SOYBEAN GROWTH MONITORING

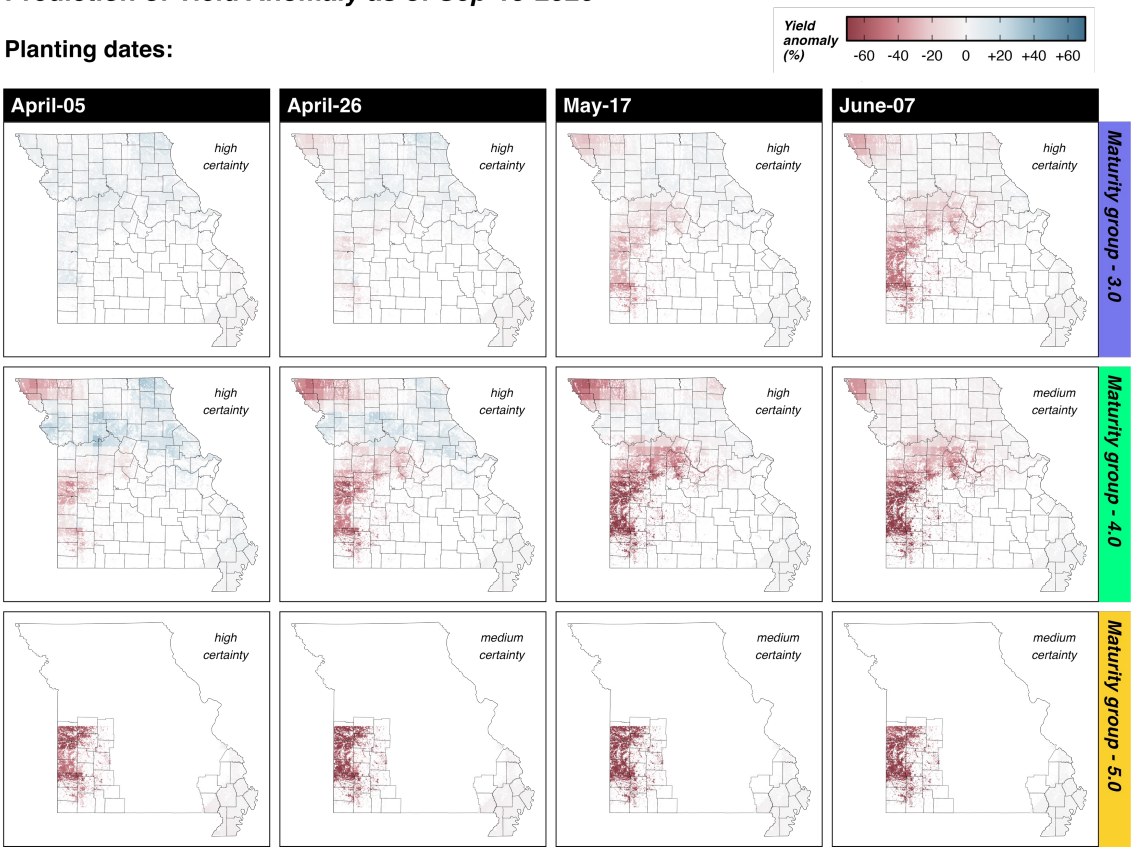
SOYBEAN FARMING SYSTEMS RESEARCH AND EXTENSION

September 15th to September 30th

- Early- and late-planted soybeans are acting as two different crops. Early-planted beans continue to hold onto yield potential, while later-planted beans are showing greater yield loss.
- In southwest Missouri, drought has intensified, with further deterioration in the yield forecast. There are reports of terminal drought and crop failure in the region.
- Drought is still evident, although last week's rainfall is not represented in the simulation.
- Even where heavy rainfall occurred, much of that water provided only brief relief rather than fully replenishing deeper soil moisture.

Prediction of Yield Anomaly as of Sep-15-2026

Planting dates:



2026 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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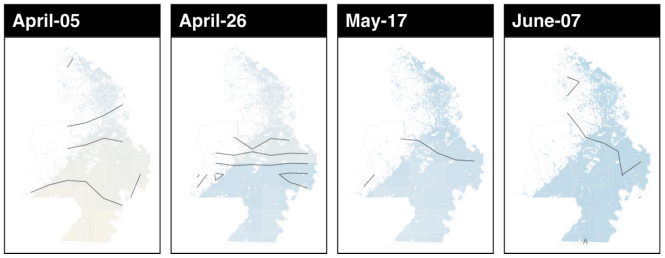
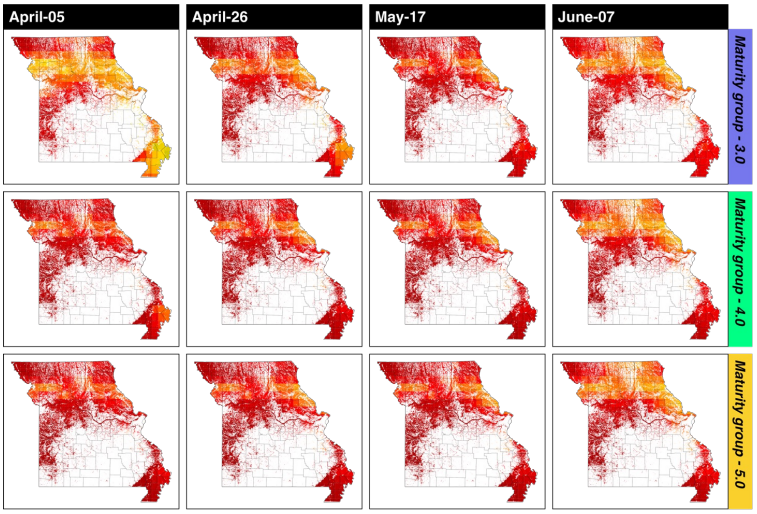
Water Demand Forecast from September 9th to September 24th

Planting dates

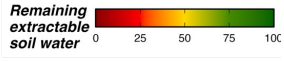


Water demand represents the estimated irrigation need in the absence of rainfall. If rainfall occurs, the amount of precipitation received should be subtracted from the forecasted water demand to estimate the remaining irrigation need.

Planting dates:



Soil Water Content as Proxy of Drought



Remaining extractable soil water is used as an indicator of drought stress. Values represent the percent o f plant-available water remaining in the soil relative to its maximum storage capacity. Green areas indicate soils with greater water availability, while yellow to red areas indicate drier conditions.

Phenology and Development

PD		April-05			April-26			May-17			June - 07		
MG	Region	Stage	Node	Harvest	Stage	Node	Harvest	Stage	Node	Harvest	Stage	Node	Harvest
3.0	CE	R8	20	Aug-30	R8	20	Sep-08	R7	20	Sep-15	R7	18	Sep-24
	NE	R8	21	Sep-06	R7	21	Sep-13	R7	20	Sep-19	R5	18	Sep-29
	NW	R8	21	Sep-05	R7	21	Sep-12	R7	20	Sep-18	R5	18	Sep-28
	SE	R8	18	Aug-18	R8	19	Aug-30	R8	19	Sep-08	R7	18	Sep-21
	SW	R8	19	Aug-25	R8	20	Sep-02	R8	19	Sep-08	R7	18	Sep-16
4.0	CE	R7	25	Sep-16	R7	24	Sep-22	R7	23	Sep-26	R5	20	Oct-05
	NE	R7	26	Sep-22	R5	25	Sep-27	R5	23	Oct-02	R5	21	Oct-11
	NW	R7	26	Sep-21	R5	25	Sep-25	R5	23	Sep-30	R5	21	Oct-10
	SE	R8	23	Sep-05	R7	23	Sep-14	R7	22	Sep-21	R5	20	Oct-02
	SW	R8	24	Sep-08	R8	24	Sep-13	R7	23	Sep-17	R5	20	Sep-25
5.0	SE	R7	16	Sep-19	R5	18	Sep-27	R5	17	Oct-03	R5	16	Oct-12
	SW	R7	17	Sep-18	R7	18	Sep-21	R7	18	Sep-25	R5	17	Oct-03

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