# SOYBEAN GROWTH MONITORING

SOYBEAN FARMING SYSTEMS RESEARCH AND EXTENSION

## WEEK: 27

**Soybean fields planted in April (April 5 and April 26) show contrasting yield forecasts across Missouri regions. In the northwest, dry conditions over the past few weeks have reduced attainable yields by up to 10 bu/acre on average. Late maturity groups (later than MG 4.0) were more impacted than earlier varieties (around MG 3.0).**

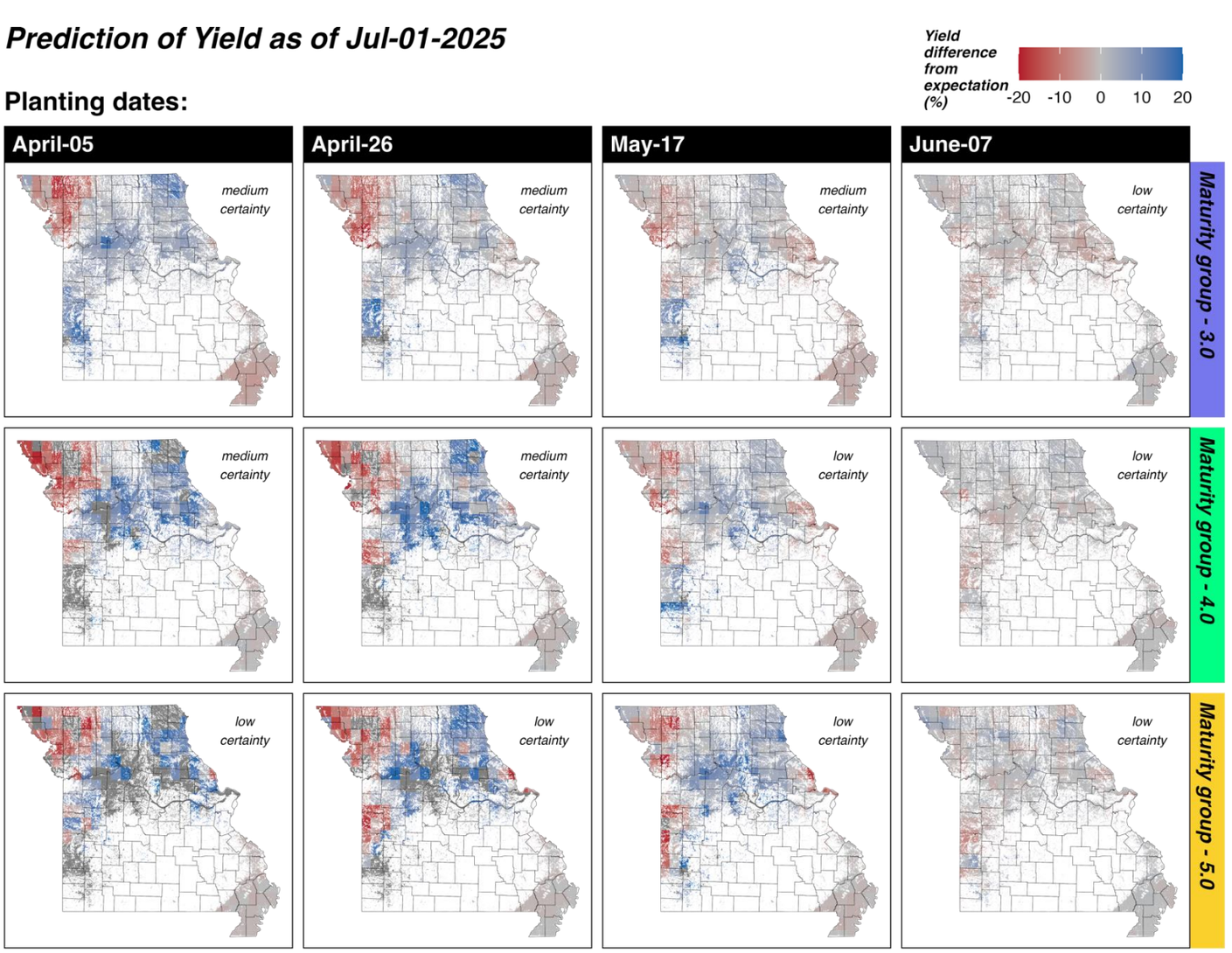
**In the northeast and central regions, yields are close to normal or show increases of up to 14 bu/acre for April-planted fields. Late MG 3s and early MG 4s appear to have benefited more from favorable environmental conditions than earlier MG 3s.**

**In irrigated areas of the southeast, forecasts show near-normal or slightly below-normal yields, likely due to excessive cloud cover during late May and June.**

**The forecasted irrigation requirement from July 1 to July 11 for furrow-irrigated systems ranges from 1.1 to 1.5 inches.**

**Yield predictions for May- and June-planted soybeans still carry low confidence, as most fields are currently in vegetative or early flowering stages.**

***Prediction of Yield as of Jul-01-2025***




**2025 Soybean Yield Forecast for Missouri**

*Yield is shown as a deviation from the normal expected yield for each of the 12 combinations of planting date (columns) and cultivar maturity group (rows). Blue indicates scenarios with expected yields above normal, red indicates below-normal yields due to the onset of adverse weather conditions, and gray represents yields close to the expected average. Note: yield deviations are relative to the normal expected yield for each specific scenario and are not directly comparable across scenarios*

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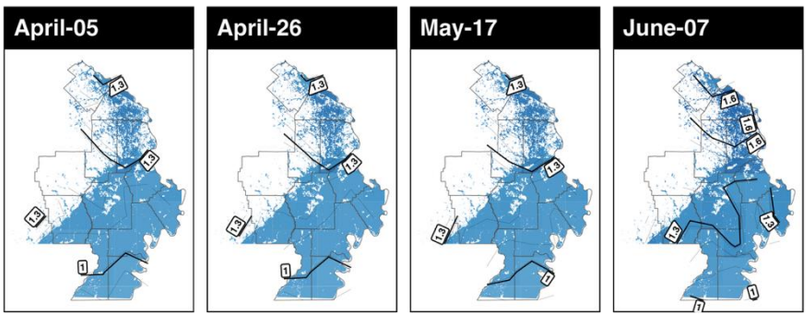
## Forecast of the required irrigation from Jul-03 to Jul-11

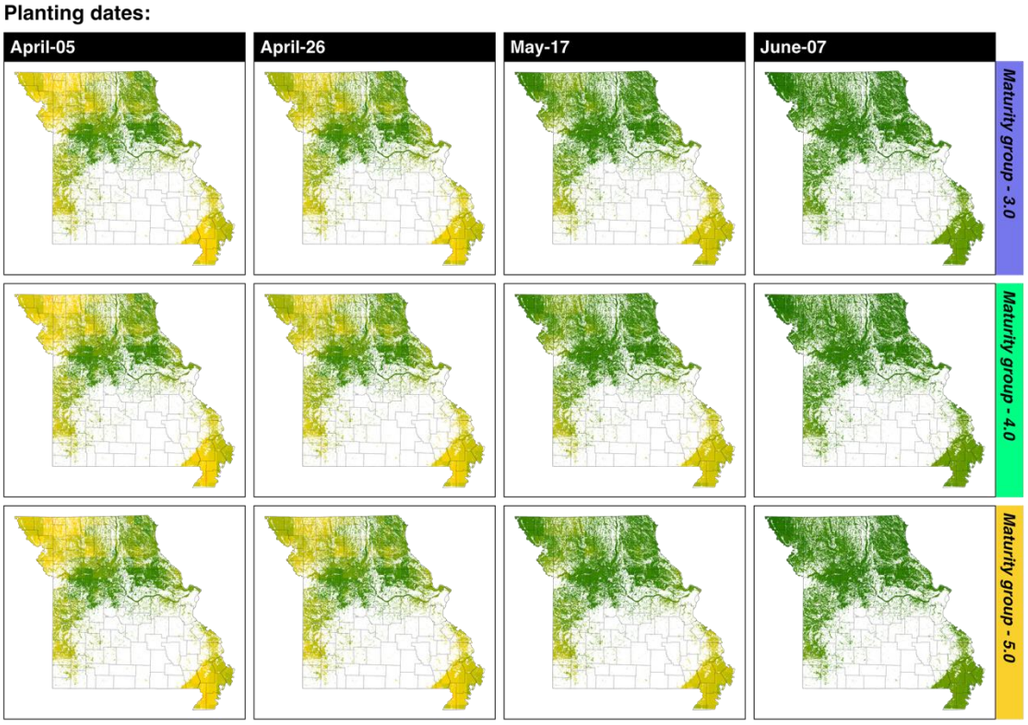
### Planting dates




*Irrigation requirement (in inches) for the Southeast region during the upcoming forecast period (7 to 14 days).*

## *Drought*

**Planting dates:**




*Drought is shown as the relative soil water content compared to its maximum water storage (field capacity). Soils at 100% (green) are fully replenished. Warm colors indicate drier conditions.*

## *Phenology and Development*

| | | April-05 | | | April-26 | | | May-17 | | | June-07 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Stage | Node | Harvest | Stage | Node | Harvest | Stage | Node | Harvest | Stage | Node | Harvest |
| MG 3.0 | CE | R5 | 16 | Sep-03 | R3 | 14 | Sep-09 | R1 | 11 | Sep-17 | V | 7 | Sep-26 |
| | NE | R5 | 16 | Sep-08 | R3 | 14 | Sep-13 | R1 | 11 | Sep-21 | V | 7 | Sep-30 |
| | NW | R3 | 16 | Sep-08 | R3 | 14 | Sep-13 | R1 | 11 | Sep-21 | V | 7 | Sep-29 |
| | SE | R5 | 18 | Aug-21 | R5 | 16 | Aug-30 | R3 | 12 | Sep-10 | V | 7 | Sep-21 |
| | SW | R5 | 17 | Aug-29 | R5 | 15 | Sep-05 | R3 | 11 | Sep-14 | V | 7 | Sep-23 |
| MG 4.0 | CE | R3 | 16 | Sep-19 | R1 | 14 | Sep-24 | R1 | 11 | Sep-30 | V | 7 | Oct-08 |
| | NE | R1 | 16 | Sep-25 | R1 | 14 | Sep-29 | V | 11 | Oct-05 | V | 7 | Oct-12 |
| | NW | R1 | 16 | Sep-23 | R1 | 14 | Sep-27 | V | 11 | Oct-04 | V | 7 | Oct-11 |
| | SE | R5 | 19 | Sep-07 | R3 | 16 | Sep-14 | R1 | 12 | Sep-23 | V | 7 | Oct-02 |
| | SW | R3 | 17 | Sep-14 | R3 | 15 | Sep-19 | R1 | 11 | Sep-26 | V | 7 | Oct-05 |
| MG 5.0 | CE | R1 | 16 | Oct-02 | R1 | 14 | Oct-06 | V | 11 | Oct-12 | V | 7 | Oct-19 |
| | NE | R1 | 16 | Oct-09 | R1 | 14 | Oct-12 | V | 11 | Oct-18 | V | 7 | Oct-24 |
| | NW | R1 | 16 | Oct-06 | R1 | 14 | Oct-11 | V | 11 | Oct-16 | V | 7 | Oct-23 |
| | SE | R3 | 16 | Sep-22 | R1 | 16 | Sep-28 | R1 | 12 | Oct-05 | V | 7 | Oct-13 |
| | SW | R1 | 17 | Sep-27 | R1 | 15 | Oct-02 | V | 11 | Oct-08 | V | 7 | Oct-15 |

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