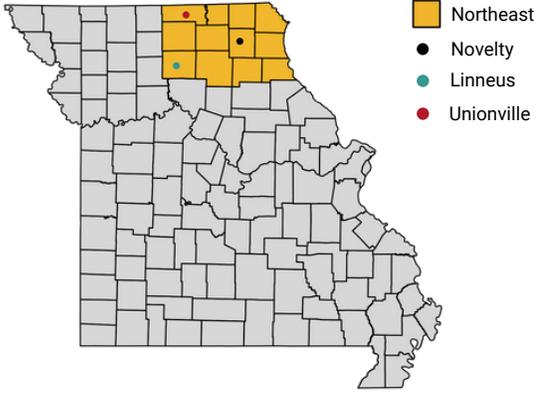




SOYBEAN GROWTH MONITORING

WEEK: 07/23 - NORTHEAST - MO



- Soybean fields planted in April experienced drought stress during June and still show a reduction in attainable yield. However, the drought's impact on crop development in 2024 is significantly lower than in previous years.
- Soil moisture remains high in the NE region, but an increase in crop water demand is expected in the upcoming weeks due to forecasted high temperatures.
- April and May plantings are currently in yield-determining developmental stages, benefiting from favorable conditions in terms of water availability and temperature.
- Yields are expected to increase by up to 13%, with an average increase of 9% across the different planting scenarios in the region.

2024 Relative Yield Prediction

Planting date:

04-05-2024			04-26-2024			05-17-2024			06-07-2024		
MG 3	MG 4	MG 5	MG 3	MG 4	MG 5	MG 3	MG 4	MG 5	MG 3	MG 4	MG 5
+7%	+7%	+4%	+10%	+11%	+11%	+11%	+13%	+12%	0%	+2%	+2%

• Obs: The 2024 yield prediction is relative to the normal yield of the same maturity group planted on the same date.

Growth Cycle

Planting date: 04-05-2024

04-26-2024

05-17-2024

06-07-2024

Stage	Nodes	Harvest
MG 3 R5	17	08/28 ± 3 days
MG 4 R3	17	09/11 ± 4 days
MG 5 R1	17	09/24 ± 5 days

Stage	Nodes	Harvest
R5	16	09/03 ± 2 days
R3	16	09/17 ± 4 days
R1	16	09/29 ± 5 days

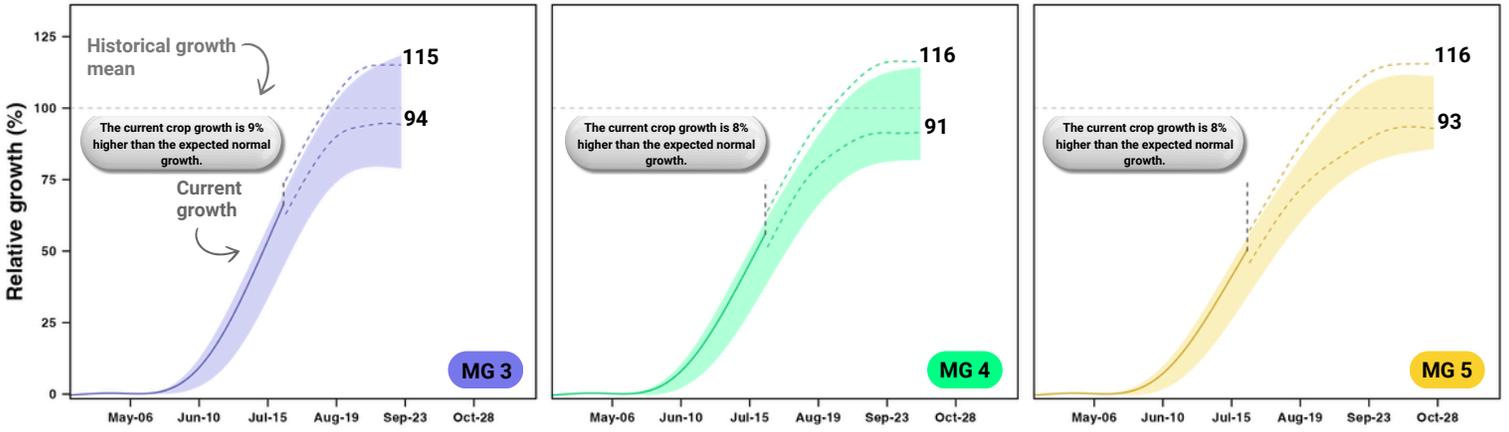
Stage	Nodes	Harvest
R3	13	09/11 ± 3 days
R1	13	09/25 ± 4 days
V13	13	10/07 ± 5 days

Stage	Nodes	Harvest
R1	9	09/21 ± 4 days
V9	9	10/05 ± 5 days
V9	9	10/14 ± 6 days

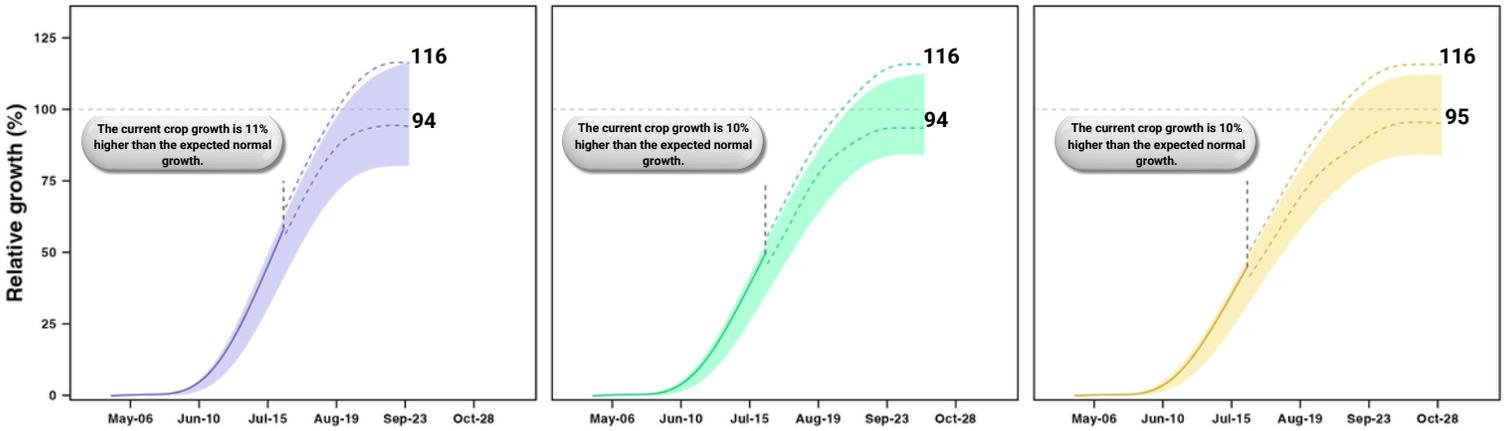
The stage and nodes indicate the current crop development as of the date of this report.

End-of-season growth prediction

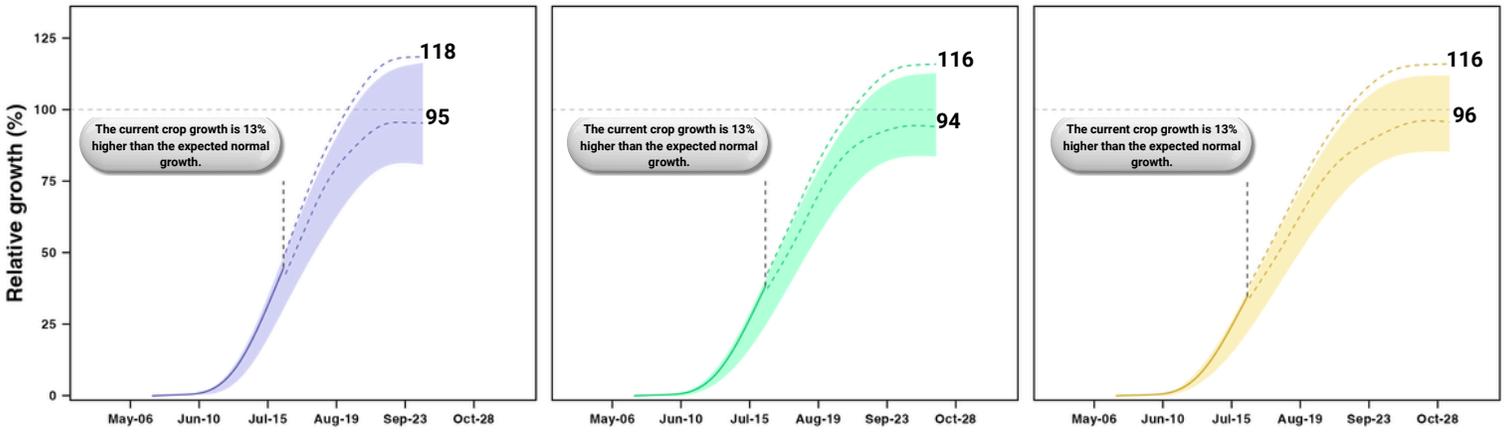
Planting date: 04-05-2024



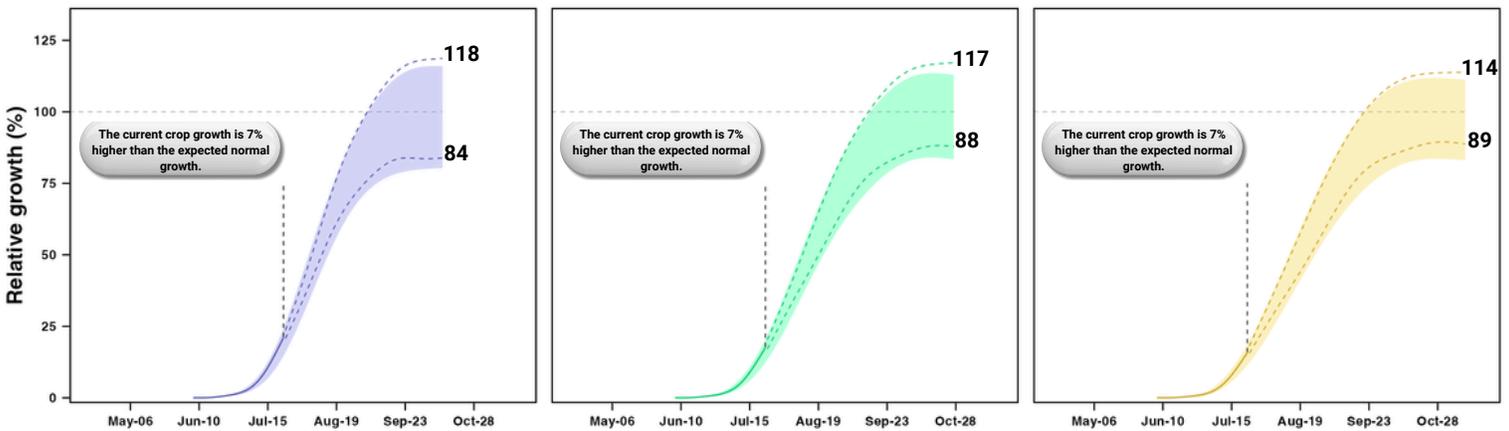
Planting date: 04-26-2024



Planting date: 05-17-2024



Planting date: 06-07-2024

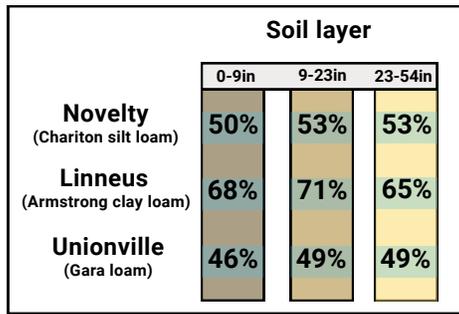


Normal growth distribution
 Current growth
 Current growth distribution MIN/MAX

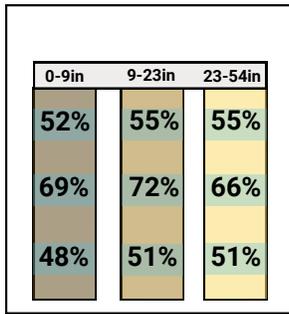
The normal growth represents the average growth expected at the reporting date, derived from simulating a current crop variety using 40 years of historical weather data specific to a particular location and planting date.

Soil water content

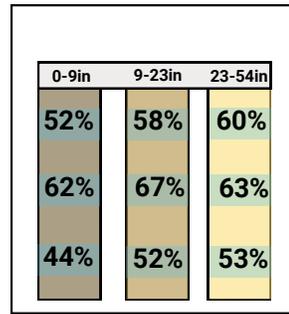
Planting date: 04-05-2024



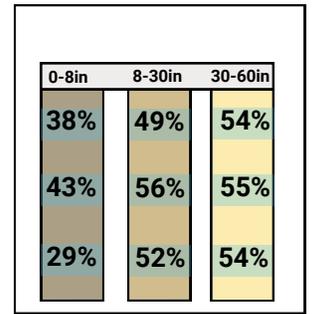
04-26-2024



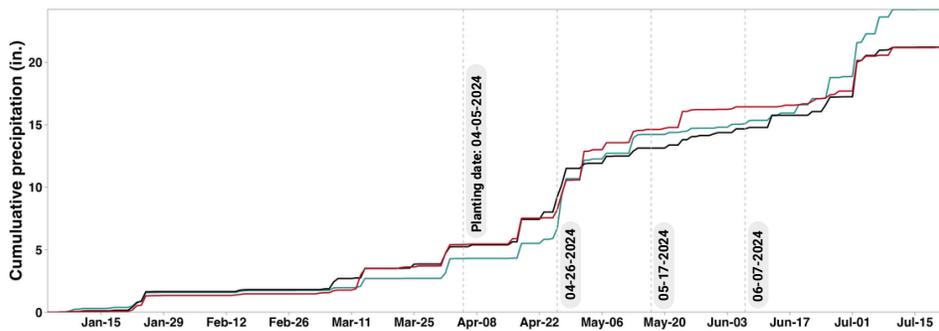
05-17-2024



06-07-2024



Rainfall



Drought Stress

Planting date:	MG 3	MG 4	MG 5
	04-05-2024	3%	2%
04-26-2024	2%	2%	2%
05-17-2024	0%	0%	0%
06-07-2024	0%	0%	0%

Drought stress is estimated by the cumulative crop transpiration reduction.