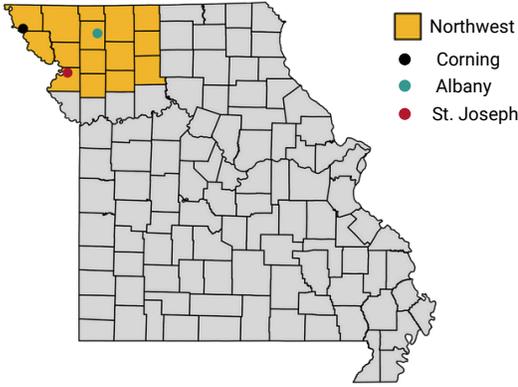




# SOYBEAN GROWTH MONITORING

WEEK: 07/23 - NORTHWEST - MO



- Soil moisture remains high in the NW region, with no significant drought stress detected so far this season for any planting dates or maturity groups.

- April and May planting are currently undergoing yield-determining developmental stages, benefiting from good conditions in terms of water availability and temperature.

- Yields are expected to increase by up to 22%, with an average increase of 13% 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
+18%	+19%	+22%	+15%	+17%	+17%	+11%	+12%	+12%	+2%	+5%	+5%

• **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 19	08/26 ± 2 days
MG 4	R3 19	09/11 ± 2 days
MG 5	R1 19	09/24 ± 3 days

Stage	Nodes	Harvest
R5	17	09/02 ± 2 days
R3	17	09/17 ± 2 days
R1	17	09/30 ± 3 days

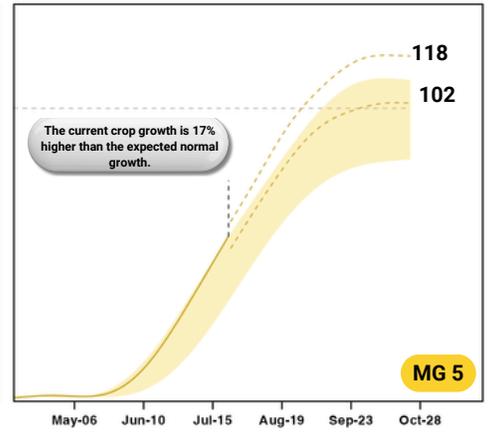
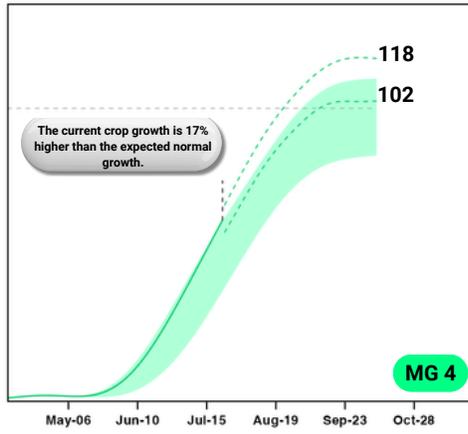
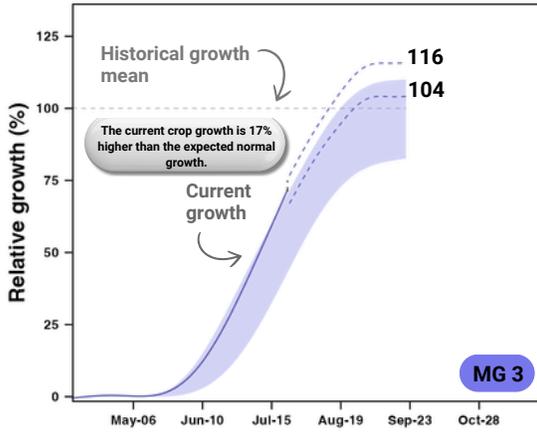
Stage	Nodes	Harvest
R3	14	09/11 ± 2 days
R1	14	09/24 ± 3 days
R1	14	10/06 ± 4 days

Stage	Nodes	Harvest
R1	10	09/21 ± 3 days
V10	10	10/04 ± 3 days
V10	10	10/14 ± 4 days

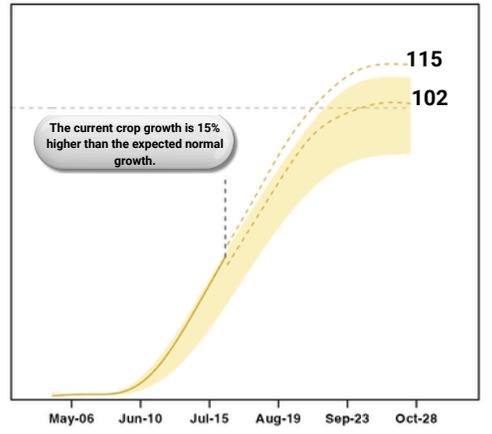
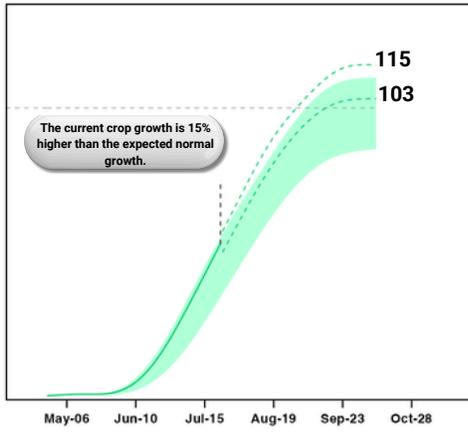
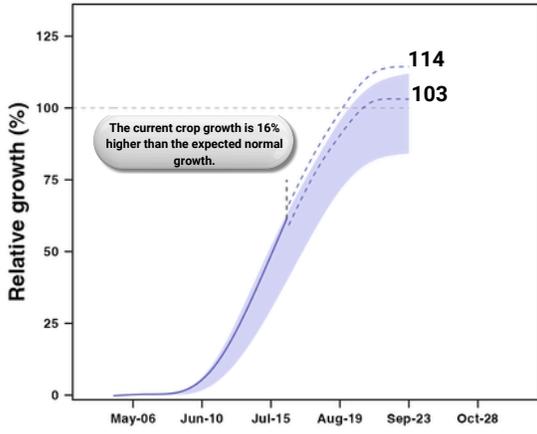
The stage and nodes indicate the current crop development as of the date of this report.

### End-of-season growth prediction

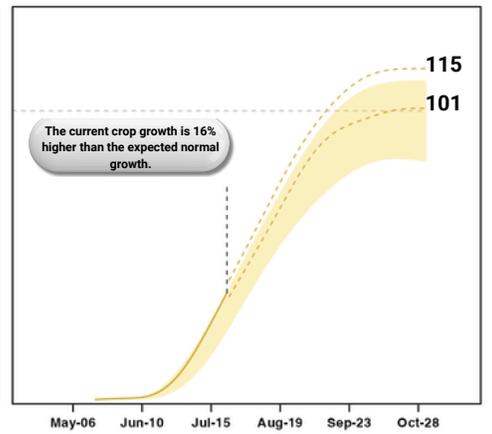
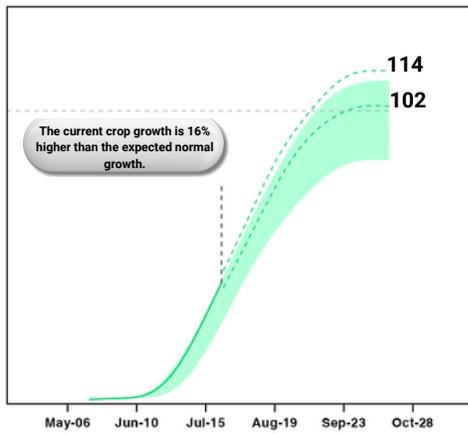
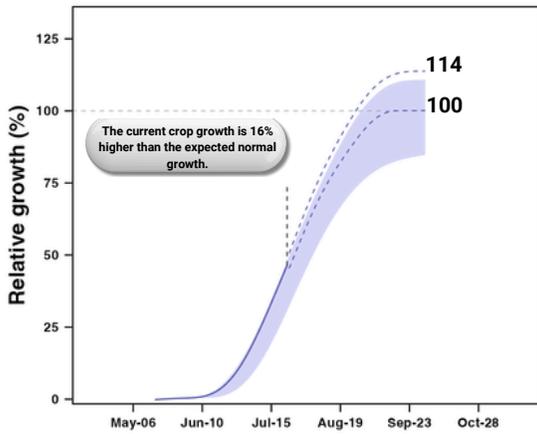
Planting date: 04-05-2024



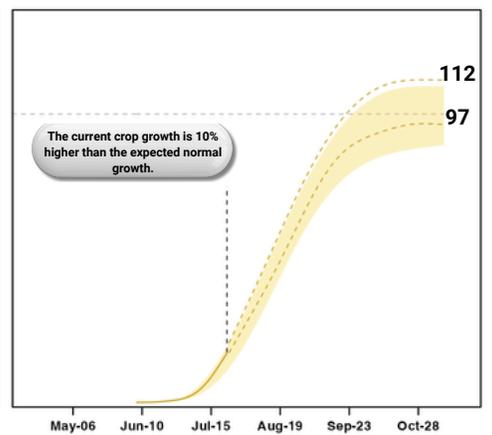
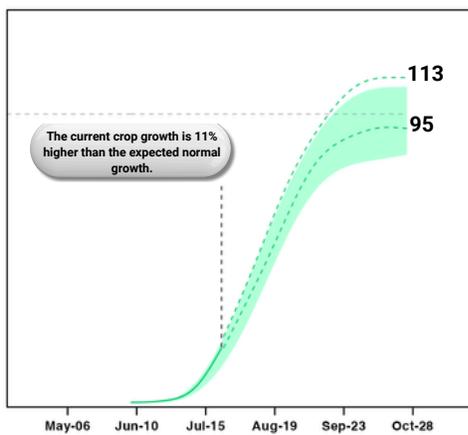
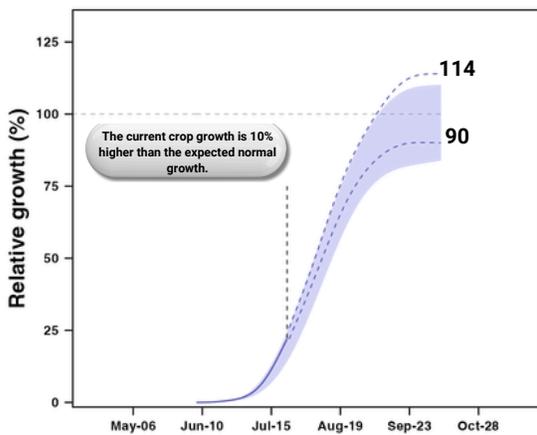
Planting date: 04-26-2024



Planting date: 05-17-2024



Planting date: 06-07-2024

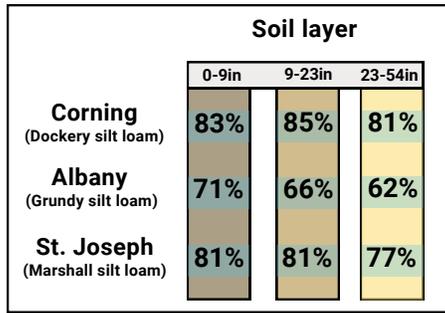


Normal growth distribution
  Current growth
  Current growth distribution MIN/MAX

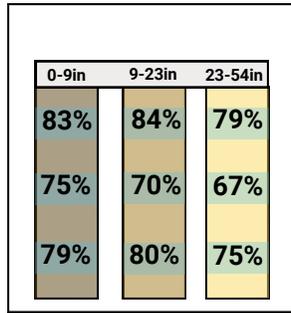
The normal growth represents the average growth expected at the reporting date, derived from simulating a current crop variety using 40 years of historical weather data specific to a particular location and planting date.

### Soil water content

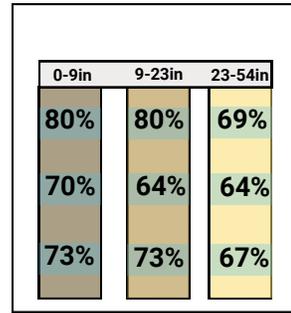
Planting date: 04-05-2024



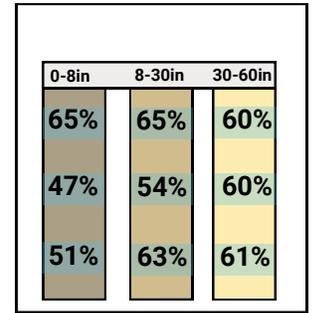
04-26-2024



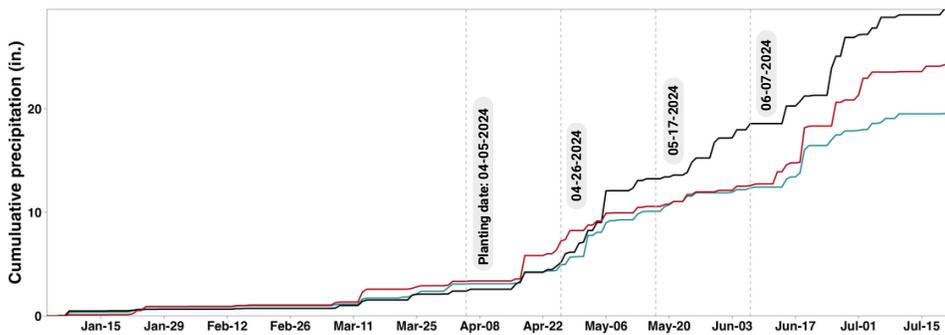
05-17-2024



06-07-2024



### Rainfall



### Drought Stress

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

Drought stress is estimated by the cumulative crop transpiration reduction.