
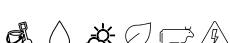

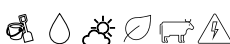










KBS LONG-TERM AGROECOSYSTEM RESEARCH (LTAR) ASPIRATIONAL CROPPING SYSTEM & NRCS CONSERVATION PRACTICES

The Aspirational Cropping System at the KBS LTAR could be implemented on your farm using NRCS Conservation Practices. Ask your local field office for a Conservation Plan to get the process started:
<https://www.nrcs.usda.gov/state-offices/michigan/nrcs-michigan-field-offices>

KBS Aspirational Cropping System		NRCS Soil Health Principles & Resource Concerns Addressed*	Related NRCS Conservation Practice Standards (CPS) and Activities * **
Crop Rotation	Corn, Soybean, Winter Wheat, Winter Canola, Diverse Perennial Forage	Maximizing Living Roots Maximizing Biodiversity 	Conservation Crop Rotation (Code 328) Pasture and Hayland Planting (Code 512)
Pesticide Management	Pesticide applications based on scouting and disease models, fungicide seed treatment on corn, wheat & canola; insecticide seed treatment on corn only	Minimizing Disturbance 	Part of a Pest Management Conservation System (Code 595)
Tillage	None	Minimizing Disturbance Maximizing Soil Cover 	Residue & Tillage Management (No-Till - Code 329 or Reduced Till - Code 345)
Cover Crops	Grass & brassica after corn; legume after wheat; legume, grass & forb after canola	Maximizing Living Roots Maximizing Biodiversity Maximizing Soil Cover 	Cover Crop (Code 340)
Fertility	Variable rate, split applications, N credits, grid soil sampling, banded P, Maximum Return to Nitrogen (MRTN) rates	Minimizing Disturbance 	Nutrient Management (Code 590), Soil and Source Testing for Nutrient Management (CEMA 217)
Conservation Plantings	Integrating prairie strips on erodible areas of the field	Maximizing Biodiversity Maximizing Living Roots Maximizing Soil Cover 	Many practices are related depending on purpose and placement, examples: Conservation Cover (Code 327), Filter Strip (Code 393), Field Border (Code 386), etc.
Measuring and Monitoring Progress:	Measurements based on LTAR Performance Indicator Framework		Soil Health Testing (CEMA 216)

*Depending on installation specifics **CPS are found at: <https://efotg.sc.egov.usda.gov/#/state/MI/documents>.
 NRCS-MI Financial Assistance Information is found at: <https://www.nrcs.usda.gov/state-offices/michigan>.

Resource Concern Key:  Soil  Water  Air  Plants  Animals  Energy

