

Cost Benefits of the Interseeder and Applicator

The Interseeder can help farmers increase potential profits through:

- Corn yields can increase due to a rotation effect from planting corn in a grass/legume sod. (7 bu/acre at \$6.00/bu, benefit \$42.00/acre)
- Nitrogen use can be reduced by 50lbs/acre with legume cover crops. (at 50 lb/acre and \$0.65/lb, benefit: \$32.50/acre)
- Increase fall forage from the cover crops.. (at 1 ton/acre and \$100.00/ton, potential benefit: \$100.00/acre)
- Combine a sidedress application (\$10/acre) a post emergent spray (\$10/acre) and cover crop planting (\$19/acre) into one interseeder trip (\$20/acre): Net benefit: \$19/acre.



Contact Information

Interested in learning more about the Penn State Interseeder?

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Penn State Interseeder and Applicator

A new machine that helps reduce the time, energy, and costs of planting cover crops in corn and potentially other crops.



About the Interseeder and Applicator

- Seeds cover crops between rows of growing crop that will not be competing with the main crop.
- Establishes cover crops following grain crops or silage crops in short season areas.
- Improves cash crop productivity while reducing environmental impact.
- Reduces potential for runoff, erosion and nutrient leaching.
- Improves soil quality and organic matter.



Penn State Interseeder and Applicator

The Interseeder is a new machine designed to sow cover crops in standing row crops while applying post emergent directed herbicides and fertilizer. The Interseeder has wavy coulters that create a seedbed for broadcasting cover crop seeds between rows, even in tough no-till conditions. The machine can be fabricated from 2 to 12 rows with a number of different coulters and applicator options. By having all these uses on one machine, it reduces the time, energy, and costs of planting cover crops in corn and potentially other crops.

The Interseeder facilitates no-till relay cropping and makes it possible for

farmers to develop a soil cover year round, be environmentally responsible, and potentially improve crop yield. The application technology on the Interseeder provides for more efficient N and herbicide use with N applied next to the rows and herbicide under the corn canopy. The Interseeder-based relay cropping system can expand the use and benefits of cover cropping, boost corn yields, provide some potential fall or spring forage and increase winter cover and feed for wildlife. The Interseeder can even be used in the off season for establishing wildlife food plots or renovating pastures with legumes.

