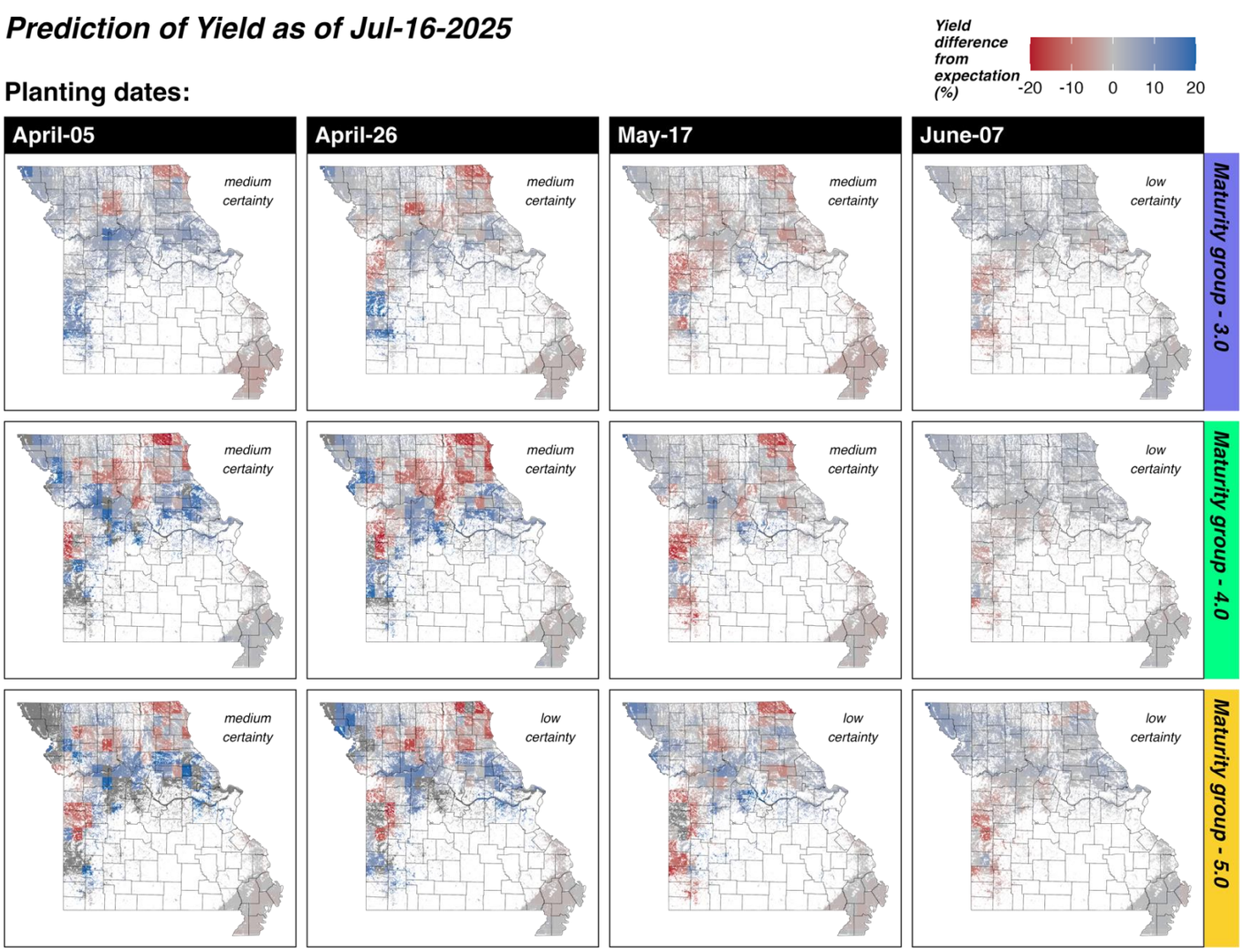
SOYBEAN GROWTH MONITORING

SOYBEAN FARMING SYSTEMS
RESEARCH AND EXTENSION

July 16th to July 30th

- Rainfall precipitation above the expected during the first half of July in the NW positively impacted the yield prediction for that part of the state.
- Contrarily, the NE region did not receive as much rainfall in the period, decreasing the yield forecast mainly for late MG planted on the late-April scenario.
- Central and SW regions overall remain with high yield potential for most planting dates due to favorable weather.
- A heat wave is forecasted to hit Missouri in the upcoming days. It will increase irrigation demand by up to 2.25 inches in the SE from the 16th to the 30th.
- Many regions and planting date scenarios will have soybeans in the pod-setting stage during the heat wave. This phase is remarkably sensitive to high temperatures. Yield may be negatively impacted.

Prediction of Yield as of Jul-16-2025



2025 Soybean Yield Forecast for Missouri

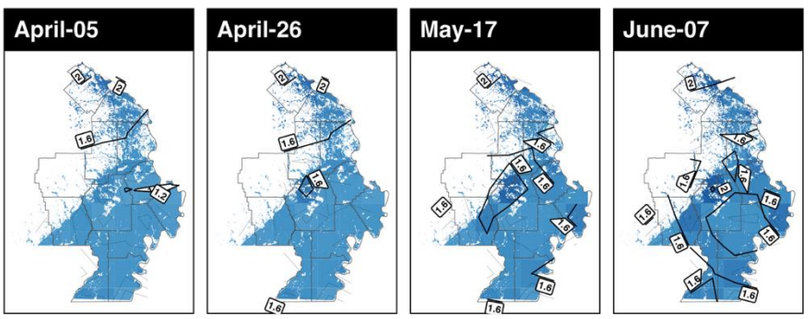
Yield is shown as a deviation from the normal expected yield for each of the 12 combinations of planting date (columns) and cultivar maturity group (rows). Blue indicates scenarios with expected yields above normal, red indicates below-normal yields due to the onset of adverse weather conditions, and 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

Contact information:
areis@missouri.edu

Extension University of Missouri
Variety Testing Program University of Missouri
Missouri Soybean Center University of Missouri
MISSOURI SOYBEANS

Forecast of the required irrigation from Jul-16 to Jul-30

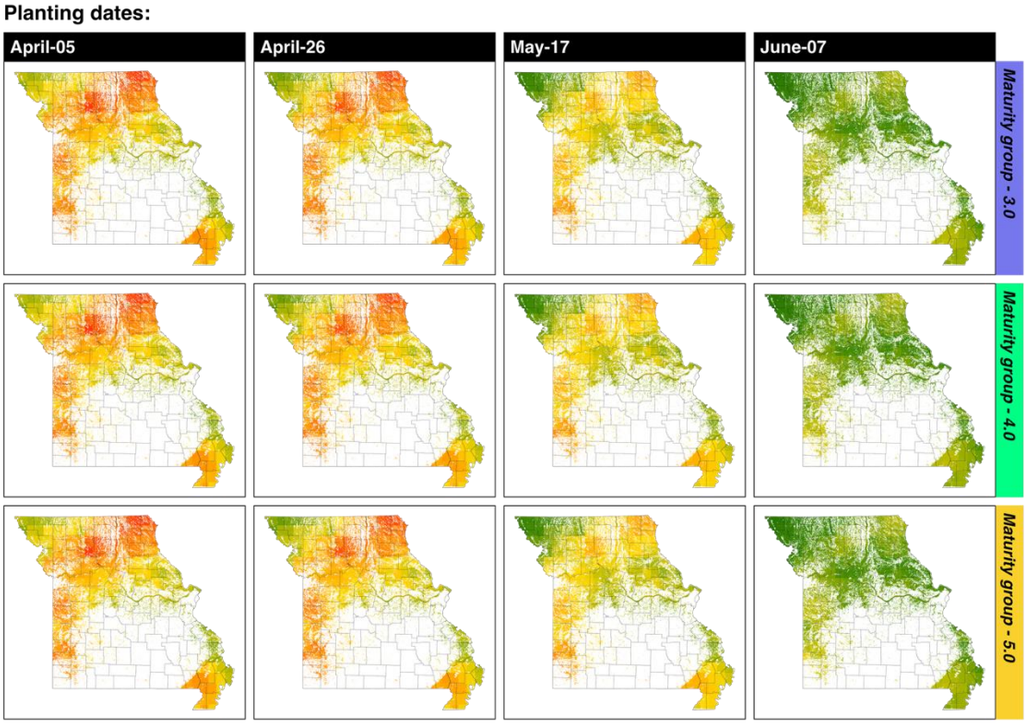
Planting dates



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

Soil Water Content as Proxy of 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	18	Sep-03	R5	15	Sep-09	R3	12	Sep-17	V	8	Sep-26
	NE	R5	17	Sep-08	R3	15	Sep-12	R1	12	Sep-20	V	8	Sep-30
	NW	R5	17	Sep-09	R3	15	Sep-14	R1	12	Sep-22	V	8	Sep-30
	SE	R5	18	Aug-21	R5	17	Aug-30	R3	13	Sep-10	R1	9	Sep-21
	SW	R5	18	Aug-29	R5	16	Sep-05	R3	12	Sep-13	R1	8	Sep-23
MG 4.0	CE	R3	18	Sep-19	R3	15	Sep-23	R1	12	Sep-30	V	8	Oct-08
	NE	R3	17	Sep-23	R1	15	Sep-26	R1	12	Oct-04	V	8	Oct-12
	NW	R3	17	Sep-25	R1	15	Sep-29	R1	12	Oct-05	V	8	Oct-12
	SE	R5	20	Sep-07	R3	17	Sep-15	R1	13	Sep-23	V	9	Oct-02
	SW	R3	18	Sep-14	R3	16	Sep-18	R1	12	Sep-25	V	8	Oct-05
MG 5.0	CE	R1	18	Oct-02	R1	15	Oct-06	V	12	Oct-13	V	8	Oct-19
	NE	R1	17	Oct-06	R1	15	Oct-10	V	12	Oct-16	V	8	Oct-23
	NW	R1	17	Oct-07	R1	15	Oct-12	V	12	Oct-18	V	8	Oct-24
	SE	R3	16	Sep-22	R3	17	Sep-28	R1	13	Oct-05	V	9	Oct-13
	SW	R3	18	Sep-26	R1	16	Sep-30	R1	12	Oct-07	V	8	Oct-15

Contact information: areis@missouri.edu

Extension University of Missouri | Variety Testing Program University of Missouri | Missouri Soybean Center University of Missouri | Missouri Soybeans