

Replanting

Overview

Many factors can cause stand reduction in soybeans, including failure to germinate, low emergence, inferior seed or soil conditions, pests and disease. Consider replanting in order to salvage your yield potential.

Action steps

1. Determine what led to the stand reduction:

- Factors that may reduce stand preemergence are equipment malfunctions, poor seedbed preparation, too much or too little soil moisture, poor-quality seed, soil crusting, disease, insects or herbicide injury.
- Factors that may reduce stand postemergence are insects, disease, herbicide injury, hail, flooding or animals.

2. Estimate current viable population: If damage occurs to existing stand, wait several days to determine impact. Sample random sites across the field to determine population as some areas may not require replanting. Count soybeans or use the hula hoop method to determine population.

3. Estimate yield potential of current stand: Determine expected yield potential of the current stand. (See Table 1.) For example: a field with 30-inch rows and a current population of 60,000 could still yield 94% of normal.

Population	30" Rows	Solid Seed
160,000	100%	100%
120,000	100%	100%
80,000	100%	96%
60,000	94%	92%
40,000	88%	87%
20,000	79%	77%
10,000	64%	58%

4. Estimate yield potential due to later planting: Determine yield potential based on planting date. (See Table 2.) For example: soybeans replanted on June 10 are expected to yield 90% of normal.

Table 2. Estimated Soybean Yield Potential by Planting Date

Planting Date	Yield as Percent of Normal
May 20	100%
May 30	95%
June 10	90%
June 20	79%
June 30	71%

- 5. Compare potential yields:** Compare yield potentials to determine if replanting is warranted. In this example, the 60,000 stand has more potential (94%) than replanting on June 10 (90%).
- 6. Other considerations:** Consider other factors such as demands on time, other cropping practices, and pesticide, labor, fuel and seed costs in your replant decision.



30-Second Summary

- When faced with a decreased soybean stand, analyze yield potential of the current stand versus a later-planted stand to determine if replanting is warranted.
- Consider the additional cost of seed, fuel, machinery, pesticides, labor and other expenses associated with replanting.

For more information, contact:



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NOTES:
