Cover Crop Fact Sheet

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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, warm-season 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.

- **Aim for 750,000-1,000,000 seeds per acre in cover crop blends.**

- **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.

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**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

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