TABLE 4. ALPENA, DELTA (LATE) & GRAND TRAVERSE COUNTY GRAIN TRIALS (96 Day and Earlier) ZONE 4

2004			ALPENA					GRAND TRAVERSE					Silage DELTA - LATE Grain							TRIAL AVERAGE					QUALITY		
Brand / Hybrid	**RM**	**TRT**	**%H2O**	**Bu/A**	**Twt**	**%SL**	**%Std**	**%H2O**	**Bu/A**	**Twt**	**%SL**	**%Std**	**%DM**	**GT/A**	**DT/A**	**%Std**	**%EM**	**Bu/A**	**Twt**	**%H2O**	**Bu/A**	**Twt**	**%SL**	**%Std**	**Prot**	**Oil**	**Strch**
BAYSIDE 2090	90		36.7	113.5	46.7	0.4	100	25.1	110.5	54.9	1.4	100	39.1	11.3	4.4	97				30.9	112.0	50.8	0.9	100	9.6	3.4	57.4
BAYSIDE NorthGro NG1541RR	81		32.8	134.7	48.7	0.4	100	25.3	112.3	53.9	3.3	100	39.6	10.8	4.3	98	49.6	73.5 *	46.5	29.1	123.5	51.3	1.8	100	9.9	3.5	57.3
BAYSIDE Super 75	75		33.4	126.3	51.0	0.4	100	25.9	111.0	54.9	4.4	100	43.6	7.0	3.1	98	43.6	59.6	51.2	29.6	118.6	52.9	2.4	100	9.8	4.0	57.9
BAYSIDE Super 80	80		33.6	126.2	47.4	0.4	100	25.2	118.8	52.2	10.2	100	39.6	9.7	3.9	100	52.1	59.8	44.5	29.4	122.5	49.8	5.3	100	9.4	4.6	56.7
BAYSIDE Super 82	82		35.5	131.9	49.2	0.4	100	25.1	121.6	53.3	1.2	100	41.4	8.0	3.3	94				30.3	126.8	51.2	0.8	100	9.3	4.2	57.7
BAYSIDE Super 86	86		33.9	119.0	47.1	0.0	100	26.5	114.9	52.3	0.8	100	40.6	11.0	4.5	100	49.0	71.5	44.7	30.2	116.9	49.7	0.4	100	10.1	4.0	56.4
GARST 8905RR	87		35.1	131.9	49.1	0.0	100	27.6	106.4	51.9	1.7	100	38.6	10.6	4.2	100	52.8	68.5	45.3	31.3	119.2	50.5	0.9	100	10.2	4.1	55.4
GOLDEN HARVEST EX27207Bt	95		40.7	129.2	47.0	0.4	100	29.1	126.7 *	49.7	1.1	100	31.5	14.3	4.5	99				34.9	128.0	48.3	0.7	100	9.1	4.5	56.4
GOLDEN HARVEST EX36785RR	90		33.6	136.8	46.6	0.7	100	25.2	123.4	53.4	3.8	100	36.4	12.0	4.3	97				29.4	130.1	50.0	2.2	100	9.1	3.2	58.4
GOLDEN HARVEST H-6907RR	95		38.3	131.5	46.9	1.1	100	28.3	124.2	49.4	3.4	100	33.8	13.9	4.6 *	100				33.3	127.9	48.1	2.2	100	9.7	4.5	55.8
PARTNERS BRAND 424	90		35.2	126.4	47.3	0.0	100	28.1	109.4	49.1	7.9	100	36.0	10.8	3.9	99	54.1	59.3	43.5	31.6	117.9	48.2	4.0	100	10.4	4.1	56.1
VIGORO V28Y31	88		37.1	125.9	47.6	1.1	99	29.3	108.7	51.0	3.3	98	36.2	10.9	4.0	90				33.2	117.3	49.3	2.2	99	10.5	4.8	55.2
Average			35.5	127.8	47.9	0.4	100	26.7	115.7	52.2	3.5	100	38.0	10.9	4.0	98	50.2	63.7	46.0	31.1	121.7	50.0	2.0	100	9.8	4.1	56.7
RUPP XR8565	89	C125	34.6	133.1	46.8	0.4	97	25.3	119.2	53.0	2.9	93	34.4	11.1	3.8	84				29.9	126.2	49.9	1.6	95	9.5	3.5	57.7
DAIRYLAND STEALTH-1690	90	P250	40.1	118.1	46.6	1.8	100	27.3	120.8	51.0	5.1	100	38.8	10.8	4.2	100				33.7	119.4	48.8	3.4	100	9.9	4.3	56.5
DAIRYLAND STEALTH-5194	94	P250	38.9	139.2	47.1	0.4	100	29.8	123.9	50.0	0.6	97	35.3	12.3	4.4	94				34.3	131.5	48.5	0.5	99	9.6	4.6	56.1
DAIRYLAND STEALTH-7191	91	P250	34.1	145.9 *	46.8	0.0	100	26.4	124.6	50.7	7.9	100	36.9	13.0	4.7 *	96				30.2	135.2 *	48.7	4.0	100	9.1	3.4	58.0
DEKALB DKC35-01 (RR2)	85	P250	30.7	147.2 *	49.2	4.9	99	26.4	115.5	52.0	8.6	100	41.4	10.1	4.2	100	42.2	84.6**	49.6	28.5	131.4	50.6	6.7	100	10.4	4.9	54.6
DEKALB DKC35-02 (RR2/YGCB)	85	P250	31.2	147.0 *	49.6	0.4	100	26.0	109.4	52.3	4.1	100	39.2	9.7	3.8	100	46.2	71.9	37.6	28.6	128.2	51.0	2.2	100	10.9	5.0	53.6
DEKALB DKC37-14 (RR2)	87	P250	32.5	143.7 *	49.3	0.4	100	27.7	114.9	52.2	2.7	100	39.4	9.5	3.7	100				30.1	129.3	50.8	1.5	100	10.1	4.6	55.7
DEKALB DKC39-47 (RR2)	89	P250	34.9	142.0	47.3	2.1	100	28.7	123.9	51.8	5.8	100	36.4	12.8	4.7 *	100				31.8	133.0 *	49.5	4.0	100	8.9	4.2	57.2
DEKALB DKC39-48 (RR2/YGCB)	89	P250	37.2	132.5	47.5	0.7	100	28.6	126.6 *	50.6	4.1	100	34.7	13.4	4.7 *	100				32.9	129.6	49.0	2.4	100	9.5	4.5	56.6
DEKALB DKC40-05	90	P250	33.4	134.8	47.4	1.4	100	28.0	104.8	50.9	7.5	100	37.0	11.3	4.2	100	55.5	66.2	41.9	30.7	119.8	49.1	4.4	100	9.3	4.1	56.9
DYNAGRO 51K74	83	P250	31.4	138.4	47.8	1.4	100	24.8	133.1**	53.4	3.6	100	41.3	10.7	4.4	99	46.2	76.1 *	47.5	28.1	135.7 *	50.6	2.5	100	9.2	4.6	57.2
DYNAGRO 51P88	86	P250	32.6	145.3 *	47.7	1.8	100	26.9	119.9	51.5	9.4	100	38.0	10.4	4.0	92	51.1	74.5 *	45.2	29.8	132.6 *	49.6	5.6	100	10.8	4.4	55.3
GENESIS 2E84RR	84	P250	33.2	135.3	47.4	0.4	100	27.5	122.4	51.6	9.9	99	39.5	10.3	4.1	96				30.4	128.9	49.5	5.1	100	10.7	4.3	55.4
HIGH CYCLE HC7242YGCB	88	P250	39.4	144.2 *	47.2	0.7	99	28.0	131.3 *	50.3	7.0	100	35.1	13.7	4.8 *	100				33.7	137.8**	48.8	3.8	100	9.3	4.2	57.1
TRELAY 1009	80	P250	31.6	134.6	47.1	3.1	100	24.5	125.1 *	52.9	4.8	100	38.3	10.1	3.9	95				28.0	129.9	50.0	4.0	100	9.3	4.8	56.8
Average		250	34.4	139.1	47.7	1.4	100	27.2	121.1	51.5	5.8	100	38.0	11.3	4.1	98	48.2	69.1	44.4	30.8	130.2	49.6	3.6	100	9.8	4.4	56.2
GENESIS 2C84RR	84	C1250	32.2	132.6	49.2	1.4	100	25.2	110.3	54.5	3.3	100	40.1	10.4	4.2	95	47.5	73.5 *	48.1	28.7	121.4	51.9	2.4	100	9.6	3.7	57.2
GENESIS 2D91RR	91	C1250	34.7	132.0	46.7	0.4	99	26.0	120.2	53.3	1.5	95	36.8	11.8	4.3	92	57.1	65.3	42.1	30.3	126.1	50.0	0.9	97	9.5	3.3	58.1
NK Brand N12-G3	77	C1250	28.5	104.2	49.9	2.1	100	23.6	93.9	56.4	1.5	92	48.0	6.7	3.2	85	35.8	74.6 *	53.6	26.1	99.0	53.2	1.8	96	9.6	4.0	57.9
NK Brand N18-F2	84	C1250	31.7	135.0	50.7	2.1	100	25.9	112.6	55.9	4.9	100	45.8	8.0	3.6	97	42.9	77.1 *	52.1	28.8	123.8	53.3	3.5	100	9.5	3.8	58.7
NK Brand N21-V6	85	C1250	32.3	128.1	48.0	1.1	99	24.7	116.4	52.6	9.5	97	42.4	8.1	3.4	91	44.3	67.5	48.6	28.5	122.3	50.3	5.3	98	9.3	3.7	57.3
PIONEER 37A91	96	P1250	37.9	134.5	47.7	0.0	100	29.3	118.1	49.0	1.3	100	37.7	13.6	5.1**	99				33.6	126.3	48.3	0.6	100	11.0	4.2	54.9
PIONEER 38P04	94	P1250	36.0	148.7 *	48.2	0.4	100	28.2	116.9	50.3	8.5	100	38.0	12.7	4.8 *	96				32.1	132.8 *	49.2	4.4	100	10.6	4.1	55.9
PIONEER 38W22	92	P1250	34.5	142.7	49.7	1.8	100	26.3	117.6	52.9	7.5	100	38.3	10.2	3.8	99	48.8	76.6 *	49.7	30.4	130.2	51.3	4.6	100	10.0	3.9	56.4
PIONEER 39F28	89	P1250	31.6	150.3**	49.2	0.4	100	28.5	121.5	52.2	3.1	100	37.8	11.2	4.3	97				30.0	135.9 *	50.7	1.7	100	9.8	4.4	55.8
Average		1250	33.3	134.2	48.8	1.1	100	26.4	114.2	53.0	4.6	98	40.9	10.2	3.8	94.2	46.1	66.4	49.0	29.8	124.2	50.9	2.8	99	9.9	3.9	56.9
AVERAGE			34.5	134.0	48.0	0.9	100	26.8	117.5	52.1	4.6	99	38.5	10.9	4.1	97	47.9	70.6	46.6	30.6	125.7	50.1	2.8	99	9.8	4.2	56.6
HIGHEST			40.7	150.3	51.0	4.9	100	29.8	133.1	56.4	10.2	100	48.0	14.3	5.1	100	57.1	84.6	53.6	34.9	137.8	53.3	6.7	100	11.0	5.0	58.7
LOWEST			28.5	104.2	46.6	0.0	97	23.6	93.9	49.0	0.6	92	31.5	6.7	3.1	84	35.8	59.3	37.6	26.1	99.0	48.1	0.4	95	8.9	3.2	53.6
CV (%)			3.1	4.5	0.9			3.0	6.1	1.3			5.0	9.0	9.0	3	9.7	13.5	13.1	3.1	5.9	1.1			3.8	5.8	1.2
LSD (.05%)			1.3	7.1	0.5			0.9	8.4	0.8			2.7	1.4	0.5	8	0.1	11.3	7.2	0.8	6.1	0.5			0.4	0.3	0.8

** Highest Yielding Hybrid

* Not Significantly Different from Highest Yielding Hybrid

2 Year AVERAGES		ALPENA					GRAND TRAVERSE						DELTA - Late	TRIAL AVERAGE					QUALITY		
Brand / Hybrid	RM	%H2O	Bu/A	Twt	%SL	%Std	%H2O	Bu/A	Twt	%SL	%Std		Bu/A	%H2O	Bu/A	Twt	%SL	%Std	Prot	Oil	Strch
BAYSIDE 2090	90	33.3	132.6	48.7	6.1	92	25.6	141.4	53.8	0.9	95			28.2	132.3	51.6	3.2	96	9.4	3.6	57.7
BAYSIDE Super 75	75	31.7	135.4	53.3	4.7	94	25.8	130.7	54.6	2.4	96		102.9 *	27.5	132.8	54.2	3.4	97	9.4	4.3	58.1
BAYSIDE Super 80	80	30.4	138.2	49.3	0.9	95	24.9	146.4	52.4	5.9	99		89.9	26.5	135.3	51.5	4.0	98	8.7	4.7	57.3
BAYSIDE Super 82	82	33.1	129.1	49.5	5.2	88	26.2	137.2	52.0	0.8	92			28.1	131.0	51.5	3.1	93	9.0	4.0	58.0
BAYSIDE Super 86	86	31.6	138.7	49.0	6.3	95	26.0	143.5	52.4	0.8	96		96.0	27.6	133.6	51.2	3.4	97	9.5	3.8	57.3
DEKALB DKC35-01 (RR2)	85	29.1	145.6	50.9	3.7	96	25.2	140.2	53.2	4.7	98		108.3**	26.2	139.1	52.5	4.6	98	9.8	5.0	55.4
DYNAGRO 51P88	86	30.5	156.0 *	49.3	5.3	97	26.0	151.0	52.0	4.9	96		99.9	27.1	145.3	51.3	4.9	97	9.8	4.4	56.7
GENESIS 2C84RR	84	30.3	142.8	50.6	0.8	95	25.6	134.2	54.1	2.4	90		100.6 *	26.7	133.8	52.8	2.2	94	9.5	3.8	57.5
GENESIS 2D91RR	91	31.8	146.8	48.6	4.0	94	26.9	152.6	52.2	1.1	95		102.7 *	27.8	144.2	51.3	2.4	96	8.8	3.5	58.6
HIGH CYCLE HC7242YGCB	88	36.2	160.1**	48.2	4.2	93	28.6	159.5**	50.4	3.5	95			30.4	150.7**	50.0	3.7	96	8.6	4.2	57.8
PIONEER 38P04	94	34.3	158.9 *	49.3	5.1	91	28.7	148.1	50.4	4.5	93			29.8	148.1 *	50.5	5.6	94	9.8	4.1	56.8
AVERAGE		32.0	144.0	49.7	4.2	94	26.3	144.1	52.5	2.9	95		100.0	27.8	138.8	51.7	3.7	96	9.3	4.1	57.4
HIGHEST		36.2	160.1	53.3	6.3	97	28.7	159.5	54.6	5.9	99		108.3	30.4	150.7	54.2	5.6	98	9.8	5.0	58.6
LOWEST		29.1	129.1	48.2	0.8	88	24.9	130.7	50.4	0.8	90		89.9	26.2	131.0	50.0	2.2	93	8.6	3.5	55.4
CV (%)		3.5	9.4	1.3	11.2	6.2	2.5	9.5	0.8	5.4	6.1		10.5	3.6	11.6	1.3	10.1	5.8	4.1	3.5	3.0
LSD (.05%)		1.0	6.6	0.8	5.3	3.3	0.6	6.0	0.5	2.4	3.1		9.0	0.6	4.9	0.5	3.0	1.9	0.3	0.2	0.6

3 Year AVERAGES		ALPENA					GRAND TRAVERSE							TRIAL AVERAGE					QUALITY		
Brand / Hybrid	RM	%H2O	Bu/A	Twt	%SL	%Std	%H2O	Bu/A	Twt	%SL	%Std		Bu/A	%H2O	Bu/A	Twt	%SL	%Std	Prot	Oil	Strch
BAYSIDE Super 75	75	30.2	144.2	53.2	3.8	96	24.1	135.8	55.3	1.8	98		122.1**	27.1	140.6	54.0	2.7	98	8.9	4.0	59.4
BAYSIDE Super 86	86	30.8	149.7**	49.6	5.6	96	24.3	150.6**	53.8	0.9	95		117.0 *	27.4	144.1 *	51.5	3.1	97	9.1	3.7	58.3
BAYSIDE 2090	90	31.7	148.1 *	49.5	5.6	94	24.4	146.6 *	54.9	1.2	97			27.8	144.6**	52.0	2.9	97	9.2	3.6	58.3
AVERAGE		30.9	147.3	50.8	5.0	96	24.3	144.3	54.7	1.3	97		119.6	27.4	143.1	52.5	2.9	97	9.1	3.8	58.6
HIGHEST		31.7	149.7	53.2	5.6	96	24.4	150.6	55.3	1.8	98		122.1	27.8	144.6	54.0	3.1	98	9.2	4.0	59.4
LOWEST		30.2	144.2	49.5	3.8	94	24.1	135.8	53.8	0.9	95		117.0	27.1	140.6	51.5	2.7	97	8.9	3.6	58.3
CV (%)		3.8	9.0	1.2	9.6	7.1	3.1	10.8	0.8	4.7	6.1		8.5	3.8	10.8	1.1	7.8	5.8	4.1	5.8	3.7
LSD (.05%)		0.9	5.2	0.6	3.6	3.1	0.6	5.8	0.4	1.7	2.6		7.8	0.5	3.7	0.3	1.8	1.5	0.3	0.3	0.6

** Highest Yielding Hybrid

* Not Significantly Different from Highest Yielding Hybrid

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 than 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.