

## **Cover Crop Fact Sheet**

SUSTAINABLE FARMING ASSOCIATION . SFA-MN.ORG/SOIL

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- Cover crops are a "tool" that can provide substantial benefits to improving soil health, productivity and farm profitability.
- Cover crops are not a "silver bullet" but work best in combination with diverse crop rotations, no-till, and livestock integrated into the cropping enterprise through planned grazing.
- Complex cover crop blends, or "biological primers," typically consist of eight or more plant species in the mix.
- **Biological primers** have demonstrated their effectiveness in jump-starting the biological systems in many soil types and farm applications.
- The more diverse the complex cover crop mix, the better the response from soil microbes and the higher level of drought tolerance.
- **Biological primers** are customized to meet the needs and goals of a particular field and farm operation.
- **Previous crop history** and future cropping plans for a particular field are essential in determining a specific cover crop blend.
- A sound crop rotation must include representatives from each of the four major crop types: cool-season grasses, cool-season broadleaves, warmseason grasses and warm-season broadleaves (see table below for examples).
- **Drill boxes** are filled only one-third full when planting complex cover crop blends to minimize small seed from sifting to the bottom of the seed box.
- Complex cover crop blends may be mechanically harvested as forage; however, the greatest biological and economic impact typically occurs when grazing livestock harvest approximately one-third of the cover crop and trample the remainder to protect soil and feed microbes.
- Aim for 120-145 percent of full seeding rate per acre in cover crop blends.
- Be aware of herbicide rotation restrictions when considering cover crops.

## **RESOURCES**

**SFA soil health portal:** sfa-mn.org/soil

Wisconsin Extension herbicide rotation restriction brochure: tinyurl.com/zcg9qum

**YouTube:** Search "Innovative Notill" and "Slake and Infiltration Test"

**Burleigh County (N.D.):** bcscd.com

Cover Crop Chart: mandan.ars.nrcs

**Midwest Cover Crop Council** 

SmartMix Calculator<sup>TM</sup>: greencoverseed.com

## **EXAMPLES OF MAJOR CROP TYPES**

**Cool-season grasses:** Oats • Barley • Wheat • Annual rye • Cereal rye • Triticale

Cool-season broadleaves: Field pea • Red clover • Hairy vetch • Common vetch • Turnip • Daikon radish

Warm-season grasses: Sorghum-sudan • Millets • Corn

Warm-season broadleaves: Soybean • Cowpea • Sunflower • Buckwheat