## 2010 KBS and Arlington GLBRC Agronomic Protocol January 1, 2010

intensity grain produ	intensity grain produced for biofuel, with some portion of the stover removed for cellulosic yield.  Arlington	Arlington
Site	KBS	Dient Dekolb DKC52-50 in late April or early May Variety
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	DKC52-59 is a triple stack variety of corn Roundup Ready
	COTI	alla Di colli
Cover Crop	No cover crops used	No cover crops used
Tilland	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 microplots,	remove plant stover (*see micro-plots, below) except in W. 6
	below)	rows. Harvest (yield check) corn from the Corn Stover Retention micro-plots separately from main plot.
Fertilization	Based on MSU Soil Lab MRTN recommendation (0.1 N:Corn Price Ratio) Medium Soil Productivity. 130 lb N ac <sup>-1</sup> (146 kg N	Starter: 112 kg ha <sup>-1</sup> (100 lb ac <sup>-1</sup> ) of 5-14-42 Side-dress: 63 gal/A 28% N solution (190 lbs N acre <sup>-1</sup> , 213 kg
	Starter: 14 gals/A of 19-17-0 (29 lbs N acre <sup>-1</sup> , 33 kg N ha <sup>-1</sup> ) (26 lbs P acre <sup>-1</sup> , 29 kg P ha <sup>-1</sup> )	being removed. To be modified based on pre-plant NO <sub>3</sub> test.
	Sidedress: 33 gal/A 28% N solution (100 lbs N acre <sup>-1</sup> , 112 kg N	No P additions necessary
	ha <sup>-1</sup> ) Potassium (K) applied as 0-0-60 K <sub>2</sub> O applied preplant:	Potassium (K): applied pre-plant as 0-0-60 to selected plots base on UWEX recommendations.
Post Cotrl	Apply appropriate herbicides to control annual weeds.	Burn-down: Roundup + 2,4-D Ester at label rates
Cost Clien	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	Pre-emergence: Dual II Magnum at 1.74 l ha <sup>-1</sup> (1.5 pts/ac)
	needed to control weeds.	Post-emergence: Roundup + Laudis at label rates as needed
Microplots	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).  Money yield separately for 2 cepter rows, and quadrat sample	Corn Stover Retention. Leave stover on west or lows or each plot. Measure yield separately for 2 center rows (rows 3 and 4 from the West), and quadrat sample to determine stover
	to determine stover remaining. Calculate % recovery (wt of machine harvested stover / [wt of machine harvested stover + weight of stover remaining on soil]).	remaining. Compare filicio-piot yield to low so and a filority free to low so an action and action so an action so an action so an action so an action and action action action.