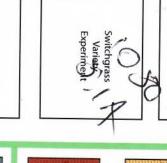
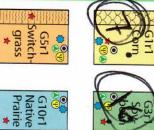
Jest H 1-8 @ 2-72 mph 1200 Ken 11-12624 KBS GLBRC Intensive Field Site (2011) F-18 135#/A Ø 64r3





Productivity Experiment























































































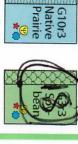






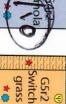








grass *



Grass

G7r3

₩ E

Block 3











G10r4 Native prairie









Weed Control Experiment

15m

40m 131h

Miscanthus/Switchgrass EBI Experiment











































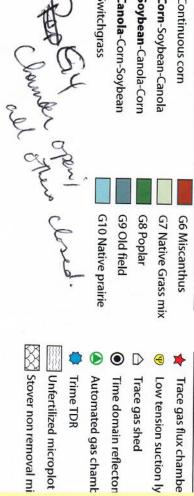


G5r5 Switch-grass

G9r5 Old-

eter





Start Cooker

G5 Switchgrass

G4 Canola-Corn-Soybean G3 Soybean-Canola-Corn G2 Corn-Soybean-Canola G1 Continuous corn Treatment Legend

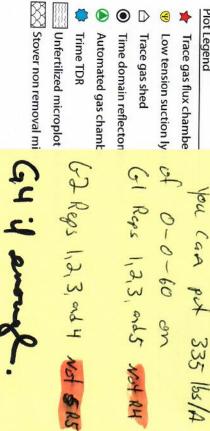
-28m

Block 4

G7r4 Grass mix

91ft





2011 KBS and Arlington GLBRC Agronomic Protocol January 11, 2011

Site	Site KBS	Site KBS Adicate
Planting	Plant Dekalb DKC52-59 in late April or early May. Variety DKC52-59 is a triple	Plant Dekalh DKC52-50 in late April or early May Votice DKC52-50 in
	stack variety of corn Roundup Ready and Bt corn	triple stack variety of corn Roundin Ready and Rt corn
Cover Crop	No cover crops used	No cover crops used
Tillage	No-till	No-till
Harvest	Harvest corn in October or November. After grain harvest remove plant stover (except not in 6 west or east rows, see microphys, helpw)	Harvest corn in October or November. After grain harvest remove plant
Fertilization	Based on MSU Soil and Plant Nutrient Laboratory 0.1 N:Corn price ratio Medium Soil Productivity	Based on UWEX BMP's for: • 0.1 N:Corn price Ratio
	 Fertilizer recommendations based on corn silage (not corn grain). Total nitrogen recommendations: 150 lb N ac⁻¹ (168 kg N ha⁻¹). 	Starter: 112 kg ha ⁻¹ (100 lb ac ⁻¹) of 5-14-42
	Starter: 14 gals/A of 19-17-0 (29 lbs N acre $^{-1}$, 33 kg N ha $^{-1}$) (26 lbs P ₂ 0 $_5$ acre $^{-1}$, 29 kg P ₂ 0 $_5$ ha $^{-1}$)	Side-dress: 54 gal/A 28% N solution (160 lbs N acre ⁻¹ , 180 kg N ha ⁻¹), application rate based on silage usage since stover is being removed. To be modified based on pre-plant NO ₃ test.
	Sidedress: 41 gal/A 28% N solution (121 lbs N acre ⁻¹ , 136 kg N ha ⁻¹). To be modified based on pre-plant NO ₃ test.	Phosphorus (P): applied pre-plant as 0-46-0 to selected plots base on UWEX recommendations.
	Potassium (K) applied as 0-0-60 K applied preplant: 335 lb ac ⁻¹ (376 kg ha ⁻¹) \Rightarrow [201 lb K ₂ O ac ⁻¹ (226 kg K ₂ O ha ⁻¹)]	Potassium (K): applied pre-plant as 0-0-60 to selected plots base on UWEX recommendations.
	Apply the K to Reps 1, 2, 3, and 5, Rep 4 does not need any K applied.	Fall Soil Sampling: 3×15 cm cores are to be taken from main plot & stover-
	Fall Soil Sampling: 3 x 15cm cores are to be taken from main plot & stover-retention micro-plot in Fall 2011	retention micro-plot in Fall 2011
weed Control	Burn down: Roundup + 2,4-D ester at labeled rates. 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 Roundum at label rates as product to control to the control of the control o	Burn-down: Roundup + 2,4-D Ester at label rates Pre-emergence: Dual II Magnum at 1.74 I ha ⁻¹ (1.5 pts/ac)
Micro-plots	Corn Stover Retention. Leave stover on west 6 rows of each plot (except east 6 rows of Block 1 at KBS due to gas chambers). Using a Kincaid plot combine harvest the middle two rows of the outer 15' (6 rows) on both the East and West of each plot for use as stover retention and stover removal micro-plots.	Post-emergence: Roundup + Laudis at label rates as needed Corn Stover Retention. Leave stover on west 6 rows of each plot. Using a 2 row combine harvest the middle two rows of the outer 15' (6 rows) on both the East and West of each plot for use as stover retention and stover