

Table 1. Experiment 2 workflow, with agronomic field operations comprising each weed management system during each year of the proposed project. CC = cover crop. T = tillage.

System	2019	2020	2021	2022
+CC / +T	Early fall –seed annual polyculture cover crop (wheat/oat/pea) and flax. Cover crop winter killed.	Spring - When CC residue breaks down, cultivate to control weeds. Summer - Plant annual cover crop polyculture, till as green manure. Early fall - plant wheat/oat pea. Cover crop winter killed.	Spring - When CC residue breaks down, cultivate to control weeds. Summer - Plant annual cover crop polyculture, till as green manure. Early fall - plant wheat/oat pea. Cover crop winter killed.	Spring - When CC residue breaks down, cultivate to control weeds. Summer - Plant annual cover crop polyculture, till as green manure. Early fall - plant wheat/oat pea. Cover crop winter killed.
+CC / -T	Early fall – seed annual polyculture cover crop (wheat/oat/pea) and flax. Cover crop winter killed.	When CC breaks down, plant perennial polyculture cover crop (legume + grass). Mow as needed.	Early season mowing as needed to control weeds.	Early season mowing as needed to control weeds.
-CC / +T	Early fall – seed flax.	Growing season - Till as needed to control weeds.	Growing season - Till as needed to control weeds.	Growing season - Till as needed to control weeds.
-CC / -T	Early fall – seed flax	Growing season - Mow or propane flame as needed to control weeds.	Growing season - Mow or propane flame as needed to control weeds.	Growing season - Mow or propane flame as needed to control weeds.