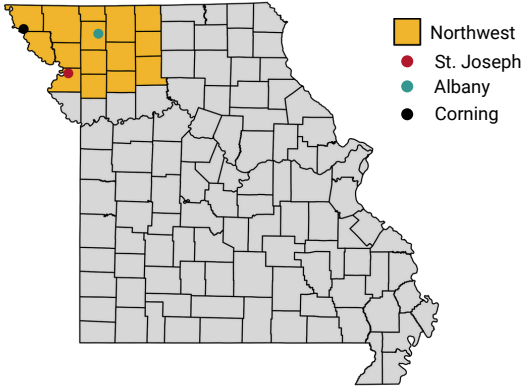




# SOYBEAN GROWTH MONITORING

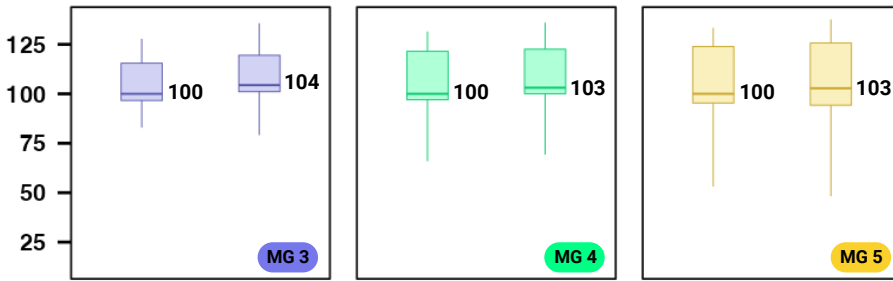
WEEK: 05/28 - NORTHWEST - MO



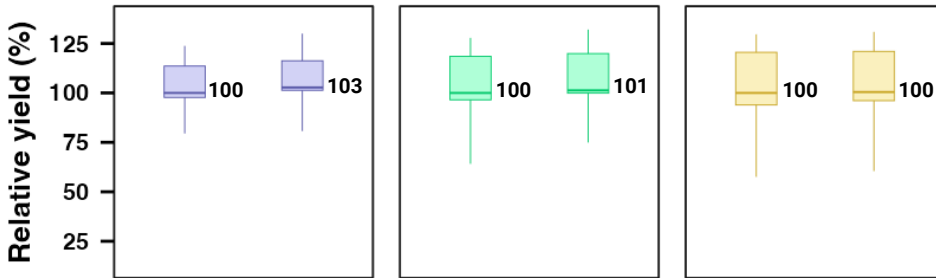
- Current vegetative growth is ahead of the expected growth in a normal year for all planting dates and maturity group scenarios.
- The expected total shoot growth at the end of the 2024 season for the 04-05 and 04-26 planting dates will likely be greater than in a normal year.
- Yield components haven't yet started to develop; therefore, the yield prediction for 2024 follows roughly the same trend as in a normal year.

## 2024 Relative Yield Prediction

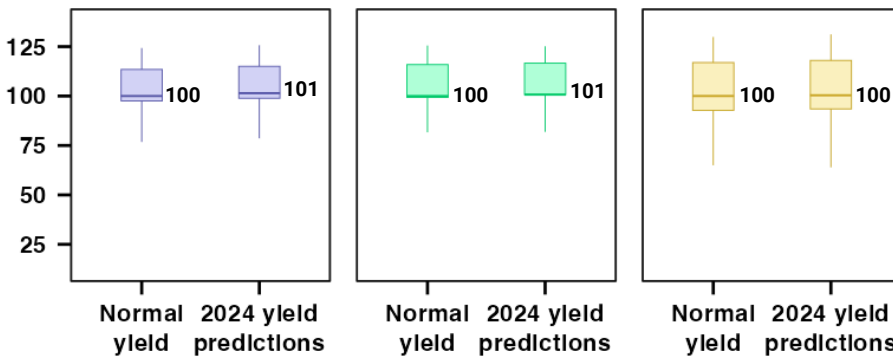
Planting date: 04-05-2024



Planting date: 04-26-2024



Planting date: 05-17-2024



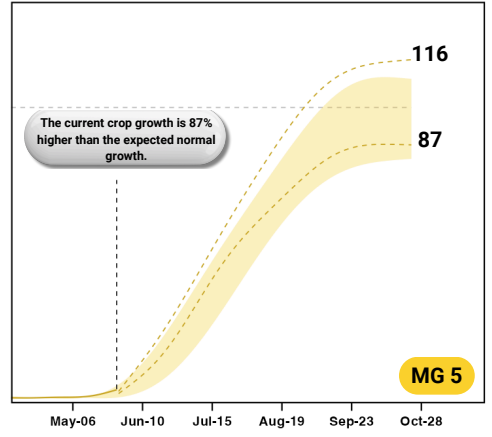
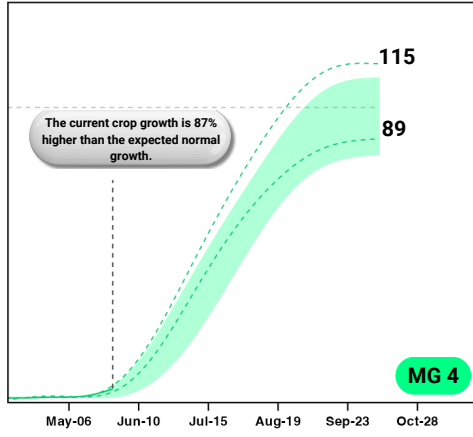
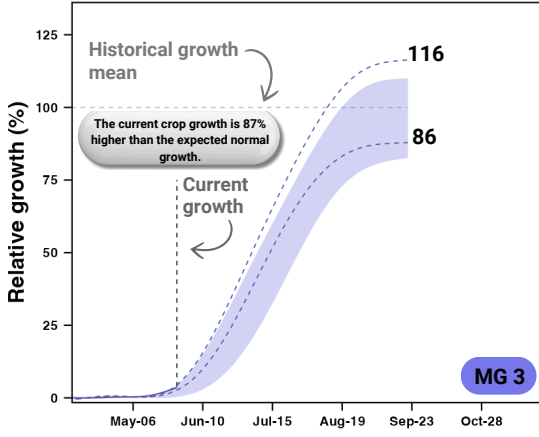
The 2024 yield prediction for a 3.0 MG planted on 04/05 is expected to be 4% higher than the normal yield.

The normal yield is the average expected yield for a specific location, based on weather scenarios observed over the past 40 years.

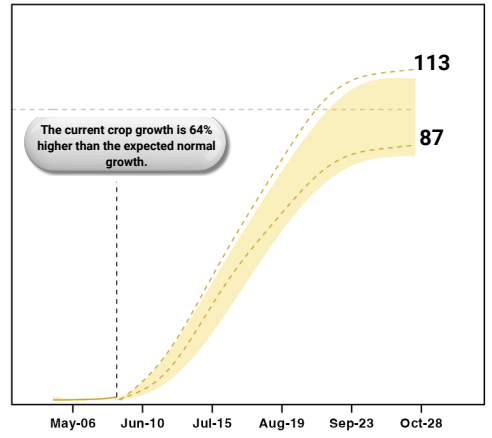
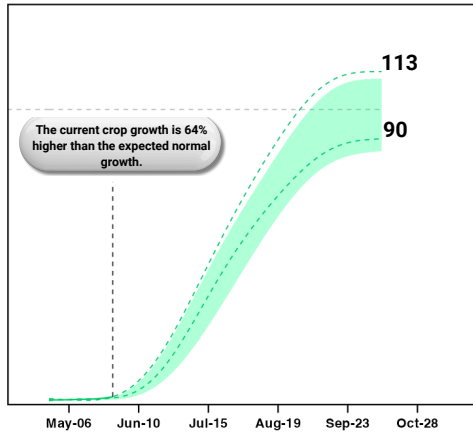
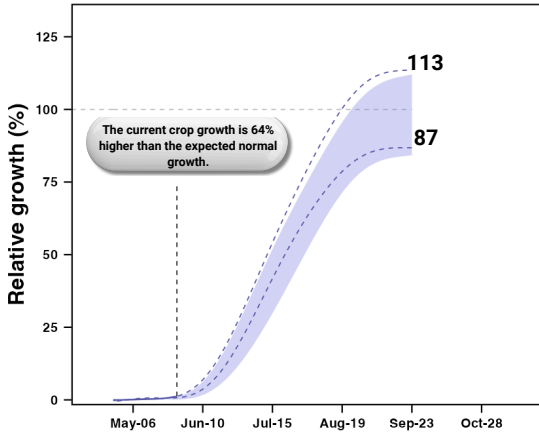
- Obs 1: The 2024 yield prediction is relative to the normal yield of the same maturity MG planted on the same date.
- Obs 2: The normal yield is the average yield expected from simulating a current crop variety using 40 years of historical weather data for a specific location and planting date.
- Obs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

### End-of-season growth prediction

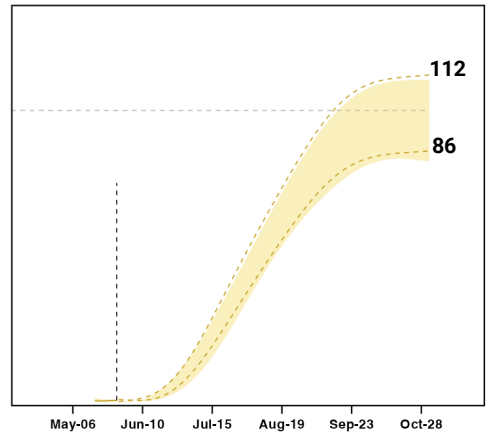
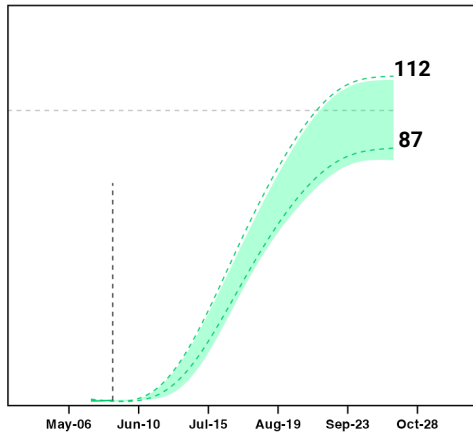
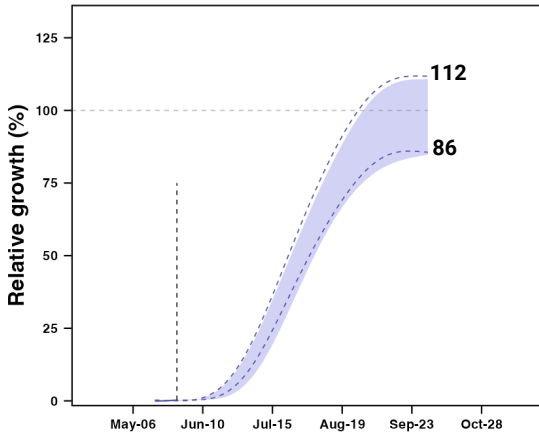
Planting date: 04-05-2024



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		
	0-8in	8-33in	33-49in
<b>Corning</b> (Dockery silt loam)	68%	85%	88%
<b>Albany</b> (Grundy silt loam)	63%	82%	84%
<b>St. Joseph</b> (Marshall silt loam)	61%	80%	79%

Soil layer	Soil layer		
	0-8in	8-33in	33-49in
<b>Corning</b>	69%	85%	90%
<b>Albany</b>	64%	83%	87%
<b>St. Joseph</b>	67%	83%	84%

Soil layer	Soil layer		
	0-8in	8-33in	33-49in
<b>Corning</b>	71%	86%	91%
<b>Albany</b>	70%	84%	88%
<b>St. Joseph</b>	73%	84%	85%

Soil layer	Soil layer		
	0-8in	8-33in	33-49in
<b>Corning</b>	--	--	--
<b>Albany</b>	--	--	--
<b>St. Joseph</b>	--	--	--

### Growth Cycle

Planting date: 04-05-2024

04-26-2024

05-17-2024

06-07-2024

Stage	Nodes	Harvest
MG 3 V6	6	08/25 ± 3 days
MG 4 V6	6	09/10 ± 3 days
MG 5 V6	6	09/23 ± 4 days

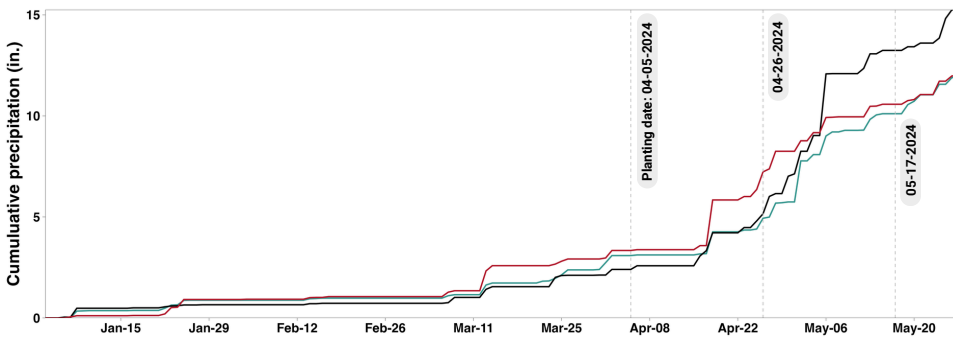
Stage	Nodes	Harvest
V4	4	09/02 ± 3 days
V4	4	09/17 ± 3 days
V4	4	09/29 ± 4 days

Stage	Nodes	Harvest
V1	1	09/11 ± 3 days
V1	1	09/25 ± 4 days
V1	1	10/06 ± 5 days

Stage	Nodes	Harvest
--	--	-- ± days
--	--	-- ± days
--	--	-- ± 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	--	--	--

Drought stress is estimated by the cumulative crop transpiration reduction.