

Current Conditions – Groundwater and Surface Water

June 30, 2021

Presented by: Nick Stasulis

Data Section Chief

What is Normal?

- Ranges computed based on historical values
- Done daily, weekly, monthly, annually
- Period of record provided in plots/tables
- Not a forecast, but one of the many factors for identifying risk using historical perspective



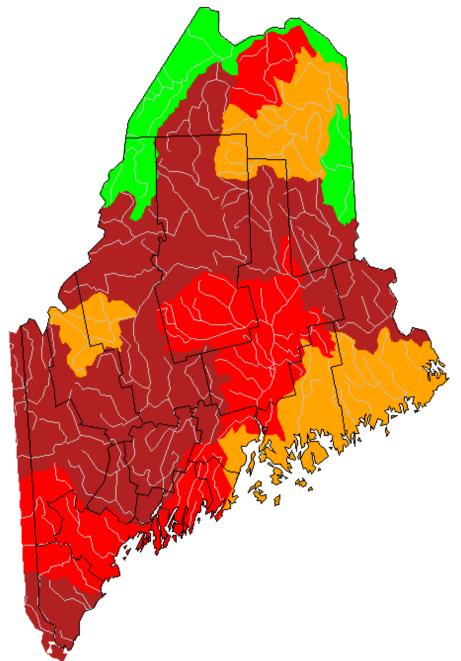
Flow or Water Level	Percentile Range
Low	0^{th}
Much below normal	0 th to 10 th
Below normal	10 th to 25 th
Normal	25 th to 75 th
Above normal	75 th to 90 th
Much above normal	90 th to 100 th
High	100 th



Current Real- Time Streamflow

Plots based on daily data

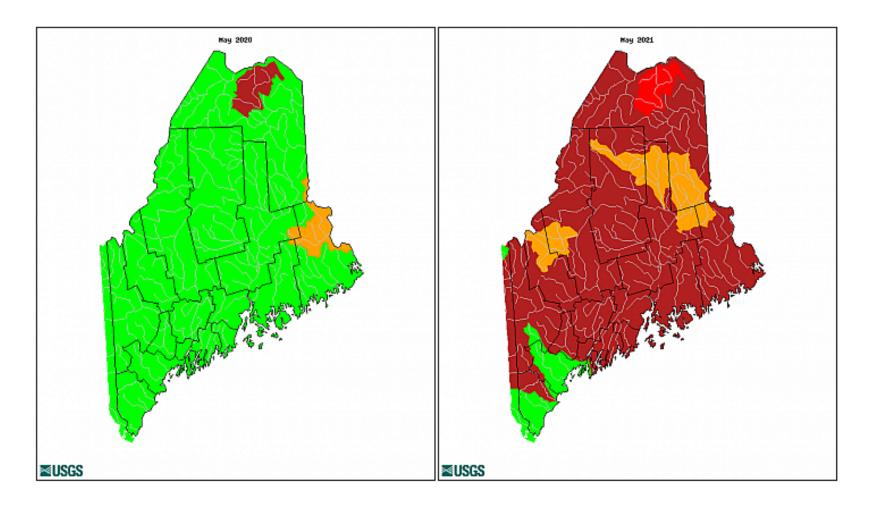
Explanation - Percentile classes								
•								
Low	<10	10-24	25-75	76-90	>90	Llink		
	Much below normal	Below normal	Normal	Above normal	Much above normal	High		





Date (YYYYMM): 202005

Date (YYYYMM): 202105



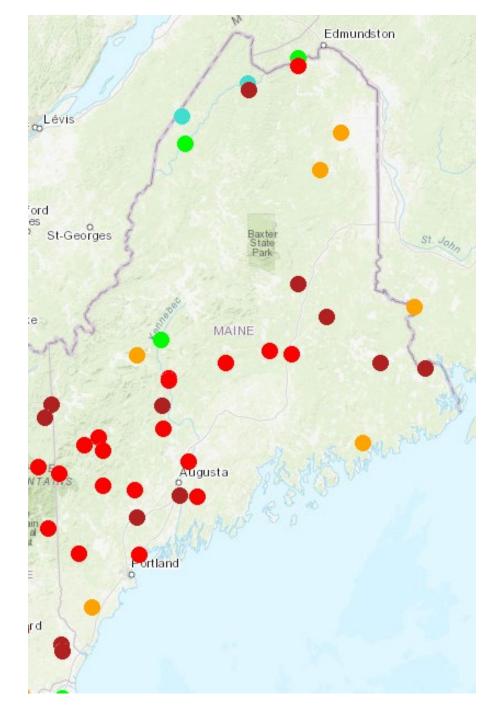
Explanation - Percentile classes								
Low	<10	10-24	25-75	76-90	>90	High	No Dete	
LOW	Much below normal	Below normal	Normal	Above normal	Much above normal	_	No Data	



- > Real time data as of June 29
- Only 5 stations in Maine are normal or above normal
- ➤ Of stations with 30+ years of record, half are the lowest they have ever been for June 29

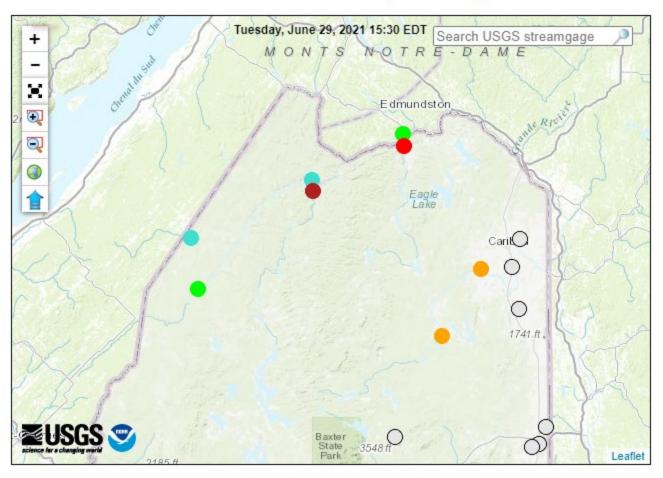
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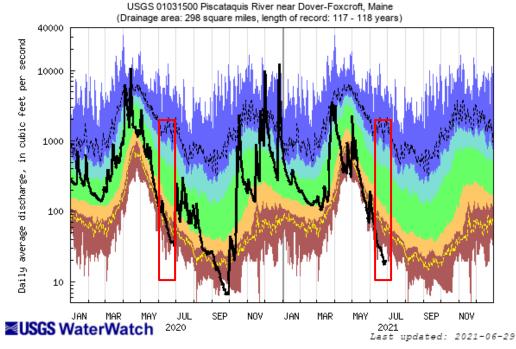


Map of real-time streamflow compared to historical streamflow for the day of the year

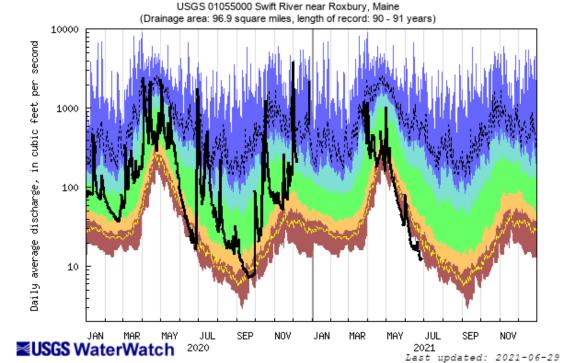


		Explar	nation - F	Percent	ile classe	s	
•		0	•		•	•	0
Low	<10	10-24	25-75	76-90	>90	High	Not realize
Low	Much below normal	Below normal	Normal	Above	Much above normal		Not-ranked





- Spring peak occurred ~1 month early, low magnitude statewide
- June 2021 flows are lower than June 2020 flows overall



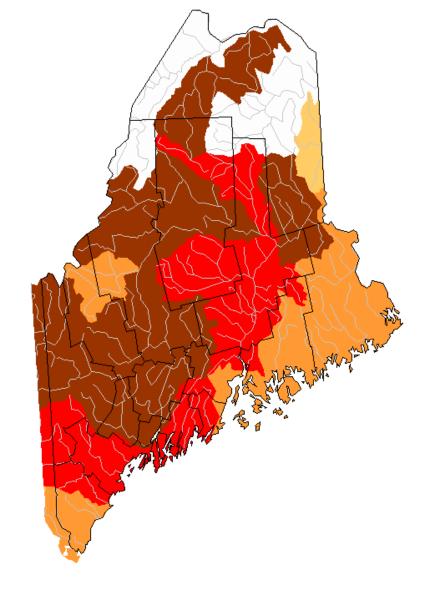
	Е	xplana	tion - Pe	rcentile	classes	S	
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Flow
Much below	Normal	Below normal	Normal	Above normal	Much above normal		1 low

Surface Water Hydrologic Drought

Explanation - Percentile classes

Low <=5 6-9 10-24

Extreme hydrologic drought drough

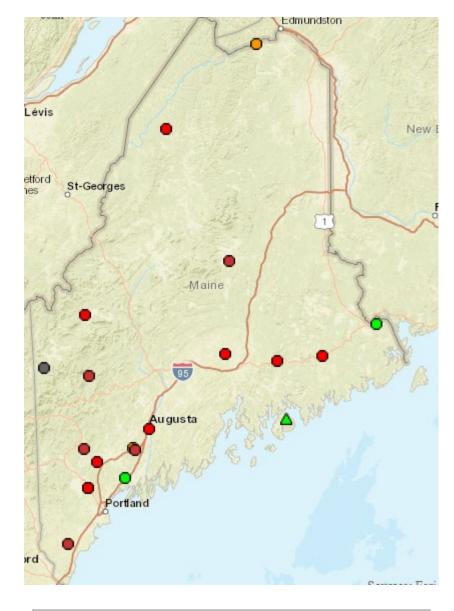




Plots based on 7-day daily data

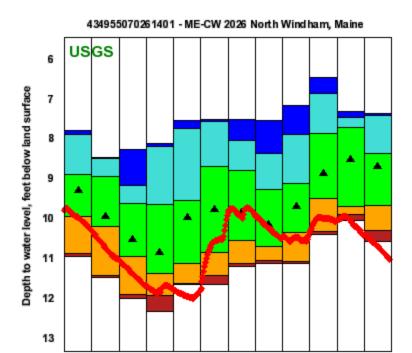
Current Real-Time Groundwater

 Only Calais and Brunswick wells are in the normal range



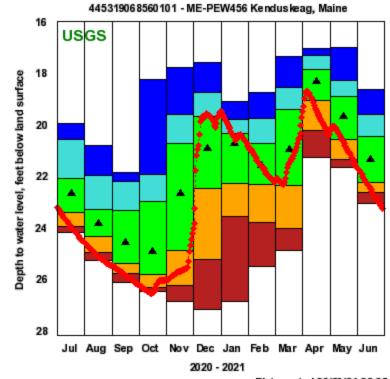
Explanation - Percentile classes								
•		•	•			•		
Low	<10	10-24	25-75	76-90	>90	Lliab		
Low	Much below normal	Below normal	Normal	Above normal	Much above normal	High		



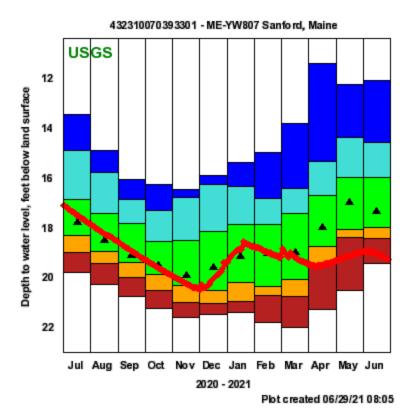


Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun 2020 - 2021

Plot created 06/29/21 08:05









Summary

- Surface Water Flows are lower for May 2021 than May 2020, and spring flows were lower and earlier than normal.
- Ground water levels are below normal across the state.
 Some wells showed little to no recharge in the spring and receding quickly.



Contact/More Information

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