

G3: Annual Grain: Corn-Soybean-Canola (<i>corn entry point</i>). Corn (2010) – Soybeans (2011) – Canola (2012)		
Site	KBS	Arlington
Planting	Plant Dekalb DKC52-59 in late April or early May. Variety DKC52-59 is a triple stack variety of corn Roundup Ready and Bt corn	Plant Dekalb DKC52-59 in late April or early May. Variety DKC52-59 is a triple stack variety of corn Roundup Ready and Bt corn
Cover Crop	None	None
Tillage	No-till	No-till
Harvest	Harvest corn in October or November. After grain harvest remove plant stover (*see microplots, below)	Harvest corn in October or November. After grain harvest remove plant stover (*see micro-plots, below) except in W. 6 rows.
Fertilization	Harvest (yield check) corn from the Corn Stover Retention microplots separately from main plot. Based on MSU Soil Lab MRTN recommendation (0.1 N: Corn Price Ratio) Medium Soil Productivity. 130 lb N ac ⁻¹ (146 kg N ha ⁻¹). Starter: 14 gals/A of 19-17-0 (29 lbs N acre ⁻¹ , 33 kg N ha ⁻¹) (26 lbs P acre ⁻¹ , 29 kg P ha ⁻¹) Sidedress: 33 gal/A 28% N solution (100 lbs N acre ⁻¹ , 112 kg N ha ⁻¹) Potassium (K) applied as 0-0-60 K ₂ O applied preplant: 75 lb ac ⁻¹ (84 kg ha ⁻¹) → [45 lb K ₂ O ac ⁻¹ (51 kg K ₂ O ha ⁻¹)] Apply appropriate herbicides to control annual weeds. Preemergence: Broadcast Lexar at 3 qts/A (Lexar is a premix of: Dual II Magnum (1.36 pt/A) + Callisto (5.34 oz/A) + atrazine 4L (1.3 lb/A)). Postemergence: Apply Roundup at label rates as needed to control weeds.	Harvest (yield check) corn from the Corn Stover Retention micro-plots separately from main plot. Starter: 112 kg ha ⁻¹ (100 lb ac ⁻¹) of 5-14-42 Side-dress: 63 gal/A 28% N solution (190 lbs N acre ⁻¹ , 213 kg N ha ⁻¹), application rate based on silage usage since stover is being removed. To be modified based on pre-plant NO₃-test. No P additions necessary Potassium (K) applied as 0-0-60 K ₂ O applied pre-plant to selected plots base on UWEX recommendations. Burn-down: Roundup + 2,4-D Ester at label rates Pre-emergence: Dual II Magnum at 1.74 l ha ⁻¹ (1.5 pts/ac) possibly Post-emergence: 2,4-D ester 0.61 l ha⁻¹ (8oz ac⁻¹) as needed to control canola weeds.
Microplots	Corn Stover Retention. For corn year only (this year - 2010) same as G1 stover retention microplot. Harvest (yield check) corn from the Corn Stover Retention microplots separately from main plot.	Post-emergence: Roundup + Laudis at label rates as needed Corn Stover Retention. For corn year only (this year - 2010) same as G1 stover retention microplot. Harvest (yield check) corn from the Corn Stover Retention microplots separately from main plot. Compare yield to opposite plot edge.