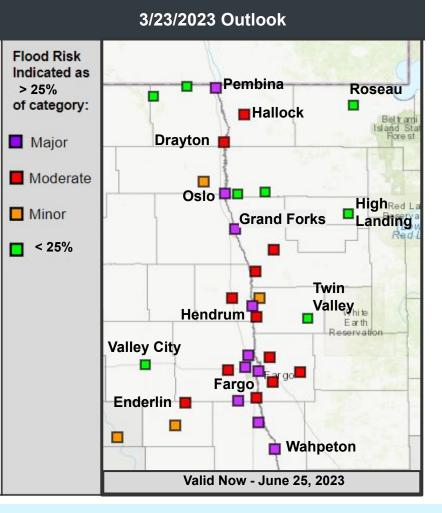
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Key Message

- Flood risk is above long-term historical averages across the mainstream Red River and southeastern ND
 - Top 10 flood possible for some locations
- Slightly greater than normal risk for MN tributaries with lower than normal risk for northeast ND tributaries
- Significant overland flooding is also possible in addition to river flooding
- Note: The map on the right depicts the > 25% probability of reaching the depicted flood categories from the March 23, 2023 outlook. Based on the delayed melt and recent precipitation, these numbers are likely now more representative of the overall flood threat than the 50% numbers.



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Key Points

- The outlook probabilities issued on March 23rd remain valid and should be used for flood preparations. However with recent precipitation, the focus for preparedness operations should shift right on the graph toward the lower probabilities (50%-25% and lower) with the higher stage values.
- Snowpack ripening and melting expected to be underway next week.

Snowmelt Outlook Discussion:

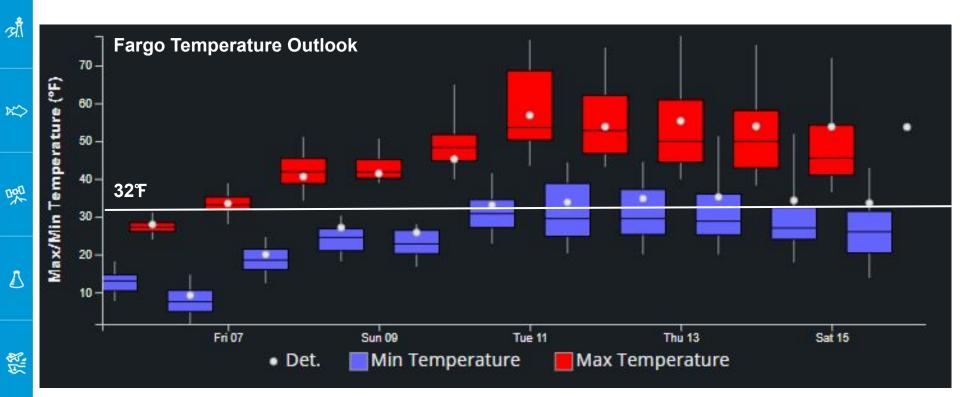
Temperatures: Warmer temperatures are expected by this weekend and much of next week. These temperatures will ripen the snowpack and allow the melt process to begin in earnest by late next week. As temperatures continue to warm toward the middle of the month, the melt process will become more rapid.

Precipitation: Dry and quiet weather conditions are expected through this weekend and into early next week. By late next week and into next weekend, precipitation chances return to the area. The timing, amounts, and type of precipitation and how it could impact snowmelt runoff is unknown at this time.

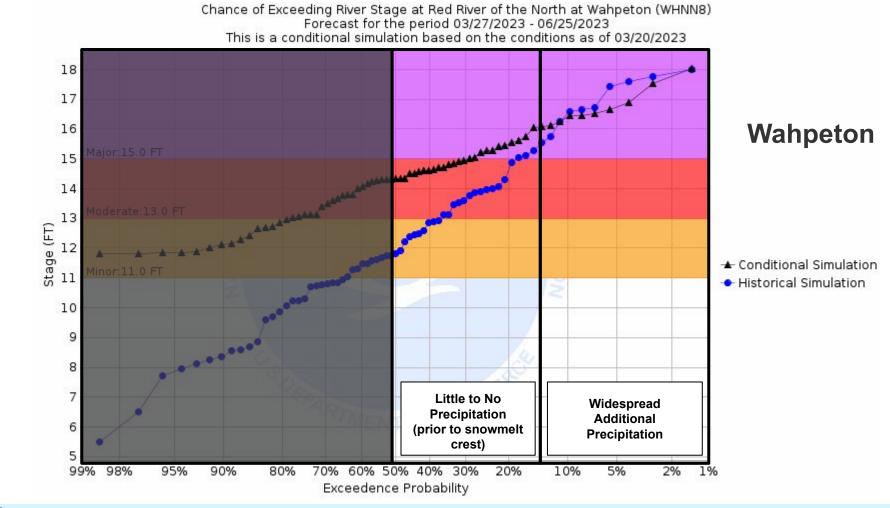
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Temperature Outlook



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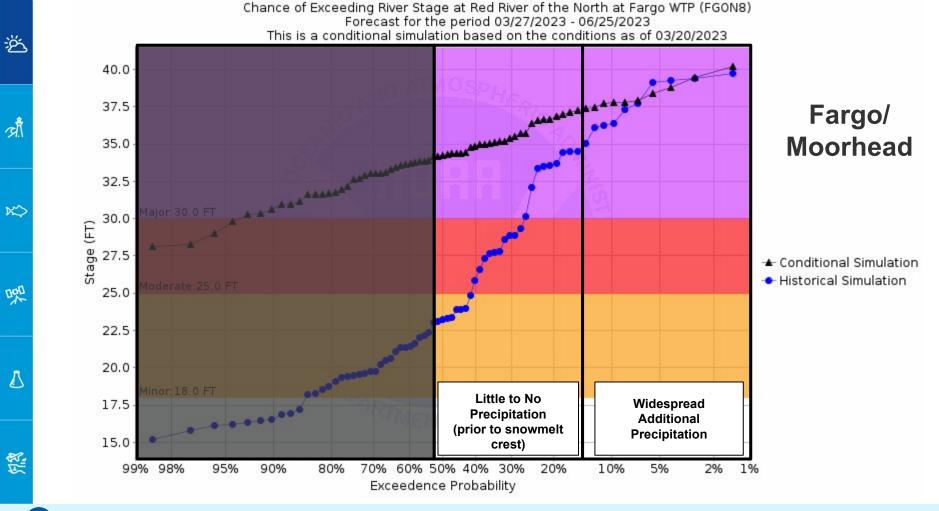
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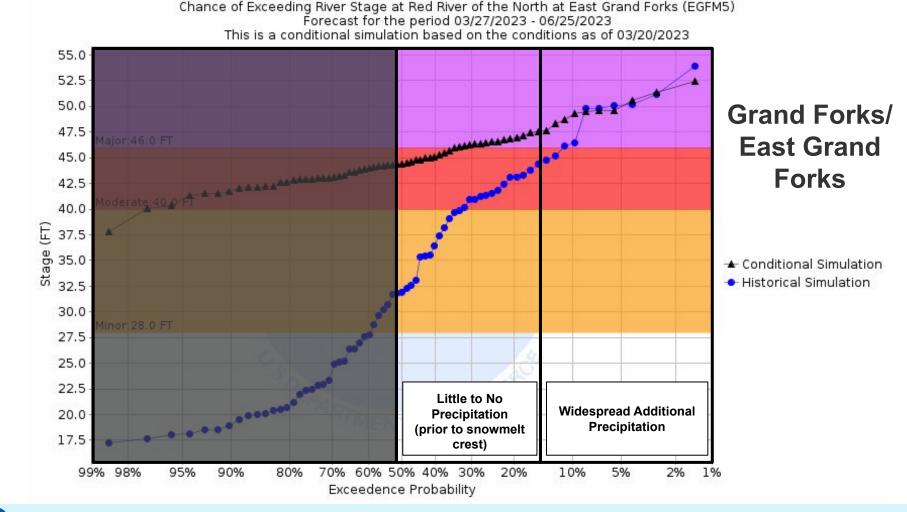
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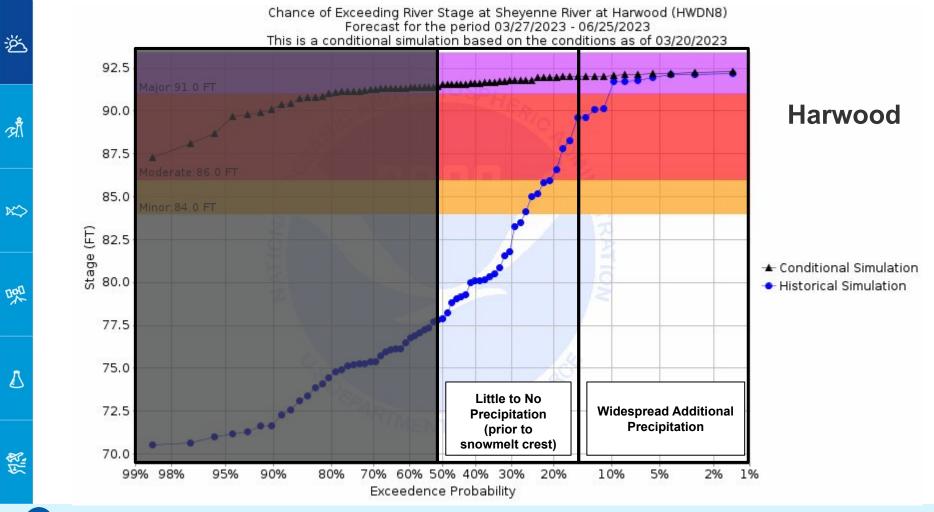
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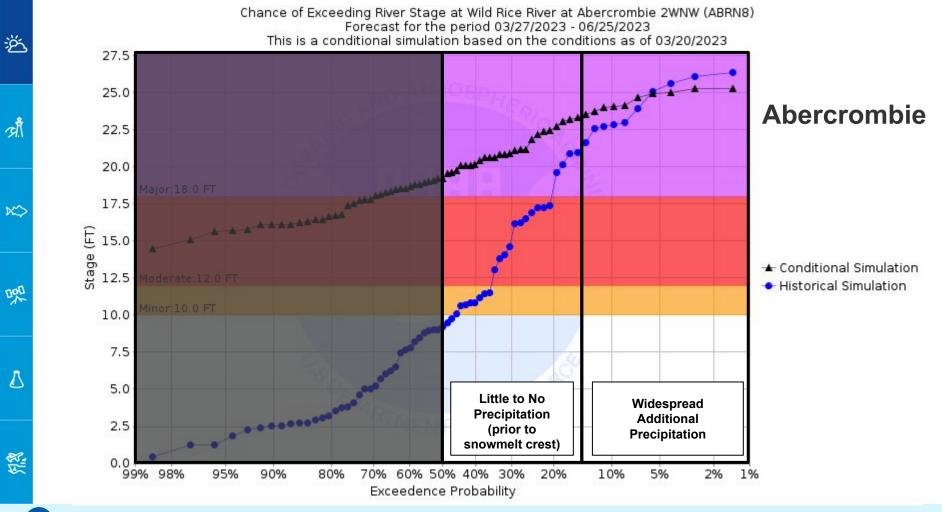
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	V	alid Mar	ch 27, 20	023 - Jur	ie 25, 202	23					
RED RIVER MAINSTEM	95%	90%	75%	50%	25%	10%	5%				
Wahpeton	11.9	12.1	13.1	14.3	15.3	16.4	16.8				
Hickson	27.5	28.1	30.4	32.6	34.0	35.4	36.3				
Fargo	29.5	30.7	32.7	34.2	36.4	37.8	38.6				
Halstad	32.5	33.7	35.7	38.2	39.5	39.9	40.2				
Grand Forks	41.0	41.8	42.9	44.4	46.5	49.2	50.0		l.		
Oslo	35.0	35.3	35.7	36.3	37.3	38.4	38.7	Legend: Below Flood Stage			
Drayton	38.6	39.5	40.1	40.8	41.8	42.9	43.5		lou Stage		
Pembina	45.6	46.8	47.7	49.6	50.9	52.3	52.8	Mode			
NORTH DAKOTA TRIBUTARIES	95%	90%	75%	50%	25%	10%	5%		jor		
 Wild Rice River								*Flood of			
Abercrombie	15.7	16.1	17.5	19.2	21.8	24.0	25.0				
Sheyenne River	15.7	10.1	17.5	19.2	21.0	24.0	25.0				
Valley City	11.6	12.0	12.6	13.3	14.3	18.0	19.5	50% 25%	10%		
Lisbon	12.0	12.6	13.2	13.9	14.5	18.5	20.1				
Kindred	12.0	17.2	18.3	19.6	20.5	21.2	20.1	Little to No		Widespre Addition	
West Fargo Diversion	16.5	17.2	17.6	19.0	20.3	21.2	21.2	Precipitation			
Harwood	89.3	90.1	91.1	91.5	91.8	92.1	92.2	(prior to	Precipitat		
Maple River	09.5	50.1	91.1	51.5	91.0	52.1	52.2	snowmelt crest)			
Enderlin	11.4	11.6	12.3	12.9	13.2	13.8	14.2				
Mapleton	21.0	21.6	22.0	22.4	22.8	23.2	23.7				
Goose River	21.0	21.0	22.0	22.7	22.0	25.2	23.7				
Hillsboro	9.8	11.6	13.0	13.9	14.4	15.1	15.6				
Forest River	2.0	11.0	15.0	15.5	<u> </u>	19.1	10.0				
Minto	4.3	4.6	5.2	5.7	6.5	7.1	7.2				
Pembina River	5	4.0	5.2	5.7	0.5	, · · ·	/•2				
Walhalla	5.4	5.7	6.2	6.9	8.3	10.4	11.3				
Neche	9.1	9.8	11.3	12.7	16.7	19.6	20.5				

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MINNESOTA TRIBUTARIES	95%	90%	75%	50%	25%	10%	5%		
South Fork Buffalo River									
Sabin	14.0	14.4	14.8	15.3	15.8	16.4	16.8		
Buffalo River								<u>Lege</u>	
Hawley	8.2	8.7	9.1	9.8	10.3	10.8	11.2	Below Floo	
Dilworth	19.3	19.8	20.6	21.6	22.5	23.3	23.9	Min	
Wild Rice River								Mode	
Twin Valley	6.8	7.2	7.8	8.9	9.6	11.0	11.9	Maj	
Hendrum	26.7	28.1	29.1	30.5	31.7	32.5	33.1	*Flood of	Recora"
Marsh River									
Shelly	10.9	12.4	13.5	15.1	17.3	19.5	20.2		
Sand Hill River								50% 25%	10% 5
Climax	19.9	20.7	22.7	24.9	28.3	30.7	32.1	Little to No	Widespre
Red Lake River								Precipitation	Addition
High Landing	7.0	7.3	8.3	9.3	9.5	11.4	11.8	(prior to	Precipitat
Crookston	13.8	14.2	15.7	17.9	20.1	22.4	23.5	snowmelt crest)	Trecipitat
Snake River								Showment creaty	
Above Warren	63.4	63.7	64.1	64.9	65.7	67.3	68.1		
Alvarado	100.1	100.8	102.0	103.5	105.6	108.1	108.6		
Two Rivers River									
Hallock	800.3	800.6	802.0	804.1	807.1	808.3	809.0		
Roseau River									
Roseau	8.0	8.5	9.3	10.6	13.2	15.6	17.0		

Valid March 27, 2023 - June 25, 2023

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