Camelina (Camelina sativa) is a widely adaptable oilseed crop native to Eastern Europe, but can also be grown in the U.S. This oilseed contains 30 to 40% oil that is high in Omega-3 fatty acids. Low input crop adaptable to some of the poorer soils of NW Pennsylvania.

**Field production and agronomics approach:**
- Work with Ernst Seeds to establish 40 to 70 acres of camelina, including two newly released cultivars. Seed stock will be obtained from Montana.
- Enough seed for an additional 250 acres will be secured for additional on-farm production with selected interested growers. Establish field plots on at least five NW farms.
- Establish strip test of broadcast and no-till seeding methods. Replicate four times in two fields.
- Establish strip tests with variable nitrogen (and sulfur) fertilization rates. Replicate four times in two fields.
- Evaluate yields using commercial harvesting equipment. Estimate biomass production, ground cover, harvest date, etc. Develop protocols for combining with minimal losses.

**Assessment for use as poultry feed:**
- Feeding experiments based on established standards. Potential benefits for broilers may include a lower cost diet, benefits for bird health or growth potential, and a meat product with higher vitamin E, Omega-3 fatty acid levels and reduced lipid peroxidation than controls.

**Assessment for use in biodiesel production:**
- Lake Erie Biofuels will test six samples of oil, two from each on three different cultivars of Camelina.