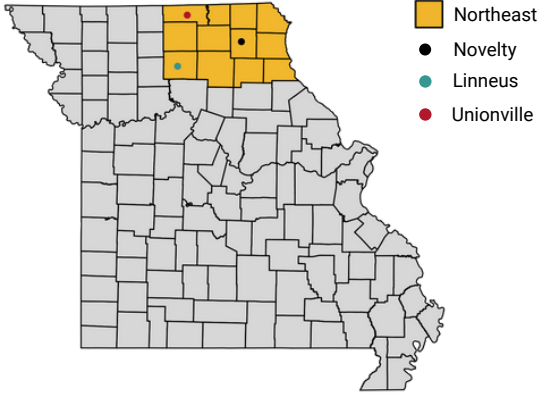




SOYBEAN GROWTH MONITORING

WEEK: 06/26 - NORTHEAST - MO



- Soybean fields planted in April are mostly undergoing pod setting or flowering. The high temperatures and rainfall shortage during June impacted pod retention and, therefore, attainable yield. Drought stress is estimated to have reduced crop transpiration by approximately 2%.

- Fields planted in May or June have been minimally affected by the dry June and do not show a major yield penalty.

- Soybeans planted in May or later are still in vegetative development without canopy closure. Post-emergence herbicides may still be required.

- Soil moisture returned to high levels due to the most recent rainfall precipitations.

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
-9%	-8%	-8%	-3%	-5%	-6%	+3%	-1%	0%	+2%	+1%	+1%

Historical Baseline Yield*

Novelty (Knox County) 45 bu/acre	Linneus (Linn County) 43 bu/acre	Unionville (Putnam County) 45 bu/acre
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- **Obs 1:** The 2024 yield prediction is relative to the normal yield of the same maturity group planted on the same date.
- **Obs 2:** *The historical baseline yield is the average from 2019 to 2023 reported by USDA-NASS Survey Program.

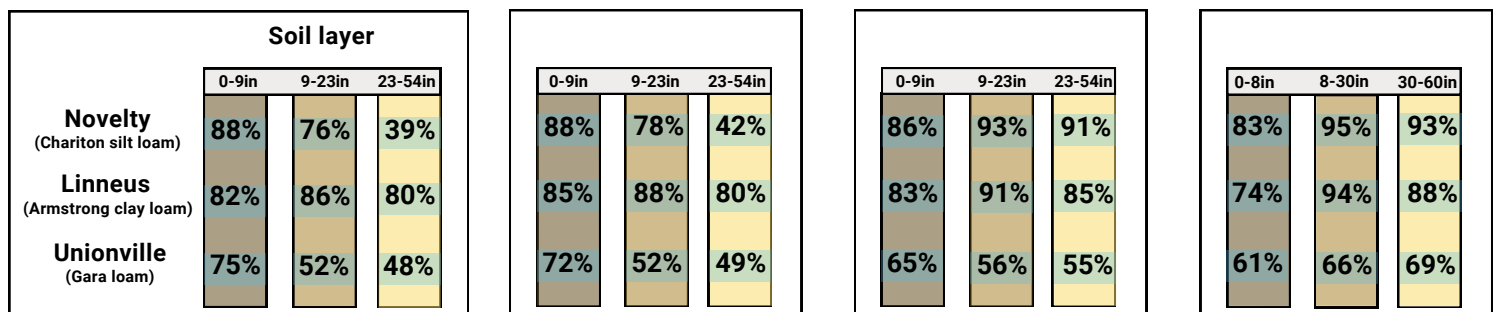
Soil water content

Planting date: 04-05-2024

04-26-2024

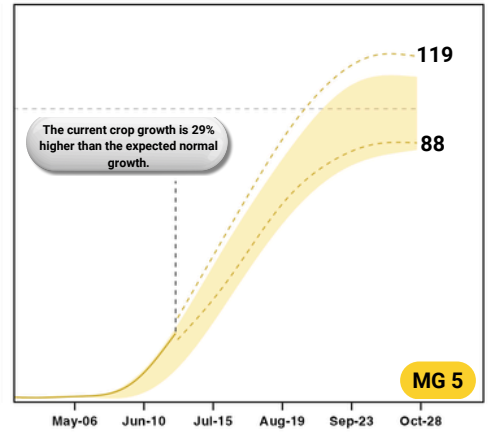
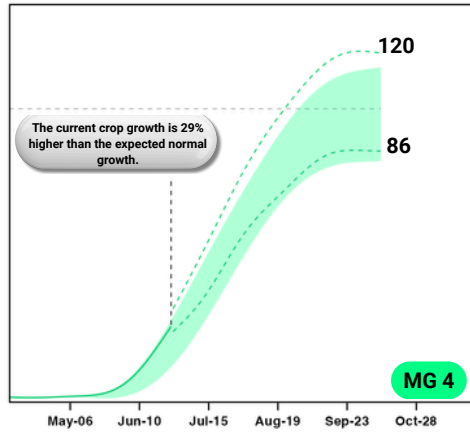
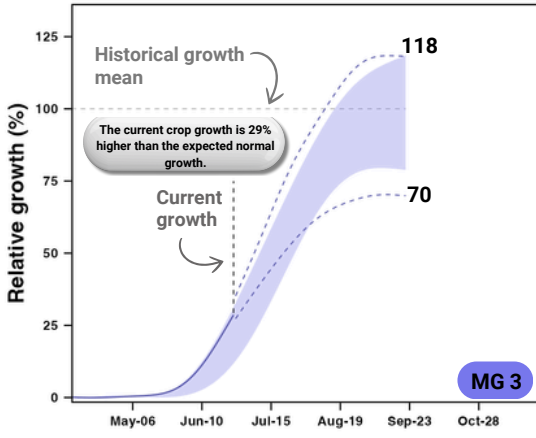
05-17-2024

06-07-2024

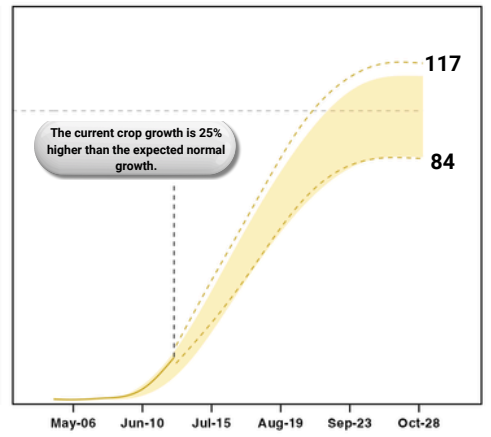
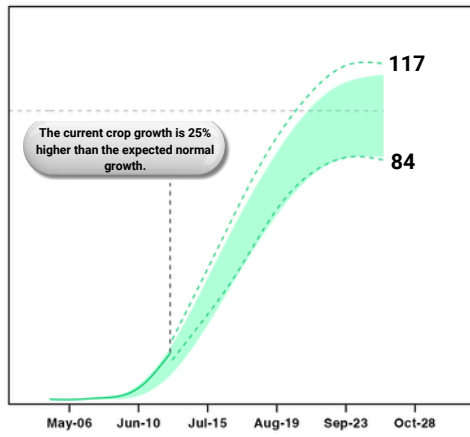
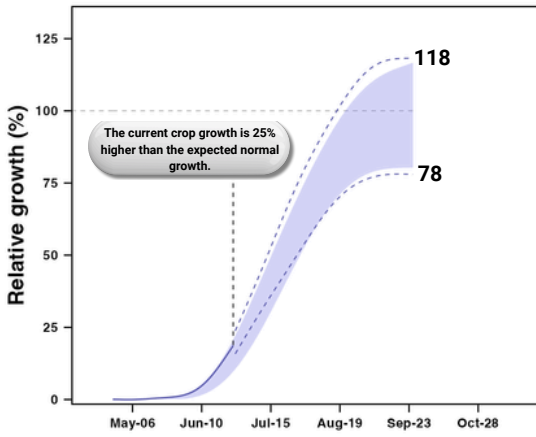


End-of-season growth prediction

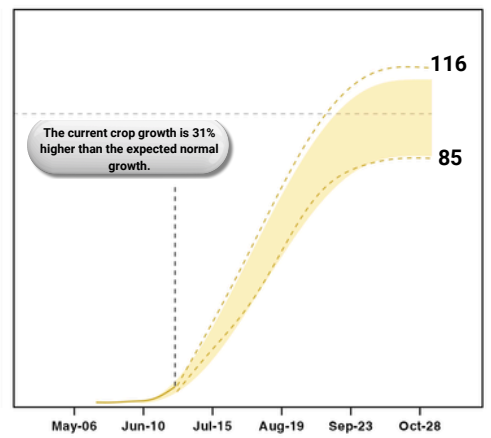
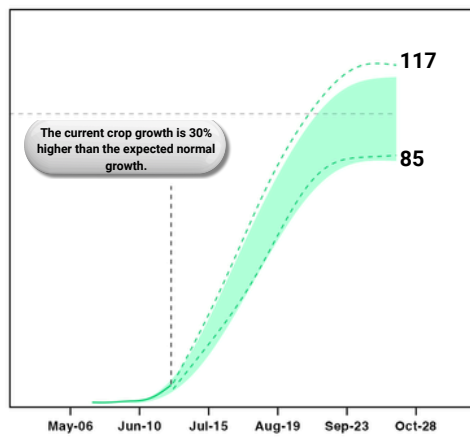
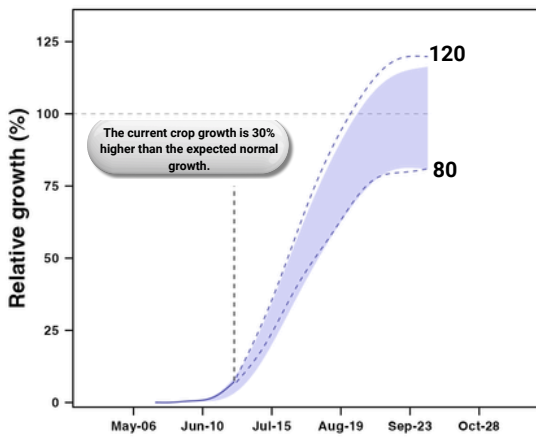
Planting date: 04-05-2024



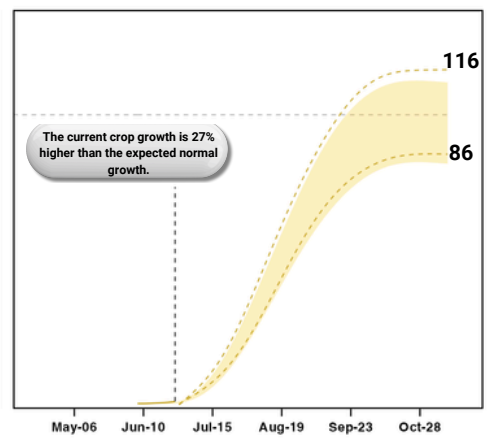
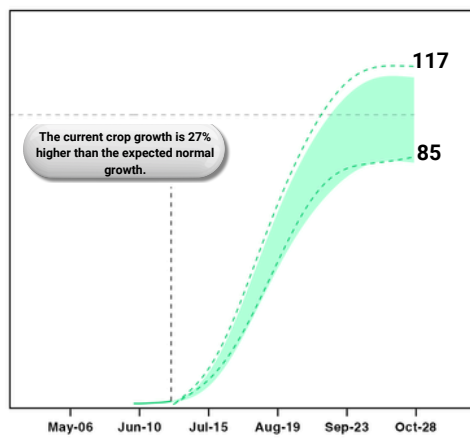
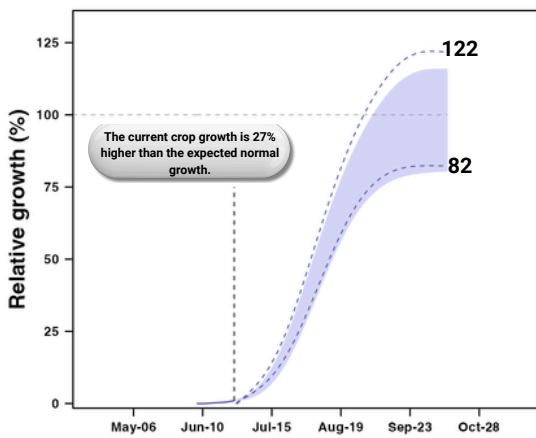
Planting date: 04-26-2024



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.

Growth Cycle

Planting date: 04-05-2024

04-26-2024

05-17-2024

06-07-2024

Stage	Nodes	Harvest
MG 3 R3	12	08/25 ± 4 days
MG 4 R1	12	09/09 ± 5 days
MG 5 V12	12	09/23 ± 6 days

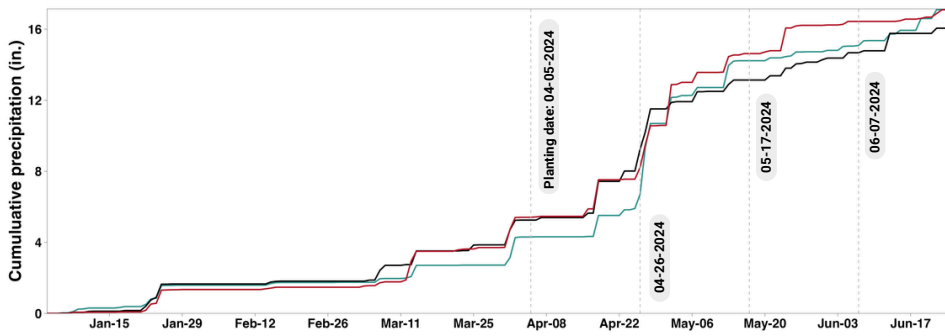
Stage	Nodes	Harvest
R1	10	09/01 ± 4 days
V10	10	09/15 ± 5 days
V10	10	09/29 ± 6 days

Stage	Nodes	Harvest
V7	7	09/10 ± 4 days
V7	7	09/23 ± 5 days
V7	7	10/06 ± 6 days

Stage	Nodes	Harvest
V3	3	09/21 ± 4 days
V3	3	10/03 ± 5 days
V3	3	10/14 ± 6 days

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

Rainfall



Drought Stress

Planting date:	MG 3	MG 4	MG 5
04-05-2024	2.3%	2.4%	2.4%
04-26-2024	1.7%	1.7%	1.7%
05-17-2024	0%	0%	0%
06-07-2024	0%	0%	0%

Drought stress is estimated by the cumulative crop transpiration reduction.