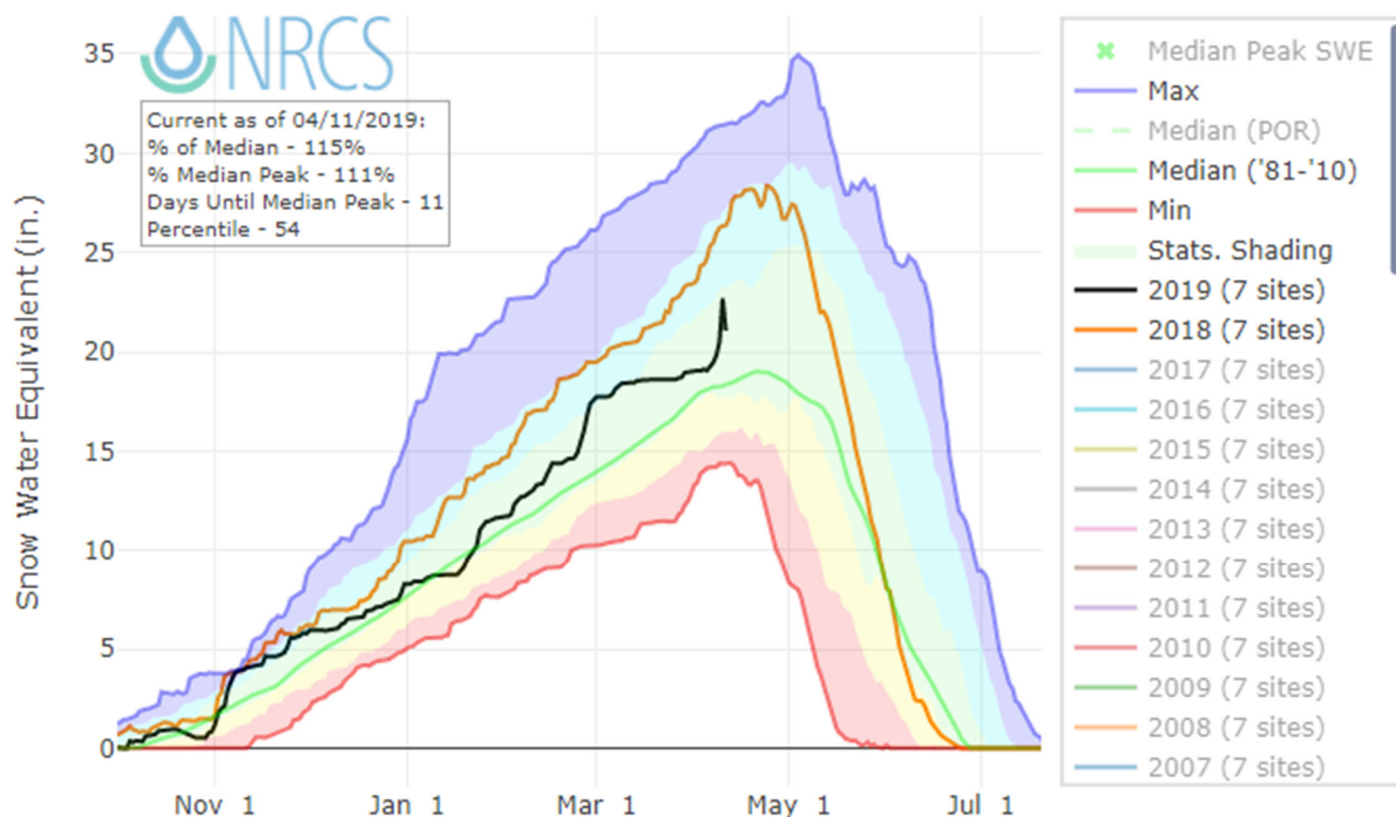


Gallatin County Water Supply Outlook

April 2019

Snowpack Data

Gallatin River Basin



SNOWPACK SUMMARY:

*Data is current as of April 11

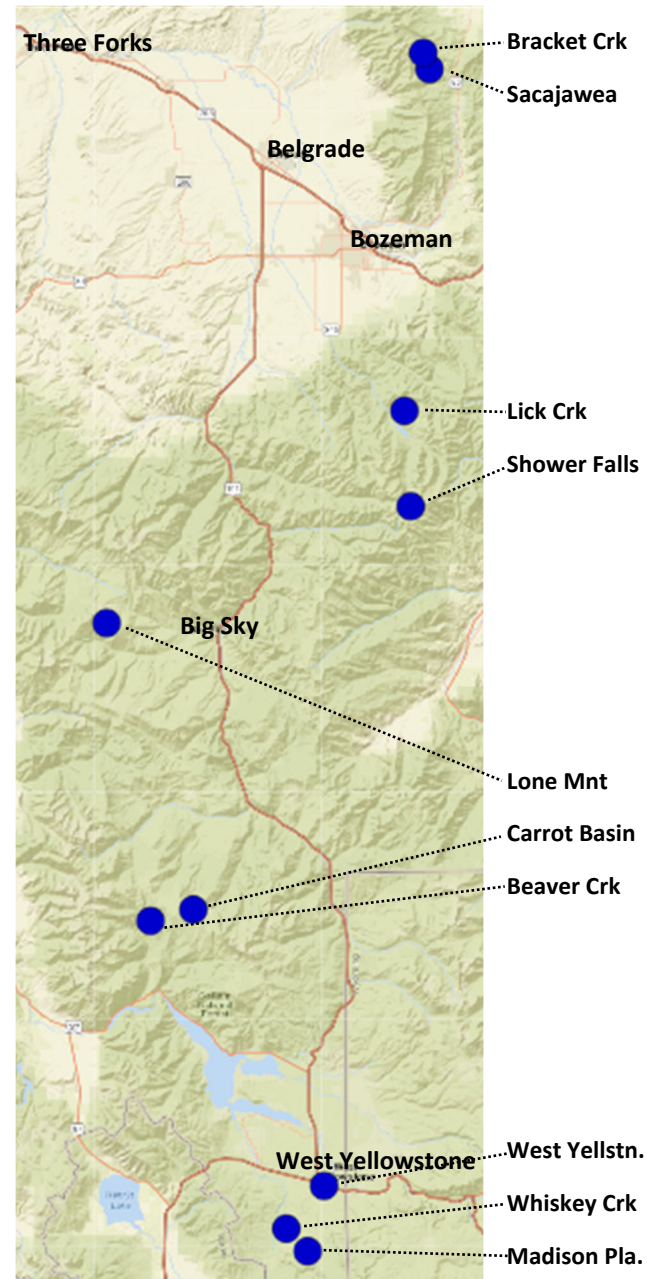
Snowpack is currently at or above normal snowpack throughout the Gallatin River Basin. In April 2018, the Gallatin River Basin was also at or above normal Snowpack.

The April NRCS Water Supply Outlook Report for the Gallatin River Basin states "After a record-setting February blanketed the basin and left one the deepest valley snowpacks on record at the beginning of March, almost every SNOTEL site in the Gallatin River drainage experienced its lowest March precipitation on record, sparing Lick Creek, which was 2nd to lowest on record. Coming off a bumper February with 209% of average mountain precipitation, the month of March yielded just 40% of average. April is normally the icing on the cake for high-elevation SNOTEL sites, which typically build snowpack through the month and peak in late April. For now, streamflow forecasts issued on April 1st for the April 1st – July 31st period indicate slightly above average seasonal volumes in the rivers and streams in the basin. The next month will fill in the details on whether the higher elevations reach their normal peaks before spring runoff begins."

Review next page for detailed station data.

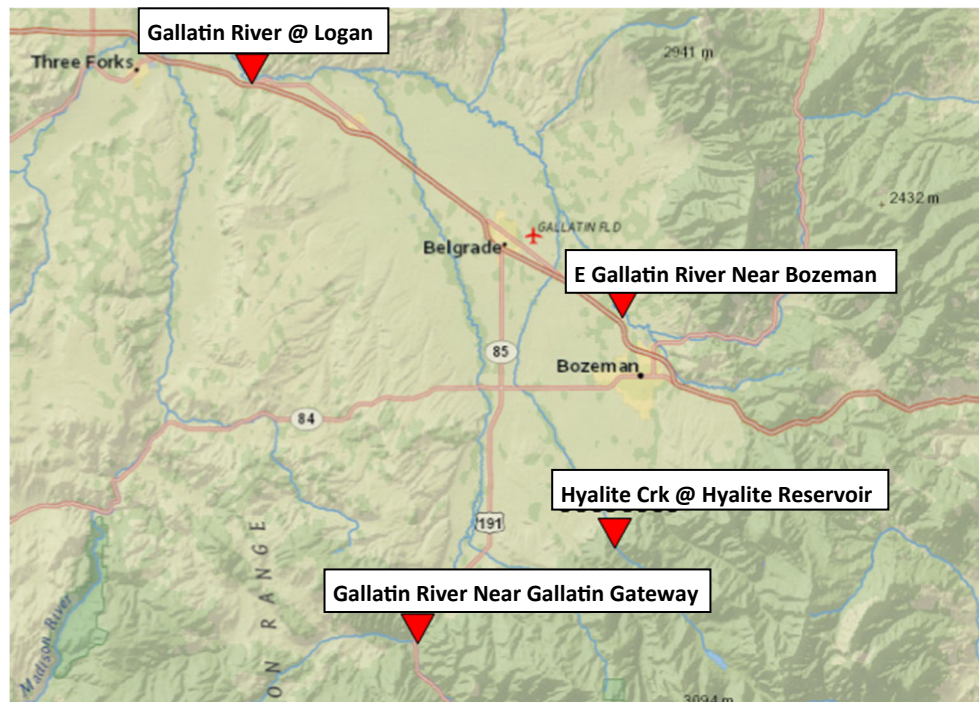
Gallatin River Basin

West Yellowstone Region					
Station Name	Date	Snow Depth	SWE (in)	SWE % Normal	Normal SWE 1971-2000 (in)
West Yellowstone	Apr 2018	40	13.6	106	12.8
	Apr 2019	38	13.4	105	
Whiskey Creek	Apr 2018	52	16.3	94	17.4
	Apr 2019	55	18.9	109	
Madison Plateau	Apr 2018	77	26.4	104	25.5
	Apr 2019	75	26.5	104	



Streamflow Data

Gallatin River Watershed



April 1 Gallatin Watershed Streamflow					
Station Name	2019 Discharge (cfs)	% Normal	Normal Discharge (cfs)	2018 Discharge (cfs)	Period Of Record (Yrs)
Gall At Logan	1400	159	880	959	102
E Gall near Bozeman	126	72	174	149	4
Hyalite Cr	22.5	98	23	22.2	67
Near Gallatin Gate-way	389	111	349	334	88

STREAMFLOW SUMMARY

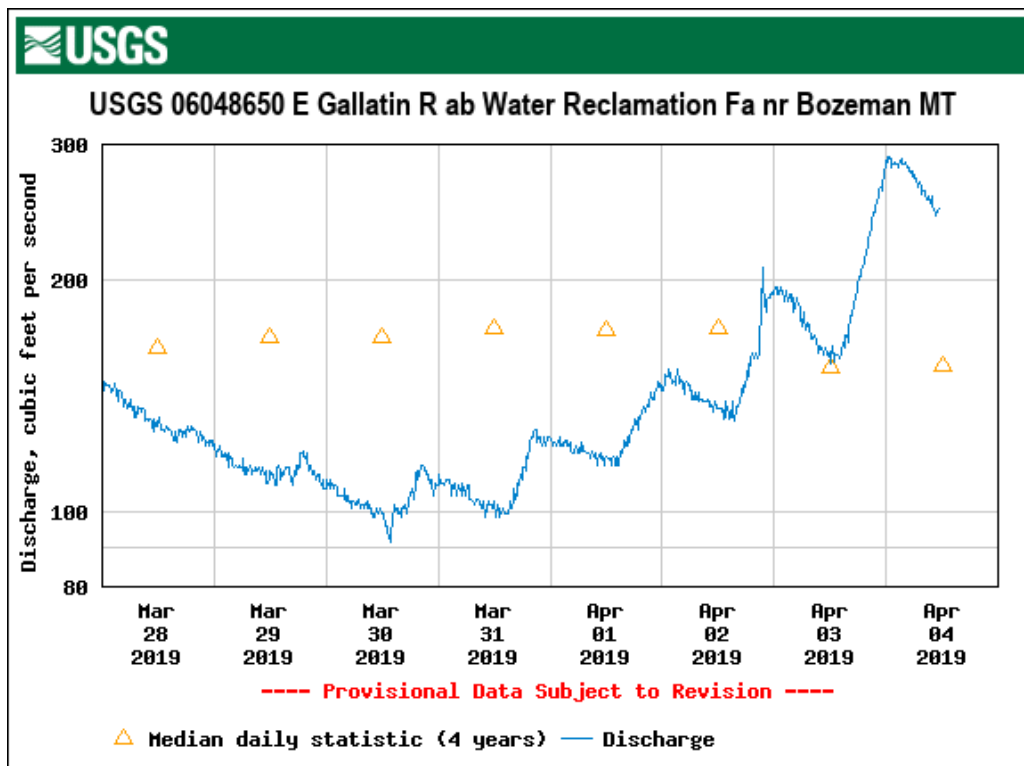
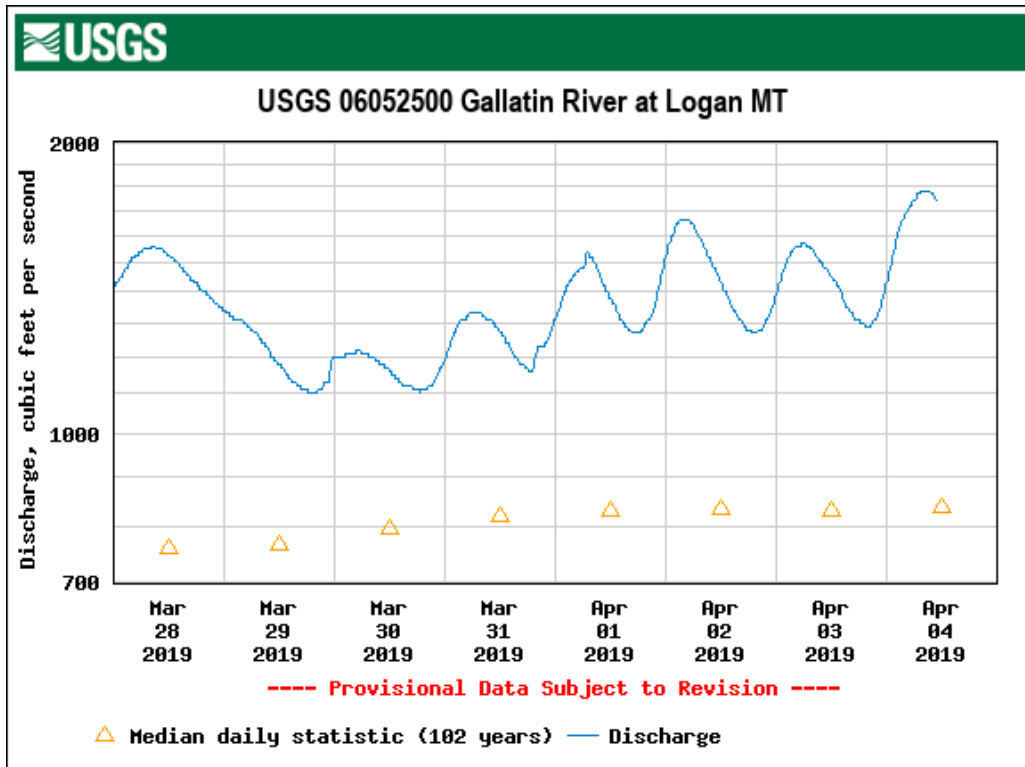
*Data current as of April 11

Streamflow is currently at, above, or much above normal discharge throughout the Gallatin River Watershed. This is very similar to last year's discharge during April.

Review next page for detailed station information

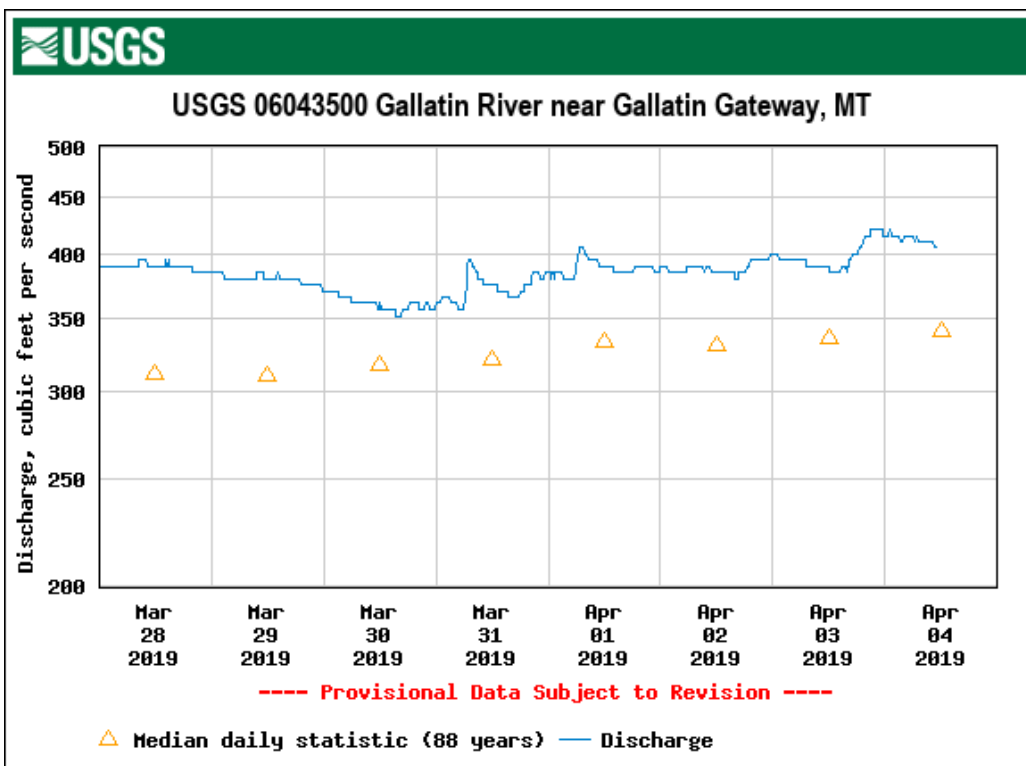
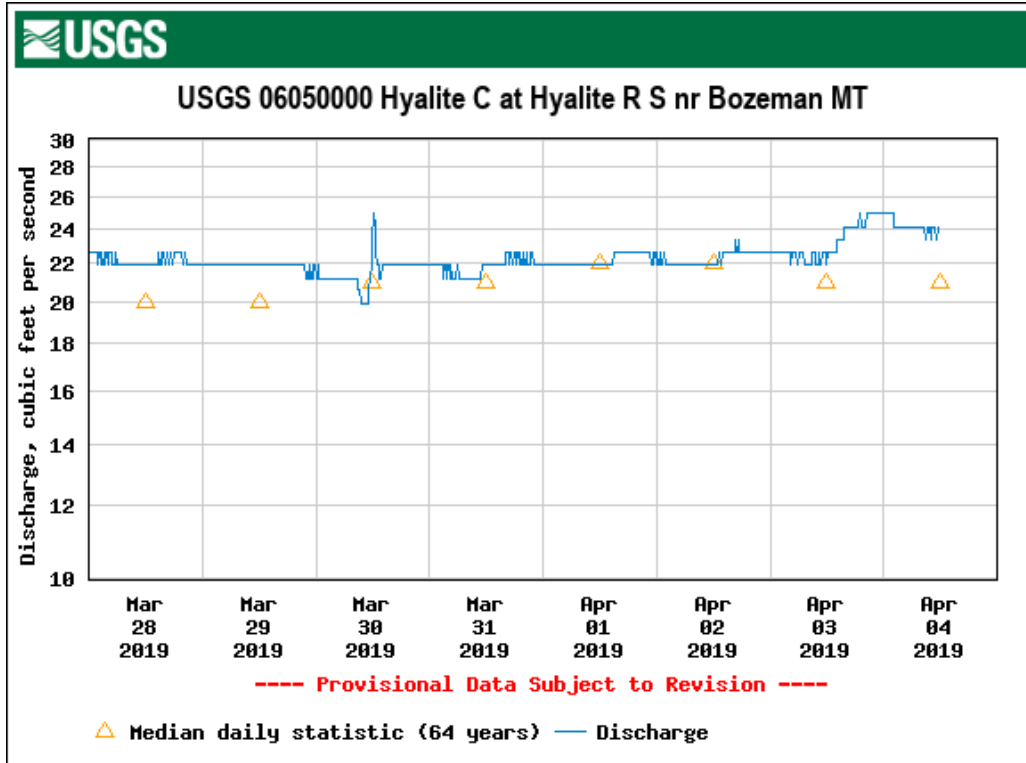
Streamflow Data

Gallatin River Watershed



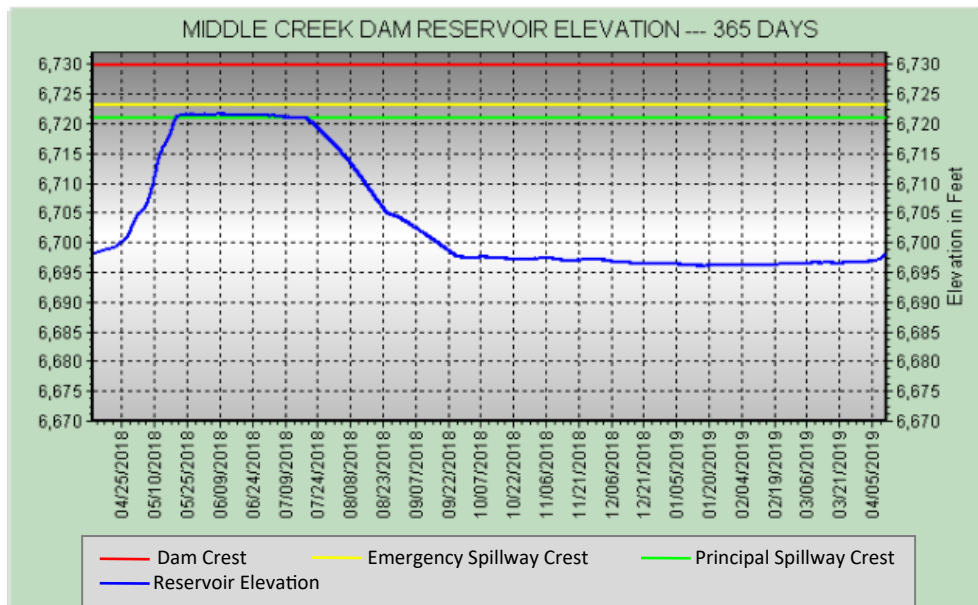
Streamflow Data

Gallatin River Watershed



Reservoir Data

Middle Creek Dam (Hyalite)



TIME OF LAST READING 4/11/19 1:00 PM

RESERVOIR ELEVATION 6,696.1 FT

RESERVOIR VOLUME 5,622 AF

REFERENCE INFORMATION

	FT (MSL)	AC-FT
DAM CREST	6730	12,790
EMERGENCY SPILLWAY CREST	6723	10,707
PRINCIPAL SPILLWAY CREST	6721	10,184
LOWEST USEABLE ELEVATION	6637	0

STATION LOCATION

EAST FORK OF HYALITE ABOVE RESERVOIR

TIME OF LAST READING

4/11/2019 15:00 PM

STAGE (FT)

1.2 FT

DISCHARGE (CFS)

NOT AVAILABLE

WEST FORK OF HYALITE ABOVE RESERVOIR

12/27/2018 9 15:00 PM

1.1 FT

NOT AVAILABLE

MIDDLE CREEK BELOW RESERVOIR

4/11/2019 9 11:45 AM

3.2 FT

NOT AVAILABLE

****PROVISIONAL DATA SUBJECT TO REVISION****

AGRIMET STATION SUMMARY:

-
- For more information on the AgriMet station visit [this site](#).

Climate Data

Gallatin County



Bozeman AgriMet Station		
<i>Apr '19</i>	<i>% Humidity</i>	<i>Wind Speed (mph)</i>
AVG	66	5
MAX	69	7
MIN	63	3
<i>Mar '19</i>	<i>% Humidity</i>	<i>Wind Speed (mph)</i>
AVG	68	11
MAX	86	253
MIN	50	1

▼ The Bozeman AgriMet station is located approximately 4 miles west of Bozeman, Montana.

Estimated Crop Water Use - April 11, 2019					
Crop	Start Date	Average ET	Sum ET	Cover Date	Term Date
<i>Reference ET rate</i>	<i>April 1</i>	<i>0.05</i>	<i>0.70</i>	<i>June 1</i>	<i>Oct 5</i>
Lawn	April 10	0.01	0.01	June 1	Sept 30
Alfalfa	April 20	-	-	June 20	Sept 30
Winter Grain	April 25	-	-	July 5	Aug
Summer Grain	May-June	-	-	July 5-15	Aug 10-20
Potatoes	June 8	-	-	Aug 1	Oct 5

AGRIMET STATION SUMMARY:

-
- For more information on the AgriMet station visit [this site](#).

Mesonet Probe Depth (in)	Soil Temp (°F)	Volumetric Water Content (VWC)
4" - Surface	50°	29%
8" - Shallow rooting	41°	34%
20" - deep rooting	39°	12%

