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## **Alberta Corn Committee**

### 2005 Corn Hybrid Trials

Trials were seeded at Lethbridge (2326\* CHU), Vauxhall (2359\* CHU), Brooks (2353\* CHU), Bow Island (2543\*\* CHU), Outlook, SK (2363\* CHU), and Lacombe (1850\* CHU). A randomized complete block design with four replicates was generated for each site. Plots consisted of two - six metre rows for the silage trials and four - six metre rows for the grain trials. Population densities were 60,000 plants/ha (24,000 plants/acre) for the irrigated grain tests, and 75,000 plants/ha (30,000 plants/acre) for the silage tests.

It was once again a challenging year for corn production in Alberta and Saskatchewan. Cooler temperatures were experienced at most sites, and southern Alberta received record amounts of rainfall that resulted in water stress to the Lethbridge and Vauxhall sites. Despite challenging weather conditions the results reported from all sites was the most uniform and robust data I have encountered since taking over this responsibility in 1997. Many thanks to all of our site Cooperators for a job well done!

Industry participation continues to be very good. The success of this program is only as strong as the commitment from our industry participants and from our cooperating agencies to conduct the trials.

Corn Heat Units, accumulated from 15 May, 2005 to the first kill frost (-2 degrees Celsius), were as follows: Lethbridge 2220 CHU, Vauxhall 2164 CHU, Brooks 2163 CHU, Bow Island 2283 CHU, Outlook, SK 2293 CHU and Lacombe 1628 CHU.

\* 30 year average (1974 - 2004)

\*\* 26 year average (1980 - 2004)

**Invitation for Testing Corn Hybrids in 2006**

This is the official notification inviting your company to participate in the Alberta corn hybrid performance trials. Notification of intent to participate, **together with payment and seed of proposed entries**, must be received no later than April 7<sup>th</sup>. Late arrivals risk exclusion from testing and forfeit of payment. Trials will be conducted at five sites in southern Alberta, and one site at Outlook, SK:

- Brooks (2353 CHU)\*
- Vauxhall (2359 CHU)\*
- Bow Island (2543 CHU)\*\*
- Lethbridge (2326 CHU)\*
- Lacombe (1850 CHU)\*
- Outlook, SK (2363 CHU)\*

\* 30 yr average (1974-2004)  
\*\* 26 yr average (1980-2004)

Fees (including GST #R106693062) for 2005 will be \$140.00 per hybrid per location  
Irrigated Grain Performance Trial..... \$140.00/location  
Irrigated Silage Performance Trial..... \$140.00/location

Visit [www.albertacorn.com](http://www.albertacorn.com) for more information. We would be happy to add a link to your company website for an annual fee of \$100.00. The link fee will help to offset our annual server costs.

**ALL SEED SHOULD BE TREATED WITH PONCHO® FOR WIREWORM PROTECTION - ANECDOTAL OBSERVATIONS REPORT YIELD PENALTIES WITHOUT THIS SEED TREATMENT. IT IS CRITICAL WE MINIMIZE ALL VARIATION OTHER THAN GENETICS SO PLEASE COMPLY WITH PROPER SEED TREATMENT.**

Seed requirements are as follows -

- 900 Kernels/Location..... Irrigated Grain Performance Trial (4-row plot)
- 500 Kernels/Location..... Irrigated Silage Performance Trial (2-row plot)

The following data/observations will be recorded:

	Grain	Silage
10 % Anthesis	X	X
50 % Silking	X	X
Grain Yield	X	
Grain Moisture Content	X	
Test Weight	X	
Whole Plant Yield		X
Whole Plant Moisture Content		X

The Committee will take all reasonable care to ensure the success of each trial, but cannot guarantee that every trial will be successful. If a trial is determined to be invalid by the Committee, the data from the trial will be discarded.

Please send all correspondence, **payment c/o Alberta Corn Committee**, and seed to:

Brian L Beres, Corn Hybrid Trial Coordinator  
 Agriculture & Agri-Food Canada  
 5403 1<sup>st</sup> Ave South, Lethbridge, AB T1J 4B1  
 Phone: (403) 317-2251  
 Fax: (403) 382-3156  
 Email:beresb@agr.gc.ca

## Explanation of Variables

- **Harvest:** grain yields were determined by harvesting all ears or cobs of the centre two rows in each four row plot. Silage yields were determined by harvesting all plants in the two row plot.
- **Yield:** grain yield data, adjusted to 15.5 % moisture, is expressed as either g/plot or bu/ac. Silage yield is expressed as tonnes/ha or tonnes/ac on a dry matter basis. Expression of yield will vary depending on which table you are referencing. To convert tonnes/ac to tonnes/ha, multiply value by 2.471. Also, grams/plot in the grain data can be transformed to bu/ac by dividing value by 57.384. Bushels/acre is converted to kg/ha by multiplying value by the test weight (industry standard = 56 lbs/bushel) and dividing value by 0.892. We also report the yield index, which is labelled '% Checks' or '% of Pooled Mean'. Values in these columns represent the hybrid's yield performance relative to the mean of checks (hybrids with 5 or more station years of testing) grown at the same location.
- **Grain moisture content:** determination of grain moisture at all locations except Outlook was calculated using a Dickey John GAC-II grain moisture computer.
- **Silage whole plant moisture content:** determined by collecting a 300 g fresh weight of chopped material from the harvested plot which is dried down and then re-weighed.
- **Anthesis:** first day of anther extrusion on at least 10% of the plants.
- **Silking:** first day silks are visible on at least 50% of the plants.
- **Test Weight:** expressed as kg/hl, determined by the GAC-II grain moisture computer at Vauxhall and Lethbridge. To convert to lb/bu multiply by 0.807. Test weights were adjusted to moisture at 15.5% using a method that adjusts for porosity changes.

**List of Co-operators**

<b>Location of Test</b>	<b>Co-operator</b>	<b>Supervising Agency</b>	
Lethbridge & Vauxhall	Brian Beres	Agriculture & Agri-Food Canada	
	<i>Technical Support:</i>		
	Ken Coles		
	Ryan Dyck		
	Sheree Kendrick		
	Steven Leusink		
	Chris Procyk		
Brooks & Bow Island	Steven Simmill	AAFRD - Brooks	
	Manjula Bandara		
	<i>Technical Support:</i>		
	Judy Webber		
	Forrest Scharf		
Outlook	Shawna Pow	Agriculture & Agri-Food Canada	
	Terry Hogg		
	<i>Technical Support:</i>		
Lacombe	Don David	Agriculture & Agri-Food Canada	
	Vern Baron		
	<i>Technical Support:</i>		
	Dave Young		
	Tanya Rowe		

**Industry Participants**

<b>Company</b>	<b>Hybrid Line</b>	<b>Contact</b>	<b>Phone</b>
<b>Elite</b>	Elite	Gilbert Brault	(514) 858-2667
<b>Monsanto</b>	DeKalb	Joe McNulty	(204) 985-1093
<b>PICKSEED</b>	PICKSEED	Jay Hackney	1-800-661-4769
<b>Hyland Seeds</b>	Hyland Seeds	Talbot Bergsma	1-800-265-7403
<b>Pioneer Hi-Bred</b>	Pioneer Hi-Bred	Tim Welbanks	1-800-265-9435
<b>Syngenta</b>	NK Brand Seeds	Laurie Goodwin	(519) 753-6746
<b>Maizex Seeds Inc.</b>	Maizex	Shawn Winter	(519) 682-1720
<b>Maize Technologies Intl.</b>	MTI	Mark Frei	+43 (0)5 9010 37 916
<b>Dow Agro Sciences</b>	Mycogen Seeds	Bryan Van Oostveen	(519) 349-2600
<b>Pride Seeds</b>	Pride Seeds	Fred Sinclair	(519) 345-3210
<b>Land 'O Lakes Inc.</b>	Hyttest Seeds	Ken Van Den Bosch	(604) 929-7371

**Soil profiles, seeding, and harvest dates**

<b>Location</b>	<b>Soil Type</b>	<b>Soil Zone</b>	<b>Seed Date Silage</b>	<b>Seed Date Grain</b>	<b>Harvest Silage</b>	<b>Harvest Grain</b>
<b>Lethbridge</b>	Loam	Dark Brown	4-May-05	4-May-05	3-Oct-05	31-Oct-05
<b>Vauxhall</b>	Sandy Loam	Brown	6-May-05	6-May-05	4-Oct-05	25-Oct-05
<b>Brooks</b>	Silty Loam	Brown	6-May-05	6-May-05	5-Oct-05	26-Oct-05
<b>Bow Island</b>	Sandy	Brown	9-May-05	9-May-05	6-Oct-05	20-Oct-05
<b>Outlook, SK</b>	Silty Loam	Dark Brown	20-May-05	20-May-05	3-Oct-05	19-Oct-05
<b>Lacombe</b>	Clay loam	Black	11-May-05	n/a	13-Sept-05	n/a

**Crop Management Summary**

<b>Location</b>	<b>Fertilizer Amendments</b>	<b>Herbicides Used</b>	<b>Irrigation Applied</b>
<b>Lethbridge</b>			
Grain/Silage	Available: - 249.103.1973.62	Eradicane 8E @ 3.4 l/ac Cocktail: - Accent @ 10 g/ac - Atrazine @ 300 ml/ac - Banvel II @ 120 ml/ac - Merge @ 325 ml/ac	5.25" or 133.35mm
<b>Vauxhall</b>			
Grain/Silage	100 lb/ac of N 40 lb/ac of P 30 lb/ac of K 20 lb/ac of S  Available: - 362.246.1097.180	Eradicane 8E @ 3 l/ac Cocktail: - Accent @ 10 g/ac - Atrazine @ 300 ml/ac - Banvel II @ 120 ml/ac - Merge @ 325 ml/ac	6" or 152.4mm
<b>Brooks</b>			
Grain/Silage	34.17.0 @ 445.5 lb/ac	Eradicane 8E @ 3.4 l/ac	9.35" or 237.5mm
<b>Bow Island</b>			
Grain/Silage	34.17.0 @ 445.5 lb/ac	Eradicane 8E @ 3.4 l/ac	12.16" or 305.2mm
<b>Outlook</b>			
Grain/Silage	Urea 46.0.0 @ 100 lb N / ac - broadcast method 0.0.60 @ 100 lb K <sub>2</sub> O / ac - broadcast method 12.51.0 @ 60 lb P <sub>2</sub> O <sub>5</sub> / ac - sideband with seed 34.0.0 @ 50 lb N / ac - broadcast method	Accent Banvel	2.56" or 65.0mm
<b>Lacombe</b>			
Silage	34.0.0 @ 150 lb/ac 0.45.0 @ 30 lb/ac 0.0.60 @ 30 lb/ac	Laddock @ 1.2 L/Ac Assist Surfactant @ 1 L/Ac	none

**\*2006 Alberta Corn Committee Silage Hybrid Performance List**

<b>Company</b>	<b>Hybrid</b>	<b>Location Years</b>	<b>Yield (t/ac) Dry</b>	<b>Yield (% of Pooled Mean)</b>	<b>Whole Plant Moisture %</b>	<b>Date of Anthesis</b>
Pioneer	39F45	26	6.0	83	60	24-Jul-05
Syngenta	N05-C7	8	6.5	91	61	27-Jul-05
Pioneer	39P78	14	6.4	87	61	24-Jul-05
Pioneer	39F59	8	7.2	98	61	29-Jul-05
Hyland	HLS014	20	8.0	110	65	5-Aug-05
Hyland	HLS009	20	7.8	107	65	7-Aug-05
Monsanto	DKC27-12	20	7.5	102	65	28-Jul-05
Pioneer	39H83	8	7.9	107	65	30-Jul-05
Pioneer	39T71	20	7.2	100	65	28-Jul-05
Pioneer	39T67	8	7.6	105	65	27-Jul-05
Syngenta	N16-N7	8	6.9	95	65	31-Jul-05
Monsanto	DKC30-02	7	7.4	102	65	30-Jul-05
Maizex	LF753	8	8.6	117	65	4-Aug-05
Pioneer	3921	51	7.9	109	67	3-Aug-05
Hyland	HLS007	20	7.3	99	67	29-Jul-05
Hyland	HLS011	16	7.6	104	67	9-Aug-05
Syngenta	N11-F4	12	7.2	99	67	29-Jul-05
Pickseed	1424RR	8	6.8	92	68	3-Aug-05
Monsanto	DKC35-01	6	7.3	101	69	1-Aug-05
Maizex	MZ27-77RR	10	7.6	103	69	5-Aug-05
Pioneer	39F27	8	8.2	111	69	3-Aug-05
Pioneer	39K39	8	7.4	101	69	5-Aug-05
Syngenta	4043	46	8.1	111	69	3-Aug-05
Maizex	MZ18-02RR	12	7.0	95	70	1-Aug-05

\*Hybrid must have five or more station years accumulated over two or more calendar years to be published in list

**2005 Alberta Corn Committee Silage Hybrid Performance Averaged Over Locations**

<b>Company</b>	<b>Hybrid</b>	<b>Locations</b>	<b>Yield (t/ac) Dry</b>	<b>Yield (% of Checks)</b>	<b>Whole Plant Moisture %</b>	<b>Anthesis</b>
Pickseed	3524RR	1	13.5	103	65	6-Aug-05
Hyland	Baxxos	4	10.2	108	65	30-Jul-05
Monsanto	DKC35-01	2	10.1	99	65	4-Aug-05
Pioneer	39F45	4	6.3	94	66	4-Aug-05
Hyland	Bixxio RR	4	8.1	86	66	28-Jul-05
Hyland	Bixxio	4	9.1	97	66	29-Jul-05
Hyland	HL B16R	4	10.0	108	66	1-Aug-05
Hyland	Baxxos RR	4	9.9	106	67	30-Jul-05
Syngenta	N05-C7	6	7.4	92	67	2-Aug-05
Hyland	HL R208	4	10.1	106	67	29-Jul-05
Monsanto	DKC30-02	4	9.8	98	67	3-Aug-05
Maizex	LF753	5	10.2	114	67	7-Aug-05
Pickseed	2425RR	1	12.3	94	68	6-Aug-05
Pioneer	39F59	6	7.9	99	68	5-Aug-05
Maizex	MZ27-77RR	2	11.0	108	68	7-Aug-05
Pioneer	39T67(P)	2	5.8	97	68	31-Jul-05
Maizex	LF755RR	4	11.0	117	68	7-Aug-05
Pioneer	39T67(NP)	2	5.1	82	69	1-Aug-05
Monsanto	DKC27-12	6	7.8	95	69	31-Jul-05
Maizex	LF802	4	11.9	127	70	11-Aug-05
Syngenta	N15-P6	6	8.1	101	70	7-Aug-05
Syngenta	N16-N7	6	7.8	99	70	7-Aug-05
Maizex	LF725	6	8.6	105	70	8-Aug-05
Pioneer	39T71	6	8.1	101	70	1-Aug-05
Elite	Maxumm LL	3	7.0	82	70	3-Aug-05
Maizex	LF850RR	2	9.6	94	70	14-Aug-05
Hyland	HLS009	6	8.2	98	70	8-Aug-05
Hyland	HLS014	6	8.5	106	70	7-Aug-05
Pioneer	39T67	6	8.3	103	70	2-Aug-05
Pioneer	39H83	6	8.4	105	71	6-Aug-05
Pickseed	2230RR	5	7.3	89	71	31-Jul-05
Maizex	LF793	5	9.7	110	71	11-Aug-05
Pioneer	3921	4	9.7	104	71	7-Aug-05
Pioneer	39P78	4	6.3	93	71	7-Aug-05
Pickseed	1524RR	4	8.3	88	71	5-Aug-05
Monsanto	DKC26-78	4	7.1	104	72	9-Aug-05
Pickseed	1424RR	4	8.6	90	72	7-Aug-05
Maizex	MZ16-05RR	5	8.8	97	72	6-Aug-05
Pioneer	39F27	4	10.2	108	72	8-Aug-05
Hyland	HLS007	6	7.4	92	72	3-Aug-05
Hyland	HLS011	6	8.6	107	72	16-Aug-05
Maizex	MZ18-02RR	5	8.1	90	72	4-Aug-05

**2005 Alberta Corn Committee Silage Hybrid Performance Averaged Over Locations cont'd**

<b>Company</b>	<b>Hybrid</b>	<b>Locations</b>	<b>Yield (t/ac) Dry</b>	<b>Yield (% of Checks)</b>	<b>Whole Plant Moisture %</b>	
Pioneer	39K39	4	9.8	102	73	10-Aug-05
Syngenta	N11-F4	6	8.2	102	73	3-Aug-05
Monsanto	DKC33-10	5	8.0	89	73	5-Aug-05
Hyttest Seeds	HT 7060	2	10.1	115	73	9-Aug-05
Maizex	EX1015RR	6	7.4	93	73	8-Aug-05
Elite	46T07 RR	3	7.5	92	74	7-Aug-05
Syngenta	4043	6	8.7	108	74	9-Aug-05
Pride Seeds	A4741HM	4	7.4	103	75	8-Aug-05
Syngenta	N8905	6	7.5	93	75	14-Aug-05
Syngenta	N8981	6	6.6	81	76	14-Aug-05
Hyland	HL2093	1	4.0	105	82	13-Aug-05
Maizex	MZ119	1	3.9	103	83	15-Aug-05
Hyland	HL R206	1	3.7	98	84	11-Aug-05
Maizex	MZ133	1	3.8	100	84	19-Aug-05
Pickseed	2365RR	1	3.7	97	84	27-Aug-05
Hyland	HL2017	1	3.8	99	85	9-Aug-05

**Silage Hybrid Performance at Lacombe 2003 - 2005\***

<b>Company</b>	<b>Hybrid</b>	<b>Location Years</b>	<b>Yield (t/ac) Dry</b>	<b>Yield (% of Pooled Mean)</b>	<b>Whole Plant Moisture %</b>	<b>Average Anthesis</b>
Pioneer	39F45	2	3.6	94	79	6-Aug-05
Pioneer	39P78	2	3.9	103	80	9-Aug-05
Monsanto	DKC26-78	2	4.2	110	81	10-Aug-05
Syngenta	N05-C7	2	3.4	89	82	14-Aug-05
Monsanto	DKC27-12	3	3.9	100	82	12-Aug-05
Syngenta	N16-N7	2	3.4	89	82	22-Aug-05
Syngenta	N11-F4	2	4.1	107	83	14-Aug-05
Syngenta	4043	2	3.8	101	84	20-Aug-05

\*Only hybrids with two or more years of testing are reported

**Silage Hybrid Performance at Outlook, SK 2003 - 2005\***

<b>Company</b>	<b>Hybrid</b>	<b>Location Years</b>	<b>Yield (t/ac) Dry</b>	<b>Yield (% of Pooled Mean)</b>	<b>Whole Plant Moisture %</b>	<b>Average Anthesis</b>
Pioneer	39F45	3	5.9	89	60	4-Aug-05
Pioneer	39P78	3	5.9	87	63	8-Aug-05
Monsanto	DKC26-78	2	6.2	91	64	13-Aug-05
Pioneer	39F59	2	7.7	114	65	4-Aug-05
Syngenta	N05-C7	2	6.5	96	66	4-Aug-05
Hyland	HLS014	2	7.2	104	66	12-Aug-05
Monsanto	DKC27-12	3	6.9	101	66	1-Aug-05
Hyland	HLS009	3	7.6	111	67	14-Aug-05
Pioneer	39T71	2	7.1	105	68	1-Aug-05
Pioneer	39T67	2	7.0	102	69	2-Aug-05
Syngenta	N16-N7	2	6.8	99	69	7-Aug-05
Pioneer	39H83	2	7.7	115	69	3-Aug-05
Monsanto	DKC30-02	2	6.0	90	69	6-Aug-05
Hyland	HLS011	2	7.7	115	69	13-Aug-05
Hyland	HLS007	3	6.7	98	70	4-Aug-05
Syngenta	N11-F4	3	7.1	105	72	6-Aug-05
Maizex	MZ18-02RR	3	7.2	105	73	7-Aug-05
Syngenta	4043	3	7.6	109	73	11-Aug-05

\*Only hybrids with two or more years of testing are reported

## 2005 Lethbridge Silage Trial

Company	Hybrid	Anthesis	Silking	Dry Yield (t/ha)	Whole Plant Moisture %
Pioneer	39F45	29-Jul-05	31-Jul-05	11.5	60.9
Syngenta	N05-C7	31-Jul-05	2-Aug-05	11.9	66.9
Pioneer	39P78	1-Aug-05	3-Aug-05	11.2	68.8
Pickseed	2230RR	1-Aug-05	3-Aug-05	10.7	69.1
Hyland	Bixxio RR	31-Jul-05	3-Aug-05	10.3	71.2
Monsanto	DKC26-78	2-Aug-05	4-Aug-05	11.0	71.8
Hyland	Baxxos	2-Aug-05	4-Aug-05	12.0	71.9
Hyland	Baxxos RR	3-Aug-05	5-Aug-05	12.7	72.5
Pioneer	39T71	3-Aug-05	5-Aug-05	11.5	72.7
Pioneer	39T67	3-Aug-05	5-Aug-05	10.8	72.9
Syngenta	N15-P6	6-Aug-05	8-Aug-05	11.1	72.9
Pioneer	39T67(NP)	4-Aug-05	5-Aug-05	8.0	73.0
Hyland	HL S014	9-Aug-05	7-Aug-05	13.2	73.2
Hyland	HL B16R	3-Aug-05	5-Aug-05	12.9	73.2
Pioneer	39T67(P)	2-Aug-05	4-Aug-05	11.2	73.5
Monsanto	DKC27-12	1-Aug-05	3-Aug-05	10.3	73.5
Pioneer	39F59	5-Aug-05	6-Aug-05	10.6	73.8
Hyland	HL S009	10-Aug-05	10-Aug-05	11.3	73.9
Hyland	HL R208	2-Aug-05	4-Aug-05	11.9	74.2
Syngenta	N16-N7	5-Aug-05	6-Aug-05	11.2	74.3
Hyland	Bixxio	2-Aug-05	4-Aug-05	11.8	74.5
Syngenta	N11-F4	2-Aug-05	4-Aug-05	10.6	75.1
Pioneer	39H83	5-Aug-05	7-Aug-05	11.5	75.2
Hytest Seeds	HT 7060	7-Aug-05	6-Aug-05	12.5	75.4
Maizex	LF753	8-Aug-05	7-Aug-05	13.2	75.5
Maizex	LF725	7-Aug-05	8-Aug-05	12.0	75.5
Pride Seeds	A4741HM	7-Aug-05	6-Aug-05	10.8	75.6
Monsanto	DKC30-02	6-Aug-05	7-Aug-05	11.0	75.8
Maizex	LF755RR	8-Aug-05	8-Aug-05	12.9	76.1
Maizex	LF802	16-Aug-05	14-Aug-05	15.1	76.8
Hyland	HL S007	4-Aug-05	6-Aug-05	9.7	77.1
Elite	Maxumm LL	6-Aug-05	8-Aug-05	8.3	77.1
Maizex	EX1015RR	6-Aug-05	9-Aug-05	10.3	77.3
Hyland	HL S011	17-Aug-05	17-Aug-05	12.1	77.4
Syngenta	G4043	7-Aug-05	9-Aug-05	12.8	77.6
Maizex	LF793	14-Aug-05	15-Aug-05	13.1	77.7
Pioneer	3921®	8-Aug-05	10-Aug-05	11.4	77.9
Pioneer	39F27	9-Aug-05	11-Aug-05	11.6	78.0
Pickseed	1524RR	7-Aug-05	9-Aug-05	9.5	78.2
Maizex	MZ16-05RR	7-Aug-05	9-Aug-05	10.0	78.3
Syngenta	N8905	13-Aug-05	15-Aug-05	10.7	78.7
Pioneer	39K39	11-Aug-05	13-Aug-05	11.1	78.9
Maizex	MZ18-02RR	5-Aug-05	8-Aug-05	8.6	79.4
Pickseed	1424RR	9-Aug-05	11-Aug-05	9.3	79.7
Monsanto	DKC33-10	8-Aug-05	10-Aug-05	8.9	79.8
Syngenta	N8981	16-Aug-05	18-Aug-05	7.4	80.8

**2005 Lethbridge Silage Trial cont'd**

	<b>Anthesis</b>	<b>Silking</b>	<b>Dry Yield (t/ha)</b>	<b>Whole Plant Moisture %</b>
R <sup>2</sup>	0.96	0.94	0.77	0.89
CV	0.46	0.53	9.94	2.12
Root MSE	1.01	1.17	1.12	1.58
Mean	6-Aug-05	7-Aug-05	11.24	74.59
LSD (alpha = 0.05)	1.41	1.63	1.56	2.21

## 2005 Vauxhall Silage Trial

Company	Hybrid	Anthesis	Silking	Dry Yield (t/ha)	Whole Plant Moisture %
Syngenta	N05-C7	29-Jul-05	31-Jul-05	13.9	57.9
Hyland	Bixxio	29-Jul-05	31-Jul-05	14.5	59.2
Pioneer	39F59	2-Aug-05	3-Aug-05	15.3	59.8
Hyland	Baxxos	30-Jul-05	1-Aug-05	17.2	60.1
Hyland	HL B16R	30-Jul-05	2-Aug-05	18.4	60.4
Monsanto	DKC27-12	28-Jul-05	31-Jul-05	14.3	61.0
Hyland	Bixxio RR	27-Jul-05	30-Jul-05	12.6	61.7
Syngenta	N16-N7	3-Aug-05	4-Aug-05	16.3	61.8
Syngenta	N15-P6	4-Aug-05	5-Aug-05	15.4	61.9
Pickseed	2230RR	27-Jul-05	31-Jul-05	13.1	62.0
Hyland	Baxxos RR	30-Jul-05	1-Aug-05	16.6	62.3
Pioneer	39T67 (P)	29-Jul-05	1-Aug-05	15.0	62.4
Pioneer	39T71	29-Jul-05	1-Aug-05	15.9	62.4
Maizex	LF753	6-Aug-05	4-Aug-05	18.3	62.6
Hyland	HL R208	29-Jul-05	31-Jul-05	16.2	62.7
Maizex	LF725	4-Aug-05	5-Aug-05	16.7	62.8
Maizex	LF755RR	5-Aug-05	3-Aug-05	18.4	63.3
Pioneer	39H83	2-Aug-05	4-Aug-05	15.9	63.5
Pioneer	39T67	30-Jul-05	2-Aug-05	16.3	63.6
Monsanto	DKC30-02	3-Aug-05	4-Aug-05	17.2	63.7
Hyland	HL S014	7-Aug-05	5-Aug-05	16.4	63.8
Elite	Maxumm LL	3-Aug-05	6-Aug-05	13.9	64.0
Pioneer	39T67 (NP)	29-Jul-05	1-Aug-05	15.0	64.0
Hyland	HL S009	9-Aug-05	7-Aug-05	16.4	65.4
Maizex	LF802	7-Aug-05	5-Aug-05	18.5	65.7
Pioneer	3921®	6-Aug-05	8-Aug-05	17.9	65.8
Hyland	HL S007	30-Jul-05	3-Aug-05	15.9	66.3
Maizex	MZ18-02RR	4-Aug-05	6-Aug-05	15.9	66.4
Syngenta	N11-F4	31-Jul-05	2-Aug-05	17.0	66.4
Monsanto	DKC35-01	4-Aug-05	5-Aug-05	15.7	66.8
Monsanto	DKC33-10	3-Aug-05	5-Aug-05	14.6	67.2
Hyland	HL S011	11-Aug-05	11-Aug-05	18.0	67.8
Pickseed	1424RR	6-Aug-05	8-Aug-05	14.4	67.9
Maizex	MZ16-05RR	5-Aug-05	7-Aug-05	15.7	68.0
Pioneer	39F27	6-Aug-05	8-Aug-05	18.0	68.0
Pickseed	1524RR	4-Aug-05	6-Aug-05	15.1	68.1
Syngenta	G4043	5-Aug-05	7-Aug-05	16.4	68.1
Maizex	LF793	8-Aug-05	10-Aug-05	18.1	68.5
Maizex	MZ27-77RR	8-Aug-05	10-Aug-05	16.9	68.6
Maizex	EX1015RR	4-Aug-05	6-Aug-05	14.6	69.1
Syngenta	N8905	9-Aug-05	11-Aug-05	15.2	69.7
Syngenta	N8981	8-Aug-05	10-Aug-05	14.4	69.9
Maizex	LF850RR	14-Aug-05	15-Aug-05	15.0	70.1
Pioneer	39K39	8-Aug-05	10-Aug-05	14.8	70.3

**2005 Vauxhall Silage Trial cont'd**

	<b>Anthesis</b>	<b>Silking</b>	<b>Dry Yield (t/ha)</b>	<b>Whole Plant Moisture %</b>
R <sup>2</sup>	0.94	0.90	0.65	0.84
CV	0.54	0.65	9.34	2.66
Root MSE	1.17	1.41	1.49	1.72
Mean	3-Aug-05	5-Aug-05	16.00	64.55
LSD (alpha = 0.05)	1.63	1.97	2.09	2.40

## 2005 Brooks Silage Trial

<b>Company</b>	<b>Hybrid</b>	<b>Anthesis</b>	<b>Silking</b>	<b>Dry Yield (t/ha)</b>	<b>Whole Plant Moisture %</b>
Pioneer	39F45	25-Jul-05	29-Jul-05	23.0	59.5
Syngenta	N05-C7	29-Jul-05	2-Aug-05	26.6	63.3
Pioneer	39P78	27-Jul-05	1-Aug-05	22.1	66.3
Monsanto	DKC27-12	27-Jul-05	31-Jul-05	30.0	67.5
Maizex	LF793	15-Aug-05	19-Aug-05	36.7	67.5
Monsanto	DKC26-78	28-Jul-05	2-Aug-05	27.8	67.8
Hyland	Baxxos	1-Aug-05	7-Aug-05	30.0	68.3
Hyland	HL R208	29-Jul-05	2-Aug-05	33.1	68.3
Maizex	LF755RR	10-Aug-05	11-Aug-05	36.0	68.5
Syngenta	N16-N7	5-Aug-05	9-Aug-05	23.0	68.5
Pioneer	39F59	1-Aug-05	6-Aug-05	26.8	68.8
Hyland	Baxxos RR	31-Jul-05	6-Aug-05	29.9	68.8
Hyland	HL B16R	2-Aug-05	6-Aug-05	28.5	68.8
Syngenta	N15-P6	5-Aug-05	10-Aug-05	26.1	68.8
Elite	46T07 RR	2-Aug-05	6-Aug-05	28.6	69.3
Maizex	LF725	9-Aug-05	13-Aug-05	30.1	69.3
Pioneer	39T67	29-Jul-05	3-Aug-05	31.3	69.8
Pioneer	39T71	29-Jul-05	4-Aug-05	27.7	69.8
Hyland	HL S014	12-Aug-05	16-Aug-05	28.8	70.0
Hyland	Bixxio	29-Jul-05	2-Aug-05	27.8	70.3
Hyland	Bixxio RR	29-Jul-05	3-Aug-05	23.1	70.3
Pride Seeds	A4741HM	7-Aug-05	10-Aug-05	31.7	70.5
Hyland	HL S009	13-Aug-05	14-Aug-05	29.7	70.5
Pioneer	39H83	5-Aug-05	10-Aug-05	30.2	70.8
Hyttest Seeds	HT 7060	11-Aug-05	12-Aug-05	32.9	70.8
Maizex	LF753	12-Aug-05	12-Aug-05	33.3	70.8
Monsanto	DKC30-02	4-Aug-05	8-Aug-05	28.6	71.3
Hyland	HL S011	18-Aug-05	20-Aug-05	31.4	71.5
Hyland	HL S007	2-Aug-05	9-Aug-05	26.4	72.0
Maizex	LF802	14-Aug-05	14-Aug-05	38.8	72.3
Maizex	MZ16-05RR	10-Aug-05	14-Aug-05	28.6	72.3
Syngenta	N11-F4	30-Jul-05	4-Aug-05	28.2	72.3
Pickseed	2230RR	28-Jul-05	1-Aug-05	25.3	72.5
Pioneer	3921®	11-Aug-05	15-Aug-05	28.8	72.5
Pickseed	1424RR	12-Aug-05	17-Aug-05	25.5	73.3
Syngenta	G4043	11-Aug-05	14-Aug-05	30.8	73.3
Pickseed	1524RR	8-Aug-05	14-Aug-05	23.9	73.8
Pioneer	39F27	11-Aug-05	16-Aug-05	30.4	73.8
Maizex	EX1015RR	8-Aug-05	14-Aug-05	25.2	73.8
Pioneer	39K39	13-Aug-05	17-Aug-05	30.1	74.0
Syngenta	N8905	13-Aug-05	18-Aug-05	25.7	74.0
Maizex	MZ18-02RR	6-Aug-05	13-Aug-05	23.7	75.3
Monsanto	DKC33-10	9-Aug-05	14-Aug-05	25.5	76.0
Syngenta	N8981	14-Aug-05	19-Aug-05	23.2	76.3

**2005 Brooks Silage Trial cont'd**

	<b>Anthesis</b>	<b>Silking</b>	<b>Dry Yield (t/ha)</b>	<b>Whole Plant Moisture %</b>
R <sup>2</sup>	0.94	0.91	0.58	0.76
CV	0.89	0.98	13.39	2.92
Root MSE	1.94	2.17	3.84	2.05
Mean	5-Aug-05	9-Aug-05	28.70	70.24
LSD (alpha = 0.05)	2.71	3.04	5.37	2.86

## 2005 Bow Island Silage Trial

<b>Company</b>	<b>Hybrid</b>	<b>Anthesis</b>	<b>Silking</b>	<b>Dry Yield (t/ha)</b>	<b>Whole Plant Moisture %</b>
Pioneer	39F59	31-Jul-05	5-Aug-05	28.9	57.0
Hyland	Baxxos	28-Jul-05	1-Aug-05	32.2	58.3
Maizex	LF753	5-Aug-05	7-Aug-05	33.3	58.8
Hyland	Bixxio RR	27-Jul-05	31-Jul-05	26.7	59.5
Hyland	HL S009	7-Aug-05	8-Aug-05	29.7	60.0
Hyland	Bixxio	27-Jul-05	2-Aug-05	27.5	60.3
Maizex	LF725	3-Aug-05	5-Aug-05	33.0	60.8
Pioneer	39H83	1-Aug-05	5-Aug-05	30.5	61.5
Hyland	HL R208	27-Jul-05	31-Jul-05	29.1	61.8
Hyland	HL B16R	31-Jul-05	5-Aug-05	29.5	62.3
Syngenta	N15-P6	4-Aug-05	7-Aug-05	29.9	62.3
Pioneer	39T71	27-Jul-05	2-Aug-05	28.8	62.5
Monsanto	DKC30-02	1-Aug-05	5-Aug-05	28.7	62.5
Pioneer	39T67	27-Jul-05	31-Jul-05	27.6	62.8
Hyland	Baxxos RR	27-Jul-05	2-Aug-05	29.3	62.8
Syngenta	N05-C7	29-Jul-05	2-Aug-05	24.6	62.8
Syngenta	N16-N7	3-Aug-05	7-Aug-05	28.3	62.8
Monsanto	DKC35-01	4-Aug-05	6-Aug-05	29.5	63.0
Hyland	HL S011	12-Aug-05	14-Aug-05	29.8	63.0
Maizex	LF802	8-Aug-05	8-Aug-05	34.2	63.8
Monsanto	DKC27-12	28-Jul-05	2-Aug-05	27.7	64.3
Hyland	HL S014	6-Aug-05	8-Aug-05	30.2	64.3
Pickseed	3524RR	6-Aug-05	10-Aug-05	30.2	64.5
Hyland	HL S007	27-Jul-05	3-Aug-05	25.6	64.5
Maizex	LF755RR	5-Aug-05	6-Aug-05	31.2	64.5
Pickseed	2230RR	27-Jul-05	1-Aug-05	24.4	64.8
Pickseed	1424RR	4-Aug-05	8-Aug-05	27.9	65.3
Pickseed	1524RR	2-Aug-05	6-Aug-05	25.9	65.5
Syngenta	N11-F4	29-Jul-05	4-Aug-05	29.2	65.5
Maizex	MZ16-05RR	5-Aug-05	8-Aug-05	29.3	65.8
Maizex	EX1015RR	2-Aug-05	5-Aug-05	25.8	66.0
Maizex	MZ18-02RR	2-Aug-05	6-Aug-05	28.2	66.5
Pioneer	39K39	8-Aug-05	12-Aug-05	31.6	66.8
Maizex	MZ27-77RR	7-Aug-05	10-Aug-05	32.3	67.0
Pioneer	3921®	5-Aug-05	9-Aug-05	28.8	67.3
Pioneer	39F27	6-Aug-05	10-Aug-05	31.4	67.3
Pickseed	2425RR	6-Aug-05	10-Aug-05	27.5	67.5
Syngenta	G4043	5-Aug-05	7-Aug-05	30.8	67.5
Maizex	LF793	10-Aug-05	12-Aug-05	26.1	68.5
Elite	Maxumm LL	1-Aug-05	5-Aug-05	24.7	68.8
Monsanto	DKC33-10	1-Aug-05	5-Aug-05	25.1	69.5
Maizex	LF850RR	14-Aug-05	15-Aug-05	27.9	69.8
Syngenta	N8981	7-Aug-05	11-Aug-05	23.1	69.8
Syngenta	N8905	8-Aug-05	12-Aug-05	27.2	70.3

**2005 Bow Island Silage Trial cont'd**

	<b>Anthesis</b>	<b>Silking</b>	<b>Dry Yield (t/ha)</b>	<b>Whole Plant Moisture %</b>
R <sup>2</sup>	0.94	0.92	0.46	0.57
CV	0.63	0.60	11.25	5.79
Root MSE	1.35	1.30	3.24	3.70
Mean	2-Aug-05	6-Aug-05	28.79	63.96
LSD (alpha = 0.05)	1.89	1.81	4.53	5.18

**2005 Outlook Silage Trial**

<b>Company</b>	<b>Hybrid</b>	<b>Anthesis</b>	<b>Silking</b>	<b>Dry Yield (t/ha)</b>	<b>Whole Plant Moisture %</b>
Pioneer	39F45	22-Aug-05	31-Jul-05	13.4	59.1
Monsanto	DKC26-78	26-Jul-05	3-Aug-05	15.3	63.9
Pioneer	39P78	25-Jul-05	3-Aug-05	14.2	64.5
Pioneer	39F59	4-Aug-05	7-Aug-05	16.4	65.2
Syngenta	N05-C7	2-Aug-05	6-Aug-05	14.7	65.7
Hyland	HL S014	10-Aug-05	8-Aug-05	18.4	66.7
Monsanto	DKC27-12	31-Jul-05	5-Aug-05	14.9	67.1
Elite	46T07 RR	2-Aug-05	7-Aug-05	15.0	67.6
Syngenta	N16-N7	5-Aug-05	7-Aug-05	17.1	67.6
Pioneer	39T67	2-Aug-05	7-Aug-05	17.3	67.7
Hyland	HL S009	12-Aug-05	11-Aug-05	16.1	67.8
Pride Seeds	A4741HM	3-Aug-05	6-Aug-05	15.1	67.8
Pioneer	39T71	1-Aug-05	6-Aug-05	15.2	68.0
Maizex	LF753	8-Aug-05	7-Aug-05	16.4	68.5
Maizex	LF725	5-Aug-05	8-Aug-05	15.5	68.6
Pioneer	39H83	3-Aug-05	8-Aug-05	16.0	68.8
Syngenta	N15-P6	5-Aug-05	8-Aug-05	17.0	69.2
Hyland	HL S007	1-Aug-05	7-Aug-05	14.4	69.7
Monsanto	DKC30-02	5-Aug-05	8-Aug-05	12.9	70.2
Hyland	HL S011	12-Aug-05	14-Aug-05	15.7	70.9
Maizex	LF793	11-Aug-05	13-Aug-05	15.1	71.0
Maizex	EX1015RR	4-Aug-05	8-Aug-05	14.5	71.2
Syngenta	N11-F4	4-Aug-05	8-Aug-05	15.1	72.6
Monsanto	DKC33-10	5-Aug-05	9-Aug-05	15.4	72.9
Maizex	MZ18-02RR	4-Aug-05	10-Aug-05	14.0	74.0
Syngenta	G4043	8-Aug-05	12-Aug-05	16.1	74.0
Maizex	MZ16-05RR	6-Aug-05	13-Aug-05	15.0	74.2
Syngenta	N8905	12-Aug-05	13-Aug-05	14.1	74.7
Syngenta	N8981	10-Aug-05	14-Aug-05	13.0	75.2

	<b>Anthesis</b>	<b>Silking</b>	<b>Dry Yield (t/ha)</b>	<b>Whole Plant Moisture %</b>
R <sup>2</sup>	0.96	0.94	0.50	0.92
CV	0.60	0.47	10.43	1.83
Root MSE	1.30	1.03	1.59	1.27
Mean	5-Aug-05	8-Aug-05	15.21	69.30
LSD (alpha = 0.05)	1.82	1.45	2.23	1.78

## 2005 Lacombe Silage Trial

Company	Hybrid	Anthesis	Silking	Dry Yield (t/ha)	Whole Plant Moisture %
Pioneer	39F59	22-Aug-05	29-Aug-05	8.7	82.3
Maizex	LF725	21-Aug-05	29-Aug-05	8.2	82.3
Hyland	HL 2093	12-Aug-05	22-Aug-05	8.9	82.4
Hyland	HL S014	1-Sep-05	1-Sep-05	7.8	82.5
Hyland	HL S009	1-Sep-05	7-Sep-05	6.4	82.6
Monsanto	DKC26-78	10-Aug-05	19-Aug-05	9.9	82.7
Maizex	EX1015RR	26-Aug-05	1-Sep-05	8.9	82.8
Hyland	HL S007	19-Aug-05	1-Sep-05	7.5	83.0
Pioneer	39F45	4-Aug-05	9-Aug-05	8.8	83.1
Maizex	MZ119	14-Aug-05	26-Aug-05	8.7	83.2
Syngenta	N15-P6	21-Aug-05	29-Aug-05	8.9	83.3
Monsanto	DKC27-12	10-Aug-05	22-Aug-05	7.7	83.4
Syngenta	N8905	31-Aug-05	8-Sep-05	7.5	83.5
Hyland	HL S011	30-Aug-05	3-Sep-05	8.8	83.5
Elite	46T07 RR	16-Aug-05	29-Aug-05	6.6	83.6
Syngenta	N16-N7	25-Aug-05	29-Aug-05	8.6	83.6
Pioneer	39H83	20-Aug-05	27-Aug-05	9.4	83.7
Hyland	HL R206	10-Aug-05	20-Aug-05	8.3	83.7
Maizex	MZ133	18-Aug-05	29-Aug-05	8.5	83.8
Pride Seeds	A4741HM	17-Aug-05	26-Aug-05	8.5	84.0
Syngenta	N05-C7	16-Aug-05	26-Aug-05	7.3	84.0
Syngenta	N11-F4	16-Aug-05	26-Aug-05	9.6	84.1
Pickseed	2365RR	26-Aug-05	1-Sep-05	8.2	84.1
Pioneer	39P78	6-Aug-05	14-Aug-05	8.5	84.2
Syngenta	N8981	29-Aug-05	3-Sep-05	7.4	84.2
Pioneer	39T71	12-Aug-05	22-Aug-05	9.2	84.2
Pioneer	39T67	14-Aug-05	20-Aug-05	8.5	84.5
Hyland	HL 2017	8-Aug-05	18-Aug-05	8.4	84.7
Pickseed	2230RR	10-Aug-05	19-Aug-05	7.8	84.9
Syngenta	G4043	22-Aug-05	31-Aug-05	9.5	85.7

	Anthesis	Silking	Dry Yield (t/ha)	Whole Plant Moisture %
R <sup>2</sup>	1.00	1.00	0.61	0.55
CV	0.00	0.00	9.96	1.12
Root MSE	0.00	0.00	0.83	0.94
Mean	18-Aug-05	26-Aug-05	8.37	83.58
LSD (alpha = 0.05)	0.00	0.00	1.17	1.32

**\*2006 Alberta Corn Committee Grain Hybrid Performance List**

<b>Company</b>	<b>Hybrid</b>	<b>Location Years</b>	<b>Yield (bu/ac)</b>	<b>Yield (% of Pooled Mean)</b>	<b>Grain Moisture %</b>	<b>Test Weight (lb/bu)</b>	<b>Date of Anthesis</b>
Pioneer	39P78	16	104.5	97	24.1	54.9	25-Jul-05
Pioneer	39F45	22	104.2	97	24.8	57.5	23-Jul-05
Hyland	HL2093	27	109.8	101	25.3	53.0	28-Jul-05
Maizex	MZ119	6	97.1	91	26.4	51.2	28-Jul-05
Hyland	HL2017	36	112.3	105	27.0	53.3	25-Jul-05
MTI Maize	4MA15	7	116.8	109	25.9	52.5	24-Jul-05

\*Hybrid must have five or more station years accumulated over two or more calendar years to be published in list

**2005 Alberta Corn Committee Grain Hybrid Performance Averaged Over Locations**

<b>Company</b>	<b>Hybrid</b>	<b>Locations</b>	<b>Yield (bu/ac)</b>	<b>Yield (% Checks)</b>	<b>Moisture</b>	<b>TWT (kg/hl)</b>	<b>Anthesis</b>
Pioneer	39F45	4	110.6	103	27.3	66.6	31-Jul-05
Pioneer	39P78	4	97.0	90	29.6	59.9	27-Jul-05
Maizex	MZ119	2	93.3	95	29.7	58.8	30-Jul-05
MTI Maize	4MA15	5	122.4	109	30.4	61.2	26-Jul-05
Hyland	HL2093	4	108.4	101	30.7	59.3	30-Jul-05
Pioneer	39F59	2	121.4	104	30.9	58.3	30-Jul-05
Pioneer	39T67	2	104.7	89	32.2	59.9	28-Jul-05
Elite	30A27RR	5	111.7	100	33.1	59.5	28-Jul-05
Pickseed	2230RR	1	95.4	94	33.3	56.9	24-Jul-05
Hyland	HL 2017	4	106.8	100	33.7	58.7	28-Jul-05
Syngenta	N05-C7	5	104.1	93	34.3	63.1	29-Jul-05
Hyland	HL R206	4	101.7	95	34.9	58.8	29-Jul-05
Maizex	MZ133	2	83.6	85	34.9	56.3	30-Jul-05
Monsanto	DKC26-78	1	151.2	113	36.7	62.3	29-Jul-05
Maizex	EX1266	1	81.9	80	40.3	56.5	31-Jul-05
MTI Maize	5MA01	5	112.3	100	43.9	64.2	1-Aug-05
Maizex	EX1015RR	1	52.1	55	45.1	55	7-Aug-05

**2005 Lethbridge Grain Trial**

<b>Company</b>	<b>Hybrid</b>	<b>Anthesis -10%</b>	<b>Silking -50%</b>	<b>Yield (g/plot)</b>	<b>Yield (bu/ac)</b>	<b>Moisture (%)</b>	<b>TWT (kg/ha)</b>
Pioneer	39F45	30-Jul-05	1-Aug-05	5068.9	88.3	23.6	68.9
Pioneer	39P78	1-Aug-05	3-Aug-05	5022.4	87.5	24.3	55.9
MTI Maize	4MA15	1-Aug-05	2-Aug-05	6043.9	105.3	26.2	60.8
Syngenta	N05-C7	1-Aug-05	3-Aug-05	5345.5	93.2	26.3	64.1
Hyland	HL 2093	4-Aug-05	5-Aug-05	4720.3	82.3	26.8	60.3
Elite	30A27RR	1-Aug-05	3-Aug-05	5590.9	97.4	27.2	60.5
Maizex	MZ119	2-Aug-05	5-Aug-05	5168.1	90.1	28.4	58.7
Hyland	HL 2017	1-Aug-05	3-Aug-05	5670.0	98.8	28.6	60.1
Hyland	HL R206	2-Aug-05	3-Aug-05	5107.9	89.0	30.2	59.5
Maizex	MZ133	3-Aug-05	5-Aug-05	5129.7	89.4	31.0	56.3
MTI Maize	5MA01	4-Aug-05	6-Aug-05	6039.3	105.2	40.6	66.3
Maizex	EX1015RR	7-Aug-05	9-Aug-05	2988.6	52.1	45.1	55.0

R <sup>2</sup>	0.94	0.94	0.80	.	0.90	0.54
CV	0.30	0.30	12.02	.	8.14	7.47
Root MSE	0.65	0.66	599.17	.	2.44	4.51
Mean	2-Aug-05	4-Aug-05	4984.20	.	30.03	60.34
LSD (alpha = 0.05)	0.94	0.95	859.25	.	3.50	6.47

**2005 Vauxhall Grain Trial**

<b>Company</b>	<b>Hybrid</b>	<b>Anthesis -10%</b>	<b>Silking -50%</b>	<b>Yield (g/plot)</b>	<b>Yield (bu/ac)</b>	<b>Moisture (%)</b>	<b>TWT (kg/ha)</b>
Pioneer	39P78	27-Jul-05	29-Jul-05	7397.5	128.9	22.6	67.6
Pioneer	39F45	25-Jul-05	27-Jul-05	7944.5	138.4	23.0	71.0
MTI Maize	4MA15	28-Jul-05	30-Jul-05	7888.6	137.5	23.0	64.1
Hyland	HL 2093	1-Aug-05	3-Aug-05	7805.0	136.0	25.4	64.0
Elite	30A27RR	30-Jul-05	1-Aug-05	6748.8	117.6	26.3	62.9
Hyland	HL 2017	30-Jul-05	2-Aug-05	7404.9	129.0	27.3	62.3
Syngenta	N05-C7	31-Jul-05	2-Aug-05	7479.5	130.3	27.3	65.8
Pioneer	39T67	1-Aug-05	3-Aug-05	6970.8	121.5	28.5	62.9
Hyland	HL R206	31-Jul-05	2-Aug-05	7295.2	127.1	28.7	61.5
Pioneer	39F59	3-Aug-05	3-Aug-05	7648.1	133.3	29.6	60.0
MTI Maize	5MA01	3-Aug-05	3-Aug-05	8383.9	146.1	36.8	68.3

R <sup>2</sup>	0.94	0.90	0.77	.	0.90	0.89
CV	0.42	0.43	10.87	.	5.84	2.60
Root MSE	0.89	0.92	787.68	.	1.60	1.66
Mean	31-Jul-05	1-Aug-05	7248.94	.	27.45	63.90
LSD (alpha = 0.05)	1.28	1.32	1132.20	.	2.31	2.39

**2005 Brooks Grain Trial**

<b>Company</b>	<b>Hybrid</b>	<b>Anthesis -10%</b>	<b>Silking -50%</b>	<b>Yield (g/plot)</b>	<b>Yield (bu/ac)</b>	<b>Moisture (%)</b>	<b>TWT (kg/ha)</b>
Pioneer	39F45	22-Jul-05	25-Jul-05	6626.3	115.5	35.1	60.9
Pioneer	39P78	27-Jul-05	31-Jul-05	4806.5	83.8	41.0	56.3
Hyland	HL 2093	30-Jul-05	3-Aug-05	6496.5	113.2	41.1	53.9
MTI Maize	4MA15	27-Jul-05	31-Jul-05	6127.4	106.8	41.1	54.8
Elite	30A27RR	27-Jul-05	31-Jul-05	5729.9	99.9	42.0	55.7
Hyland	HL 2017	27-Jul-05	31-Jul-05	5041.5	87.9	45.3	54.3
Syngenta	N05-C7	29-Jul-05	2-Aug-05	4931.1	85.9	45.7	58.4
Hyland	HL R206	28-Jul-05	1-Aug-05	5280.0	92.0	45.8	56.6
MTI Maize	5MA01	1-Aug-05	5-Aug-05	4666.7	81.3	53.4	54.8

R <sup>2</sup>	0.92	0.93	0.68	.	0.94	0.64
CV	0.44	0.43	12.39	.	3.58	4.08
Root MSE	0.91	0.91	672.57	.	1.57	2.29
Mean	27-Jul-05	31-Jul-05	5430.43	.	43.78	56.19
LSD (alpha = 0.05)	1.44	1.44	1059.80	.	2.47	3.61

**2005 Bow Island Grain Trial**

<b>Company</b>	<b>Hybrid</b>	<b>Anthesis -10%</b>	<b>Silking -50%</b>	<b>Yield (g/plot)</b>	<b>Yield (bu/ac)</b>	<b>Moisture (%)</b>	<b>TWT (kg/ha)</b>
Pioneer	39F45	19-Jul-05	22-Jul-05	5744.4	100.1	27.7	65.7
MTI Maize	4MA15	22-Jul-05	26-Jul-05	6184.5	107.8	28.1	61.0
Hyland	HL 2093	26-Jul-05	30-Jul-05	5856.4	102.1	29.7	59.2
Pioneer	39P78	23-Jul-05	27-Jul-05	5041.3	87.9	30.6	60.0
Maizex	MZ119	27-Jul-05	31-Jul-05	5541.1	96.6	31.0	58.9
Pioneer	39F59	27-Jul-05	30-Jul-05	6289.3	109.6	32.2	56.6
Elite	30A27RR	23-Jul-05	27-Jul-05	6421.1	111.9	33.2	58.6
Pickseed	2230RR	24-Jul-05	28-Jul-05	5477.0	95.4	33.3	56.9
Hyland	HL 2017	23-Jul-05	28-Jul-05	6390.9	111.4	33.8	58.1
Syngenta	N05-C7	25-Jul-05	29-Jul-05	5070.6	88.4	34.7	63.6
Hyland	HL R206	24-Jul-05	28-Jul-05	5670.9	98.8	35.2	57.6
Pioneer	39T67	25-Jul-05	29-Jul-05	5047.8	88.0	36.0	56.9
Maizex	MZ133	26-Jul-05	30-Jul-05	4460.8	77.7	38.8	56.3
Maizex	EX1266	31-Jul-05	3-Aug-05	4699.8	81.9	40.3	56.5
MTI Maize	5MA01	28-Jul-05	1-Aug-05	6117.7	106.6	42.0	69.7

R <sup>2</sup>	0.90	0.93	0.73	.	0.84	0.87
CV	0.54	0.45	10.88	.	6.96	2.84
Root MSE	1.12	0.95	595.10	.	2.38	1.69
Mean	25-Jul-05	29-Jul-05	5470.43	.	34.24	59.59
LSD (alpha = 0.05)	1.60	1.35	847.53	.	3.39	2.41

**2005 Outlook Grain Trial**

<b>Company</b>	<b>Hybrid</b>	<b>Anthesis -10%</b>	<b>Silking -50%</b>	<b>Yield (g/plot)</b>	<b>Yield (bu/ac)</b>	<b>Moisture (%)</b>	<b>TWT (kg/ha)</b>
MTI Maize	4MA15	25-Jul-05	2-Aug-05	8864.1	154.5	33.9	65.3
Monsanto	DKC26-78	29-Jul-05	3-Aug-05	8675.7	151.2	36.7	62.3
Elite	30A27RR	30-Jul-05	3-Aug-05	7563.1	131.8	37.2	60.0
Syngenta	N05-C7	31-Jul-05	5-Aug-05	7029.6	122.5	37.6	64.0
MTI Maize	5MA01	2-Aug-05	7-Aug-05	7031.7	122.5	46.8	62.0

R <sup>2</sup>	0.89	0.94	0.95	.	0.85	0.95
CV	0.75	0.50	6.76	.	7.82	3.73
Root MSE	1.49	1.02	488.73	.	3.10	2.23
Mean	16-Jul-05	22-Jul-05	7228.19	.	39.63	59.73
LSD (alpha = 0.05)	2.25	1.54	736.60	.	4.67	3.36