

Corn replanting: Northern Corn Belt

Overview

If your Northern Corn Belt fields have been damaged by heavy rain, hail, pests or poor emergence, you may consider replanting. Several factors should go into your decision, including whether yield losses justify replanting expense, effects of late-season planting and insurance adjustments.

What you should know

- Yield potential can help you determine if replanting is worthwhile. Calculating yield loss (see tables) can tell you whether the yield potential of replanted corn outweighs the yield potential of the existing stand.
- If corn is severely damaged, you may consider switching to a later-season crop. If you do choose to replant, work with a local consultant to select hybrids with shorter relative maturities appropriate for your area.
- Be sure to look into crop insurance adjustments when replanting or switching to a later-season crop.

Action steps

1. **Calculate yield loss:** To estimate yield loss due to stand reduction, first determine the plant population of the existing stand. Then refer to Table 1 to determine the potential yield loss based on existing plant population.
2. **Factor in additional yield loss for nonuniform stands:** Large gaps of two feet or more in the stand can reduce grain yield by about five percent in populations of 14,000 to 28,000 plants per acre. If plants are uneven, add another five percent to the estimated yield loss due to stand reduction.
3. **Estimate yield loss due to later replanting date:** Using Table 2, determine the expected yield loss for a later-than-optimum planting date. Note that optimum planting dates vary by location.

Table 1. Grain Yield Loss Based on Plant Population for Corn Planted Prior to May 1

Plants per Acre	Percent Grain Yield Loss
30,000+	0
26,000	6
22,000	12
18,000	21
14,000	33

Table 2. Grain Yield Loss Based on Corn Planting Dates

Planting Date	Percent Grain Yield Loss
May 15	9
May 20	12
May 25	14
May 30	17
June 4	23
June 9	29
June 14	35



30-Second Summary

- When crops have sustained significant damage, replanting may be necessary.
- Factor in several variables, including calculating yield losses, to decide if replanting is worthwhile.
- If replanting, be sure to select late-season hybrids that will work for your area.

For more information, contact:



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NOTES:
