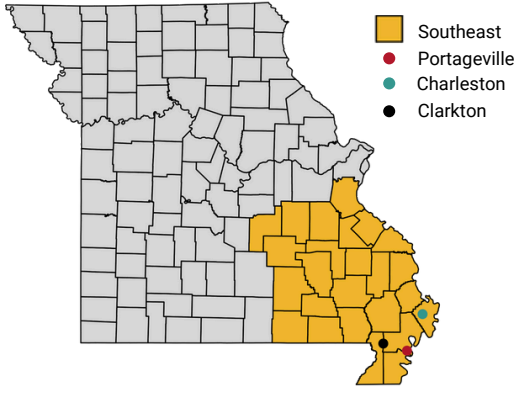




SOYBEAN GROWTH MONITORING

WEEK: 06 / 10 - SOUTHEAST - MO

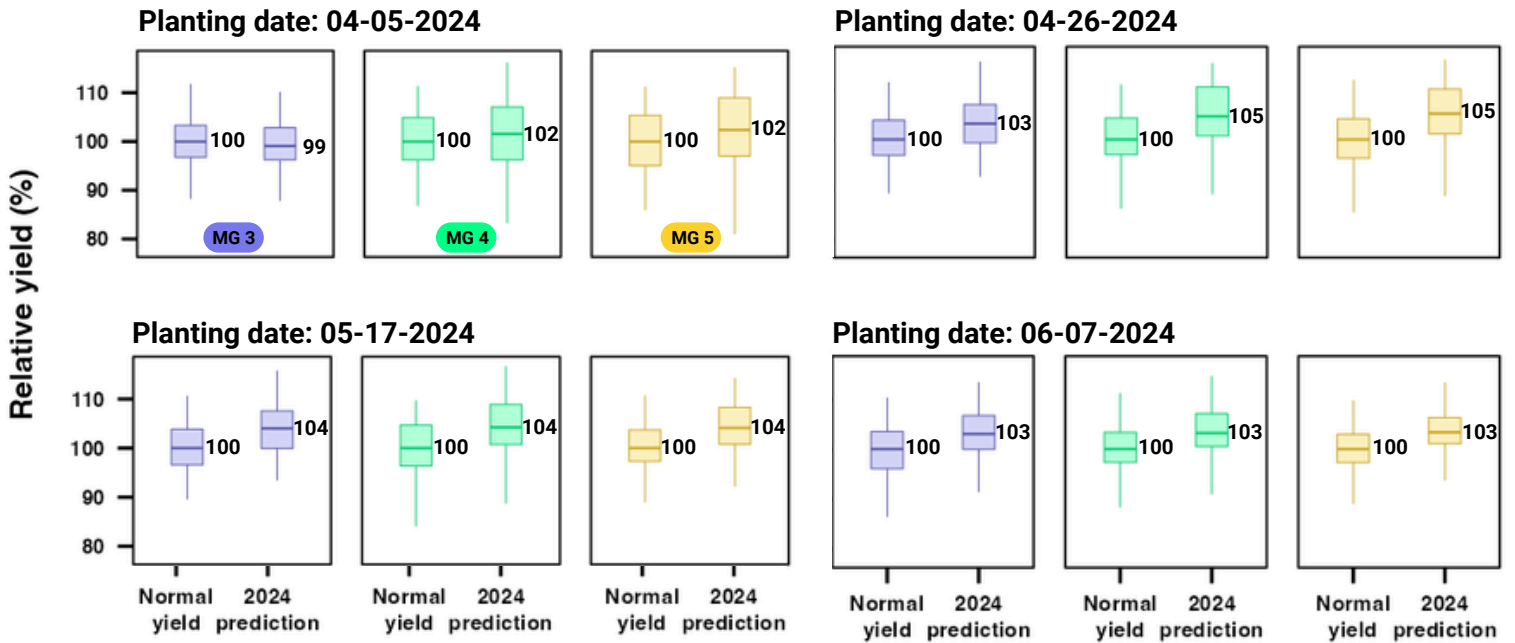


- Soybean growth for all MGs planted on 04/05, 04/26, and 05/17 is greater than the "normal" with an increase of up to ~60%. The additional growth is result of warmer spring days and high solar radiation. Early canopy closure and early final herbicide application are expected.

- MG 3.0 soybeans planted on 04/05 are already initiating seed filling. MG 4.0 is undergoing pod setting. Later planting dates are reaching flowering stages or still in vegetative development. It will be important to monitor for insects and diseases in the upcoming weeks for fields in reproductive development.

- Water requirements are higher than the usual. Irrigation requirements may increase.

2024 Relative Yield Prediction

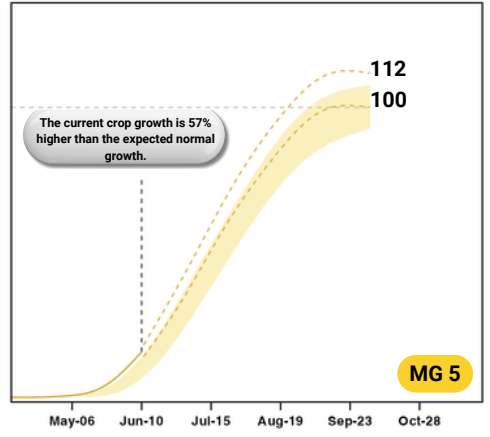
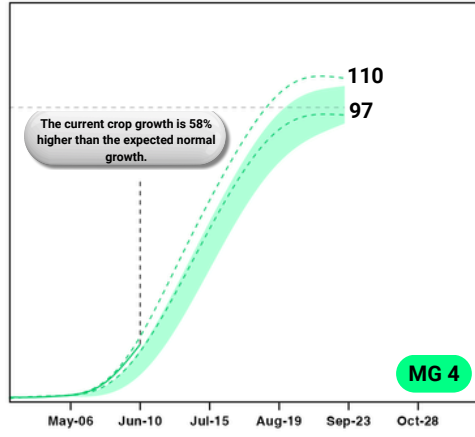
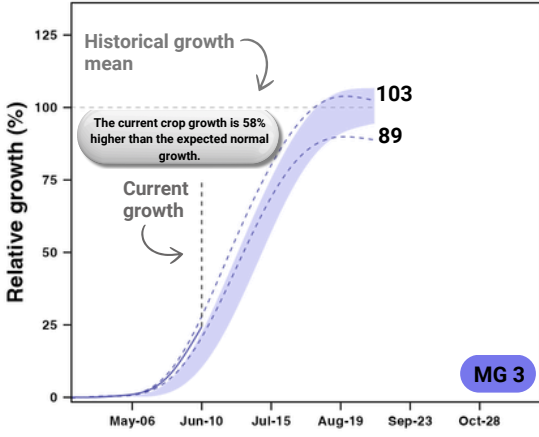


The 2024 yield prediction for a 3.0 MG planted on 04/05 is expected to be 1% lower than the normal yield. The normal yield is the average expected yield for a specific location, based on weather scenarios observed over the past 40 years.

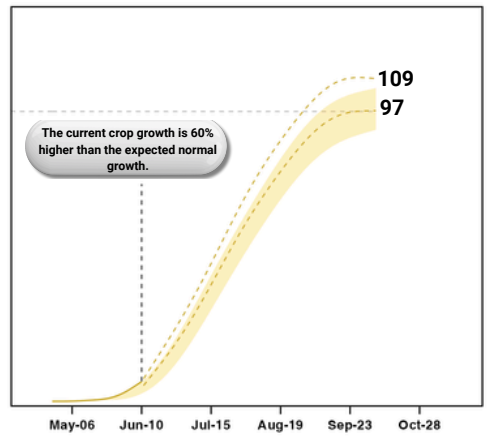
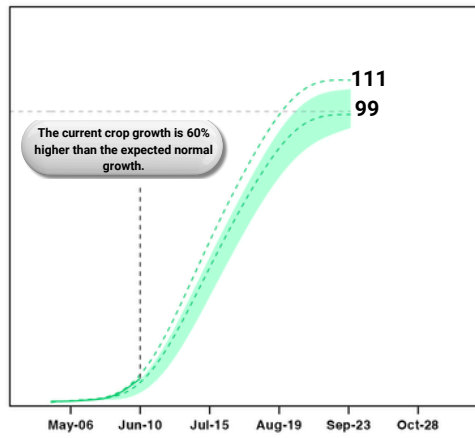
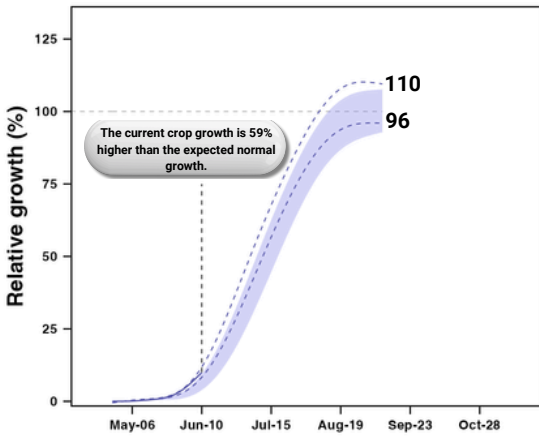
- **Obs 1:** The 2024 yield prediction is relative to the normal yield of the same maturity MG planted on the same date.
- **Obs 2:** The normal yield is the average yield expected from simulating a current crop variety using 40 years of historical weather data for a specific location and planting date.
- **Obs 3:** The normal yield serves as the 100% baseline for the 2024 yield prediction.

End-of-season growth prediction

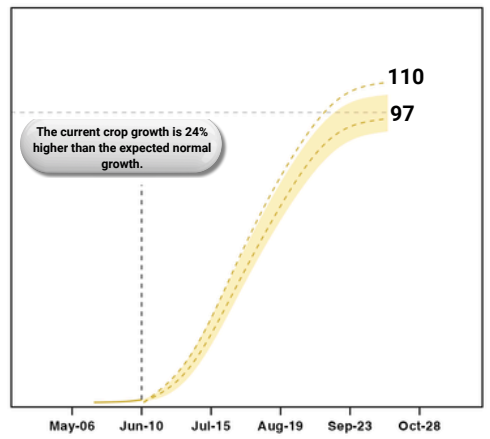
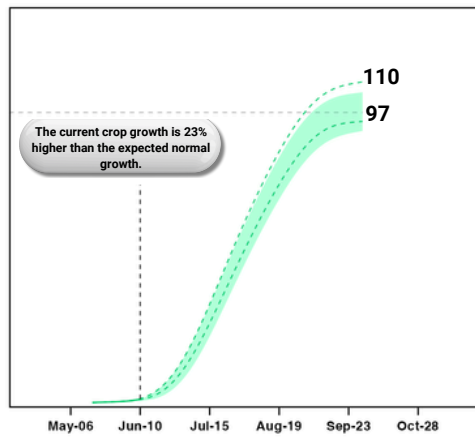
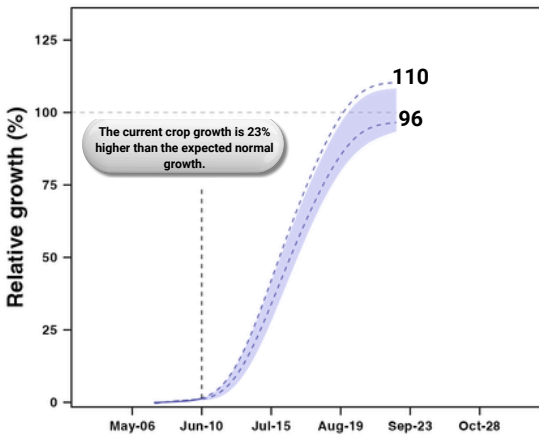
Planting date: 04-05-2024



Planting date: 04-26-2024



Planting date: 05-17-2024



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

Soil layer	Soil layer		
	0-6in	6-37in	37-56in
Portageville (Portageville clay)	83%	90%	87%
Charleston (Clana loamy fine sand)	84%	91%	86%
Clarkton (Malden fine sand)	73%	82%	84%

Soil layer	Soil layer		
	0-6in	6-37in	37-56in
Portageville (Portageville clay)	76%	88%	83%
Charleston (Clana loamy fine sand)	80%	86%	82%
Clarkton (Malden fine sand)	65%	83%	84%

Soil layer	Soil layer		
	0-6in	6-37in	37-56in
Portageville (Portageville clay)	66%	88%	85%
Charleston (Clana loamy fine sand)	70%	88%	87%
Clarkton (Malden fine sand)	44%	84%	88%

Soil layer	Soil layer		
	0-6in	6-37in	37-56in
Portageville (Portageville clay)	64%	89%	87%
Charleston (Clana loamy fine sand)	69%	90%	88%
Clarkton (Malden fine sand)	41%	85%	90%

Growth Cycle

Planting date: 04-05-2024

04-26-2024

05-17-2024

06-07-2024

Stage	Nodes	Harvest
MG 3 R5	12	08/04 ± 2 days
MG 4 R3	12	08/21 ± 2 days
MG 5 R1	12	09/04 ± 2 days

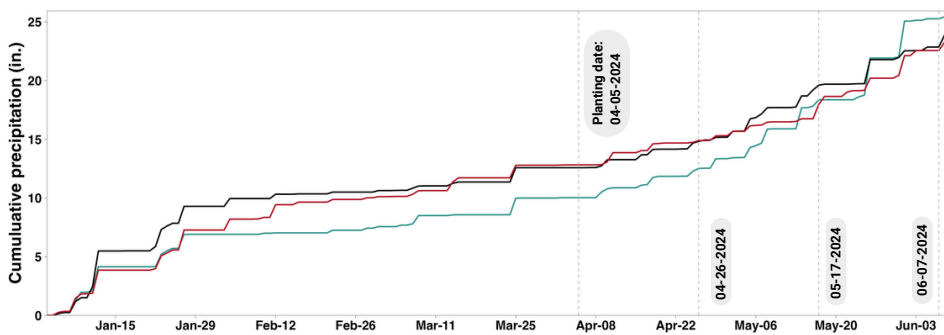
Stage	Nodes	Harvest
R1	8	08/17 ± 2 days
R1	8	09/01 ± 2 days
V8	8	09/13 ± 2 days

Stage	Nodes	Harvest
V4	4	09/01 ± 1 days
V4	4	09/13 ± 2 days
V4	4	09/24 ± 2 days

Stage	Nodes	Harvest
VC	0	09/14 ± 2 days
VC	0	09/24 ± 2 days
VC	0	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.