Cover Crop Comparison Strip Trial

"MU Certified" Strip Trial Program

Objective:

Can winter wheat successfully substitute for cereal rye without causing a negative yield impact?

Approach:

Compare strips of winter wheat, cereal rye, and no cover crop.

Key design elements:

- Farmer controls timing of cover crop termination date using herbicides.
- Soybean, corn, and milo preferred grain crops to follow the cover crops.
- Minimum of five replicates (15 strips).

<u>Information needed to layout trial:</u>

Farmer Information:

Farmer Name:	Phone:	Email:
MU Extension Contact:	Phone:	Email:
Applicator/Ag Specialist Name:	Phone:	Email:

Field Information:

Field County/location/size:	
Date cover crop(s) planted:	Seeding Rate:
Planned grain crop:	2019 Grain Crop:

Equipment Information:

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Sprayer type/model:	Sprayer width (ft):	GPS enabled? yes or no
Spray controller type/model:		GPS enabled? yes or no
Planter type/model:	Planter width (ft):	GPS enabled? yes or no
Combine type/model:	Combine width (ft):	GPS enabled? yes or no
Yield monitor type/model:		GPS enabled? yes or no

Cover crop comparison trial in Dade County showing winter wheat, cereal rye, and no cover crop strips. Image was taken April 9, 2019.



Interested?

Contact the local Extension Office or Theresa Musket (<u>MusketT@missouri.edu</u>; 573-884-8696).







More Information

Key measurements

- Aerial imagery will be taken to monitor cover crop and grain crop growth.
- High-resolution images will be taken to monitor ground cover and weed pressure.
- Farmer provides GPS referenced as-applied map of the cover crop strips.
- Farmer provides GPS referenced yield map of the harvested grain crop.

Key additional information needed from farmer:

- Farmer estimate of cover crop growth stage and height/biomass at termination date.
- Information on cover crop and grain crop including planting dates, seeding rates, termination/harvest dates, herbicide management, and for corn, nitrogen fertilizer program.

Key trial implementation notes:

- Assistance will be provided to create a strip layout map for your field.
- For soybean crops, can plant at an angle to both treatment and harvest directions.
- Strip widths need to be wider than combine width.

High resolution images of cover crop treatments taken on April 9, 2019, in Dade County.







