

TABLE 5.

ALGER & DELTA COUNTY GRAIN TRIALS (98 Day and Earlier)

ZONE 5

2004			Silage ALGER						Grain			Silage DELTA - EARLY						Grain			Silage TRIAL AVERAGE						Grain				
Brand / Hybrid	RM	TRT	%DM	GT/A	DT/A	%Std	%EM	Bu/A	Twt	%DM	GT/A	DT/A	%Std	%EM	Bu/A	Twt	%DM	GT/A	DT/A	%Std	%EM	Bu/A	Twt	%DM	GT/A	DT/A	%Std	%EM	Bu/A	Twt	
BAYSIDE Super 75	75		34.5	12.2	4.2	97	61.8	64.5	43.7	43.9	7.8	3.5	99	46.3	73.3 *	52.2	39.2	10.0	3.9	98	54.1	68.9 *	48.0								
BAYSIDE Super 80	80		33.4	15.6	5.2	100				41.5	9.8	4.1	99	49.8	55.4	47.4	37.5	12.7	4.7	99											
SPANGLER 1104	80		32.3	14.8	4.8	99				42.9	8.6	3.7	99	54.6	64.9 *	44.2	37.6	11.7	4.3	99											
SPANGLER 1303	83		30.8	16.3	5.0	100				37.8	11.8	4.5	100				34.3	14.1	4.8	100											
SPANGLER 154G	84		31.3	17.5	5.5	100				37.8	10.3	3.9	99				34.6	13.9	4.7	99											
WOLF RIVER VALLEY WRV9373	73		37.4	11.5	4.3	82	53.6	64.6	47.2	51.1	5.6	2.9	93	37.2	72.1 *	51.6	44.3	8.6	3.6	88	45.4	68.4 *	49.4								
WOLF RIVER VALLEY WRV9968	68		35.1	4.6	1.6	88	51.4	52.7	49.3	54.4	4.1	2.2	87	28.8	55.9	55.1	44.8	4.4	1.9	87	40.1	54.3	52.2								
Average			33.5	13.2	4.4	95	55.6	60.6	46.7	44.2	8.3	3.5	97	43.3	64.3	50.1	38.9	10.8	4.0	96	46.5	63.9	49.9								
BROWN EX804	80	C125	32.1	16.4	5.3	100	61.8	67.0 *	45.5	45.7	8.5	3.9	100				38.9	12.5	4.6	100											
BROWN 1811YGCB	83	C250	31.8	16.8	5.4	100				39.1	11.2	4.4	99				35.5	14.0	4.9	100											
DYNAGRO 50K70	78	P250	34.0	14.8	5.0	100	56.4	66.8 *	46.9	43.5	8.6	3.8	100	47.4	62.3	51.5	38.8	11.7	4.4	100	51.9	64.6 *	49.2								
DYNAGRO 51K74	83	P250	31.7	16.5	5.2	98				42.2	10.8	4.5	100	48.8	64.9 *	47.7	37.0	13.7	4.9	99											
Average		250	32.5	16.0	5.2	99	56.4	66.8	46.9	41.6	10.2	4.2	100	48.1	63.6	49.6	37.1	13.1	4.7	100	51.9	64.6	49.2								
NK Brand N09-A4	74	C1250	37.8	12.5	4.7	100	55.6	59.7	47.5	50.4	6.6	3.3	100	36.0	62.6	53.5	44.1	9.6	4.0	100	45.8	61.2	50.5								
NK Brand N12-G3	77	C1250	36.5	14.0	5.1	90				51.7	5.8	3.0	81	43.4	62.7	51.0	44.1	9.9	4.1	85											
NK BRAND N16-N7	81	C1250	37.9	14.5	5.5	100	54.8	71.6 *	48.4	47.5	6.9	3.3	98				42.7	10.7	4.4	99											
PIONEER 37A91	96	P1250	31.7	17.6	5.5	100				39.3	13.2	5.2**	100				35.5	15.4	5.4**	100											
PIONEER 38B85	96	P1250	31.9	17.9	5.7 *	100				40.5	11.0	4.5	100	60.5	77.8**	46.7	36.2	14.5	5.1 *	100											
PIONEER 38H67	98	P1250	29.8	19.3	5.7 *	100				37.2	11.8	4.4	99				33.5	15.6	5.1 *	100											
PIONEER 38P04	94	P1250	30.8	18.8	5.8 *	100				36.7	11.9	4.4	100				33.8	15.4	5.1 *	100											
PIONEER 38W22	92	P1250	33.9	17.2	5.9**	98				38.7	10.9	4.3	97	57.4	72.8 *	46.3	36.3	14.1	5.1 *	98											
PIONEER 39D82	87	P1250	32.0	17.9	5.7 *	100				40.7	10.0	4.1	100				36.4	14.0	4.9	100											
PIONEER 39F28	89	P1250	30.0	18.3	5.4	99	56.8	76.8**	44.9	39.1	11.3	4.4	97	60.1	65.5 *	46.3	34.6	14.8	4.9	98	58.5	71.2**	45.6								
Average		1250	33.2	16.8	5.5	99	55.73	69.4	46.9	42.2	9.9	4.1	97	51.5	68.3	48.8	37.7	13.4	4.8	98	52.1	66.2 *	48.1								
AVERAGE			33.2	15.5	5.1	98	56.3	65.4	46.7	42.9	9.4	3.9	97	48.5	65.9	49.5	38.0	12.4	4.5	98	49.3	65.0	49.2								
HIGHEST			37.9	19.3	5.9	100	61.8	76.8	49.3	54.4	13.2	5.2	100	60.5	77.8	55.1	44.8	15.6	5.4	100	58.5	71.2	52.2								
LOWEST			29.8	4.6	1.6	82	51.4	52.7	43.7	36.7	4.1	2.2	81	28.8	55.4	44.2	33.5	4.4	1.9	87	40.1	54.3	45.6								
CV (%)			4.2	6.8	5.6	2	10.45	13.6	1.7	3.5	7.1	7.3	2	10.6	16.5	1.3	3.1	6.3	5.8	2	10.0	12.0	1.2								
LSD (.05%)			1.7	1.2	0.3	2	7.1	10.8	0.9	1.8	0.8	0.3	3	6.1	13.0	0.8	1.6	0.8	0.3	2	5.9	8.3	0.7								

- 28 -

2 Year AVERAGES		ALGER	DELTA - Early	TRIAL AVERAGE
Brand / Hybrid	RM	Bu/A	Bu/A	Bu/A
BAYSIDE Super 75	75	78.6**	99.0**	88.8**
BAYSIDE Super 80	80		95.1 *	
SPANGLER 1104	80		94.1 *	
NK Brand N09-A4	74	68.5	76.7	72.7
AVERAGE		73.6	91.2	80.8
HIGHEST		78.6	99.0	88.8
LOWEST		68.5	76.7	72.7
CV (%)		8.7	10.5	10.8
LSD (.05%)		9.3	11.5	7.8

3 Year AVERAGE		ALGER
Brand / hybrid	RM	Bu/A
NK Brand N09-A4	74	83.6

WHY SILAGE YIELDS?

Grain trials in Alger and Delta Counties (early), Zone 5, and Delta County (late), Zone 4, were harvested as corn silage in 2004. Lack of sufficient heat units (GDD's) before the first killing frost on September 29th resulted in most of the crop not reaching full physiological maturity. The trials were harvested using normal silage procedures. At the time of silage harvest, ears from all hybrids were inspected to determine which hybrids could be reasonably expected to make harvestable grain. Ear samples from those plots were hand picked for determining grain yield.

Ear samples were oven dried and weighed to determine ear moisture (%EM) listed in the tables. Samples were then shelled, weighed, and processed for test weight (Twt). Grain weights were then converted to yield (Bu/A) by adjusting the dry weights to 15.5% moisture and for population. The intent is to use the data for assistance in determining which hybrids showed potential for reaching full maturity for grain harvest in a cooler than normal growing season. Remember the recorded yields are "estimates" based on a small sample and should be used guardedly. Two and three year yield data from these locations were also calculated using the hand picked samples and should be used accordingly. Hybrids that show no grain yield were still in the milk stage of ear development at the time of the killing frost.