

Friday, October 22, 2010
 Corn Stover Harvest
 GLBRC G1 & G3

Plot ID	Bale Number	Moisture Readings (%)			Full Weight	Empty Weight	Weight Bales	Other observations
		1	2	3				
G1R1	1	22.0	33.6	24.1	8440	7460	980	% \bar{x} = 27.2
	2	26.0	36.8	20.6	8440	7460	-	
	3							
	4							
G1R2	1	27.0	26.9	23.7	8280	7320	760	% \bar{x} = 25.9
	2					7520		
	3							
	4							
G1R3	1	19.4	16.9	23.0	8200	7460	740	19.8 = % \bar{x}
	2							
	3							
	4							
G1R4	1	20.2	29.9	45.0	8240	7520	720	% \bar{x} = 31.7
	2							
	3							
	4							
G1R5	1	24.7	35.2	26.1	8180	7460	720	% \bar{x} = 28.7
	2							
	3							
	4							

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Plot ID	Bale Number	Moisture Readings (%)			Full Weight	Empty Weight	Weight Bales	Other observations
		1	2	3				
G3R1	1	30.7	23.4	20.9	8380	7460	920	% \bar{x} = 25.0
	2	14.9	33.7	26.3	8380	7460		
	3							
	4							
G3R2	1	33.3	26.8	34.4	8080	7460	620	% \bar{x} = 28.2
	2							
	3							
	4							
G3R3	1	25.9	23.6	28.4	8540	7460	1080	% \bar{x} = 24.4
	2	18.0	25.7	25.0				
	3							
	4							
G3R4	1	23.8	28.4	21.1	8080	7460	620	% \bar{x} = 24.4
	2							
	3							
	4							
G3R5	1	22.5	16.0	34.1	8280	7250	1030	% \bar{x} = 24.2
	2							
	3							
	4							

Tare truck 519 + blue trailer without passengers

2010 GLBRC Main Site Treatments G1 and G3 Corn Stover Biomass Harvest on October 22, 2010 at the Kellogg Biological Station.

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
October 22, 2010 Treatment G1 R1	0.226	8440	7460	980	24.0%	35.2%	22.4%	27.2%	0.55	1.23	71.49%	
October 22, 2010 Treatment G1 R2	0.226	8280	7520	760	27.0%	26.9%	23.7%	25.9%	0.77	1.72	57.55%	
October 22, 2010 Treatment G1 R3	0.226	8200	7460	740	19.4%	16.9%	23.0%	19.8%	0.54	1.21	67.46%	
October 22, 2010 Treatment G1 R4	0.226	8240	7520	720	20.2%	29.9%	45.0%	31.7%	0.41	0.92	75.08%	
October 22, 2010 Treatment G1 R5	0.226	8180	7460	720	24.7%	35.2%	26.1%	28.7%	0.58	1.31	61.43%	
Treatment G1	1.1	--	--	3920.0	--	--	--	26.6%	2.9	6.4	3.3	
October 22, 2010 Treatment G3 R1	0.226	8380	7460	920	22.8%	28.6%	23.6%	25.0%	0.30	0.67	74.06%	
October 22, 2010 Treatment G3 R2	0.226	8080	7460	620	33.3%	26.8%	34.4%	31.5%	0.24	0.53	79.30%	
October 22, 2010 Treatment G3 R3	0.226	8540	7460	1080	22.0%	24.7%	26.7%	24.4%	0.31	0.69	68.14%	
October 22, 2010 Treatment G3 R4	0.226	8080	7460	620	23.8%	28.4%	21.1%	24.4%	0.46	1.03	69.93%	
October 22, 2010 Treatment G3 R5	0.226	8280	7250	1030	22.5%	16.0%	34.1%	24.2%	0.54	1.21	66.00%	
Treatment G3	1.1	--	--	4270.0	--	--	--	25.5%	1.8	4.1	3.6	

Column Labels for the spreadsheet holding the yield data from the 2010 GLBRC Main Site Treatments G1 and G3 Corn Stover Biomass Harvest on October 22, 2010 at i

- Column 1 Date: Month, day and year that harvest took place. If no date is noted, the data are summary data of the actually collected data from the harvest.
- Column 2 Plot identification number. G_ refers to the treatment; R_ refers to the replication number.
- Column 3 Area of plot harvested given in acres (A). Determined by multiplying (harvested width of plot 75 feet X length of plot 131.23) / (43,560 square feet per acre).
- Column 4 Gross weight collected from plots in pounds (lbs).
- Column 5 Tare weight of vehicle used in harvest in pounds (lbs).
- Column 6 Net pounds (lbs) of corn stover biomass harvested.
- Column 7 Moisture reading sample #1 taken from baled corn stover, using a Farmmex® DHT-1 Digital Hay Tester with 32" Probe.
- Column 8 Moisture reading sample #2 taken from baled corn stover, using a Farmmex® DHT-1 Digital Hay Tester with 32" Probe.
- Column 9 Moisture reading sample #3 taken from baled corn stover, using a Farmmex® DHT-1 Digital Hay Tester with 32" Probe.
- Column 10 Average moisture reading of the three sample readings found in columns 6 - 8.
- Column 11 Residual (non-machinery harvestable) dry weight based on tons per acre (t/A): Calculations not shown on this sheet.
- Column 12 Residual (non-machinery harvestable) dry weight based on metric tonnes per hectare (Mg/ha): Calculations not shown on this sheet.
- Column 13 % Residual Recovery: Calculated by dividing machine recovered biomass from column 14 by total biomass in field at time of machine harvest (sum of column 6) and subtracting
- Column 14 Dry matter in pounds (lbs) of corn stover harvested: Determined by taking the total pounds of corn stover biomass (from column 6) and subtracting

STOVER DATA		10/22/2010	
G1	R1	466.20	384.20
	R2	700.79	590.44
	R3	656.63	496.52
	R4	715.97	509.34
	R5	561.57	453.78
G3	R1	476.22	372.02
	R2	773.40	560.47
	R3	590.67	447.01
	R4	613.07	499.70
	R5	660.15	466.21

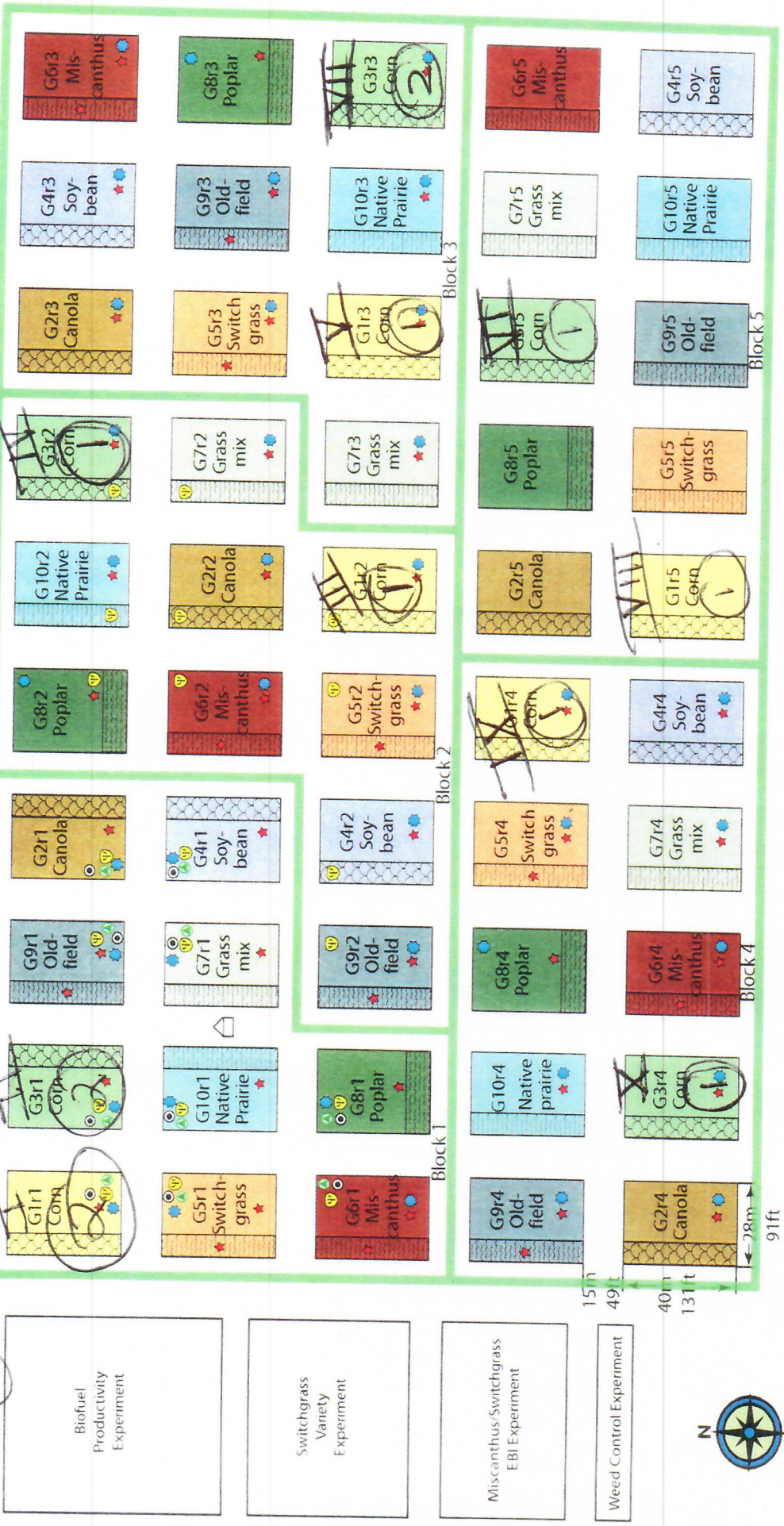
weights include bag @

harvested on 10/22/10 and placed in drier same day.

moisture saw data from a 1 bag sample collected in each plot and placed to dry in oven. Analysis not included here.

10/22/2010
 KBS GLBRC Intensive Field Site (2010)

BALES



Biofuel Productivity Experiment

Switchgrass Variety Experiment

Miscanthus/Switchgrass EBI Experiment

Weed Control Experiment



Switchgrass Nitrogen/Harvest Experiment

- Treatment Legend**
- G1 Continuous corn
 - G2 Corn-Soybean-Canola
 - G3 Soybean-Canola-Corn
 - G4 Canola-Corn-Soybean
 - G5 Switchgrass
 - G6 Miscanthus
 - G7 Native Grass mix
 - G8 Poplar
 - G9 Old field
 - G10 Native prairie
- Plot Legend**
- ★ Trace gas flux chamber
 - ▽ Low tension suction lysimeter
 - ◻ Trace gas shed
 - Time domain reflectometry (TDR)
 - ▲ Automated gas chamber
 - ★ Trime TDR
 - ◻ Unfertilized microplot (G10-fertilized)
 - ◻ Stover non removal microplot

DRAWING ORDER
 INTX