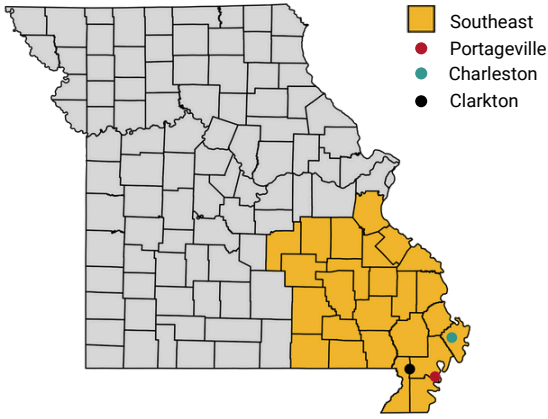




# SOYBEAN GROWTH MONITORING

WEEK: 07/23 - SOUTHEAST - MO



- Soil moisture remains high in non-irrigated fields. High air temperatures in the coming days are expected to increase crop evapotranspiration and water demand.

- Early-planted beans are in the final stages of seed filling, with more than 75% of the pod cavities filled.

- Yield predictions for irrigated fields are mostly slightly higher than average for a normal year.

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

• **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 | 18    | 08/06<br>± 2 days |
| MG 4 R5 | 22    | 08/23<br>± 2 days |
| MG 5 R5 | 16    | 09/06<br>± 2 days |

| Stage | Nodes | Harvest           |
|-------|-------|-------------------|
| R5    | 19    | 08/18<br>± 1 days |
| R5    | 20    | 09/01<br>± 1 days |
| R3    | 17    | 09/14<br>± 1 days |

| Stage | Nodes | Harvest           |
|-------|-------|-------------------|
| R5    | 16    | 08/31<br>± 1 days |
| R3    | 16    | 09/13<br>± 1 days |
| R1    | 16    | 09/24<br>± 2 days |

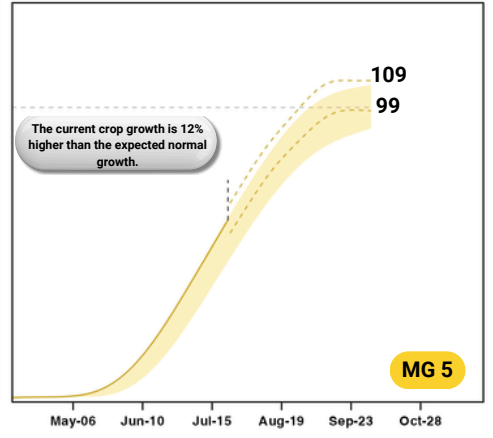
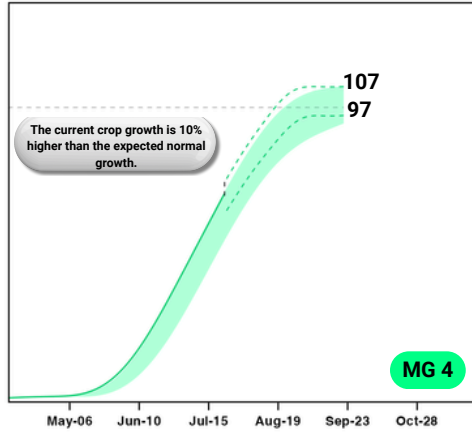
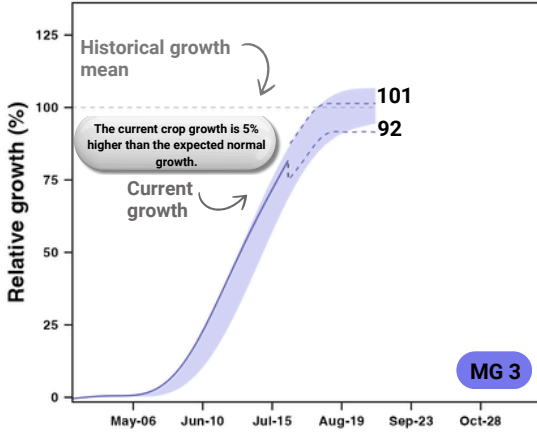
  

| Stage | Nodes | Harvest           |
|-------|-------|-------------------|
| R3    | 11    | 09/14<br>± 1 days |
| R1    | 11    | 09/24<br>± 1 days |
| V10   | 11    | 10/04<br>± 2 days |

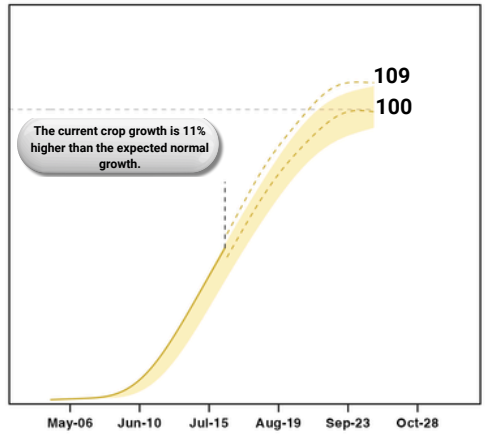
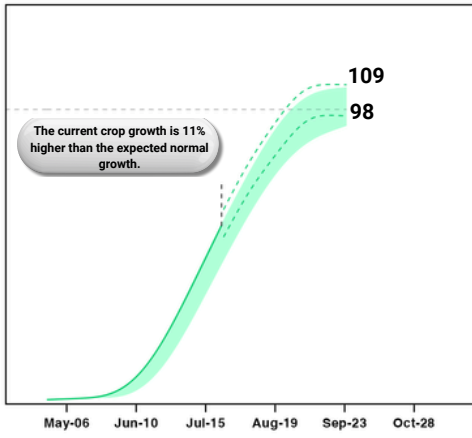
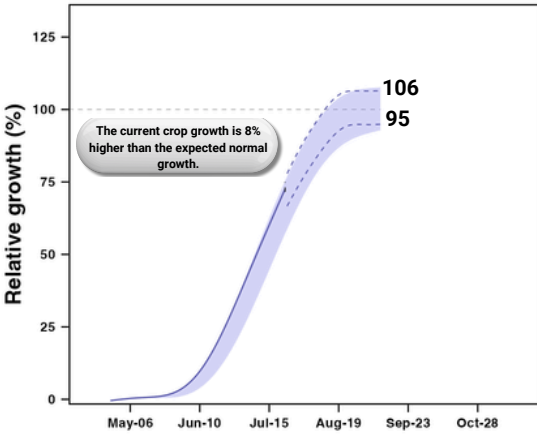
The stage and nodes indicate the current crop development as of the date of this report.

### End-of-season growth prediction

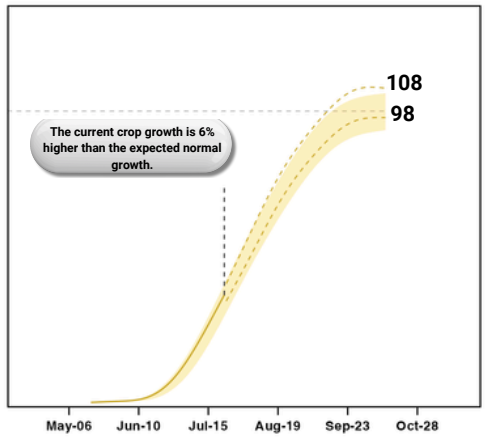
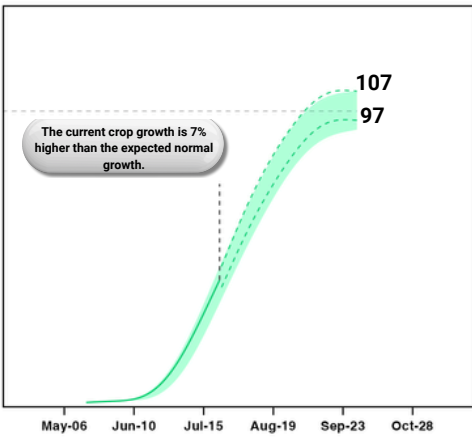
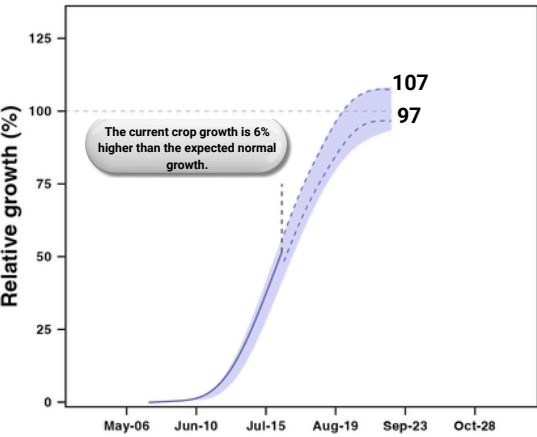
Planting date: 04-05-2024



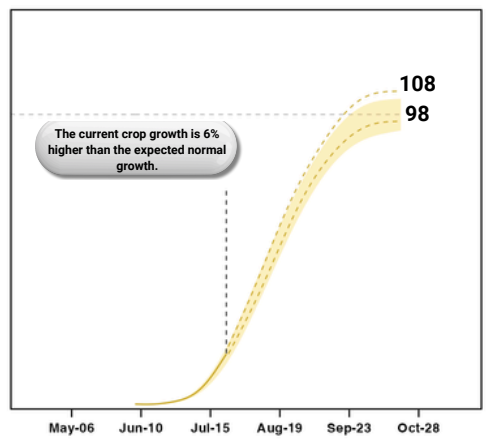
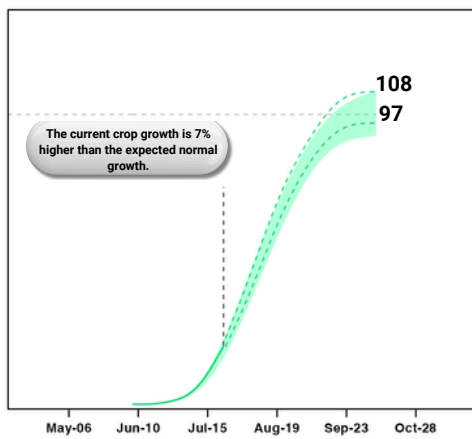
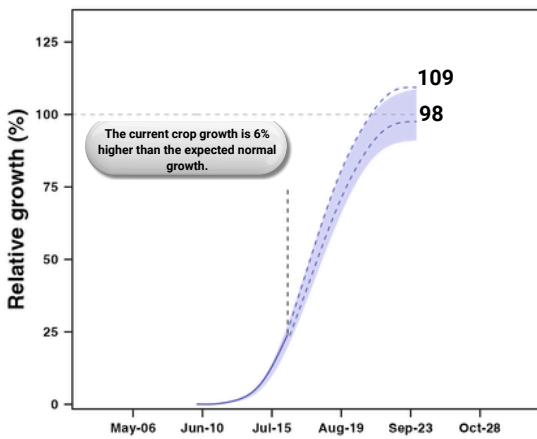
Planting date: 04-26-2024



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.

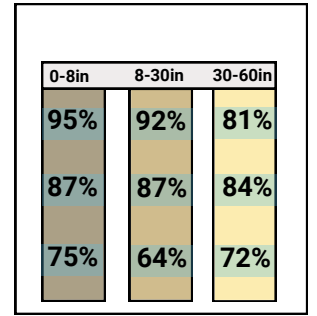
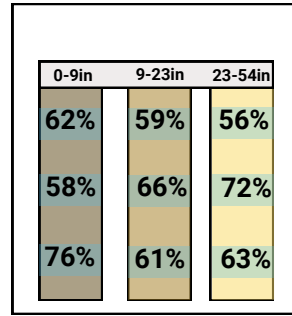
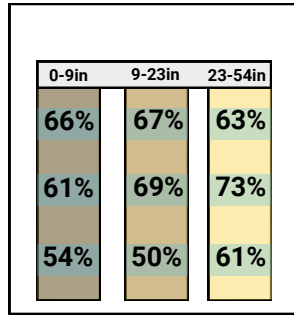
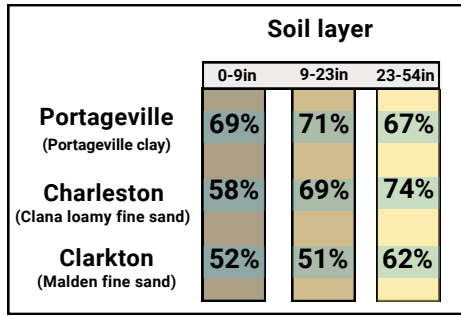
### Soil water content

Planting date: 04-05-2024

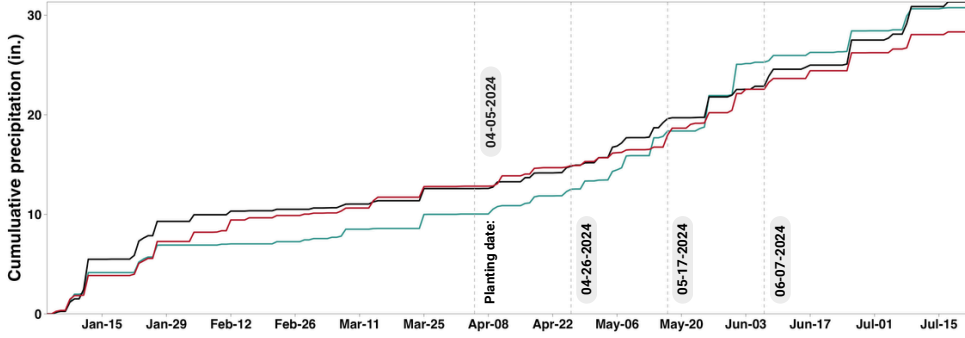
04-26-2024

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.