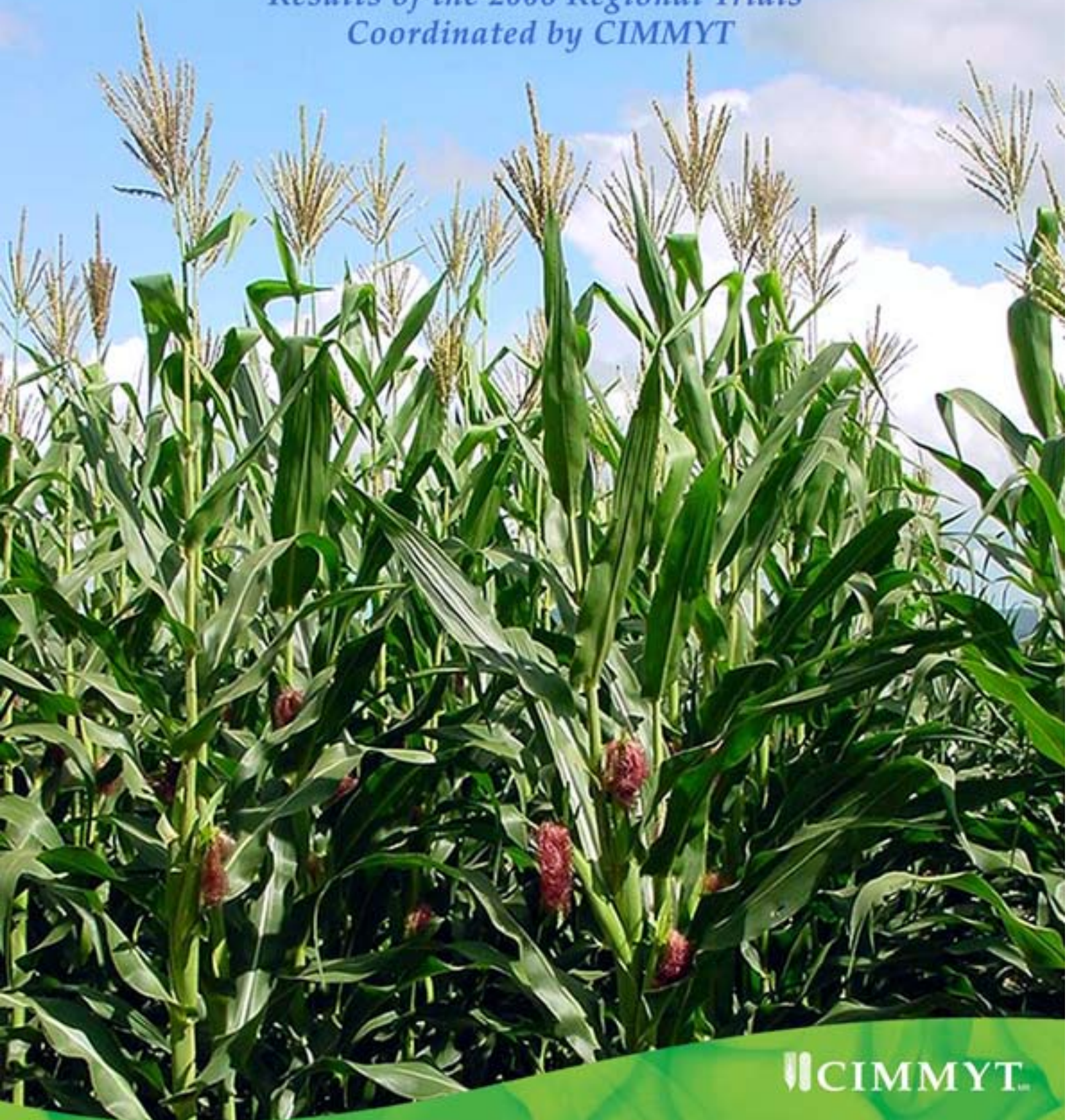


Characterization of Maize Germplasm Grown in  
**Eastern and Southern Africa**

*Results of the 2006 Regional Trials  
Coordinated by CIMMYT*





## **CIMMYT**

The International Maize and Wheat Improvement Center (CIMMYT) is an internationally funded, non-profit scientific research and training organization. Headquartered in Mexico, the Center works with agricultural research institutions worldwide to improve the productivity and sustainability of maize and wheat systems for resource-poor farmers in developing countries. It is one of 16 similar centers supported by the Consultative Group on International Agricultural Research (CGIAR). The CGIAR comprises over 50 partner countries, international and regional organizations, and private foundations. It is co-sponsored by the Food and Agriculture Organization (FAO) of the United Nations, the International Bank for Reconstruction and Development (World Bank), the United Nations Development Program (UNDP), and the United Nations Environment Program (UNEP).

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**Accuracy of information:** The information in this publication is based on results available at the time of publication. This does not exclude that the germplasm may perform differently if grown at other sites, or under different conditions.

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# 1. Introduction

## Maize germplasm

The trials evaluated elite pre-release and released maize germplasm supplied by CIMMYT, National Agricultural Research Programs, and private seed companies from southern Africa. CIMMYT received the germplasm, grouped it according to vigor and maturity, and formed five replicated trials:

**REGPOP06:** early, intermediate to late maturing open-pollinated varieties (OPVs)

**EIHYB06:** early to intermediate maturing hybrids

**ILHYB06:** intermediate to late maturing hybrids

**IPT06:** early, intermediate to late maturing inbred lines

**SXPT06:** early, intermediate to late maturing single cross hybrids

Each trial had an alpha (0,1) lattice design with three replicates.

## Trial management

The trials were grown by CIMMYT, National Agricultural Research Programs, private seed companies and non-governmental organizations in eastern and southern Africa. Collaborators were encouraged to grow the trials under different types of conditions:

**Well-fertilized/rain-fed conditions:** trials were grown using optimal site-specific agronomic practices

**Managed nitrogen stress:** trials were grown in fields that had been depleted of nitrogen by growing unfertilized, non-leguminous crops for several seasons and removing the crop biomass after each season. Nitrogen fertilization to maize trials was designed so that yields under managed N stress averaged 20-35% of the yield of a well-fertilized maize crop at that site.

**Managed drought stress:** trials were grown during a rain-free period, with irrigation applied at the beginning of the season to establish a good plant stand. Afterwards, irrigation was withheld so that the crop suffered drought stress during flowering and grain-filling, resulting in average yields of about 1-3 t/ha.

**Managed low pH stress:** trials were grown in fields with high aluminum saturation (desirably = 60%) and/or low amounts of plant-available phosphorus (desirably 3-4 ppm P; i.e. 20-25% of the recommended levels). The objective was to achieve maize yields that were 50-65% below the optimal maize yield at the same site.

**Artificial inoculation/infestation of biotic stress factors:** trials were grown under artificial inoculation/infestation of leaf diseases, stem borers, and maize grain weevils.

A complete list of the sites can be found in Section 3.

## Data analysis

In each Table (except for IPT06 and SXPT06), entries are grouped by anthesis date and sorted according to the average rank for yield across all sites. Within each maturity group, best ranking entries are listed at the top.

### For presenting grain yields, sites were grouped into some or all of the following nine environments:

Mid Altitude Humid Warm (Zone A), Mid Altitude Humid Hot (Zone B), Mid Altitude Dry (Zone C), Lowland Tropical Humid (Zone D), Lowland Tropical Dry (Zone E), Highlands (Zone F), Midaltitudes in eastern Africa, Managed N stress, Low pH stress. This grouping was done based on the location (for making the division among rainfed/well fertilized sites, (see Fig.1) and the management of the sites (rainfed/well fertilized, managed drought stress, managed N stress, low pH), maximum temperatures and seasonal precipitation. Please refer to Tables 1 and 2 for a detailed explanation of the characteristics of each zone.

Each trial for REGPOP06, EIHYB06 and ILHYB06 is presented with two Summary Tables and Individual site results. IPT06 and SXPT06 are presented with one Summary table and Individual site results.

## Summary Tables

The Summary Tables present grain yields averaged across sites with significant differences between entries, for each of the environments. Data on agronomic performance such as anthesis date, plant and ear height, ear position, root and stem lodging, husk cover, ear rot, leaf diseases, grain weevil and stem borer damage, grain texture and grain moisture were averaged across all sites that provided results with significant differences between entries. If no data are presented for these traits, no trial data demonstrating significant differences for these traits was available.

For REGPOP06, EIHYB06 and ILHYB06, within each maturity group, **grain yields, root and stem lodging, husk cover, ear rot, leaf diseases, weevil and borer damage traits were color-coded**. Within a maturity group, colors that have no letter in common in the legend are different by at least one 'Least Significant Difference' (LSD,  $P \leq 0.05$ ). LSDs were calculated from the mean square error that was pooled across sites. **Note: colors can only be used to compare grain yields within a certain maturity group**. For comparing grain yields between maturity groups, use the LSD listed at the bottom of the Table.

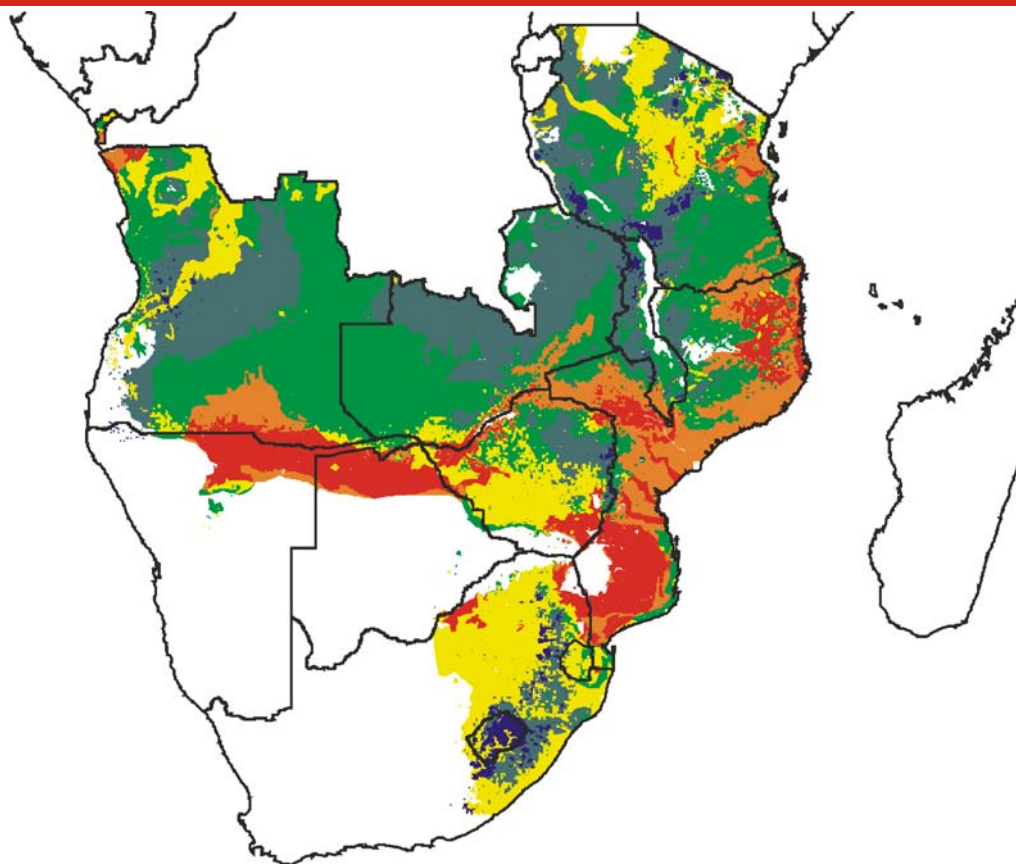
Color Legend		
Within a maturity group, colors that have no letter in common are different by at least one LSD. LSDs were calculated from the mean square error that was pooled across sites.	A	Very Good
	AB	Good
	BC	Average
	CD	Poor
	D	Very Poor

A description of all measurements can be found in Section 2.

## Individual site results

These Tables present grain yields for individual sites, grouped by environment. A description of the sites can be found in Section 3.

**Fig 1. Classification of locations based on SADC Maize Mega-Environments.**



**Table 1: Description of SADC Maize Mega-Environments.**

Zone	Typical Environment <sup>@</sup>	Average Maximum Temperature	Risk of Drought	Season Precipitation	Area in SADC	Percentage
		°C		mm	ha	
A	Mid Altitude Humid Warm	24-27	Low	> 700	75,107,482	29.6%
B	Mid Altitude Humid Hot	27-30	Low	> 700	66,755,372	26.4%
C	Mid Altitude Dry	24-30	High	< 700	48,291,340	19.0%
D	Lowland Tropical Humid	>30	Low	> 700	17,145,789	6.8%
E	Lowland Tropical Dry	>30	High	< 700	38,403,454	15.1%
F	Highlands	<24			7,897,394	3.1%

<sup>@</sup> Typical representative environment for zones A to F. However, zones A to F are best described by considering the average maximum temperature, risk of drought and seasonal precipitation given in Table 1 and illustrated in Figure 1.

**Table 2: Proportion of area in each SADC country for each mega-environment.**

Zone	Proportion of area in each SADC country											
	SADC	Ang	Bot	Les	Mal	Moz	Nam	RSA	Swa	Tan	Zam	Zim
A	29%	30%	0%	11%	49%	7%	0%	19%	14%	32%	47%	17%
B	27%	48%	5%	0%	31%	25%	14%	3%	20%	36%	45%	22%
C	19%	12%	10%	22%	2%	2%	7%	64%	66%	21%	2%	39%
D	7%	6%	13%	0%	8%	39%	13%	1%	0%	5%	4%	8%
E	15%	3%	71%	0%	0%	26%	65%	5%	0%	1%	1%	12%
F	3%	1%	0%	67%	9%	1%	0%	8%	0%	4%	0%	1%

### How can the results be used ...

#### .... by National Agricultural Research Programs?

- Request seed of the very best stress-tolerant, responsive OPVs, hybrids and inbred lines from CIMMYT, other National Programs, and private seed companies, and further test them in the National Maize Evaluation Trials.
- Conduct National Maize Evaluation Trials not only under optimal conditions but also under the most important stresses present in farmers' fields. Consider performance under stress conditions and farmers' preferences when making decisions on release of germplasm.
- Request and use seed of best CIMMYT germplasm (inbred lines, OPVs) in your breeding program and for registration.

#### .... by Private Seed Companies?

- Foster the distribution of cultivars that are not only high yielding under optimal conditions but as well under the most important stresses present in farmers' fields.
- Continue to submit seed of your best germplasm for evaluation in Regional Trials (to CIMMYT) and/or National Maize Evaluation Trials (to National Agricultural Research Programs of individual countries).
- Request and use seed of best CIMMYT germplasm (inbred lines, OPVs) in your breeding program and for commercialization.

#### .... by Seed-Distributing Agencies?

- Use data from Regional Trials (available from CIMMYT-Zimbabwe) and National Maize Evaluation Trials (available from National Agricultural Research Programs of individual countries) for making decisions on which seed to distribute to farmers.
- Distribute quality seed of the very best stress-tolerant, responsive hybrids and OPVs that are currently available.

**Conclusion: Foster the availability and distribution of quality seed of the very best maize cultivars - those that are not only high yielding under optimal conditions but also under the stresses present in farmers' fields.**

## 2. Descriptions of Traits Recorded

<b>Rel. GY</b>	Relative grain yield expressed as percentage of the mean grain yield of the trial. Values above 100% indicate above-average performance; values below 100% indicate below-average performance.
<b>Rank Avg.</b>	Average rank for grain yield across all trials. Small values indicate superior performance; large values indicate inferior performance.
<b>Rank Stdev.</b>	Standard deviation of rank for grain yield across all trials. Small values indicate stable performance; large values indicate variable performance.
<b>Grain yield</b>	Shelled grain weight per plot adjusted to 12.5% grain moisture and converted to tons per hectare.
<b>Anthesis date</b>	Measured as number of days after planting when 50% of the plants shed pollen.
<b>Plant Height</b>	Measured as height between the base of a plant to the insertion of the first tassel branch of the same plant.
<b>Ear Height</b>	Measured as height between the base of a plant to the insertion of the top ear of the same plant.
<b>Ear position</b>	A ratio of ear height to plant height. Small values indicate low ear position; large values indicate high ear position.
<b>Root Lodging</b>	Measured as percentage of plants that show root lodging, i.e. those stems that are inclining by more than 45°.
<b>Stem Lodging</b>	Measured as percentage of plants that show stem lodging, i.e. those stems that are broken below the ear.
<b>Husk Cover</b>	Measured as percentage of plants with ears that are not completely covered by the husks.
<b>Ear Rot</b>	Percentage of ears that are rotten.
<b>GLS</b>	Score for the severity of gray leaf spot ( <i>Cercospora zea-maydis</i> ) symptoms rated on a scale from 1 (= clean, no infection) to 5 (= severely diseased).
<b><i>P. sorghi</i></b>	Score for the severity of common rust ( <i>Puccinia sorghi</i> ) symptoms rated on a scale from 1 (= clean, no infection) to 5 (= severely diseased).
<b><i>E. turcicum</i></b>	Score for the severity of northern leaf blight ( <i>Exserohilum turcicum</i> ) symptoms rated on a scale from 1 (= clean, no infection) to 5 (= severely diseased).
<b><i>H. maydis</i></b>	Score for the severity of maydis leaf blight ( <i>Helminthosporium maydis</i> ) symptoms rated on a scale from 1 (= clean, no infection) to 5 (= severely diseased).
<b>DM</b>	Score for the severity of Downy Mildew ( <i>Pernosclerospora</i> sp.) symptoms rated on a scale from 1 (= clean, no infection) to 5 (= severely diseased).



<b>PLS</b>	Score for the severity of <i>Phaeosphaeria</i> leaf spot ( <i>Phaeosphaeria maydis</i> ) symptoms rated on a scale from 1 (= clean, no infection) to 5 (= severely diseased).
<b>Borer damage</b>	Score for the severity of stem borer ( <i>Busseola</i> and <i>Chilo</i> ) damage rated on a scale from 1 (= clean, no damage) to 5 (= severe damage).
<b><i>Busseola</i> larvae</b>	Count of the number of <i>Busseola</i> larvae. Higher the number indicates susceptibility.
<b><i>Chilo</i></b>	Score for the severity of <i>Chilo partellus</i> leaf damage rated on a scale from 1 (= no infestation) to 9 (= severely infested).
<b>Leaf toughness</b>	Force required to puncture leaves between veins as measured by the penetrometer. Genotypes with lower numbers tend to be susceptible to borers.
<b>Grain weevil (Total F1)</b>	Number of grain weevils hatching and emerging from an infested grain sample within a given period. Large values indicate susceptibility to grain weevils, small values indicate partial resistance to grain weevils.
<b>Grain weevil (Wt loss)</b>	Loss of weight of the grain samples caused by weevil feeding during a given period of incubation. Large values indicate susceptibility to weevils.
<b>Grain texture</b>	Rated on a scale from 1 (= flint) to 5 (=dent).
<b>Grain moisture</b>	Percent water content of grain as measured at harvest.
<b>ASI</b>	Anthesis-silking interval. Determined by (i) measuring the number of days after planting when 50% of the plants shed pollen (anthesis date, AD) and show silks (silking date, SD), respectively, and (ii) calculating: $ASI = SD - AD$ . If measured under drought or N stress, small or negative values indicate stress tolerance.
<b>EPP</b>	Number of ears per plant. Counted as number of ears with at least one fully developed grain divided by the number of harvested plants. An EPP of below 1.0 indicates partial barrenness, an EPP of above 1.0 indicates partial prolificacy. If taken under drought or N stress, values of greater or equal to 1.0 indicate stress tolerance.
<b>Leaf rolling</b>	Leaf rolling score measured under drought stress on a scale from 1 (unrolled, turgid leaves, desirable) to 5 (severely rolled leaves, undesirable).
<b>Senescence</b>	Leaf senescence score on a scale from 1 to 10. Taken during grain-filling by estimating the percentage of dead leaf area and dividing it by 10. If taken under drought or N stress, small scores indicate stress tolerance. 1 = 10% dead leaf area;      6 = 60% dead leaf area 2 = 20% dead leaf area;      7 = 70% dead leaf area 3 = 30% dead leaf area;      8 = 80% dead leaf area 4 = 40% dead leaf area;      9 = 90% dead leaf area 5 = 50% dead leaf area;      10 = 100% dead leaf area
<b>QPM Modification</b>	Score for the extent of modification (extent of opaqueness) of quality protein maize (QPM) kernels rated on a scale from 1 (fully modified/normal looking kernels) to 5 (unmodified/opaque kernels) as evaluated on a light table.

### 3. Sites and Local Checks

Trial Name	Location	Country	Env	Planting Date	GY(t/ha)	LocalCheck1	LocalCheck2	Collaborator
ILHYB065	Bembeke	Malawi	A	1-Dec-05	6			
REGPOP067	Bvumbwe	Malawi	A	30-Nov-05	4.5	ZM621	SUNDWE	W. Paduwa
ILHYB064	Bvumbwe	Malawi	A	7-Dec-05	4.8	DK8073		W. Paduwa
REGPOP063	Chitedze	Malawi	A	30-Dec-05	5.8	ZM621	SUNDWE	G. Nhlane
ILHYB067	Chitedze	Malawi	A	30-Dec-05	7.8	DK8073		G. Nhlane
REGPOP0616	Ukiriguru	Tanzania	A	23-Feb-06	1.5	TMV1	KILIMA	K. Kitenge
EIHYB0617	Ukiriguru	Tanzania	A	23-Feb-06	2.1	TMV1	KILIMA	K. Kitenge
ILHYB0620	Ukiriguru	Tanzania	A	22-Feb-06	2.6	TMV1		K. Kitenge
ILHYB0627	Kasama	Zambia	A	7-Dec-05	6.6	GV704		C. Mungoma
REGPOP0632	Mount Mākulu	Zambia	A	20-Nov-05	6.3	ZM421	POP10	C. Mungoma
EIHYB0628	Mount Mākulu	Zambia	A	20-Dec-05	7.6	GV659	GV470	C. Mungoma
REGPOP0665	Zamseed Farm	Zambia	A	4-Jan-06	4.7	R00216	ZAM521	B. Verma, R. Mutale
EIHYB0661	Zamseed Farm	Zambia	A	4-Jan-06	6.5	ZMS606	ZMS607	B. Verma, R. Mutale
REGPOP0666		Zambia	A		7.1	P0016	ZM521	B. Verma
REGPOP0651	ART Farm Harare	Zimbabwe	A	22-Nov-05	7.8	ZM521	02SADVL	CIMMYT
EIHYB0645	ART Farm Harare	Zimbabwe	A	22-Nov-05	8.9	CZH03009	VH05615	CIMMYT
ILHYB0644	ART Farm Harare	Zimbabwe	A	22-Nov-05	9.5	CZH03028		CIMMYT
REGPOP0647	Gwebi	Zimbabwe	A	25-Nov-05	9.3	033WH64	033WH64	C. Zvarova
EIHYB0641	Gwebi	Zimbabwe	A	25-Nov-05	10.3			C. Zvarova
ILHYB0640	Gwebi	Zimbabwe	A	25-Nov-05	10.6	ZM521		C. Zvarova
REGPOP065	Chitala	Malawi	B	15-Dec-05	4.1	ZM621	SUNDWE	N. Kalowa
EIHYB068	Chitala	Malawi	B	15-Dec-05	6.3	MH18	PAN67	
ILHYB066	Makoka	Malawi	B	29-Dec-05	8.5	DK8073		
REGPOP0642	Angonia	Mozambique	B	27-Dec-05	6.6	SUSSUMA	QS7705	
ILHYB0633	Angonia	Mozambique	B	28-Dec-05	6.6			P. Dinis
REGPOP0645	Sussundenga	Mozambique	B	2-Dec-05	3.3	SUSSUMA	QS7705	D. Mariote, P. Chauque, M. Temo
ILHYB0636	Sussundenga	Mozambique	B	2-Dec-05	2.5	SUSSUMA		D. Mariote, P. Chauque, M. Temo, C. Allino

<b>Trial Name</b>	<b>Location</b>	<b>Country</b>	<b>Env</b>	<b>Planting Date</b>	<b>GY(t/ha)</b>	<b>LocalCheck1</b>	<b>LocalCheck2</b>	<b>Collaborator</b>
ILHYB0638	Sussundenga	Mozambique	B	2-Dec-05	4.3	SUSSUMA		D. Mariote, P. Chauque, M. Temo, C. Allino
EIHYP0619	Katrin	Tanzania	B	21-Mar-06	6.3	STAHA	TMV1	A. Liampawe
ILHYB0617	Katrin	Tanzania	B	21-Mar-06	6.3	TMV1		A. Liampawe
REGPOP0615	Tumbi	Tanzania	B	28-Dec-05	2.9	GEMBE	KIGOMA	T. Bucheyeki
EIHYP0616	Tumbi	Tanzania	B	28-Dec-05	2.9	Kigoma	Gembe	T. Bucheyeki
REGPOP0611	Weruweru	Tanzania	B	17-Mar-06	6.3	SITUKA1	LISHE1	K. Kitege
EIHYP0614	Weruweru	Tanzania	B	17-Mar-06	6.9	TMV1	KILIMA	K. Kitege
ILHYB0614	Weruweru	Tanzania	B	17-Mar-06	7.2	SC627		K. Kitege
ILHYB0626	Msekera	Zambia	B	14-Dec-05	2	GV704		C. Mungoma
EIHYP0657	Rattray-Arnold	Zimbabwe	B	16-Dec-05	8.7			E. Tembo
ILHYB0654	Rattray-Arnold	Zimbabwe	B	16-Dec-05	12.1			E. Tembo
REGPOP068	Baka	Malawi	C	29-Dec-06	3.9	ZM621	SUNDWE	R. Ganunga
REGPOP0641	Maputo	Mozambique	C	5-Jan-06	3.1	SUSSUNA	QS7705	A. Francisco
REGPOP0644	Umbeluzi	Mozambique	C	13-Dec-05	2.1	SUSSUMA	QS7705	C. Senete, N. Nhamucho
EIHYP0635	Umbeluzi	Mozambique	C	9-Dec-05	2.5	SUSSUMA	QS7705	C Senete, E. Nhamucho, W. Tonohate, T. Pachino
EIHYP0638	Umbeluzi	Mozambique	C	9-Dec-05	2.8	SUSSUMA	QS7705	C. Senete, E. Nhamucho, W. Tonhate, T. Pachusso
ILHYB0632	Umbeluzi	Mozambique	C	9-Dec-05	3	SUSSUMA		C. Senete
EIHYP062	LES	Swaziland	C	6-Feb-06	5.2	PAN6573	CRN3549	
REGPOP061	Malkerns	Swaziland	C	21-Nov-05	4.2	SC633	PAN6573	H. Hlope
ILHYB062	Malkerns	Swaziland	C	17-Nov-05	5.9	CRN3505		H. Hlope
EIHYP061	Mangongo	Swaziland	C	20-Dec-05	3.4	PAN6573	CRN3549	
EIHYP0613	Afsf-Arusha	Tanzania	C	15-May-06	4.6	PAN67	SC627	K. Kitege
ILHYB0619	Afsf-Arusha	Tanzania	C	15-May-06	5.8	SC627		K. Kitege
REGPOP0612	Arusha	Tanzania	C	15-May-06	3.9			K. Kitege
ILHYB0613	Arusha	Tanzania	C	16-Mar-06	5.3	PAN67		K. Kitege
REGPOP0610	Selian	Tanzania	C	16-Mar-06	6.2	SITUKA1	LISHE1	K. Kitege
EIHYP0611	Selian	Tanzania	C	16-Mar-06	6.3	PAN67	SC627	K. Kitege
REGPOP0653	Kadoma	Zimbabwe	C	24-Nov-05	6.1	ZM521	02SADVL	CIMMYT
EIHYP0647	Kadoma	Zimbabwe	C	24-Nov-05	11.2	CZH03009	VH05615	CIMMYT

Trial Name	Location	Country	Env	Planting Date	GY(t/ha)	LocalCheck1	LocalCheck2	Collaborator
ILHYB0646	Kadoma	Zimbabwe	C	24-Nov-05	9	CZH03028		CIMMYT
ILHYB0641	Makoholi	Zimbabwe	C	18-Jan-06	1.2	SR52		D. Muungani
REGPOP0648	Makoholi	Zimbabwe	C	18-Jan-06	1.9	ZIM E	ZM421	S. Dhliwayo
REGPOP0654	Makoholi	Zimbabwe	C	2-Dec-05	0.7	ZM521	02SADVL	CIMMYT
EIHYB0642	Makoholi	Zimbabwe	C	19-Jan-06	1			S. DHLIWAYO
EIHYB0648	Makoholi	Zimbabwe	C	2-Dec-05	1.1	CZH03009	VH05615	CIMMYT
ILHYB0647	Makoholi	Zimbabwe	C	2-Dec-05	1.7	CZH03028		CIMMYT
REGPOP0620	Cholima	Tanzania	D	24-Mar-06	3.8	STAHA	TMV1	J. Assenga
EIHYB0620	Cholima	Tanzania	D	10-Mar-06	4.5			J. Assenga
ILHYB0618	Cholima	Tanzania	D	21-Mar-06	4.4			J. Assenga
REGPOP0618	Ilonga	Tanzania	D	17-Feb-06	2.2	STAHA	TMV1	J. Assenga
EIHYB0618	Ilonga	Tanzania	D	17-Feb-06	3.8			J. Assenga
ILHYB0616	Ilonga	Tanzania	D	17-Feb-06	3.8	STAHA		J. Assenga
REGPOP0619	Katrin	Tanzania	D	22-Mar-06	5.3	STAHA	TMV1	A. Liampawe
REGPOP0643	Nampula	Mozambique	E	5-Jan-06	3	SUSSUMA	QS7705	
EIHYB0633	Nampula	Mozambique	E	4-Jan-06	5.1	SUSSUMA	QS7705	
EIHYB0634	Nampula	Mozambique	E	5-Jan-06	3.7	SUSSUMA	QS7705	
ILHYB0651	Nampula	Mozambique	E	12-Jan-06	1.6	SUSSUMA		
REGPOP0631	Nanga	Zambia	E	13-Jun-06	4.1	ZM421	POP10	C. Mungoma
EIHYB0626	Nanga	Zambia	E	13-Jun-06	2.8			C. Mungoma
ILHYB0628	Nanga	Zambia	E	13-Jun-06	4.2	GV704		C. Mungoma
REGPOP0655	Chiredzi	Zimbabwe	E	23-May-06	1	ZM521	02SADVL	CIMMYT
REGPOP0679	Chiredzi	Zimbabwe	E	23-May-06	0.7	ZM521	02SADVL	CIMMYT
EIHYB0649	Chiredzi	Zimbabwe	E	16-May-06	1.2	CZH03009	VH05615	CIMMYT
ILHYB0645	Chiredzi	Zimbabwe	E	9-May-06	1.8	CZH03028		CIMMYT
REGPOP0649	Save Valley	Zimbabwe	E	17-May-06	2.8	ZM421	ZIMBULK E	D. Muungani
EIHYB0643	Save Valley	Zimbabwe	E	20-May-06	1.9	ZS255	SC513	D. Muungani
ILHYB0642	Save Valley	Zimbabwe	E	20-May-06	2.3	SR52		D. Muungani
REGPOP066	Chitedze	Malawi	LN	29-Nov-05	2	ZM621	SUNDWE	R. Ganunga
EIHYB063	Chitedze	Malawi	LN	29-Nov-05	3.3	MH18	PAN67	R. Ganunga
ILHYB069	Chitedze	Malawi	LN	29-Nov-05	2.2	DK8073		R. Ganunga
EIHYB0639	Chokwe	Mozambique	LN	31-Dec-05	3.7	SUSSUMA	QS7705	M. P. Cumaio



<b>Trial Name</b>	<b>Location</b>	<b>Country</b>	<b>Env</b>	<b>Planting Date</b>	<b>G(t/ha)</b>	<b>LocalCheck1</b>	<b>LocalCheck2</b>	<b>Collaborator</b>
REGPOP0639	Lichinga	Mozambique	LN	11-Jan-06	2.4	SUSSUMA	QS7705	
REGPOP0613	Afsf-Arusha	Tanzania	LN	3-Mar-06	3.6	SITUKA1	LISHEK1	K. Kitenge
EIHYB0612	Afsf-Arusha	Tanzania	LN	6-Mar-06	4.1	PAN67	SC627	K. Kitenge
ILHYB0612	Afsf-Arusha	Tanzania	LN	3-Mar-06	5.2	SC627		K. Kitenge
REGPOP0629	Golden Valley	Zambia	LN	24-Dec-05	1.2	ZM421	POP10	C. Mungoma
EIHYB0627	Golden Valley	Zambia	LN	24-Dec-05	1.9			C. Mungoma
REGPOP0646	AREX Harare	Zimbabwe	LN	27-Nov-05	0.3	ZIMBULK E	ZM421	D. Muungani
EIHYB0640	AREX Harare	Zimbabwe	LN	27-Nov-05	0.4	ZS255	SC513	D. Muungani
ILHYB0639	AREX Harare	Zimbabwe	LN	27-Nov-05	0.5	SR52		D. Muungani
REGPOP0652	Harare	Zimbabwe	LN	23-Nov-05	1.5	ZM521	02SADVL	CIMMYT
EIHYB0646	Harare	Zimbabwe	LN	23-Nov-05	3.3	CZH03009	VH05615	CIMMYT
ILHYB0650	Harare	Zimbabwe	LN	29-Nov-05	0.9	CZH03028		CIMMYT
REGPOP062	Tsangano	Malawi	LpH	16-Dec-05	0.2	ZM621	SUNDWE	H. Chidzulo
EIHYB067	Tsangano	Malawi	LpH	14-Dec-05	0.5	MH18	PAN67	H. Chidzulo
ILHYB0625	Golden Valley	Zambia	LpH	24-Dec-05	0.9	GV704		C. Mungoma
REGPOP0630	Kasama	Zambia	LpH	16-Dec-05	5.4	ZM421	POP10	C. Mungoma
EIHYB0629	Kasama	Zambia	LpH	16-Dec-05	5.3	GV659	GV470	C. Mungoma
REGPOP0661		Ethiopia	MAEA	7-Jun-06	5.6	Kuleni	Gibe-	
ILHYB0655		Ethiopia	MAEA	7-Jun-06	9.1	BH541		
REGPOP0676	Bungoma	Kenya	MAEA	27-Apr-06	2.4			S. Esmail
REGPOP0650	Harare	Zimbabwe	MSV	11-Nov-05	5.6	ZM521	02SADVL	CIMMYT
EIHYB0644	Harare	Zimbabwe	MSV	11-Nov-05	7.2	CZH03009	VH05615	CIMMYT
ILHYB0643	Harare	Zimbabwe	MSV	11-Nov-05	12.2	CZH03028		CIMMYT
EIHYB069	Bwanje	Malawi		30-Dec-05	7.7	MH18	PAN67	
REGPOP0640		Mozambique		21-Dec-05	1.1	SUSSUMA	QS7705	
EIHYB0636		Mozambique		21-Dec-05	0.9	SUSSUMA	QS7705	
ILHYB0634		Mozambique		23-Dec-05	5.3			
ILHYB0637		Mozambique		23-Dec-05	4.8	SUSSUMA		
EIHYB0652	Runda	Namibia			11.5			K. Nicholson

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## 5. Summary Results

### REGPOP06

REGPOP06: Results of evaluation of early, intermediate and late maturing OPVs from CIMMYT, Western Seed, Pannar and Nelson Genetics across 35 sites in eastern and southern Africa, 2005/06. Individual site results on pages 21-29 (Table 3C - 3K). Colour legend on page 3. Table 3A

Entry	Name	Pedigree	Origin	Comments	Agro Ecological Zone: Southern Africa											Anth		
					Across			Mid Alt			Mid Alt Humid			Lowland Tropical			Managed Stress	
					RelGY	Rank	StdDev	E. Africa	Warm	Hot	Dry	Humid	Dry	N Stress	Low pH		Date	
					%	Avg		t/ha	t/ha	t/ha	t/ha	t/ha	t/ha	t/ha	t/ha		d	
Entries with anthesis dates less than 60 days																		
36	WS103	WS103	Western Seed	Non-QPM OPV	60	36	7	2.2	3.2	2.9	2.8	2.6	1.6	1.1	1.7	57.0		
Maturity group average					60	36	7	2.2	3.2	2.9	2.8	2.6	1.6	1.1	1.7	57.0		
Entries with anthesis dates between 60 and 62 days																		
5	ZM309	VP047	CIMMYT	Non-QPM OPV	104	19	10	4.1	5.0	4.5	3.7	4.2	2.1	2.0	2.8	61.2		
12	VP05181	VP05181	CIMMYT	Non-QPM OPV	104	20	10	3.6	5.1	4.6	3.8	4.2	2.4	1.7	2.8	61.2		
4	VP041	VP041	CIMMYT	Non-QPM OPV	101	21	10	3.5	4.9	4.3	4.1	4.1	1.8	1.9	2.8	61.7		
1	ZM307	ZM307	CIMMYT	Non-QPM OPV	100	22	9	3.4	4.9	4.3	3.7	4.3	2.2	1.8	3.0	61.9		
10	VP05179	VP05179	CIMMYT	Non-QPM OPV	100	23	11	3.5	5.2	4.7	3.3	3.9	2.1	2.0	2.5	60.5		
17	VP05149	VP05149	CIMMYT	Non-QPM OPV	96	23	9	3.9	4.8	4.4	3.4	3.3	2.2	1.9	2.6	60.5		
2	ZM305	ZM305	CIMMYT	Non-QPM OPV	91	26	9	3.4	4.5	4.2	3.5	3.4	2.1	1.7	2.4	60.2		
11	VP05180	VP05180	CIMMYT	Non-QPM OPV	87	28	9	3.3	4.4	4.0	3.5	4.1	2.1	1.4	2.7	61.3		
27	VP051	VP051	CIMMYT	QPM OPV	75	34	8	2.5	3.9	3.3	3.0	3.6	1.7	1.5	2.1	62.5		
Maturity group average					95	24	9	3.5	4.8	4.3	3.5	3.9	2.1	1.8	2.6	61.2		
Entries with anthesis dates between 63 and 66 days																		
8	02SADVE	02SADVE	CIMMYT	Non-QPM OPV	120	9	7	4.9	6.0	5.3	4.6	5.0	2.5	2.2	3.3	65.3		
7	ZM523	ZM523	CIMMYT	Non-QPM OPV	118	10	7	5.3	6.2	5.4	4.5	4.9	2.1	2.2	2.8	66.3		
3	ZM401	ZM401	CIMMYT	Non-QPM OPV	104	18	9	4.3	5.5	4.5	3.7	4.7	1.9	2.0	2.7	64.0		
20	ZM501	ZM501	CIMMYT	Non-QPM OPV	102	19	9	3.6	5.5	5.2	4.0	4.3	1.8	1.8	2.5	64.2		
6	ZM423	ZM423	CIMMYT	Non-QPM OPV	100	20	10	3.8	5.2	4.5	3.8	4.6	1.4	1.8	3.1	64.8		
18	VP05175	VP05175	CIMMYT	Non-QPM OPV	99	21	10	4.4	5.2	4.6	3.5	3.7	1.9	1.9	3.1	63.9		
15	VP05185	VP05185	CIMMYT	Non-QPM OPV	96	23	11	3.7	4.7	4.1	4.0	4.4	2.2	1.5	2.9	64.2		
13	VP05182	VP05182	CIMMYT	Non-QPM OPV	94	23	8	3.8	4.9	4.7	3.5	4.4	1.6	1.6	2.6	64.8		
14	VP05184	VP05184	CIMMYT	Non-QPM OPV	95	23	10	3.3	4.9	4.2	3.9	4.2	2.0	1.7	2.9	63.0		
39	Local Check1	Local Check1	Various	Local Check1	94	23	13	4.3	4.5	4.3	3.6	5.0	1.5	2.0	2.5	65.9		
33	VP05195	VP05195	CIMMYT	QPM OPV	93	23	9	3.5	5.3	4.2	3.6	4.7	1.9	1.6	2.8	66.5		
40	Local Check2	Local Check2	Various	Local Check2	94	24	12	4.5	5.2	4.1	3.2	4.5	1.7	1.5	2.9	66.4		
32	VP05194	VP05194	CIMMYT	QPM OPV	91	24	11	3.9	4.8	4.6	3.8	5.1	2.3	1.4	2.6	66.4		
16	VP05186	VP05186	CIMMYT	Non-QPM OPV	93	25	9	3.4	4.6	4.4	3.3	4.6	2.3	1.7	2.6	62.8		
28	VP05196	VP05196	CIMMYT	QPM OPV	92	25	9	3.6	4.8	3.9	3.6	4.4	2.4	1.6	2.3	64.5		
37	WS 909	WS 909	Western Seed	Non-QPM OPV	90	26	9	3.1	4.6	4.2	3.5	4.3	1.7	1.7	2.4	65.5		
30	VP05198	VP05198	CIMMYT	QPM OPV	86	28	9	3.3	4.5	4.0	3.5	4.7	2.1	1.7	2.6	64.1		
29	VP05197	VP05197	CIMMYT	QPM OPV	87	28	9	3.5	4.9	4.0	3.4	4.7	1.6	1.4	2.4	64.8		
Maturity group average					97	22	9	3.9	5.1	4.5	3.7	4.6	1.9	1.7	2.7	61.3		
Entries with anthesis dates greater than 66 days																		
25	04SADVL	04SADVL	CIMMYT	Non-QPM OPV	129	8	8	4.9	6.0	6.1	4.5	5.0	2.2	2.6	3.4	67.2		
23	ZM721	ZM721	CIMMYT	Non-QPM OPV	120	10	8	5.0	5.7	5.5	4.3	6.1	2.1	2.2	3.6	68.1		
22	ZM625	ZM625	CIMMYT	Non-QPM OPV	119	10	10	5.0	5.7	5.5	4.4	5.8	2.4	2.1	3.4	67.0		
24	ZM623	ZM623	CIMMYT	Non-QPM OPV	118	11	10	5.2	6.2	6.1	4.1	6.3	2.0	2.3	3.0	67.5		
38	SC513	SC513	Seed Co	Non-QPM hybrid	117	11	9	5.2	5.9	6.1	4.4	5.3	2.1	2.2	3.6	67.0		
21	98SADVI	98SADVI	CIMMYT	Non-QPM OPV	114	12	7	4.3	5.4	5.5	3.9	5.2	2.3	2.5	3.3	66.7		
34	Afric1	Afric1	Nelson Genetics	Non-QPM OPV	108	15	11	5.1	5.7	5.7	4.4	5.2	1.5	2.1	3.2	67.7		
26	04WEEVIL	04WEEVIL	CIMMYT	Non-QPM OPV	113	15	10	5.2	5.5	4.8	3.8	5.0	2.1	2.2	2.9	67.9		
19	VP045	VP045	CIMMYT	Non-QPM OPV	107	16	11	4.6	5.6	5.5	3.8	5.2	1.6	1.9	2.7	69.4		
35	PAN11	PAN11	Pannar	Non-QPM OPV	99	21	10	3.7	5.2	4.8	3.7	4.2	1.6	1.7	3.1	68.5		
9	04SADVE	04SADVE	CIMMYT	Non-QPM OPV	105	21	12	4.2	5.1	4.4	3.7	3.5	1.9	1.9	3.3	67.6		
31	VP052	VP052	CIMMYT	QPM OPV	85	27	11	3.2	4.7	4.3	4.1	5.2	1.1	1.6	2.4	67.3		
Maturity group average					111	15	10	4.6	5.6	5.4	4.1	5.2	1.9	2.1	3.2	67.7		
<b>Mean</b>					<b>100</b>	<b>20</b>	<b>9</b>	<b>3.99</b>	<b>5.10</b>	<b>4.64</b>	<b>3.77</b>	<b>4.55</b>	<b>1.95</b>	<b>1.84</b>	<b>2.81</b>	<b>64.7</b>		
LSD (0.05)					14	7	1	0.83	0.55	0.50	0.48	0.67	0.65	0.40	0.54	0.6		
Min					60	8	7	2.16	3.21	2.91	2.81	2.61	1.11	1.12	1.69	57.0		
Max					129	36	13	5.26	6.21	6.14	4.57	6.33	2.51	2.57	3.64	69.4		
NumSignificantSites					35	35	35	2	6	5	8	2	3	6	2	30		

**REGPOP06: Results of evaluation of early, intermediate and late maturing OPVs from CIMMYT, Western Seed, Pannar and Nelson Genetics across 35 sites in eastern and southern Africa, 2005/06. Individual site results on pages 21-29 (Table 3C - 3K). Colour legend on page 3. Table 3B**

Entry	Name	Origin	Across			Anth	Plant	Ear	Lodging			Husk	Ear	GLS	P.sorg	E.turc	Grain	MSV	Ear	Plant							
			RelGY	Rank	StdDev				Date	Height	Position										Root	Stem	Cover	Rot	Text	Aspect	Aspect
									d	cm	0-1										%	%	%	%			
<b>Entries with anthesis dates less than 60 days</b>																											
36	WS103	Western Seed	60	36	7	57.0	165.3	0.46	21.4	17.9	6.7	10.2	2.2	2.0	2.6	2.9	1.5	2.9	3.4								
Maturity group average			60	36	7	57.0	165.3	0.46	21.4	17.9	6.7	10.2	2.2	2.0	2.6	2.9	1.5	2.9	3.4								
<b>Entries with anthesis dates between 60 and 62 days</b>																											
5	ZM309	CIMMYT	104	19	10	61.2	165.5	0.42	7.7	3.7	5.0	7.3	1.8	1.6	2.2	2.7	1.3	2.4	3.0								
12	VP05181	CIMMYT	104	20	10	61.2	174.1	0.43	7.8	5.6	6.6	10.4	1.8	1.9	2.3	2.8	1.7	2.8	3.0								
4	VP041	CIMMYT	101	21	10	61.7	177.1	0.42	7.4	6.7	4.8	9.4	1.8	1.9	2.4	3.1	1.5	2.8	3.0								
1	ZM307	CIMMYT	100	22	9	61.9	171.1	0.43	8.4	5.3	7.6	7.9	1.9	2.1	2.6	2.9	1.3	2.8	3.0								
10	VP05179	CIMMYT	100	23	11	60.5	179.0	0.46	9.0	6.7	6.9	7.7	1.7	1.7	2.4	2.7	1.5	2.6	3.1								
17	VP05149	CIMMYT	96	23	9	60.5	167.3	0.43	10.2	5.5	4.8	7.0	1.7	1.7	2.4	2.9	1.2	2.5	3.2								
2	ZM305	CIMMYT	91	26	9	60.2	172.9	0.44	10.2	6.9	6.1	7.5	1.9	2.0	2.6	2.7	1.5	2.8	3.2								
11	VP05180	CIMMYT	87	28	9	61.3	182.4	0.47	9.7	7.9	5.4	8.9	1.8	2.6	2.6	2.7	1.2	2.4	2.9								
27	VP051	CIMMYT	75	34	8	62.5	176.7	0.44	8.4	7.2	4.4	12.1	2.0	2.1	2.7	2.2	1.7	2.5	3.1								
Maturity group average			95	24	9	61.2	174.0	0.44	8.8	6.2	5.7	8.7	1.8	2.0	2.5	2.7	1.4	2.6	3.0								
<b>Entries with anthesis dates between 63 and 66 days</b>																											
8	O2SADVE	CIMMYT	120	9	7	65.3	184.9	0.48	8.1	2.1	9.3	7.0	1.5	1.6	2.1	3.3	1.3	2.5	2.4								
7	ZM523	CIMMYT	118	10	7	66.3	184.0	0.47	6.0	4.6	8.0	5.6	1.5	2.1	2.2	2.9	1.3	2.6	2.6								
3	ZM401	CIMMYT	104	18	9	64.0	173.9	0.45	9.8	4.5	6.5	9.1	1.4	1.7	2.5	2.7	1.2	2.8	2.6								
20	ZM501	CIMMYT	102	19	9	64.2	181.1	0.44	5.8	4.9	8.1	7.8	1.6	1.8	2.4	3.1	1.7	2.6	2.7								
6	ZM423	CIMMYT	100	20	10	64.8	179.2	0.45	7.0	4.9	8.2	6.1	1.5	1.8	2.2	2.9	1.7	2.5	2.8								
18	VP05175	CIMMYT	99	21	10	63.9	173.5	0.44	9.7	5.1	7.7	8.2	1.5	1.9	2.2	2.6	1.7	2.6	2.7								
15	VP05185	CIMMYT	96	23	11	64.2	169.6	0.44	7.5	6.8	5.3	5.2	2.0	1.9	2.7	2.2	1.3	2.3	2.7								
13	VP05182	CIMMYT	94	23	8	64.8	192.3	0.51	9.8	7.3	5.9	7.0	1.7	2.0	2.5	3.1	2.2	2.6	2.8								
14	VP05184	CIMMYT	95	23	10	63.0	174.8	0.46	6.6	6.1	10.9	8.3	1.7	1.8	2.5	2.2	1.5	2.6	2.8								
39	Local Check1	Various	94	23	13	65.9	183.9	0.48	5.7	6.9	9.0	6.5	1.7	2.2	2.5	2.9	1.5	2.3	2.5								
33	VP05195	CIMMYT	93	23	9	66.5	185.3	0.47	8.4	6.1	5.1	7.4	1.7	1.7	2.3	2.8	1.8	2.7	2.6								
40	Local Check2	Various	94	24	12	66.4	183.0	0.48	7.4	6.0	7.7	4.9	1.6	2.1	2.6	2.9	1.8	2.2	2.4								
32	VP05194	CIMMYT	91	24	11	66.4	189.8	0.46	14.4	4.8	3.9	3.9	1.9	2.0	2.7	3.1	1.7	2.4	2.4								
16	VP05186	CIMMYT	93	25	9	62.8	177.0	0.46	7.1	10.2	6.5	6.2	1.8	2.0	2.6	2.6	1.7	2.6	2.9								
28	VP05196	CIMMYT	92	25	9	64.5	180.9	0.45	6.5	5.7	8.4	8.6	1.7	2.0	2.8	2.3	1.5	2.6	2.6								
37	WS 909	Western Seed	90	26	9	65.5	179.8	0.47	11.2	7.5	9.0	6.4	1.6	1.9	2.4	2.9	1.5	2.7	3.0								
30	VP05198	CIMMYT	86	28	9	64.1	180.2	0.46	6.4	5.9	3.9	6.6	1.7	1.7	2.7	2.6	2.2	2.6	2.9								
29	VP05197	CIMMYT	87	28	9	64.8	182.9	0.47	8.7	8.2	4.5	7.0	1.7	2.0	2.6	2.2	1.5	2.5	3.0								
Maturity group average			97	22	9	61.3	165.5	2.95	8.1	6.0	7.1	6.8	1.7	1.9	2.5	2.7	1.6	2.5	2.7								
<b>Entries with anthesis dates greater than 66 days</b>																											
25	O4SADVL	CIMMYT	129	8	8	67.2	193.3	0.50	5.1	3.7	7.5	4.7	1.5	1.4	1.9	3.1	1.9	2.4	2.4								
23	ZM721	CIMMYT	120	10	8	68.1	191.2	0.52	4.7	3.3	7.8	3.3	1.4	1.4	2.1	3.2	1.2	2.5	2.4								
22	ZM625	CIMMYT	119	10	10	67.0	187.2	0.48	7.8	3.4	10.1	4.7	1.5	1.5	2.2	3.2	1.5	2.6	2.2								
24	ZM623	CIMMYT	118	11	10	67.5	187.8	0.49	5.0	5.1	8.2	4.1	1.6	1.9	1.9	3.1	1.3	2.3	2.1								
38	SC513	Seed Co	117	11	9	67.0	192.8	0.50	8.0	5.6	8.3	4.8	1.4	2.2	2.1	3.5	1.8	2.7	2.5								
21	98SADVI	CIMMYT	114	12	7	66.7	182.4	0.47	4.1	3.3	8.1	4.6	1.4	1.8	2.4	3.2	1.6	2.8	2.6								
34	Afric1	Nelson Genetics	108	15	11	67.9	187.8	0.50	7.3	5.2	8.9	5.3	1.5	1.7	2.2	3.5	1.5	2.8	2.3								
26	O4WEEVIL	CIMMYT	113	15	10	67.7	188.5	0.46	3.1	3.7	12.2	6.3	1.3	1.9	2.0	2.2	1.7	2.5	2.4								
19	VP045	CIMMYT	107	16	11	69.4	185.0	0.49	4.6	3.5	8.2	7.8	1.5	1.7	2.5	3.1	1.5	2.8	2.1								
35	PAN11	Pannar	99	21	10	68.5	179.4	0.50	10.5	4.0	9.8	6.0	1.7	1.8	2.2	2.7	2.5	2.6	2.5								
9	O4SADVE	CIMMYT	105	21	12	67.6	182.3	0.52	8.7	6.0	9.3	5.3	1.3	1.7	2.2	2.6	1.5	2.7	2.7								
31	VP052	CIMMYT	85	27	11	67.3	191.9	0.48	10.3	4.9	4.4	5.4	1.7	1.7	2.5	3.2	1.7	2.6	2.4								
Maturity group average			111	15	10	67.7	187.5	0.49	6.6	4.3	8.6	5.2	1.5	1.7	2.2	3.0	1.6	2.6	2.4								
Mean			100	20	9	64.7	180.9	0.47	8.1	5.8	7.2	6.8	1.7	1.9	2.4	2.8	1.6	2.6	2.7								
LSD (0.05)			14	7	1	0.6	4.3	0.02	3.0	2.1	2.9	2.6	0.2	0.2	0.2	0.3	0.5	0.4	0.4								
Min			60	8	7	57.0	165.3	0.42	3.1	2.1	3.9	3.3	1.3	1.4	1.9	2.2	1.2	2.2	2.1								
Max			129	36	13	69.4	193.3	0.52	21.4	17.9	12.2	12.1	2.2	2.6	2.8	3.5	2.5	2.9	3.4								
NumSignificantSites			35	35	35	30	23	23	14	16	5	7	10	7	14	8	1	5	2								

# EIHYB06

EIHYB06: Results of evaluation of early and intermediate maturing hybrids from CIMMYT, Seedco, Pioneer and Western Seed across 30 sites in eastern and southern Africa, 2005/06. Individual site results on pages 30-40 (Table 4C-4M). (Colour Index on page 3).

Table 4A

Entry	Name	Pedigree	Origin	Comments	Across		Agro Ecological Zone: Southern Africa									
							Mid Alt Humid		Mid Alt	Lowland Tropical		Managed Stress		Anth		
							Warm	Hot	Hot	Humid	Dry	Low N	Low pH	Date		
							A	B	C	D	E					
		%	Avg	StdDev	t/ha	t/ha	t/ha	t/ha	t/ha	t/ha	t/ha	d				
<b>Entries with anthesis dates between 64 and 66 days</b>																
16	CZH0524	CML395/CZL0520//CZL00009	CIMMYT	Non-QPM Hybrid	112	13	10	7.7	6.8	2.5	4.7	3.7	2.9	3.3	64.9	
12	CZH03005	CML395/CML444//CZL03004	CIMMYT	Non-QPM Hybrid	107	15	8	7.3	7.3	2.6	3.5	3.7	2.9	3.2	66.4	
29	SC411	SC411	SeedCo	Non-QPM Hybrid	103	16	8	7.3	7.4	2.3	4.7	2.6	3.1	3.0	65.3	
13	CZH04003	CML312/CML442//CZL04003	CIMMYT	Non-QPM Hybrid	102	19	10	6.8	6.9	2.4	5.0	3.4	2.9	2.5	66.1	
17	CZH0525	CZL00001/CML312//CZL03002	CIMMYT	Non-QPM Hybrid	101	19	10	6.6	6.6	2.8	3.2	2.9	2.7	3.3	65.2	
10	CZH04002	CML312/CML442//CZL04002	CIMMYT	Non-QPM Hybrid	98	20	9	6.7	6.4	2.3	3.5	3.2	2.7	3.1	63.7	
23	CZH0531	CZL0523/CZL0512//CZL0524	CIMMYT	Non-QPM Hybrid	98	21	10	6.4	5.8	2.5	4.0	3.3	2.5	3.3	65.0	
30	SC525	SC525	SeedCo	Non-QPM Hybrid	93	22	10	7.3	6.6	2.1	4.7	3.1	2.0	2.8	66.0	
4	CZH0520	CZL01006/CML176//CZL0516	CIMMYT	QPM Hybrid	90	23	10	6.4	6.3	2.3	4.6	3.6	2.2	2.5	65.8	
20	CZH0528	CML444/CZL02007//CML312/CZL02008	CIMMYT	Non-QPM Hybrid	90	24	8	6.8	6.2	2.3	2.9	3.1	2.6	2.5	64.4	
24	CZH0532	CZL0525/CZL0526//CZL03003	CIMMYT	Non-QPM Hybrid	90	24	8	6.8	6.0	2.0	4.1	3.1	2.4	3.1	65.2	
28	SC403	SC403	SeedCo	Non-QPM Hybrid	87	24	10	6.9	6.0	2.1	4.2	2.0	2.6	2.9	64.5	
Maturity group average					98	20	9	6.9	6.5	2.3	4.1	3.1	2.6	3.0	65.2	
<b>Entries with anthesis dates between 67 and 69 days</b>																
31	SC527Q	SC527Q	SeedCo	QPM Hybrid	111	11	10	7.9	7.9	2.4	4.6	3.5	2.9	3.6	69.4	
3	CZH04032	CML181/CZL01005//CZL03018	CIMMYT	QPM Hybrid	113	12	8	7.4	7.1	2.9	5.0	4.1	3.2	3.1	68.5	
25	CZH0533	CZL00001/CML312//CML444/CZL99014	CIMMYT	Non-QPM Hybrid	110	13	9	7.8	7.8	2.6	3.5	3.8	3.2	2.9	69.0	
18	CZH0526	CML312/CML395//CZL0521	CIMMYT	Non-QPM Hybrid	109	13	7	7.4	7.6	2.5	4.7	3.4	3.0	3.5	68.7	
5	CZH0521	CZL0517/CZL04021//CML181/CZL01005	CIMMYT	QPM Hybrid	108	13	9	7.7	7.3	2.8	5.3	3.8	2.7	3.1	69.4	
11	CZH04005	CML395/CML444/CZL03005/CZL02003	CIMMYT	Non-QPM Hybrid	106	14	9	7.5	7.8	2.5	4.0	3.9	2.7	3.0	68.2	
1	CZH04034	CML181/CZL01005//CZL04021	CIMMYT	QPM Hybrid	106	14	10	7.4	7.6	2.7	5.4	3.7	2.8	2.4	69.4	
32	SC633	SC633	SeedCo	Non-QPM Hybrid	103	15	11	7.9	7.9	2.2	5.5	2.5	2.8	3.1	68.8	
22	CZH0530	CZL99014/CML312//CML488	CIMMYT	Non-QPM Hybrid	106	16	9	7.4	7.3	2.9	3.6	3.3	3.0	3.0	67.3	
15	CZH0535	CML395/CML444//CZL0514	CIMMYT	Non-QPM Hybrid	104	16	9	7.4	7.3	2.2	3.6	3.6	2.9	3.2	68.2	
19	CZH0527	CML312/CML442//CZL0521	CIMMYT	Non-QPM Hybrid	104	16	9	7.2	7.5	2.3	4.5	3.1	2.6	3.0	67.9	
21	CZH0529	CML444/CZL02008//CZL99014/CML312	CIMMYT	Non-QPM Hybrid	103	17	11	7.4	7.6	2.5	2.6	4.1	2.8	2.8	67.3	
14	CZH0534	CML312/CML442//CZL0512	CIMMYT	Non-QPM Hybrid	102	17	11	6.8	7.3	2.5	4.6	4.5	2.6	2.7	68.4	
6	CZH0522	CZL0517/CZL04021//CML181/CML182	CIMMYT	QPM Hybrid	101	18	8	6.9	6.8	2.2	4.6	3.6	3.1	2.6	68.0	
7	CZH0523	CZL0517/CZL04021//CML182	CIMMYT	QPM Hybrid	96	20	8	7.1	6.9	2.4	3.4	3.3	2.8	2.6	68.3	
9	CZH04001	CML395/CML444//CZL04001	CIMMYT	Non-QPM Hybrid	94	21	9	6.7	7.5	2.1	4.3	2.8	2.3	2.5	67.2	
2	CZH04035	CML181/CML182//CZL04021	CIMMYT	QPM Hybrid	93	21	11	6.4	6.8	2.3	3.8	3.3	2.4	2.4	68.9	
27	PHB30B50	PHB30B50	Pioneer	Non-QPM Yellow Hybrid	86	22	12	6.2	7.4	2.1	5.2	2.7	1.7	3.1	66.7	
34	Local Check1	Local Check1	Various	Local Check1	89	23	9	6.6	7.2	1.9	3.4	3.0	2.2	2.8	68.0	
35	Local Check2	Local Check2	Various	Local Check2	88	23	11	5.5	6.9	2.3	3.9	3.5	2.1	2.2	68.2	
Maturity group average					102	17	9	7.1	7.4	2.4	4.3	3.5	2.7	2.9	68.3	
<b>Entries with anthesis dates greater than 70 days</b>																
8	CZH0536	CZL0517/CZL04021//CML181	CIMMYT	QPM Hybrid	110	13	9	7.7	7.4	3.0	4.5	4.1	3.0	3.0	70.3	
26	WH403	WH403	Western Seed	Non-QPM Hybrid	99	18	10	7.2	7.3	2.3	4.1	2.3	2.6	2.9	70.2	
33	CZH0537	CML144/CZL0510//CML181	CIMMYT	QPM Hybrid	87	25	7	6.4	6.3	2.2	3.1	3.2	2.5	2.8	70.8	
Maturity group average					99	19	9	7.1	7.0	2.5	3.9	3.2	2.7	2.9	70.4	
<b>Mean</b>					100	18	9	7.06	7.05	2.40	4.18	3.33	2.67	2.90	<b>67.4</b>	
<b>LSD (0.05)</b>					8	4	1	0.72	0.70	0.40	0.95	0.89	0.63	0.55	<b>0.5</b>	
<b>Min</b>					86	11	7	5.51	5.81	1.86	2.58	2.00	1.65	2.16	<b>63.7</b>	
<b>Max</b>					113	25	12	7.91	7.93	2.98	5.45	4.54	3.18	3.58	<b>70.8</b>	
NumSignificantSites					29	29	29	5	4	5	2	3	5	2	26	

**EIHYB06: Results of evaluation of early and intermediate maturing hybrids from CIMMYT, Seedco, Pioneer and Western Seed across 30 sites in eastern and southern Africa, 2005/06. Individual site results on pages 30-40(Table 4C-4M). (Colour Index on page 3). Table 4B**

Entry	Name	Origin	Across			Anth Date	Plant Height	Ear Position	Lodging		Husk Cover	Ear Rot	GLS 1-5	P.sorg 1-5	E.turc 1-5	Grain Text	MSV 1-5	Ear Aspect
			RelGY	Rank	StdDev				Root	Stem								
			%	Avg		d	cm	0-1	%	%	%	%	1-5	1-5	1-5	1-5	1-5	1-5
<b>Entries with anthesis dates between 64 and 66 days</b>																		
16	CZH0524	CIMMYT	112	13	10	64.9	198.9	0.45	2.8	3.5	10.3	7.8	1.5	1.9	1.9	2.7	1.3	2.1
12	CZH03005	CIMMYT	107	15	8	66.4	190.3	0.48	5.6	2.3	7.3	3.0	2.0	2.0	2.3	2.3	1.7	2.3
29	SC411	SeedCo	103	16	8	65.3	202.4	0.49	11.8	1.8	16.6	4.4	1.8	2.3	1.9	3.2	2.0	2.7
13	CZH04003	CIMMYT	102	19	10	66.1	179.7	0.43	3.9	2.0	4.8	6.3	2.2	1.7	2.0	2.6	2.2	2.4
17	CZH0525	CIMMYT	101	19	10	65.2	187.5	0.43	4.8	5.7	7.9	2.6	2.1	2.2	2.1	2.3	1.5	2.3
10	CZH04002	CIMMYT	98	20	9	63.7	181.2	0.44	2.7	3.9	6.3	4.0	2.2	2.1	2.1	1.9	1.4	2.1
23	CZH0531	CIMMYT	98	21	10	65.0	173.3	0.48	5.0	2.4	1.1	0.9	3.3	1.7	2.0	1.7	1.2	1.9
30	SC525	SeedCo	93	22	10	66.0	193.4	0.49	7.1	7.1	6.7	2.7	2.4	2.1	2.5	2.7	2.5	2.4
4	CZH0520	CIMMYT	90	23	10	65.8	178.7	0.45	4.1	5.9	3.6	5.4	2.4	2.2	2.2	2.4	1.7	2.4
20	CZH0528	CIMMYT	90	24	8	64.4	194.6	0.47	3.5	4.1	4.1	1.3	2.4	2.1	2.1	2.4	1.9	2.3
24	CZH0532	CIMMYT	90	24	8	65.2	170.0	0.46	4.7	5.3	3.6	3.8	2.1	2.0	2.1	1.9	1.5	1.9
28	SC403	SeedCo	87	24	10	64.5	194.9	0.45	8.0	3.0	5.5	3.0	2.2	2.0	1.9	2.4	1.8	2.5
Maturity group average			98	20	9	65.2	187.1	0.46	5.3	3.9	6.5	3.8	2.2	2.0	2.1	2.4	1.7	2.3
<b>Entries with anthesis dates between 67 and 69 days</b>																		
31	SC527Q	SeedCo	111	11	10	69.4	194.7	0.47	5.3	10.6	7.6	2.9	2.3	2.4	1.9	3.1	1.4	2.5
3	CZH04032	CIMMYT	113	12	8	68.5	193.8	0.51	2.3	2.7	9.5	4.8	1.5	2.4	1.5	2.4	2.2	2.3
25	CZH0533	CIMMYT	110	13	9	69.0	205.2	0.48	5.0	3.5	4.7	2.2	1.9	2.1	2.0	2.4	1.8	2.3
18	CZH0526	CIMMYT	109	13	7	68.7	206.9	0.50	1.6	3.3	1.1	1.2	1.8	1.9	1.9	1.7	1.5	1.8
5	CZH0521	CIMMYT	108	13	9	69.4	206.6	0.52	4.0	7.1	7.8	4.9	1.8	2.1	1.8	2.4	2.3	2.4
11	CZH04005	CIMMYT	106	14	9	68.2	199.0	0.52	3.3	8.1	2.2	4.1	2.1	1.9	2.1	2.6	1.5	2.0
1	CZH04034	CIMMYT	106	14	10	69.4	204.5	0.53	1.8	10.3	5.2	6.9	1.6	1.8	1.9	2.6	1.9	2.5
32	SC633	SeedCo	103	15	11	68.8	202.9	0.47	7.9	2.4	14.1	3.9	1.9	2.2	2.1	3.8	2.0	2.5
22	CZH0530	CIMMYT	106	16	9	67.3	193.2	0.48	5.4	4.3	1.8	2.6	1.9	2.0	1.8	2.3	1.7	2.4
15	CZH0535	CIMMYT	104	16	9	68.2	198.5	0.48	4.6	3.1	9.0	2.2	2.2	1.9	1.8	2.7	1.3	2.4
19	CZH0527	CIMMYT	104	16	9	67.9	196.2	0.49	3.7	2.6	4.9	3.1	2.0	1.8	2.1	2.1	1.8	2.1
21	CZH0529	CIMMYT	103	17	11	67.3	204.9	0.47	2.0	2.8	4.9	2.3	2.5	2.0	2.0	2.5	2.3	2.1
14	CZH0534	CIMMYT	102	17	11	68.4	201.2	0.50	5.7	3.3	4.1	3.4	2.3	1.8	2.2	2.3	1.5	2.0
6	CZH0522	CIMMYT	101	18	8	68.0	208.2	0.50	4.1	3.6	8.1	3.2	1.8	2.3	1.8	2.4	1.7	2.5
7	CZH0523	CIMMYT	96	20	8	68.3	200.9	0.50	2.9	4.9	11.9	7.1	2.2	2.2	2.2	2.5	1.5	2.4
9	CZH04001	CIMMYT	94	21	9	67.2	191.3	0.52	3.2	7.7	3.1	2.8	2.2	2.3	2.1	2.3	1.5	2.3
2	CZH04035	CIMMYT	93	21	11	68.9	201.6	0.50	6.7	5.3	4.8	5.7	2.0	1.9	2.1	2.7	1.7	2.5
27	PHB30B50	Pioneer	86	22	12	66.7	197.9	0.47	7.9	6.7	10.5	4.0	1.8	1.7	2.4	3.1	2.7	2.4
34	Local Check1	Various	89	23	9	68.0	200.6	0.49	3.5	2.4	6.8	2.7	2.0	1.9	2.2	2.5	1.8	2.3
35	Local Check2	Various	88	23	11	68.2	199.4	0.49	6.6	3.8	7.3	5.6	1.8	2.0	2.3	2.6	1.6	2.2
Maturity group average			102	17	9	68.3	200.4	0.50	4.4	4.9	6.5	3.8	2.0	2.0	2.0	2.5	1.8	2.3
<b>Entries with anthesis dates greater than 70 days</b>																		
8	CZH0536	CIMMYT	110	13	9	70.3	208.1	0.49	3.2	7.0	6.8	6.6	1.6	2.1	1.9	2.4	2.2	2.4
26	WH403	Western Seed	99	18	10	70.2	208.1	0.48	2.9	3.8	4.4	2.7	1.8	1.8	1.8	2.4	2.2	2.0
33	CZH0537	CIMMYT	87	25	7	70.8	196.7	0.49	2.3	5.8	5.0	6.8	2.2	2.1	2.0	2.3	1.6	2.5
Maturity group average			99	19	9	70.4	204.3	0.49	2.8	5.5	5.4	5.4	1.9	2.0	1.9	2.4	2.0	2.3
<b>Mean</b>			<b>100</b>	<b>18</b>	<b>9</b>	<b>67.4</b>	<b>196.2</b>	<b>0.48</b>	<b>4.6</b>	<b>4.6</b>	<b>6.4</b>	<b>3.9</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.5</b>	<b>1.8</b>	<b>2.3</b>
<b>LSD (0.05)</b>			<b>8</b>	<b>4</b>	<b>1</b>	<b>0.5</b>	<b>4.1</b>	<b>0.01</b>	<b>3.0</b>	<b>2.5</b>	<b>5.3</b>	<b>2.3</b>	<b>0.3</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.4</b>	<b>0.2</b>
<b>Min</b>			<b>86</b>	<b>11</b>	<b>7</b>	<b>63.7</b>	<b>170.0</b>	<b>0.43</b>	<b>1.6</b>	<b>1.8</b>	<b>1.1</b>	<b>0.9</b>	<b>1.5</b>	<b>1.7</b>	<b>1.5</b>	<b>1.7</b>	<b>1.2</b>	<b>1.8</b>
<b>Max</b>			<b>113</b>	<b>25</b>	<b>12</b>	<b>70.8</b>	<b>208.2</b>	<b>0.53</b>	<b>11.8</b>	<b>10.6</b>	<b>16.6</b>	<b>7.8</b>	<b>3.3</b>	<b>2.4</b>	<b>2.5</b>	<b>3.8</b>	<b>2.7</b>	<b>2.7</b>
NumSignificantSites			29	29	29	26	30	27	7	9	3	6	4	9	10	10	4	4



ILHYB06: Results of evaluation of intermediate and late maturing hybrids from CIMMYT, Seedco, Pioneer, Panmar and Western Seed across 30 sites in eastern and southern Africa, 2005/06. Individual sites results on pages 41-44 (Tables 5C-F). (Colour legend on page 3).

Table 5A

Entry	Name	Pedigree	Origin	Comments	RelGY	Across	Mid Alt humid						Lowland Tropical			Managed Stress		Anth Date
							Warm		Hot		Mid Alt		Humid			N Stress	Low pH	
							A	B	A	B	Dry	C	D	E				
							µha	µha	µha	µha	µha	µha	µha	µha	µha	µha	µha	
Entries with anthesis dates between 68 and 70 days																		
3	CZH04007	CML489/CML444/CZL04006	CIMMYT	Non-OPM Hybrid	117	9	7.9	6.7	5.1	4.9	3.5	3.3	3.3	1.4	68.9			
9	CZH0511	CML444/CML445/CZL054	CIMMYT	Non-OPM Hybrid	119	9	7.9	7.7	4.9	5.3	3.6	2.6	1.1	69.8				
19	SC635	SC635	SeedCo	Non-OPM Hybrid	113	9	8.0	6.8	4.9	5.9	3.3	3.4	0.9	69.4				
7	CZH055	CML312/CML444/CZL04006	CIMMYT	Non-OPM Hybrid	117	10	8.0	7.0	5.1	5.0	2.9	3.4	1.1	69.3				
5	CZH052	CML312/CML444/CZL03007	CIMMYT	Non-OPM Hybrid	111	11	7.3	6.8	4.9	4.0	4.3	2.7	0.8	68.6				
8	CZH059	CML442/CML445/CZL052	CIMMYT	Non-OPM Hybrid	111	12	7.2	7.0	4.8	4.6	3.4	2.9	1.0	67.5				
4	CZH056	CML312/CML444/CML489	CIMMYT	Non-OPM Hybrid	110	12	7.4	7.0	4.7	4.2	2.4	3.8	0.9	70.1				
29	PAN157	PAN157	Panmar	Non-OPM Hybrid	114	12	7.5	6.3	5.1	5.3	3.7	2.8	1.2	68.8				
27	PHB30V53	PHB30V53	Pioneer	Non-OPM Hybrid	106	13	7.3	6.4	5.1	4.3	2.9	3.3	0.6	70.4				
6	CZH054	CML312/CML443/CZL052	CIMMYT	Non-OPM Hybrid	108	14	7.3	6.8	4.5	4.2	3.2	3.2	0.7	68.9				
2	CZH04006	CZL04005/CML445/CML312	CIMMYT	Non-OPM Hybrid	106	14	7.0	6.6	4.3	3.8	2.8	3.5	1.0	69.9				
18	WH502	WH502	Western Seed	Non-OPM Hybrid	98	17	7.3	6.3	4.1	3.9	2.8	2.5	0.5	70.4				
1	CZH00025	CML440/CML444/CML445	CIMMYT	Non-OPM Hybrid	99	18	6.6	6.3	4.4	4.6	3.3	2.5	0.9	68.3				
30	PAN177	PAN177	Panmar	Non-OPM Hybrid	97	19	6.5	5.5	4.1	4.0	3.0	2.8	1.6	69.5				
32	Local Check	Local Check	Various	Local Check	94	19	6.5	5.9	4.5	2.8	3.2	2.7	0.9	70.0				
24	PHB30R73	PHB30R73	Pioneer	Non-OPM Hybrid	91	20	6.6	5.0	4.1	4.3	2.3	2.2	1.1	70.1				
23	PHB30G97	PHB30G97	Pioneer	Non-OPM Hybrid	93	20	6.5	5.7	3.9	4.0	2.2	2.2	1.1	70.4				
10	CZH04022	CML144/CML159/CZL04013	CIMMYT	OPM Hybrid	90	21	6.6	5.0	4.3	3.9	3.3	2.8	0.7	69.6				
31	PAN16M55	PAN16M55	Panmar	Non-OPM Hybrid	93	21	6.1	5.3	3.9	4.0	3.9	2.5	0.9	69.9				
16	CZH0519	CML144/CZL0510/CZL0511	CIMMYT	OPM Hybrid	88	22	6.5	5.6	4.2	3.0	2.2	2.5	0.4	68.8				
22	PHB3253	PHB3253	Pioneer	Non-OPM Hybrid	85	23	6.5	4.8	4.1	3.3	2.0	2.2	1.3	69.1				
Maturity group average																		
Entries with anthesis dates greater than 70 days																		
21	SC719	SC719	SeedCo	Non-OPM Hybrid	126	7	8.4	8.2	5.1	6.4	3.5	3.9	1.4	73.1				
20	SC637	SC637	SeedCo	Non-OPM Hybrid	109	12	7.9	6.9	4.8	3.8	3.5	2.6	1.0	72.0				
28	PAN153	PAN153	Panmar	Non-OPM Hybrid	99	15	7.1	6.9	4.6	4.4	1.5	2.9	0.9	71.7				
25	PHB30H83	PHB30H83	Pioneer	Non-OPM Hybrid	100	16	6.6	5.4	4.1	5.5	3.1	2.7	1.2	71.8				
17	WH505	WH505	Western Seed	Non-OPM Hybrid	98	17	6.6	6.4	4.6	4.3	3.4	2.7	0.9	72.1				
11	CZH0513	CML144/CML159/CZL057	CIMMYT	OPM Hybrid	94	19	6.6	6.1	4.3	3.4	4.1	2.6	0.5	71.8				
12	CZH0514	CML144/CML159/CZL058	CIMMYT	OPM Hybrid	93	20	6.7	6.1	3.9	3.5	3.4	2.8	0.3	71.6				
14	CZH0517	CML144/CZL0510/CZL03018	CIMMYT	OPM Hybrid	93	20	6.8	6.0	4.4	3.0	2.8	2.5	0.4	70.9				
26	PHB30G19	PHB30G19	Pioneer	Non-OPM Hybrid	85	23	6.6	5.6	3.6	3.3	1.9	2.2	0.8	71.4				
15	CZH0518	CML144/CZL0510/CZL059	CIMMYT	OPM Hybrid	73	27	5.9	5.0	3.7	2.1	1.8	2.2	0.5	73.9				
13	CZH0515	CML144/CML159/CZL059	CIMMYT	OPM Hybrid	71	27	5.8	4.8	3.7	2.6	1.5	2.3	0.3	73.8				
Maturity group average																		
Mean																		
LSD (0.05)																		
Min																		
Max																		
NumSignificantSites																		

**ILHYB06: Results of evaluation of intermediate and late maturing hybrids from CIMMYT, Seedco, Pioneer, Panmar and Western Seed across 30 sites in eastern and southern Africa, 2005/06. Individual sites results on pages 41-44 (Table 5C-5F). (Colour legend on page 3).**

**Table 5B**

Entry	Name	Pedigree	Origin	Comments	RelGY	Across		Ear	Plant	Anth	Date	Height	Position	Lodging		Husk	Ear	GLS	P.sorg	E.turc	Grain	MSV	Ear	Plant
						Avg	StdDev							Root	Stem									
<b>Entries with anthesis dates between 68 and 70 days</b>																								
3	CZH04007	CML489/CML444/CZL04006	CIMMYT	Non-OPM Hybrid	117	9	5	0.47	205.8	68.9	205.8	0.47	0.47	3.4	5.8	9.9	4.1	1.7	1.9	2.5	3.1	1.8	2.7	3.0
9	CZH0511	CML444/CML445/CZL054	CIMMYT	Non-OPM Hybrid	119	9	8	0.47	202.3	69.8	202.3	0.47	0.47	2.8	12.3	3.4	3.4	2.1	2.0	2.2	3.2	1.5	2.5	2.3
19	SC635	SC635	SeedCo	Non-OPM Hybrid	113	9	7	0.51	210.8	69.4	210.8	0.51	0.51	9.0	9.3	5.2	2.9	2.0	2.6	2.5	3.8	1.7	2.8	3.0
7	CZH055	CML312/CML444/CZL04006	CIMMYT	Non-OPM Hybrid	117	10	7	0.48	206.5	69.3	206.5	0.48	0.47	3.2	5.3	3.3	2.2	1.7	2.2	2.4	3.1	2.2	2.3	2.7
5	CZH052	CML312/CML444/CZL03007	CIMMYT	Non-OPM Hybrid	111	11	8	0.48	208.6	68.6	208.6	0.48	0.47	7.0	18.0	3.8	1.9	1.6	2.2	2.4	2.4	1.9	2.2	2.5
8	CZH059	CML442/CML445/CZL052	CIMMYT	Non-OPM Hybrid	111	12	7	0.47	200.5	67.5	200.5	0.47	0.47	4.9	13.5	3.1	2.7	1.8	1.9	2.4	3.4	1.6	2.3	2.6
4	CZH056	CML312/CML444/CML489	CIMMYT	Non-OPM Hybrid	110	12	7	0.46	205.3	70.1	205.3	0.46	0.46	4.3	4.7	3.6	1.5	1.4	1.6	2.0	2.9	1.9	2.3	2.3
29	PAN 57	PAN57	Panmar	Non-OPM Hybrid	114	12	8	0.48	202.9	68.8	202.9	0.48	0.46	5.6	6.7	5.7	1.8	2.0	2.2	2.3	2.5	1.7	2.6	3.4
27	PHB30V53	PHB30V53	Pioneer	Non-OPM Hybrid	106	13	8	0.46	220.7	70.4	220.7	0.46	0.48	6.2	7.9	3.3	2.7	1.5	2.0	2.0	2.8	1.5	2.2	2.3
6	CZH054	CML312/CML443/CZL052	CIMMYT	Non-OPM Hybrid	108	14	8	0.49	199.2	68.9	199.2	0.49	0.49	5.5	11.0	3.6	2.0	1.8	2.0	2.1	2.8	1.7	2.3	2.7
2	CZH04006	CZL04005/CML445/CML312	CIMMYT	Non-OPM Hybrid	106	14	7	0.45	208.1	69.9	208.1	0.45	0.45	3.3	4.3	3.6	2.5	2.0	1.8	1.9	2.7	2.1	2.4	2.7
18	WH502	WH502	Western Seed	Non-OPM Hybrid	98	17	8	0.50	209.4	70.4	209.4	0.50	0.47	3.1	8.3	6.8	3.8	2.5	2.7	2.4	4.0	1.4	2.8	2.9
1	CZH0025	CML440/CML444/CML445	CIMMYT	Non-OPM Hybrid	99	18	8	0.47	192.9	68.3	192.9	0.47	0.47	5.7	6.4	4.5	2.5	1.7	1.9	2.7	2.6	1.7	2.5	2.7
30	PAN 77	PAN 77	Panmar	Non-OPM Hybrid	97	19	8	0.49	210.7	70.0	210.7	0.49	0.49	7.4	9.6	4.2	3.6	1.9	2.2	2.3	2.7	1.9	2.5	3.4
32	Local Check	Local Check	Various	Local Check	94	19	9	0.49	210.7	70.0	210.7	0.49	0.49	7.4	9.6	4.2	3.6	1.9	2.2	2.3	2.7	1.9	2.5	3.1
24	PHB30R73	PHB30R73	Pioneer	Non-OPM Hybrid	91	20	9	0.48	186.1	70.1	186.1	0.48	0.48	6.4	8.2	3.8	1.9	1.9	2.2	2.4	2.9	3.3	2.2	3.2
23	PHB30G97	PHB30G97	Pioneer	Non-OPM Hybrid	93	20	7	0.48	200.5	70.4	200.5	0.48	0.48	5.7	8.9	3.2	2.1	1.7	2.2	2.4	3.0	2.3	2.4	3.6
10	CZH04022	CML144/CML159/CZL04013	CIMMYT	OPM Hybrid	90	21	8	0.47	198.6	69.6	198.6	0.47	0.47	10.3	15.4	3.8	3.9	2.2	2.0	2.4	3.4	1.9	2.6	3.4
31	PAN 6M-55	PAN 6M-55	Panmar	Non-OPM Hybrid	93	21	8	0.49	185.2	69.9	185.2	0.49	0.49	11.8	7.8	5.8	3.2	2.3	2.5	2.4	3.4	2.3	2.9	3.3
16	CZH0519	CML144/CZL0510/CZL0511	CIMMYT	OPM Hybrid	88	22	7	0.47	196.6	68.8	196.6	0.47	0.47	11.5	16.3	3.9	3.0	2.6	2.3	2.5	1.9	1.4	2.3	3.0
22	PHB3253	PHB3253	Pioneer	Non-OPM Hybrid	85	23	9	0.47	203.1	69.1	203.1	0.47	0.47	16.8	10.3	6.4	3.1	3.1	2.6	2.3	3.1	2.6	2.6	3.4
Maturity group average																								
<b>Entries with anthesis dates greater than 70 days</b>																								
21	SC719	SC719	SeedCo	Non-OPM Hybrid	126	7	8	0.54	237.0	73.1	237.0	0.54	0.54	0.7	4.6	2.9	2.6	1.5	2.0	2.1	3.4	1.5	2.3	2.5
20	SC637	SC637	SeedCo	Non-OPM Hybrid	109	12	10	0.49	224.2	72.0	224.2	0.49	0.49	1.8	3.3	5.4	4.6	2.0	2.4	2.0	2.7	1.4	2.1	2.2
28	PAN 53	PAN 53	Panmar	Non-OPM Hybrid	99	15	8	0.47	212.3	71.7	212.3	0.47	0.47	3.5	8.9	5.2	1.6	1.9	2.0	2.0	2.8	1.9	2.1	2.6
25	PHB30H83	PHB30H83	Pioneer	Non-OPM Hybrid	100	16	11	0.47	209.6	71.8	209.6	0.47	0.47	4.6	2.8	12.9	11.1	1.9	2.2	2.2	3.0	3.1	2.4	3.2
17	WH505	WH505	Western Seed	Non-OPM Hybrid	98	17	7	0.47	214.0	72.1	214.0	0.47	0.47	4.1	6.8	5.1	2.5	1.9	2.3	2.3	3.4	2.0	2.3	2.8
11	CZH0513	CML144/CML159/CZL057	CIMMYT	OPM Hybrid	94	19	7	0.47	205.0	71.8	205.0	0.47	0.47	10.8	28.6	3.9	3.5	1.6	1.8	2.4	2.2	2.0	2.5	3.3
12	CZH0514	CML144/CML159/CZL058	CIMMYT	OPM Hybrid	93	20	7	0.47	210.8	71.6	210.8	0.47	0.47	5.7	24.7	5.8	2.7	1.9	2.0	2.3	1.9	2.3	2.3	3.1
14	CZH0517	CML144/CZL0510/CZL03018	CIMMYT	OPM Hybrid	93	20	7	0.45	197.7	70.9	197.7	0.45	0.45	7.7	9.7	3.9	2.9	1.7	2.0	2.0	2.2	1.5	2.4	3.0
26	PHB30G19	PHB30G19	Pioneer	Non-OPM Hybrid	85	23	6	0.48	217.1	71.4	217.1	0.48	0.48	8.2	7.6	6.3	3.9	2.1	2.3	2.4	2.4	1.7	2.5	3.0
15	CZH0518	CML144/CZL0510/CZL059	CIMMYT	OPM Hybrid	73	27	5	0.49	200.2	73.9	200.2	0.49	0.49	11.2	26.6	4.4	2.6	1.6	1.8	2.4	2.0	1.8	2.7	3.6
13	CZH0515	CML144/CML159/CZL059	CIMMYT	OPM Hybrid	71	27	6	0.47	203.0	73.8	203.0	0.47	0.47	12.7	22.0	3.1	3.0	1.6	1.8	2.1	1.9	2.2	2.7	3.3
Maturity group average																								
Mean					100	17	8	0.48	212.1	72.2	212.1	0.48	0.48	6.5	13.2	5.4	3.7	1.8	2.1	2.2	2.6	2.0	2.4	3.0
LSD (0.05)					13	5	1	0.02	3.9	0.5	3.9	0.02	0.02	3.2	4.4	2.7	2.0	0.2	0.2	0.2	0.2	0.3	0.3	0.6
Min					71	7	5	0.45	185.2	67.5	185.2	0.45	0.45	0.7	7.8	2.9	1.5	1.4	1.6	1.9	1.9	1.4	2.1	2.2
Max					126	27	11	0.54	237.0	73.9	237.0	0.54	0.54	16.8	28.6	12.9	11.1	3.1	2.7	2.7	4.0	3.3	2.9	3.6
NumSignificantSites					30	30	30	15	29	29	29	15	15	10	10	5	5	10	7	8	10	4	6	1

## 6. Individual Site Results

### REGPOP06

REGPOP06: Results of evaluation of early, intermediate and late maturing OPVs from CIMMYT, Western Seed, Pannar and Nelson Genetics across 35 sites in eastern and southern Africa, 2005/06. Table 3C

Entry	Name	Mid Altitude East Africa - Grain Yields								Mid Altitude Humid Warm (Zone A) - Grain Yields							
		Across		Across		Eth		Bungoma Ken		Across		Chitedze Mal		Bvumbwe Mal			
		RelGY	Rank	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo
		%	Avg	StdDev	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	
<b>Entries with anthesis dates less than 60 days</b>																	
36	WS103	60	36	7	2.2	33	2.2	40	2.2	26	3.2	36	3.4	40	3.0	40	
Maturity group average		60	36	7	2.2	33	2.2	40	2.2	26	3.2	36	3.4	40	3.0	40	
<b>Entries with anthesis dates between 60 and 62 days</b>																	
5	ZM309	104	19	10	4.1	15	5.3	21	2.8	9	5.0	20	5.8	20	3.6	38	
12	VP05181	104	20	10	3.6	23	4.6	34	2.7	11	5.1	20	5.5	26	4.0	31	
4	VP041	101	21	10	3.5	25	4.6	33	2.4	17	4.9	23	5.6	23	3.5	39	
1	ZM307	100	22	9	3.4	30	4.7	32	2.1	27	4.9	25	5.3	29	4.4	22	
10	VP05179	100	23	11	3.5	23	4.1	38	2.9	7	5.2	20	6.2	12	4.4	23	
17	VP05149	96	23	9	3.9	20	5.1	24	2.6	15	4.8	24	5.4	27	4.1	27	
2	ZM305	91	26	9	3.4	28	4.7	31	2.2	24	4.5	27	4.7	35	4.0	30	
11	VP05180	87	28	9	3.3	29	4.5	37	2.2	21	4.4	31	4.3	38	4.0	29	
27	VP051	75	34	8	2.5	40	3.7	39	1.4	40	3.9	34	4.5	37	3.9	34	
Maturity group average		95	24	9	3.5	26	4.6	32	2.4	19	4.8	25	5.3	27	4.0	30	
<b>Entries with anthesis dates between 63 and 66 days</b>																	
8	O2SADVE	120	9	7	4.9	6	6.5	10	3.3	2	6.0	8	6.6	9	5.9	2	
7	ZM523	118	10	7	5.3	5	7.5	3	3.0	6	6.2	4	6.7	6	5.7	5	
3	ZM401	104	18	9	4.3	17	6.4	12	2.2	22	5.5	12	5.9	14	4.2	26	
20	ZM501	102	19	9	3.6	26	5.2	23	2.1	28	5.5	16	6.1	13	4.7	14	
6	ZM423	100	20	10	3.8	19	4.8	29	2.9	8	5.2	19	5.6	22	4.4	24	
18	VP05175	99	21	10	4.4	14	6.1	16	2.7	12	5.2	20	5.8	16	5.2	6	
15	VP05185	96	23	11	3.7	27	5.4	19	1.9	34	4.7	26	5.9	15	4.7	17	
13	VP05182	94	23	8	3.8	22	5.5	18	2.2	25	4.9	24	5.8	17	4.3	25	
14	VP05184	95	23	10	3.3	31	5.2	22	1.4	39	4.9	22	5.1	33	3.9	33	
39	Local Check1	94	23	13	4.3	22	7.0	8	1.7	36	4.5	30	3.9	39	3.7	37	
33	VP05195	93	23	9	3.5	27	4.8	30	2.2	23	5.3	17	5.6	24	4.9	10	
40	Local Check2	94	24	12	4.5	12	6.3	13	2.8	10	5.2	22	4.6	36	3.9	32	
32	VP05194	91	24	11	3.9	26	6.2	15	1.7	37	4.8	25	5.1	32	4.7	15	
16	VP05186	93	25	9	3.4	29	4.9	28	2.0	29	4.6	28	5.0	34	4.6	20	
28	VP05196	92	25	9	3.6	27	5.4	20	1.9	33	4.8	22	5.2	31	4.8	11	
37	WS 909	90	26	9	3.1	36	4.5	36	1.7	35	4.6	27	5.2	30	4.8	12	
30	VP05198	86	28	9	3.3	33	4.9	27	1.6	38	4.5	28	5.8	18	4.1	28	
29	VP05197	87	28	9	3.5	29	5.0	25	1.9	32	4.9	26	5.4	28	4.7	13	
Maturity group average		98	19	10	5.3	17	6.9	16	3.9	20	6.8	18	7.0	18	5.9	17	
<b>Entries with anthesis dates greater than 66 days</b>																	
25	O4SADVL	129	8	8	4.9	7	6.8	9	3.0	5	6.0	10	7.7	2	5.8	3	
23	ZM721	120	10	8	5.0	16	8.1	1	2.0	30	5.7	11	6.5	10	6.3	1	
22	ZM625	119	10	10	5.0	9	7.3	4	2.7	13	5.7	12	6.6	7	5.7	4	
24	ZM623	118	11	10	5.2	4	7.2	5	3.2	3	6.2	7	6.9	5	5.0	8	
38	SC513	117	11	9	5.2	5	7.2	6	3.1	4	5.9	10	7.0	4	4.9	9	
21	98SADVI	114	12	7	4.3	16	6.5	11	2.2	20	5.4	14	5.8	19	4.7	16	
34	Afric1	108	15	11	5.1	10	7.9	2	2.3	18	5.7	17	8.2	1	5.2	7	
26	O4WEEVIL	113	15	10	5.2	8	6.3	14	4.1	1	5.5	15	6.5	11	4.6	19	
19	VP045	107	16	11	4.6	13	7.0	7	2.3	19	5.6	15	7.2	3	4.5	21	
35	PAN11	99	21	10	3.7	21	5.0	26	2.5	16	5.2	20	5.7	21	3.8	35	
9	O4SADVE	105	21	12	4.2	16	5.6	17	2.7	14	5.1	23	6.6	8	4.6	18	
31	VP052	85	27	11	3.2	33	4.5	35	2.0	31	4.7	30	5.5	25	3.7	36	
Maturity group average		111	15	10	4.6	13	6.6	11	2.7	15	5.6	15	6.7	10	4.9	15	
Mean		100	20	9	3.99	21	5.60	21	2.37	21	5.10	21	5.76	21	4.54	21	
LSD (0.05)		14	7	1	0.83	10	1.43	12	0.85	12	0.55	8	1.67	12	1.12	12	
Min		60	8	7	2.16	4	2.17	1	1.38	1	3.21	4	3.35	1	2.96	1	
Max		129	36	13	5.26	40	8.08	40	4.14	40	6.21	36	8.22	40	6.31	40	
NumSignificantSites		35	35	35	2	2	1	1	6	6	1	1					

REGPOP06: Results of evaluation of early, intermediate and late maturing OPVs from CIMMYT, Western Seed, Pannar and Nelson Genetics across 35 sites in eastern and southern Africa, 2005/06. Table 3D

Mid Altitude Humid Warm (Zone A) - Grain Yields																
Entry	Name	Across			Across		Ukiriguru Tan		Mount Makulu Zam		Gwebi Zim		ART Farm Harare Zim		Zamseed Farm Zam	
		RelGY	Rank	StdDev	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo
		%	Avg	StdDev	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#
<b>Entries with anthesis dates less than 60 days</b>																
	36 WS103	60	36	7	3.2	36	1.6	15	4.1	40	7.1	40	5.4	40	1.8	40
	Maturity group average	60	36	7	3.2	36	1.6	15	4.1	40	7.1	40	5.4	40	1.8	40
<b>Entries with anthesis dates between 60 and 62 days</b>																
	5 ZM309	104	19	10	5.0	20	2.3	2	5.4	32	10.5	4	8.2	13	5.0	14
	12 VP05181	104	20	10	5.1	20	1.7	12	7.4	6	9.2	22	7.9	19	4.4	28
	4 VP041	101	21	10	4.9	23	2.0	3	5.7	29	8.5	32	8.0	17	4.5	25
	1 ZM307	100	22	9	4.9	25	1.3	27	6.7	16	9.4	18	6.8	35	4.8	20
	10 VP05179	100	23	11	5.2	20	2.5	1	6.3	22	8.2	35	7.6	27	4.1	32
	17 VP05149	96	23	9	4.8	24	1.6	16	6.7	18	8.2	36	6.0	37	4.8	21
	2 ZM305	91	26	9	4.5	27	1.9	5	5.1	35	10.3	9	6.6	36	4.8	18
	11 VP05180	87	28	9	4.4	31	1.3	29	5.4	33	8.4	33	7.7	22	3.7	36
	27 VP051	75	34	8	3.9	34	1.6	18	4.7	39	9.3	21	5.6	39	3.2	38
	Maturity group average	95	24	9	4.8	25	1.8	13	5.9	26	9.1	23	7.1	27	4.4	26
<b>Entries with anthesis dates between 63 and 66 days</b>																
	8 02SADVE	120	9	7	6.0	8	1.6	17	7.0	10	9.2	23	9.1	6	5.7	5
	7 ZM523	118	10	7	6.2	4	1.9	4	7.2	7	8.7	29	9.6	1	6.0	3
	3 ZM401	104	18	9	5.5	12	1.8	8	8.0	2	9.7	12	7.9	18	5.4	6
	20 ZM501	102	19	9	5.5	16	1.2	34	6.4	20	9.5	16	9.2	4	5.2	9
	6 ZM423	100	20	10	5.2	19	1.6	13	6.7	17	9.6	13	8.4	10	4.3	29
	18 VP05175	99	21	10	5.2	20	1.3	33	6.4	21	9.3	19	8.3	11	4.0	34
	15 VP05185	96	23	11	4.7	26	1.5	19	4.9	38	8.5	31	6.9	33	4.1	33
	13 VP05182	94	23	8	4.9	24	1.5	20	5.7	28	9.5	15	7.2	31	4.7	22
	14 VP05184	95	23	10	4.9	22	1.9	6	5.7	30	10.1	10	7.9	21	5.2	11
	39 Local Check1	94	23	13	4.5	30	1.1	39	5.9	26	10.7	1	8.5	9	4.1	31
	33 VP05195	93	23	9	5.3	17	1.7	11	6.9	13	10.7	3	8.0	16	4.5	26
	40 Local Check2	94	24	12	5.2	22	1.3	32	6.7	15	9.0	25	9.5	2	5.0	12
	32 VP05194	91	24	11	4.8	25	1.3	31	5.5	31	9.3	20	7.3	29	5.0	13
	16 VP05186	93	25	9	4.6	28	1.4	26	5.0	37	10.7	2	7.7	23	4.1	30
	28 VP05196	92	25	9	4.8	22	1.8	10	6.5	19	9.4	17	5.7	38	4.6	24
	37 WS 909	90	26	9	4.6	27	1.4	24	5.1	36	8.8	28	6.9	34	4.5	27
	30 VP05198	86	28	9	4.5	28	1.4	23	5.2	34	7.9	39	7.4	28	2.8	39
	29 VP05197	87	28	9	4.9	26	1.2	35	5.8	27	10.5	5	7.2	30	4.7	23
	Maturity group average	98	19	10	6.8	18	3.5	23	7.3	18	9.6	19	8.8	18	5.4	18
<b>Entries with anthesis dates greater than 66 days</b>																
	25 04SADVL	129	8	8	6.0	10	1.9	7	8.0	3	8.0	37	7.6	25	4.8	17
	23 ZM721	120	10	8	5.7	11	1.6	14	6.1	24	10.0	11	8.0	15	5.9	4
	22 ZM625	119	10	10	5.7	12	1.3	28	7.0	11	9.6	14	8.3	12	5.3	7
	24 ZM623	118	11	10	6.2	7	1.5	21	7.8	4	10.4	6	9.1	5	6.7	1
	38 SC513	117	11	9	5.9	10	1.5	22	8.3	1	10.3	8	8.7	8	5.0	15
	21 98SADVI	114	12	7	5.4	14	1.8	9	5.9	25	9.1	24	8.9	7	5.3	8
	34 Afric1	108	15	11	5.7	17	1.1	36	7.5	5	8.3	34	7.0	32	4.8	19
	26 04WEEVIL	113	15	10	5.5	15	1.4	25	7.1	9	8.9	27	7.6	26	6.2	2
	19 VP045	107	16	11	5.6	15	0.8	40	7.2	8	10.3	7	9.2	3	4.9	16
	35 PAN11	99	21	10	5.2	20	1.3	30	6.9	12	9.0	26	8.0	14	5.2	10
	9 04SADVE	105	21	12	5.1	23	1.1	38	6.8	14	7.9	38	7.9	20	3.5	37
	31 VP052	85	27	11	4.7	30	1.1	37	6.2	23	8.6	30	7.7	24	3.9	35
	Maturity group average	111	15	10	5.6	15	1.4	26	7.1	12	9.2	22	8.2	16	5.1	14
	Mean	100	20	9	5.10	21	1.53	21	6.33	21	9.26	21	7.77	21	4.66	21
	LSD (0.05)	14	7	1	0.55	8	0.57	12	1.57	12	2.56	12	1.67	12	0.99	12
	Min	60	8	7	3.21	4	0.77	1	4.10	1	7.11	1	5.43	1	1.81	1
	Max	129	36	13	6.21	36	2.47	40	8.34	40	10.69	40	9.59	40	6.71	40
	NumSignificantSites	35	35	35	6	6	1	1	1	0	1	1	1	1	1	1



REGPOP06: Results of evaluation of early, intermediate and late maturing OPVs from CIMMYT, Western Seed, Pannar and Nelson Genetics across 35 sites in eastern and southern Africa, 2005/06.

Table 3E

Mid Altitude Humid Hot (Zone B) - Grain Yields																
Entry	Name	Across			Across		Chitala Mal		Weruweru Tan		Tumbi Tan		Angonia Moz		Sussundenga Moz	
		RelGY	Rank	StdDev	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo
		%	Avg	StdDev	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#
<b>Entries with anthesis dates less than 60 days</b>																
36	WS103	60	36	7	2.9	39	2.0	40	3.9	40	2.3	33	4.3	40	2.0	40
Maturity group average		60	36	7	2.9	39	2.0	40	3.9	40	2.3	33	4.3	40	2.0	40
<b>Entries with anthesis dates between 60 and 62 days</b>																
5	ZM309	104	19	10	4.5	21	4.1	22	6.2	18	2.2	36	7.0	12	3.2	19
12	VP05181	104	20	10	4.6	20	3.9	23	5.8	30	3.1	15	6.8	17	3.4	16
4	VP041	101	21	10	4.3	24	2.9	35	5.9	28	3.0	20	6.6	21	3.3	17
1	ZM307	100	22	9	4.3	28	3.9	25	5.8	29	2.4	31	6.4	23	2.8	33
10	VP05179	100	23	11	4.7	20	4.7	12	6.3	16	2.4	30	6.8	16	3.1	26
17	VP05149	96	23	9	4.4	24	4.2	21	5.3	37	3.0	19	5.9	28	3.4	13
2	ZM305	91	26	9	4.2	27	3.3	31	6.0	23	3.0	16	6.1	27	2.5	37
11	VP05180	87	28	9	4.0	27	3.5	28	6.0	24	2.5	28	5.0	37	3.2	20
27	VP051	75	34	8	3.3	38	2.6	38	5.0	39	1.8	40	4.6	39	2.7	36
Maturity group average		95	24	9	4.3	26	3.7	26	5.8	27	2.6	26	6.1	24	3.1	24
<b>Entries with anthesis dates between 63 and 66 days</b>																
8	O2SADVE	120	9	7	5.3	10	5.2	6	6.1	22	3.5	10	7.8	5	4.0	5
7	ZM523	118	10	7	5.4	10	5.7	2	7.1	9	3.2	12	8.0	4	3.1	23
3	ZM401	104	18	9	4.5	24	4.2	20	6.3	17	2.3	34	6.7	20	3.0	28
20	ZM501	102	19	9	5.2	11	5.4	4	6.8	12	3.1	14	7.3	9	3.4	15
6	ZM423	100	20	10	4.5	23	4.3	18	6.5	13	2.3	32	7.1	11	2.2	39
18	VP05175	99	21	10	4.6	20	4.2	19	6.1	19	2.9	22	6.7	19	3.1	22
15	VP05185	96	23	11	4.1	27	4.5	15	6.1	20	1.8	39	4.9	38	3.1	25
13	VP05182	94	23	8	4.7	19	4.6	14	6.5	14	3.0	17	6.2	26	3.1	24
14	VP05184	95	23	10	4.2	26	4.4	16	6.0	24	2.6	25	5.2	35	2.9	29
39	Local Check1	94	23	13	4.3	23	2.8	37	6.3	15	2.1	37	6.8	15	3.8	9
33	VP05195	93	23	9	4.2	28	3.7	27	5.8	32	3.0	18	5.9	30	2.7	35
40	Local Check2	94	24	12	4.1	27	3.2	33	5.0	38	2.5	29	6.2	25	3.7	10
32	VP05194	91	24	11	4.6	21	3.2	32	7.5	7	2.7	24	5.9	29	3.6	11
16	VP05186	93	25	9	4.4	27	5.0	11	5.8	33	2.1	38	5.8	31	3.2	21
28	VP05196	92	25	9	3.9	31	2.4	39	6.0	26	2.6	27	5.6	33	2.9	30
37	WS 909	90	26	9	4.2	28	3.5	30	5.4	36	2.6	26	6.8	18	2.8	31
30	VP05198	86	28	9	4.0	31	3.5	29	5.9	27	2.2	35	5.4	34	2.8	32
29	VP05197	87	28	9	4.0	28	2.9	36	5.8	31	2.7	23	5.0	36	3.4	14
Maturity group average		98	19	10	5.9	17	5.7	18	7.2	18	4.7	18	7.4	18	4.9	19
<b>Entries with anthesis dates greater than 66 days</b>																
25	O4SADVL	129	8	8	6.1	5	6.1	1	7.3	8	3.6	7	9.4	2	4.0	6
23	ZM721	120	10	8	5.5	8	5.1	8	8.2	2	3.5	9	7.3	8	3.5	12
22	ZM625	119	10	10	5.5	7	5.3	5	7.6	6	3.6	4	6.9	13	3.8	8
24	ZM623	118	11	10	6.1	3	5.5	3	8.0	3	4.6	1	7.7	6	4.9	1
38	SC513	117	11	9	6.1	5	5.0	9	7.6	5	3.5	8	9.7	1	4.6	3
21	98SADVI	114	12	7	5.5	7	4.6	13	8.2	1	3.6	5	7.2	10	3.9	7
34	Afric1	108	15	11	5.7	6	5.0	10	7.7	4	4.0	3	7.7	7	4.0	4
26	O4WEEVIL	113	15	10	4.8	20	3.8	26	6.1	21	2.9	21	8.4	3	3.0	27
19	VP045	107	16	11	5.5	9	5.2	7	7.0	10	3.5	11	6.9	14	4.8	2
35	PAN11	99	21	10	4.8	17	3.0	34	7.0	11	4.2	2	6.4	22	3.2	18
9	O4SADVE	105	21	12	4.4	24	4.3	17	5.6	35	3.6	6	6.3	24	2.4	38
31	VP052	85	27	11	4.3	27	3.9	24	5.7	34	3.2	13	5.7	32	2.8	34
Maturity group average		111	15	10	5.4	11	4.7	13	7.2	12	3.7	8	7.5	12	3.7	13
<b>Mean</b>		100	20	9	4.64	20	4.11	21	6.34	20	2.92	21	6.57	21	3.29	21
<b>LSD (0.05)</b>		14	7	1	0.50	9	1.27	12	1.12	12	1.05	12	1.12	12	1.06	12
<b>Min</b>		60	8	7	2.91	3	2.00	1	3.90	1	1.79	1	4.33	1	2.03	1
<b>Max</b>		129	36	13	6.14	39	6.09	40	8.22	40	4.59	40	9.69	40	4.88	40
<b>NumSignificantSites</b>		35	35	35	5	5	1	1	1	1	1	1	1	1	1	1

REGPOP06: Results of evaluation of early, intermediate and late maturing OPVs from CIMMYT, Western Seed, Pannar and Nelson Genetics across 35 sites in eastern and southern Africa, 2005/06.

Table 3F

Mid Altitude Dry (Zone C) - Grain Yields																
Entry	Name	Across			Across		Malkerns Swa		Baka Mal		Selian Tan		Arusha Tan		Maputo Moz	
		RelGY	Rank	StdDev	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo
		%	Avg	StdDev	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#
<b>Entries with anthesis dates less than 60 days</b>																
36	WS103	60	36	7	2.8	35	3.8	22	2.4	38	4.1	40	3.9	22	2.4	40
Maturity group average		60	36	7	2.8	35	3.8	22	2.4	38	4.1	40	3.9	22	2.4	40
<b>Entries with anthesis dates between 60 and 62 days</b>																
5	ZM309	104	19	10	3.7	23	4.1	19	4.3	13	5.8	26	4.3	7	3.0	27
12	VP05181	104	20	10	3.8	21	5.2	7	4.4	12	5.4	31	4.0	19	3.0	28
4	VP041	101	21	10	4.1	17	5.8	5	3.3	31	7.1	7	3.5	33	3.2	18
1	ZM307	100	22	9	3.7	21	3.6	27	3.7	21	6.3	18	4.2	13	2.9	30
10	VP05179	100	23	11	3.3	28	2.6	40	3.0	35	5.5	30	3.8	24	2.8	33
17	VP05149	96	23	9	3.4	27	2.9	36	3.4	29	6.0	23	4.1	17	3.4	12
2	ZM305	91	26	9	3.5	26	3.7	26	3.6	25	5.5	28	4.1	14	2.7	35
11	VP05180	87	28	9	3.5	26	4.9	12	3.8	20	5.3	34	3.5	32	3.6	6
27	VP051	75	34	8	3.0	35	3.4	30	2.4	39	5.4	33	3.0	40	2.9	29
Maturity group average		95	24	9	3.5	25	4.0	22	3.5	25	5.8	26	3.8	22	3.0	24
<b>Entries with anthesis dates between 63 and 66 days</b>																
8	O2SADVE	120	9	7	4.6	7	6.0	3	4.8	5	7.2	6	5.0	1	3.5	7
7	ZM523	118	10	7	4.5	8	4.9	13	4.9	4	8.2	2	4.3	9	3.4	14
3	ZM401	104	18	9	3.7	21	2.9	35	4.7	6	6.7	13	3.3	35	3.2	19
20	ZM501	102	19	9	4.0	18	4.9	10	4.3	15	7.0	9	4.2	12	2.6	36
6	ZM423	100	20	10	3.8	21	2.6	39	4.3	14	6.7	12	3.9	23	3.0	26
18	VP05175	99	21	10	3.5	25	2.9	34	3.5	27	6.5	15	4.4	6	2.5	37
15	VP05185	96	23	11	4.0	14	4.9	11	4.6	9	5.4	32	3.8	24	3.3	15
13	VP05182	94	23	8	3.5	23	3.3	32	2.6	37	6.0	22	4.4	5	3.6	5
14	VP05184	95	23	10	3.9	19	5.4	6	3.5	28	5.2	35	4.1	15	3.2	17
39	Local Check1	94	23	13	3.6	25	3.8	23	4.0	18	4.8	38	3.6	30	3.5	11
33	VP05195	93	23	9	3.6	23	4.6	14	3.3	30	5.9	25	3.4	34	3.2	16
40	Local Check2	94	24	12	3.2	26	2.7	38	1.7	40	4.8	39	3.7	27	3.5	8
32	VP05194	91	24	11	3.8	21	4.4	17	4.6	7	6.5	17	3.2	37	3.5	9
16	VP05186	93	25	9	3.3	30	3.5	29	3.8	19	5.5	29	3.1	38	2.7	34
28	VP05196	92	25	9	3.6	24	4.1	20	3.2	33	6.5	16	3.1	39	2.8	31
37	WS 909	90	26	9	3.5	26	3.8	24	4.1	16	4.8	37	4.0	20	2.8	32
30	VP05198	86	28	9	3.5	28	5.1	8	3.6	26	5.7	27	3.6	29	2.5	39
29	VP05197	87	28	9	3.4	26	4.2	18	3.0	34	6.1	20	3.3	36	3.2	20
Maturity group average		98	19	10	5.7	18	6.1	20	5.7	18	7.1	18	5.1	20	4.6	19
<b>Entries with anthesis dates greater than 66 days</b>																
25	O4SADVL	129	8	8	4.5	9	4.5	15	3.3	32	8.3	1	4.7	3	3.8	1
23	ZM721	120	10	8	4.3	11	4.5	16	4.6	8	7.3	5	4.0	21	3.1	23
22	ZM625	119	10	10	4.4	10	5.8	4	5.2	2	7.3	4	4.0	18	3.7	2
24	ZM623	118	11	10	4.1	14	3.8	25	4.4	11	6.8	11	4.9	2	3.0	24
38	SC513	117	11	9	4.4	13	3.9	21	6.9	1	6.2	19	3.7	28	3.6	4
21	98SADVI	114	12	7	3.9	15	3.5	28	3.6	23	6.1	21	4.2	11	3.7	3
34	Afric1	108	15	11	4.4	13	7.4	1	2.9	36	7.5	3	3.7	26	3.5	10
26	O4WEEVIL	113	15	10	3.8	19	3.4	31	4.5	10	6.6	14	4.3	10	3.1	21
19	VP045	107	16	11	3.8	17	2.8	37	4.0	17	7.0	8	4.5	4	3.0	25
35	PAN11	99	21	10	3.7	19	3.1	33	4.9	3	4.9	36	4.3	8	3.4	13
9	O4SADVE	105	21	12	3.7	24	5.0	9	3.7	22	6.8	10	3.5	31	2.5	38
31	VP052	85	27	11	4.1	18	6.2	2	3.6	24	6.0	24	4.1	16	3.1	22
Maturity group average		111	15	10	4.1	15	4.5	19	4.3	16	6.7	13	4.2	15	3.3	16
Mean		100	20	9	3.77	20	4.20	21	3.86	21	6.17	21	3.92	20	3.13	21
LSD (0.05)		14	7	1	0.48	7	2.30	12	1.84	12	1.34	12	0.47	12	0.74	12
Min		60	8	7	2.81	7	2.60	1	1.69	1	4.08	1	3.03	1	2.37	1
Max		129	36	13	4.57	35	7.42	40	6.92	40	8.28	40	4.98	40	3.80	40
NumSignificantSites		35	35	35	8	8	1	1	1	1	1	1	1	1	1	1

REGPOP06: Results of evaluation of early, intermediate and late maturing OPVs from CIMMYT, Western Seed, Pannar and Nelson Genetics across 35 sites in eastern and southern Africa, 2005/06. Table 3G

Entry	Name	Mid Altitude Dry (Zone C) - Grain Yields													
		Across			Across		Umbeluzi Moz		Makoholi Zim		Kadoma Zim		Makoholi Zim		
		RelGY	Rank		GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	
	%	Avg	StdDev	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#		
<b>Entries with anthesis dates less than 60 days</b>															
36	WS103	60	36	7	2.8	35	0.8	40	1.2	40	4.8	39	0.3	38.0	
Maturity group average		60	36	7	2.8	35	0.8	40	1.2	40	4.8	39	0.3	38.0	
<b>Entries with anthesis dates between 60 and 62 days</b>															
5	ZM309	104	19	10	3.7	23	2.0	20	2.3	5	5.2	38	0.5	31.0	
12	VP05181	104	20	10	3.8	21	2.4	13	2.2	7	5.4	33	0.7	22.0	
4	VP041	101	21	10	4.1	17	2.2	17	1.8	23	6.7	12	0.9	10.0	
1	ZM307	100	22	9	3.7	21	2.0	21	2.1	9	6.3	17	0.7	19.0	
10	VP05179	100	23	11	3.3	28	1.9	25	2.1	8	5.9	22	0.9	11.0	
17	VP05149	96	23	9	3.4	27	1.7	31	1.9	17	5.4	32	0.5	34.0	
2	ZM305	91	26	9	3.5	26	1.8	27	1.6	37	6.1	20	0.5	35.0	
11	VP05180	87	28	9	3.5	26	1.1	39	1.9	19	5.3	36	0.6	29.0	
27	VP051	75	34	8	3.0	35	1.6	34	1.7	32	4.6	40	0.3	36.0	
Maturity group average		95	24	9	3.5	25	1.9	25	2.0	17	5.7	28	0.6	25.2	
<b>Entries with anthesis dates between 63 and 66 days</b>															
8	O2SADVE	120	9	7	4.6	7	2.4	14	1.9	20	6.7	13	1.0	7.0	
7	ZM523	118	10	7	4.5	8	2.9	2	2.0	14	6.5	14	1.1	2.0	
3	ZM401	104	18	9	3.7	21	2.1	19	2.0	16	6.1	19	0.6	24.0	
20	ZM501	102	19	9	4.0	18	1.8	28	1.8	24	6.8	10	0.7	23.0	
6	ZM423	100	20	10	3.8	21	2.4	15	1.6	36	7.1	7	0.6	28.0	
18	VP05175	99	21	10	3.5	25	2.1	18	2.0	13	5.7	26	0.5	33.0	
15	VP05185	96	23	11	4.0	14	2.8	3	1.8	25	6.5	16	1.0	4.0	
13	VP05182	94	23	8	3.5	23	1.4	36	1.7	31	5.7	25	0.7	21.0	
14	VP05184	95	23	10	3.9	19	2.5	8	1.8	21	6.5	15	0.5	30.0	
39	Local Check1	94	23	13	3.6	25	1.7	32	1.8	28	7.0	8	0.3	39.0	
33	VP05195	93	23	9	3.6	23	2.2	16	1.7	33	5.8	24	0.6	26.0	
40	Local Check2	94	24	12	3.2	26	1.9	24	2.0	12	5.5	30	1.4	1.0	
32	VP05194	91	24	11	3.8	21	1.7	29	1.8	22	6.3	18	0.5	32.0	
16	VP05186	93	25	9	3.3	30	1.8	26	2.5	1	5.2	37	0.6	25.0	
28	VP05196	92	25	9	3.6	24	2.6	7	1.8	27	5.7	29	0.7	17.0	
37	WS 909	90	26	9	3.5	26	2.0	22	1.7	30	6.0	21	0.3	37.0	
30	VP05198	86	28	9	3.5	28	1.6	33	1.9	18	5.3	34	0.6	27.0	
29	VP05197	87	28	9	3.4	26	1.3	37	1.6	35	5.3	35	1.0	6.0	
Maturity group average		98	19	10	5.7	18	4.2	18	4.3	20	7.5	18	3.8	18.4	
<b>Entries with anthesis dates greater than 66 days</b>															
25	O4SADVL	129	8	8	4.5	9	2.7	5	2.3	2	7.8	2	1.0	9.0	
23	ZM721	120	10	8	4.3	11	3.2	1	2.3	4	7.2	4	1.0	8.0	
22	ZM625	119	10	10	4.4	10	1.5	35	2.3	6	6.8	11	1.1	3.0	
24	ZM623	118	11	10	4.1	14	1.7	30	2.0	11	7.2	3	1.0	5.0	
38	SC513	117	11	9	4.4	13	2.4	10	2.0	15	7.8	1	0.7	20.0	
21	98SADVI	114	12	7	3.9	15	2.5	9	2.0	10	7.1	6	0.7	16.0	
34	Afric1	108	15	11	4.4	13	2.6	6	1.4	38	7.0	9	0.8	12.0	
26	O4WEEVIL	113	15	10	3.8	19	2.0	23	1.7	34	5.7	27	0.8	14.0	
19	VP045	107	16	11	3.8	17	2.7	4	2.3	3	5.7	28	0.8	13.0	
35	PAN11	99	21	10	3.7	19	2.4	11	1.8	26	5.5	31	0.7	15.0	
9	O4SADVE	105	21	12	3.7	24	1.3	38	1.8	29	5.9	23	0.7	18.0	
31	VP052	85	27	11	4.1	18	2.4	12	1.3	39	7.1	5	0.2	40.0	
Maturity group average		111	15	10	4.1	15	2.3	15	1.9	18	6.7	13	0.8	14.4	
<b>Mean</b>		<b>100</b>	<b>20</b>	<b>9</b>	<b>3.77</b>	<b>20</b>	<b>2.06</b>	<b>21</b>	<b>1.89</b>	<b>21</b>	<b>6.14</b>	<b>21</b>	<b>0.71</b>	<b>21</b>	
<b>LSD (0.05)</b>		<b>14</b>	<b>7</b>	<b>1</b>	<b>0.48</b>	<b>7</b>	<b>1.07</b>	<b>12</b>	<b>0.72</b>	<b>12</b>	<b>1.45</b>	<b>12</b>	<b>0.51</b>	<b>12</b>	
<b>Min</b>		<b>60</b>	<b>8</b>	<b>7</b>	<b>2.81</b>	<b>7</b>	<b>0.84</b>	<b>1</b>	<b>1.19</b>	<b>1</b>	<b>4.62</b>	<b>1</b>	<b>0.18</b>	<b>1</b>	
<b>Max</b>		<b>129</b>	<b>36</b>	<b>13</b>	<b>4.57</b>	<b>35</b>	<b>3.22</b>	<b>40</b>	<b>2.50</b>	<b>40</b>	<b>7.80</b>	<b>40</b>	<b>1.41</b>	<b>40</b>	
NumSignificantSites		35	35	35	8	8	1	0	0	1	1	1	1	1	

REGPOP06: Results of evaluation of early, intermediate and late maturing OPVs from CIMMYT, Western Seed, Pannar and Nelson Genetics across 35 sites in eastern and southern Africa, 2005/06. Table 3H

Entry	Name	Lowland Tropical Humid (Zone D) - Grain Yields								Lowland Tropical Dry (Zone E) - Grain Yields							
		Across			Across		Katrin Tan		Cholima Tan		Across			Nanga Zam		Nampula Moz	
		RelGY	Rank	StdDev	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield
%	Avg	StdDev	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	
<b>Entries with anthesis dates less than 60 days</b>																	
36	WS103	60	36	7	2.6	40	2.7	40	2.5	40	1.6	27	3.0	37	1.1	40	
Maturity group average		60	36	7	2.6	40	2.7	40	2.5	40	1.6	27	3.0	37	1.1	40	
<b>Entries with anthesis dates between 60 and 62 days</b>																	
5	ZM309	104	19	10	4.2	25	4.6	34	3.9	16	2.1	11	3.9	26	3.1	19	
12	VP05181	104	20	10	4.2	26	5.3	17	3.1	35	2.4	6	4.8	8	3.1	16	
4	VP041	101	21	10	4.1	31	4.7	32	3.5	29	1.8	17	3.4	32	2.5	33	
1	ZM307	100	22	9	4.3	26	5.0	23	3.5	28	2.2	10	3.8	28	3.4	12	
10	VP05179	100	23	11	3.9	34	4.5	35	3.3	32	2.1	14	4.3	17	2.0	37	
17	VP05149	96	23	9	3.3	38	4.0	37	2.7	39	2.2	12	4.2	21	3.4	9	
2	ZM305	91	26	9	3.4	37	3.7	39	3.1	34	2.1	17	4.3	19	1.7	39	
11	VP05180	87	28	9	4.1	29	4.9	27	3.3	31	2.1	16	4.3	18	2.3	35	
27	VP051	75	34	8	3.6	37	4.4	36	2.8	37	1.7	29	3.9	25	2.1	36	
Maturity group average		95	24	9	3.9	31	4.6	31	3.2	31	2.1	15	4.1	22	2.6	26	
<b>Entries with anthesis dates between 63 and 66 days</b>																	
8	O2SADVE	120	9	7	5.0	10	5.5	15	4.5	5	2.5	5	4.8	10	3.5	5	
7	ZM523	118	10	7	4.9	14	6.0	10	3.8	17	2.1	19	4.5	15	3.5	7	
3	ZM401	104	18	9	4.7	15	5.2	20	4.2	9	1.9	24	4.0	24	3.9	1	
20	ZM501	102	19	9	4.3	26	4.9	25	3.6	27	1.8	18	3.3	34	3.2	14	
6	ZM423	100	20	10	4.6	18	5.7	13	3.6	23	1.4	29	2.7	38	3.1	20	
18	VP05175	99	21	10	3.7	36	4.7	33	2.7	38	1.9	22	3.8	29	2.8	27	
15	VP05185	96	23	11	4.4	21	5.3	18	3.6	24	2.2	14	4.5	16	3.5	8	
13	VP05182	94	23	8	4.4	22	5.1	22	3.6	21	1.6	24	3.0	36	3.2	15	
14	VP05184	95	23	10	4.2	25	4.7	31	3.8	18	2.0	18	4.1	23	3.0	23	
39	Local Check1	94	23	13	5.0	18	6.6	5	3.4	30	1.5	25	2.7	39	3.1	18	
33	VP05195	93	23	9	4.7	21	6.2	8	3.2	33	1.9	25	4.5	14	2.8	26	
40	Local Check2	94	24	12	4.5	18	5.2	21	3.9	14	1.7	24	3.3	33	2.5	34	
32	VP05194	91	24	11	5.1	11	6.0	11	4.2	10	2.3	14	5.0	5	3.5	6	
16	VP05186	93	25	9	4.6	18	4.9	28	4.3	8	2.3	14	5.0	4	3.0	22	
28	VP05196	92	25	9	4.4	22	5.3	19	3.6	25	2.4	20	5.8	1	2.7	30	
37	WS 909	90	26	9	4.3	23	4.9	26	3.7	19	1.7	27	3.6	31	2.0	38	
30	VP05198	86	28	9	4.7	15	5.5	16	3.9	13	2.1	22	4.9	7	2.9	25	
29	VP05197	87	28	9	4.7	17	5.8	12	3.6	22	1.6	29	3.2	35	3.1	17	
Maturity group average		98	19	10	5.8	16	6.4	17	5.3	17	3.9	21	5.7	19	4.9	18	
<b>Entries with anthesis dates greater than 66 days</b>																	
25	O4SADVL	129	8	8	5.0	11	5.7	14	4.3	7	2.2	17	5.1	3	3.1	21	
23	ZM721	120	10	8	6.1	3	6.9	3	5.4	2	2.1	19	4.6	11	3.7	4	
22	ZM625	119	10	10	5.8	6	7.4	1	4.1	11	2.4	15	5.6	2	3.8	2	
24	ZM623	118	11	10	6.3	3	7.4	2	5.3	3	2.0	25	4.6	12	3.4	10	
38	SC513	117	11	9	5.3	13	5.0	24	5.6	1	2.1	19	4.8	9	2.8	28	
21	98SADVI	114	12	7	5.2	12	6.7	4	3.7	20	2.3	11	5.0	6	3.7	3	
34	Afric1	108	15	11	5.2	10	6.3	7	4.1	12	1.5	33	4.2	20	3.4	11	
26	O4WEEVIL	113	15	10	5.0	17	4.7	30	5.3	4	2.1	19	4.5	13	3.0	24	
19	VP045	107	16	11	5.2	11	6.5	6	3.9	15	1.6	31	3.6	30	3.2	13	
35	PAN11	99	21	10	4.2	28	4.8	29	3.6	26	1.6	33	3.8	27	2.7	31	
9	O4SADVE	105	21	12	3.5	37	4.0	38	2.9	36	1.9	26	4.1	22	2.7	32	
31	VP052	85	27	11	5.2	8	6.1	9	4.3	6	1.1	39	2.6	40	2.7	29	
Maturity group average		111	15	10	5.2	13	5.9	14	4.4	12	1.9	24	4.4	16	3.2	17	
<b>Mean</b>		100	20	9	4.5	21	5.31	21	3.79	21	1.95	21	4.12	21	2.95	21	
<b>LSD (0.05)</b>		14	7	1	0.7	10	0.85	12	1.03	12	0.65	8	1.61	12	1.39	12	
<b>Min</b>		60	8	7	2.6	3	2.69	1	2.53	1	1.11	5	2.60	1	1.12	1	
<b>Max</b>		129	36	13	6.3	40	7.39	40	5.58	40	2.51	39	5.80	40	3.89	40	
<b>NumSignificantSites</b>		35	35	35	2	2	1	1	3	3	1	0					

REGPOP06: Results of evaluation of early, intermediate and late maturing OPVs from CIMMYT, Western Seed, Pannar and Nelson Genetics across 35 sites in eastern and southern Africa, 2005/06.

Table 31

Entry	Name	Lowland Tropical Dry (Zone E) - Grain Yields										N Stress - Grain Yields					
		Across			Across		Save Valley Zim		Chiredzi Zim		Chiredzi Zim		Across		Chitedze Mal		
		RelGY	Rank		GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield
	%	Avg	StdDev	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#
<b>Entries with anthesis dates less than 60 days</b>																	
36	WS103	60	36	7	1.6	27	1.6	40	1.0	21	0.7	23	1.1	37	1.0	39	
Maturity group average		60	36	7	1.6	27	1.6	40	1.0	21	0.7	23	1.1	37	1.0	39	
<b>Entries with anthesis dates between 60 and 62 days</b>																	
5	ZM309	104	19	10	2.1	11	3.0	17	1.3	5	1.1	3	2.0	18	1.8	29	
12	VP05181	104	20	10	2.4	6	3.0	16	1.3	6	1.1	4	1.7	26	1.8	30	
4	VP041	101	21	10	1.8	17	3.0	14	1.2	8	0.9	12	1.9	17	2.3	8	
1	ZM307	100	22	9	2.2	10	2.6	30	1.4	1	1.4	1	1.8	23	1.9	27	
10	VP05179	100	23	11	2.1	14	2.7	27	1.2	11	0.9	14	2.0	19	2.0	19	
17	VP05149	96	23	9	2.2	12	3.2	8	1.3	3	0.9	11	1.9	19	2.0	21	
2	ZM305	91	26	9	2.1	17	2.7	25	0.9	27	1.1	5	1.7	23	1.6	34	
11	VP05180	87	28	9	2.1	16	2.1	36	1.2	9	0.8	20	1.4	31	1.0	40	
27	VP051	75	34	8	1.7	29	3.2	11	0.7	35	0.6	28	1.5	31	2.2	11	
Maturity group average		95	24	9	2.1	15	2.8	20	1.2	12	1.0	11	1.8	23	1.9	24	
<b>Entries with anthesis dates between 63 and 66 days</b>																	
8	02SADVE	120	9	7	2.5	5	3.5	5	1.4	2	1.3	2	2.2	15	2.1	15	
7	ZM523	118	10	7	2.1	19	2.8	22	0.9	25	0.8	17	2.2	12	3.2	2	
3	ZM401	104	18	9	1.9	24	2.6	29	1.0	22	0.7	25	2.0	16	1.9	24	
20	ZM501	102	19	9	1.8	18	2.1	35	1.2	12	1.0	9	1.8	22	1.9	26	
6	ZM423	100	20	10	1.4	29	3.7	3	1.1	17	0.5	33	1.8	21	1.9	28	
18	VP05175	99	21	10	1.9	22	2.7	26	0.8	29	1.0	8	1.9	18	1.7	32	
15	VP05185	96	23	11	2.2	14	3.1	12	1.3	7	0.8	19	1.5	29	2.6	5	
13	VP05182	94	23	8	1.6	24	2.6	31	1.1	19	0.8	18	1.6	23	1.2	38	
14	VP05184	95	23	10	2.0	18	2.1	37	0.9	24	1.0	6	1.7	25	1.5	35	
39	Local Check1	94	23	13	1.5	25	1.9	38	1.3	4	0.5	31	2.0	13	2.5	6	
33	VP05195	93	23	9	1.9	25	2.7	28	0.9	23	0.3	37	1.6	25	2.2	9	
40	Local Check2	94	24	12	1.7	24	3.6	4	0.9	26	0.9	13	1.5	27	1.5	36	
32	VP05194	91	24	11	2.3	14	3.0	18	1.1	15	0.7	22	1.4	34	1.9	23	
16	VP05186	93	25	9	2.3	14	2.6	32	1.2	10	0.6	29	1.7	22	2.2	13	
28	VP05196	92	25	9	2.4	20	2.9	19	0.7	32	0.6	27	1.6	26	2.2	14	
37	WS 909	90	26	9	1.7	27	3.2	9	1.1	14	0.5	35	1.7	20	2.1	17	
30	VP05198	86	28	9	2.1	22	2.4	33	0.5	39	0.8	21	1.7	28	1.7	31	
29	VP05197	87	28	9	1.6	29	1.6	39	0.6	37	0.9	16	1.4	34	1.5	37	
Maturity group average		98	19	10	3.9	21	4.7	20	4.1	23	4.1	23	3.9	18	4.3	18	
<b>Entries with anthesis dates greater than 66 days</b>																	
25	04SADVL	129	8	8	2.2	17	2.7	24	1.1	16	0.5	32	2.6	5	3.2	3	
23	ZM721	120	10	8	2.1	19	4.1	1	1.1	20	0.6	26	2.2	9	2.4	7	
22	ZM625	119	10	10	2.4	15	3.4	7	0.7	36	1.0	7	2.1	11	2.1	18	
24	ZM623	118	11	10	2.0	25	3.8	2	0.8	28	0.5	34	2.3	14	2.0	22	
38	SC513	117	11	9	2.1	19	2.8	21	1.1	13	0.3	36	2.2	10	2.2	11	
21	98SADVI	114	12	7	2.3	11	3.4	6	1.1	18	1.0	10	2.5	7	3.6	1	
34	Afric1	108	15	11	1.5	33	2.7	23	0.5	40	0.0	40	2.1	15	2.1	15	
26	04WEEVIL	113	15	10	2.1	19	3.2	10	0.8	30	0.9	15	2.2	11	2.0	20	
19	VP045	107	16	11	1.6	31	2.3	34	0.7	34	0.5	30	1.9	18	2.2	9	
35	PAN11	99	21	10	1.6	33	3.1	13	0.7	33	0.3	38	1.7	23	1.9	25	
9	04SADVE	105	21	12	1.9	26	2.9	20	0.8	31	0.7	24	1.9	17	2.8	4	
31	VP052	85	27	11	1.1	39	3.0	15	0.6	38	0.2	39	1.6	29	1.7	33	
Maturity group average		111	15	10	1.9	24	3.1	15	0.8	28	0.5	28	2.1	14	2.3	14	
Mean		100	20	9	1.95	21	2.84	21	0.99	21	0.74	21	1.84	20	2.04	20	
LSD (0.05)		14	7	1	0.65	8	1.43	12	0.64	12	0.55	12	0.40	8	1.17	12	
Min		60	8	7	1.11	5	1.56	1	0.45	1	0.01	1	1.12	5	0.99	1	
Max		129	36	13	2.51	39	4.12	40	1.45	40	1.37	40	2.57	37	3.63	40	
NumSignificantSites		35	35	35	3	3	0	1	1	1	6	6	1				

REGPOP06: Results of evaluation of early, intermediate and late maturing OPVs from CIMMYT, Western Seed, Pannar and Nelson Genetics across 35 sites in eastern and southern Africa, 2005/06. Table 3J

Entry	Name	N Stress - Grain Yields															
		Across			Across		Afsf-Arusha Tan		Golden Valley Zam		Lichinga Moz		AREX Harare Zim		Harare Zim		
		RelGY	Rank	StdDev	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	
	%	Avg	StdDev	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#		
<b>Entries with anthesis dates less than 60 days</b>																	
36	WS103	60	36	7	1.1	37	2.5	39	0.9	29	1.4	39	0.1	40	0.8	38	
Maturity group average		60	36	7	1.1	37	2.5	39	0.9	29	1.4	39	0.1	40	0.8	38	
<b>Entries with anthesis dates between 60 and 62 days</b>																	
5	ZM309	104	19	10	2.0	18	3.9	15	1.3	16	3.1	9	0.3	12	1.3	28	
12	VP05181	104	20	10	1.7	26	3.0	34	0.7	37	2.9	15	0.3	18	1.5	21	
4	VP041	101	21	10	1.9	17	3.0	32	1.5	11	2.2	21	0.3	26	1.9	4	
1	ZM307	100	22	9	1.8	23	4.6	4	1.1	23	1.5	37	0.2	33	1.7	12	
10	VP05179	100	23	11	2.0	19	3.8	17	1.9	4	2.5	16	0.3	31	1.4	24	
17	VP05149	96	23	9	1.9	19	4.1	11	1.1	25	2.1	25	0.3	24	1.8	8	
2	ZM305	91	26	9	1.7	23	3.3	26	1.3	15	2.3	18	0.3	29	1.5	17	
11	VP05180	87	28	9	1.4	31	2.7	38	1.4	13	1.6	34	0.3	32	1.2	31	
27	VP051	75	34	8	1.5	31	3.2	27	0.7	35	1.6	35	0.2	39	1.0	36	
Maturity group average		95	24	9	1.8	23	3.5	23	1.2	20	2.2	23	0.3	27	1.5	20	
<b>Entries with anthesis dates between 63 and 66 days</b>																	
8	O2SADVE	120	9	7	2.2	15	4.8	3	0.8	32	3.7	2	0.3	20	1.6	15	
7	ZM523	118	10	7	2.2	12	4.4	7	1.2	22	2.4	17	0.3	21	1.9	5	
3	ZM401	104	18	9	2.0	16	4.3	8	1.9	2	1.9	29	0.3	22	1.8	11	
20	ZM501	102	19	9	1.8	22	4.2	10	1.1	24	2.2	22	0.3	30	1.5	18	
6	ZM423	100	20	10	1.8	21	3.4	22	1.9	5	2.0	27	0.3	13	1.3	30	
18	VP05175	99	21	10	1.9	18	4.0	12	1.5	10	2.2	20	0.4	7	1.4	26	
15	VP05185	96	23	11	1.5	29	3.2	28	0.7	34	1.5	36	0.2	35	0.9	37	
13	VP05182	94	23	8	1.6	23	3.6	19	1.4	14	2.1	26	0.3	11	1.2	32	
14	VP05184	95	23	10	1.7	25	3.4	25	1.7	7	1.9	28	0.3	23	1.3	29	
39	Local Check1	94	23	13	2.0	13	3.5	20	1.9	3	1.8	30	0.3	14	2.0	3	
33	VP05195	93	23	9	1.6	25	3.4	24	1.0	27	1.4	38	0.2	37	1.6	14	
40	Local Check2	94	24	12	1.5	27	2.1	40	0.5	38	3.0	10	0.3	19	1.5	19	
32	VP05194	91	24	11	1.4	34	2.9	37	0.7	33	1.8	31	0.2	38	0.8	39	
16	VP05186	93	25	9	1.7	22	2.9	35	0.9	30	2.3	19	0.3	27	1.8	10	
28	VP05196	92	25	9	1.6	26	3.1	31	0.7	36	2.1	23	0.3	25	1.4	27	
37	WS 909	90	26	9	1.7	20	3.2	29	1.6	9	1.2	40	0.3	10	1.6	13	
30	VP05198	86	28	9	1.7	28	3.5	21	0.8	31	3.0	11	0.2	34	0.7	40	
29	VP05197	87	28	9	1.4	34	2.9	36	1.0	26	1.6	33	0.2	36	1.1	34	
Maturity group average		98	19	10	3.9	18	5.3	19	3.8	20	4.5	19	2.9	18	4.2	20	
<b>Entries with anthesis dates greater than 66 days</b>																	
25	O4SADVL	129	8	8	2.6	5	4.4	6	2.4	1	3.2	7	0.4	2	1.8	9	
23	ZM721	120	10	8	2.2	9	4.0	13	1.3	17	3.2	5	0.4	4	1.9	7	
22	ZM625	119	10	10	2.1	11	3.0	33	1.8	6	3.4	4	0.4	5	2.2	1	
24	ZM623	118	11	10	2.3	14	5.6	1	1.2	19	2.9	14	0.4	3	1.4	22	
38	SC513	117	11	9	2.2	10	4.0	14	1.4	12	3.9	1	0.4	6	1.5	16	
21	98SADVI	114	12	7	2.5	7	4.5	5	1.6	8	3.2	6	0.3	17	1.9	6	
34	Afric1	108	15	11	2.1	15	3.8	16	1.3	18	3.5	3	0.3	15	1.4	23	
26	O4WEEVIL	113	15	10	2.2	11	4.9	2	0.9	28	3.0	12	0.4	1	2.1	2	
19	VP045	107	16	11	1.9	18	4.3	9	1.2	21	2.1	24	0.4	8	1.1	35	
35	PAN11	99	21	10	1.7	23	3.4	23	1.2	20	1.8	32	0.3	16	1.5	20	
9	O4SADVE	105	21	12	1.9	17	3.6	18	0.3	40	3.2	8	0.4	9	1.4	25	
31	VP052	85	27	11	1.6	29	3.1	30	0.5	39	3.0	13	0.3	28	1.2	33	
Maturity group average		111	15	10	2.1	14	4.0	14	1.3	19	3.0	11	0.4	10	1.6	17	
<b>Mean</b>		100	20	9	1.84	20	3.63	21	1.20	21	2.40	21	0.30	21	1.47	21	
<b>LSD (0.05)</b>		14	7	1	0.40	8	1.30	12	0.86	12	1.20	12	0.11	12	0.49	12	
<b>Min</b>		60	8	7	1.12	5	2.10	1	0.35	1	1.22	1	0.11	1	0.65	1	
<b>Max</b>		129	36	13	2.57	37	5.57	40	2.43	40	3.87	40	0.43	40	2.22	40	
<b>NumSignificantSites</b>		35	35	35	6	6	1	1	1	1	1	1	1	1	1	1	



REGPOP06: Results of evaluation of early, intermediate and late maturing OPVs from CIMMYT, Western Seed, Pannar and Nelson Genetics across 35 sites in eastern and southern Africa, 2005/06.

Table 3K

Entry	Name	MSV - Grain Yields					Low pH - Grain Yields					Zone E			N Stress		Low pH			
		Across			Harare Zim		Across			Tsangano Mal		Kasama Zam		ASI	Ears/	Leaf	ASI	Ears/	Leaf	ASI
		RelGY	Rank	StdDev	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	d	#	0-10	d	#	0-10
<b>Entries with anthesis dates less than 60 days</b>																				
36	WS103	60	36	7	0.2	40	1.7	40	-0.18	40	3.55	40	7.2	0.68	1.0	3.2	0.92	7.6	10.7	
Maturity group average		60	36	7	0.2	40	1.7	40	-0.18	40	3.55	40	7.2	0.68	1.0	3.2	0.92	7.6	10.7	
<b>Entries with anthesis dates between 60 and 62 days</b>																				
5	ZM309	104	19	10	5.6	19	2.8	16	0.27	8	5.24	23	3.3	0.75	1.2	2.2	0.83	6.7	1.0	
12	VP05181	104	20	10	6.0	16	2.8	13	0.35	4	5.29	22	5.8	0.85	1.9	3.6	0.89	6.2	3.3	
4	VP041	101	21	10	5.2	28	2.8	21	0.15	23	5.39	18	5.4	0.87	2.1	2.2	0.91	6.6	1.7	
1	ZM307	100	22	9	5.6	18	3.0	12	0.23	12	5.84	12	5.4	0.73	1.7	1.9	1.03	5.8	5.0	
10	VP05179	100	23	11	2.5	39	2.5	24	0.24	11	4.75	36	3.1	0.78	1.4	2.9	1.53	7.0	6.0	
17	VP05149	96	23	9	6.0	15	2.6	25	0.15	24	5.14	26	6.5	0.76	2.2	3.5	0.87	6.3	5.5	
2	ZM305	91	26	9	4.4	34	2.4	32	0.10	29	4.78	35	6.3	0.71	1.6	2.9	0.97	7.3	2.7	
11	VP05180	87	28	9	4.1	36	2.7	27	0.06	34	5.38	19	7.0	0.62	2.5	4.7	0.72	6.6	4.0	
27	VP051	75	34	8	6.9	7	2.1	38	0.02	37	4.19	39	7.8	0.66	2.9	4.1	0.73	7.1	3.5	
Maturity group average		95	24	9	5.2	24	2.6	23	0.18	20	5.11	26	5.6	0.75	1.9	3.1	0.94	6.6	3.6	
<b>Entries with anthesis dates between 63 and 66 days</b>																				
8	O2SADVE	120	9	7	6.0	14	3.3	10	0.23	14	6.34	6	6.1	0.80	2.4	2.5	0.87	5.5	5.0	
7	ZM523	118	10	7	6.7	9	2.8	20	0.19	18	5.31	21	12.4	0.61	2.4	3.2	1.02	5.4	4.3	
3	ZM401	104	18	9	6.1	12	2.7	16	0.28	6	5.18	25	5.7	0.74	2.4	4.1	0.85	5.9	3.3	
20	ZM501	102	19	9	5.4	25	2.5	27	0.16	21	4.81	33	8.8	0.69	2.8	3.9	0.86	5.9	6.2	
6	ZM423	100	20	10	5.8	17	3.1	10	0.27	9	5.97	10	10.0	0.75	1.8	4.5	0.89	5.9	2.7	
18	VP05175	99	21	10	3.7	38	3.1	9	0.25	10	5.99	8	6.1	0.74	2.7	3.2	1.08	5.8	6.2	
15	VP05185	96	23	11	5.3	27	2.9	22	0.10	28	5.70	15	7.3	0.64	3.4	3.0	0.99	7.0	5.0	
13	VP05182	94	23	8	5.4	24	2.6	29	0.10	27	5.04	30	9.9	0.61	2.0	3.3	0.63	6.2	5.3	
14	VP05184	95	23	10	5.3	26	2.9	26	-0.02	38	5.76	14	8.7	0.70	1.6	2.4	0.76	6.1	7.8	
39	Local Check1	94	23	13	5.1	29	2.5	32	0.08	32	4.94	31	11.6	0.63	1.6	3.3	0.68	6.3	1.7	
33	VP05195	93	23	9	4.2	35	2.8	21	0.16	22	5.36	20	18.6	0.66	1.8	3.9	0.64	6.0	4.8	
40	Local Check2	94	24	12	5.6	20	2.9	24	0.09	31	5.65	16	5.1	0.73	2.4	3.0	0.78	5.1	2.5	
32	VP05194	91	24	11	4.0	37	2.6	32	0.05	35	5.05	29	10.4	0.62	2.1	2.9	0.59	6.6	5.0	
16	VP05186	93	25	9	6.7	8	2.6	27	0.11	26	5.05	28	9.7	0.65	2.1	2.1	0.93	6.4	3.7	
28	VP05196	92	25	9	4.8	33	2.3	32	0.14	25	4.48	38	13.1	0.69	1.9	1.1	0.62	6.7	3.7	
37	WS 909	90	26	9	5.5	23	2.4	34	0.10	30	4.67	37	11.6	0.66	2.0	2.6	0.80	6.0	3.7	
30	VP05198	86	28	9	4.9	32	2.6	30	0.05	36	5.18	24	5.5	0.63	3.2	3.9	0.55	7.1	3.7	
29	VP05197	87	28	9	4.9	31	2.4	34	0.07	33	4.79	34	11.4	0.68	2.9	3.2	0.75	6.7	3.2	
Maturity group average		98	19	10	6.3	19	4.1	18	3.29	20	6.48	18	13.7	2.71	17.9	5.1	2.29	7.2	5.3	
<b>Entries with anthesis dates greater than 66 days</b>																				
25	O4SADVL	129	8	8	8.5	1	3.4	4	0.47	2	6.39	5	14.2	0.59	3.2	3.5	0.91	5.0	3.3	
23	ZM721	120	10	8	7.7	2	3.6	5	0.28	7	6.82	2	7.5	0.71	3.4	3.7	0.83	5.5	2.8	
22	ZM625	119	10	10	6.6	10	3.4	9	0.22	15	6.61	3	14.2	0.62	4.3	1.9	0.86	5.4	4.0	
24	ZM623	118	11	10	7.0	6	3.0	15	0.21	17	5.79	13	17.7	0.58	2.7	3.0	1.03	5.2	1.8	
38	SC513	117	11	9	5.0	30	3.6	7	0.23	13	7.05	1	19.2	0.45	1.9	2.9	0.86	4.9	4.7	
21	98SADVI	114	12	7	6.1	13	3.3	12	0.18	19	6.43	4	8.4	0.67	2.6	2.2	0.96	5.8	5.5	
34	Afric1	108	15	11	5.6	21	3.2	14	0.16	20	6.22	7	15.5	0.49	1.9	3.8	0.64	5.1	2.2	
26	O4WEEVIL	113	15	10	7.5	4	2.9	10	0.37	3	5.50	17	11.6	0.61	3.2	2.8	0.85	4.9	4.7	
19	VP045	107	16	11	7.3	5	2.7	16	0.32	5	5.10	27	21.2	0.49	4.3	4.2	0.85	5.9	2.0	
35	PAN11	99	21	10	7.6	3	3.1	14	0.22	16	5.93	11	18.2	0.51	2.7	3.1	0.89	5.2	4.0	
9	O4SADVE	105	21	12	6.3	11	3.3	5	0.70	1	5.98	9	13.5	0.58	1.7	5.2	0.80	5.3	3.5	
31	VP052	85	27	11	5.5	22	2.4	36	-0.11	39	4.94	32	19.4	0.48	1.4	3.8	0.53	5.8	4.0	
Maturity group average		111	15	10	6.7	11	3.2	12	0.27	13	6.06	11	15.0	0.57	2.8	3.4	0.84	5.3	3.5	
<b>Mean</b>		<b>100</b>	<b>20</b>	<b>9</b>	<b>5.56</b>	<b>21</b>	<b>2.81</b>	<b>21</b>	<b>0.18</b>	<b>21</b>	<b>5.44</b>	<b>21</b>	<b>10.3</b>	<b>0.66</b>	<b>2.3</b>	<b>3.2</b>	<b>0.84</b>	<b>6.0</b>	<b>4.1</b>	
<b>LSD (0.05)</b>		<b>14</b>	<b>7</b>	<b>1</b>	<b>2.02</b>	<b>12</b>	<b>0.54</b>	<b>10</b>	<b>0.21</b>	<b>12</b>	<b>1.07</b>	<b>12</b>	<b>7.5</b>	<b>0.16</b>	<b>1.4</b>	<b>1.5</b>	<b>0.29</b>	<b>0.7</b>	<b>1.9</b>	
<b>Min</b>		<b>60</b>	<b>8</b>	<b>7</b>	<b>0.22</b>	<b>1</b>	<b>1.69</b>	<b>4</b>	<b>-0.18</b>	<b>1</b>	<b>3.55</b>	<b>1</b>	<b>3.1</b>	<b>0.45</b>	<b>1.0</b>	<b>1.1</b>	<b>0.53</b>	<b>4.9</b>	<b>1.0</b>	
<b>Max</b>		<b>129</b>	<b>36</b>	<b>13</b>	<b>8.46</b>	<b>40</b>	<b>3.64</b>	<b>40</b>	<b>0.70</b>	<b>40</b>	<b>7.05</b>	<b>40</b>	<b>21.2</b>	<b>0.87</b>	<b>4.3</b>	<b>5.2</b>	<b>1.53</b>	<b>7.6</b>	<b>10.7</b>	
NumSignificantSites		35	35	35	1	2	2	1	1	1	2	3	1	3	1	1	1	2	2	

# EIHYB06

EIHYB06: Results of evaluation of early and intermediate maturing hybrids from CIMMYT, Seedco, Pioneer and Western Seed across 30 sites in eastern and southern Africa, 2005/06. Table 4C

Entry	Name	Mid Altitude Humid Warm (Zone A) - Grain Yields												
		Across			Across		Ukiriguru Tan		Mount Makulu Zam		Gwebi Zim		ART Farm Harare Zim	
		RelGY	Rank	StdDev	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo
	%	Avg		t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	
<b>Entries with anthesis dates between 64 and 66 days</b>														
16	CZH0524	112	13	10	7.7	12	2.1	16	9.9	1	10.4	15	8.4	25
12	CZH03005	107	15	8	7.3	15	2.0	17	8.7	8	10.2	17	8.6	23
29	SC411	103	16	8	7.3	14	2.7	5	6.9	27	10.7	11	10.2	3
13	CZH04003	102	19	10	6.8	21	2.7	4	6.9	26	9.6	24	8.2	30
17	CZH0525	101	19	10	6.6	25	1.4	32	6.9	28	9.1	31	8.4	27
10	CZH04002	98	20	9	6.7	24	1.8	27	6.5	30	8.9	34	8.8	22
23	CZH0531	98	21	10	6.4	23	2.7	6	7.0	22	9.8	23	7.2	34
30	SC525	93	22	10	7.3	15	2.3	13	8.0	16	10.0	19	9.8	5
4	CZH0520	90	23	10	6.4	25	2.0	21	6.1	32	11.0	8	7.9	32
20	CZH0528	90	24	8	6.8	22	1.9	24	7.0	25	10.5	14	9.0	19
24	CZH0532	90	24	8	6.8	22	2.0	18	8.3	11	9.0	33	7.9	33
28	SC403	87	24	10	6.9	19	2.6	7	7.7	19	10.0	20	9.0	17
Maturity group average		98	20	9	6.9	20	2.2	16	7.5	20	9.9	21	8.6	23
<b>Entries with anthesis dates between 67 and 69 days</b>														
31	SC527Q	111	11	10	7.9	6	3.0	1	8.1	14	10.9	9	9.8	6
3	CZH04032	113	12	8	7.4	15	1.9	23	8.2	13	10.7	12	9.2	14
25	CZH0533	110	13	9	7.8	11	1.6	30	9.2	2	10.8	10	10.0	4
18	CZH0526	109	13	7	7.4	15	2.5	9	8.6	9	9.9	22	9.0	20
5	CZH0521	108	13	9	7.7	9	2.5	8	8.8	5	10.6	13	9.1	16
11	CZH04005	106	14	9	7.5	15	1.8	26	8.3	10	11.0	7	8.3	29
1	CZH04034	106	14	10	7.4	13	2.8	3	7.6	20	11.6	2	9.4	11
32	SC633	103	15	11	7.9	9	2.9	2	8.0	15	11.3	4	10.9	1
22	CZH0530	106	16	9	7.4	14	2.0	19	8.9	3	10.3	16	9.0	18
15	CZH0535	104	16	9	7.4	15	2.0	22	7.8	18	11.2	5	9.2	13
19	CZH0527	104	16	9	7.2	18	1.5	31	8.2	12	10.1	18	8.9	21
21	CZH0529	103	17	11	7.4	14	1.7	29	8.9	4	9.5	25	9.5	7
14	CZH0534	102	17	11	6.8	23	1.1	35	8.0	17	9.4	27	9.2	15
6	CZH0522	101	18	8	6.9	21	2.4	11	8.7	6	9.1	30	8.3	28
7	CZH0523	96	20	8	7.1	16	2.1	15	7.0	24	10.0	21	9.2	12
9	CZH04001	94	21	9	6.7	23	2.3	12	6.8	29	9.4	28	8.4	26
2	CZH04035	93	21	11	6.4	22	2.4	10	4.3	35	12.0	1	8.1	31
27	PHB30B50	86	22	12	6.2	26	1.8	25	6.4	31	9.3	29	9.5	8
34	Local Check1	89	23	9	6.6	24	1.7	28	7.0	23	9.0	32	9.4	10
35	Local Check2	88	23	11	5.5	32	1.4	33	5.7	34	7.8	35	6.5	35
Maturity group average		102	17	9	7.1	17	2.1	19	7.7	16	10.2	17	9.0	16
<b>Entries with anthesis dates greater than 70 days</b>														
8	CZH0536	110	13	9	7.7	10	2.0	20	8.7	7	11.3	3	9.5	9
26	WH403	99	18	10	7.2	15	2.3	14	6.1	33	11.0	6	10.3	2
33	CZH0537	87	25	7	6.4	27	1.1	34	7.5	21	9.5	26	8.4	24
Maturity group average		99	19	9	7.1	17	1.8	23	7.4	20	10.6	12	9.4	12
<b>Mean</b>		100	18	9	7.06	18	2.08	18	7.62	18	10.14	18	8.93	18
<b>LSD (0.05)</b>		8	4	1	0.72	6	0.95	10	2.31	10	1.83	10	1.46	10
<b>Min</b>		86	11	7	5.51	6	1.08	1	4.30	1	7.77	1	6.52	1
<b>Max</b>		113	25	12	7.91	32	2.97	35	9.92	35	11.96	35	10.90	35
NumSignificantSites		29	29	29	5	5	1	1	1	1	1	1	1	1

**EIHYB06: Results of evaluation of early and intermediate maturing hybrids from CIMMYT, Seedco, Pioneer and Western Seed across 30 sites in eastern and southern Africa, 2005/06.** Table 4D

Entry	Name	Mid Altitude Humid Warm (Zone A) - Grain Yields						Mid Altitude Humid Hot (Zone B) - Grain Yields									
		Across			Across			Zamseed Farm Zam			Across			Chitala Mai		Weruweru Tan	
		RelGY	Rank	StdDev	GrainYield	RankNo	#	GrainYield	RankNo	#	GrainYield	RankNo	#	GrainYield	RankNo	GrainYield	RankNo
	%	Avg	StdDev	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#		
<b>Entries with anthesis dates between 64 and 66 days</b>																	
16	CZH0524	112	13	10	7.7	12	7.6	3	6.8	21	5.3	29	6.9	20			
12	CZH03005	107	15	8	7.3	15	7.1	12	7.3	15	6.3	17	7.4	8			
29	SC411	103	16	8	7.3	14	5.9	26	7.4	15	7.2	10	7.3	12			
13	CZH04003	102	19	10	6.8	21	6.7	19	6.9	23	7.6	6	6.3	29			
17	CZH0525	101	19	10	6.6	25	7.3	9	6.6	26	6.5	15	5.9	32			
10	CZH04002	98	20	9	6.7	24	7.3	6	6.4	26	5.8	24	6.7	22			
23	CZH0531	98	21	10	6.4	23	5.5	31	5.8	29	6.5	16	6.0	31			
30	SC525	93	22	10	7.3	15	6.1	24	6.6	23	6.2	18	5.6	35			
4	CZH0520	90	23	10	6.4	25	5.2	32	6.3	26	4.9	33	7.1	17			
20	CZH0528	90	24	8	6.8	22	5.9	27	6.2	29	5.4	27	5.7	34			
24	CZH0532	90	24	8	6.8	22	6.8	16	6.0	28	3.9	35	6.4	26			
28	SC403	87	24	10	6.9	19	4.9	34	6.0	32	5.1	32	6.3	28			
Maturity group average		98	20	9	6.9	20	6.4	20	6.5	24	5.9	22	6.5	25			
<b>Entries with anthesis dates between 67 and 69 days</b>																	
31	SC527Q	111	11	10	7.9	6	7.7	2	7.9	10	8.2	1	8.3	1			
3	CZH04032	113	12	8	7.4	15	7.0	13	7.1	16	5.3	28	7.2	13			
25	CZH0533	110	13	9	7.8	11	7.3	7	7.8	10	7.8	4	7.5	6			
18	CZH0526	109	13	7	7.4	15	6.9	14	7.6	13	8.0	2	7.4	10			
5	CZH0521	108	13	9	7.7	9	7.4	5	7.3	15	6.0	22	7.6	5			
11	CZH04005	106	14	9	7.5	15	8.3	1	7.8	7	7.8	5	7.2	14			
1	CZH04034	106	14	10	7.4	13	5.7	29	7.6	11	7.0	12	7.1	15			
32	SC633	103	15	11	7.9	9	6.4	21	7.9	7	8.0	3	7.8	2			
22	CZH0530	106	16	9	7.4	14	6.9	15	7.3	15	6.7	13	7.1	16			
15	CZH0535	104	16	9	7.4	15	6.8	17	7.3	14	6.0	21	7.0	19			
19	CZH0527	104	16	9	7.2	18	7.3	8	7.5	14	7.4	8	6.5	24			
21	CZH0529	103	17	11	7.4	14	7.6	4	7.6	13	7.4	9	7.4	9			
14	CZH0534	102	17	11	6.8	23	6.5	20	7.3	15	7.6	7	7.5	7			
6	CZH0522	101	18	8	6.9	21	5.8	28	6.8	21	5.1	31	6.4	25			
7	CZH0523	96	20	8	7.1	16	7.3	10	6.9	20	6.2	19	7.0	18			
9	CZH04001	94	21	9	6.7	23	6.7	18	7.5	10	6.6	14	7.3	11			
2	CZH04035	93	21	11	6.4	22	5.2	33	6.8	22	5.7	26	6.4	27			
27	PHB30B50	86	22	12	6.2	26	4.0	35	7.4	15	7.1	11	7.6	4			
34	Local Check1	89	23	9	6.6	24	5.9	25	7.2	17	6.2	20	6.6	23			
35	Local Check2	88	23	11	5.5	32	6.1	23	6.9	22	5.9	23	6.8	21			
Maturity group average		102	17	9	7.1	17	6.6	16	7.4	14	6.8	14	7.2	14			
<b>Entries with anthesis dates greater than 70 days</b>																	
8	CZH0536	110	13	9	7.7	10	7.1	11	7.4	12	5.2	30	7.7	3			
26	WH403	99	18	10	7.2	15	6.4	22	7.3	15	5.8	25	6.1	30			
33	CZH0537	87	25	7	6.4	27	5.6	30	6.3	28	4.6	34	5.8	33			
Maturity group average		99	19	9	7.1	17	6.4	21	7.0	18	5.2	30	6.5	22			
<b>Mean</b>		100	18	9	7.06	18	6.52	18	7.05	18	6.35	18	6.89	18			
<b>LSD (0.05)</b>		8	4	1	0.72	6	1.08	10	0.70	7	1.93	10	1.03	10			
<b>Min</b>		86	11	7	5.51	6	3.97	1	5.81	7	3.93	1	5.62	1			
<b>Max</b>		113	25	12	7.91	32	8.35	35	7.93	32	8.18	35	8.31	35			
<b>NumSignificantSites</b>		29	29	29	5	5	1	4	4	1	1	1	1	1			

ElHYB06: Results of evaluation of early and intermediate maturing hybrids from CIMMYT, Seedco, Pioneer and Western Seed across 30 sites in eastern and southern Africa, 2005/06. Table 4E

Entry	Name	Mid Altitude Humid Hot (Zone B) - Grain Yields								Mid Altitude Dry (Zone C) - Grain Yields				
		Across			Across		Katrin Tan		Raltray-Arnold Zim		Across		LES Swa	
		RelGY	Rank	StdDev	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo
	%	Avg		t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	
<b>Entries with anthesis dates between 64 and 66 days</b>														
16	CZH0524	112	13	10	6.8	21	5.7	29	9.4	6	2.5	16	6.2	3
12	CZH03005	107	15	8	7.3	15	6.5	16	9.1	18	2.6	10	5.0	23
29	SC411	103	16	8	7.4	15	5.8	26	9.3	12	2.3	17	4.9	26
13	CZH04003	102	19	10	6.9	23	5.7	30	8.0	27	2.4	17	4.6	33
17	CZH0525	101	19	10	6.6	26	5.3	33	8.7	24	2.8	13	5.1	17
10	CZH04002	98	20	9	6.4	26	5.9	24	7.4	32	2.3	18	4.8	27
23	CZH0531	98	21	10	5.8	29	5.5	32	5.2	35	2.5	15	5.5	10
30	SC525	93	22	10	6.6	23	5.0	34	9.5	3	2.1	26	5.3	13
4	CZH0520	90	23	10	6.3	26	6.2	21	7.1	34	2.3	22	5.4	11
20	CZH0528	90	24	8	6.2	29	5.8	25	7.9	28	2.3	20	5.0	21
24	CZH0532	90	24	8	6.0	28	6.3	20	7.6	30	2.0	28	5.6	9
28	SC403	87	24	10	6.0	32	5.0	35	7.5	31	2.1	24	5.3	12
Maturity group average		98	20	9	6.5	24	5.7	27	8.1	23	2.3	19	5.2	17
<b>Entries with anthesis dates between 67 and 69 days</b>														
31	SC527Q	111	11	10	7.9	10	6.0	23	9.1	16	2.4	14	5.2	15
3	CZH04032	113	12	8	7.1	16	6.8	9	9.2	14	2.9	8	5.1	16
25	CZH0533	110	13	9	7.8	10	6.9	7	9.0	21	2.6	13	4.9	25
18	CZH0526	109	13	7	7.6	13	6.6	13	8.3	26	2.5	17	5.7	7
5	CZH0521	108	13	9	7.3	15	6.6	14	9.0	20	2.8	13	4.8	28
11	CZH04005	106	14	9	7.8	7	7.0	3	9.5	5	2.5	19	4.7	30
1	CZH04034	106	14	10	7.6	11	6.9	6	9.3	11	2.7	10	6.0	4
32	SC633	103	15	11	7.9	7	6.0	22	9.9	2	2.2	21	5.0	19
22	CZH0530	106	16	9	7.3	15	6.8	8	8.7	23	2.9	12	5.0	20
15	CZH0535	104	16	9	7.3	14	6.9	5	9.3	9	2.2	21	5.7	6
19	CZH0527	104	16	9	7.5	14	6.3	18	9.5	4	2.3	16	4.2	34
21	CZH0529	103	17	11	7.6	13	6.6	12	8.9	22	2.5	18	4.1	35
14	CZH0534	102	17	11	7.3	15	6.7	11	7.2	33	2.5	12	5.2	14
6	CZH0522	101	18	8	6.8	21	6.8	10	9.0	19	2.2	19	4.7	31
7	CZH0523	96	20	8	6.9	20	6.6	15	7.7	29	2.4	21	5.8	5
9	CZH04001	94	21	9	7.5	10	6.9	4	9.3	10	2.1	24	6.2	2
2	CZH04035	93	21	11	6.8	22	5.7	28	9.4	7	2.3	18	5.1	18
27	PHB30B50	86	22	12	7.4	15	5.7	31	9.1	15	2.1	23	4.7	32
34	Local Check1	89	23	9	7.2	17	6.5	17	9.3	8	1.9	23	4.9	24
35	Local Check2	88	23	11	6.9	22	5.8	27	9.1	16	2.3	22	4.7	29
Maturity group average		102	17	9	7.4	14	6.5	14	9.0	16	2.4	17	5.1	20
<b>Entries with anthesis dates greater than 70 days</b>														
8	CZH0536	110	13	9	7.4	12	7.3	1	9.2	13	3.0	16	5.7	8
26	WH403	99	18	10	7.3	15	7.2	2	10.1	1	2.3	19	5.0	22
33	CZH0537	87	25	7	6.3	28	6.3	19	8.6	25	2.2	23	6.3	1
Maturity group average		99	19	9	7.0	18	6.9	7	9.3	13	2.5	19	5.7	10
<b>Mean</b>		100	18	9	7.05	18	6.27	18	8.70	18	2.40	18	5.18	18
<b>LSD (0.05)</b>		8	4	1	0.70	7	1.22	10	1.25	10	0.40	5	1.74	10
<b>Min</b>		86	11	7	5.81	7	4.98	1	5.25	1	1.86	8	4.06	1
<b>Max</b>		113	25	12	7.93	32	7.27	35	10.10	35	2.98	28	6.29	35
NumSignificantSites		29	29	29	4	4	1	1	5	5	0			

ElIHYB06: Results of evaluation of early and intermediate maturing hybrids from CIMMYT, Seedco, Pioneer and Western Seed across 30 sites in eastern and southern Africa, 2005/06. Table 4F

Mid Altitude Dry (Zone C) -Grain Yields														
Entry	Name	Across			Across		Afsf-Arusha Tan		Umbeluzi Moz		Umbeluzi Moz		Makoholi Zim	
		RelGY	Rank	StdDev	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo
		%	Avg		t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#
<b>Entries with anthesis dates between 64 and 66 days</b>														
16	CZH0524	112	13	10	2.5	16	5.0	8	2.4	20	3.0	13	0.8	27
12	CZH03005	107	15	8	2.6	10	4.0	24	2.4	18	3.9	3	1.3	4
29	SC411	103	16	8	2.3	17	3.8	27	2.7	15	2.3	27	1.1	8
13	CZH04003	102	19	10	2.4	17	4.0	23	2.9	13	3.3	8	1.0	19
17	CZH0525	101	19	10	2.8	13	3.8	29	3.7	1	4.2	2	1.0	20
10	CZH04002	98	20	9	2.3	18	4.9	10	2.4	19	2.1	31	1.0	18
23	CZH0531	98	21	10	2.5	15	3.8	28	3.2	7	3.2	9	1.1	12
30	SC525	93	22	10	2.1	26	4.6	16	2.5	16	1.9	33	0.8	32
4	CZH0520	90	23	10	2.3	22	4.4	19	1.7	30	3.6	5	0.8	30
20	CZH0528	90	24	8	2.3	20	3.7	33	2.9	10	2.5	24	0.9	24
24	CZH0532	90	24	8	2.0	28	4.2	22	1.9	28	2.4	26	0.8	31
28	SC403	87	24	10	2.1	24	6.1	2	1.4	33	1.7	35	1.0	17
Maturity group average		98	20	9	2.3	19	4.4	20	2.5	18	2.8	18	1.0	20
<b>Entries with anthesis dates between 67 and 69 days</b>														
31	SC527Q	111	11	10	2.4	14	3.1	35	2.9	12	3.0	12	1.1	10
3	CZH04032	113	12	8	2.9	8	5.8	3	3.6	2	2.8	19	1.2	5
25	CZH0533	110	13	9	2.6	13	4.4	18	3.5	5	3.0	14	1.1	15
18	CZH0526	109	13	7	2.5	17	4.5	17	2.9	11	2.7	20	0.8	28
5	CZH0521	108	13	9	2.8	13	5.5	5	2.9	14	3.6	6	0.9	23
11	CZH04005	106	14	9	2.5	19	5.4	6	2.0	27	3.1	11	0.7	33
1	CZH04034	106	14	10	2.7	10	4.8	11	3.3	6	3.0	15	1.1	16
32	SC633	103	15	11	2.2	21	4.3	20	2.5	17	2.2	29	0.7	35
22	CZH0530	106	16	9	2.9	12	4.7	15	3.2	8	4.4	1	1.4	3
15	CZH0535	104	16	9	2.2	21	3.8	30	2.1	24	2.9	16	1.1	14
19	CZH0527	104	16	9	2.3	16	5.0	9	1.4	34	2.7	22	1.1	13
21	CZH0529	103	17	11	2.5	18	3.7	31	3.6	3	3.6	4	1.0	21
14	CZH0534	102	17	11	2.5	12	3.2	34	3.5	4	3.6	7	1.1	9
6	CZH0522	101	18	8	2.2	19	3.9	25	2.2	22	2.7	21	1.1	11
7	CZH0523	96	20	8	2.4	21	5.2	7	3.1	9	2.1	32	0.9	26
9	CZH04001	94	21	9	2.1	24	3.9	26	1.7	29	3.1	10	0.8	29
2	CZH04035	93	21	11	2.3	18	4.7	13	1.5	32	2.9	18	1.2	6
27	PHB30B50	86	22	12	2.1	23	4.8	12	1.6	31	1.8	34	0.7	34
34	Local Check1	89	23	9	1.9	23	3.7	32	0.8	35	2.1	30	1.5	1
35	Local Check2	88	23	11	2.3	22	5.7	4	2.0	26	2.6	23	0.9	25
Maturity group average		102	17	9	2.4	17	4.5	18	2.5	18	2.9	17	1.0	18
<b>Entries with anthesis dates greater than 70 days</b>														
8	CZH0536	110	13	9	3.0	16	8.1	1	2.1	25	2.4	25	1.4	2
26	WH403	99	18	10	2.3	19	4.2	21	2.2	21	2.9	17	1.2	7
33	CZH0537	87	25	7	2.2	23	4.7	14	2.1	23	2.3	28	0.9	22
Maturity group average		99	19	9	2.5	19	5.7	12	2.1	23	2.5	23	1.2	10
<b>Mean</b>		<b>100</b>	<b>18</b>	<b>9</b>	<b>2.40</b>	<b>18</b>	<b>4.55</b>	<b>18</b>	<b>2.48</b>	<b>18</b>	<b>2.84</b>	<b>18</b>	<b>1.01</b>	<b>18</b>
<b>LSD (0.05)</b>		<b>8</b>	<b>4</b>	<b>1</b>	<b>0.40</b>	<b>5</b>	<b>0.83</b>	<b>10</b>	<b>1.01</b>	<b>10</b>	<b>1.16</b>	<b>10</b>	<b>0.48</b>	<b>10</b>
<b>Min</b>		<b>86</b>	<b>11</b>	<b>7</b>	<b>1.86</b>	<b>8</b>	<b>3.11</b>	<b>1</b>	<b>0.76</b>	<b>1</b>	<b>1.70</b>	<b>1</b>	<b>0.69</b>	<b>1</b>
<b>Max</b>		<b>113</b>	<b>25</b>	<b>12</b>	<b>2.98</b>	<b>28</b>	<b>8.05</b>	<b>35</b>	<b>3.66</b>	<b>35</b>	<b>4.41</b>	<b>35</b>	<b>1.53</b>	<b>35</b>
NumSignificantSites		29	29	29	5	5	1	1	1	1	1	1	1	1

EIHYB06: Results of evaluation of early and intermediate maturing hybrids from CIMMYT, Seedco, Pioneer and Western Seed across 30 sites in eastern and southern Africa, 2005/06. Table 4G

Entry	Name	Mid Altitude Dry (Zone C) -Grain Yields										
		Across			Across		Makoholi Zim		Kadoma Zim		Makoholi Zim	
		RelGY	Rank	StdDev	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo
	%	Avg	StdDev	t/ha	#	t/ha	#	t/ha	#	t/ha	#	
<b>Entries with anthesis dates between 64 and 66 days</b>												
16	CZH0524	112	13	10	2.5	16	0.8	27	12.8	6	1.3	12
12	CZH03005	107	15	8	2.6	10	1.3	4	10.0	24	1.5	3
29	SC411	103	16	8	2.3	17	1.1	8	14.5	4	1.3	9
13	CZH04003	102	19	10	2.4	17	1.0	19	11.7	13	1.0	22
17	CZH0525	101	19	10	2.8	13	1.0	20	9.3	27	1.2	15
10	CZH04002	98	20	9	2.3	18	1.0	18	9.0	30	1.2	14
23	CZH0531	98	21	10	2.5	15	1.1	12	9.4	26	1.1	20
30	SC525	93	22	10	2.1	26	0.8	32	11.6	16	0.8	31
4	CZH0520	90	23	10	2.3	22	0.8	30	12.3	8	0.9	24
20	CZH0528	90	24	8	2.3	20	0.9	24	11.8	12	1.3	11
24	CZH0532	90	24	8	2.0	28	0.8	31	8.9	32	0.7	32
28	SC403	87	24	10	2.1	24	1.0	17	11.7	15	0.4	35
Maturity group average		98	20	9	2.3	19	1.0	20	11.1	18	1.1	19
<b>Entries with anthesis dates between 67 and 69 days</b>												
31	SC527Q	111	11	10	2.4	14	1.1	10	15.9	3	1.7	1
3	CZH04032	113	12	8	2.9	8	1.2	5	11.1	19	1.3	10
25	CZH0533	110	13	9	2.6	13	1.1	15	9.0	29	1.2	13
18	CZH0526	109	13	7	2.5	17	0.8	28	6.4	35	1.4	7
5	CZH0521	108	13	9	2.8	13	0.9	23	11.0	20	1.2	18
11	CZH04005	106	14	9	2.5	19	0.7	33	10.9	21	1.2	19
1	CZH04034	106	14	10	2.7	10	1.1	16	11.8	11	1.6	2
32	SC633	103	15	11	2.2	21	0.7	35	17.5	1	1.5	6
22	CZH0530	106	16	9	2.9	12	1.4	3	10.3	23	0.6	33
15	CZH0535	104	16	9	2.2	21	1.1	14	8.0	33	1.0	23
19	CZH0527	104	16	9	2.3	16	1.1	13	12.4	7	1.5	4
21	CZH0529	103	17	11	2.5	18	1.0	21	9.0	31	0.8	30
14	CZH0534	102	17	11	2.5	12	1.1	9	11.9	10	1.4	8
6	CZH0522	101	18	8	2.2	19	1.1	11	11.7	14	1.2	16
7	CZH0523	96	20	8	2.4	21	0.9	26	13.9	5	0.8	29
9	CZH04001	94	21	9	2.1	24	0.8	29	9.2	28	0.9	27
2	CZH04035	93	21	11	2.3	18	1.2	6	9.6	25	1.1	21
27	PHB30B50	86	22	12	2.1	23	0.7	34	10.6	22	1.5	5
34	Local Check1	89	23	9	1.9	23	1.5	1	11.1	18	1.2	17
35	Local Check2	88	23	11	2.3	22	0.9	25	17.3	2	0.5	34
Maturity group average		102	17	9	2.4	17	1.0	18	11.4	18	1.2	16
<b>Entries with anthesis dates greater than 70 days</b>												
8	CZH0536	110	13	9	3.0	16	1.4	2	11.5	17	0.9	25
26	WH403	99	18	10	2.3	19	1.2	7	12.2	9	0.9	28
33	CZH0537	87	25	7	2.2	23	0.9	22	7.6	34	0.9	26
Maturity group average		99	19	9	2.5	19	1.2	10	10.4	20	0.9	26
<b>Mean</b>		100	18	9	2.40	18	1.01	18	11.22	18	1.12	18
<b>LSD (0.05)</b>		8	4	1	0.40	5	0.48	10	6.80	10	0.63	10
<b>Min</b>		86	11	7	1.86	8	0.69	1	6.41	1	0.44	1
<b>Max</b>		113	25	12	2.98	28	1.53	35	17.53	35	1.69	35
NumSignificantSites		29	29	29	5	5	1	0		1		

**EIHBYB06: Results of evaluation of early and intermediate maturing hybrids from CIMMYT, Seedco, Pioneer and Western Seed across 30 sites in eastern and southern Africa, 2005/06.** Table 4H

Entry	Name	Lowland Tropical Humid (Zone D) - Grain Yields						Lowland Tropical Dry (Zone E) - Grain Yields							
		Across			Across			Ilonga Tan		Cholima Tan		Across		Nanga Zam	
		RelGY	Rank	StdDev	GrainYield	RankNo	#	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo
	%	Avg	t/ha	t/ha	t/ha	t/ha	t/ha	t/ha	t/ha	t/ha	t/ha	t/ha	t/ha		
<b>Entries with anthesis dates between 64 and 66 days</b>															
16	CZH0524	112	13	10	4.7	12	5.3	2	4.1	21	3.7	10	3.2	6	
12	CZH03005	107	15	8	3.5	26	3.1	26	3.9	26	3.7	12	2.9	15	
29	SC411	103	16	8	4.7	12	4.4	10	5.0	14	2.6	26	3.1	9	
13	CZH04003	102	19	10	5.0	8	4.6	7	5.4	8	3.4	18	2.2	32	
17	CZH0525	101	19	10	3.2	31	3.0	28	3.3	33	2.9	23	2.7	22	
10	CZH04002	98	20	9	3.5	27	3.0	29	4.1	24	3.2	16	2.5	27	
23	CZH0531	98	21	10	4.0	20	3.4	23	4.5	17	3.3	17	2.9	17	
30	SC525	93	22	10	4.7	12	3.9	18	5.5	6	3.1	18	3.0	12	
4	CZH0520	90	23	10	4.6	12	4.0	14	5.3	9	3.6	11	3.3	5	
20	CZH0528	90	24	8	2.9	34	2.6	33	3.2	34	3.1	19	2.4	30	
24	CZH0532	90	24	8	4.1	18	4.0	15	4.3	20	3.1	19	2.4	29	
28	SC403	87	24	10	4.2	18	4.0	16	4.4	19	2.0	30	2.4	31	
Maturity group average		98	20	9	4	19	4	18	4	19	3	18	3	20	
<b>Entries with anthesis dates between 67 and 69 days</b>															
31	SC527Q	111	11	10	4.6	13	3.6	21	5.5	5	3.5	18	2.5	25	
3	CZH04032	113	12	8	5.0	10	3.9	17	6.0	2	4.1	11	2.2	33	
25	CZH0533	110	13	9	3.5	29	3.1	27	3.8	30	3.8	13	3.0	13	
18	CZH0526	109	13	7	4.7	12	3.7	20	5.7	3	3.4	19	3.6	1	
5	CZH0521	108	13	9	5.3	4	5.0	3	5.6	4	3.8	17	2.7	20	
11	CZH04005	106	14	9	4.0	20	4.1	12	3.9	27	3.9	11	3.2	7	
1	CZH04034	106	14	10	5.4	4	4.8	6	6.0	1	3.7	14	2.9	14	
32	SC633	103	15	11	5.5	6	5.7	1	5.2	10	2.5	28	2.7	23	
22	CZH0530	106	16	9	3.6	27	3.3	24	3.9	29	3.3	19	2.5	26	
15	CZH0535	104	16	9	3.6	27	3.5	22	3.8	31	3.6	18	2.9	16	
19	CZH0527	104	16	9	4.5	14	4.9	5	4.1	22	3.1	22	3.4	3	
21	CZH0529	103	17	11	2.6	35	2.1	35	3.1	35	4.1	6	2.5	28	
14	CZH0534	102	17	11	4.6	12	4.5	8	4.7	16	4.5	6	2.6	24	
6	CZH0522	101	18	8	4.6	12	4.1	13	5.0	11	3.6	19	3.2	8	
7	CZH0523	96	20	8	3.4	27	2.8	31	4.1	23	3.3	20	3.3	4	
9	CZH04001	94	21	9	4.3	17	4.5	9	4.0	25	2.8	23	3.5	2	
2	CZH04035	93	21	11	3.8	22	2.6	32	5.0	12	3.3	19	3.1	11	
27	PHB30B50	86	22	12	5.2	6	4.9	4	5.5	7	2.7	29	2.7	21	
34	Local Check1	89	23	9	3.4	26	2.5	34	4.4	18	3.0	24	2.8	18	
35	Local Check2	88	23	11	3.9	24	3.8	19	3.9	28	3.5	12	2.0	34	
Maturity group average		102	17	9	4	17	4	17	5	17	3	17	3	17	
<b>Entries with anthesis dates greater than 70 days</b>															
8	CZH0536	110	13	9	4.5	13	4.4	11	4.7	15	4.1	11	3.1	10	
26	WH403	99	18	10	4.1	19	3.3	25	5.0	13	2.3	31	1.5	35	
33	CZH0537	87	25	7	3.1	31	2.8	30	3.3	32	3.2	22	2.8	19	
Maturity group average		99	19	9	4	21	3	22	4	20	3	21	2	21	
<b>Mean</b>		100	18	9	4.18	18	3.81	18	4.54	18	3.33	18	2.79	18	
<b>LSD (0.05)</b>		8	4	1	0.95	9	1.21	10	1.47	10	0.89	6	1.20	10	
<b>Min</b>		86	11	7	2.58	4	2.08	1	3.09	1	2.00	6	1.50	1	
<b>Max</b>		113	25	12	5.45	35	5.74	35	6.05	35	4.54	31	3.60	35	
NumSignificantSites		29	29	29	2	2	1	1	1	3	3	0			



**EIHYB06: Results of evaluation of early and intermediate maturing hybrids from CIMMYT, Seedco, Pioneer and Western Seed across 30 sites in eastern and southern Africa, 2005/06.**

**Table 4I**

Lowland Tropical Dry (Zone E) - Grain Yields																
Entry	Name	Across			Across		Nanga Zam		Nampula Moz		Nampula Moz		Save Valley Zim		Chiredzi Zim	
		RelGY	Rank	StdDev	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo
		%	Avg	StdDev	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#
<b>Entries with anthesis dates between 64 and 66 days</b>																
16	CZH0524	112	13	10	3.7	10	3.2	6	5.5	13	4.2	9	2.2	10	1.5	7
12	CZH03005	107	15	8	3.7	12	2.9	15	5.4	14	3.6	20	1.4	30	2.3	2
29	SC411	103	16	8	2.6	26	3.1	9	3.9	29	2.7	30	2.1	13	1.2	18
13	CZH04003	102	19	10	3.4	18	2.2	32	4.9	23	3.1	28	2.8	2	2.1	3
17	CZH0525	101	19	10	2.9	23	2.7	22	3.8	31	3.5	25	1.7	22	1.3	12
10	CZH04002	98	20	9	3.2	16	2.5	27	3.8	30	4.1	12	2.5	7	1.6	5
23	CZH0531	98	21	10	3.3	17	2.9	17	5.2	15	3.2	27	1.7	24	1.4	9
30	SC525	93	22	10	3.1	18	3.0	12	3.5	34	3.6	19	2.7	4	2.3	1
4	CZH0520	90	23	10	3.6	11	3.3	5	5.0	20	4.2	8	2.1	12	1.5	6
20	CZH0528	90	24	8	3.1	19	2.4	30	5.2	18	2.6	31	1.2	32	1.4	8
24	CZH0532	90	24	8	3.1	19	2.4	29	4.1	28	4.0	13	2.0	14	1.3	15
28	SC403	87	24	10	2.0	30	2.4	31	2.4	35	2.5	33	2.1	11	1.1	23
Maturity group average		98	20	9	3.1	18	2.7	20	4.4	24	3.4	21	2.0	15	1.6	9
<b>Entries with anthesis dates between 67 and 69 days</b>																
31	SC527Q	111	11	10	3.5	18	2.5	25	6.1	8	4.1	11	1.0	34	0.3	35
3	CZH04032	113	12	8	4.1	11	2.2	33	6.0	11	5.1	2	1.9	17	1.2	19
25	CZH0533	110	13	9	3.8	13	3.0	13	6.3	5	4.3	5	2.7	5	0.8	30
18	CZH0526	109	13	7	3.4	19	3.6	1	5.2	17	3.8	17	1.3	31	1.1	22
5	CZH0521	108	13	9	3.8	17	2.7	20	6.8	2	3.9	15	1.6	25	0.8	33
11	CZH04005	106	14	9	3.9	11	3.2	7	6.5	4	3.8	16	1.1	33	1.3	14
1	CZH04034	106	14	10	3.7	14	2.9	14	6.1	7	4.3	4	1.5	28	0.8	32
32	SC633	103	15	11	2.5	28	2.7	23	5.0	21	1.8	35	2.3	9	0.8	29
22	CZH0530	106	16	9	3.3	19	2.5	26	5.2	15	3.5	22	1.9	16	1.2	20
15	CZH0535	104	16	9	3.6	18	2.9	16	6.3	6	3.5	21	0.6	35	1.0	26
19	CZH0527	104	16	9	3.1	22	3.4	3	4.4	27	3.5	23	3.1	1	1.2	17
21	CZH0529	103	17	11	4.1	6	2.5	28	5.8	12	4.9	3	1.9	19	1.7	4
14	CZH0534	102	17	11	4.5	6	2.6	24	6.5	3	5.8	1	2.8	3	1.3	13
6	CZH0522	101	18	8	3.6	19	3.2	8	6.0	10	3.8	18	1.8	20	1.0	28
7	CZH0523	96	20	8	3.3	20	3.3	4	4.9	24	3.9	14	1.6	26	1.1	21
9	CZH04001	94	21	9	2.8	23	3.5	2	3.5	33	3.4	26	1.5	27	1.4	10
2	CZH04035	93	21	11	3.3	19	3.1	11	6.1	9	2.6	32	1.7	23	1.2	16
27	PHB30B50	86	22	12	2.7	29	2.7	21	4.4	26	2.8	29	2.6	6	0.8	31
34	Local Check1	89	23	9	3.0	24	2.8	18	4.5	25	3.5	24	1.5	29	1.1	24
35	Local Check2	88	23	11	3.5	12	2.0	34	5.0	19	4.2	6	2.4	8	1.3	11
Maturity group average		102	17	9	3.5	17	2.9	17	5.5	14	3.8	16	1.8	20	1.1	22
<b>Entries with anthesis dates greater than 70 days</b>																
8	CZH0536	110	13	9	4.1	11	3.1	10	7.2	1	4.2	7	1.8	21	1.0	25
26	WH403	99	18	10	2.3	31	1.5	35	3.8	32	2.1	34	2.0	15	1.0	27
33	CZH0537	87	25	7	3.2	22	2.8	19	4.9	22	4.1	10	1.9	18	0.6	34
Maturity group average		99	19	9	3.2	21	2.4	21	5.3	18	3.5	17	1.9	18	0.9	29
<b>Mean</b>		<b>100</b>	<b>18</b>	<b>9</b>	<b>3.33</b>	<b>18</b>	<b>2.79</b>	<b>18</b>	<b>5.11</b>	<b>18</b>	<b>3.67</b>	<b>18</b>	<b>1.92</b>	<b>18</b>	<b>1.22</b>	<b>18</b>
<b>LSD (0.05)</b>		<b>8</b>	<b>4</b>	<b>1</b>	<b>0.89</b>	<b>6</b>	<b>1.20</b>	<b>10</b>	<b>2.04</b>	<b>10</b>	<b>1.53</b>	<b>10</b>	<b>1.50</b>	<b>10</b>	<b>0.61</b>	<b>10</b>
<b>Min</b>		<b>86</b>	<b>11</b>	<b>7</b>	<b>2.00</b>	<b>6</b>	<b>1.50</b>	<b>1</b>	<b>2.39</b>	<b>1</b>	<b>1.77</b>	<b>1</b>	<b>0.63</b>	<b>1</b>	<b>0.31</b>	<b>1</b>
<b>Max</b>		<b>113</b>	<b>25</b>	<b>12</b>	<b>4.54</b>	<b>31</b>	<b>3.60</b>	<b>35</b>	<b>7.18</b>	<b>35</b>	<b>5.84</b>	<b>35</b>	<b>3.15</b>	<b>35</b>	<b>2.29</b>	<b>35</b>
NumSignificantSites		29	29	29	3	3	0		1		1		0		1	

EIHYB06: Results of evaluation of early and intermediate maturing hybrids from CIMMYT, Seedco, Pioneer and Western Seed across 30 sites in eastern and southern Africa, 2005/06.

Table 4J

Entry	Name	N Stress - Grain Yields												
		Across			Across		Chitedze Mal		Afsf-Arusha Tan		Golden Valley Zam		Chokwe Moz	
		RelGY	Rank	StdDev	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo
	%	Avg		t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	
<b>Entries with anthesis dates between 64 and 66 days</b>														
16	CZH0524	112	13	10	2.9	10	4.6	1	4.8	6	2.4	8	2.6	32
12	CZH03005	107	15	8	2.9	13	3.4	17	4.5	10	1.8	20	4.0	15
29	SC411	103	16	8	3.1	9	3.5	14	4.7	8	2.1	14	4.5	7
13	CZH04003	102	19	10	2.9	14	3.9	7	4.3	15	2.9	1	3.6	23
17	CZH0525	101	19	10	2.7	17	3.1	20	3.9	23	2.0	15	3.8	19
10	CZH04002	98	20	9	2.7	18	2.6	33	4.8	7	2.0	16	2.9	28
23	CZH0531	98	21	10	2.5	23	2.7	29	2.6	35	1.8	19	4.3	9
30	SC525	93	22	10	2.0	28	4.2	2	2.9	32	1.4	28	2.5	34
4	CZH0520	90	23	10	2.2	29	3.0	21	2.9	33	1.1	30	3.9	17
20	CZH0528	90	24	8	2.6	19	3.0	23	3.5	26	1.5	27	4.0	14
24	CZH0532	90	24	8	2.4	25	3.6	13	3.1	29	2.2	12	3.5	24
28	SC403	87	24	10	2.6	20	3.8	10	4.2	18	1.8	21	2.7	31
Maturity group average		98	20	9	2.6	19	3.4	16	3.9	20	1.9	18	3.5	21
<b>Entries with anthesis dates between 67 and 69 days</b>														
31	SC527Q	111	11	10	2.9	13	3.8	9	3.1	28	2.7	2	4.6	6
3	CZH04032	113	12	8	3.2	11	2.9	25	5.7	2	2.3	11	4.3	10
25	CZH0533	110	13	9	3.2	8	3.0	22	4.5	12	2.5	5	5.0	1
18	CZH0526	109	13	7	3.0	10	3.5	16	4.5	9	1.6	22	4.7	3
5	CZH0521	108	13	9	2.7	20	4.1	3	4.9	5	2.2	13	3.5	25
11	CZH04005	106	14	9	2.7	16	3.2	19	4.4	13	2.5	6	3.2	26
1	CZH04034	106	14	10	2.8	16	3.6	12	4.5	11	1.9	18	4.0	16
32	SC633	103	15	11	2.8	20	4.0	4	3.9	22	2.6	3	3.7	22
22	CZH0530	106	16	9	3.0	11	3.9	5	4.4	14	2.4	7	4.6	5
15	CZH0535	104	16	9	2.9	12	2.8	26	4.3	16	2.5	4	3.0	27
19	CZH0527	104	16	9	2.6	18	2.7	28	4.0	19	1.9	17	3.8	20
21	CZH0529	103	17	11	2.8	15	3.8	8	3.6	25	2.3	10	4.1	12
14	CZH0534	102	17	11	2.6	22	2.0	35	3.0	31	1.6	25	5.0	2
6	CZH0522	101	18	8	3.1	12	3.5	15	5.4	3	2.3	9	4.0	13
7	CZH0523	96	20	8	2.8	19	2.6	32	5.3	4	0.6	35	4.3	11
9	CZH04001	94	21	9	2.3	24	3.3	18	4.2	17	1.0	33	2.8	29
2	CZH04035	93	21	11	2.4	23	2.9	24	3.9	21	0.8	34	4.7	4
27	PHB30B50	86	22	12	1.7	31	3.9	6	3.0	30	1.6	24	1.0	35
34	Local Check1	89	23	9	2.2	25	2.0	34	3.8	24	1.2	29	2.5	33
35	Local Check2	88	23	11	2.1	22	2.7	30	2.8	34	1.1	31	2.7	30
Maturity group average		102	17	9	2.7	17	3.2	19	4.2	17	1.9	17	3.8	17
<b>Entries with anthesis dates greater than 70 days</b>														
8	CZH0536	110	13	9	3.0	16	3.7	11	5.7	1	1.6	23	3.7	21
26	WH403	99	18	10	2.6	18	2.7	31	3.5	27	1.6	26	3.9	18
33	CZH0537	87	25	7	2.5	25	2.7	27	3.9	20	1.0	32	4.4	8
Maturity group average		99	19	9	2.7	19	3.0	23	4.4	16	1.4	27	4.0	16
<b>Mean</b>		<b>100</b>	<b>18</b>	<b>9</b>	<b>2.67</b>	<b>18</b>	<b>3.27</b>	<b>18</b>	<b>4.07</b>	<b>18</b>	<b>1.86</b>	<b>18</b>	<b>3.71</b>	<b>18</b>
<b>LSD (0.05)</b>		<b>8</b>	<b>4</b>	<b>1</b>	<b>0.63</b>	<b>6</b>	<b>1.45</b>	<b>10</b>	<b>1.45</b>	<b>10</b>	<b>1.18</b>	<b>10</b>	<b>1.70</b>	<b>10</b>
<b>Min</b>		<b>86</b>	<b>11</b>	<b>7</b>	<b>1.65</b>	<b>8</b>	<b>1.96</b>	<b>1</b>	<b>2.64</b>	<b>1</b>	<b>0.64</b>	<b>1</b>	<b>0.99</b>	<b>1</b>
<b>Max</b>		<b>113</b>	<b>25</b>	<b>12</b>	<b>3.18</b>	<b>31</b>	<b>4.57</b>	<b>35</b>	<b>5.74</b>	<b>35</b>	<b>2.90</b>	<b>35</b>	<b>5.02</b>	<b>35</b>
NumSignificantSites		29	29	29	5	5	0	1	1	1	1	1	1	1

EIHBY06: Results of evaluation of early and intermediate maturing hybrids from CIMMYT, Seedco, Pioneer and Western Seed across 30 sites in eastern and southern Africa, 2005/06.

Table 4K

Entry	Name	N Stress - Grain Yields								Low pH - Grain Yields						
		Across			Across		AREX Harare Zim		Harare Zim		Across		Tsangano Mal		Kasama Zam	
		RelGY	Rank	StdDev	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo
	%	Avg	StdDev	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#	
<b>Entries with anthesis dates between 64 and 66 days</b>																
16	CZH0524	112	13	10	2.9	10	0.5	1	4.2	1	3.3	6	0.83	3	5.76	9
12	CZH03005	107	15	8	2.9	13	0.4	18	4.1	3	3.2	11	0.46	17	5.84	5
29	SC411	103	16	8	3.1	9	0.4	12	3.8	6	3.0	16	0.39	21	5.69	11
13	CZH04003	102	19	10	2.9	14	0.4	14	3.3	19	2.5	30	0.27	29	4.73	30
17	CZH0525	101	19	10	2.7	17	0.4	11	3.4	15	3.3	7	0.72	8	5.80	6
10	CZH04002	98	20	9	2.7	18	0.3	32	3.7	9	3.1	13	0.69	9	5.45	16
23	CZH0531	98	21	10	2.5	23	0.3	29	3.2	21	3.3	5	0.75	6	5.87	3
30	SC525	93	22	10	2.0	28	0.4	17	2.8	31	2.8	23	0.35	26	5.27	20
4	CZH0520	90	23	10	2.2	29	0.2	35	2.9	30	2.5	30	0.24	32	4.85	28
20	CZH0528	90	24	8	2.6	19	0.3	21	3.9	5	2.5	29	0.28	28	4.80	29
24	CZH0532	90	24	8	2.4	25	0.3	30	2.9	29	3.1	14	0.36	24	5.84	4
28	SC403	87	24	10	2.6	20	0.3	28	3.9	4	2.9	24	0.23	33	5.55	14
Maturity group average		98	20	9	2.6	19	0.3	21	3.5	14	3.0	17	0.46	20	5.46	15
<b>Entries with anthesis dates between 67 and 69 days</b>																
31	SC527Q	111	11	10	2.9	13	0.3	22	3.7	7	3.6	10	0.43	18	6.73	1
3	CZH04032	113	12	8	3.2	11	0.5	4	3.2	26	3.1	10	0.93	1	5.28	19
25	CZH0533	110	13	9	3.2	8	0.4	6	3.3	17	2.9	16	0.82	5	4.91	26
18	CZH0526	109	13	7	3.0	10	0.4	8	3.7	8	3.5	5	0.74	7	6.26	2
5	CZH0521	108	13	9	2.7	20	0.3	24	2.7	32	3.1	14	0.50	15	5.63	12
11	CZH04005	106	14	9	2.7	16	0.4	13	3.2	22	3.0	16	0.50	14	5.42	17
1	CZH04034	106	14	10	2.8	16	0.4	10	3.2	25	2.4	29	0.36	23	4.51	34
32	SC633	103	15	11	2.8	20	0.3	33	3.3	18	3.1	14	0.41	20	5.80	8
22	CZH0530	106	16	9	3.0	11	0.5	2	3.1	27	3.0	16	0.41	19	5.55	13
15	CZH0535	104	16	9	2.9	12	0.4	9	4.2	2	3.2	10	0.57	12	5.80	7
19	CZH0527	104	16	9	2.6	18	0.4	7	3.0	28	3.0	13	0.83	4	5.16	22
21	CZH0529	103	17	11	2.8	15	0.4	15	3.6	11	2.8	19	0.57	13	5.03	25
14	CZH0534	102	17	11	2.6	22	0.3	26	3.2	24	2.7	28	0.21	34	5.24	21
6	CZH0522	101	18	8	3.1	12	0.3	25	3.6	10	2.6	27	0.34	27	4.85	27
7	CZH0523	96	20	8	2.8	19	0.3	27	3.4	16	2.6	22	0.59	10	4.55	33
9	CZH04001	94	21	9	2.3	24	0.3	23	3.3	20	2.5	28	0.36	25	4.70	31
2	CZH04035	93	21	11	2.4	23	0.3	20	2.3	35	2.4	31	0.26	30	4.60	32
27	PHB30B50	86	22	12	1.7	31	0.2	34	2.5	34	3.1	16	0.38	22	5.73	10
34	Local Check1	89	23	9	2.2	25	0.4	16	3.2	23	2.8	25	0.06	35	5.54	15
35	Local Check2	88	23	11	2.1	22	0.5	3	3.5	13	2.2	33	0.25	31	4.06	35
Maturity group average		102	17	9	2.7	17	0.4	16	3.3	20	2.9	19	0.48	18	5.27	20
<b>Entries with anthesis dates greater than 70 days</b>																
8	CZH0536	110	13	9	3.0	16	0.4	19	3.4	14	3.0	13	0.84	2	5.14	23
26	WH403	99	18	10	2.6	18	0.5	5	3.5	12	2.9	15	0.59	11	5.30	18
33	CZH0537	87	25	7	2.5	25	0.3	31	2.7	33	2.8	20	0.47	16	5.08	24
Maturity group average		99	19	9	2.7	19	0.4	18	3.2	20	2.9	16	0.63	10	5.17	22
<b>Mean</b>		<b>100</b>	<b>18</b>	<b>9</b>	<b>2.67</b>	<b>18</b>	<b>0.36</b>	<b>18</b>	<b>3.34</b>	<b>18</b>	<b>2.90</b>	<b>18</b>	<b>0.49</b>	<b>18</b>	<b>5.32</b>	<b>18</b>
<b>LSD (0.05)</b>		<b>8</b>	<b>4</b>	<b>1</b>	<b>0.63</b>	<b>6</b>	<b>0.12</b>	<b>10</b>	<b>0.93</b>	<b>10</b>	<b>0.55</b>	<b>8</b>	<b>0.31</b>	<b>10</b>	<b>1.06</b>	<b>10</b>
<b>Min</b>		<b>86</b>	<b>11</b>	<b>7</b>	<b>1.65</b>	<b>8</b>	<b>0.20</b>	<b>1</b>	<b>2.31</b>	<b>1</b>	<b>2.16</b>	<b>5</b>	<b>0.06</b>	<b>1</b>	<b>4.06</b>	<b>1</b>
<b>Max</b>		<b>113</b>	<b>25</b>	<b>12</b>	<b>3.18</b>	<b>31</b>	<b>0.55</b>	<b>35</b>	<b>4.23</b>	<b>35</b>	<b>3.58</b>	<b>33</b>	<b>0.93</b>	<b>35</b>	<b>6.73</b>	<b>35</b>
<b>NumSignificantSites</b>		<b>29</b>	<b>29</b>	<b>29</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

**EIHYB06: Results of evaluation of early and intermediate maturing hybrids from CIMMYT, Seedco, Pioneer and Western Seed across 3 sites in eastern and southern Africa, 2005/06.**

**Table 4L**

Entry	Name	MSV - Grain Yields						Unclassified Locations - Grain Yields								
		Across			Harare Zim			Across			Bwanje Mal		Moz		Runda Nam	
		RelGY	Rank	StdDev	GrainYield	RankNo	#	GrainYield	RankNo	#	GrainYield	RankNo	GrainYield	RankNo	GrainYield	RankNo
		%	Avg	StdDev	t/ha	#	t/ha	#	t/ha	#	t/ha	#	t/ha	#		
<b>Entries with anthesis dates between 64 and 66 days</b>																
16	CZH0524	112	13	10	12.05	1	8.84	24	7.84	16	0.65	27	9.84	32		
12	CZH03005	107	15	8	7.64	15	8.94	26	7.60	23	0.33	35	10.27	28		
29	SC411	103	16	8	6.71	25	9.92	16	7.73	19	0.37	33	12.12	12		
13	CZH04003	102	19	10	4.74	32	9.05	21	8.16	11	0.98	14	9.94	31		
17	CZH0525	101	19	10	7.48	17	10.05	12	8.31	8	1.32	5	11.78	16		
10	CZH04002	98	20	9	8.01	7	9.42	18	8.31	9	1.73	2	10.53	26		
23	CZH0531	98	21	10	6.67	27	8.91	25	6.44	31	1.56	3	11.38	19		
30	SC525	93	22	10	4.26	34	8.44	29	6.56	30	0.73	22	10.32	27		
4	CZH0520	90	23	10	5.34	30	9.57	20	7.19	26	1.30	7	11.96	14		
20	CZH0528	90	24	8	5.50	29	8.31	28	5.71	34	1.16	11	10.91	21		
24	CZH0532	90	24	8	6.77	24	8.31	31	6.92	28	0.71	24	9.70	33		
28	SC403	87	24	10	6.67	26	8.23	30	7.20	25	1.22	9	9.25	34		
Maturity group average		98	20	9	6.82	22	9.00	23	7.33	22	1.01	16	10.67	24		
<b>Entries with anthesis dates between 67 and 69 days</b>																
31	SC527Q	111	11	10	10.67	2	12.14	4	9.00	6	0.86	18	15.28	1		
3	CZH04032	113	12	8	4.48	33	10.40	9	8.18	10	0.50	29	12.62	8		
25	CZH0533	110	13	9	7.18	19	10.41	12	7.84	17	1.39	4	12.98	7		
18	CZH0526	109	13	7	7.82	11	10.55	11	9.59	4	0.62	28	11.50	18		
5	CZH0521	108	13	9	5.80	28	11.85	2	9.71	2	0.39	31	13.99	2		
11	CZH04005	106	14	9	9.27	4	10.71	9	9.75	1	0.69	25	11.67	17		
1	CZH04034	106	14	10	5.16	31	9.86	18	7.10	27	0.94	16	12.62	9		
32	SC633	103	15	11	7.73	14	9.83	17	7.67	21	1.31	6	11.99	13		
22	CZH0530	106	16	9	7.93	10	8.72	26	6.60	29	2.20	1	10.85	23		
15	CZH0535	104	16	9	10.59	3	9.78	18	9.42	5	1.16	12	10.13	30		
19	CZH0527	104	16	9	7.04	23	10.77	9	9.62	3	0.38	32	11.92	15		
21	CZH0529	103	17	11	7.49	16	8.23	31	6.32	33	0.65	26	10.14	29		
14	CZH0534	102	17	11	7.95	9	9.24	22	7.62	22	0.35	34	10.86	22		
6	CZH0522	101	18	8	7.08	21	10.61	10	8.10	13	0.79	21	13.11	6		
7	CZH0523	96	20	8	7.74	13	9.22	22	7.24	24	0.40	30	11.20	20		
9	CZH04001	94	21	9	8.87	5	9.44	19	8.10	14	1.22	8	10.77	24		
2	CZH04035	93	21	11	7.29	18	10.53	10	7.89	15	0.93	17	13.17	5		
27	PHB30B50	86	22	12	1.32	35	10.42	9	8.42	7	0.97	15	12.43	11		
34	Local Check1	89	23	9	8.71	6	8.57	29	6.39	32	1.11	13	10.75	25		
35	Local Check2	88	23	11	7.82	12	9.06	20	4.73	35	1.17	10	13.40	4		
Maturity group average		102	17	9	7.40	16	10.02	15	7.97	16	0.90	19	12.07	14		
<b>Entries with anthesis dates greater than 70 days</b>																
8	CZH0536	110	13	9	7.06	22	10.34	11	8.12	12	0.85	20	12.55	10		
26	WH403	99	18	10	7.99	8	10.58	12	7.69	20	0.85	19	13.46	3		
33	CZH0537	87	25	7	7.10	20	8.42	27	7.83	18	0.73	23	9.01	35		
Maturity group average		99	19	9	7.38	17	9.78	16	7.88	17	0.81	21	11.68	16		
<b>Mean</b>		<b>100</b>	<b>18</b>	<b>9</b>	<b>7.20</b>	<b>18</b>	<b>9.65</b>	<b>18</b>	<b>7.74</b>	<b>18</b>	<b>0.93</b>	<b>18</b>	<b>11.55</b>	<b>18</b>		
<b>LSD (0.05)</b>		<b>8</b>	<b>4</b>	<b>1</b>	<b>2.55</b>	<b>10</b>	<b>1.36</b>	<b>8</b>	<b>1.79</b>	<b>10</b>	<b>0.96</b>	<b>10</b>	<b>2.05</b>	<b>10</b>		
<b>Min</b>		<b>86</b>	<b>11</b>	<b>7</b>	<b>1.32</b>	<b>1</b>	<b>8.23</b>	<b>2</b>	<b>4.73</b>	<b>1</b>	<b>0.33</b>	<b>1</b>	<b>9.01</b>	<b>1</b>		
<b>Max</b>		<b>113</b>	<b>25</b>	<b>12</b>	<b>12.05</b>	<b>35</b>	<b>12.14</b>	<b>31</b>	<b>9.75</b>	<b>35</b>	<b>2.20</b>	<b>35</b>	<b>15.28</b>	<b>35</b>		
NumSignificantSites		29	29	29	1		2	2	1		0		1			

ElHYB06: Results of evaluation of early and intermediate maturing hybrids from CIMMYT, Seedco, Pioneer and Western Seed across 30 sites in eastern and southern Africa, 2005/06. Table 4M

Entry	Name	Across			Zone E			N Stress			Low pH
		RelGY	Rank	ASI	Ears/Plant	Leaf Sen	ASI	Ears/Plant	Leaf Sen	ASI	
		%	Avg	StdDev	d	#	0-10	d	#	0-10	d
<b>Entries with anthesis dates between 64 and 66 days</b>											
16	CZH0524	112	13	10	3.7	0.81	2.1	6.9	0.82	7.0	3.3
12	CZH03005	107	15	8	1.4	0.83	2.3	3.6	0.84	7.3	3.7
29	SC411	103	16	8	2.5	0.85	1.8	3.8	0.86	7.0	4.3
13	CZH04003	102	19	10	2.6	0.83	2.0	3.5	0.80	7.1	5.5
17	CZH0525	101	19	10	5.4	0.90	3.3	4.6	0.88	7.5	4.0
10	CZH04002	98	20	9	3.2	0.81	2.3	2.8	0.84	8.1	3.3
23	CZH0531	98	21	10	1.8	0.85	3.8	3.7	0.85	7.2	2.7
30	SC525	93	22	10	2.0	0.80	2.3	4.1	0.82	6.7	3.7
4	CZH0520	90	23	10	5.7	0.92	1.6	4.9	0.77	7.1	6.2
20	CZH0528	90	24	8	2.4	0.82	5.0	4.4	0.83	7.4	3.2
24	CZH0532	90	24	8	6.2	0.70	2.9	4.3	0.80	7.1	4.5
28	SC403	87	24	10	9.6	0.65	4.0	4.5	0.77	7.1	4.2
Maturity group average		98	20	9	3.9	0.82	2.8	4.3	0.82	7.2	4.0
<b>Entries with anthesis dates between 67 and 69 days</b>											
31	SC527Q	111	11	10	11.4	0.44	5.7	3.4	0.83	6.4	3.2
3	CZH04032	113	12	8	6.1	0.74	2.5	3.8	0.84	5.5	3.2
25	CZH0533	110	13	9	7.6	0.63	4.5	4.0	0.84	6.0	2.5
18	CZH0526	109	13	7	6.9	0.78	3.7	3.6	0.82	6.1	5.3
5	CZH0521	108	13	9	2.5	0.67	5.1	4.8	0.82	5.9	2.0
11	CZH04005	106	14	9	5.5	0.82	2.8	4.1	0.78	6.7	5.5
1	CZH04034	106	14	10	3.4	0.71	3.7	3.5	0.80	6.3	4.4
32	SC633	103	15	11	9.2	0.57	3.8	3.6	0.84	6.6	5.3
22	CZH0530	106	16	9	3.2	0.72	4.1	2.5	0.84	6.4	3.7
15	CZH0535	104	16	9	6.8	0.69	2.9	4.6	0.79	6.2	6.8
19	CZH0527	104	16	9	4.1	0.85	2.6	3.1	0.85	6.6	5.2
21	CZH0529	103	17	11	4.6	0.74	3.4	4.4	0.74	6.2	5.0
14	CZH0534	102	17	11	1.8	0.86	3.5	3.3	0.83	7.2	4.8
6	CZH0522	101	18	8	5.6	0.96	2.9	2.9	0.93	6.4	6.7
7	CZH0523	96	20	8	3.2	0.98	3.3	5.1	0.83	6.5	5.7
9	CZH04001	94	21	9	3.4	0.83	2.3	3.9	0.73	7.8	3.3
2	CZH04035	93	21	11	3.9	0.92	2.5	3.0	0.77	6.7	4.3
27	PHB30B50	86	22	12	6.0	0.66	1.7	3.3	0.70	7.8	2.0
34	Local Check1	89	23	9	5.5	0.62	4.5	4.4	0.70	6.6	6.0
35	Local Check2	88	23	11	2.3	0.74	3.4	5.3	0.72	7.0	5.0
Maturity group average		102	17	9	5.1	0.75	3.4	3.8	0.80	6.5	4.5
<b>Entries with anthesis dates greater than 70 days</b>											
8	CZH0536	110	13	9	4.9	0.69	5.4	3.7	0.75	5.8	3.5
26	WH403	99	18	10	6.7	0.68	3.3	2.6	0.87	5.7	4.8
33	CZH0537	87	25	7	12.7	0.60	3.6	4.2	0.71	6.2	5.4
Maturity group average		99	19	9	8.1	0.66	4.1	3.5	0.77	5.9	4.6
<b>Mean</b>		100	18	9	5.0	0.76	3.3	3.9	0.81	6.7	4.3
<b>LSD (0.05)</b>		8	4	1	5.1	0.20	2.1	2.0	0.11	0.8	0.4
<b>Min</b>		86	11	7	1.4	0.44	1.6	2.5	0.70	5.5	2.0
<b>Max</b>		113	25	12	12.7	0.98	5.7	6.9	0.93	8.1	6.8
NumSignificantSites		29	29	29	2	2	1	2	3	1	2

ILHYB06: Results of evaluation of intermediate and late maturing hybrids from CIMMYT, Seadco, Pioneer, Panmar and Western Seed across 30 sites in eastern and southern Africa, 2005/06.

Entry	Name	Across			Across			Across			Across			Across			Across			Across			Across			Across			Across			Across			Across																				
		RelYG	Rank	StDev	l/ha	RankNo	GrainYield	RankNo	BumbweMal	BembakeMal	ChitedzeMal	UkhriguruTan	KasamaZam	GwebeZim	ARTFarmZim	MidAltitudeHumidHot	MekokaMal	VerweruTan	RelYG	Rank	StDev	l/ha	RankNo	GrainYield	RankNo	BumbweMal	BembakeMal	ChitedzeMal	UkhriguruTan	KasamaZam	GwebeZim	ARTFarmZim	MidAltitudeHumidHot	MekokaMal	VerweruTan																				
Entries with anthesis dates between 60 and 70 days																																																							
3	CZH04007	117	9	5	7.9	7	5.9	6	8.3	1	8.7	6	2.9	12	7.4	5	11.8	3	10.7	7	6.7	12	10.8	4	8.2	8	9	CZH0511	119	9	7	8.0	6	4.1	2.3	7.0	8	9.0	4	11.6	6	10.9	5	7.7	5	11.7	2	8.8	3						
19	SC635	113	9	7	8.0	6	6.6	3	7.7	2	7.8	14	3.6	3	7.2	7	11.5	8	11.7	1	7.0	12	11.0	3	8.7	5	7	CZH055	117	10	7	8.0	6	6.6	3	7.7	2	7.8	14	3.6	3	7.2	7	11.5	8	11.7	1	7.0	12	11.0	3	8.7	5		
5	CZH052	111	11	8	7.3	12	5.6	8	4.8	28	8.5	7	2.7	15	7.2	6	11.5	7	8.2	27	6.8	10	9.3	8	7.3	12	8	CZH059	111	12	7	7.2	14	5.6	9	7.1	5	7.3	23	2.8	14	7.1	10	10.6	17	10.1	13	7.0	10	9.7	7	8.0	10		
4	CZH056	110	12	7	7.4	14	6.8	1	7.1	6	7.7	15	2.4	22	6.9	12	11.1	12	9.2	20	7.0	9	9.2	12	6.8	19	9	29	PAN 57	114	12	8	7.5	11	6.0	5	5.8	19	8.1	10	3.1	10	6.5	17	10.4	18	10.7	6	6.3	16	8.4	7			
27	PHB30V53	106	13	8	7.3	14	4.7	18	7.4	4	9.2	2	2.6	18	6.9	11	11.4	9	8.8	23	6.4	12	9.2	11	6.3	24	17	6	CZH054	108	14	8	7.3	15	5.1	12	6.2	14	7.3	24	1.0	3.1	6.8	13	13.3	1	10.3	10	6.8	11	9.0	15	6.9	17	
2	CZH04006	106	14	7	7.0	17	4.6	19	7.1	7	7.1	29	3.3	6	6.4	19	10.3	19	10.3	11	6.6	12	9.3	10	7.1	15	15	18	WH502	98	17	8	7.3	12	4.1	24	6.0	15	8.8	5	3.4	2	6.4	20	11.2	10	10.2	12	6.3	16	10.1	6	5.9	28	
1	CZH0025	99	18	8	6.6	21	6.0	4	4.9	27	7.2	26	2.2	24	6.2	23	8.5	31	9.7	16	6.3	16	8.6	19	7.2	13	13	1	CZH0025	99	18	8	6.6	21	6.0	4	4.9	27	7.2	26	2.2	24	6.2	23	8.5	31	9.7	16	6.3	16	8.6	19	7.2	13	13
30	PAN 77	97	19	8	6.5	20	4.0	26	5.9	16	7.5	19	3.3	5	6.1	25	10.7	16	7.6	29	5.5	23	6.3	28	6.0	27	27	32	LocalCheck	94	19	9	6.5	18	4.3	21	7.5	3	8.1	9	2.0	26	6.4	18	7.2	32	11.1	4	5.9	19	7.9	23	8.1	9	
32	LocalCheck	94	19	9	6.5	18	4.3	21	7.5	3	8.1	9	2.0	26	6.4	18	7.2	32	11.1	4	5.9	19	7.9	23	8.1	9	9	24	PHB30R73	91	20	9	6.6	21	3.5	28	5.8	18	7.2	27	2.2	23	7.2	8	10.1	22	9.4	17	5.0	23	5.1	6.2	25		
23	PHB30G97	93	20	7	6.5	20	4.1	25	5.8	20	7.7	16	3.0	11	6.6	16	9.5	28	8.4	26	5.7	20	6.7	27	6.8	18	18	10	CZH04022	90	21	8	6.6	21	4.3	22	6.6	11	7.4	20	1.6	29	6.1	24	10.8	14	9.3	19	5.0	27	7.2	25	7.1	14	
31	PAN 6M455	93	21	8	6.1	23	3.2	31	4.2	31	6.4	30	3.2	8	6.7	15	10.0	23	7.1	32	5.3	25	6.1	30	5.6	30	30	31	PAN 6M455	93	21	8	6.1	23	3.2	31	4.2	31	6.4	30	3.2	8	6.7	15	10.0	23	7.1	32	5.3	25	6.1	30	5.6	30	
16	CZH0519	88	22	7	6.5	23	4.8	16	4.9	26	7.2	28	1.8	27	5.4	31	10.8	15	9.0	21	5.6	23	7.8	24	6.7	20	23	16	CZH0519	88	22	7	6.5	23	4.8	16	4.9	26	7.2	28	1.8	27	5.4	31	10.8	15	9.0	21	5.6	23	7.8	24	6.7	20	
22	PHB3253	85	23	9	6.5	21	3.2	30	5.4	21	7.9	12	2.6	19	6.7	14	9.5	29	8.8	22	4.8	27	6.2	29	6.3	23	23	22	PHB3253	85	23	9	6.5	21	3.2	30	5.4	21	7.9	12	2.6	19	6.7	14	9.5	29	8.8	22	4.8	27	6.2	29	6.3	23	
Maturity group average																																																							
103		15	8	7.1	15	4.9	4.9	16	6.3	14	7.8	16	2.7	15	6.7	15	10.6	15	9.7	15	6.2	16	8.5	16	7.2	16	16	21	SC719	126	7	8	8.4	7	4.8	17	7.0	9	10.4	1	2.7	17	9.7	1	11.7	5	11.4	3	8.2	5	12.3	1	10.6	1	
Entries with anthesis dates greater than 70 days																																																							
20	SC637	109	12	10	7.9	8	3.4	29	5.1	25	9.0	3	3.3	4	9.3	2	12.0	2	10.3	9	6.9	9	9.3	9	9.0	2	2	28	PAN 53	99	15	8	7.1	16	5.1	14	6.8	10	8.2	8	1.5	30	6.1	26	11.2	11	10.4	8	6.9	9	10.6	5	7.4	11	
25	PHB30H83	100	16	11	6.6	19	2.2	32	4.6	29	7.7	17	2.5	20	7.4	4	9.6	26	10.0	14	5.4	18	4.3	32	8.5	6	6	17	WH505	98	17	7	6.6	21	3.8	27	5.2	24	7.4	21	2.8	13	6.2	22	9.7	25	9.8	15	6.4	14	8.2	20	6.5	22	
11	CZH0513	94	19	7	6.6	21	5.4	10	5.3	23	7.2	25	2.7	16	6.3	21	9.5	30	8.6	24	6.1	18	9.1	13	7.1	16	16	12	CZH0514	93	20	8	6.7	19	5.1	13	4.0	32	7.4	22	3.1	9	5.9	28	11.1	13	8.0	28	6.1	19	8.9	17	6.6	21	
14	CZH0517	93	20	7	6.8	19	5.6	7	6.5	12	8.1	11	2.5	21	5.8	29	10.3	20	8.5	25	6.0	21	8.9	16	6.1	26	21	14	CZH0517	93	20	7	6.8	19	5.6	7	6.5	12	8.1	11	2.5	21	5.8	29	10.3	20	8.5	25	6.0	21	8.9	16	6.1	26	
26	PHB30G19	85	23	6	6.6	22	4.5	20	6.3	13	7.9	13	2.1	25	6.0	27	9.6	27	9.3	18	5.6	21	8.1	21	5.7	29	29	26	PHB30G19	85	23	6	6.6	22	4.5	20	6.3	13	7.9	13	2.1	25	6.0	27	9.6	27	9.3	18	5.6	21	8.1	21	5.7	29	
15	CZH0518	73	27	5	5.9	27	5.0	15	4.5	30	6.1	31	1.7	28	5.0	32	9.9	24	7.5	30	5.0	28	8.0	22	5.0	32	32	15	CZH0518	73	27	5	5.9	27	5.0	15	4.5	30	6.1	31	1.7	28	5.0	32	9.9	24	7.5	30	5.0	28	8.0	22	5.0	32	
13	CZH0515	71	27	6	5.8	26	5.2	11	5.4	22	6.1	32	0.7	32	5.5	30	10.3	21	7.1	4.8	30	6.9	26	5.3	31	18	18	13	CZH0515	71	27	6	5.8	26	5.2	11	5.4	22	6.1	32	0.7	32	5.5	30	10.3	21	7.1	4.8	30	6.9	26	5.3	31		
Maturity group average																																																							
95		18	8	6.8	19	4.5	4.5	18	5.5	21	7.8	17	2.3	20	6.6	20	10.4	19	9.2	19	6.1	17	8.6	17	7.1	18	18	100	Mean	100	17	8	6.98	17	4.78	17	6.00	17	7.78	17	2.55	17	10.58	17	9.50	17	8.55	17	7.16	17					
13	LSD (0.05)	13	5	1	0.61	6	1.32	9	2.84	9	1.46	9	1.20	9	1.44	9	1.67	9	1.88	9	0.47	7	1.47	9	1.33	9	9	13	Min	13	5	1	0.61	6	1.32	9	2.84	9	1.46	9	1.20	9	1.44	9	1.67	9	1.88	9	0.47	7	1.47	9			
126	Max	126	27	11	8.43	27	6.80	32	8.28	32	10.37	32	3.63	32	9.72	32	13.29	32	11.73	32	8.23	30	12.34	32	10.57	32	32	126	Max	126	27	11	8.43	27	6.80	32	8.28	32	10.37	32	3.63	32	9.72	32	13.29	32	11.73	32	8.23	30	12.34	32	10.57	32	
30	Significant Sites	30	30	30	6	6	1	0	0	1	1	1	1	1	1	1	1	1	1	1	8	8	8	8	8	8	8	30	Significant Sites	30	30	30	6	6	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

**ILHYB06: Results of evaluation of intermediate and late maturing hybrids from CIMMYT, Seadco, Pioneer, Panmar and Western Seed across 30 sites in eastern and southern Africa, 2005/06.**

**Table 5C**

Entry	Name	Mid Altitude Humid Warm (Zone A) - Grain Yields						Mid Altitude Humid Hot (Zone B) - Grain Yields																		
		Across		Bumbwe Mal		Bembeke Mal		Chitedze Mal		Ukhriguru Tan		Kasama Zam		Gwebi/Zim		ART Farm Zim		Across		Mekoka Mal		Worweru Tan				
	RelCY	Rank	GrainYield	RankNo	l/ha	#	l/ha	#	l/ha	#	l/ha	#	l/ha	#	l/ha	#	l/ha	#	l/ha	#	l/ha	#	l/ha	#		
<b>Entries with anthesis dates between 60 and 70 days</b>																										
3	CZH04007	117	9	5	7.9	7	5.9	6	8.3	1	8.7	6	2.9	12	7.4	5	11.8	3	10.7	7	6.7	12	10.8	4	8.2	8
9	CZH0511	119	9	7	8.0	8	6.7	2	5.9	17	7.6	18	3.2	7	7.1	9	11.6	6	10.9	5	7.7	5	11.7	2	8.8	3
19	SC635	113	9	7	8.0	6	4.1	23	7.0	8	9.0	4	3.6	1	7.8	3	11.7	4	11.6	2	6.8	10	9.1	14	8.8	4
7	CZH055	117	10	7	8.0	6	6.6	3	7.7	2	7.8	14	3.4	3	7.2	7	11.5	8	11.7	1	7.0	12	11.0	3	8.7	5
5	CZH052	111	11	8	7.3	12	5.6	8	4.8	28	8.5	7	2.7	15	7.2	6	11.5	7	8.2	27	6.8	10	9.3	8	7.3	12
8	CZH059	111	12	7	7.2	14	5.6	9	7.1	5	7.3	23	2.8	14	7.1	10	10.6	17	10.1	13	7.0	10	9.7	7	8.0	10
4	CZH056	110	12	7	7.4	14	6.8	1	7.1	6	7.7	15	2.4	22	6.9	12	11.1	12	9.2	20	7.0	9	9.2	12	6.8	19
29	PAN 57	114	12	8	7.5	11	6.0	5	5.8	19	8.1	10	3.1	10	6.5	17	10.4	18	10.7	6	6.3	16	8.7	18	8.4	7
27	PHB30V53	106	13	8	7.3	14	4.7	18	7.4	4	9.2	2	2.6	18	6.9	11	11.4	9	8.8	23	6.4	12	9.2	11	6.3	24
6	CZH054	108	14	8	7.3	15	5.1	12	6.2	14	7.3	24	1.0	31	6.8	13	13.3	1	10.3	10	6.8	11	9.0	15	6.9	17
2	CZH04006	106	14	7	7.0	17	4.6	19	7.1	7	7.1	29	3.3	6	6.4	19	10.3	19	10.3	11	6.6	12	9.3	10	7.1	15
18	WH502	98	17	8	7.3	12	4.1	24	6.0	15	8.8	5	3.4	2	6.4	20	11.2	10	10.2	12	6.3	16	10.1	6	5.9	28
1	CZH0025	99	18	8	6.6	21	6.0	4	4.9	27	7.2	26	2.2	24	6.2	23	8.5	31	9.7	16	6.3	16	8.6	19	7.2	13
30	PAN 77	97	19	8	6.5	20	4.0	26	5.9	16	7.5	19	3.3	5	6.1	25	10.7	16	7.6	29	5.5	23	6.3	28	6.0	27
32	Local/Check	94	19	9	6.5	18	4.3	21	7.5	3	8.1	9	2.0	26	6.4	18	7.2	32	11.1	4	5.9	19	7.9	23	8.1	9
24	PHB30R73	91	20	9	6.6	21	3.5	28	5.8	18	7.2	27	2.2	23	7.2	8	10.1	22	9.4	17	5.0	23	5.1	31	6.2	25
23	PHB30G97	93	20	7	6.5	20	4.1	25	5.8	20	7.7	16	3.0	11	6.6	16	9.5	28	8.4	26	5.7	20	6.7	27	6.8	18
10	CZH04022	90	21	8	6.6	21	4.3	22	6.6	11	7.4	20	1.6	29	6.1	24	10.8	14	9.3	19	5.0	27	7.2	25	7.1	14
31	PAN 6M-55	93	21	8	6.1	23	3.2	31	4.2	31	6.4	30	3.2	8	6.7	15	10.0	23	7.1	32	5.3	25	6.1	30	5.6	30
16	CZH0519	88	22	7	6.5	23	4.8	16	4.9	26	7.2	28	1.8	27	5.4	31	10.8	15	9.0	21	5.6	23	7.8	24	6.7	20
22	PHB3253	85	23	9	6.5	21	3.2	30	5.4	21	7.9	12	2.6	19	6.7	14	9.5	29	8.8	22	4.8	27	6.2	29	6.3	23
Maturity group average		103	15	8	7.1	15	4.9	16	6.3	14	7.8	16	2.7	15	6.7	15	10.6	15	9.7	15	6.2	16	8.5	16	7.2	16
<b>Entries with anthesis dates greater than 70 days</b>																										
21	SC719	126	7	8	8.4	7	4.8	17	7.0	9	10.4	1	2.7	17	9.7	1	11.7	5	11.4	3	8.2	5	12.3	1	10.6	1
20	SC637	109	12	10	7.9	8	3.4	29	5.1	25	9.0	3	3.3	4	9.3	2	12.0	2	10.3	9	6.9	9	9.3	9	9.0	2
28	PAN 53	99	15	8	7.1	16	5.1	14	6.8	10	8.2	8	1.5	30	6.1	26	11.2	11	10.4	8	6.9	9	10.6	5	7.4	11
25	PHB30H83	100	16	11	6.6	19	2.2	32	4.6	29	7.7	17	2.5	20	7.4	4	9.6	26	10.0	14	5.4	18	4.3	32	8.5	6
17	WH505	98	17	7	6.6	21	3.8	27	5.2	24	7.4	21	2.8	13	6.2	22	9.7	25	9.8	15	6.4	14	8.2	20	6.5	22
11	CZH0513	94	19	7	6.6	21	5.4	10	5.3	23	7.2	25	2.7	16	6.3	21	9.5	30	8.6	24	6.1	18	9.1	13	7.1	16
12	CZH0514	93	20	8	6.7	19	5.1	13	4.0	32	7.4	22	3.1	9	5.9	28	11.1	13	8.0	28	6.1	19	8.9	17	6.6	21
14	CZH0517	93	20	7	6.8	19	5.6	7	6.5	12	8.1	11	2.5	21	5.8	29	10.3	20	8.5	25	6.0	21	8.9	16	6.1	26
26	PHB30G19	85	23	6	6.6	22	4.5	20	6.3	13	7.9	13	2.1	25	6.0	27	9.6	27	9.3	18	5.6	21	8.1	21	5.7	29
15	CZH0518	73	27	5	5.9	27	5.0	15	4.5	30	6.1	31	1.7	28	5.0	32	9.9	24	7.5	30	5.0	28	8.0	22	5.0	32
13	CZH0515	71	27	6	5.8	26	5.2	11	5.4	22	6.1	32	0.7	32	5.5	30	10.3	21	7.1	4.8	4.8	30	6.9	26	5.3	31
Maturity group average		95	18	8	6.8	19	4.5	18	5.5	21	7.8	17	2.3	20	6.6	20	10.4	19	9.2	19	6.1	17	8.6	17	7.1	18
Mean		100	17	8	6.98	17	4.78	17	6.00	17	7.78	17	2.55	17	6.69	17	10.58	17	9.50	17	6.19	17	8.55	17	7.16	17
LSD (0.05)		13	5	1	0.61	6	1.32	9	2.84	9	1.46	9	1.20	9	1.44	9	1.67	9	1.88	9	0.47	7	1.47	9	1.33	9
Min		71	7	5	5.82	6	2.17	1	3.97	1	6.11	1	0.69	1	5.04	1	7.24	1	7.09	1	4.76	5	4.27	1	5.03	1
Max		126	27	11	8.43	27	6.80	32	8.28	32	10.37	32	3.63	32	9.72	32	13.29	32	11.73	32	8.23	30	12.34	32	10.57	32
Significant Sites		30	30	30	6	6	1	0	0	1	1	1	1	1	1	1	1	1	1	1	8	8	8	1	1	



**ILHYB06: Results of evaluation of intermediate and late maturing hybrids from CIMMYT, Seadco, Pioneer, Pennar and Western Seed across 30 sites in eastern and southern Africa, 2005/06.**

**Table 5D**

Entry	Name	Mid Altitude Humid Hot (Zone B) - Grain Yields					Mid Altitude Dry (Zone C) - Grain Yields																			
		RelCY	Rank	Across	RankNo	#	RelCY	Rank	Across	RankNo	#															
		%	Avg	StdDev	l/ha	#	l/ha	#	l/ha	#	l/ha	#	l/ha	#	l/ha	#	l/ha	#	l/ha	#	l/ha	#	l/ha	#		
Entries with anthesis dates between 60 and 70 days																										
3	CZH04007	117	9	5	6.7	12	6.3	16	2.0	14	7.0	11	2.7	12	4.8	12	11.7	19	5.1	9	7.4	6	6.8	5	3.8	6
9	CZH0511	119	9	8	7.7	5	7.3	7	2.1	10	7.3	6	2.8	10	5.7	2	15.6	1	4.9	12	5.6	20	5.0	27	5.3	1
19	SC635	113	9	7	6.8	10	6.3	17	2.2	3	7.2	9	2.8	11	4.9	10	13.3	11	4.9	12	6.5	8	6.8	6	3.2	12
7	CZH055	117	10	7	7.0	12	5.3	27	1.9	19	7.3	7	3.5	5	3.9	21	14.2	5	5.1	10	7.8	4	7.7	2	2.6	22
5	CZH052	111	11	8	6.8	10	6.5	13	1.7	26	7.6	3	3.8	1	5.1	5	12.9	12	4.9	11	7.8	3	5.2	23	3.2	13
8	CZH059	111	12	7	7.0	10	6.5	14	1.9	17	6.6	17	3.4	6	5.5	3	14.0	6	4.8	11	5.6	19	5.2	22	4.3	3
4	CZH056	110	12	7	7.0	9	7.6	3	2.2	7	7.7	2	3.5	4	4.0	20	14.9	3	4.7	13	5.1	25	6.1	9	3.7	8
29	PAN 57	114	12	8	6.3	16	6.0	19	1.7	27	6.5	20	2.3	18	5.2	4	12.0	17	5.1	11	7.8	2	4.8	30	4.8	2
27	PHB30V53	106	13	8	6.4	12	7.6	4	2.2	6	6.9	12	2.3	17	5.0	7	12.1	16	5.1	11	7.5	5	7.7	3	2.6	23
6	CZH054	108	14	8	6.8	11	6.9	10	1.9	21	7.5	5	3.0	8	5.0	8	14.4	4	4.5	14	5.7	18	4.9	29	4.2	4
2	CZH04006	106	14	7	6.6	12	6.7	12	2.0	16	7.5	4	2.6	14	4.3	16	13.5	8	4.3	17	5.9	15	5.9	12	3.6	9
18	WH502	98	17	8	6.3	16	5.6	22	2.1	9	6.7	16	1.7	28	4.7	13	13.5	9	4.1	20	5.1	27	5.3	21	1.9	31
1	CZH0025	99	18	8	6.3	16	7.0	8	1.8	23	6.9	13	2.1	22	4.9	11	11.5	21	4.4	17	5.0	28	5.3	20	4.0	5
30	PAN 77	97	19	8	5.5	23	6.3	15	1.8	25	5.8	26	1.8	27	4.4	15	11.4	22	4.1	18	6.0	14	5.2	24	2.8	15
32	Local/Check	94	19	9	5.9	19	4.9	30	2.2	5	4.8	32	2.1	23	3.8	26	13.6	7	4.5	16	6.4	9	5.0	28	2.4	26
24	PHB30R73	91	20	9	5.0	23	4.2	31	2.0	12	6.5	21	2.7	13	4.1	18	9.4	30	4.1	21	5.2	23	5.7	17	2.1	29
23	PHB30G97	93	20	7	5.7	20	5.4	24	1.9	18	6.5	19	3.6	3	3.8	27	11.1	25	3.9	22	6.2	11	4.6	31	2.1	28
10	CZH04022	90	21	8	5.0	27	6.0	20	1.5	32	5.2	29	1.6	29	3.0	31	8.7	32	4.3	15	6.2	10	7.2	4	2.7	21
31	PAN 6M-55	93	21	8	5.3	25	5.2	29	1.9	20	6.0	23	2.1	21	4.3	17	10.9	26	3.9	21	4.2	30	5.0	26	2.8	17
16	CZH0519	88	22	7	5.6	23	6.2	18	1.7	29	5.5	28	2.2	19	3.8	25	11.1	24	4.2	16	5.7	17	6.1	8	3.2	11
22	PHB3253	85	23	9	4.8	27	4.0	32	2.0	15	5.0	30	1.4	30	3.7	28	9.9	28	4.1	21	4.2	29	5.9	13	2.0	30
Maturity group average		103	15	8	6.2	16	6.1	18	1.9	17	6.6	16	2.6	15	4.5	15	12.4	16	4.5	15	6.1	15	5.8	17	3.2	15
Entries with anthesis dates greater than 70 days																										
21	SC719	126	7	8	8.2	5	9.3	1	2.6	1	8.9	1	2.9	9	3.9	23	15.4	2	5.1	10	3.7	32	8.5	1	3.5	10
20	SC637	109	12	10	6.9	9	5.8	21	2.2	8	6.8	14	3.8	2	6.0	1	12.5	14	4.8	15	8.9	1	4.1	32	2.5	24
28	PAN 53	99	15	8	6.9	9	7.3	6	2.0	11	7.2	10	3.3	7	5.1	6	12.7	13	4.6	17	5.6	21	5.7	16	3.8	7
25	PHB30H83	100	16	11	5.4	18	5.3	26	2.4	2	7.3	8	2.5	15	3.9	22	8.8	31	4.1	22	5.2	24	5.1	25	2.2	27
17	WH505	98	17	7	6.4	14	7.4	5	2.2	4	6.6	18	2.0	26	5.0	9	13.4	10	4.6	16	5.9	16	6.7	7	2.8	16
11	CZH0513	94	19	7	6.1	18	6.9	9	1.8	22	6.2	22	2.2	20	3.9	24	11.7	20	4.3	19	6.8	7	5.4	19	2.7	20
12	CZH0514	93	20	8	6.1	19	7.6	2	1.8	24	5.9	25	2.0	25	4.1	19	11.7	18	3.9	22	6.1	12	5.7	18	2.8	18
14	CZH0517	93	20	7	6.0	21	6.8	11	1.6	31	5.6	27	2.1	24	4.5	14	12.4	15	4.4	16	6.1	13	6.1	10	2.8	19
26	PHB30G19	85	23	6	5.6	21	5.5	23	2.0	13	6.8	15	2.4	16	3.3	29	11.1	23	3.6	25	3.9	31	6.0	11	1.5	32
15	CZH0518	73	27	5	5.0	28	5.4	25	1.7	28	5.9	24	1.3	32	2.5	32	9.9	27	3.7	25	5.1	26	5.7	15	2.4	25
13	CZH0515	71	27	6	4.8	30	5.3	28	1.6	30	5.0	31	1.3	31	3.1	30	9.5	29	3.7	24	5.5	22	5.8	14	3.1	14
Maturity group average		95	18	8	6.1	17	6.6	14	2.0	16	6.6	18	2.3	19	4.1	19	11.7	18	4.3	19	5.7	19	5.9	15	2.7	19
Mean		100	17	8	6.19	17	6.27	17	1.95	17	6.57	17	2.50	17	4.35	17	12.14	17	4.44	17	5.93	17	5.82	17	3.04	17
LSD (0.05)		13	5	1	0.47	7	1.36	9	0.22	9	1.21	9	1.08	9	1.34	9	1.91	9	0.62	5	2.46	9	0.76	9	1.55	9
Min		71	7	5	4.76	5	4.05	1	1.51	1	4.80	1	1.27	1	2.48	1	8.69	1	3.58	1	4.12	1	3.67	1	1.50	1
Max		126	27	11	8.23	30	9.30	32	2.58	32	8.88	32	3.82	32	6.05	32	15.56	32	5.13	25	8.90	32	8.51	32	5.28	32
Significant Sites		30	30	30	8	8	1	1	1	1	1	1	1	1	1	1	1	1	6	6	6	1	1	1	1	1



# 7. Inbred and Single Parent Trials

IPT06

IPT06 (Inbred Parent Trial 2006): Results of evaluation of early, intermediate and late maturing CIMMYT inbred lines across three locations (ART Farm, Rattray Arnold Research Station and Kadoma) in Zimbabwe, 2005/2006. Table 6A

Inbred Line	GrainYield t/ha	RelGY %	Sikling Date d	Anth Date d	ASI d	Plant Height cm	Ear Height cm	Ear Position 0-1	Ears per Plant		Lodging		Ear rot %	
									Plant	Root	Root	Stalk		
CML144	3.11	112	77	79	-2.2	177	86	0.49	0.99	11	6	11	6	2.5
CML159	2.11	76	80	81	-0.5	165	78	0.48	0.83	23	1	23	1	5.3
CML176	2.64	95	80	79	1.0	174	80	0.46	0.92	8	3	8	3	3.3
CML182	2.49	90	76	74	1.8	149	73	0.50	1.38	5	2	5	2	1.6
CML197	2.54	92	84	83	1.3	203	119	0.59	0.91	4	4	4	4	0.6
CML202	3.23	117	79	79	0.0	167	82	0.49	1.12	3	12	3	12	1.8
CML395	4.37	158	80	79	1.2	188	94	0.50	0.86	6	10	6	10	0.0
CML395	4.78	173	81	80	1.7	182	91	0.50	1.02	7	13	7	13	0.7
CML440	1.97	71	73	71	1.8	132	50	0.39	1.06	4	1	4	1	1.1
CML442	3.60	130	75	73	1.7	170	78	0.46	1.02	24	2	24	2	4.1
CML443	2.69	97	77	76	0.8	155	88	0.57	1.13	5	4	5	4	2.5
CML444	3.65	132	79	82	-2.3	180	100	0.56	0.96	3	1	3	1	1.9
CML445	3.31	120	74	74	0.8	158	66	0.42	0.93	7	3	7	3	2.6
CML488	2.68	97	73	73	-0.3	152	71	0.48	1.22	6	7	6	7	3.2
CML489	3.56	129	80	80	0.5	156	70	0.46	1.17	0	1	0	1	1.8
CZL00003	3.82	138	75	73	2.0	173	78	0.46	1.07	7	2	7	2	3.6
CZL01005	3.20	116	75	74	1.0	163	83	0.52	0.92	9	1	9	1	2.1
CZL01006	1.52	55	77	77	-0.2	134	69	0.47	1.34	4	7	4	7	3.8
CZL02003	2.05	74	71	70	1.0	128	70	0.51	1.14	10	1	10	1	11.0
CZL02007	2.04	74	71	68	2.7	167	70	0.43	0.96	18	3	18	3	2.1
CZL03002	1.33	48	73	71	2.0	139	53	0.38	1.17	15	6	15	6	1.7
CZL03004	2.67	96	71	70	0.8	163	70	0.48	1.02	7	1	7	1	2.8
CZL03006	1.39	50	79	80	0.0	160	75	0.48	0.96	13	12	13	12	5.7
CZL03014	3.94	142	71	71	0.7	166	73	0.46	1.04	4	1	4	1	4.6
CZL03016	2.38	86	76	74	2.0	157	80	0.51	0.98	15	3	15	3	5.4
CZL03017	1.81	65	82	81	1.3	160	65	0.41	1.02	3	2	3	2	3.5
CZL03018	2.73	99	79	79	0.8	173	78	0.46	1.08	3	1	3	1	8.3
CZL04001	2.04	74	70	69	0.2	142	67	0.45	0.89	9	6	9	6	2.2
CZL04002	1.95	70	75	73	2.0	137	61	0.45	0.85	5	3	5	3	2.6
CZL04003	2.63	95	69	68	0.7	142	63	0.45	0.97	7	2	7	2	6.2
CZL04006	2.74	99	76	75	1.5	161	73	0.46	1.19	11	5	11	5	3.9
CZL04007	2.46	89	71	70	0.3	167	71	0.43	0.89	5	4	5	4	6.0
CZL04009	2.90	105	71	69	2.2	159	76	0.48	1.05	1	1	1	1	4.2
CZL04011	3.69	133	78	76	1.8	204	107	0.53	0.96	14	3	14	3	3.3
CZL04016	2.82	102	79	78	0.8	182	87	0.48	0.90	3	14	3	14	5.5
CZL04021	2.84	102	79	79	-0.3	158	84	0.54	0.92	7	14	7	14	6.5
Mean	2.77	100	75.9	75.3	0.85	162.2	77.2	0.48	1.01	8.0	4.3	8.0	4.3	3.5
LSD	0.73	-	1.4	1.3	1.3	18	10.8	0.05	0.28	9	7	9	7	5.2
Min	1.33	48	68.8	68.0	-2.3	128.3	50.2	0.38	0.72	0.0	0.5	0.0	0.5	0.0
Max	4.78	173	84.2	83.0	2.7	204.2	118.5	0.59	1.38	23.7	13.7	23.7	13.7	11.0

IPT06 (Inbred Parent Trial 2006): Results of evaluation of early, intermediate and late maturing CIMMYT inbred lines at ART Farm, Harare, Zimbabwe, 2005/06.

Inbred Line	Grain yield t/ha	Silking date d	Anthesis date d	ASI d	Plant height cm	Ear height cm	Ear position 0-1	Ears per plant	Lodging		Ear rot %	E. turc. 1-5	P.sorgho 1-5
									Root %	Stalk %			
CML144	2.81	83	86	-3.0	175	92	0.53	0.71	6	15	3	2.0	3.0
CML159	3.05	85	85	0.5	170	78	0.47	0.82	5	3	2	3.0	2.0
CML176	2.82	83	82	1.0	177	85	0.48	0.89	5	6	1	2.0	3.0
CML182	3.28	81	78	3.0	167	77	0.47	1.17	7	2	1	2.5	2.0
CML197	3.57	85	88	-3.0	216	128	0.60	0.92	0	10	0	4.0	1.0
CML202	4.69	84	85	-1.0	170	93	0.55	1.10	2	15	0	2.0	2.0
CML395	4.99	89	86	3.5	184	88	0.48	0.82	0	22	0	2.0	2.0
CML395	6.22	90	86	4.5	198	90	0.46	1.13	0	37	0	2.0	2.5
CML440	2.31	77	76	1.0	131	53	0.41	0.85	4	0	1	3.5	2.0
CML442	3.51	81	78	3.0	173	70	0.41	0.88	6	4	1	3.0	1.0
CML443	2.78	83	82	1.0	155	78	0.51	1.03	6	12	0	3.0	1.0
CML444	4.15	86	89	-3.0	182	100	0.56	0.90	0	0	2	3.0	2.5
CML445	4.12	80	77	2.5	162	65	0.41	0.89	6	3	4	2.5	1.0
CML488	2.40	80	78	1.5	133	69	0.53	1.37	3	14	0	2.0	1.5
CML489	5.60	85	85	0.0	167	81	0.49	1.32	0	2	0	2.0	2.0
CZL00003	4.62	80	78	2.0	184	87	0.48	1.01	13	3	1	2.5	2.0
CZL01005	3.92	80	77	3.0	173	92	0.54	0.95	25	3	2	2.0	1.0
CZL01006	1.37	83	83	-0.5	158	95	0.46	0.40	2	19	1	3.0	2.5
CZL02003	1.92	76	75	1.0	135	72	0.53	0.96	4	0	2	4.5	1.0
CZL02007	2.20	76	73	3.0	161	68	0.43	0.86	9	3	0	2.5	2.0
CZL03002	1.35	80	77	3.0	140	48	0.35	0.98	5	18	0	2.0	1.5
CZL03004	2.94	78	76	2.0	169	89	0.53	0.69	14	0	0	2.5	1.0
CZL03006	1.62	85	86	-0.5	170	80	0.48	0.73	7	14	1	3.0	2.5
CZL03014	5.77	75	75	0.0	205	73	0.39	1.05	0	0	0	2.0	1.5
CZL03016	3.25	80	76	4.5	158	72	0.46	0.89	4	0	3	3.0	2.0
CZL03017	1.59	86	86	0.5	160	70	0.45	0.84	7	0	1	1.0	3.0
CZL03018	2.84	85	85	-0.5	176	83	0.47	1.27	0	0	14	1.0	3.5
CZL04001	2.35	76	74	2.0	170	72	0.44	0.69	0	9	0	3.0	2.0
CZL04002	2.75	80	77	3.5	137	59	0.44	0.81	3	3	0	2.0	1.0
CZL04003	2.39	75	73	2.0	158	68	0.44	0.72	4	2	4	2.5	1.0
CZL04006	3.44	81	78	3.0	163	76	0.47	1.07	4	9	2	2.0	1.0
CZL04007	3.15	78	76	1.5	159	67	0.43	0.82	9	8	2	3.0	2.0
CZL04009	3.30	78	74	4.0	173	84	0.49	0.94	0	0	6	3.0	2.0
CZL04011	3.44	83	82	1.5	213	121	0.58	0.69	9	3	2	3.0	2.5
CZL04016	3.44	84	83	1.5	182	84	0.47	0.83	0	34	2	3.0	1.0
CZL04021	1.97	85	85	-0.5	169	87	0.52	0.57	2	25	2	3.0	2.0
Mean	3.219	81.4	80.1	1.32	168.4	80.1	0.475	0.902	4.4	8.1	1.7	2.56	1.85
LSD	1.68	3	3	2.1	45	24	0.10	0.61	14	20	6	0.8	0.7
Min	1.35	75.0	73.0	-3.0	131.0	47.5	0.4	0.4	0.0	0.0	0.0	1.0	1.0
Max	6.22	90.0	89.0	4.5	215.5	128.0	0.6	1.4	25.0	36.5	14.0	4.5	3.5

Table 6B

IPT06 (Inbred Parent Trial 2006): Results of evaluation of early, intermediate and late maturing CIMMYT inbred lines at ART Farm, Harare, Zimbabwe, 2005/06.

Inbred Line	Grain yield t/ha	Silking date d	Anthesis date d	ASI d	Plant height cm	Ear height cm	Ear position 0-1	Ears per plant	Lodging		Ear rot %	E. turc. 1-5	P.sorgho 1-5
									Root %	Stalk %			
CML144	2.81	83	86	-3.0	175	92	0.53	0.71	6	15	3	2.0	3.0
CML159	3.05	85	85	0.5	170	78	0.47	0.82	5	3	2	3.0	2.0
CML176	2.82	83	82	1.0	177	85	0.48	0.89	5	6	1	2.0	3.0
CML182	3.28	81	78	3.0	167	77	0.47	1.17	7	2	1	2.5	2.0
CML197	3.57	85	88	-3.0	216	128	0.60	0.92	0	10	0	4.0	1.0
CML202	4.69	84	85	-1.0	170	93	0.55	1.10	2	15	0	2.0	2.0
CML395	4.99	89	86	3.5	184	88	0.48	0.82	0	22	0	2.0	2.0
CML395	6.22	90	86	4.5	198	90	0.46	1.13	0	37	0	2.0	2.5
CML440	2.31	77	76	1.0	131	53	0.41	0.85	4	0	1	3.5	2.0
CML442	3.51	81	78	3.0	173	70	0.41	0.88	6	4	1	3.0	1.0
CML443	2.78	83	82	1.0	155	78	0.51	1.03	6	12	0	3.0	1.0
CML444	4.15	86	89	-3.0	182	100	0.56	0.90	0	0	2	3.0	2.5
CML445	4.12	80	77	2.5	162	65	0.41	0.89	6	3	4	2.5	1.0
CML488	2.40	80	78	1.5	133	69	0.53	1.37	3	14	0	2.0	1.5
CML489	5.60	85	85	0.0	167	81	0.49	1.32	0	2	0	2.0	2.0
CZL00003	4.62	80	78	2.0	184	87	0.48	1.01	13	3	1	2.5	2.0
CZL01005	3.92	80	77	3.0	173	92	0.54	0.95	25	3	2	2.0	1.0
CZL01006	1.37	83	83	-0.5	158	95	0.46	0.40	2	19	1	3.0	2.5
CZL02003	1.92	76	75	1.0	135	72	0.53	0.96	4	0	2	4.5	1.0
CZL02007	2.20	76	73	3.0	161	68	0.43	0.86	9	3	0	2.5	2.0
CZL03002	1.35	80	77	3.0	140	48	0.35	0.98	5	18	0	2.0	1.5
CZL03004	2.94	78	76	2.0	169	89	0.53	0.69	14	0	0	2.5	1.0
CZL03006	1.62	85	86	-0.5	170	80	0.48	0.73	7	14	1	3.0	2.5
CZL03014	5.77	75	75	0.0	205	73	0.39	1.05	0	0	0	2.0	1.5
CZL03016	3.25	80	76	4.5	158	72	0.46	0.89	4	0	3	3.0	2.0
CZL03017	1.59	86	86	0.5	160	70	0.45	0.84	7	0	1	1.0	3.0
CZL03018	2.84	85	85	-0.5	176	83	0.47	1.27	0	0	14	1.0	3.5
CZL04001	2.35	76	74	2.0	170	72	0.44	0.69	0	9	0	3.0	2.0
CZL04002	2.75	80	77	3.5	137	59	0.44	0.81	3	3	0	2.0	1.0
CZL04003	2.39	75	73	2.0	158	68	0.44	0.72	4	2	4	2.5	1.0
CZL04006	3.44	81	78	3.0	163	76	0.47	1.07	4	9	2	2.0	1.0
CZL04007	3.15	78	76	1.5	159	67	0.43	0.82	9	8	2	3.0	2.0
CZL04009	3.30	78	74	4.0	173	84	0.49	0.94	0	0	6	3.0	2.0
CZL04011	3.44	83	82	1.5	213	121	0.58	0.69	9	3	2	3.0	2.5
CZL04016	3.44	84	83	1.5	182	84	0.47	0.83	0	34	2	3.0	1.0
CZL04021	1.97	85	85	-0.5	169	87	0.52	0.57	2	25	2	3.0	2.0
Mean	3.219	81.4	80.1	1.32	168.4	80.1	0.475	0.902	4.4	8.1	1.7	2.56	1.85
LSD	1.68	3	3	2.1	45	24	0.10	0.61	14	20	6	0.8	0.7
Min	1.35	75.0	73.0	-3.0	131.0	47.5	0.4	0.4	0.0	0.0	0.0	1.0	1.0
Max	6.22	90.0	89.0	4.5	215.5	128.0	0.6	1.4	25.0	36.5	14.0	4.5	3.5

Table 6B

**Table 6C**  
**Table 6C**  
 IPT06 (Inbred Parent Trial 2006): Results of evaluation of early, intermediate and late maturing CIMMYT inbred lines at Rattray Arnold Research Station, Zimbabwe, 2005/06.

Inbred Line	Grain yield t/ha	Silking date d	Anthesis date d	ASI d	Plant height cm	Ear height cm	Ear position 0-1	Ears per plant	Lodging		Ear rot mean %	PLS	GLS
									Root %	Stalk %			
CML144	2.09	76	78	-2.5	173	70	0.41	0.90	17	2	2	1.5	1.5
CML159	1.50	80	80	0.0	158	75	0.48	0.73	20	0	8	2.0	3.0
CML176	1.14	81	79	2.0	148	63	0.43	0.84	16	4	6	1.0	1.5
CML182	1.57	76	75	1.5	135	68	0.50	1.10	9	4	2	1.0	1.5
CML197	1.54	86	83	3.0	178	100	0.57	0.75	13	2	1	1.0	1.5
CML202	1.65	80	80	0.0	150	70	0.47	1.32	7	9	4	1.5	1.0
CML395	2.92	79	79	-0.5	185	93	0.50	0.91	16	9	0	1.0	2.5
CML395	3.14	79	79	0.0	165	83	0.50	0.87	22	2	1	1.0	2.0
CML440	1.07	73	70	3.0	135	43	0.32	1.39	10	2	1	2.5	1.0
CML442	2.11	73	72	0.5	155	73	0.47	1.19	62	0	7	1.5	1.0
CML443	1.80	76	74	1.5	150	85	0.57	1.07	10	2	5	2.0	1.0
CML444	2.38	79	83	-3.5	165	93	0.56	0.93	9	2	2	1.5	3.0
CML445	1.12	75	75	0.0	143	63	0.44	0.81	15	3	1	1.5	1.0
CML488	1.71	71	72	-1.0	160	65	0.41	1.16	14	6	6	1.5	2.0
CML489	2.45	81	80	1.0	143	60	0.43	0.80	0	0	4	2.0	1.0
CZL00003	2.27	76	73	3.0	145	68	0.47	1.03	9	3	6	1.5	1.0
CZL01005	1.32	75	75	0.0	140	70	0.50	0.79	2	0	3	2.0	1.0
CZL01006	1.14	75	75	0.0	125	55	0.46	0.74	11	3	7	1.0	1.5
CZL02003	0.90	69	68	1.0	123	53	0.43	1.34	25	3	20	1.0	1.0
CZL02007	1.08	71	69	2.0	173	70	0.41	1.20	45	5	4	1.0	1.5
CZL03002	0.67	72	70	2.5	135	53	0.39	1.24	41	0	3	1.5	1.0
CZL03004	2.18	70	69	0.5	148	65	0.44	1.23	8	2	6	1.0	2.5
CZL03006	1.12	78	78	0.0	145	68	0.47	0.97	21	22	11	1.5	1.0
CZL03014	3.11	71	69	2.0	148	70	0.47	0.97	10	2	9	1.5	1.5
CZL03016	1.25	76	74	2.0	148	73	0.49	0.91	30	6	8	1.0	1.0
CZL03017	1.56	84	82	2.5	148	58	0.39	0.95	9	6	6	2.5	1.0
CZL03018	1.92	79	78	1.0	165	73	0.44	0.95	8	3	3	2.5	1.0
CZL04001	1.18	68	68	0.0	120	50	0.40	1.00	21	9	4	1.0	1.5
CZL04002	1.29	74	73	1.5	140	55	0.40	0.99	13	6	5	1.5	1.5
CZL04003	1.66	68	68	0.0	133	53	0.40	1.00	18	3	8	1.0	2.0
CZL04006	2.01	77	75	1.5	150	63	0.42	0.93	28	5	6	1.5	1.0
CZL04007	1.84	68	68	-0.5	160	65	0.41	1.03	5	3	10	1.0	1.0
CZL04009	2.10	69	68	0.5	145	68	0.47	0.86	3	2	2	1.0	3.5
CZL04011	1.90	79	76	3.0	188	90	0.48	0.86	34	3	4	1.5	1.5
CZL04016	1.27	80	79	0.5	170	83	0.49	0.91	8	7	9	2.0	2.5
CZL04021	1.51	81	81	0.0	143	75	0.53	1.16	20	6	11	1.0	1.0
Mean	1.707	75.4	74.7	0.78	150.8	68.7	0.454	0.993	16.7	3.8	5.4	1.43	1.51
LSD	0.77	2	2	2.0	22	13	0.07	0.48	22	9	9	1.2	1.1
Min	0.67	67.5	68.0	-3.5	120.0	42.5	0.3	0.7	0.0	0.0	0.0	1.0	1.0
Max	3.14	85.5	83.0	3.0	187.5	100.0	0.6	1.4	62.0	22.0	19.9	2.5	3.5

IPT06 (Inbred Parent Trial 2006): Results of evaluation of early, intermediate and late maturing CIMMYT inbred lines at Kadoma Research

Station, Zimbabwe, 2005/06.

Table 6D

Inbred Line	Grain yield t/ha	Silking date d	Anthesis date d	ASI d	Plant height cm	Ear height cm	Ear position 0-1	Ears per plant	Lodging		P. sorghi
									Root %	Stalk %	
CML144	4.43	72	73	-1.0	183	98	0.54	1.37	11	0	1-5
CML159	1.77	76	78	-2.0	168	80	0.49	0.95	45	0	1.0
CML176	3.96	75	75	0.0	198	93	0.48	1.03	5	0	1.5
CML182	2.60	71	70	1.0	145	75	0.52	1.88	0	0	2.0
CML197	2.52	82	78	4.0	215	128	0.60	1.07	0	0	1.0
CML202	3.34	74	73	1.0	180	83	0.46	0.93	0	12	1.5
CML395	5.21	73	72	0.5	195	103	0.53	0.84	3	0	1.0
CML395	4.99	75	75	0.5	183	100	0.55	1.07	0	0	1.0
CML440	2.54	69	68	1.5	130	55	0.43	0.94	0	0	2.0
CML442	5.18	70	69	1.5	183	93	0.51	1.00	3	2	1.5
CML443	3.48	73	73	0.0	160	100	0.63	1.28	0	0	1.0
CML444	4.42	73	73	-0.5	193	108	0.57	1.04	0	0	1.0
CML445	4.69	69	69	0.0	170	70	0.42	1.10	0	3	1.5
CML488	3.94	68	69	-1.5	163	80	0.50	1.14	0	0	1.0
CML489	2.64	75	75	0.5	158	70	0.45	1.40	0	0	1.5
CZL00003	4.57	69	68	1.0	190	80	0.43	1.18	0	0	1.0
CZL01005	4.38	69	69	0.0	175	88	0.51	1.02	0	0	1.0
CZL01006	2.04	72	72	0.0	120	58	0.48	1.03	0	0	2.5
CZL02003	3.33	67	66	1.0	128	70	0.56	1.12	0	0	1.5
CZL02007	2.84	66	63	3.0	168	73	0.44	0.84	0	2	1.0
CZL03002	1.96	68	67	0.5	143	58	0.40	1.31	0	0	1.0
CZL03004	2.89	66	66	0.0	173	78	0.46	1.15	0	0	1.5
CZL03006	1.44	75	75	0.5	165	78	0.48	1.19	11	0	1.0
CZL03014	2.94	68	68	0.0	145	75	0.52	1.12	4	0	1.5
CZL03016	2.65	72	72	-0.5	165	95	0.58	1.13	13	2	1.5
CZL03017	2.28	77	76	1.0	173	68	0.40	1.28	0	0	2.5
CZL03018	3.44	75	73	2.0	178	80	0.46	1.04	2	0	2.5
CZL04001	2.60	65	66	-1.5	138	80	0.59	1.00	5	0	1.5
CZL04002	1.81	70	69	1.0	135	70	0.52	0.75	0	0	1.5
CZL04003	3.84	64	64	0.0	135	68	0.51	1.20	0	0	1.5
CZL04006	2.79	72	72	0.0	170	80	0.48	1.58	0	0	1.5
CZL04007	2.39	67	67	0.0	183	80	0.44	0.81	0	0	2.0
CZL04009	3.29	66	64	2.0	160	78	0.49	1.35	0	0	1.5
CZL04011	5.74	71	71	1.0	213	110	0.53	1.32	0	3	1.5
CZL04016	3.73	73	73	0.5	195	95	0.49	0.97	0	0	1.0
CZL04021	5.03	71	72	-0.5	163	90	0.56	1.05	0	11	1.0
Mean	3.380	70.8	70.4	0.46	167.5	82.8	0.498	1.122	2.7	0.9	1.42
LSD	1.29	2	2	2.6	25.3	18.8	0.08	0.39	9	5	1.0
Min	1.44	64.0	63.0	-2.0	120.0	55.0	0.4	0.7	0.0	0.0	1.0
Max	5.74	82.0	78.0	4.0	215.0	127.5	0.6	1.9	44.5	12.0	2.5



SXPT06 (Single Cross Parent Trial 2006): Results of evaluation of early, intermediate and late maturing CIMMYT single cross, Pannar, Seedco and Pioneer hybrids across three locations (ART Farm, Rattray Arnold Research Station and Kadoma) in Zimbabwe, 2005/2006. Table 7A

Hybrid Pedigree	Grain yield t/ha	Relative GY %	Days to Silking d	Days to Anthesis d	ASI d	Plant height cm	Ear height cm	Ear position 0-1	Ears per Plant	Lodging	
										Root %	Stalk %
CML144/CML159	6.71	86	74	74	0.0	256	126	0.49	0.87	4	29
CML144/CZL03016	6.78	87	72	72	0.0	247	131	0.54	0.95	2	25
CML182/CML181dent	5.49	70	70	69	1.5	230	119	0.52	1.08	13	5
CML182/CZL01005	6.60	84	71	69	1.7	219	116	0.53	1.06	4	3
CML197/CML444	7.46	95	72	71	0.5	242	135	0.56	1.01	5	7
CML202/CML395	7.29	93	73	73	0.5	255	142	0.55	0.94	0	34
CML312/CML395	9.97	127	73	73	0.7	261	135	0.52	0.99	1	3
CML312/CML442	8.19	105	73	72	1.2	251	130	0.52	0.97	2	0
CML312/CML444	10.55	135	73	72	1.3	285	163	0.57	1.05	2	3
CML395/CML444	8.06	103	75	75	-0.3	283	167	0.59	0.90	2	33
CML441/CML442	6.96	89	73	72	1.3	252	135	0.54	1.00	4	5
CML442/CML395	8.36	107	76	75	1.3	256	138	0.54	0.95	5	8
CML443/CML444	9.50	121	72	72	0.7	261	152	0.58	1.04	4	11
CML443/CML445	7.18	92	71	70	0.7	224	115	0.51	0.95	4	1
CML444/CML197	8.46	108	76	76	0.3	293	183	0.63	1.04	2	1
CML444/CML445	8.25	105	72	72	0.5	263	146	0.56	1.05	2	18
CML444/CZL00003	8.62	110	74	73	1.0	299	176	0.59	1.04	0	5
CML488/CML395	7.41	95	71	71	0.3	244	143	0.59	1.16	2	11
CML489/CML444	7.93	101	73	73	0.2	255	140	0.55	0.99	2	4
CZL00001/CML312	6.86	88	70	69	0.8	251	122	0.49	0.96	1	2
CZL01005/CML181dent	6.59	84	72	71	1.0	238	125	0.53	0.98	3	2
CZL02003/CZL03005	7.70	98	67	65	1.3	223	121	0.54	0.99	5	9
CZL02014/CML197	9.24	118	77	76	1.0	273	173	0.64	0.99	3	1
CZL04005/CML445	7.57	97	73	72	0.5	252	126	0.50	1.00	1	9
CZL04008/CZL04009	4.32	55	63	62	0.5	170	77	0.45	0.89	6	2
GQL5/CML176	6.03	77	71	70	0.8	255	132	0.52	0.82	8	22
PAN77	8.31	106	71	71	0.7	245	136	0.56	1.02	5	22
PHB30R73	8.98	115	74	73	0.5	258	147	0.57	0.96	6	10
SC527Q	8.86	113	72	71	1.2	247	123	0.50	0.85	1	31
SC633	9.21	118	70	69	0.8	256	132	0.52	1.01	6	2
SC709	9.21	118	72	72	0.3	283	156	0.55	0.93	4	5
<b>Mean</b>	<b>7.83</b>	<b>100</b>	<b>72</b>	<b>72</b>	<b>0.7</b>	<b>252</b>	<b>137</b>	<b>0.54</b>	<b>0.98</b>	<b>3</b>	<b>10</b>
<b>LSD</b>	<b>1.46</b>		<b>2</b>	<b>2</b>	<b>0.7</b>	<b>12</b>	<b>12</b>	<b>0.04</b>	<b>0.15</b>	<b>6</b>	<b>9</b>
<b>Min</b>	<b>4.32</b>	<b>55</b>	<b>63</b>	<b>62</b>	<b>-0.3</b>	<b>170</b>	<b>77</b>	<b>0.45</b>	<b>0.82</b>	<b>0</b>	<b>0</b>
<b>Max</b>	<b>10.55</b>	<b>135</b>	<b>77</b>	<b>76</b>	<b>1.7</b>	<b>299</b>	<b>183</b>	<b>0.64</b>	<b>1.16</b>	<b>13</b>	<b>34</b>

SXPT06 (Single Cross Parent Trial 2006): Results of evaluation of early, intermediate and late maturing CIMMYT single cross, Pannar, Seedco and Pioneer hybrids at ART Farm, Harare, Zimbabwe, 2005/06. Table 7B

Hybrid Pedigree	Grain yield t/ha	Silking date d	Anthesis date d	ASI d	Plant height cm	Ear height cm	Ear position 0-1	Ears per plant	Lodging		Ear rot mean %	E.turc. %	PLS	GLS
									Root %	Stalk %				
CML144/CML159	8.97	79	80	-1.5	273	149	0.55	0.87	0	86	5	2.0	3.0	1.5
CML144/CZL03016	8.97	76	78	-1.5	251	144	0.58	0.79	0	74	5	2.0	2.5	1.5
CML182/CML181dent	6.63	75	74	1.0	238	131	0.55	0.92	28	8	6	2.0	2.0	2.0
CML182/CZL01005	8.94	74	73	1.5	235	138	0.59	0.99	6	3	7	2.0	1.0	2.0
CML197/CML444	8.09	76	76	-0.5	248	144	0.58	0.92	2	15	0	2.5	1.5	1.0
CML202/CML395	9.84	78	78	-0.5	270	165	0.61	0.82	0	92	0	2.5	2.0	1.5
CML312/CML395	12.68	77	78	-1.0	274	149	0.55	1.02	0	3	0	2.0	1.0	1.5
CML312/CML442	10.96	76	76	-0.5	262	148	0.57	0.93	0	0	0	3.0	1.0	1.5
CML312/CML444	13.86	78	77	0.5	311	179	0.57	0.96	2	4	3	2.5	1.5	1.0
CML395/CML444	11.31	79	82	-3.0	303	184	0.61	0.88	0	90	1	2.0	3.0	1.0
CML441/CML442	8.53	77	77	0.5	268	150	0.56	0.96	8	10	0	5.0	1.0	1.0
CML442/CML395	9.65	81	81	0.5	276	148	0.54	0.94	0	19	1	3.5	1.0	1.5
CML443/CML444	12.16	78	79	-1.0	288	175	0.61	0.93	3	29	5	3.0	1.0	1.0
CML443/CML445	9.20	76	76	0.0	234	129	0.55	0.95	2	3	1	2.0	1.0	1.0
CML444/CML197	11.36	82	83	-0.5	323	208	0.65	1.10	0	2	1	3.0	1.5	1.0
CML444/CML445	10.04	77	79	-1.5	282	167	0.59	1.03	0	52	7	2.0	1.0	1.0
CML444/CZL00003	12.52	79	79	-0.5	311	199	0.64	1.02	0	13	4	2.5	1.5	1.0
CML488/CML395	8.63	76	77	-1.5	261	156	0.60	0.93	0	30	0	2.5	2.0	1.0
CML489/CML444	10.05	78	81	-2.5	269	161	0.60	0.86	0	8	2	2.0	2.0	1.0
CZL00001/CML312	7.60	73	74	-0.5	264	134	0.51	1.15	0	3	19	2.0	1.0	1.0
CZL01005/CML181dent	8.96	76	77	-0.5	253	143	0.57	0.94	4	3	11	2.0	1.5	2.0
CZL02003/CZL03005	9.83	72	71	0.5	245	139	0.57	0.90	10	25	9	3.5	1.0	1.0
CZL02014/CML197	12.23	84	83	1.0	298	185	0.63	0.98	0	2	1	3.0	1.0	1.0
CZL04005/CML445	9.93	76	77	-1.0	276	149	0.54	0.94	0	20	2	2.5	1.0	1.0
CZL04008/CZL04009	5.44	66	66	0.0	174	83	0.48	0.80	7	4	2	2.5	2.0	1.5
GQL5/CML176	6.46	75	75	-0.5	259	132	0.51	0.60	13	61	8	4.5	3.5	1.5
PAN77	9.96	75	76	-1.0	257	140	0.55	0.96	10	49	7	3.0	2.0	1.0
PHB30R73	12.51	78	78	-0.5	266	159	0.60	0.84	6	25	1	2.0	1.5	1.5
SC527Q	10.84	76	77	-1.0	272	140	0.52	0.79	0	89	6	2.0	3.5	1.5
SC633	10.14	74	75	-1.0	276	143	0.52	0.87	16	2	4	3.5	2.5	1.0
SC709	11.22	76	78	-1.5	292	172	0.59	0.90	0	10	6	3.5	3.5	1.5
Mean	9.918	76.3	76.9	-0.58	267.8	152.7	0.568	0.917	3.7	26.7	3.9	2.65	1.76	1.27
LSD	3.23	2.5	2.4	1.7	17.9	19.3	0.07	0.19	13.6	25.5	5.8	1.1	1.0	1.1
Min	5.44	66.0	66.0	-3.0	173.5	82.5	0.5	0.6	0.0	0.0	0.0	2.0	1.0	1.0
Max	13.86	83.5	83.0	1.5	322.5	207.5	0.7	1.2	27.5	91.5	19.2	5.0	3.5	2.0

SXPT06 (Single Cross Parent Trial 2006): Results of evaluation of early, intermediate and late maturing CIMMYT single cross, Pannar, Seedco and Pioneer hybrids at Rattray Arnold Research Station, Zimbabwe, 2005/06. Table 7C

Hybrid Pedigree	Grain yield t/ha	Silking date d	Anthesis date d	ASI d	Plant height cm	Ear height cm	Ear position 0-1	Ears per plant	Lodging		Ear rot mean %	GLS 1-5
									Root %	Stalk %		
CML144/CML159	4.24	73	72	1.0	228	108	0.48	0.77	10	2	0.0	4.0
CML144/CZL03016	4.03	74	72	1.5	243	130	0.54	0.77	5	2	0.0	3.5
CML182/CML181dent	3.81	69	67	2.0	210	98	0.47	1.09	10	7	0.0	3.0
CML182/CZL01005	4.09	71	69	2.0	200	103	0.52	1.03	8	7	0.0	2.5
CML197/CML444	5.68	71	69	2.0	245	135	0.55	1.02	11	6	0.0	2.5
CML202/CML395	5.61	73	71	1.5	250	133	0.53	0.92	0	8	0.0	2.0
CML312/CML395	6.69	74	72	2.0	253	115	0.46	0.92	2	0	0.0	3.0
CML312/CML442	5.78	72	70	2.0	240	118	0.49	1.02	5	0	0.0	3.0
CML312/CML444	6.73	73	71	2.0	265	150	0.57	1.04	4	4	1.8	3.5
CML395/CML444	6.09	75	73	2.0	268	158	0.59	0.95	5	6	0.0	3.0
CML441/CML442	4.86	74	72	2.0	245	128	0.52	0.96	5	5	1.4	2.0
CML442/CML395	5.85	76	74	2.5	235	128	0.54	0.96	13	3	0.0	2.0
CML443/CML444	6.02	71	69	2.0	238	130	0.55	0.96	9	3	0.0	2.0
CML443/CML445	4.08	70	69	1.5	210	108	0.51	0.88	7	2	0.8	1.5
CML444/CML197	5.53	76	75	1.5	273	163	0.60	0.81	5	3	0.0	3.0
CML444/CML445	6.11	71	69	2.0	253	138	0.55	1.07	5	4	0.0	2.0
CML444/CZL00003	6.50	74	72	2.0	293	163	0.56	0.94	0	3	0.0	2.0
CML488/CML395	5.58	70	68	2.0	233	138	0.60	1.05	5	2	0.0	2.0
CML489/CML444	6.54	73	71	2.0	243	123	0.51	0.86	5	3	1.7	2.5
CZL00001/CML312	4.19	70	68	2.0	243	118	0.49	0.75	4	4	3.7	1.5
CZL01005/CML181dent	4.20	72	70	2.0	225	110	0.49	1.00	5	0	1.5	2.5
CZL02003/CZL03005	4.90	65	63	2.0	205	108	0.53	1.05	7	3	4.9	1.5
CZL02014/CML197	6.69	76	74	2.0	243	160	0.67	0.97	9	2	0.0	2.5
CZL04005/CML445	4.36	72	70	2.0	233	108	0.46	1.02	2	3	0.0	2.0
CZL04008/CZL04009	2.71	64	62	1.5	165	68	0.41	0.88	9	3	0.0	2.0
GQL5/CML176	3.69	72	70	2.0	243	120	0.50	0.79	10	2	3.7	2.0
PAN77	4.81	71	69	2.0	245	143	0.59	0.96	3	13	0.0	2.5
PHB30R73	4.20	76	74	1.5	230	125	0.55	0.96	13	5	3.0	3.0
SC527Q	4.79	73	70	2.5	235	108	0.46	0.75	2	3	1.3	3.0
SC633	6.11	70	68	2.0	240	120	0.50	1.20	0	0	0.0	3.0
SC709	4.96	74	72	2.0	270	140	0.52	0.82	11	6	0.0	2.0
<b>Mean</b>	<b>5.142</b>	<b>71.8</b>	<b>69.9</b>	<b>1.90</b>	<b>238.5</b>	<b>125.3</b>	<b>0.523</b>	<b>0.938</b>	<b>5.9</b>	<b>3.4</b>	<b>0.76</b>	<b>2.47</b>
<b>LSD</b>	<b>1.50</b>	<b>3</b>	<b>3</b>	<b>0.9</b>	<b>27</b>	<b>24</b>	<b>0.08</b>	<b>0.29</b>	<b>12</b>	<b>9</b>	<b>2.9</b>	<b>2.0</b>
<b>Min</b>	<b>2.71</b>	<b>63.5</b>	<b>62.0</b>	<b>1.0</b>	<b>165.0</b>	<b>67.5</b>	<b>0.4</b>	<b>0.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.5</b>
<b>Max</b>	<b>6.73</b>	<b>76.0</b>	<b>75.0</b>	<b>2.5</b>	<b>292.5</b>	<b>162.5</b>	<b>0.7</b>	<b>1.2</b>	<b>13.0</b>	<b>12.5</b>	<b>4.9</b>	<b>4.0</b>

**SXPT06 (Single Cross Parent Trial 2006): Results of evaluation of early, intermediate and late maturing CIMMYT single cross, Pannar, Seedco and Pioneer hybrids at Kadoma Research Station, Zimbabwe, 2005/06. Table 7D**

Hybrid Pedigree	Grain yield t/ha	Silking date d	Anthesis date d	ASI d	Plant height cm	Ear height cm	Ear position 0-1	Ears per plant	Lodging	
									Root %	Stalk %
CML144/CML159	6.90	71	70	0.5	268	120	0.45	0.98	2	0
CML144/CZL03016	7.36	67	67	0.0	248	120	0.49	1.28	0	0
CML182/CML181dent	6.03	67	65	1.5	243	128	0.53	1.25	0	0
CML182/CZL01005	6.75	68	66	1.5	223	108	0.48	1.17	0	0
CML197/CML444	8.60	69	69	0.0	233	128	0.55	1.09	3	2
CML202/CML395	6.43	69	69	0.5	245	128	0.52	1.07	0	2
CML312/CML395	10.54	69	68	1.0	258	140	0.55	1.05	2	6
CML312/CML442	7.83	71	69	2.0	250	125	0.50	0.96	0	0
CML312/CML444	11.06	70	68	1.5	280	160	0.57	1.14	0	0
CML395/CML444	6.79	71	71	0.0	278	160	0.58	0.87	0	2
CML441/CML442	7.50	69	67	1.5	243	128	0.53	1.08	0	0
CML442/CML395	9.59	70	69	1.0	258	140	0.55	0.96	2	2
CML443/CML444	10.33	69	68	1.0	258	150	0.59	1.22	0	2
CML443/CML445	8.26	67	66	0.5	228	108	0.48	1.02	3	0
CML444/CML197	8.48	70	70	0.0	285	180	0.63	1.22	0	0
CML444/CML445	8.60	69	68	1.0	255	135	0.53	1.04	0	0
CML444/CZL00003	6.86	69	67	1.5	293	168	0.58	1.17	0	0
CML488/CML395	8.04	68	68	0.5	240	135	0.56	1.50	0	2
CML489/CML444	7.20	68	67	1.0	253	138	0.55	1.26	0	0
CZL00001/CML312	8.78	67	66	1.0	245	115	0.47	0.99	0	0
CZL01005/CML181dent	6.61	68	67	1.5	235	123	0.52	1.00	2	4
CZL02003/CZL03005	8.36	64	62	1.5	220	118	0.53	1.02	0	0
CZL02014/CML197	8.80	71	71	0.0	280	173	0.62	1.02	0	0
CZL04005/CML445	8.43	71	70	0.5	248	123	0.50	1.05	0	5
CZL04008/CZL04009	4.81	59	59	0.0	173	80	0.46	0.99	3	0
GQL5/CML176	7.94	67	66	1.0	263	145	0.56	1.09	2	3
PAN77	10.16	68	67	1.0	233	125	0.54	1.16	2	3
PHB30R73	10.23	69	68	0.5	278	158	0.57	1.08	0	0
SC527Q	10.93	69	67	2.0	233	120	0.52	1.00	0	0
SC633	11.40	66	65	1.5	253	133	0.53	0.96	2	3
SC709	11.44	68	67	0.5	288	155	0.54	1.08	0	0
<b>Mean</b>	<b>8.420</b>	<b>68.0</b>	<b>67.1</b>	<b>0.89</b>	<b>250.9</b>	<b>134.2</b>	<b>0.532</b>	<b>1.086</b>	<b>0.6</b>	<b>1.0</b>
<b>LSD</b>	<b>2.75</b>	<b>2</b>	<b>3</b>	<b>1.3</b>	<b>20</b>	<b>20</b>	<b>0.06</b>	<b>0.30</b>	<b>3</b>	<b>4</b>
<b>Min</b>	<b>4.81</b>	<b>59.0</b>	<b>59.0</b>	<b>0.0</b>	<b>172.5</b>	<b>80.0</b>	<b>0.5</b>	<b>0.9</b>	<b>0.0</b>	<b>0.0</b>
<b>Max</b>	<b>11.44</b>	<b>71.0</b>	<b>71.0</b>	<b>2.0</b>	<b>292.5</b>	<b>180.0</b>	<b>0.6</b>	<b>1.5</b>	<b>3.0</b>	<b>6.0</b>

