

# Cover Crop Before Corn Comparison Strip Trial

## "MU Certified" Strip Trial Program

**Objective:**

Do cover crop systems provide sufficient cover while not compromising corn management?

**Approach:**

Compare strips of farmer's choice of cover crop(s) versus no cover crop.

**Key design elements:**

- Trial focused on cover crops in fields following soybean rotating to corn.
- Farmer controls timing of cover crop termination date using herbicides.
- Minimum of five replicates (10 strips).

**Information needed to layout trial:****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: Corn	2019 Grain Crop:

**Equipment Information:**

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 Audrain County showing cover crop and no cover crop strips. Image was taken April 26, 2019.**

**Interested?**

Contact the local Extension Office or Theresa Musket ([MusketT@missouri.edu](mailto:MusketT@missouri.edu); 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 nitrogen fertilizer program.

### Key trial implementation notes:

- Assistance will be provided to create a strip layout map for your field.
- Strip widths need to be wider than combine width.

**High resolution images of strips with and without cover crop taken on June 6, 2019, in Audrain County, showing corn crop with the different treatments.**

**Cover Crop**



**No Cover**

