



# Twin-row corn

## Overview

Extensive research illustrates that corn planted in a twin-row configuration can have a significant yield advantage versus a single-row crop. Twin rows increase the uniformity of a corn crop and more efficiently absorb nutrients, maximizing genetic yield potential.

## What you should know

- Corn roots grow in a circle, and in a twin-row configuration, roots have more space for growth. Consider that in a 38,000–population field planted in single 30-inch rows, roots use 14.4% of acreage for growth and moisture gathering. Compare that with 44.5% in a twin-row configuration. Large roots maximize nutrient retrieval and moisture absorption.
- Twin rows tend to result in larger stalks, which can increase tonnage and relative feed value. In one university study, this translated to a 29% increase in milk production.<sup>1</sup>
- Twin-row corn provides increased shading that creates more competition for developing weed seedlings.
- Twin-row corn is more susceptible to insect threats, particularly rootworms. Growers in high-risk areas should consider the potential for increased insecticide costs before planting.

## Action steps

1. **Plant consistently for uniformity:** Twin-row plants are seeded in paired rows, usually 7 – 8 inches wide. Each row center is spaced at 30 inches. Within the twin rows, plants are staggered diagonally at about 10 inches.
2. **Support with more nutrients:** Twin-row leaves are more efficient at capturing sunlight. This fosters taller plants, bigger ears and larger stalks that create a canopy to shade the ground and conserve water.
3. **Combine as usual:** A standard 30-inch corn head harvests twin-row stalks as easily as a single 30-inch row.

<sup>1</sup> Jarek, K. and Lauer, J. "Evaluating Twin-Row Corn Silage Production." University of Wisconsin Extension. <https://outagamie.extension.wisc.edu/files/2011/09/MFA-MFRP-White-Paper-Evaluating-Twin-Row-Corn-Silage-Production-1-12-12.pdf>.



*Combine heads traditionally used in single-row fields also can harvest twin-row corn.*



## 30-Second Summary

- Twin-row planting can provide a significant yield bump.
- Twin-row corn captures more nutrients, which can lead to better tonnage and relative feed value.
- Twin-row corn can be harvested with the same combine head as single-row corn.

## NOTES:

For more information, contact:

**NuTech**  
Seed®

[www.nutechseed.com](http://www.nutechseed.com)  
1-888-647-3478