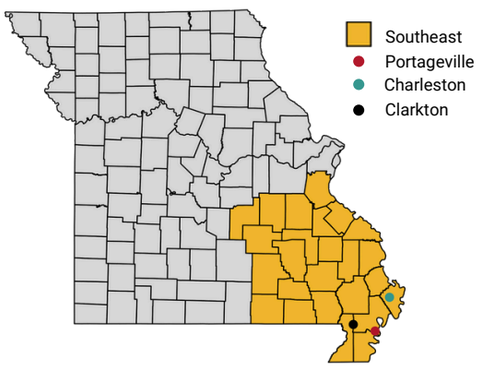
SOYBEAN GROWTH MONITORING

SOYBEAN FARMING SYSTEMS RESEARCH AND EXTENSION

WEEK: 06/26-SOUTHEAST-MO



- Soybean fields planted in early April or before are mostly undergoing seed filling, while those planted in late April are in the pod setting stage.

- Solar radiation during June provided favorable conditions for pod setting and seed filling.

- Leaf area and biomass are estimated to be higher than in previous years. Dense foliage canopies are prone to leaf diseases and insect damage. Scout fields regularly for biotic stresses.

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
-3%	0%	+1%	+2%	+4%	+4%	+3%	+4%	+4%	+4%	+4%	+4%

Historical Baseline Yield*					
Portageville (New Madrid County)	52 bu/acre	**Charleston** (Mississippi County)	54 bu/acre	**Clarkton** (Dunklin County)	47 bu/acre

- **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

Soil layer	0-9in	9-23in	23-54in
Portageville (Portageville clay)	86%	89%	91%
Charleston (Clana loamy fine sand)	91%	92%	93%
Clarkton (Malden fine sand)	83%	85%	90%

04-26-2024

0-9in	9-23in	23-54in
84%	89%	90%
91%	92%	94%
83%	83%	89%

05-17-2024

0-9in	9-23in	23-54in
85%	89%	88%
94%	94%	96%
79%	89%	93%

06-07-2024

0-8in	8-30in	30-60in
80%	92%	93%
85%	93%	96%
70%	88%	94%

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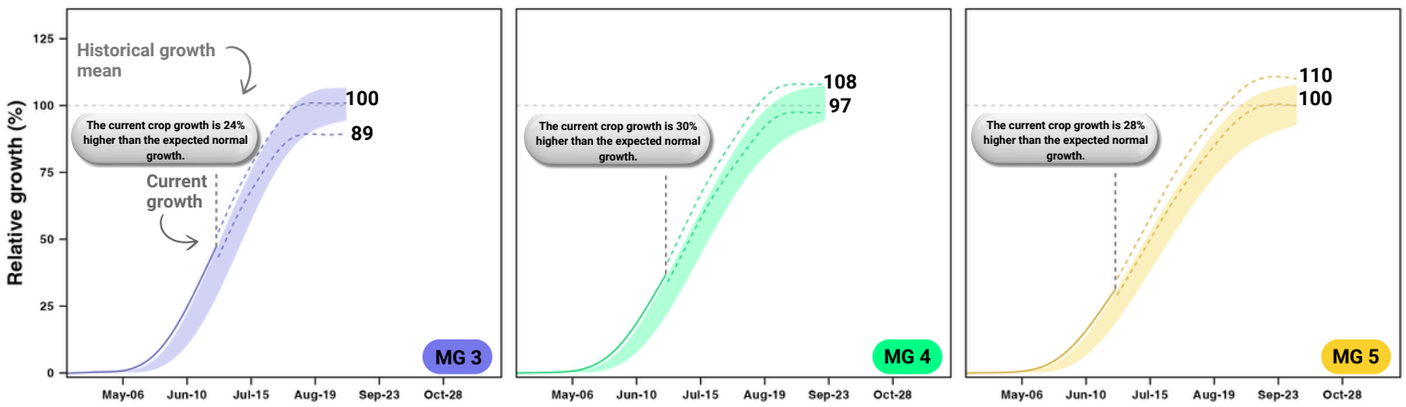
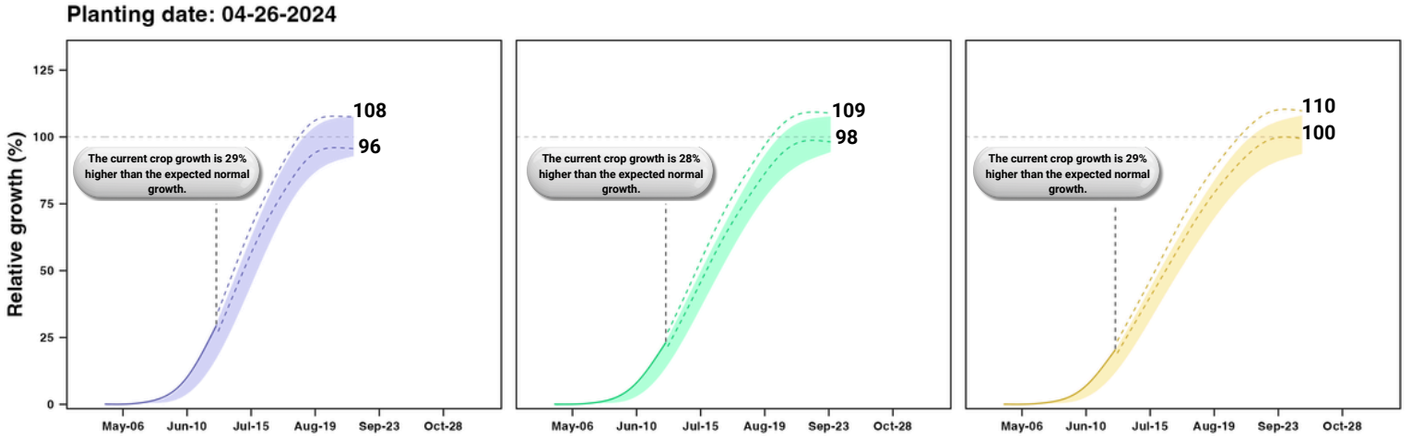
End-of-season growth prediction

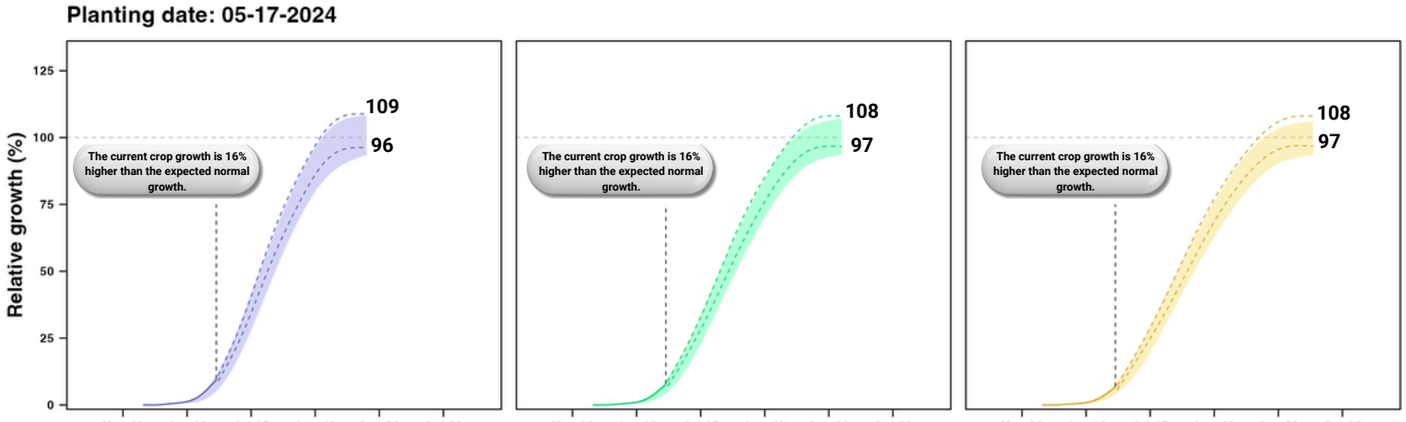
Planting date: 04-05-2024



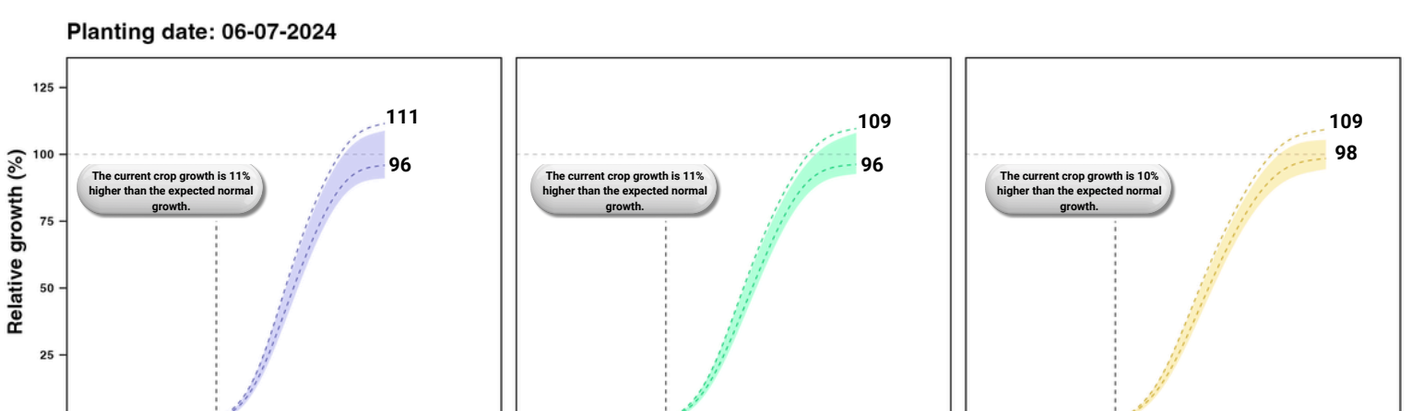
Planting date: 04-26-2024



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.

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Growth Cycle

Planting date: 04-05-2024

	Stage	Nodes	Harvest
MG 3	R5	16	08/04 ± 2 days
MG 4	R5	16	08/21 ± 2 days
MG 5	R3	15	09/04 ± 2 days

04-26-2024

Stage	Nodes	Harvest
R3	13	08/17 ± 2 days
R3	13	09/01 ± 2 days
R1	13	09/14 ± 2 days

05-17-2024

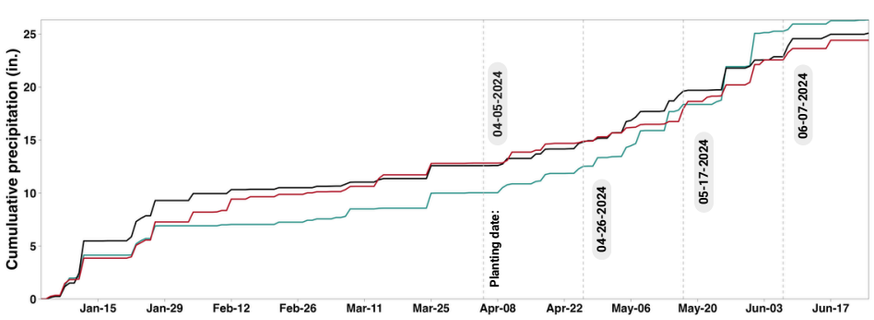
Stage	Nodes	Harvest
R1	8	09/01 ± 1 days
V8	8	09/13 ± 2 days
V8	8	09/24 ± 2 days

06-07-2024

Stage	Nodes	Harvest
V3	3	09/14 ± 1 days
V3	3	09/24 ± 2 days
V3	3	10/04 ± 2 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	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.

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