts at selected gages in the basin range from 115- to 123 percent of the 1999-2020 median.

	_	F	<b>-</b>					
Klamath River	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Sprague R nr Chiloquin								
	JAN-SEP	185	275	345	133%	425	560	260
	MAR-SEP	129	205	265	123%	330	445	215
Upper Klamath Lake Inflo	W <sup>11,2</sup>							
• •	JAN-SEP	405	710	850	114%	990	1290	745
	MAR-SEP	280	485	580	115%	670	880	505
Gerber Reservoir Inflow <sup>2</sup>								
	JAN-JUN	29	44	54	164%	64	79	33
Williamson R bl Sprague R nr Chiloquin								
	JAN-SEP	330	460	545	116%	630	760	470
	MAR-SEP	265	360	420	117%	485	580	360

<sup>1) 90%</sup> And 10% exceedance probabilities are actually 95% And 5%

<sup>2)</sup> Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

### **LAKE TAHOE BASIN**

### From the Water Supply Outlook Report for Nevada

(https://www.nrcs.usda.gov/wps/portal/nrcs/main/nv/snow/):

Snowpack in the Lake Tahoe Basin is well above normal at 213 percent of median, compared to 85% at this time last year. Precipitation in December was well above normal at 245 percent, which brings the seasonal accumulation (October-December) to 223% of median. Soil moisture is at 61 percent saturation compared to 32 percent saturation last year. Reservoir storage is 20 percent of capacity, compared to 44 percent last year.

	_	Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast						
Tahoe	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Lake Tahoe Net Inflow	MAR-JUL	270	375	450	324%	525	630	139
	APR-JUL	205	290	350	347%	410	495	101
Lake Tahoe Rise <sup>1</sup> (ft)								
	OCT-HIGH MAR-HIGH APR-HIGH	1.68 0.91 0.80	3.4 2.0 1.50	4.2 2.5 1.90	215% 168% 160%	5.0 3.0 2.1	6.7 4.1 3.1	1.95 1.49 1.19
Marlette Lake Inflow								
	MAR-JUL APR-JUL	1.03 0.86	1.69 1.41	2.1 1.78	375% 445%	2.6 2.2	3.2 2.7	0.56 0.4

<sup>1) 90%</sup> And 10% exceedance probabilities are actually 95% And 5%

<sup>2)</sup> Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

### TRUCKEE RIVER BASIN

Including information from the Water Supply Outlook Report for Nevada (<a href="https://www.nrcs.usda.gov/wps/portal/nrcs/main/nv/snow/">https://www.nrcs.usda.gov/wps/portal/nrcs/main/nv/snow/</a>):

Snowpack in the Truckee River Basin is well above normal at 236 percent of median, compared to 88% at this time last year. Precipitation in December was well above normal at 223 percent, which brings the seasonal accumulation (October-December) to 218 percent of median. Soil moisture is at 58 percent saturation compared to 22 percent saturation last year. Reservoir storage is 40 percent of capacity, compared to 38 percent last year.

	-	Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast						
Truckee	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
I. Twiskes Dab Dass Da	?							
L Truckee R ab Boca Re	MAR-JUL APR-JUL	116 35	163 102	196 130	228% 181%	230 158	275 199	86 72
Independence Lk Inflow <sup>2</sup>								
	MAR-JUL APR-JUL	12.9 11.5	17.2 15.6	20 18.3	175% 174%	23 21	27 25	11.4 10.5
Donner Lake Inflow <sup>2</sup>								
	MAR-JUL APR-JUL	25 18.3	30 23	34 26	177% 173%	38 29	43 34	19.2 15
Truckee R ab Farad Side								
	MAR-JUL APR-JUL	106 89	155 133	187 162	176% 180%	220 192	270 235	106 90
Boca Res Local Inflow <sup>2</sup>								
	MAR-JUL APR-JUL	10.1 3.1	15.3 6.6	18.8 9	427% 592%	22 11.4	28 14.9	4.4 1.52
Stampede Res Local Inf	low <sup>2</sup>							
	MAR-JUL APR-JUL	87 70	120 102	143 123	207% 208%	165 144	199 176	69 59
Galena Ck at Galena Ck	State Pk							
	MAR-JUL APR-JUL	5 4.5	6.6 6	7.6 7	173% 175%	8.6 8	10.2 9.5	4.4 4
Steamboat Ck at Steamb								
	MAR-JUL APR-JUL	3.1 2.5	8.1 6.5	12.7 10.3	470% 490%	18.5 15	29 24	2.7 2.1
Martis Ck Res Inflow <sup>2</sup>								
	MAR-JUL APR-JUL	12.1 8.6	17.6 13.1	21 16.1	236% 282%	25 19.2	30 24	8.9 5.7
Sagehen Ck nr Truckee								
	MAR-JUL APR-JUL	5.5 4.8	8.7 7.8	10.9 9.8	227% 239%	13.1 11.8	16.3 14.8	4.8 4.1
Prosser Ck Res Inflow <sup>2</sup>								
	MAR-JUL APR-JUL	46 38	63 53	75 64	179% 183%	86 74	103 90	42 35
Truckee R at Farad <sup>2</sup>								
	MAR-JUL APR-JUL	330 140	425 230	490 370	185% 164%	555 430	650 515	265 225

<sup>1) 90%</sup> And 10% exceedance probabilities are actually 95% And 5%

<sup>2)</sup> Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

### **CARSON RIVER BASIN**

Including information from the Water Supply Outlook Report for Nevada (https://www.nrcs.usda.gov/wps/portal/nrcs/main/nv/snow/):

Snowpack in the Carson River Basin is well above normal at 199 percent of median, compared to 85 percent at this time last year. Precipitation in December was well above normal at 271 percent, which brings the seasonal accumulation (October-December) to 217 percent of median. Soil moisture is at 56 percent saturation compared to 24 percent saturation last year. Reservoir storage is 20 percent of capacity, compared to 23 percent last year.

	-	F	_					
Carson	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
EF Carson R nr Gard	Inerville							
	MAR-JUL	225	305	360	196%	415	495	184
	APR-JUL	198	270	320	195%	370	440	164
WF Carson R nr Woo	odfords							
	MAR-JUL	61	84	100	200%	116	139	50
	APR-JUL	52	74	89	198%	104	126	45

<sup>1) 90%</sup> And 10% exceedance probabilities are actually 95% And 5%

<sup>2)</sup> Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

### **WALKER RIVER BASIN**

Including information from the Water Supply Outlook Report for Nevada (<a href="https://www.nrcs.usda.gov/wps/portal/nrcs/main/nv/snow/">https://www.nrcs.usda.gov/wps/portal/nrcs/main/nv/snow/</a>):

Snowpack in the Walker River Basin is well above normal at 228 percent of median, compared to 65 percent at this time last year. Precipitation in December was well above normal at 323 percent, which brings the seasonal accumulation (October-December) to 238 percent of median. Soil moisture is at 48 percent saturation compared to 16 percent saturation last year. Reservoir storage is 36 percent of capacity, compared to 21 percent last year.

	_	F	_					
Walker	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
E Walker R nr Bridgepo	rt <sup>2</sup>							
<b>.</b>	MAR-AUG	47	89	117	229%	145	187	51
	APR-AUG	45	84	110	250%	136	175	44
W Walker R nr Coleville	•							
	MAR-JUL	183	245	285	185%	325	385	154
	APR-JUL	172	230	270	184%	310	365	147
W Walker R bl L Walker	r R nr Coleville							
	MAR-JUL	184	245	285	179%	330	390	159
	APR-JUL	174	235	275	180%	315	375	153

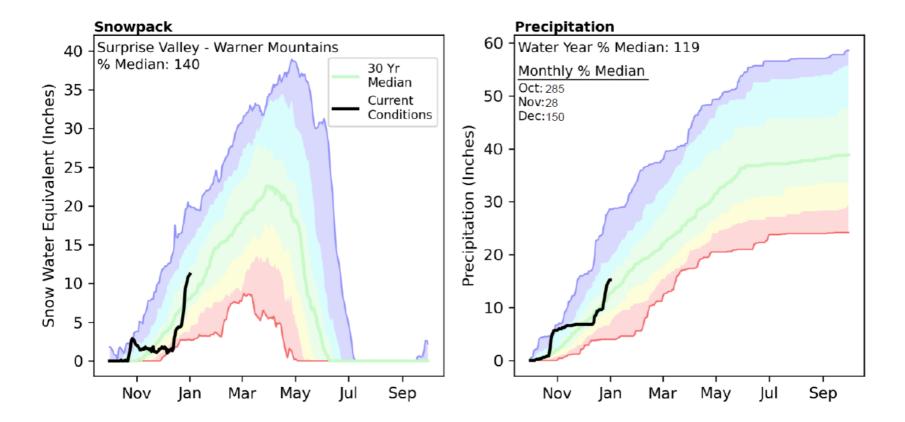
<sup>1) 90%</sup> And 10% exceedance probabilities are actually 95% And 5%

<sup>2)</sup> Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

## **SURPRISE VALLEY-WARNER MOUNTAINS January 1, 2021**

Provided by Jeff Anderson, Hydrologist, NRCS Nevada Snow Survey:

Snowpack in the Surprise Valley - Warner Mountains is well above normal at 140 percent of median, compared to 91 percent at this time last year. Precipitation in December was well above normal at 150 percent, which brings the seasonal accumulation (October-December) to 119 percent of median.



Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th percentiles. For more information visit: 30 year normal calculation description

### LOWER COLORADO RIVER BASIN

Including information from the Water Supply Outlook Report for Nevada (<a href="https://www.nrcs.usda.gov/wps/portal/nrcs/main/nv/snow/">https://www.nrcs.usda.gov/wps/portal/nrcs/main/nv/snow/</a>):

Reservoir storage in Lake Mead at the end of 2021 was at 34 percent of capacity, down 1410 thousand acre-feet (KAF) from this time last year when it was at 39 percent capacity. Snowpack in the Colorado River Basin above Glen Canyon Dam is 131 percent of the January 1 median, compared to 77 percent last year. The forecast streamflow volume for Lake Powell Inflow is 118 percent of the 1991-2020 median for April through July.

Reservoir Storage End of December, 2021	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Lake Powell	6713.1	10130.0	13921.0	24322.0
Lake Mead	8918.2	10328.0	15014.0	26159.0
Lake Mohave	1573.0	1581.0	1608.0	1810.0

### Basin Index # of reservoirs

Watershed Snowpack Analysis January 1, 2022	# of Sites	% Median	Last Year % Median
White Headwaters	1	143%	32%
Virgin	9	218%	47%
Upper Colorado	129	131%	77%

	-	Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast						_
Lower Colorado	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Lake Powell Inflow <sup>2</sup>	APR-JUL	3890	5750	7230	118%	8880	11600	6130

<sup>1) 90%</sup> And 10% exceedance probabilities are actually 95% And 5%

<sup>2)</sup> Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

#### **HOW FORECASTS ARE MADE**

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snowcourses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

This publication is posted with other Water Supply Outlook Reports for California at: <a href="https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ca/snow/">https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ca/snow/</a>.

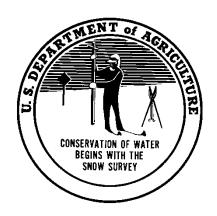
For questions, contact Greg Norris, California NRCS, at <a href="mailto:Greg.Norris@usda.gov">Greg.Norris@usda.gov</a>

Issued by

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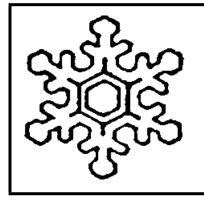
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Davis, CA



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California Water Supply Outlook

