Kentucky Silage Corn Hybrid Performance Report: 2006

Table 1. Combined location performance.

Two Locations, 2006
Replicated trials at both locations.

Uniform stands at both locations. No difference among hybrids in final stands at either location.

HYBRID	FRESH	DRY	DRY	СР	ADF	NDF	TDN	NE	VALUE	VALUE
	YIELD*	MATTER	YIELD					lact		
	tons/a	%	tons/a	%	%	%			\$/Ton	\$/Acre
Asgrow RX715RR	23.0	43.7	8.1	5.9	35.1	54.5	66.4	0.660	38.15	877.95
Asgrow RX940RR	22.1	30.1	7.7	6.6	42.4	63.9	63.3	0.601	36.07	782.15
Caverndale CF1015RR	24.2	34.3	8.5	6.7	30.3	48.5	68.5	0.698	40.84	990.15
Caverndale CR1015A RR	23.2	29.7	8.1	6.7	38.1	58.3	65.1	0.636	42.18	972.45
Crows 5176RR	21.4	32.8	7.5	6.3	38.2	58.8	65.1	0.634	37.32	800.85
Crows 8S214RR	24.5	35.8	8.6	6.8	29.3	47.1	68.9	0.706	41.34	1017.30
Dekalb DKC 69-68RR	25.8	41.5	9.0	6.6	30.4	49.2	68.4	0.698	40.72	1051.75
Dekalb DKC64-77	23.8	39.6	8.4	7.4	26.5	43.5	70.0	0.728	42.98	1022.25
Garst 8225RR	28.6	41.5	10.0	7.4	22.9	38.3	71.6	0.757	44.40	1270.10
Garst 8248RR	23.9	36.7	8.3	6.6	34.4	53.1	66.7	0.665	38.95	943.10
NK Syngenta N78-D6RR	20.9	39.0	7.3	7.0	41.0	60.7	63.9	0.612	36.85	769.25
NK Syngenta N91-J1	25.6	30.8	9.0	7.1	36.4	56.4	65.9	0.649	38.70	987.75
Pioneer 31G71RR	25.0	32.8	8.7	7.7	38.6	61.5	64.9	0.631	38.41	958.00
Pioneer 33M57RR/BT	22.3	31.3	7.8	7.1	34.9	55.0	66.5	0.661	39.33	878.95
Southern States 804RR	18.3	31.7	6.4	6.2	43.5	66.3	62.9	0.593	35.16	643.20
Southern States 842RR	25.4	39.4	8.9	7.2	27.0	43.9	69.9	0.724	42.49	1084.60
Wyfells W8721RR	21.0	33.7	7.3	5.9	43.2	66.4	63.0	0.595	35.00	735.00
Wyffels W7300RR	17.3	31.7	6.1	6.8	40.3	62.7	64.2	0.618	36.89	637.75
LSD (0.10)	2.3	5.2		1.6	ns	15.2	4.6	0.086	ns	205.46
CV	10.4									
Average	23.1	35.3	8.1	6.8	35.1	54.9	66.4	0.659	39.21	912.36
Maximum	28.6	43.7	10.0	7.7	43.5	66.4	71.6	0.757	44.40	1270.10
Minimum	17.3	29.7	6.1	5.9	22.9	38.3	62.9	0.593	35.00	637.75

*Fresh yields adjusted to 35% dry matter. Dry matter column is measured dry matter at harvest.

Values in bold with gray box are numerically highest value for that column. Other bold values in the same column are within one LSD of highest yield.

Comments about the 2006 growing season.

Corn was planted in late May at each location, which is later than desired. The wet weather during the spring prevented timely planting. Many farmers near these two locations had difficulty planting corn in a timely fashion. Final stand counts at both locations were higher than targeted seeding rates, indicating 1) excellent conditions for germination and 2) seed rate charts may be slightly underestimating final seed drop. June was slightly drier than normal, but July, August and September all had ample to excessive rainfall. Final yields averaged 8.1 dry tons per acre, which are good. Whole plant percent dry matter was different across hybrids, indicating differences in plant maturity at harvest. However, dry matter yields did not correlate with hybrid maturity, implying that some early hybrids may do as well as later-maturing hybrids for silage yields.

Table 1 above is the combined hybrid performance across two locations.

Table 2 on page two includes hybrid performance for each location. More information regarding the structure of the hybrid performance test and a key for abbreviations in the tables are on page 3.

Table 2. Individual location performance.

Adair County, 2006	Previous Crop: Corn		Planted: May 30, 2006				Target Seed Rate: 27,500 seeds/a			
Randomized Trial	Tillage: No-Till		Harvested: Sept. 22, 2006				Actual Stand: 28,150 plants/a			
3 replications	Cooperato	r: Greg Burton	Soil Type: Bewleyville Silt Loam			· •				
HYBRID	FRESH	DRY	DRY	CP	ADF	NDF	TDN	NE	VALUE	VALUE
	YIELD*	MATTER	YIELD					lact		
	tons/a	%	tons/a	%	%	%			\$/Ton	\$/Acre
Asgrow RX715RR	23.7	43.0	8.3	5.4	31.4	49.5	68.0	0.689	39.22	929.60
Asgrow RX940RR	25.5	34.5	8.9	4.4	49.9	72.5	60.1	0.541	31.06	792.10
Caverndale CF1015RR	23.6	34.9	8.3	6.9	30.1	47.9	68.5	0.699	41.15	971.10
Caverndale CR1015A RR	20.8	29.0	7.3	5.9	43.3	63.5	62.9	0.594	43.87	912.50
Crows 5176RR	23.0	36.0	8.1	6.3	35.1	53.5	66.4	0.659	38.74	891.00
Crows 8S214RR	23.1	35.8	8.1	6.3	32.5	51.5	67.5	0.680	39.62	915.30
Dekalb DKC 69-68RR	24.4	37.6	8.5	5.8	34.6	54.3	66.6	0.664	38.32	935.00
Dekalb DKC64-77	24.5	43.6	8.6	6.0	26.1	42.9	70.3	0 732	42 12	1032.00
Garst 8225RR	28.3	41.4	9.9	71	23.0	37.4	71.5	0.756	44.07	1247 40
Garst 8248RR	26.8	37.6	9.4	7.1	26.7	41.6	70.0	0.730	43.07	1156 20
NK Syngenta N78-D6RR	20.0	39.2	7.0	59	20.7	56.4	64.5	0.727	36.35	821.60
NK Syngonta N01 11	22.0 26 5	20.7	0.2	65	20.7	50.4 50.0	65.1	0.022	30.33	021.00
Diopoor 31C71DD	20.5	27.7	7.J Q 5	0.5	30.2 37 0	56.3	65.6	0.034	200	035.00
Diopoor 22ME7DD/DT	24.1	31.0	0.J 7 7	1.5	37.0 4E 0	40.0	41.0	0.044	20.0	933.00 754.60
PIULIEEL 33IVID/RR/BT	21.9	30.0	1.1	0.4	45.9	09.8	01.8	0.573	34.40	/54.60
Southern States 804RR	18.4	31.8	0.4	5.5	45.9	/1.9	01.8	0.573	33.39	014.40
Southern States 842RR	23.9	37.4	8.4	6.5	30.9	49.1	68.2	0.693	40.41	966.00
Wyfelis W8/21RR	21.9	33.9	1.1	5.2	41.4	64.6	63.7	0.609	35.16	//0.00
Wyffels W/300RR	17.7	34.4	6.2	6.1	41.6	65.3	63.7	0.607	35.73	632.40
LSD (0.10)	3.3									
CV	10.3									
Average	23.4	35.7	8.2	6.2	36.3	55.9	65.9	0.650	38.51	903.96
Boyle County, 2006	Previous C	crop: Soybean	S	Plant	ted: May 2	24, 2006		Target See	ed Rate: 27,	500 seeds/a
Boyle County, 2006 Randomized Trial	Previous C Tillage: Mi	Crop: Soybean nimum Till	S	Plant Harv	ied: May 2 ested: Sej	24, 2006 ot. 27, 2006)	Target See Actual Star	ed Rate: 27,4 nd: 27,782 p	500 seeds/a Jants/a
Boyle County, 2006 Randomized Trial 3 replications	Previous C Tillage: Mir Cooperato	Crop: Soybean nimum Till r: Clyde Jacks	s on	Plant Harv Soil [−]	ied: May 2 ested: Sej Type: Noli	24, 2006 ot. 27, 2006 n Silt Loam)	Target See Actual Star	ed Rate: 27,! nd: 27,782 p	500 seeds/a lants/a
Boyle County, 2006 Randomized Trial 3 replications HYBRID	Previous C Tillage: Mil Cooperato FRESH	crop: Soybean nimum Till r: Clyde Jacks DRY	s on DRY	Plant Harv Soil	ted: May 2 ested: Sej Type: Noli ADF	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> NDF	TDN	Target See Actual Star NE	ed Rate: 27, nd: 27,782 p VALUE	500 seeds/a blants/a VALUE
Boyle County, 2006 Randomized Trial 3 replications HYBRID	Previous C Tillage: Mil Cooperato FRESH YIELD*	Crop: Soybean nimum Till r: Clyde Jacks DRY MATTER	s on DRY YIELD	Plant Harv Soil ⁻ CP	ted: May 2 ested: Sej <u>Type: Noli</u> ADF	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> NDF	TDN	Target See Actual Star NE lact	ed Rate: 27, nd: 27,782 p VALUE	500 seeds/a blants/a VALUE
Boyle County, 2006 Randomized Trial 3 replications HYBRID	Previous C Tillage: Mil <u>Cooperato</u> FRESH YIELD* tons/a	crop: Soybean nimum Till <u>r: Clyde Jacks</u> DRY MATTER %	s DRY YIELD tons/a	Plant Harv Soil CP %	ted: May 2 ested: Se <u>Type: Noli</u> ADF %	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> NDF %	TDN	Target See Actual Star NE Iact	ed Rate: 27,! nd: 27,782 p VALUE \$/Ton	500 seeds/a plants/a VALUE \$/Acre
Boyle County, 2006 Randomized Trial 3 replications HYBRID Asgrow RX715RR	Previous C Tillage: Mil Cooperato FRESH YIELD* tons/a 22.3	crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5	on DRY YIELD tons/a 7.8	Plant Harv Soil CP %	ted: May 2 ested: Sep Type: Noli ADF % 38.8	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> NDF <u>%</u> 59.4	0 TDN 64.9	Target See Actual Star NE lact 0.630	ed Rate: 27,4 nd: 27,782 p VALUE \$/Ton 37.08	500 seeds/a alants/a VALUE \$/Acre 826.30
Boyle County, 2006 Randomized Trial 3 replications HYBRID Asgrow RX715RR Asgrow RX940RR	Previous C Tillage: Mil Cooperato FRESH YIELD* tons/a 22.3 18.8	crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6	s DRY YIELD tons/a 7.8 6.6	Plant Harv Soil ⁻ CP % 6.4 8.9	ted: May 2 ested: Se Type: Noli ADF % 38.8 34.9	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> NDF <u>%</u> 59.4 55.3	5 TDN 64.9 66.5	Target See Actual Star NE lact 0.630 0.661	ed Rate: 27,7 nd: 27,782 p VALUE \$/Ton 37.08 41.07	500 seeds/a alants/a VALUE \$/Acre 826.30 772.20
Boyle County, 2006 Randomized Trial 3 replications HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR	Previous C Tillage: Mil Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9	crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6	on DRY YIELD tons/a 7.8 6.6 8.7	Plant Harv Soil ⁻ CP % 6.4 8.9 6.5	ted: May 2 ested: Se Type: Noli ADF % 38.8 34.9 30.5	24, 2006 ot. 27, 2006 n Silt Loam NDF % 59.4 55.3 49.2	TDN 64.9 66.5 68.4	Target See Actual Star NE lact 0.630 0.661 0.696	ed Rate: 27,7 nd: 27,782 p VALUE \$/Ton 37.08 41.07 40.53	500 seeds/a alants/a VALUE \$/Acre 826.30 772.20 1009.20
Boyle County, 2006 Randomized Trial 3 replications HYBRID Asgrow RX715RR Asgrow RX715RR Caverndale CF1015RR Caverndale CR1015A RR	Previous C Tillage: Mil Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5	crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6 30.5	s DRY YIELD tons/a 7.8 6.6 8.7 8.9	Plant Harv Soil - CP % 6.4 8.9 6.5 7.5	ted: May 2 ested: Seq Type: Noli ADF % 38.8 34.9 30.5 32.8	24, 2006 ot. 27, 2006 n Silt Loam NDF % 59.4 55.3 49.2 53.1	TDN 64.9 66.5 68.4 67.4	Target See Actual Star NE lact 0.630 0.661 0.696 0.677	ed Rate: 27,782 p vALUE \$/Ton 37.08 41.07 40.53 40.48	500 seeds/a alants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40
Boyle County, 2006 Randomized Trial 3 replications HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CR1015A RR Crows 5176RR	Previous C Tillage: Min Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8	crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6 30.5 29.7	s DRY YIELD tons/a 7.8 6.6 8.7 8.9 6.9	Plant Harv Soil CP 6.4 8.9 6.5 7.5 6.3	ted: May 2 ested: Sej Type: Noli ADF % 38.8 34.9 30.5 32.8 41 4	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> NDF % 59.4 55.3 49.2 53.1 64.1	TDN 64.9 66.5 68.4 67.4 63.8	Target See Actual Star NE lact 0.630 0.661 0.696 0.677 0.609	ed Rate: 27,7 nd: 27,782 p VALUE \$/Ton 37.08 41.07 40.53 40.48 35.89	500 seeds/a blants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70
Boyle County, 2006 Randomized Trial <u>3 replications</u> HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CR1015A RR Crows 5176RR Crows 85214RR	Previous C Tillage: Min Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8 26.0	crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6 30.5 29.7 35.8	on DRY YIELD tons/a 7.8 6.6 8.7 8.9 6.9 9.1	Plant Harv Soil CP % 6.4 8.9 6.5 7.5 6.3 7.3	ted: May 2 ested: Sep Type: Noli ADF % 38.8 34.9 30.5 32.8 41.4 26.2	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> NDF % 59.4 55.3 49.2 53.1 64.1 42.6	TDN 64.9 66.5 68.4 67.4 63.8 70.2	Target See Actual Star NE lact 0.630 0.661 0.696 0.677 0.609 0.731	ed Rate: 27,782 p water 27,782 p value \$/Ton 37.08 41.07 40.53 40.48 35.89 43.05	500 seeds/a blants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30
Boyle County, 2006 Randomized Trial <u>3 replications</u> HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CF1015A RR Crows 5176RR Crows 8S214RR Dekalb DKC 69-68RR	Previous C Tillage: Mii Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8 26.0 27 1	crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6 30.5 29.7 35.8 45.4	on DRY YIELD tons/a 7.8 6.6 8.7 8.9 6.9 9.1 9.5	Plant Harv. Soil 7 CP 6.4 8.9 6.5 7.5 6.3 7.3 7.3 7.4	ted: May 2 ested: Sep Type: Noli ADF % 38.8 34.9 30.5 32.8 41.4 26.2 26.2	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> <u>NDF</u> <u>%</u> 59.4 55.3 49.2 53.1 64.1 42.6 44.1	TDN 64.9 66.5 68.4 67.4 63.8 70.2 70.2	Target See Actual Star Iact 0.630 0.661 0.696 0.677 0.609 0.731 0.731	ed Rate: 27,782 p value value \$/Ton 37.08 41.07 40.53 40.48 35.89 43.05 43.12	500 seeds/a blants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30 1168.50
Boyle County, 2006 Randomized Trial <u>3 replications</u> HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CF1015A RR Crows 5176RR Crows 85214RR Dekalb DKC 69-68RR Dekalb DKC 64-77	Previous C Tillage: Mii Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8 26.0 27.1 23.1	Crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6 30.5 29.7 35.8 45.4 35.7	s on VIELD tons/a 7.8 6.6 8.7 8.9 6.9 9.1 9.5 8.1	Plant Harv. Soil - CP % 6.4 8.9 6.5 7.5 6.3 7.5 6.3 7.3 7.4 8.6	ted: May 2 ested: Sep Type: Noli ADF % 38.8 34.9 30.5 32.8 41.4 26.2 26.2 27.0	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> <u>NDF</u> <u>%</u> 59.4 55.3 49.2 53.1 64.1 42.6 44.1 44.1	TDN 64.9 66.5 68.4 67.4 63.8 70.2 70.2 69.8	Target See Actual Star NE lact 0.630 0.661 0.696 0.677 0.609 0.731 0.731 0.724	ed Rate: 27,782 p value value \$/Ton 37.08 41.07 40.53 40.48 35.89 43.05 43.12 43.83	500 seeds/a blants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30 1168.50 1012.50
Boyle County, 2006 Randomized Trial <u>3 replications</u> HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CF1015A RR Crows 5176RR Crows 85214RR Dekalb DKC 69-68RR Dekalb DKC 64-77 Garst 8225RP	Previous C Tillage: Mii Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8 26.0 27.1 23.1	Crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6 30.5 29.7 35.8 45.4 35.7 41.7	s on DRY YIELD tons/a 7.8 6.6 8.7 8.9 6.9 9.1 9.5 8.1 10 1	Plant Harv. Soil 7 CP 6.4 8.9 6.5 7.5 6.3 7.5 6.3 7.3 7.4 8.6 7.8	ted: May 2 ested: Sep Type: Noli ADF % 38.8 34.9 30.5 32.8 41.4 26.2 26.2 27.0 22.7	24, 2006 ot. 27, 2006 n Silt Loam NDF % 59.4 55.3 49.2 53.1 64.1 42.6 44.1 44.1 39.1	TDN 64.9 66.5 68.4 67.4 63.8 70.2 70.2 69.8 71.7	Target See Actual Star Iact 0.630 0.661 0.696 0.677 0.609 0.731 0.731 0.724 0.758	ed Rate: 27,782 p value value */Ton 37.08 41.07 40.53 40.48 35.89 43.05 43.12 43.83 44.73	500 seeds/a blants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30 1168.50 1012.50 1292 80
Boyle County, 2006 Randomized Trial <u>3 replications</u> HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CF1015A RR Crows 5176RR Crows 5176RR Crows 85214RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 64-77 Garst 8225RR Caret 8248RP	Previous C Tillage: Mii Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8 26.0 27.1 23.1 28.9 21.0	Crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6 30.5 29.7 35.8 45.4 35.7 41.7	s on DRY YIELD tons/a 7.8 6.6 8.7 8.9 6.9 9.1 9.5 8.1 10.1 7.3	Plant Harv. Soil 7 CP % 6.4 8.9 6.5 7.5 6.3 7.5 6.3 7.3 7.4 8.6 7.8 5.5	ted: May 2 ested: Sep Type: Noli ADF % 38.8 34.9 30.5 32.8 41.4 26.2 26.2 27.0 22.7 42.2	24, 2006 ot. 27, 2006 n Silt Loam NDF % 59.4 55.3 49.2 53.1 64.1 42.6 44.1 44.1 39.1 64.5	TDN 64.9 66.5 68.4 67.4 63.8 70.2 70.2 69.8 71.7 63.4	Target See Actual Star lact 0.630 0.661 0.696 0.677 0.609 0.731 0.731 0.724 0.758 0.602	ed Rate: 27,782 p value */Ton 37.08 41.07 40.53 40.48 35.89 43.05 43.12 43.83 44.73 44.73	500 seeds/a blants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30 1168.50 1012.50 1292.80 730.00
Boyle County, 2006 Randomized Trial 3 replications HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CR1015A RR Crows 5176RR Crows 5176RR Crows 8S214RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 64-77 Garst 8225RR Garst 8248RR	Previous C Tillage: Min Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8 26.0 27.1 23.1 28.9 21.0 19.2	Crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6 30.5 29.7 35.8 45.4 35.7 41.7 35.8 28.7	s on DRY YIELD tons/a 7.8 6.6 8.7 8.9 6.9 9.1 9.5 8.1 10.1 7.3 6.7	Plant Harv. Soil - CP % 6.4 8.9 6.5 7.5 6.3 7.5 6.3 7.3 7.4 8.6 7.8 5.5 8.2	ted: May 2 ested: Sep Type: Noli ADF % 38.8 34.9 30.5 32.8 41.4 26.2 26.2 27.0 22.7 42.2 42.2	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> <u>NDF</u> <u>%</u> 59.4 55.3 49.2 53.1 64.1 42.6 44.1 42.6 44.1 39.1 64.5 65 0	TDN 64.9 66.5 68.4 67.4 63.8 70.2 70.2 69.8 71.7 63.4 62.4	Target See Actual Star NE lact 0.630 0.661 0.696 0.677 0.609 0.731 0.731 0.724 0.758 0.602 0.602	ed Rate: 27,782 p value value */Ton 37.08 41.07 40.53 40.48 35.89 43.05 43.12 43.83 44.73 34.76 27.7 24	500 seeds/a alants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30 1168.50 1012.50 1292.80 730.00 716.00
Boyle County, 2006 Randomized Trial 3 replications HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CR1015A RR Crows 5176RR Crows 5176RR Crows 8S214RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 64-77 Garst 8225RR Garst 8248RR NK Syngenta N78-D6RR	Previous C Tillage: Min Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8 26.0 27.1 23.1 28.9 21.0 19.2 24.6	Crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6 30.5 29.7 35.8 45.4 35.7 41.7 35.8 38.7 21.0	s on DRY YIELD tons/a 7.8 6.6 8.7 8.9 6.9 9.1 9.5 8.1 10.1 7.3 6.7 8.4	Plant Harv Soil 7 CP % 6.4 8.9 6.5 7.5 6.3 7.5 6.3 7.5 6.3 7.3 7.4 8.6 7.8 5.5 8.2 7.4	ted: May 2 ested: Sep Type: Noli ADF % 38.8 34.9 30.5 32.8 41.4 26.2 26.2 27.0 22.7 42.2 42.3 24 5	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> <u>NDF</u> <u>%</u> 59.4 55.3 49.2 53.1 64.1 42.6 44.1 44.1 39.1 64.5 65.0 52.0	TDN 64.9 66.5 68.4 67.4 63.8 70.2 70.2 69.8 71.7 63.4 63.4	Target See Actual Star NE lact 0.630 0.661 0.696 0.677 0.609 0.731 0.731 0.724 0.758 0.602 0.602 0.602	ed Rate: 27,782 p Md: 27,782 p VALUE \$/Ton 37.08 41.07 40.53 40.48 35.89 43.05 43.12 43.83 44.73 34.76 37.34 20.95	500 seeds/a alants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30 1168.50 1012.50 1292.80 730.00 716.90 0290.40
Boyle County, 2006 Randomized Trial 3 replications HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CF1015A RR Crows 5176RR Crows 5176RR Crows 8S214RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 64-77 Garst 8225RR Garst 8248RR NK Syngenta N78-D6RR NK Syngenta N91-J1	Previous C Tillage: Min Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8 26.0 27.1 23.1 28.9 21.0 19.2 24.6 25.5	Crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6 30.5 29.7 35.8 45.4 35.7 41.7 35.8 38.7 31.9 24.0	s on VIELD tons/a 7.8 6.6 8.7 8.9 6.9 9.1 9.5 8.1 10.1 7.3 6.7 8.6 0.0	Plant Harv Soil ⁻ CP % 6.4 8.9 6.5 7.5 6.3 7.5 6.3 7.3 7.4 8.6 7.8 5.5 8.2 7.6 2 7.6	ted: May 2 ested: Sep <u>Type: Noli</u> ADF % 38.8 34.9 30.5 32.8 41.4 26.2 26.2 27.0 22.7 42.2 42.3 34.5 40.2	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> <u>NDF</u> <u>%</u> 59.4 55.3 49.2 53.1 64.1 42.6 44.1 44.1 39.1 64.5 65.0 53.9 44.7	TDN 64.9 66.5 68.4 67.4 63.8 70.2 70.2 69.8 71.7 63.4 63.4 63.4 64.6	Target See Actual Star NE lact 0.630 0.661 0.696 0.677 0.609 0.731 0.731 0.724 0.758 0.602 0.602 0.664	ed Rate: 27,782 p VALUE \$/Ton 37.08 41.07 40.53 40.48 35.89 43.05 43.12 43.83 44.73 34.76 37.34 39.85 29.92	500 seeds/a alants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30 1168.50 1012.50 1292.80 730.00 716.90 980.40 980.40 980.40
Boyle County, 2006 Randomized Trial 3 replications HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CF1015A RR Crows 5176RR Crows 5176RR Crows 8S214RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 64-77 Garst 8225RR Garst 8248RR NK Syngenta N78-D6RR NK Syngenta N91-J1 Pioneer 31071RR	Previous C Tillage: Min Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8 26.0 27.1 23.1 28.9 21.0 19.2 24.6 25.8 27.8	Crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6 30.5 29.7 35.8 45.4 35.7 41.7 35.8 38.7 31.9 34.0	s on DRY YIELD tons/a 7.8 6.6 8.7 8.9 6.9 9.1 9.5 8.1 10.1 7.3 6.7 8.6 9.0 7.2	Plant Harv Soil - CP % 6.4 8.9 6.5 7.5 6.3 7.3 7.4 8.6 7.8 5.5 8.2 7.6 8.2 7.6 8.2	ted: May 2 ested: Sep <u>Type: Noli</u> ADF % 38.8 34.9 30.5 32.8 41.4 26.2 27.0 22.7 42.2 42.3 34.5 40.3	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> <u>NDF</u> <u>%</u> 59.4 55.3 49.2 53.1 64.1 42.6 44.1 44.1 39.1 64.5 65.0 53.9 66.7	TDN 64.9 66.5 68.4 67.4 63.8 70.2 70.2 69.8 71.7 63.4 63.4 63.4 66.6 64.2	Target See Actual Star NE lact 0.630 0.661 0.696 0.677 0.609 0.731 0.731 0.724 0.758 0.602 0.602 0.662 0.664 0.618	ed Rate: 27,782 p VALUE \$/Ton 37.08 41.07 40.53 40.48 35.89 43.05 43.12 43.83 44.73 34.76 37.34 39.85 38.02 44.23 44.23 44.73	500 seeds/a alants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30 1168.50 1012.50 1292.80 730.00 716.90 980.40 981.00 1202.20
Boyle County, 2006 Randomized Trial 3 replications HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CR1015A RR Crows 5176RR Crows 5176RR Crows 8S214RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 64-77 Garst 8225RR Garst 8248RR NK Syngenta N78-D6RR NK Syngenta N78-D6RR NK Syngenta N91-J1 Pioneer 31G71RR Pioneer 33M57RR/BT	Previous C Tillage: Min Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8 26.0 27.1 23.1 28.9 21.0 19.2 24.6 25.8 22.7	Crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6 30.5 29.7 35.8 45.4 35.7 41.7 35.8 38.7 31.9 34.0 31.9	s on DRY YIELD tons/a 7.8 6.6 8.7 8.9 6.9 9.1 9.5 8.1 10.1 7.3 6.7 8.6 9.0 7.9 7.9	Plant Harv Soil 7 CP % 6.4 8.9 6.5 7.5 6.3 7.3 7.4 8.6 7.3 7.4 8.6 7.8 5.5 8.2 7.6 8.2 7.6 8.2 7.9	ted: May 2 ested: Sep Type: Noli ADF % 38.8 34.9 30.5 32.8 41.4 26.2 26.2 27.0 22.7 42.2 42.3 34.5 40.3 23.9	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> <u>NDF</u> <u>%</u> 59.4 55.3 49.2 53.1 64.1 42.6 44.1 44.1 39.1 64.5 65.0 53.9 66.7 40.2	64.9 66.5 68.4 67.4 63.8 70.2 69.8 71.7 63.4 63.4 63.4 63.4 64.9	Target See Actual Star NE lact 0.630 0.661 0.696 0.677 0.609 0.731 0.731 0.724 0.758 0.602 0.602 0.662 0.664 0.618 0.749	ed Rate: 27,782 p value valu	500 seeds/a alants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30 1168.50 1012.50 1292.80 730.00 716.90 980.40 981.00 1003.30 (03.30)
Boyle County, 2006 Randomized Trial 3 replications HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CR1015A RR Crows 5176RR Crows 5176RR Crows 8S214RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 64-77 Garst 8225RR Garst 8248RR NK Syngenta N78-D6RR NK Syngenta N78-D6RR NK Syngenta N91-J1 Pioneer 31G71RR Pioneer 31G71RR Pioneer 33M57RR/BT Southern States 804RR	Previous C Tillage: Min Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8 26.0 27.1 23.1 28.9 21.0 19.2 24.6 25.8 22.7 18.2	Crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6 30.5 29.7 35.8 45.4 35.7 41.7 35.8 38.7 31.9 34.0 31.9 31.5	s on DRY YIELD tons/a 7.8 6.6 8.7 8.9 6.9 9.1 9.5 8.1 10.1 7.3 6.7 8.6 9.0 7.9 6.4 5.5 8.5 9.0 7.9 6.4	Plant Harv Soil - CP % 6.4 8.9 6.5 7.5 6.3 7.3 7.4 8.6 7.3 7.4 8.6 7.8 5.5 8.2 7.6 8.2 7.6 8.2 7.9 6.9	ted: May 2 ested: Sep Type: Noli ADF % 38.8 34.9 30.5 32.8 41.4 26.2 26.2 27.0 22.7 42.2 42.3 34.5 40.3 23.9 41.0	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> NDF % 59.4 55.3 49.2 53.1 64.1 42.6 44.1 44.1 39.1 64.5 65.0 53.9 66.7 40.2 60.6	64.9 66.5 68.4 67.4 63.8 70.2 69.8 71.7 63.4 66.6 64.9	Target See Actual Star NE lact 0.630 0.661 0.696 0.677 0.609 0.731 0.731 0.724 0.758 0.602 0.602 0.662 0.664 0.618 0.749 0.612	ed Rate: 27,782 p value valu	500 seeds/a alants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30 1168.50 1012.50 1292.80 730.00 716.90 980.40 981.00 1003.30 672.00
Boyle County, 2006 Randomized Trial 3 replications HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CF1015A RR Crows 5176RR Crows 5176RR Crows 8S214RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 64-77 Garst 8225RR Garst 8248RR NK Syngenta N78-D6RR NK Syngenta N91-J1 Pioneer 31G71RR Pioneer 33M57RR/BT Southern States 804RR Southern States 842RR	Previous C Tillage: Min Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8 26.0 27.1 23.1 28.9 21.0 19.2 24.6 25.8 22.7 18.2 22.7 18.2 27.0	Crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6 30.5 29.7 35.8 45.4 35.7 41.7 35.8 38.7 31.9 34.0 31.9 31.5 41.4	s on DRY YIELD tons/a 7.8 6.6 8.7 8.9 6.9 9.1 9.5 8.1 10.1 7.3 6.7 8.6 9.0 7.9 6.4 9.4 9.4	Plant Harv Soil - CP % 6.4 8.9 6.5 7.5 6.3 7.5 6.3 7.3 7.4 8.6 7.8 5.5 8.2 7.6 8.2 7.9 6.9 7.9	ted: May 2 ested: Sep <u>Type: Noli</u> ADF % 38.8 34.9 30.5 32.8 41.4 26.2 27.0 22.7 42.2 42.3 34.5 40.3 23.9 41.0 23.1	24, 2006 ot. 27, 2006 <u>n Silt Loam</u> <u>NDF</u> <u>%</u> 59.4 55.3 49.2 53.1 64.1 42.6 44.1 44.1 39.1 64.5 65.0 53.9 66.7 40.2 60.6 38.8	64.9 66.5 68.4 67.4 63.8 70.2 69.8 71.7 63.4 63.4 66.6 64.2 71.2 63.9 71.5 <th< td=""><td>Target See Actual Star NE lact 0.630 0.661 0.696 0.677 0.609 0.731 0.731 0.724 0.758 0.602 0.602 0.662 0.664 0.618 0.749 0.612 0.755</td><td>ed Rate: 27,782 p VALUE \$/Ton 37.08 41.07 40.53 40.48 35.89 43.05 43.05 43.12 43.83 44.73 34.76 37.34 39.85 38.02 44.20 36.92 44.56</td><td>500 seeds/a alants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30 1168.50 1012.50 1292.80 730.00 716.90 980.40 981.00 1003.30 672.00 1203.20</td></th<>	Target See Actual Star NE lact 0.630 0.661 0.696 0.677 0.609 0.731 0.731 0.724 0.758 0.602 0.602 0.662 0.664 0.618 0.749 0.612 0.755	ed Rate: 27,782 p VALUE \$/Ton 37.08 41.07 40.53 40.48 35.89 43.05 43.05 43.12 43.83 44.73 34.76 37.34 39.85 38.02 44.20 36.92 44.56	500 seeds/a alants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30 1168.50 1012.50 1292.80 730.00 716.90 980.40 981.00 1003.30 672.00 1203.20
Boyle County, 2006 Randomized Trial 3 replications HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CR1015A RR Crows 5176RR Crows 5176RR Crows 8S214RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 64-77 Garst 8225RR Garst 8248RR NK Syngenta N78-D6RR NK Syngenta N78-D6RR NK Syngenta N91-J1 Pioneer 31G71RR Pioneer 33M57RR/BT Southern States 804RR Southern States 842RR Wyfells W8721RR	Previous C Tillage: Min Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8 26.0 27.1 23.1 28.9 21.0 19.2 24.6 25.8 22.7 18.2 22.7 18.2 27.0 20.1	Crop: Soybean nimum Till r: Clyde Jacks DRY MATTER % 44.5 25.6 33.6 30.5 29.7 35.8 45.4 35.7 41.7 35.8 38.7 31.9 34.0 31.9 34.0 31.9 31.5 41.4 33.5	s on DRY YIELD tons/a 7.8 6.6 8.7 8.9 6.9 9.1 9.5 8.1 10.1 7.3 6.7 8.6 9.0 7.9 6.4 9.4 7.0	Plant Harv Soil - CP % 6.4 8.9 6.5 7.5 6.3 7.3 7.4 8.6 7.8 5.5 8.2 7.6 8.2 7.6 8.2 7.9 6.9 7.9 6.9 7.9	ted: May 2 ested: Sep Type: Noli ADF % 38.8 34.9 30.5 32.8 41.4 26.2 26.2 27.0 22.7 42.2 42.3 34.5 40.3 23.9 41.0 23.1 44.9	24, 2006 ot. 27, 2006 n Silt Loam NDF % 59.4 55.3 49.2 53.1 64.1 42.6 44.1 44.1 39.1 64.5 65.0 53.9 66.7 40.2 60.6 38.8 68.1	64.9 66.5 68.4 67.4 63.8 70.2 69.8 71.7 63.4 66.6 64.2 71.2 63.9 71.5 62.2	Target See Actual Star NE lact 0.630 0.661 0.696 0.677 0.609 0.731 0.731 0.724 0.758 0.602 0.602 0.664 0.618 0.749 0.612 0.755 0.581	ed Rate: 27,782 p where: 27,782 p VALUE \$/Ton 37.08 41.07 40.53 40.48 35.89 43.05 43.12 43.83 44.73 34.76 37.34 39.85 38.02 44.20 36.92 44.56 34.83	500 seeds/a alants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30 1168.50 1012.50 1292.80 730.00 716.90 980.40 981.00 1003.30 672.00 1203.20 700.00
Boyle County, 2006 Randomized Trial 3 replications HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CR1015A RR Crows 5176RR Crows 5176RR Crows 8S214RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 64-77 Garst 8225RR Garst 8248RR NK Syngenta N78-D6RR NK Syngenta N78-D6RR NK Syngenta N91-J1 Pioneer 31G71RR Pioneer 33M57RR/BT Southern States 804RR Southern States 842RR Wyfells W8721RR Wyffels W7300RR	Previous C Tillage: Min Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8 26.0 27.1 23.1 28.9 21.0 19.2 24.6 25.8 22.7 18.2 27.0 20.1 16.9	Crop: Soybean nimum Till r: Clyde Jacks DRY 44.5 25.6 33.6 30.5 29.7 35.8 45.4 35.7 41.7 35.8 38.7 31.9 34.0 31.9 34.0 31.9 31.5 41.4 33.5 28.9	s on DRY YIELD tons/a 7.8 6.6 8.7 8.9 6.9 9.1 9.5 8.1 10.1 7.3 6.7 8.6 9.0 7.9 6.4 9.4 7.0 5.9	Plant Harv Soil ⁻ CP % 6.4 8.9 6.5 7.5 6.3 7.3 7.4 8.6 7.8 5.5 8.2 7.6 8.2 7.9 6.9 7.9 6.7 7.6	ted: May 2 ested: Sep Type: Noli ADF % 38.8 34.9 30.5 32.8 41.4 26.2 26.2 27.0 22.7 42.2 42.3 34.5 40.3 23.9 41.0 23.1 44.9 39.0	24, 2006 ot. 27, 2006 n Silt Loam NDF % 59.4 55.3 49.2 53.1 64.1 42.6 44.1 44.1 39.1 64.5 65.0 53.9 66.7 40.2 60.6 38.8 68.1 60.0	64.9 66.5 68.4 67.4 63.8 70.2 69.8 71.7 63.4 66.6 64.2 71.2 63.9 71.5 62.2 64.7	Target See Actual Star NE lact 0.630 0.661 0.696 0.677 0.609 0.731 0.731 0.724 0.758 0.602 0.602 0.664 0.618 0.749 0.612 0.755 0.581 0.628	ed Rate: 27,782 p vALUE \$/Ton 37.08 41.07 40.53 40.48 35.89 43.05 43.12 43.83 44.73 34.76 37.34 39.85 38.02 44.20 36.92 44.56 34.83 38.05	500 seeds/a alants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30 1168.50 1012.50 1292.80 730.00 716.90 980.40 981.00 1003.30 672.00 1203.20 700.00 643.10
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Boyle County, 2006 Randomized Trial 3 replications HYBRID Asgrow RX715RR Asgrow RX940RR Caverndale CF1015RR Caverndale CR1015A RR Crows 5176RR Crows 5176RR Crows 8S214RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 69-68RR Dekalb DKC 64-77 Garst 8225RR Garst 8248RR NK Syngenta N78-D6RR NK Syngenta N78-D6RR NK Syngenta N91-J1 Pioneer 31G71RR Pioneer 33M57RR/BT Southern States 804RR Southern States 842RR Wyfells W8721RR Wyffels W7300RR LSD (0.10) CV	Previous C Tillage: Min Cooperato FRESH YIELD* tons/a 22.3 18.8 24.9 25.5 19.8 26.0 27.1 23.1 28.9 21.0 19.2 24.6 25.8 22.7 18.2 27.0 20.1 16.9 3.3 10.6	Crop: Soybean nimum Till r: Clyde Jacks DRY 44.5 25.6 33.6 30.5 29.7 35.8 45.4 35.7 41.7 35.8 38.7 31.9 34.0 31.9 34.0 31.9 34.0 31.9 34.0 31.9 34.0 31.9 34.0	s on DRY YIELD tons/a 7.8 6.6 8.7 8.9 6.9 9.1 9.5 8.1 10.1 7.3 6.7 8.6 9.0 7.9 6.4 9.4 7.0 5.9	Plant Harv Soil ⁻ CP % 6.4 8.9 6.5 7.5 6.3 7.3 7.4 8.6 7.8 5.5 8.2 7.6 8.2 7.9 6.9 7.9 6.7 7.6	ted: May 2 ested: Sep Type: Noli ADF % 38.8 34.9 30.5 32.8 41.4 26.2 26.2 27.0 22.7 42.2 42.3 34.5 40.3 23.9 41.0 23.1 44.9 39.0	24, 2006 ot. 27, 2006 n Silt Loam NDF % 59.4 55.3 49.2 53.1 64.1 42.6 44.1 44.1 39.1 64.5 65.0 53.9 66.7 40.2 60.6 38.8 68.1 60.0	64.9 66.5 68.4 67.4 63.8 70.2 69.8 71.7 63.4 66.6 64.2 71.2 63.9 71.5 62.2 64.7	Target See Actual Star NE lact 0.630 0.661 0.696 0.677 0.609 0.731 0.731 0.724 0.758 0.602 0.602 0.664 0.618 0.749 0.612 0.755 0.581 0.628	ed Rate: 27,782 p VALUE \$/Ton 37.08 41.07 40.53 40.48 35.89 43.05 43.12 43.83 44.73 34.76 37.34 39.85 38.02 44.20 36.92 44.56 34.83 38.05	500 seeds/a alants/a VALUE \$/Acre 826.30 772.20 1009.20 1032.40 710.70 1119.30 1168.50 1012.50 1292.80 730.00 716.90 980.40 981.00 1003.30 672.00 1203.20 700.00 643.10

*Fresh yields adjusted to 35% dry matter. Dry matter column is measured dry matter at harvest. Values in bold with gray box are numerically highest value for that column. Other bold values in the same column are within one LSD of highest yield.

Procedure for the Kentucky Silage Corn Hybrid Performance Report: 2006

Objective:

To provide unbiased forage yield and quality performance data for corn hybrids commonly grown for silage in Kentucky.

General Procedures:

Hybrids were evaluated for silage performance on cooperating farms in Adair County and Boyle County

Every effort has been made to conduct the tests in an unbiased manner according to accepted agronomic practices. Brands were allowed to submit up to two (2) hybrids. Each company chose which brands to submit and were allowed to submit up to two (2) hybrids for a brand. Total study size is kept to about 20 hybrids. University of Kentucky personnel assisted in planting each test, using farmer equipment. Fertility and pest management were conducted by each cooperating farmer. University of Kentucky personnel harvested, weighed, chopped and packaged corn for quality analysis. Quality analyses were conducted Custom Labs, Golden City. MO.

Fresh yield and dry yield are reported as well as crude protein, acid detergent fiber, neutral detergent fiber and total digestible nutrients. In addition, feed values per ton, per acre and the relative feed values are reported.

Hybrids at both locations were randomly planted in three replications at each farm. Each hybrid was planted in three rows, each row being 30 inches apart and about 40 ft long. Two 10-ft sections of were harvested from each plot. The entire harvested corn sample was chopped and weighed. Whole plant weights were averaged across all three replications to obtain a whole plant yield. Subsamples from each of the three replications were combined and analyzed for dry matter content as well as forage quality.

Hybrids were planted late due to the wet spring weather in 2006. However, these conditions were similar to the farmer as well. Final yields were adequate and uniform enough for comparison of hybrid performance.

Individual location data is presented in Table 2, but extreme caution must be used when interpreting the results of the single location data.

Explanation of terms:

- CP Crude Protein, protein content.
- ADF Acid Detergent Fiber
- NDF Neutral Detergent Fiber
- TDN Total Digestible Nutrients, An energy value.
- NE Lact Net Energy for Lactation, Main energy value in dairy ration balancing
- Value (\$/acre) and (\$/ton) are based on the University of Missouri "Feed Value" program which estimates feeding value based on expected animal nutritional performance. Feed costs were averaged from local mills. The cost of the cracked corn was \$3.78/bushel, and of the soybean meal 48% was \$243.00/ton.
- LSD Least Significant Difference, statistical value to determine differences. The LSD basically measures the amount of difference between hybrids caused by the experiment itself (for example, hybrid location in the field). Differences less than the LSD value are most likely due to the experiment. Differences larger than the LSD value are most likely due to hybrid performance.

Research conducted by:

Dr. Chad Lee, U.K. Extension Grain Specialist; James Dollarhide; U.K. Research Analyst; Dan Grigson, U.K. Extension Agent for Agriculture in Lincoln County; David Herbst, U.K. Extension Agent for Agriculture in Adair County; Richard Whitis, U.K. Extension Agent for Agriculture in Pulaski County; Jerry Little, U.K. Extension Agent for Agriculture in Boyle County; Tom Mills, U.K. Extension Agent for Agriculture in Rockcastle County; and Keenan Turner, Master Grazer Coordinator.

Available online at: http://www.uky.edu/Ag/GrainCrops/varietytesting.htm

Cooperative Extension Service University of Kentucky Department of Agronomy Ag Distribution Center 229 Stadium View Road Lexington KY 40546-0229

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