

Water Supply Forecast - Merced River Yosemite at Pohono Bridge

Issue Date: 2023-03-15

Forecast Period: Apr-Jul

Figure 1: Water supply forecast and uncertainty bounds

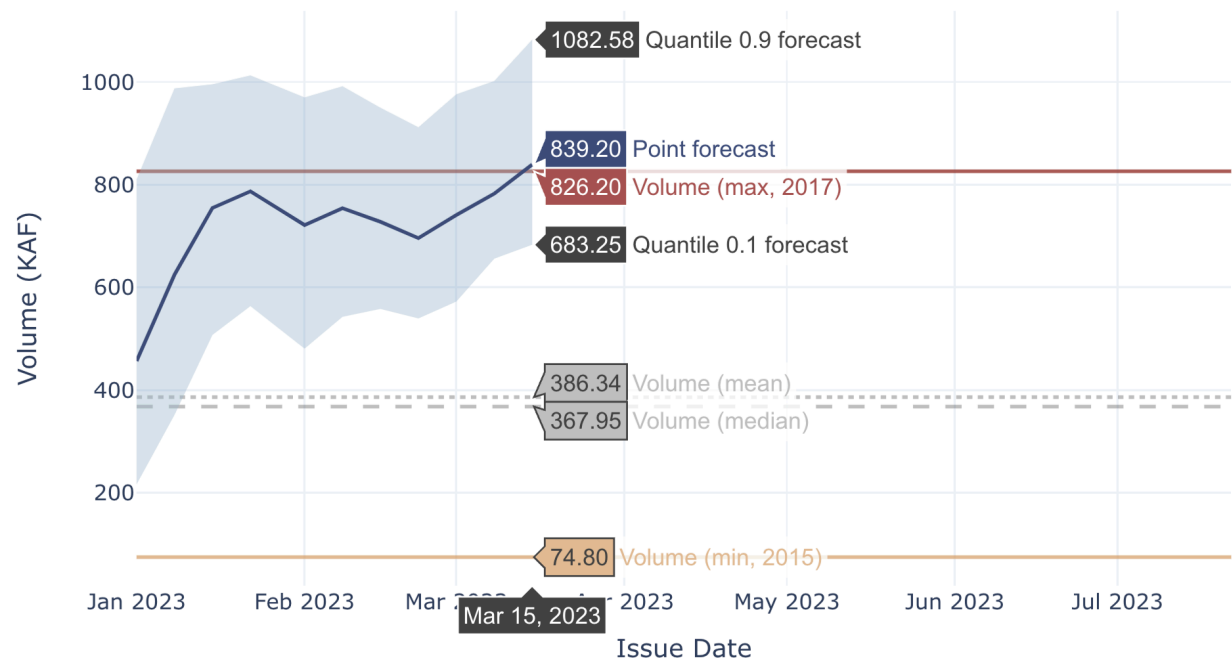


Table 1: Feature (predictor) of water supply and explainability

Feature	Issue Date: 2023-03-15					Previous Issue Date: 2023-03-08			
	Value	% Feature contribution				Value	% Feature contribution		
		Q0.5	Q0.1	Q0.9	Rel		Q0.5	Q0.1	Q0.9
Base		15.5%	12.2%	11.2%	0.69		17.5%	12.3%	15.9%
Snowpack		58.1%	59.2%	72.9%	1.15		57.4%	61.1%	69.2%
SNOTEL/CDEC	241%	26.4%		29.1%	1.17	213%	25.7%		27.7%
UA-SWANN	262%-297%	18.0%	18.7%	43.8%	1.07	229%-263%	18.1%	19.7%	41.5%
ERA5-Land	237%	13.7%	40.4%		1.22	213%	13.6%	41.3%	
Precipitation		9.9%	4.6%	15.9%	1.40		8.5%	3.8%	14.9%
SNOTEL/CDEC	154%	4.1%		2.1%	1.90	139%	3.1%		1.2%
UA-SWANN	190%-200%	5.8%	4.6%	13.8%	1.18	172%-180%	5.5%	3.8%	13.7%
Drought		5.2%	5.2%		0.75		4.1%	3.0%	
PDSI	0.58	3.2%	1.4%		0.64	0.46	2.3%	0.7%	
Soil water	98%-100%	2.0%	3.9%		1.03	90%-99%	1.7%	2.2%	
Others		2.9%	6.3%		0.80		3.6%	7.2%	
Temperature	-1.49	0.4%	0.1%		0.91	-7.04	0.2%	0.1%	
Snow cover	100% (97%)	1.3%	5.1%		1.09	100% (98%)	1.3%	5.4%	
Snow albedo	110%	0.8%	0.9%		0.96	108%	1.4%	1.3%	
Leaf area index	2.26-3.06	0.3%	0.2%		0.29	2.26-3.06	0.6%	0.3%	
SEAS51 Forecast		8.5%	12.5%		0.91		8.9%	12.7%	
Snowpack	253%-277%	4.6%	9.3%		1.00	253%-277%	4.8%	9.4%	
Precipitation	109%-136%	2.8%	2.4%		1.45	109%-136%	3.0%	2.5%	
Temperature	-2.54; -2.27	1.1%	0.8%		0.41	-2.54; -2.27	1.1%	0.8%	