

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

**Results of the 2003 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 Programme (UNDP), and the United Nations Environment Programme (UNEP).

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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:

EPOP03: early to intermediate maturing open-pollinated varieties (OPV's)

ILPOP03: intermediate to late maturing open-pollinated varieties (OPV's)

EIHYP03: early to intermediate maturing hybrids

ILHYP03: intermediate to late maturing hybrids

QHYP03: Quality Protein Maize (QPM) 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 4.

Data analysis

In each Table, 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 is presented with two Summary Tables 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.

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.	A	Very good
	AB	Good
	BC	Average
	CD	Poor
	D	Very poor

A description of all measurements can be found in Section 3.

Individual site results

These Tables present grain yields for individual sites, grouped by environment. A description of the sites can be found in Section 4.

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

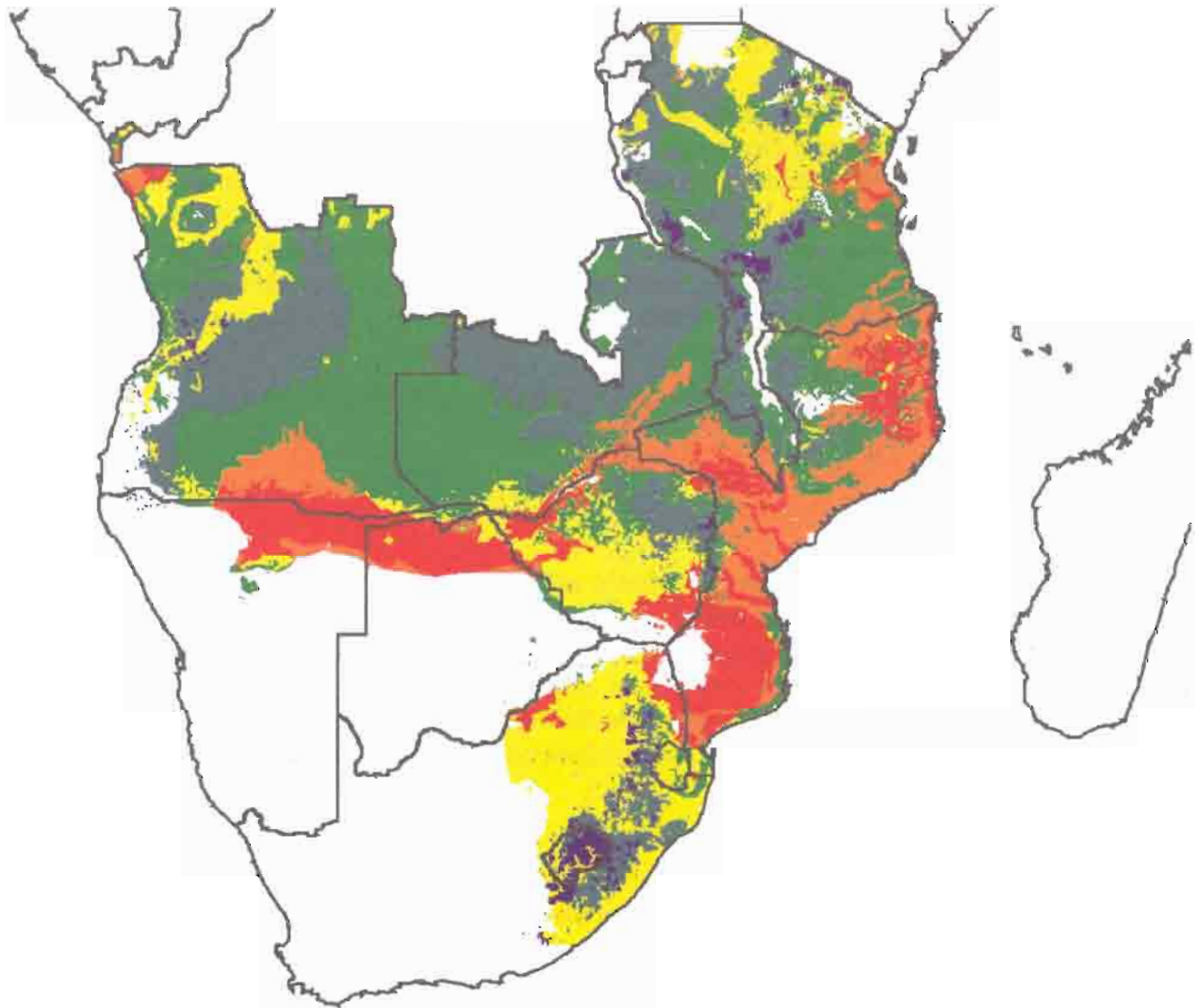


Table 1: Description of SADC Maize Mega-Environments.

Zone	Typical Environment [®]	Average Maximum Temperature	Risk of Drought	Seasonal Precipitation	Area in SADC	
		°C		mm	ha	Percentage
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%

[®] 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%	19%
D	7%	6%	13%	0%	8%	39%	13%	1%	0%	5%	4%	8%
E	15%	3%	71%	0%	0%	26%	63%	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 OPV's and hybrids 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, OPV's) 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, OPV's) in your breeding program and for commercialization.

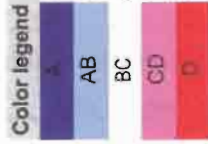
.... by Seed-Distributing Agencies?

- 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 OPV's 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 as well under the stresses present in farmers' fields.

EPPOP03: Results of evaluation of early maturing OPVs from Angola, Botswana, CIMMYT, Malawi and Tanzania across 65 sites in eastern and southern Africa, 2002/03.
 Individual sites results on pages 29-37 (Tables 3C to 3K). Color legend on page 3.

Entry Name	Pedigree	Origin	Comments	Across		E Africa		Mid Alt		Agro-Ecological Zone: Southern Africa		Highlands		Managed Stress		Anth Date
				Ref GY	Rank	W	S	Mild Alt	Hot	Mid Alt	Lowland Tropical	Dry	Humid	Dry	Humid	
	%	Avg	Sidev	u/ha	u/ha	A	B	C	D	E	F	u/ha	u/ha	u/ha	u/ha	d
Entries with anthesis date between 58 - 62 days																
4 ZM305	100	16	8	5.6	3.1	1.8	0.6	2.1	5.4	2.1	0.7	62.3				
20 ZM301 C1 (Botswana)	90	20	6	5.0	3.8	3.0	1.9	0.5	1.9	5.1	1.8	62.2				
26 EEPPOP104	78	24	7	4.7	3.1	2.6	1.8	0.4	1.8	4.1	1.6	59.4				
16 EECOMPOSITE	63	27	5	4.1	2.5	2.3	1.4	0.2	1.0	3.6	1.3	58.9				
Maturity group average	83	22	6	4.7	3.4	2.8	1.7	0.4	1.8	4.5	1.7	60.7				
Entries with anthesis date between 64 - 68 days																
5 Syn01E2	116	8	6	6.3	4.8	4.2	2.5	0.9	2.2	6.2	2.2	66.4				
11 ZM423	115	9	7	6.1	3.8	3.0	2.3	0.9	2.3	6.8	2.3	66.5				
13 01SADVE	112	10	6	4.8	3.6	2.4	0.6	2.2	6.3	2.6	0.8	66.1				
23 LTCOMP01 MALAWI	109	11	6	5.6	4.5	3.1	2.4	0.7	2.2	5.8	2.6	66.1				
10 ZM521-FLINT	104	14	6	6.2	4.3	3.5	2.3	0.6	1.8	6.6	2.2	66.5				
3 VV023	105	15	7	5.4	4.5	3.4	2.2	0.9	1.8	5.8	2.2	67.5				
18 ZM303	101	15	7	5.1	4.2	3.4	2.1	1.0	2.2	5.8	2.0	64.9				
9 ZM421-FLINT	99	16	6	5.3	4.2	3.3	2.1	0.5	2.1	5.4	2.1	66.9				
2 VV022	98	17	7	4.9	4.4	3.3	2.0	0.5	2.0	5.7	2.1	67.3				
30 LOCAL CHECK 2	96	17	9	5.0	4.4	3.6	2.4	0.2	1.9	5.2	1.8	67.1				
6 Syn01E3	96	17	7	5.7	4.1	3.4	2.2	0.4	1.6	5.7	2.2	66.0				
22 KAFULA (Malawi)	97	17	7	5.8	4.0	3.1	2.2	0.5	1.9	5.4	2.0	66.7				
7 ZM421	93	19	9	5.0	3.8	2.8	2.2	0.6	1.7	5.3	2.1	67.6				
29 LOCAL CHECK 1	89	20	10	5.3	4.1	3.8	1.9	0.6	1.6	5.1	1.7	67.4				
25 MATINDIRI C1 MALAWI	89	20	6	4.5	3.9	3.2	2.3	0.7	1.7	5.4	2.0	67.9				
28 MATUBA	91	21	8	4.8	3.5	3.1	1.8	0.7	1.6	4.9	2.1	66.2				
17 PL15QC7-SRC1	89	21	6	4.5	3.8	2.8	1.9	0.7	1.7	5.0	2.0	66.8				
Maturity group average	100	16	7	5.4	4.3	3.4	2.2	0.7	1.9	5.5	2.2	66.5				
Entries with anthesis date > 68 days																
12 ZM523	124	6	6	6.4	4.9	4.2	2.8	0.6	2.3	7.0	2.4	68.4				
15 02SADVE	116	7	5	6.4	4.5	4.0	2.4	0.7	2.1	6.7	2.5	68.8				
14 01SADVI	118	8	6	6.2	5.1	3.8	2.6	0.5	2.0	6.7	2.5	68.2				
24 MACOMP01 MALAWI	110	12	7	6.3	4.8	3.7	2.6	0.6	1.9	6.9	2.4	68.4				
8 ZM521	109	12	7	6.2	4.7	3.6	2.2	0.6	2.0	5.7	2.4	68.3				
27 KEP	106	13	9	6.3	4.8	3.7	2.1	0.4	2.0	7.0	2.2	69.5				
1 VV021	104	15	7	5.5	4.5	3.7	2.3	0.5	1.7	5.9	2.1	68.3				
19 AMEDIN-1	98	17	8	5.3	4.3	3.5	2.5	0.7	1.6	5.0	1.8	68.5				
21 KEP C1 BOTSWANA	86	21	8	5.3	4.3	3.4	2.3	0.4	1.8	5.7	1.8	70.7				
Maturity group average	108	12	7	5.9	4.8	3.8	2.4	0.6	1.9	6.3	2.2	68.8				
Mean	99	16	7	5.4	4.3	3.4	2.2	0.6	1.9	5.6	2.1	66.4				
LSD (0.05)				0.6	0.4	0.4	0.3	0.3	0.3	1.0	0.3	0.2				
Min	83	6	5	3.6	2.5	2.3	1.4	0.2	1.6	3.5	1.3	58.9				
Max	124	27	10	8.9	5.6	4.2	2.8	1.1	2.3	7.0	2.7	70.7				
NumSignificantSites	43	43	43	4	8	8	4	1	6	1	7	3				35



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.

EPO003: Results of evaluation of early maturing OPVs from Angola, Botswana, CIMMYT, Malawi and Tanzania across 65 sites in eastern and southern Africa, 2002/03. Individual sites results on pages 29-37 (Tables 3C to 3K). Color legend on page 3.

Table 3B

Entry Name	Across		Plant Height	Anth Date	Ear Position	Lodging	Husk Cover	Ear Rot	GLS	Paorg	E.tuc	MSV	Downy Mildew	Grain Text
	Rd/GY	Rank												
%	Avg	Sidev	cm	d	0-1	%	%	%	1-5	1-5	1-5	1-5	1-5	1-5
Entries with anthesis date between 58 - 62 days														
4 ZM305	100	16	8	62.3	158	0.41	16.8	10.5	6.6	1.9	2.3	2.9	1.4	2.2
20 ZM301 C1 (Botswana)	90	20	6	62.2	159	0.42	16.2	12.0	7.7	1.7	2.8	3.2	1.4	2.4
26 EEP0P104	78	24	7	59.4	163	0.45	23.1	9.3	10.6	1.8	2.6	2.8	2.4	2.6
16 EECOMPOSITE	63	27	5	58.9	158	0.45	23.9	10.0	11.6	1.8	2.8	3.0	2.5	2.6
Maturity group average	83	22	6	60.7	159	0.43	21.0	10.4	9.1	1.8	2.6	3.0	1.9	2.5
Entries with anthesis date between 64 - 68 days														
5 Syn01E2	116	8	6	66.4	167	0.45	13.2	14.4	4.8	1.8	2.4	2.9	1.6	2.5
11 ZM423	115	9	7	65.5	168	0.44	13.7	13.9	5.3	1.7	2.1	2.5	1.5	2.4
13 01SADVE	112	10	6	66.1	165	0.44	11.9	10.5	6.3	1.7	2.7	2.7	1.3	2.6
23 LTCOMP01 MALAWI	109	11	6	65.1	162	0.47	16.2	13.2	5.3	2.4	2.5	3.0	1.8	2.3
10 ZM521-FLINT	104	14	6	66.5	169	0.44	12.3	11.3	5.9	1.6	2.3	2.7	1.5	2.2
3 VV023	105	15	7	67.5	153	0.44	12.8	8.5	5.2	2.0	2.4	2.9	1.5	2.3
18 ZM303	101	15	7	64.9	157	0.46	14.3	11.2	6.5	1.7	2.3	3.1	1.7	2.0
9 ZM421-FLINT	99	16	6	66.9	163	0.49	11.9	11.7	5.8	1.9	2.5	2.6	1.5	2.0
2 VV022	98	17	7	67.3	149	0.44	14.1	13.0	5.3	1.9	2.3	2.8	1.9	2.0
30 LOCAL CHECK 2	96	17	9	67.1	173	0.49	13.5	15.5	7.9	8.6	1.7	2.4	2.5	2.4
6 Syn01E3	96	17	7	66.0	166	0.47	15.3	12.2	7.7	6.8	1.7	2.4	2.4	2.3
22 KAFULA (Malawi)	97	17	7	65.7	168	0.47	14.5	13.3	11.6	7.4	2.0	2.4	2.7	2.3
7 ZM421	93	19	9	67.6	167	0.47	13.7	8.9	15.1	4.1	1.8	2.7	1.7	2.4
29 LOCAL CHECK 1	89	20	10	67.4	168	0.45	13.4	15.0	10.2	5.6	2.0	2.4	2.7	2.1
25 MATINDIRI C1 MALAWI	89	20	6	67.9	154	0.46	14.1	12.0	5.6	4.5	2.9	2.7	2.7	2.0
28 MATUBA	91	21	8	66.2	163	0.47	18.6	14.6	5.7	5.2	2.3	2.9	3.2	1.4
17 PL15QC7-SRC1	89	21	6	65.8	161	0.43	12.5	10.9	12.3	5.7	1.7	3.0	1.8	2.0
Maturity group average	100	16	7	66.5	163	0.46	14.2	12.5	10.8	6.0	1.9	2.5	2.8	2.3
Entries with anthesis date > 68 days														
12 ZM523	124	6	6	68.4	169	0.46	10.3	11.4	15.1	7.8	2.1	2.4	1.9	2.1
15 02SADVE	116	7	5	68.8	172	0.45	7.2	10.0	4.4	1.9	1.9	2.5	1.8	2.8
14 01SADVI	118	8	6	68.2	174	0.45	9.5	10.4	13.9	5.1	2.0	2.3	2.6	2.7
24 MACOMP01 MALAWI	110	12	7	68.4	170	0.47	13.4	11.1	12.8	7.2	2.4	2.2	2.7	2.1
8 ZM521	109	12	7	68.3	165	0.46	9.4	10.6	13.0	3.9	2.1	2.3	2.7	1.9
27 KEP	108	13	9	69.5	173	0.49	13.5	15.4	9.1	7.7	2.2	2.3	3.0	2.8
1 VV021	104	15	7	68.3	163	0.44	8.9	9.3	7.7	5.9	2.1	2.2	2.6	2.3
19 AMEDIN-1	98	17	8	68.5	179	0.50	13.7	14.6	9.4	5.4	2.2	2.3	2.6	2.0
21 KEP C1 BOTSWANA	86	21	8	70.7	184	0.49	14.4	15.0	9.0	5.3	2.4	2.1	2.5	2.1
Maturity group average	108	12	7	68.8	172	0.47	11.5	11.7	10.6	6.3	2.1	2.3	2.6	2.1
Mean	99	16	7	66.4	165.3	0.46	14.3	13.2	10.7	6.5	2.0	2.4	2.7	1.9
LSD (0.05)				0.7	4.7	0.02	3.2	4.2	2.5	0.5	0.3	0.4	0.3	0.2
Min	63	6	5	58.9	148.9	0.41	6.6	7.2	3.0	3.9	1.6	1.9	2.3	1.0
Max	124	27	10	70.7	184.1	0.50	27.9	25.9	21.3	11.6	2.9	3.0	3.2	3.6
NumSignificantSites	43	43	43	35	23	20	15	17	5	4	1	6	3	5

ILPOPO3: Results of evaluation of intermediate to late maturing OPVs from Angola, CIMMYT, Ghana, Malawi and Tanzania across 56 sites in eastern and southern Africa, 2002/03. Individual sites results on pages 38-45 (Tables 4C to 4J). Color legend on page 3.

Entry	Name	Pedigree	Origin	Comments	Across		Agro-Ecological Zone: Southern Africa												Anth	Date
					Rel GY	Rank	Mid Alt		Mid Alt Humid		Mid Alt		Lowland Trop		Highlands		Managed Stress			
							E Africa	W Africa	Warm	Hot	Dry	Dry	Dry	Dry	N Stress	Low pH				
					%	Avg	A	B	C	D	E	F	G	H	I	J	t/ha	d		
Entries with anthesis date between 67 - 70 days																				
4	98SADVI	98SADVI F2	CIMMYT	Non-QPM	107	8	6.0	3.0	4.6	2.3	3.0	6.3	2.4	0.6			69.9			
16	TMV-1 DR C1	TMV-1 DR C1	TANZANIA	Non-QPM	96	13	5.0	2.8	3.6	2.3	2.4	4.8	1.8	0.9			68.9			
9	S01SIW/Q	S01SIW/Qc1F2 (QPM)	CIMMYT	QPM	83	15	4.9	3.2	3.8	1.8	2.7	5.4	1.5	0.6			67.4			
Maturity group average																				
Entries with anthesis date between 70 - 72 days																				
5	02SADVI	02SADVI F2	CIMMYT	Non-QPM	125	4	7.0	3.3	3.3	2.5	3.1	7.0	2.7	0.9			71.3			
5	01SADVL	01SADVL F2	CIMMYT	Non-QPM	109	7	6.2	3.3	4.8	2.0	2.8	6.7	2.3	0.8			70.6			
1	ZM611	[P501-SR/P502-SR] F2	CIMMYT	Non-QPM	109	8	6.1	3.0	4.9	2.3	2.8	6.7	2.2	0.8			70.5			
15	MASIKA	MASIKA	MALAWI	Non-QPM	93	12	5.4	2.7	4.0	2.5	2.4	6.2	1.9	0.6			70.7			
19	LOCAL CHECK 1	Various	Various	Non-QPM	89	13	5.8	2.3	3.0	1.7	2.5	5.4	1.5	0.9			71.7			
2	ZM621-FLINT	ZM621-FLINT F2	CIMMYT	Non-QPM	95	13	5.3	2.6	4.3	2.3	2.2	5.9	2.0	1.0			71.0			
20	LOCAL CHECK 2	Various	Various	Non-QPM	85	13	6.2	2.8	3.7	1.7	1.9	5.6	1.2	0.8			71.8			
8	WeeviiA/Bc1	WeeviiA/Bc1F2	CIMMYT	Non-QPM	94	13	5.4	2.8	3.7	2.1	2.2	5.6	2.0	0.8			70.5			
10	OBATANPA-ZM\$Rc1	OBATANPA-ZM\$Rc1F2	CIMMYT	QPM	87	14	5.6	2.6	4.0	2.0	2.3	5.2	1.4	0.6			71.0			
14	ALCI	ALCI	ANGOLA	Non-QPM	88	15	5.0	2.7	3.5	2.2	2.1	5.2	1.7	0.7			71.6			
Maturity group average																				
Entries with anthesis date > 72 days																				
7	02SADVL	02SADVL F2	CIMMYT	Non-QPM	123	4	6.5	3.5	5.1	2.8	3.2	6.8	2.6	1.2			72.4			
9	ZM623	99SADVL F2	CIMMYT	Non-QPM	120	5	7.4	3.5	5.1	2.5	3.1	7.1	2.5	1.2			72.0			
13	ECAVL2-DLN	ECAVL2-DLN	CIMMYT	Non-QPM	108	8	6.4	3.2	4.8	2.8	2.6	6.4	2.0	0.9			73.2			
17	KILIMA DR C1	KILIMA DR C1	TANZANIA	Non-QPM	106	9	6.9	3.5	4.6	2.4	2.5	6.6	1.9	0.5			72.5			
12	ECAVL1-DLN	ECAVL1-DLN	CIMMYT	Non-QPM	107	9	5.9	3.0	4.3	2.1	3.0	5.4	2.6	0.8			72.7			
18	STAHA DR C1	STAHA DR C1	TANZANIA	Non-QPM	94	12	6.0	3.1	4.1	2.5	2.3	5.3	1.4	0.7			74.6			
11	OBATANPA	OBATANPA	GHANA	QPM	81	16	5.4	2.7	3.9	1.7	2.3	4.2	1.4	0.6			72.3			
Maturity group average																				
	Mean				106	9	6.4	3.2	4.5	2.4	2.7	6.0	2.1	0.9			72.8			
	LSD (0.05)				100	11	5.9	2.9	4.2	2.2	2.6	5.9	1.9	0.8			71.3			
	Min				81	4	4.9	2.2	3.0	1.7	1.9	4.2	1.2	0.5			67.4			
	Max				125	16	7.4	3.5	5.5	2.8	3.3	7.1	2.8	1.2			74.6			
	NumSignificantSites				32	32	4	7	3	4	5	1	4	3			26			

ILPOP03: Results of evaluation of intermediate to late maturing OPVs from Angola, CIMMYT, Ghana, Malawi and Tanzania across 56 sites in eastern and southern Africa, 2002/03. Individual sites results on pages 38-45 (Tables 4C to 4J). Color legend on page 3.

Table 4B

Entry Name	Across		Anth Date	Plant Height	Ear Position	Lodging		Husk Cover	Ear Rot	GLS	Psorg	E.turc	MSV	Grain Text	
	Rel GY	Rank				Root	Stem								
%	Avg	Stdev	d	cm	0-1	%	%	%	%	1-5	1-5	1-5	1-5	1-5	
Entries with anthesis date between 67 - 70 days															
4 98SADVI	107	8	4	69.9	179	0.46	5.4	12.0	5.8	4.4	1.6	2.0	2.7	2.6	3.0
16 TMV-1 DR C1	96	13	4	68.9	180	0.48	6.1	14.6	4.2	7.7	2.8	2.7	2.8	3.7	1.7
9 S01SIWQ	83	15	5	67.4	170	0.41	8.7	12.7	10.8	7.3	2.4	1.9	2.9	3.9	2.6
Maturity group average															
95	12	4	4	68.7	176	0.45	6.7	13.1	6.9	6.5	2.2	2.2	2.8	2.8	2.4
Entries with anthesis date between 70 - 72 days															
6 02SADVI	125	4	4	71.3	183	0.47	2.9	5.5	7.5	5.1	1.5	2.0	2.7	2.1	3.0
5 01SADVL	109	7	4	70.6	179	0.47	3.5	8.5	5.2	6.3	1.6	1.8	2.7	2.0	2.7
1 ZM611	109	8	5	70.5	168	0.45	3.4	12.0	5.0	6.2	1.7	1.8	2.4	1.8	2.8
15 MASIKA	93	12	5	70.7	177	0.47	6.4	13.6	8.9	8.4	2.3	2.1	2.6	2.6	2.9
19 LOCAL CHECK 1	89	13	6	71.7	186	0.49	5.8	10.4	3.9	9.3	1.9	2.1	2.4	2.3	2.5
2 ZM621-FLINT	95	13	4	71.0	175	0.47	8.2	9.3	3.3	5.3	1.4	2.1	3.0	2.6	3.1
20 LOCAL CHECK 2	85	13	6	71.8	187	0.48	8.4	16.0	5.6	6.5	2.5	1.9	2.5	2.4	2.6
8 Weevii/Bc1	94	13	4	70.5	174	0.47	5.0	11.9	4.6	4.3	2.8	1.7	2.5	2.1	2.4
10 OBATANPA-ZMSRc1	87	14	5	71.0	193	0.48	12.3	14.6	3.0	7.8	2.0	2.6	3.2	2.7	2.7
14 ALCI	88	15	4	71.6	203	0.53	7.5	13.8	4.6	5.5	2.5	2.4	3.3	3.5	1.8
Maturity group average															
98	11	5	5	71.1	183	0.48	6.3	12.2	5.2	6.5	2.0	2.1	2.7	2.4	2.5
Entries with anthesis date > 72 days															
7 02SADVL	123	4	3	72.4	186	0.48	4.6	7.3	5.5	4.8	1.7	1.8	2.6	2.0	2.7
3 ZM623	120	5	4	72.0	184	0.48	4.3	9.4	5.5	5.7	1.8	1.8	2.6	2.1	3.0
13 ECAVL2-DLN	108	8	5	73.2	181	0.51	2.6	8.4	3.9	6.1	2.2	2.0	2.4	2.5	3.4
17 KILIMA DR C1	106	9	6	72.5	194	0.49	3.8	10.6	4.7	5.3	2.0	2.1	2.4	2.7	2.1
12 ECAVL1-DLN	107	9	5	72.7	174	0.46	1.6	8.0	4.5	6.4	2.1	2.3	2.6	2.6	3.1
18 STAHA DR C1	94	12	6	74.6	200	0.52	4.4	9.2	3.8	6.3	2.2	2.2	2.8	2.3	2.6
11 OBATANPA	81	16	3	72.3	187	0.47	11.5	10.5	2.4	5.8	2.0	2.7	3.1	2.8	2.9
Maturity group average															
106	9	5	5	72.8	187	0.49	4.7	9.1	4.3	5.8	1.9	2.1	2.6	2.4	2.7
Mean															
100	11	5	5	71.3	183.0	0.48	5.8	11.2	5.1	6.2	2.0	2.1	2.7	2.5	2.6
LSD (0.05)															
81	4	3	3	67.4	168.0	0.41	1.6	5.8	2.4	4.3	1.3	1.6	2.4	1.8	1.6
Min															
125	16	6	6	74.6	203.2	0.53	12.3	19.6	10.8	9.3	2.8	2.7	3.3	3.9	3.1
Max															
32	32	32	26	25	25	22	7	7	2	2	4	5	4	2	8

EIHYB03: Results of evaluation of early to intermediate maturing hybrids from AREX, CIMMYT, Monsanto, Pannar, SeedCo, and Zamseed across 56 sites in eastern and southern Africa, 2002/03. Individual sites results on pages 46-57 (Tables 5C to 5N). Color legend on page 3.

Entry	Name	Pedigree	Origin	Comments	Agro-Ecological Zone: Southern Africa												Date
					Across			Mid Alt	Mid Alt Humid		Mid Alt Lowland Tropical		Highlands		Managed Stress		
					Ref QY	Rank	Sldev	E Africa	Warm	Hot	Dry	Humid	Dry	N Stress	Low pH		
					%	Avg	Sldev	t/ha	A	B	C	D	E	F	t/ha	t/ha	
Entries with anthesis date between 61 - 65 days																	
24	CZH02008	CML312/CML442//CZL02007	CIMMYT	Non-QPM	103	18	10	5.6	4.6	3.7	2.7	0.7	3.8	2.6	2.0	1.3	65.0
1	983WH17	983WH17	ZIMBABWE	Non-QPM	93	23	9	4.7	4.2	3.5	2.4	0.7	3.3	2.8	2.5	1.1	61.9
3	953WH141	953WH141	ZIMBABWE	Non-QPM	92	23	10	4.9	4.2	3.6	2.0	1.0	3.1	2.8	2.7	0.8	62.9
Maturity group average					98	20	10	5.1	4.3	3.6	2.4	0.8	3.4	2.7	2.4	1.0	63.5
Entries with anthesis date between 66 - 69 days																	
11	CZH00007	CML444/CML445//CML440	CIMMYT	Non-QPM	108	13	9	5.8	4.8	4.9	2.5	1.0	3.7	2.7	2.9	2.2	68.2
18	CZH02002	CML443/CML445//CZL02002	CIMMYT	Non-QPM	108	14	8	5.8	4.6	4.8	2.7	0.8	3.9	3.1	2.8	1.6	68.2
12	CZH00012	CML440/CZL00005//CZL00001/CML312	CIMMYT	Non-QPM	106	14	9	6.0	4.6	4.4	2.7	0.6	3.7	2.5	3.1	1.8	66.9
14	CZH01005	CML395/CML442//CML440	CIMMYT	Non-QPM	108	15	10	5.5	4.3	5.0	2.3	0.8	4.2	3.3	2.6	2.2	67.9
25	CZH02009	CML395/CML444//CZL02008	CIMMYT	Non-QPM	105	16	8	5.5	4.8	4.8	2.4	0.7	3.6	3.0	2.6	1.7	68.2
20	CZH02004	CML312/CML442//CZL02003	CIMMYT	Non-QPM	103	17	10	5.3	4.6	5.1	2.5	0.6	4.0	2.7	3.0	1.2	68.0
22	CZH02006	CML312/CML442//CZL02005	CIMMYT	Non-QPM	100	17	9	5.9	4.7	4.4	2.4	0.5	3.8	3.1	2.2	1.4	68.0
27	CZH01002	CML312/CZL99014//CZL01001	CIMMYT	Non-QPM	100	19	9	5.4	4.7	4.2	2.3	0.4	3.4	2.6	2.4	1.3	68.1
7	SC403	SC403	SEED-CO	Non-QPM	97	19	10	4.7	4.6	4.9	2.4	0.4	3.2	3.3	2.1	1.4	66.9
8	SC407	SC407	SEED-CO	Non-QPM	96	19	10	5.1	4.4	4.5	2.3	0.4	3.7	3.0	3.3	1.2	67.8
17	CZH02001	CZL02001/CML445//CML440	CIMMYT	Non-QPM	102	20	11	5.1	4.3	4.0	2.1	1.2	3.4	2.8	2.7	1.6	67.3
2	983WH78	983WH78	ZIMBABWE	Non-QPM	96	21	10	4.4	4.4	4.2	2.3	0.4	3.6	2.9	2.0	1.4	67.6
4	DK8031	DK8031	MONSANTO	Non-QPM	94	21	9	4.9	4.4	4.9	2.4	0.8	3.2	3.2	2.4	1.4	68.5
33	CZH02014	CZL01006/CML176//CZL02010	CIMMYT	QPM	94	24	9	4.8	4.1	4.2	2.3	1.1	3.4	2.3	1.9	1.5	67.9
34	CZH02015	CZL01006/CML176//CZL02011	CIMMYT	QPM	90	24	10	4.4	4.1	4.3	2.3	0.6	3.6	2.3	2.1	0.6	66.6
36	Local Check2	Various	Various	Non-QPM	88	25	11	5.0	4.3	4.4	2.3	0.6	2.7	2.6	1.4	0.9	68.8
32	CZH02013	CML144/CML159//CZL02011	CIMMYT	QPM	87	26	9	5.1	4.3	4.1	2.2	0.6	3.3	2.0	2.1	1.1	68.5
30	CZH01033	CZL01006/CML176//PL15QC7-SRC1	CIMMYT	QPM	88	26	8	5.4	4.3	4.5	2.2	0.5	3.8	2.1	1.8	1.3	67.5
Maturity group average					98	20	9	5.2	4.4	4.5	2.4	0.7	3.6	2.7	2.4	1.4	67.8
Entries with anthesis date > 69 days																	
16	CZH01008	CML443/CML444//CZL00003	CIMMYT	Non-QPM	113	11	9	6.7	5.1	5.1	2.7	0.5	3.9	3.6	3.3	1.5	70.0
15	CZH01006	CML312/CML444//CZL00001	CIMMYT	Non-QPM	111	12	9	7.0	5.2	5.1	2.6	0.7	4.1	2.5	2.5	1.9	70.2
13	CZH00013	CML312/CML395//CZL00001	CIMMYT	Non-QPM	109	12	8	6.7	5.0	4.5	2.8	0.6	4.0	2.9	2.5	1.9	69.4
19	CZH02003	CZL02001/CML444//CML440	CIMMYT	Non-QPM	108	14	8	3.5	4.8	4.9	2.5	0.7	3.8	3.3	3.0	1.9	69.4
29	CZH02027	CZL00907//CZL00034//CML312	CIMMYT	Non-QPM	106	15	11	6.5	4.7	4.1	2.8	0.4	3.9	3.2	2.5	2.1	69.9
21	CZH02005	CML312/CML442//CZL02004	CIMMYT	Non-QPM	105	15	9	6.5	4.9	4.6	2.5	0.5	4.0	2.8	2.5	1.4	69.9
28	CZH02011	CZL99014/CML440//CML312	CIMMYT	Non-QPM	105	15	11	6.9	5.0	4.8	2.8	0.3	3.6	2.7	2.3	1.7	70.8
23	CZH02007	CML395/CML444//CZL02006	CIMMYT	Non-QPM	106	15	10	6.0	4.9	4.3	2.2	0.8	3.4	2.9	2.7	1.7	69.8
26	CZH02010	CML395/CML444//CZL02009	CIMMYT	Non-QPM	102	17	10	3.1	4.6	4.8	2.4	0.6	3.4	2.8	3.3	1.6	69.8
6	PAN31	PAN31	PANNAR	Non-QPM	101	19	12	5.8	4.8	5.3	2.3	0.7	3.5	3.9	1.9	1.7	70.6
5	PAN6479	PAN6479	PANNAR	Non-QPM	101	19	11	6.1	4.7	4.5	2.6	0.4	3.2	3.2	2.3	1.4	69.8
10	MM502N	MM502N	ZAMSEED	Non-QPM	97	19	10	5.2	4.8	4.2	2.4	0.2	3.4	2.7	2.0	1.8	71.3
9	SC513	SC513	SEED-CO	Non-QPM	95	19	11	4.9	4.3	5.2	2.6	0.4	3.6	3.1	2.8	1.2	69.5
35	Local Check1	Various	Various	Non-QPM	98	21	11	6.1	4.6	4.1	2.1	0.7	3.1	3.1	1.5	1.1	69.3
31	CZH02012	CML144/CML159//CZL02010	CIMMYT	QPM	84	26	8	5.3	4.3	4.5	2.3	0.6	3.1	2.4	1.7	1.8	70.2
Maturity group average					103	17	10	6.0	4.8	4.6	2.5	0.5	3.6	3.0	2.5	1.6	70.0
Mean					100	19	10	5.5	4.5	4.4	2.4	0.5	3.6	2.8	2.4	1.4	68.3
LSD (0.05)								0.8	0.3	0.3	0.3	0.4	0.5	0.6	0.7	0.5	0.5
Min					84	11	8	4.4	3.8	3.5	2.0	0.2	2.7	2.0	1.4	0.6	61.9
Max					113	26	12	7.0	5.5	5.3	2.8	1.2	4.2	3.9	3.3	2.2	71.3
NumSignificantSites					39	39	39	4	12	2	7	1	5	3	2	2	32

Within a maturity group, colors that have no letter in common are different by at least one LSD.	Color legend	
	A	Very good
	AB	Good
	BC	Average
	CD	Poor
D	Very poor	

EHYB03: Results of evaluation of early to intermediate maturing hybrids from AREX, CIMMYT, Monsanto, Pannar, SeedCo, and Zamseed across 56 sites in eastern and southern Africa, 2002/03. Individual sites results on pages 46-57 (Tables 5C to 5N). Color legend on page 3.

Table 5B

Entry	Name	Across			Anth Date	Plant Height	Ear Position	Lodging		Husk Cover	Ear Rot	GLS	P.sorg	E.turo	MSV	Grain Text
		Rel GY	Rank	Stdev				Root %	Stem %							
		%	Avg	Stdev	d	cm	0-1	%	%	%	%	1-5	1-5	1-5	1-5	1-5
Entries with anthesis date between 61 - 65 days																
24	CZH02008	103	18	10	65.0	182	0.43	14.4	17.2	12.7	10.6	2.0	2.3	2.0	1.6	2.7
1	983WH17	93	23	9	61.9	169	0.42	16.2	12.8	6.3	11.8	1.9	2.2	2.1	1.6	3.2
3	953WH141	92	23	10	62.9	171	0.44	18.8	11.1	8.3	14.0	1.8	2.3	2.2	1.7	3.1
	Maturity group average	98	20	10	63.5	175	0.43	16.5	13.7	8.9	10.8	1.9	2.3	2.1	1.7	3.0
Entries with anthesis date between 66 - 69 days																
11	CZH00007	108	13	9	68.2	173	0.49	7.1	5.4	1.9	5.7	1.8	1.9	2.3	1.8	2.6
18	CZH02002	108	14	8	68.2	181	0.50	8.7	5.1	9.8	5.6	1.7	1.9	2.3	2.1	2.4
12	CZH00012	106	14	9	66.9	175	0.44	8.1	7.0	14.5	11.5	2.1	2.2	2.0	1.4	2.7
14	CZH01005	108	15	10	67.9	169	0.47	9.9	5.5	11.3	7.6	1.8	2.0	2.1	1.9	2.8
25	CZH02009	105	16	8	68.2	182	0.47	10.1	4.6	14.2	6.4	2.0	2.0	2.0	1.6	2.8
20	CZH02004	103	17	10	68.0	166	0.47	6.5	7.8	12.4	6.3	2.0	1.9	1.9	1.8	3.1
22	CZH02006	100	17	9	68.0	178	0.43	6.4	5.8	13.1	7.8	2.2	2.0	2.0	1.9	3.1
27	CZH01002	100	19	9	68.1	194	0.43	7.2	9.7	13.6	6.2	1.8	2.2	1.9	1.5	2.6
7	SC403	97	19	10	66.9	184	0.45	9.4	8.1	15.0	8.7	1.9	2.0	1.9	1.6	2.9
8	SC407	96	19	10	67.8	188	0.45	18.5	9.9	9.5	8.3	1.9	2.2	1.9	1.7	2.8
17	CZH02001	102	20	11	67.3	168	0.45	7.0	5.0	14.6	5.9	1.8	2.0	2.0	1.6	3.1
2	983WH78	96	21	10	67.6	186	0.50	18.9	12.2	15.0	11.0	1.9	2.0	2.1	2.2	3.0
4	DK8031	94	21	9	68.5	187	0.48	7.8	10.0	16.7	9.1	1.8	2.1	1.8	1.9	4.3
33	CZH02014	94	24	9	67.9	179	0.45	15.6	9.3	11.3	7.7	1.8	2.0	2.2	1.6	3.4
34	CZH02015	90	24	10	66.6	170	0.41	13.2	11.0	9.2	12.0	2.0	2.0	2.1	1.5	3.1
36	Local Check2	88	25	11	68.8	187	0.48	14.5	7.9	12.5	11.0	2.4	2.4	1.8	2.5	3.3
32	CZH02013	87	26	9	68.5	175	0.44	11.3	9.5	11.7	9.3	2.0	2.4	2.0	1.9	3.1
30	CZH01033	88	26	8	67.5	177	0.45	12.2	12.0	10.9	13.3	1.9	2.0	2.1	1.8	2.2
	Maturity group average	98	20	9	67.8	179	0.46	10.5	8.1	13.5	8.5	1.9	2.1	2.0	1.8	2.6
Entries with anthesis date > 69 days																
16	CZH01008	113	11	9	70.0	200	0.52	11.3	10.4	10.1	6.7	1.8	1.9	1.9	1.9	3.2
15	CZH01006	111	12	9	70.2	196	0.47	5.7	3.6	6.7	10.4	2.2	2.3	2.0	2.0	3.0
13	CZH00013	109	12	8	69.4	190	0.47	8.7	5.3	14.5	8.9	1.8	2.2	2.2	1.6	2.7
19	CZH02003	108	14	8	69.4	172	0.46	5.7	5.9	11.2	5.5	2.0	1.8	2.1	1.6	2.4
29	CZH02027	106	15	11	69.9	197	0.47	12.9	10.0	7.9	6.6	1.9	2.0	2.1	1.8	2.5
21	CZH02005	105	15	9	69.9	184	0.48	10.1	10.7	7.9	5.9	1.9	1.8	2.1	1.8	2.8
28	CZH02011	105	15	11	70.8	196	0.45	5.3	3.8	14.9	7.0	2.0	1.9	1.9	2.1	2.5
23	CZH02007	106	15	10	69.8	184	0.50	7.8	4.3	10.3	5.7	1.9	2.0	2.1	1.5	3.4
26	CZH02010	102	17	10	69.8	191	0.47	12.5	9.2	14.1	4.5	2.0	2.1	2.0	1.8	2.6
6	PAN31	101	19	12	70.6	178	0.45	15.4	8.7	13.7	10.3	1.8	2.1	2.0	2.0	4.0
5	PAN6479	101	19	11	69.8	183	0.47	8.5	8.8	15.7	10.8	1.8	2.0	2.4	2.0	3.9
10	MM502N	97	19	10	71.3	192	0.47	10.9	8.6	6.5	7.3	1.9	1.9	1.9	1.6	2.4
9	SC513	95	19	11	69.5	190	0.47	15.6	11.0	8.5	8.6	1.8	2.1	1.9	1.9	3.0
35	Local Check1	98	21	11	69.3	183	0.46	12.8	7.1	12.9	14.0	1.9	1.9	1.8	2.2	2.3
31	CZH02012	84	26	8	70.2	182	0.46	12.5	8.5	9.8	5.7	2.2	2.3	2.0	1.6	3.1
	Maturity group average	103	17	10	70.0	188	0.47	10.5	7.7	11.8	8.0	1.9	2.0	2.1	1.8	2.8
Mean		100	19	10	68.3	182.2	0.48	11.0	8.4	12.4	8.5	1.9	2.1	2.0	1.8	2.7
LSD (0.05)					0.5	4.1	0.01	4.1	3.2	3.8	2.5	0.3	0.2	0.2	0.3	0.3
Min		84	11	8	61.9	165.8	0.41	3.7	3.6	4.4	4.6	1.7	1.6	1.8	1.1	1.5
Max		113	26	12	71.3	200.3	0.52	18.8	17.2	33.0	14.0	2.4	2.6	2.5	2.5	4.2
NumSignificantSites		39	39	39	32	25	21	12	16	8	8	2	6	7	5	8

ILHYB03: Results of evaluation of intermediate to late maturing hybrids from CIMMYT, Monsanto, Pannar, Pioneer, Seed Co and Zamseed across 49 sites in eastern and southern Africa, 2002/03. Individual sites results on pages 58-68 (Tables 6C-6M). Color legend on page 3.

Entry	Name	Pedigree	Origin	Comments	Agro-Ecological Zone: Southern Africa												Table 6A	
					Across			Mid Alt	Mid Alt Humid		Mid Alt		Lowland Tropical		Highlands	Managed Stress		Auth
					Rel GY	Rank		E Africa	Warm	Hot	Dry	Humid	Dry		N Stress	Low pH	Date	
					%	Avg	Stdev	t/ha	A	B	C	D	E	F	t/ha	t/ha	d	
Entries with anthesis date between 69 - 72 days																		
33	CZH01015	CZL00011/CML395/CML312	CIMMYT	Non-QPM	111	18	12	7.6	5.5	5.3	1.8	1.8	2.9	7.8	2.8	1.0	71.9	
20	98C2890	98C2890	SEED-CO	Non-QPM	103	22	13	7.2	4.7	5.5	1.6	2.0	3.0	7.9	2.9	0.9	69.6	
25	CZH00025	CML440/CML444/CML445	CIMMYT	Non-QPM	101	23	12	7.2	5.3	5.3	1.7	1.3	2.9	7.4	2.6	0.8	71.6	
19	SC633	SC633	SEED-CO	Non-QPM	99	24	14	8.7	5.7	5.3	1.9	2.4	2.4	6.7	2.1	0.7	71.5	
9	PAN47 = PAN5503	PAN47 = PAN5503	PANNAR	Non-QPM	100	24	12	7.5	4.8	6.0	1.6	1.3	3.0	7.0	2.3	1.0	71.6	
41	CZH99055	CML182/CML175/OBATANPA	CIMMYT	QPM	85	33	13	8.7	5.5	5.3	1.2	1.9	2.8	5.1	1.8	0.9	71.2	
	Maturity group average				100	24	13	7.5	5.0	5.4	1.7	2.2	2.8	7.0	2.4	0.9	71.2	
Entries with anthesis date between 72 - 74 days																		
31	CZH02020	CZL02014/CML197/CZL02015	CIMMYT	Non-QPM	121	14	12	7.4	5.9	5.6	1.7	2.2	2.2	8.3	2.8	1.2	73.4	
28	CZH00026	CML395/CML444/CML442	CIMMYT	Non-QPM	115	14	10	8.1	5.8	5.5	1.9	2.0	3.0	7.1	2.9	1.1	74.0	
32	CZH02021	CML442/CML443/CZL02016	CIMMYT	Non-QPM	117	15	11	8.7	5.8	5.9	1.7	1.5	2.9	7.8	3.0	1.4	72.4	
29	CZH02018	CML197/CML444/CZL02012	CIMMYT	Non-QPM	117	16	12	8.1	5.8	5.1	1.8	1.7	3.0	7.5	3.0	1.1	73.9	
24	CZH99037	CML395/CML444/CML443	CIMMYT	Non-QPM	113	16	10	7.9	5.7	5.9	1.8	1.8	2.6	8.4	2.7	1.3	73.1	
10	PAN57	PAN57	PANNAR	Non-QPM	114	18	12	7.4	5.4	5.8	1.8	1.8	2.9	6.6	2.6	1.2	72.9	
16	PHB30D53	PHB30D53	PIONEER	Non-QPM	107	18	14	8.8	5.8	5.8	1.9	1.3	2.8	8.9	2.9	1.0	73.0	
21	00C5351	00C5351	SEED-CO	Non-QPM	110	19	13	8.1	5.6	5.8	1.8	1.8	2.5	7.8	2.6	1.3	73.1	
18	SC713	SC713	SEED-CO	Non-QPM	104	20	15	7.1	5.5	5.9	1.6	1.8	2.5	9.3	2.5	1.3	73.5	
6	PAN15	PAN15	PANNAR	Non-QPM	106	21	11	8.0	5.5	5.1	1.6	1.9	2.6	8.2	2.4	1.1	72.9	
7	PAN33	PAN33	PANNAR	Non-QPM	105	22	10	8.0	5.6	5.2	1.7	2.0	2.4	7.6	2.4	1.2	72.3	
46	CZH02026	CZL00034/CZL00008/CML312	CIMMYT	Non-QPM	105	22	13	6.9	5.0	5.4	1.5	2.0	3.0	7.2	2.8	1.2	73.2	
13	PHB30H83	PHB30H83	PIONEER	Non-QPM	100	22	14	7.6	5.9	5.9	1.5	1.5	2.3	7.0	2.4	1.2	73.2	
15	PHB30T47	PHB30T47	PIONEER	Non-QPM	101	23	12	8.1	5.5	5.2	1.6	1.7	2.5	8.3	2.7	1.1	72.3	
43	CZH02023	CML395/CML444/CZL02018	CIMMYT	Non-QPM	103	24	14	8.7	5.2	4.9	1.8	2.0	2.5	6.6	2.7	1.2	72.1	
14	PHB30G97	PHB30G97	PIONEER	Non-QPM	98	27	11	6.9	5.4	5.2	1.4	1.5	2.3	6.6	2.2	1.0	72.8	
11	PAN77	PAN77	PANNAR	Non-QPM	96	27	13	8.2	4.9	4.9	1.6	2.0	2.5	7.7	2.0	1.1	72.4	
38	CZH01018	CZL00029/CZL99014/CML395	CIMMYT	Non-QPM	93	27	12	7.3	5.2	5.4	1.5	1.9	2.0	8.0	2.6	0.9	73.5	
12	PHB30R73	PHB30R73	PIONEER	Non-QPM	94	27	12	7.4	5.0	5.2	1.5	1.7	2.4	8.6	2.4	0.9	73.1	
42	CZH02022	CML395/CML444/CZL02017	CIMMYT	Non-QPM	99	29	13	6.1	5.0	4.9	1.5	2.4	2.3	8.3	2.2	1.1	73.4	
3	DK8051	DK8051	MONSANTO	Non-QPM	89	32	11	8.7	5.3	4.9	1.6	1.4	2.3	8.0	2.1	1.0	73.6	
48	LOCAL CHECK 2	Various	Various	Non-QPM	85	33	15	7.5	5.0	5.0	1.2	2.1	2.1	5.0	2.8	1.1	73.3	
47	LOCAL CHECK 1	Various	Various	Non-QPM	87	33	13	7.5	4.7	5.4	1.6	1.0	2.1	8.2	2.4	0.7	73.3	
22	MM603N	MM603N	ZAMSEED	Non-QPM	87	33	13	8.3	4.7	5.7	1.4	1.5	2.0	8.4	1.9	1.2	73.0	
40	CZH99061	CML144/CML159/OBATANPA	CIMMYT	QPM	79	37	11	5.9	4.5	5.9	1.5	1.4	2.1	8.8	1.9	0.7	73.8	
8	PAN45	PAN45	PANNAR	Non-QPM	72	40	10	8.1	5.4	5.2	1.3	1.0	1.8	7.1	1.7	0.8	73.8	
23	GV704N	GV704N	ZAMSEED	Non-QPM	72	41	7	8.1	5.3	4.0	1.3	1.2	1.8	5.8	1.6	0.8	73.8	
	Maturity group average				100	25	12	7.2	5.2	5.0	1.6	1.7	2.4	7.2	2.4	1.1	73.1	
Entries with anthesis date > 74 days																		
26	CZH01011	CML444/CML197/CZL00018	CIMMYT	Non-QPM	115	15	11	9.1	6.1	5.2	1.8	1.8	2.2	7.9	2.9	0.9	74.8	
30	CZH02019	CML444/CML197/CML488	CIMMYT	Non-QPM	114	15	13	8.3	5.8	5.4	1.8	1.9	2.2	9.1	2.7	0.9	74.2	
37	CZH01017	CZL00029/CML312/CML395	CIMMYT	Non-QPM	109	19	12	7.7	5.9	5.6	1.5	1.8	2.6	6.9	2.7	1.1	74.5	
35	CZH99021	CML395/CML202/CML312	CIMMYT	Non-QPM	106	19	14	8.3	5.7	6.2	1.6	1.7	2.7	8.5	3.1	1.1	74.7	
34	CZH01020	CZL01004/CML216/CML312	CIMMYT	Non-QPM	108	20	11	8.0	5.3	5.3	1.6	1.7	2.8	7.8	3.0	1.1	74.1	
27	CZH01012	CML312/CML442/CML395/CML444	CIMMYT	Non-QPM	104	21	12	7.8	6.2	5.5	1.6	1.3	2.5	7.9	2.7	0.9	74.9	
36	CZH99030	CML395/CML216/CML312	CIMMYT	Non-QPM	102	22	13	8.2	5.9	6.1	1.4	1.3	2.3	6.9	2.5	1.0	75.3	
2	GV659	GV659 = B41/L12	ZAMBIA	Non-QPM	99	24	14	8.3	5.6	5.3	1.6	1.6	2.1	7.0	2.5	0.9	75.1	
44	CZH02024	CZL99013/CZL99005/CML202	CIMMYT	Non-QPM	100	25	11	8.7	5.4	5.5	1.4	1.4	2.6	7.5	2.4	1.2	74.5	
1	GV640	GV640 = B40/L917	ZAMBIA	Non-QPM	100	25	14	7.7	5.2	5.8	1.4	1.7	1.9	7.2	2.2	1.3	75.3	
45	CZH02025	CZL00006/CML442/CZL00008	CIMMYT	Non-QPM	98	27	11	7.5	5.6	5.0	1.4	1.4	2.3	8.1	2.3	1.0	74.4	
5	DK8071	DK8071	MONSANTO	Non-QPM	97	27	12	8.7	5.3	4.7	1.4	1.5	2.1	7.8	2.4	1.3	75.8	
17	SC715	SC715	SEED-CO	Non-QPM	91	28	14	8.2	5.8	5.0	1.3	1.0	1.8	8.2	2.3	0.9	76.1	
4	ZA8551	ZA8551	MONSANTO	Non-QPM	90	33	10	6.8	4.7	4.7	1.3	1.3	2.1	6.8	2.3	0.9	74.2	
39	CZH99052	CML144/CML159/CML176	CIMMYT	QPM	75	38	9	8.0	5.4	4.8	1.3	2.0	2.5	8.8	2.1	0.7	75.1	
	Maturity group average				101	24	12	7.7	5.5	5.3	1.5	1.7	2.4	7.4	2.5	1.0	74.9	
	Mean				100	25	12	7.4	5.2	5.1	1.6	1.8	2.5	7.2	2.4	1.0	73.4	
	LSD (0.05)							1.0	0.5	0.7	0.3	0.8	0.4	1.4	0.4	0.3	0.6	
	Min				72	14	7	4.3	3.4	2.8	1.2	1.0	1.5	4.8	1.6	0.7	69.6	
	Max				121	41	15	9.3	6.2	6.2	2.2	4.9	3.8	9.3	3.1	1.4	76.1	
	NumSignificant Sites				41	41	41	4	9	2	5	2	7	1	5	5	26	

ILHYB03: Results of evaluation of intermediate to late maturing hybrids from CIMMYT, Monsanto, Pannar, Pioneer, Seed Co and Zamseed across 49 sites in eastern and southern Africa, 2002/03. Individual sites results on pages 58-68 (Tables 6C-6M). Color legend on page 3.

Table 6B

Entry	Name	Across			Anth Date	Plant Height	Ear Position	Lodging		Husk Cover	Ear Rot	GLS	P.sorg	E.turc	MSV	Grain Text
		Rel GY	Rank	Stdev				Root	Stem							
		%	Avg		d	cm	0-1	%	%	%	%	1-5	1-5	1-5	1-5	1-5
Entries with anthesis date between 69 - 72 days																
33	CZH01015	111	18	12	71.9	191	0.46	7.4	8.1	11.9	10.0	1.9	1.8	2.2	2.1	2.7
20	98C2890	103	22	13	69.6	177	0.47	8.3	10.2	11.9	9.0	2.1	1.8	2.4	1.5	2.9
25	CZH00025	101	23	12	71.6	178	0.47	7.7	6.1	8.4	9.3	1.8	1.8	2.4	1.7	2.7
19	SC633	99	24	14	71.5	192	0.47	6.9	7.0	13.5	16.2	1.9	1.7	2.4	1.7	3.1
9	PAN47 = PAN5503	100	24	12	71.6	165	0.43	3.5	8.0	8.0	12.7	1.9	2.1	2.4	2.8	3.8
41	CZH99055	85	33	13	71.2	188	0.47	12.8	12.8	4.8	14.2	2.8	2.8	2.9	2.1	3.1
	Maturity group average	100	24	13	71.2	182	0.46	8.1	8.4	9.0	11.9	1.9	1.8	2.4	2.0	3.2
Entries with anthesis date between 72 - 74 days																
31	CZH02020	121	14	12	73.4	182	0.51	4.1	4.6	14.2	8.3	1.7	1.7	2.3	1.8	2.9
28	CZH00026	115	14	10	74.0	188	0.48	4.8	8.9	4.9	8.8	2.0	1.8	2.6	1.8	3.8
32	CZH02021	117	15	11	72.4	191	0.48	7.8	13.4	8.9	6.1	2.0	1.8	2.3	1.8	3.8
29	CZH02018	117	16	12	73.9	190	0.49	9.0	8.2	8.4	9.4	1.8	1.7	2.3	1.9	2.9
24	CZH99037	113	16	10	73.1	191	0.53	9.0	8.0	5.4	7.5	1.7	1.8	2.5	2.0	2.9
10	PAN57	114	18	12	72.9	184	0.49	5.9	10.3	6.5	12.7	1.8	2.0	2.1	1.8	2.8
16	PHB30D53	107	18	14	73.0	208	0.49	8.5	8.8	9.8	14.5	1.7	2.0	2.1	1.8	3.8
21	00C5351	110	19	13	73.1	197	0.48	7.6	7.0	6.2	13.2	1.8	1.8	2.3	2.0	2.9
18	SC713	104	20	15	73.5	203	0.52	9.5	8.2	12.0	14.1	1.8	2.0	2.3	1.7	3.3
6	PAN15	106	21	11	72.9	185	0.47	7.6	11.7	7.9	7.4	2.0	1.9	2.5	1.6	2.9
7	PAN33	105	22	10	72.3	188	0.49	10.3	9.7	10.6	12.9	1.9	2.0	2.2	2.5	3.1
46	CZH02026	105	22	13	73.2	192	0.46	5.5	7.6	4.4	11.5	1.9	1.8	2.2	2.4	2.9
13	PHB30H83	100	22	14	73.2	191	0.47	5.6	8.0	11.4	13.3	1.8	1.8	2.3	1.8	3.1
15	PHB30T47	101	23	12	72.3	208	0.49	7.1	12.0	10.4	10.2	1.8	1.7	2.2	1.7	3.8
43	CZH02023	103	24	14	72.1	180	0.49	6.8	8.0	11.0	7.0	2.2	1.8	2.5	1.7	3.2
14	PHB30G97	98	27	11	72.8	186	0.48	10.5	7.5	6.5	8.8	1.9	1.8	2.1	2.6	3.0
11	PAN77	96	27	13	72.4	189	0.48	10.4	11.8	11.2	12.9	2.0	2.0	2.8	1.8	2.8
38	CZH01018	93	27	12	73.5	193	0.50	10.5	7.8	5.8	7.2	1.9	1.6	2.3	1.7	2.9
12	PHB30R73	94	27	12	73.1	173	0.48	13.4	9.5	12.1	17.4	1.8	1.6	2.4	1.8	2.9
42	CZH02022	99	29	13	73.4	187	0.47	10.3	12.0	11.8	8.6	1.9	2.1	2.2	1.8	2.9
3	DK8051	89	32	11	73.6	177	0.45	10.2	8.7	13.0	14.9	1.7	2.0	2.2	1.8	2.9
48	LOCAL CHECK 2	85	33	15	73.3	193	0.47	12.7	12.9	11.7	18.8	2.8	2.2	2.5	2.8	3.0
47	LOCAL CHECK 1	87	33	13	73.3	193	0.49	9.7	7.7	11.4	10.8	2.4	2.0	2.3	1.8	3.1
22	MM603N	87	33	13	73.0	193	0.49	9.3	8.3	5.2	12.0	2.0	1.8	2.5	2.5	3.2
40	CZH99061	79	37	11	73.8	188	0.46	13.7	12.7	5.4	10.7	1.9	2.8	2.4	2.2	2.9
8	PAN45	72	40	10	73.8	165	0.45	9.3	6.7	6.4	16.9	2.1	1.7	2.2	1.8	3.3
23	GV704N	72	41	7	73.8	201	0.45	10.2	9.1	8.8	17.8	1.8	1.9	2.3	2.1	3.3
	Maturity group average	100	25	12	73.1	189	0.48	9.3	9.1	8.9	12.0	1.9	1.8	2.4	2.1	3.0
Entries with anthesis date > 74 days																
26	CZH01011	115	15	11	74.8	190	0.52	5.9	7.3	4.6	8.8	1.8	1.9	2.3	1.8	2.8
30	CZH02019	114	15	13	74.2	191	0.53	7.6	6.0	3.8	8.2	1.9	1.7	2.3	1.8	2.9
37	CZH01017	109	19	12	74.5	196	0.49	11.1	9.8	7.9	9.1	1.9	1.4	2.3	2.1	2.5
35	CZH99021	106	19	14	74.7	198	0.47	5.8	8.7	7.1	7.9	1.8	1.5	2.1	2.3	2.8
34	CZH01020	108	20	11	74.1	191	0.45	5.8	7.0	7.6	14.1	1.8	1.6	2.4	1.8	2.9
27	CZH01012	104	21	12	74.9	199	0.49	5.2	7.6	8.1	9.6	1.8	1.4	2.5	2.2	2.9
36	CZH99030	102	22	13	75.3	204	0.47	8.8	10.0	6.5	8.1	1.8	1.8	2.3	2.3	2.5
2	GV659 = B41/L12	99	24	14	75.1	194	0.49	6.2	13.1	8.0	7.7	1.5	1.9	2.2	2.1	3.8
44	CZH02024	100	25	11	74.5	194	0.51	6.0	8.7	4.7	4.6	1.8	1.7	2.1	1.6	2.8
1	GV640 = B40/L917	100	25	14	75.3	206	0.51	15.3	8.3	3.6	7.6	1.8	1.4	2.0	1.7	2.7
45	CZH02025	98	27	11	74.4	192	0.51	5.2	7.1	4.3	9.9	1.9	1.6	2.0	1.9	2.8
5	DK8071	97	27	12	75.8	186	0.47	8.5	10.7	4.3	7.7	1.7	1.8	2.4	2.8	2.6
17	SC715	91	28	14	76.1	203	0.51	7.4	10.4	7.5	9.3	1.7	1.5	2.5	2.2	2.6
4	ZA8551	90	33	10	74.2	177	0.45	7.8	11.4	11.9	12.2	2.0	2.8	2.3	2.4	3.4
39	CZH99052	75	38	9	75.1	186	0.44	16.3	13.1	5.4	15.1	1.9	2.3	2.4	2.7	3.9
	Maturity group average	101	24	12	74.9	194	0.49	8.0	9.2	6.4	8.9	1.8	1.7	2.3	2.2	2.7
Mean		100	25	12	73.4	189.9	0.48	8.7	9.0	8.1	11.0	1.9	1.8	2.3	2.1	2.9
LSD (0.05)					0.6	3.8	0.01	3.8	3.1	3.2	4.4	0.2	0.2	0.2	0.4	0.2
Min		72	14	7	69.6	165.0	0.43	3.5	4.6	1.6	4.6	1.4	1.4	2.0	1.3	2.0
Max		121	41	15	76.1	208.4	0.53	16.5	13.4	17.4	25.4	2.8	2.4	2.8	3.2	4.1
NumSignificantSites		41	41	41	26	30	26	12	16	7	6	6	8	7	5	14

QHYB03: Results of evaluation of Quality Protein Maize Hybrids from CIMMYT, Seed Co and an OPV from CIMMYT across 52 sites in eastern and southern Africa, 2002/03...
Individual sites results on pages 69-76 (Tables 7C to 7J). Color legend on page 3.

Table 7A

Entry Name	Pedigree	Origin	Comments	Across		Rel GY		Rank		Agro-Ecological Zone: Southern Africa										Anth	Date
				Avg	Sidev	%	Rel GY	Rank	Mid Alt E Africa	Mid Alt Warm	Mid Alt Humid	Mid Alt Dry	Lowland Humid	Lowland Tropical	Highlands Dry	Highlands F	N Stress	Low pH	Managed Stress		
Entries with anthesis date between 69 - 70 days																					
4) CZH01025	CZL01006/CML176/CML182	CIMMYT	QPM	12	6	104	4.6	4.3	4.1	3.9	2.6	5.5	2.1	1.6	69.6						
11 CZH01034	CML175/CML176/PL15QC7-SRC1	CIMMYT	QPM	16	5	92	4.8	3.8	3.7	3.0	2.4	4.4	2.2	1.3	68.4						
14 CZH02016	CML175/CML176/CZL02011	CIMMYT	QPM	17	7	86	4.4	4.0	3.2	3.2	2.4	4.1	1.8	0.9	68.2						
10 CZH01033	CZL01006/CML176/PL15QC7-SRC1	CIMMYT	QPM	19	4	81	4.7	3.9	3.3	3.0	2.1	4.1	1.9	1.0	69.3						
Maturity group average																					
Entries with anthesis date between 70 - 72 days																					
22 CZH01008 (Normal Check2)	CML444/CML443/CZL00003	CIMMYT	Non-QPM	6	5	119	5.3	4.7	4.4	4.4	2.5	2.6	2.2	70.5							
20 02C3728	02C3728	Seed Co	QPM	8	6	110	5.3	5.2	4.9	3.2	2.4	1.3	71.9								
19 CZH01028	CML181/CML182/CZL01006	CIMMYT	QPM	9	6	108	5.0	5.1	4.4	3.2	2.4	5.3	1.6	0.9	70.3						
17 CZH01024	CZL01006/CML176/CML181	CIMMYT	QPM	10	6	107	6.7	4.8	4.6	3.8	2.4	5.3	2.4	1.1	71.5						
2 CZH01031	CML181/CZL01005/CML176	CIMMYT	QPM	11	6	111	6.6	4.9	4.7	4.1	2.8	4.9	2.1	1.8	71.6						
1 CZH01029	CML181/CZL01005/CZL01006	CIMMYT	QPM	10	6	110	6.4	5.2	4.5	4.5	2.6	4.7	1.9	1.4	71.0						
3 CZH01030	CZL01005/CML182/CZL01006	CIMMYT	QPM	11	7	105	6.2	5.2	4.7	3.3	2.8	5.0	1.5	0.9	70.6						
8 CZH01021	CZL01006/CML176/CML181/CZL01005	CIMMYT	QPM	11	6	101	6.1	5.0	4.5	3.7	2.3	5.5	2.3	0.8	71.6						
16 CZH01022	CZL01006/CML176/CML181/CML182	CIMMYT	QPM	11	6	103	6.3	4.7	4.3	3.4	2.6	4.9	2.0	1.8	70.3						
18 CZH01032	CML181/CML182/CML176	CIMMYT	QPM	11	6	104	6.4	4.8	4.3	4.0	2.3	5.2	2.4	1.1	71.4						
6 CZH99051	CML144/CML159/CML182	CIMMYT	QPM	13	6	99	4.6	4.1	3.9	2.8	2.3	5.2	2.0	1.2	71.1						
5 CZH01027	CZL01006/CML176/CZL01005	CIMMYT	QPM	13	6	97	6.0	4.6	4.3	4.5	2.3	4.8	1.9	1.0	70.5						
9 CZH01023	CZL01006/CML176/CZL01005/CML182	CIMMYT	QPM	13	5	98	6.0	4.3	4.4	3.4	2.6	4.0	1.9	1.1	70.4						
13 CZH99061	CML144/CML159/OBATANPA	CIMMYT	QPM	14	6	93	5.6	4.5	4.7	4.1	3.1	2.2	4.5	1.6	0.9	70.4					
12 CZH99055	CML182/CML175/OBATANPA	CIMMYT	QPM	17	5	88	5.0	4.0	3.9	3.0	2.0	4.6	1.9	1.3	70.8						
15 OBATANPA-ZMSRc1F2	OBATANPA-ZMSRc1F2	CIMMYT	QPM	20	5	78	4.4	3.7	3.4	2.9	2.4	3.6	1.5	0.7	70.8						
Maturity group average																					
Entries with anthesis date > 72 days																					
21 CZH00026 (Normal Check1)	CML395/CML444/CML442	CIMMYT	Non-QPM	5	5	120	3.1	2.6	4.9	4.4	2.5	1.3	72.7								
24 Local Check 2	Various	Various	Non-QPM	11	8	108	6.5	4.4	4.1	4.8	4.1	2.5	2.3	1.9	73.4						
23 Local Check 1	Various	Various	Non-QPM	14	8	96	6.2	4.7	4.0	4.3	3.3	1.9	1.7	2.5	72.5						
7 CZH99052	CML144/CML159/CML176	CIMMYT	QPM	19	4	80	4.7	4.2	3.4	3.5	1.9	4.5	1.5	1.0	73.2						
Maturity group average																					
Mean				12	6	101	6.2	4.8	4.4	4.3	3.8	2.2	2.0	1.7	72.9						
LSD (0.05)				12	6	100	6.1	4.8	4.2	3.4	3.5	1.9	1.5	1.0	70.9						
Min				5	4	78	4.1	3.6	3.8	3.2	2.8	1.8	1.5	0.6	68.2						
Max				20	8	120	7.3	6.1	5.5	5.3	4.5	2.9	2.7	2.5	73.4						
NumSignificantSites				40	40	40	8	6	6	5	1	8	3	1	34						

QHYB03: Results of evaluation of Quality Protein Maize Hybrids from CIMMYT, Seed Co and an OPV from CIMMYT across 52 sites in eastern and southern Africa, 2002/03. Individual sites results on pages 69-76 (Tables 7C to 7J). Color legend on page 3.

Table 7B

Entry Name	Across		Plant Date	Height	Plant Position	Lodging		Husk Cover	Ear Rot	GLS	P.sorg	E.turc	MSV	Grain Text	QPM Modification
	Ral GY	Rank				Stdev	Avg								
Entries with anthesis date between 68 - 70 days															
4 CZH01025	104	12	6	69.6	189	0.47	25.1	3.1	21.8	1.8	2.6	1.5	1.5	1.5	2.3
11 CZH01034	92	16	5	68.4	189	0.47	25.4	2.5	20.4	1.8	2.6	2.6	1.9	2.3	2.0
14 CZH02016	86	17	7	68.2	180	0.42	21.4	3.8	17.3	2.1	2.7	2.8	1.5	1.9	1.7
10 CZH01033	81	19	4	69.3	182	0.47	29.6	3.0	25.0	1.9	2.5	2.6	1.7	1.8	2.0
Maturity group average	91	16	5	68.9	185	0.46	25.4	3.1	21.1	1.9	2.6	2.5	1.7	2.1	2.0
Entries with anthesis date between 70 - 72 days															
22 CZH01008 (Normal Check2)	118	6	5	70.5	202	0.53	22.9	11.6	8.3	1.9	1.7	1.9	1.7	2.7	2.7
20 OZG0720	110	8	6	71.9	191	0.51	17.3	9.2	20.2	2.4	2.1	1.9	2.5	3.1	2.7
19 CZH01028	108	9	6	70.3	188	0.47	19.3	5.4	28.8	1.7	2.1	2.2	1.6	3.1	2.7
17 CZH01024	107	10	6	71.5	197	0.48	23.7	5.7	18.4	1.9	2.3	1.9	2.5	3.1	2.0
2 CZH01031	111	10	6	71.6	194	0.50	28.3	8.9	17.9	1.5	2.3	1.9	2.5	3.1	2.0
1 CZH01029	110	10	6	71.0	192	0.48	26.4	2.3	29.1	1.7	2.0	2.2	2.1	3.0	2.3
3 CZH01030	105	11	7	70.6	189	0.49	27.1	9.1	18.9	1.6	2.1	2.4	1.7	2.7	2.3
8 CZH01021	101	11	6	71.6	188	0.50	24.8	5.0	20.6	1.5	2.2	2.0	2.4	2.8	2.7
16 CZH01022	103	11	6	70.3	191	0.47	26.3	12.9	19.6	1.8	2.3	1.9	1.6	2.8	2.3
18 CZH01032	104	11	6	71.4	193	0.47	23.2	4.5	11.3	1.4	2.5	1.7	1.7	2.7	2.7
6 CZH00051	99	13	6	71.1	190	0.48	18.5	5.9	11.1	2.3	1.9	2.3	1.9	2.5	2.7
5 CZH01027	97	13	6	70.5	185	0.51	25.8	3.7	28.6	1.5	2.1	2.1	2.5	2.8	2.7
9 CZH01023	98	13	5	70.4	187	0.50	20.2	2.3	21.5	1.6	2.2	2.2	2.1	2.7	3.0
13 CZH99061	93	14	6	70.4	189	0.50	29.0	4.7	29.3	1.6	2.3	2.2	2.0	2.6	2.0
12 CZH99055	88	17	5	70.8	197	0.50	30.7	2.7	17.5	3.2	2.2	3.3	2.7	3.5	2.0
15 OBATANPA-ZMSRc1F2	78	20	5	70.8	197	0.50	34.9	4.4	16.1	2.0	2.7	3.1	3.1	3.8	2.7
Maturity group average	102	12	6	70.9	192	0.49	24.6	6.1	17.9	1.7	2.2	2.1	2.1	2.8	2.6
Entries with anthesis date > 72 days															
21 CZH00020 (Normal Check1)	120	5	5	72.1	196	0.51	1.0	5.7	12.2	1.6	1.9	3.4	3.4	3.7	0.7
24 Local Check 2	108	11	8	73.4	202	0.53	28.6	5.0	15.5	1.9	2.3	1.8	1.8	2.8	2.3
23 Local Check 1	96	14	8	72.5	207	0.55	28.2	4.1	16.6	1.8	2.1	2.0	1.8	2.9	1.5
7 CZH99052	80	19	4	73.2	195	0.46	31.4	11.6	14.1	1.7	2.2	2.1	2.2	2.1	1.3
Maturity group average	101	12	6	72.9	200	0.51	26.6	5.4	15.2	1.8	2.1	2.1	1.8	2.9	1.2
Mean	100	12	6	70.9	192.0	0.49	25.1	5.5	15.9	1.8	2.2	2.2	1.9	2.7	2.3
LSD (0.05)				0.5	4.1	0.02	5.2	5.4	9.2	0.2	0.2	0.2	0.4	0.2	0.9
Min	78	5	4	68.2	180.2	0.42	12.3	1.0	8.3	1.3	1.5	1.7	1.4	1.8	0.7
Max	120	20	8	73.4	206.8	0.55	32.8	12.9	39.8	2.5	2.7	2.8	2.6	3.7	4.7
NumSignificantSites	40	40	40	34	23	15	10	3	3	10	9	8	6	10	1



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.

3. Descriptions of Traits Recorded

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

PLS	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).
Borer damage	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).
<i>Busseola</i> larvae	Count of the number of <i>Busseola</i> larvae. Higher the number indicates susceptibility.
<i>Chilo</i>	Score for the severity of <i>Chilo partellus</i> leaf damage rated on a scale from 1 (= no infestation) to 9 (= severely infested).
Leaf toughness	Force required to puncture leaves between veins as measured by the penetrometer. Genotypes with lower numbers tend to be susceptible to borers.
Grain weevil (Total F1)	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.
Grain weevil (Wt loss)	Loss of weight of the grain samples caused by weevil feeding during a given period of incubation. Large values indicate susceptibility to weevils.
Grain texture	Rated on a scale from 1 (= flint) to 5 (=dent).
Grain moisture	Percent water content of grain as measured at harvest.
ASI	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.
EPP	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.
Leaf rolling	Leaf rolling score measured under drought stress on a scale from 1 (unrolled, turgid leaves, desirable) to 5 (severely rolled leaves, undesirable).
Senescence	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
QPM Modification	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.

4. Sites

(Sorted by environment then by country then by location)

Trial	Location	Country	Collaborator	Env	PlantingDate	GY(t/ha)	LocalCheck1	LocalCheck2
EPOP0347	Maseru	Les	M. Ranthamane	A	MAIN03	1.9		
EIHYB0343	Maseru	Les	M. Ranthamane	A	MAIN03	1.9		MCHOTSANJALA
ILPOP0344	Bvumbwe	Mal	W. Paduwa	A	Main03	4.2	MASIKA F1	MH18
ILHYB0337	Bvumbwe	Mal	W. Paduwa	A	14-Dec-02	5.7	SC627	DK8071
QHYP0323	Bvumbwe	Mal	W. Paduwa	A	17-Dec-02	4.3	SC627	MCHOTSANJALA
ILPOP0343	Chitedze	Mal	G. Nhiane	A	12-Dec-02	5.8	MASIKA F1	MH18
ILHYB0336	Chitedze	Mal		A	13-Dec-02	7.9	SC627	DK8071
QHYP0322	Chitedze	Mal		A	12-Dec-02	8.1	SC627	DK8071
ILPOP0348	Lichinga	Moz		A	1-Aug-03	1.5	MATEQURNHA	OBREGON (F)
ILHYB0343	Lichinga	Moz		A	8-Jan-03	3.7	MUSSA-2	SUSSUMA
QHYP0330	Lichinga	Moz		A	10-Jan-03	3.6	MUSSA-2	SUSSUMA
EPOP032	Greytown	RSA	Link Seed	A	28-Nov-02	5.1	LS 8525	LS 8507
EIHYB031	Greytown	RSA	Link seed	A	28-Nov-02	6.3	LS8525	LS8507
ILPOP0316	Mbulumbulu	Tan	F. Swai	A	15-Feb-03	3.9		SITUKA-1
EIHYB0312	Mbulumbulu	Tan	F. Swai	A	14-Feb-03	5.0	KILIMA-ST	SITUKA-M1
ILHYB0315	Mbulumbulu	Tan	E. Albert	A	14-Feb-03	4.8	KILIMA-ST-SR	SITUKA M1
QHYP037	Mbulumbulu	Tan	F. Swai	A	15-Feb-03	3.8	LISHE K1	KILIMA-ST
EPOP0324	Ukiriguru	Tan	I. Rwiza	A	10-Feb-03	2.1	TMV-1	KILIMA-ST
EIHYB0316	Ukiriguru	Tan	I. Rwiza	A	10-Feb-03	2.2	TMV-1	KILIMA-ST
EPOP0314	Chisamba	Zam	Zamseed	A	23-Dec-02	1.9	POOL16	MMV400
ILPOP0310	Chisamba	Zam	Zamseed	A	23-Dec-02	3.0	LAPOSTA SQ	MMV600
EIHYB038	Chisamba	Zam	Zamseed	A	23-Dec-03	3.1	GV470	GV412
ILHYB037	Chisamba	Zam	Zamseed	A	MAIN03	2.7	MM502N	MM605N
EPOP0312	Golden Valley	Zam	C. Mungoma	A	17-Dec-02	7.5	POOL16	MMV400
EIHYB0339	Golden Valley	Zam	C. Mungoma	A	17-Dec-02	9.3	MRI 455	GV 470
EPOP0310	Mt Makulu	Zam	C. Mungoma	A	12-Dec-02	7.3	POOL16	MMV400
ILPOP036	Mt Makulu	Zam	C. Mungoma	A	12-Dec-02	7.0	POP 10	POP 25
EIHYB0337	Mt Makulu	Zam	C. Mungoma	A	12-Dec-02	7.8	GV408	GV470
ILHYB034	Mt Makulu	Zam	C. Mungoma	A	12-Dec-02	8.8	MM502	MRI634
EPOP0313	Zamseed Farm	Zam	Zamseed	A	16-Dec-03	3.7	POOL16	MMV400
ILPOP039	Zamseed Farm	Zam	Zamseed	A	16-Dec-03	4.3	LOPOSTA SQ	MMV600
EIHYB037	Zamseed Farm	Zam	Zamseed	A	16-Dec-03	5.5	GV470	GV412
ILHYB036	Zamseed Farm	Zam	Zamseed	A	MAIN03	5.7	MM502N	MM603N
EPOP0341	ART Farm	Zim	CIMMYT	A	18-Nov-02	7.3	00SADVE F2	00SADVI F2
ILPOP0337	ART Farm	Zim	CIMMYT	A	18-Nov-02	7.4	DRS-#	NUINE-#
EIHYB0329	ART Farm	Zim	CIMMYT	A	18-Nov-02	9.0	SC405	SC515

Trial	Location	Country	Collaborator	Env	PlantingDate	GY(t/ha)	LocalCheck1	LocalCheck2
ILHYB0329	ART Farm	Zim	CIMMYT	A	18-Nov-02	8.8	SC627	SC709
QHYB0318	ART Farm	Zim	CIMMYT	A	18-Nov-02	7.4	SC627	SC713
EIHYB0353	Harare	Zim	X. Mhike	A	13-Dec-02	2.5	ZS257	ZS255
QHYB0361	Harare	Zim	CIMMYT	A		0.0		
EPOP0343	Marondera	Zim	D. Dhliwayo	A	18-Nov-02	0.9		
EPOP0366	Marondera	Zim	D. Dhliwayo	A	18-Nov-02	1.0		
EPOP0368	Marondera	Zim	D. Dhliwayo	A	18-Nov-02	0.8		
ILPOP0339	Marondera	Zim	D. Dhliwayo	A	18-Nov-02	1.0		
ILPOP0352	Marondera	Zim	D. Dhliwayo	A	18-Nov-02	1.0		
ILPOP0354	Marondera	Zim	D. Dhliwayo	A	18-Nov-02	0.9		
EIHYB0332	Marondera	Zim	D. Dhliwayo	A	18-Nov-02	1.0		
EIHYB0355	Marondera	Zim	D. Dhliwayo	A	18-Nov-02	1.1		
EIHYB0357	Marondera	Zim	D. Dhliwayo	A	18-Nov-02	0.7		
ILHYB0331	Marondera	Zim	D. Dhliwayo	A	18-Nov-02	1.1		
ILHYB0346	Marondera	Zim	D. Dhliwayo	A	18-Nov-02	0.8		
EPOP0345	Ratray Arnold	Zim	SEED-CO	A	29-Nov-02	0.6	SC407	SC513
ILPOP0341	Ratray Arnold	Zim	SEED-CO	A	29-Nov-02	0.7	SC627	SC513
ILHYB0334	Ratray Arnold	Zim	SEED-CO	A	29-Nov-02	0.8	SC713	SC513
QHYB0321	Ratray Arnold	Zim	SEED-CO	A	29-Nov-02	0.6	SC513	02C3821
EIHYB0334	Ratray Arnold	Zim	SEED-CO	A	29-Nov-02	0.8	SC407	SC513
ILPOP0332	Kilombo	Ang	F. Sito	B	18-Feb-03	1.6	BRONCO REDONDO	SAM-3
EPOP0334	Kilombo	Ang	F. Sito	B	17-Feb-03	2.3	SAM-3	BRANCO REDONDO
EPOP0325	Mazozo	Ang	F. Sito	B	5-Feb-03	2.4	ZM 521	BRANCO REDONDO
ILPOP0327	Mazozo	Ang	F. Sito	B	2-Aug-03	3.8	ZM521	BRANCO REDONDO
EIHYB0320	Mazozo	Ang	F. Sito	B	8-Feb-03	3.3	ZM521	BRANCO REDONDO
ILHYB0319	Mazozo	Ang	F. Sito	B	8-Feb-03	3.9	ZM521	BRANCO REDONDO
QHYB0311	Mazozo	Ang	F. Sito	B	8-Feb-03	3.8	ZM521	BRANCO REDONDO
EPOP0354	Chitala	Mal	A. Chimphamba	B	18-Dec-02	4.7	CHITIBU	OPV GLS
EIHYB0345	Chitala	Mal	A. Chimphamba	B	Main03	5.5	MH18	MH16
QHYB0324	Chitala	Mal	A. Chimphamba	B	18-Dec-02	5.9	SC627	DK8071
ILPOP0345	Makoka	Mal	OIC Makoka	B	16-Dec-02	6.5	MASIKA F1	MCHOTSANJALA
QHYB0325	Makoka	Mal		B	16-Dec-02	6.1	SC627	DK8071
ILPOP0350	Angonia Tete	Moz	SPA/DPADR	B	23-Dec-02	4.6	KANJIREJIRE	BANTAMU
ILHYB0340	Angonia Tete	Moz	SPA/DDADR	B	24-Dec-02	6.4	KANJIREJIRE	BANTAMU
QHYB0331	Angonia Tete	Moz	SPA/DADDER	B	29-Dec-02	5.8	KANJIREJIRE	BANTAMU
EPOP0357	Sussundenga	Moz	P. Fato	B	21-Nov-02	2.1	MATULA-INIA	LAPOSTA SUSSUNDENGA
ILPOP0349	Sussundenga	Moz		B	21-Nov-02	2.0	MANICA SR	SUSSUMA QPM

Trial	Location	Country	Collaborator	Env	PlantingDate	GY(t/ha)	LocalCheck1	LocalCheck2
EIHYB0348	Sussundenga	Moz	P. Fato	B	20-Nov-02	3.4	MANICA SR	SUSSUMA QPM
ILHYB0342	Sussuridenga	Moz	P. Fato	B	20-Nov-02	2.7	MANICA SR	SUSSUMA (QPM)
QHYB0332	Sussundenga	Moz	P. Fato	B		3.4	SUSSUMA QPM	QS7705 HYB QPM
QHYB0354	Katrin	Tan	A. Liampawe	B	23-Mar-03	3.9		
ILPOP0319	Tabora	Tan	TUMBI-ARI	B	16-Dec-02	0.2	TMV-1	KILIMA-ST-MSV
EPOP0321	Tumbi	Tan	Tumbi-ARI	B	16-Dec-02	0.2	TMV-1	KILIMA ST-SR
ILHYB0312	Weruweru	Tan	D. Feruguruka	B	4-Apr-03	6.6	PAN67	CG4141
EPOP0311	Msekera	Zam	C. Mungoma	B	16-Dec-02	1.5	POOL16	MMV400
ILPOP037	Msekera	Zam	C. Mungoma	B	16-Dec-02	1.5	POP 10	POP25
QHYB0338	Msekera	Zam	C. Mungoma	B	16-Dec-02	2.0	GV703	GV704
EPOP0315	Pelotshetha	Bot	A. Lekgari	C	19-Dec-02	0.8		
ILPOP0311	Pelotshetha	Bot	A. Lekgari	C	19-Dec-02	1.1		
EIHYB0310	Pelotshetha	Bot	A. Lekgari	C	18-Dec-02	0.9		
ILHYB0310	Pelotshetha	Bot	A. Lekgari	C	17-Dec-02	0.7		
EPOP0351	Baka	Mal	P. Banda	C	4-Jan-03	2.8	CHITIBU	OPV GLS
EIHYB0344	Baka	Mal	P. N. Banda	C	2-Jan-03	4.3	MH18	MH16
QHYB0326	Baka	Mal	P. Banda	C	10-Jan-03	1.6	SC627	DK8071
EPOP0385	Umbeluzi	Moz		C	4-Jun-03	4.3	SEMOC-1	MANICA-SR
EIHYB0331	Umbeluzi	Moz	J. Carlos	C	4-Jun-03	5.0	SC405	SC515
QHYB0319	Umbeluzi	Moz		C	4-Jun-03	6.0	MANICA SR	MOCUBA
EPOP033	Potchefstroom	RSA		C	6-Nov-02	1.1	CRW3505	CRN3549
ILPOP032	Potchefstroom	RSA		C	12-Jun-02	3.0	CRN3505	CRN3549
EIHYB032	Potchefstroom	RSA		C	6-Dec-02	3.5	CRN 3505	CRN 3549
QHYB0333	Potchefstroom	RSA		C	6-Dec-02	3.8	QS7705	CRN3549
EPOP036	Maljærns	Swa	M. Hlope	C	7-Nov-02	3.9	SWAZI1	SWAZI2
ILPOP034	Maljærns	Swa	M. Hlope	C	11-Jul-02	3.5	SWAZI 1	SWAZI 2
ILPOP033	Nhlangano	Swa	M. Hlope	C	25-Nov-02	3.4	SWAZI 1	SWAZI 2
ILHYB031	Nhlangano	Swa	M. Hlope	C	14-Nov-02	3.9	CG4141	CRN3549
EPOP037	Shewula	Swa	M. Hlope	C	26-Nov-02	2.0	SWAZI YELLOW	SWAZI WHITE
EPOP0322	Arusha	Tan	G. Kazimoto	C	31-Mar-03	1.2	KITO-ST	TMV1-SR
ILPOP0317	Arusha	Tan	SARI	C	31-May-03	1.0	KILIMA ST-SR	SITUKA M1
EIHYB0314	Arusha	Tan	Z. Mduruma	C	31-Mar-03	1.6	PAN67	CG4141
ILHYB0313	Arusha	Tan	Z. Mduruma	C	31-Mar-03	1.0	PAN67	CG4141
QHYB036	Arusha	Tan	G. Kazimoto	C	1-Apr-03	1.4	LISHE K1	SITUKA 1
EPOP0342	Kadoma	Zim	CIMMYT	C	3-Jan-03	4.2	00SADVE F2	00SADVI F2
EPOP0346	Kadoma	Zim	SEED-CO	C	MAIN03	9.2	SC627	SC513
ILPOP0338	Kadoma	Zim	CIMMYT	C	1-Mar-03	4.2	DRS-#	NUINE-#

Trial	Location	Country	Collaborator	Env	PlantingDate	GY(t/ha)	LocalCheck1	LocalCheck2
ILPOP0342	Kadoma	Zim	SEED-CO	C	11-Dec-02	0.9	SC627	SC513
EIHYB0330	Kadoma	Zim	CIMMYT	C	3-Jan-03	4.1	SC405	SC515
EIHYB0335	Kadoma	Zim	SEED-CO	C	MAIN03	0.8	SC627	SC513
ILHYB0330	Kadoma	Zim	CIMMYT	C	3-Jan-03	3.4	SC627	SC709
ILHYB0333	Kadoma	Zim	SEED-CO	C	MAIN03	0.9	SC627	SC513
QHYB0320	Kadoma	Zim	SEED-CO	C	MAIN03	8.9	SC627	SC513
QHYB0341	Kadoma	Zim	CIMMYT	C	3-Jan-03	3.7	SC627	SC713
EPOP0338	Makoholi	Zim	CIMMYT	C	20-Dec-02	2.0	00SADVE F2	00SADVI F2
EPOP0371	Makoholi	Zim	X. Mhike	C	19-Dec-02	0.4	SILVER KING	KATUMANI
ILPOP0334	Makoholi	Zim	CIMMYT	C	20-Dec-02	1.8	DRS-#	NUJINE-#
ILPOP0364	Makoholi	Zim	X. Mhike	C	19-Dec-02	0.3	CBI KALAHARI	CBI SALISBURY WHITE
EIHYB0327	Makoholi	Zim	CIMMYT	C	20-Dec-02	1.8	SC405	SC515
EIHYB0354	Makoholi	Zim	X. Mhike	C	30-Dec-02	0.7	CBI ZS257	CBI ZS253
ILHYB0326	Makoholi	Zim	CIMMYT	C	20-Dec-02	2.1	SC627	SC709
ILHYB0354	Makoholi	Zim	X. Mhike	C	19-Dec-02	0.5	ZS206	ZS233
QHYB0315	Makoholi	Zim	CIMMYT	C	20-Dec-02	2.0	SC627	SC713
QHYB0337	Makoholi	Zim	X. Mhike	C	30-Dec-02	0.9	R215	R200
EPOP0332	Cabinda	Ang	F. Sito	D	6-Jun-03	0.6	ZM521	BRANCO REDONDA
EIHYB0323	Cabinda	Ang	F. Junior	D	17-Dec-03	0.6	MATUBA	MANZALA
EIHYB0324	Cabinda	Ang	F. Sito	D	3-Feb-03	0.5	MATUBA	MANZALA
ILHYB0323	Cabinda	Ang	F. Sito	D	5-Feb-03	0.3	MATUBA	MANZALA
QHYB0312	Cabinda	Ang	F. Sito	D	20-Dec-02	0.8	Dente de Cavallo	Matuba
EPOP0393	Ilonga	Tan	C. Mbuya	D	14-Feb-03	2.4	KITO	KATUMANI-ST
ILPOP0383	Ilonga	Tan	J. Assenga	D	15-Feb-03	2.5	STAHA	TMV-1
EIHYB0380	Ilonga	Tan	J. Assenga	D	14-Feb-03	1.5	CG4141	TMV-1
EIHYB0381	Ilonga	Tan	J. Assenga	D	14-Feb-03	3.0	CG4141	TMV-1
ILHYB0358	Ilonga	Tan	J. Assenga	D	15-Feb-03	3.1	STAHA	TMV-1
QHYB0352	Ilonga	Tan	J. Assenga	D	14-Feb-03	1.0	STAHA	CG4141
QHYB0353	Ilonga	Tan	J. Assenga	D	14-Feb-03	3.6	STAHA	CG4141
EPOP0329	Mazozo	Ang	F. Sito	E	18-Jun-03	1.8	BRANCO REDONDO	ZM421
ILPOP0321	Mazozo	Ang	F. Sito	E	6-Jun-03	2.7	ZM521	BRANCO REDONDO
QHYB0313	Mazozo	Ang	F. Sito	E	18-Jun-03	1.2	ZM521	BRANCO REDONDA
EPOP0316	Goodhope	Bot	L. Lekgari	E	24-Dec-02	3.1		
ILPOP0313	Goodhope	Bot	L. Lekgari	E	24-Dec-02	2.2		
EIHYB0311	Goodhope	Bot	L. Lekgari	E	24-Dec-02	2.9		
ILHYB0338	Goodhope	Bot	L. Lekgari	E	24-Dec-02	2.3		
QHYB031	Goodhope	Bot	L. Lekgari	E	24-Dec-02	2.7		

Trial	Location	Country	Collaborator	Env	PlantingDate	GY(t/ha)	LocalCheck1	LocalCheck2
EPOP0319	Sebele	Bot	L. Lekgari	E	21-Dec-02	0.7		
ILPOP0312	Sebele	Bot	L. Lekgari	E	21-Dec-02	0.2		
EIHYB039	Sebele	Bot	L. Lekgari	E	21-Dec-02	0.2		
ILHYB039	Sebele	Bot	L. Lekgari	E	21-Dec-02	0.7		
QHYB032	Sebele	Bot	L. Lekgari	E	21-Dec-02	1.1		
QHYB0345	Kiboko	Ken	W. Muasya	E	18-Jun-03	0.9	WS403	WS904
EPOP0353	Chitala	Mal	A. Chimphamba	E	22-May-03	1.1	CHITUBU	OPV GLS
EIHYB0346	Chitala	Mal	A. Chimphamba	E	22-May-03	1.6	MH18	MH16
ILHYB0338	Chitala	Mal	A. Chimphamba	E	22-May-03	1.9	MH18	SC627
ILPOP0346	Salima	Mal	A. Chimphamba	E	22-May-03	1.7	MASIKA F1	MCHOTSANJALA
EPOP0358	Chokwe	Moz		E	22-Nov-02	4.7	SUSSUMA	MATUBA
EIHYB0351	Chokwe	Moz		E	22-Nov-02	5.0	SUSSUMA	MATUBA
QHYB0328	Chokwe	Moz	A. Marcie	E	22-Nov-02	3.4	SUSSUMA	MATUBA
EPOP0355	Nampula	Moz		E	23-Dec-02	3.5	SUSSUMA	MATUBA
ILPOP0351	Nampula	Moz		E	23-Dec-02	3.6	MATUBA	SUSSUMA
EIHYB0349	Nampula	Moz		E	23-Dec-02	4.9	SUSSUMA	MATUBA
ILHYB0341	Nampula	Moz		E	27-Dec-02	4.0	SUSSUMA	MATUBA
QHYB0329	Nampula	Moz	P. Fato	E	23-Dec-02	4.0	SUSSUMA	MATUBA
EPOP0360	Mpumalanga	RSA	B. Beck	E	10-Dec-02	0.6	GRACE PRE BASIC	SUSSUMA
EPOP0323	Arusha	Tan	G. Mbwambo	E	29-May-03	2.0		TMV-1
ILPOP0320	Arusha	Tan	Z. Mduruma	E	29-May-03	1.5	KILIMA-ST	SITUKA M1
EIHYB0313	Arusha	Tan	K. Kitenge	E	29-May-03	2.0	PAN67	CG4141
ILHYB0311	Arusha	Tan	Z. Mrinji	E	29-May-03	2.0	PAN67	CG4141
QHYB034	Arusha	Tan		E	29-May-03	2.4	KILIMA ST	
EPOP039	Nanga	Zam	C. Mungoma	E	MAIN03	4.6	POOL16	MMV400
ILPOP035	Nanga	Zam	C. Mungoma	E	MAIN03	4.2	POP10	POP25
EIHYB0336	Nanga	Zam	C. Mungoma	E	MAIN03	4.5	GV408	GV470
ILHYB033	Nanga	Zam	C. Mungoma	E	MAIN03	4.5	MM502	MRI634
EPOP0339	Chiredzi	Zim	CIMMYT	E	12-May-03	1.8	00SADVE F2	00SADVI F2
ILPOP0335	Chiredzi	Zim	CIMMYT	E	15-May-03	3.0	DRS#	NUINE#
EIHYB0328	Chiredzi	Zim	CIMMYT	E	21-May-03	1.4	SC405	SC515
ILHYB0327	Chiredzi	Zim	CIMMYT	E	14-May-03	1.8	SC627	SC709
QHYB0316	Chiredzi	Zim	CIMMYT	E	14-May-03	2.1		
ILPOP0376	Save Valley	Zim	X. Mhike	E	5-Nov-03	2.0	KALAHARI	SALISBURY WHITE
ILHYB0364	Save Valley	Zim	X. Mhike	E	11-May-03	2.3	ZS206	SR52
QHYB0347	Save Valley	Zim	X. Mhike	E	24-May-03	2.0	R215	R200
EPOP0398	Save Valley	Zim	X. Mhike	E	25-May-03	1.2		

Trial	Location	Country	Collaborator	Env	PlantingDate	GY(t/ha)	LocalCheck1	LocalCheck2
EIHYB0378	Save Valley	Zim	X. Mhike	E	24-May-03	2.0	ZS257	ZS255
EPOP0328	Humpata	Ang	F. Sito	F	27-Nov-02	5.6	SAM3	DENTE de CAVALO
ILPOP0325	Humpata	Ang	F. Sito	F	27-Nov-02	5.9	SAM3	DENTE de CAVALO
EIHYB0319	Humpata	Ang	F. Sito	F	3-Dec-02	5.8	SAM3	DENTE de CAVALO
ILHYB0320	Humpata	Ang	F. Sito	F	27-Nov-02	7.2	SAM3	DENTE de CAVALO
QHYB038	Humpata	Ang	F. Sito	F	12-Dec-02	5.0		
EPOP0349	Mahobong	Les	M. Ranthamane	F	MAIN03	2.9		
EIHYB0342	Mahobong	Les	M. Ranthamane	F	MAIN03	2.5		
EPOP0348	Nyakosoba	Les	M. Ranthamane	F	MAIN03	0.7		
EIHYB0341	Nyakosoba	Les	M. Ranthamane	F	MAIN03	0.3		
EPOP0326	Mazozo	Ang	F. Sito	LN	29-Jan-03	3.0		
ILPOP0328	Mazozo	Ang	F. Sito	LN	29-Jan-03	2.6		
EIHYB0322	Mazozo	Ang	F. Sito	LN	31-Jan-03	2.7	BRANCO REDONDO	
QHYB039	Mazozo	Ang	F. Sito	LN	31-Jan-03	2.6	BRANCO REDONDO	
EPOP0317	Goodhope	Bot	L. Lekgari	LN	24-Dec-02	2.5		
QHYB0349	Alupe	Ken	M. Wambuliwa	LN	14-Apr-03	1.6	KSTP94	H623
EPOP0350	Chitedze	Mal	V. Kabambe	LN	11-Dec-02	1.6	CHITIBU	OPV GLS
ILPOP0365	Chitedze	Mal	V. Kabambe	LN	12-Nov-02	1.8	MCHOTSANJALA	KAKHOMERA
ILHYB0335	Chitedze	Mal	V. Kabambe	LN	11-Dec-02	2.2	SC627	MH18
EPOP0361	Ezolimo	RSA	M. Anthony	LN	21-Nov-02	0.4	PHB 3235	SNK 2147
EPOP0359	Friedenheim Valley	RSA	M. Anthony	LN	7-Nov-02	2.7	PHB 3235	SNK 2147
EPOP0320	Arusha	Tan	Z. Mduruma	LN	3-Apr-03	1.9	KITO ST	TMV-1
ILPOP0318	Arusha	Tan	Z. Mduruma	LN	4-Feb-03	2.2	KILIMA-SR	SITUKA-M1
EIHYB0315	Arusha	Tan	Z. Mduruma	LN	3-Apr-03	3.2	PAN67	CG4141
ILHYB0314	Arusha	Tan	Z. Mduruma	LN	1-Apr-03	3.0	PAN67	CG4141
QHYB033	Arusha	Tan	Z. Mduruma	LN	1-Apr-03	2.8	LISHE K1	SITUKA-1
EPOP0394	Ilonga	Tan	C. Mbuya	LN	14-Feb-03	1.6	KITO-ST	KATUMANI-ST
ILPOP0382	Ilonga	Tan	C. Mbuya	LN	15-Feb-03	2.9	STAHA	TMV-1
ILHYB0359	Ilonga	Tan	C. Mbuya	LN	15-Feb-03	2.7	STAHA	TMV-1
EIHYB0338	Golden Valley	Zam	C. Mlungoma	LN	22-Dec-02	3.2	MRI445	GV470
EPOP0340	Harare	Zim	CIMMYT	LN	2-Dec-02	1.9	00SADVE F2	00SADVI F2
EPOP0370	Harare	Zim	X. Mhike	LN	13-Dec-02	2.2	SILVER KING	KATUMANI
ILPOP0336	Harare	Zim	CIMMYT	LN	12-Jul-02	1.8	DRS-#	NUINE-#
ILPOP0363	Harare	Zim	X. Mhike	LN	13-Dec-02	2.1		
EIHYB0352	Harare	Zim	CIMMYT	LN	8-Nov-02	1.7	SC405	SC515
ILHYB0328	Harare	Zim	CIMMYT	LN	7-Dec-02	2.2	SC627	SC709

Trial	Location	Country	Collaborator	Env	PlantingDate	GY(t/ha)	LocalCheck1	LocalCheck2
ILHYB0353	Harare	Zim	X. Mhike	LN	13-Dec-02	2.1	ZS206	ZS233
QHYB0335	Harare	Zim	ClIMMYT	LN	8-Nov-02	1.9	SC627	SC713
QHYB0336	Harare	Zim	X. Mhike	LN	13-Dec-02	2.0	R215	R200
EPOP0336	Çabinda	Ang	F. Sito	LpH	13-Dec-02	0.8	SRSY (S2BULK)-SR#	MANZALA
ILPOP0329	Cabinda	Ang	F. Sito	LpH	16-Dec-02	0.5	MATUBA	MANZALA
EPOP0352	Lunyangwa	Mal	W. Kaunda	LpH	18-Dec-02	0.6	CHITIBU	OPV GLS
ILPOP0347	Lunyangwa	Mal	W. Kaunda	LpH	18-Dec-02	0.2	MASIKA F1	MCHOTSANJALA
EIHYB0347	Lunyangwa	Mal	W. Kaunda	LpH	19-Dec-02	0.5	MH18	MH16
ILHYB0339	Lunyangwa	Mal	W. Kaunda	LpH	19-Dec-02	1.1	SC627	MH18
ILPOP038	Misamfu	Zam	W. Kaunda	LpH	13-Dec-02	1.5	POP 10	POP 25
EIHYB0340	Misamfu	Zam	W. Kaunda	LpH	16-Dec-02	1.6	GV408	GV470
ILHYB035	Misamfu	Zam	W. Kaunda	LpH	16-Dec-02	2.4	MM502	MRI634
QHYB0339	Misamfu Kasama	Zam	W. Kaunda	LpH	13-Dec-02	1.3	GV703	GV704
EPOP0344	Marondera	Zim	D. Dhliwayo	LpH	18-Nov-02	0.6		
EPOP0367	Marondera	Zim	D. Dhliwayo	LpH	18-Nov-02	1.3		
EPOP0369	Marondera	Zim	D. Dhliwayo	LpH	18-Nov-02	0.8		
ILPOP0340	Marondera	Zim	D. Dhliwayo	LpH	18-Nov-02	0.6		
ILPOP0353	Marondera	Zim	D. Dhliwayo	LpH	18-Nov-02	1.2		
ILPOP0355	Marondera	Zim	D. Dhliwayo	LpH	18-Nov-02	0.6		
EIHYB0333	Marondera	Zim	D. Dhliwayo	LpH	18-Nov-02	0.7		
EIHYB0356	Marondera	Zim	D. Dhliwayo	LpH	18-Nov-02	1.3		
ILHYB0332	Marondera	Zim	D. Dhliwayo	LpH	18-Nov-02	0.9		
ILHYB0344	Marondera	Zim	D. Dhliwayo	LpH	18-Nov-02	1.3		
ILHYB0345	Marondera	Zim	D. Dhliwayo	LpH	18-Nov-02	1.4		
ILHYB0347	Marondera	Zim	D. Dhliwayo	LpH	18-Nov-02	0.5		
EPOP0374	Bako	Eth	D. Wegary	MAEA	11-Jun-03	5.2	GIBE UMP1	KULENI
ILPOP0368	Bako	Eth	D. Wegary	MAEA	6-Dec-03	6.6	KULENI	GIBE-COMPE1
EIHYB0359	Bako	Eth	D. Wegary	MAEA	11-Jun-03	6.3	BH540	BH541
ILHYB0356	Bako	Eth	D. Wegary	MAEA	13-Jun-03	8.4	BH660	BH541
QHYB0343	Bako	Eth	D. Wegary	MAEA	12-Jun-03	4.3	BHQP542	BH541
EPOP0396	Meikasa	Eth	G. Soboksa	MAEA	23-Jun-03	7.7		
EIHYB0383	Meikasa	Eth	G. Soboksa	MAEA	4-Jul-03	8.3		
QHYB0359	Meikasa	Eth	G. Soboksa	MAEA	21-Jun-03	7.7	BHQP.542	BH-540
QHYB0350	Alupe	Ken	M. Wambulwa	MAEA	14-Apr-03	4.3	KSTP94	H623
EPOP0392	Bungoma	Ken	S. Esmail	MAEA	9-May-03	4.8	WS202 (flint)	Ws103 (cash4)
EIHYB0382	Bungoma	Ken	S. Esmail	MAEA	9-May-03	5.6	WH403	WH301
QHYB0346	Embu	Ken	F. Manyara	MAEA	24-Apr-03	8.2	H513	Emco

Trial	Location	Country	Collaborator	Env	PlantingDate	GY(t/ha)	LocalCheck1	LocalCheck2
QHYB0344	Kakamega	Ken	O. Odongo	MAEA	28-Apr-03	4.6	H614	H513
QHYB0348	Kakamega	Ken	M. Odongo	MAEA	28-Apr-03	6.0	H614	H513
ILPOP0381	Kitale	Ken	S. Esmail	MAEA	5-Jan-03	5.4	P3DF	WS08
ILHYB0365	Kitale	Ken	S. Esmail	MAEA	2-May-03	7.1	WH505	NH403
QHYB0351	Kitale	Ken	S. Esmail	MAEA	3-May-03	4.6	QP 503	NORMAL WH403
ILPOP0380	Bulegeni	Uga	J. Imanywoha	MAEA	17-Apr-03	7.6	LONGE 2H	H614D
QHYB0358	Bulegeni	Uga	J. Imanywoha	MAEA	17-Apr-03	8.5	LONGE 2H	H614D
ILHYB0363	Bulegeni	Uga	J. Imanywoha	MAEA	17-Apr-03	10.4	LONGE 2A	A61DA
EPOP0380	Namulonge	Uga	J. Imanywoha	MAEA	17-Apr-03	3.4	LONGE 1	LONGE4
ILPOP0379	Namulonge	Uga	J. Imanywoha	MAEA	17-Apr-03	4.1	LONGE 1	LONGE 4
EIHYB0368	Namulonge	Uga	J. Imanywoha	MAEA	17-Apr-03	2.8	PI/F810	N9/AC/IN8
ILHYB0360	Namulonge	Uga	J. Imanywoha	MAEA	17-Apr-03	3.7	N10/N1/N21	NH6/N7
QHYB0356	Namulonge	Uga	J. Imanywoha	MAEA	17-Apr-03	4.5	M10/M1/M21	SAME
EPOP0383	Serere	Uga	J. Imanyudza	MAEA	18-Apr-03	4.3	LONGE 1	LONGE4
EIHYB0369	Serere	Uga	J. Imanywoha	MAEA	18-Apr-03	5.5	LONGE 2H	PAN67
QHYB0357	Serere	Uga	J. Imanywoha	MAEA	18-Apr-03	5.8	LONGE 2H	PAN 67
EPOP0337	Harare	Zim	CIMMYT	MSV	12-Nov-02	7.8	00SADVE F2	00SADVI F2
ILPOP0333	Harare	Zim	CIMMYT	MSV	11-Dec-02	8.3	DRS-#	NUJINE-#
EIHYB0326	Harare	Zim	CIMMYT	MSV	12-Nov-02	9.2	SC405	SC515
ILHYB0325	Harare	Zim	CIMMYT	MSV	12-Nov-02	9.5	SC627	SC709
QHYB0314	Harare	Zim	CIMMYT	MSV	12-Nov-02	7.4	SC627	SC713

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EPOPO3: Results of evaluation of early maturing OPVs from Angola, Botswana, CIMMYT, Malawi and Tanzania across 65 sites in eastern and southern Africa, 2002/03.

Table 3C

Entry Name	Pedigree	Origin	Comments	Across			Mid Altitudes Eastern Africa - Grain Yields			Bungoma Ken			Malikwa Eth				
				Rel GY	Rank	Across	Bako Eth	Hamulongo Uga	Serege Uga	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha
				%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	
Entries with anthesis date between 58 - 62 days																	
4 ZM305	ZM305=ZEWA/B F2	CIMMYT	Non-QPM	100	16	8	5.6	13	4.8	20	4.1	7	5.5	3	4.6	14	7.7
20 ZM301 C1 (Botswana)	ZM301 C1 (Botswana)#	BOTSWANA	Non-QPM	90	20	6	5.0	22	4.6	23	3.4	15	4.1	20	4.0	24	7.3
26 EPOPOP104	EPOPOP104#	TANZANIA	Non-QPM	78	24	7	4.7	22	3.6	30	2.7	26	3.8	23	5.1	10	6.4
16 EECOMPOSITE	EECOMPOSITE	CIMMYT-KEN	Non-QPM	63	27	5	5.8	29	3.7	29	1.5	30	1.3	30	3.5	29	5.9
Maturity group average																	
83				83	22	6	4.7	22	4.2	26	2.9	20	3.7	19	4.3	19	6.9
Entries with anthesis date between 64 - 68 days																	
5 Syn01E2	Syn01E2 F2	CIMMYT	Non-QPM	116	8	6	6.3	8	5.5	14	3.6	11	4.6	9	6.3	3	8.8
11 ZM423	99SADVE F2	CIMMYT	Non-QPM	115	9	7	6.1	11	5.8	11	3.9	9	3.8	22	6.3	2	8.5
13 01SADVE	01SADVE F2	CIMMYT	Non-QPM	112	10	6	6.4	7	5.8	9	4.0	8	4.8	7	5.8	7	8.9
23 LTCOMP01 MALAWI	LTCOMP01 MALAWI#	MALAWI	Non-QPM	109	11	6	5.6	15	5.6	13	4.2	3	4.4	13	4.8	13	7.6
10 ZM521-FLINT	ZM521-FLINT#	CIMMYT	Non-QPM	104	14	6	6.2	8	5.9	7	4.1	5	4.7	8	6.3	1	7.7
3 VV023	VV023	CIMMYT	Non-QPM	105	15	7	5.4	16	5.0	18	3.2	17	4.3	17	4.4	17	7.8
18 ZM303	ZM303	CIMMYT	Non-QPM	101	15	7	5.1	21	4.8	21	3.0	21	3.6	24	3.6	28	8.3
9 ZM421-FLINT	ZM421-FLINT#	CIMMYT	Non-QPM	99	16	6	5.3	18	5.8	10	3.4	13	3.2	26	4.1	22	8.1
2 VV022	VV022	CIMMYT	Non-QPM	98	17	7	4.9	22	4.2	25	2.6	28	4.0	21	4.0	23	7.6
30 LOCAL CHECK 2	LOCAL CHECK 2	Various	Non-QPM	96	17	9	5.0	17	6.1	6	3.4	12	4.3	16	4.5	16	5.2
6 Syn01E3	Syn01E3 F2	CIMMYT	Non-QPM	96	17	7	5.7	13	4.1	27	2.9	22	4.5	11	6.2	4	8.1
22 KAFULA (Malawi)	KAFULA (Malawi)#	MALAWI	Non-QPM	97	17	7	5.8	12	5.5	15	3.7	10	5.4	4	4.5	15	7.8
7 ZM421	ZM421 F2	CIMMYT	Non-QPM	93	19	9	5.0	22	4.9	19	3.1	18	3.4	26	3.9	26	7.6
29 LOCAL CHECK 1	LOCAL CHECK 1	Various	Non-QPM	89	20	10	5.3	18	7.1	1	4.1	6	4.4	15	3.9	25	5.8
25 MATINDIRI C1 MALAWI	MATINDIRI C1 MALAWI	MALAWI	Non-QPM	89	20	6	4.6	23	4.3	24	2.8	25	3.4	27	4.3	18	6.7
28 MATUBA	MATUBA	REGIONAL CHECK	Non-QPM	91	21	8	4.8	21	4.1	26	2.8	23	4.4	14	4.2	20	6.0
17 PL15QC7-SRC1	PL15QC7-SRC1 F2 (QPM)	CIMMYT	QPM	89	21	6	4.6	26	3.9	28	3.1	19	3.5	25	3.7	27	7.2
Maturity group average																	
100				100	16	7	5.4	16	5.2	16	3.4	15	4.2	17	4.8	16	7.5
Entries with anthesis date > 68 days																	
12 ZM523	99SADVI F2	CIMMYT	Non-QPM	124	6	6	5.9	4	6.3	4	4.2	4	6.1	1	5.8	8	9.4
15 02SADVE	02SADVE F2	CIMMYT	Non-QPM	116	7	5	6.4	9	6.4	3	5.3	1	4.1	19	5.1	11	9.9
14 01SADVI	01SADVI F2	CIMMYT	Non-QPM	118	8	6	6.2	9	5.9	8	4.5	2	4.5	12	5.6	9	8.7
24 MACOMP01 MALAWI	MACOMP01 MALAWI#	MALAWI	Non-QPM	110	12	7	6.3	7	6.5	2	3.4	14	4.5	10	6.0	5	8.4
8 ZM521	ZM521 F2	CIMMYT	Non-QPM	109	12	7	6.2	9	5.0	17	2.6	27	4.9	6	5.9	6	8.8
27 KEP	KEP	REGIONAL CHECK	Non-QPM	106	13	9	6.3	7	6.1	5	2.4	29	5.3	5	5.0	12	8.7
1 VV021	VV021	CIMMYT	Non-QPM	104	15	7	5.5	16	4.6	22	2.8	24	5.9	2	4.1	21	7.4
19 AMEDIN-1	AMEDIN-1#	ANGOLA	Non-QPM	98	17	8	5.3	18	5.7	12	3.3	16	4.2	18	4.2	19	7.1
21 KEP C1 BOTSWANA	KEP C1 BOTSWANA	BOTSWANA	Non-QPM	86	21	8	4.3	26	5.1	16	3.0	20	2.7	29	3.0	30	6.4
Maturity group average																	
108				108	12	7	5.9	11	5.7	10	3.5	15	4.7	11	5.0	13	8.3
99				99	16	7	5.4	16	5.2	3	3.4	4	4.3	4	4.8	3	7.7
LSD (p<0.05)																	
1.1				0.6			0.6		1.1		1.6		1.6		1.2		1.2
6				6			6		6		6		6		6		6
Min				63	6	5	3.6	4	3.6	4	1.5	3	1.3	3	3.0	3	5.2
Max				124	27	10	6.9	29	7.1	29	5.3	19	6.1	29	6.3	30	9.9
NumSignificantSites																	
43				43	43	43	4	4	1	1	0	4	1	1	1	1	1

EPOPO3: Results of evaluation of early maturing OPVs from Angola, Botswana, CIMMYT, Malawi and Tanzania across 65 sites in eastern and southern Africa, 2002/03.

Entry Name	Across		Mid Alt Humid Warm (Zone A) - Grain Yields																		
	Rel GY	Rank	Across	Greytown RSA	Mt Makuluu Zam	Golden Valley Zam	Zamested Farm Zam	Chilumba Zam	Uthiriguru Tan	ART Farm Zim	Manondara Zim										
%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank							
Entries with anthesis date between 55 - 62 days																					
4 ZM305	100	16	8	4.2	16	5.1	12	7.5	12	6.9	24	3.3	24	1.5	27	1.8	23	7.0	19	0.9	16
20 ZM301 C1 (Botswana)	90	20	6	3.8	21	5.0	14	6.0	26	7.1	19	2.4	28	2.0	14	1.7	27	6.6	23	1.0	10
26 EPOPOP104	78	24	7	3.1	26	4.0	25	5.3	28	5.4	29	2.1	29	2.1	9	1.2	29	5.5	29	0.6	30
16 EECOMPOSITE	63	27	5	2.6	28	4.3	23	4.3	30	5.2	30	0.7	30	1.4	29	0.9	30	4.8	30	0.8	19
Maturity group average	83	22	6	3.4	23	4.6	19	5.8	24	6.1	26	2.1	28	1.7	20	1.4	27	6.0	25	0.8	19
Entries with anthesis date between 64 - 68 days																					
5 Syn01E2	116	8	6	4.8	10	5.2	11	7.4	16	9.0	3	5.1	2	2.8	1	1.9	17	8.1	7	0.9	13
11 ZM423	115	9	7	5.0	6	5.7	8	8.7	5	8.5	6	3.6	14	2.3	3	2.6	5	8.7	3	0.6	26
13 01SADVE	112	10	6	4.8	11	4.9	17	8.1	7	9.3	2	4.2	10	2.2	5	1.9	16	8.8	2	0.7	22
23 LTCOMP01 MALAWI	109	11	6	4.5	13	4.9	16	8.1	8	8.1	10	3.9	12	2.2	7	2.2	10	7.3	17	0.8	20
10 ZM521-FLINT	104	14	6	4.3	15	5.4	9	7.7	10	7.0	22	3.6	15	1.9	19	2.3	8	7.5	13	0.9	14
3 VV023	105	15	7	4.5	12	5.8	7	6.3	24	7.8	13	4.2	9	1.8	21	2.2	11	7.4	14	1.0	11
18 ZM303	101	15	7	4.2	16	4.4	21	7.6	11	7.0	23	3.4	22	2.3	4	2.3	7	7.4	15	1.0	7
9 ZM421-FLINT	99	16	6	4.2	17	4.7	18	7.3	17	7.7	14	3.3	23	1.7	24	2.2	12	6.8	21	1.1	6
2 VV022	98	17	7	4.4	16	5.0	15	7.2	19	8.1	9	4.2	8	1.9	17	1.8	24	7.7	10	1.0	8
30 LOCAL CHECK 2	96	17	9	4.4	16	7.6	2	7.5	14	6.2	27	3.5	19	1.5	26	2.2	13	6.5	24	1.0	12
6 Syn01E3	96	17	7	4.1	20	4.4	22	7.4	15	7.3	17	3.2	25	1.9	16	2.1	14	7.3	18	1.4	2
22 KAFULA (Malawi)	97	17	7	4.0	20	3.7	29	7.3	18	7.4	15	4.3	7	2.1	10	1.9	20	6.3	27	1.2	4
7 ZM421	93	19	9	3.8	22	3.8	28	6.0	27	7.0	21	3.2	26	1.7	23	1.8	25	7.0	20	0.6	28
29 LOCAL CHECK 1	89	20	10	4.1	18	7.8	1	4.9	29	5.9	28	2.9	27	1.9	18	1.8	21	8.0	8	0.8	18
25 MATINDIRI C1 MALAWI	89	20	6	3.9	23	4.7	19	6.7	22	6.6	20	3.6	16	1.4	28	1.8	22	6.0	28	0.6	29
28 MATUBA	91	21	8	3.8	23	4.3	24	7.1	20	6.6	25	3.6	17	2.0	13	1.7	26	6.3	26	0.7	25
17 PL15QC7-SRC1	89	21	6	3.8	22	4.0	26	6.1	25	7.2	18	3.4	21	2.2	6	1.9	18	6.3	25	0.7	24
Maturity group average	100	16	7	4.3	16	5.1	16	7.1	17	7.5	16	3.7	16	2.0	14	2.0	16	7.3	16	0.9	16
Entries with anthesis date > 68 days																					
12 ZM523	124	6	6	5.6	4	6.3	4	9.9	3	9.7	1	5.2	1	2.6	2	3.1	1	9.0	1	1.2	3
15 02SADVE	116	7	5	5.5	4	6.3	3	10.1	2	8.7	4	4.9	4	2.1	8	2.9	2	8.7	4	1.1	5
14 01SADVI	118	8	6	5.1	7	5.4	10	10.2	1	8.2	8	5.0	3	2.0	12	2.3	6	8.4	6	1.5	1
24 MACOMP01 MALAWI	110	12	7	4.8	9	6.1	6	8.7	4	7.3	16	4.9	5	2.0	11	2.6	4	7.5	12	0.8	21
8 ZM521	109	12	7	4.7	12	5.1	13	7.5	13	7.9	12	4.5	6	1.9	20	2.8	3	8.4	5	0.9	15
27 KEP	106	13	9	4.8	9	6.2	5	8.1	6	8.7	5	3.8	13	1.3	30	1.9	15	8.0	9	0.7	23
1 VV021	104	15	7	4.5	13	4.5	20	7.0	21	8.4	7	3.5	18	1.9	15	2.2	9	7.6	11	0.6	27
19 AMEDIN-1	98	17	8	4.3	16	3.6	30	7.8	9	7.9	11	4.1	11	1.8	22	1.9	19	7.3	16	1.0	9
21 KEP C1 BOTSWANA	86	21	8	3.7	23	3.8	27	6.4	23	6.3	26	3.4	20	1.6	25	1.6	28	6.7	22	0.8	17
Maturity group average	108	12	7	4.8	11	5.2	13	8.4	9	8.1	10	4.4	9	1.9	16	2.4	10	8.0	10	1.0	13
Mean	89	16	7	4.3	16	5.1	16	7.3	17	7.5	16	3.7	16	2.0	14	2.0	16	7.3	16	0.9	16
LSB (0.05)				0.4		0.9		1.4		1.4		1.1		0.9		0.6		1.2		0.6	
P				***		***		***		***		***		ns		***		***		ns	
Min	63	6	5	2.6	4	3.6		4.3		5.2		0.7		1.3		0.9		4.8		0.5	
Max	124	27	10	5.6	28	7.8		10.2		9.7		5.2		2.8		3.1		9.0		1.5	
NumSignificantSites	43	43	43	8	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0

EPO03: Results of evaluation of early maturing OPVs from Angola, Botswana, CIMMYT, Malawi and Tanzania across 65 sites in eastern and southern Africa, 2002/03.

Entry Name	Across			Mid Alt Humid Warm (zone A) - Grain Yields			Mid Alt Humid Hot (zone B) - Grain Yields			Pelotsheltha Bot											
	Rel.GY	Rank	%	u/ha	Rank	u/ha	Rank	u/ha	Rank	u/ha	Rank	u/ha	Rank								
Entries with anthesis date between 58 - 62 days																					
4 ZM305	100	16	8	0.6	12	1.9	13	1.2	4	0.8	17	3.1	20	1.1	18	3.7	20	1.9	16	0.6	26
20 ZM301 C1 (Botswana)	90	20	6	0.6	17	1.9	16	1.0	11	0.6	35	3.0	21	1.1	14	3.4	23	1.6	24	1.3	3
26 EEP0104	78	24	7	0.4	29	1.3	28	1.2	8	1.0	8	2.6	26	1.0	28	3.5	24	1.7	23	1.1	4
16 EECOMPOSITE	63	27	5	0.3	30	2.1	10	0.8	23	0.3	29	2.3	27	1.0	26	2.2	27	1.9	19	0.8	16
Maturity group average	83	22	6	0.5	22	1.8	17	1.0	12	0.7	20	2.8	23	1.1	22	3.4	24	1.8	21	1.0	12
Entries with anthesis date between 64 - 68 days																					
5 Syn01E2	116	8	6	0.7	8	2.3	4	0.9	12	1.0	9	4.0	8	1.1	16	4.8	3	2.8	3	0.7	22
11 ZM423	115	9	7	0.7	6	1.4	27	1.4	3	0.8	18	3.8	8	1.2	9	4.7	5	1.9	17	0.9	12
13 01SADVE	112	10	6	0.7	9	2.1	2	0.7	21	0.8	19	3.6	11	1.2	8	4.5	9	2.2	9	0.6	24
23 LTCOMP01 MALAWI	109	11	6	0.6	14	2.3	6	0.9	13	0.5	27	3.1	14	1.1	13	4.0	16	2.0	14	0.7	21
10 ZM521-FLINT	104	14	6	0.7	10	1.9	12	0.4	30	1.1	3	3.5	13	1.3	5	4.2	13	1.9	20	0.9	13
3 VV023	105	15	7	0.6	20	1.9	18	2.0	1	1.1	6	3.4	15	1.1	17	4.5	8	2.3	8	1.3	2
18 ZM303	101	15	7	0.6	17	2.2	7	1.1	9	0.7	21	3.4	15	1.2	6	3.8	18	2.1	12	1.1	5
9 ZM421-FLINT	99	16	6	0.7	7	1.0	30	0.7	25	0.8	16	3.3	16	1.1	20	3.5	10	2.2	11	0.8	15
2 VV022	98	17	7	0.6	21	1.6	25	0.8	22	0.9	11	3.3	17	1.1	19	4.3	12	2.2	10	1.0	7
30 LOCAL CHECK 2	96	17	9	0.6	11	2.0	11	0.9	16	0.9	15	3.6	17	1.5	2	2.3	29	0.9	30	0.5	30
6 Syn01E3	96	17	7	0.5	27	1.8	21	0.8	21	0.3	30	3.4	17	1.3	10	4.0	17	1.5	26	0.6	29
22 KAFULA (Malawi)	97	17	7	0.6	23	1.7	23	0.9	19	0.6	24	3.1	17	1.1	15	4.3	11	1.9	18	1.4	1
7 ZM421	93	19	9	0.6	22	1.7	24	1.2	7	0.4	28	2.8	21	1.2	11	2.2	30	1.2	29	0.6	25
29 LOCAL CHECK 1	89	20	10	0.9	1	2.3	5	0.5	29	0.5	26	3.8	19	1.0	27	3.0	26	1.6	25	0.7	23
25 MATINDIRI C1 MALAWI	89	20	6	0.4	28	1.2	29	0.7	26	0.9	14	3.2	18	1.1	21	4.2	14	2.1	13	1.0	6
28 MATUBA	91	21	8	0.6	15	1.7	22	0.7	27	1.2	2	3.1	22	0.9	20	3.8	19	1.4	28	0.6	27
17 PL15QC7-SRC1	89	21	6	0.5	26	1.9	14	0.8	20	0.7	22	2.6	23	1.0	25	2.6	23	1.4	27	0.6	28
Maturity group average	100	16	7	0.6	16	1.8	16	0.9	18	0.8	17	3.4	16	1.1	15	3.9	16	1.9	18	0.6	17
Entries with anthesis date > 68 days																					
12 ZM523	124	6	6	0.8	2	2.1	8	0.9	15	1.1	7	4.2	3	1.6	1	4.8	4	2.8	2	0.9	14
15 02SADVE	116	7	5	0.8	3	2.5	1	1.2	6	1.1	5	4.0	6	1.3	3	4.5	7	2.6	5	0.8	17
14 01SADVI	118	8	6	0.7	4	1.8	19	0.9	18	0.9	12	3.8	10	1.2	7	3.7	21	2.6	1	0.7	18
24 MACOMP01 MALAWI	110	12	7	0.7	5	1.4	26	0.9	18	1.1	4	3.7	12	1.0	24	4.9	2	1.8	21	0.9	11
8 ZM521	109	12	7	0.6	13	2.1	9	0.5	28	0.7	20	3.6	11	1.3	4	3.5	23	2.0	15	0.7	20
27 KEP	106	13	9	0.6	17	2.4	3	1.2	5	1.0	10	3.7	12	1.2	12	4.6	6	2.6	6	0.7	19
1 VV021	104	15	7	0.6	20	1.8	20	1.9	2	0.9	13	3.7	14	1.1	22	5.3	1	2.7	4	1.0	8
19 AMEDIN-1	98	17	8	0.5	25	1.9	17	1.0	10	0.7	23	3.5	15	1.0	29	4.0	15	1.7	22	0.9	10
21 KEP C1 BOTSWANA	86	21	8	0.5	24	1.9	15	0.9	14	1.2	1	3.4	18	1.1	23	3.6	22	2.3	7	0.9	9
Maturity group average	108	12	7	0.7	13	2.0	13	1.1	13	1.0	11	3.8	11	1.2	14	4.0	11	2.4	9	0.8	14
Mean	99	16	7	0.6	11	1.9	16	1.0	12	0.8	16	3.4	16	1.1	13	3.9	11	2.0	11	0.8	14
LSD (0.05)				0.1		0.8		0.6		0.7		0.4		0.3		1.2		0.9		0.5	
P				***		ns		**		ns		***		**		***		ns		ns	
Min	63	6	5	0.3	3	1.0	4	0.4	3	0.3	3	2.3	3	0.8	2	2.2	3	0.9	3	0.5	3
Max	124	27	10	0.9	30	2.5	25	2.0	29	1.2	30	4.2	27	1.8	30	5.3	30	2.8	28	1.4	30
NumSignificantSites	43	43	43	1	1	0	1	1	1	0	1	8	1	1	1	1	1	1	1	1	0

EPOPO3: Results of evaluation of early maturing OPVs from Angola, Botswana, CIMMYT, Malawi and Tanzania across 65 sites in eastern and southern Africa, 2002/03.

Entry Name	Across			Mid Alt Humid Hot (Zone B) - Grain Yields					Mid Alt Dry (Zone C) - Grain Yields						
	Rel GY	Rank	Avg	Uha	Rank	Uha	Rank	Uha	Rank	Uha	Rank	Uha	Rank	Uha	Rank
	%			Arusha Tan	Kadoma Zim	Kadoma Zim	Baka Mal	Makoholi Zim	Makoholi Zim	Umbeluzi Moz	Across	Masikora Zam			
Entries with anthesis date between 58 - 62 days															
4 ZM305	100	16	8	1.4	8	1.7	26	4.7	7	7.2	27	2.9	14	0.3	24
20 ZM301 C1 (Botswana)	90	20	6	1.8	3	1.7	24	2.7	30	8.7	21	2.2	25	0.4	18
26 EPOPOP104	78	24	7	1.4	7	1.4	30	3.9	22	6.0	28	2.3	23	0.3	21
16 EECOMPOSITE	63	27	5	1.0	23	1.5	29	3.1	28	5.4	30	1.7	29	0.2	29
Maturity group average	83	22	6	1.4	10	1.6	27	3.6	22	6.8	27	2.3	23	0.3	23
Entries with anthesis date between 64 - 68 days															
5 Syn01E2	116	8	6	1.1	19	2.2	7	4.8	6	10.7	6	3.5	4	0.5	9
11 ZM423	115	9	7	1.3	13	2.3	6	5.0	3	9.4	13	2.7	17	0.4	11
13 01SADVE	112	10	6	1.4	5	2.1	15	4.8	5	8.8	18	3.3	5	0.4	19
23 LTCOMP01 MALAWI	109	11	6	1.9	1	2.2	10	5.0	2	5.8	29	3.1	8	0.4	13
10 ZM521-FLINT	104	14	6	1.3	11	1.8	23	4.2	16	8.8	19	3.1	9	0.6	3
3 VV023	105	15	7	1.2	14	2.0	20	4.1	20	7.9	25	2.4	21	0.5	10
18 ZM303	101	15	7	1.8	2	2.1	13	4.6	8	9.4	12	3.1	11	0.3	25
9 ZM421-FLINT	99	16	6	1.3	10	2.2	9	3.9	23	8.7	20	2.1	28	0.4	12
2 VV022	98	17	7	1.2	15	2.0	16	3.5	27	9.3	14	3.0	12	0.4	14
30 LOCAL CHECK 2	96	17	9	1.1	21	2.2	11	3.8	24	12.9	2	3.3	6	0.1	30
6 Syn01E3	96	17	7	1.1	20	2.1	17	4.5	9	9.2	15	2.3	22	0.2	27
22 KAFULA (Malawi)	97	17	7	1.5	4	2.2	8	3.7	25	8.6	22	3.3	7	0.5	7
7 ZM421	93	19	9	0.5	30	2.1	14	4.4	11	7.8	26	2.1	27	0.3	22
29 LOCAL CHECK 1	89	20	10	0.9	26	2.0	19	5.0	1	13.5	1	2.2	26	0.2	28
25 MATINDIRI C1 MALAWI	89	20	6	1.2	16	2.1	15	4.3	13	8.2	23	2.5	20	0.3	26
28 MATUBA	91	21	8	1.4	6	1.6	28	4.2	17	9.1	17	1.4	30	0.5	8
17 PL15QC7-SRC1	89	21	6	1.2	18	1.7	25	3.1	28	8.0	24	3.0	13	0.4	15
Maturity group average	100	16	7	1.3	14	2.0	15	4.3	14	9.2	17	2.7	16	0.4	16
Entries with anthesis date > 66 days															
12 ZM523	124	6	6	1.0	25	2.3	3	4.3	12	11.3	3	3.9	2	0.7	1
15 02SADVE	116	7	5	1.1	22	2.3	4	4.8	4	11.0	4	3.8	3	0.4	17
14 01SADVI	118	8	6	1.4	9	2.1	12	4.1	19	10.9	5	4.0	1	0.6	4
24 MACOMP01 MALAWI	110	12	7	1.2	17	2.6	2	4.1	21	9.8	10	3.1	10	0.6	2
8 ZM521	109	12	7	0.8	26	2.8	1	4.2	14	10.6	7	2.6	19	0.5	6
27 KEP	106	13	9	0.6	29	1.9	22	4.5	10	9.1	16	2.9	15	0.3	23
1 VV021	104	15	7	1.3	12	1.7	27	4.1	18	9.7	11	2.5	18	0.4	16
19 AMEDIN-1	98	17	8	0.8	27	2.3	5	4.2	16	10.2	8	2.3	24	0.6	5
21 KEP C1 BOTSWANA	86	21	8	1.0	24	1.8	21	3.5	26	10.0	9	2.7	16	0.3	20
Maturity group average	108	12	7	1.0	21	2.2	11	4.2	16	10.3	8	3.1	12	0.5	10
Mean	99	16	7	1.2	13	2.0	11	4.2	16	9.2	16	2.8	16	0.4	16
LSD (0.05)				0.7	0.6	0.6	0.6	1.0	0.6	2.0	0.6	1.3	0.3	0.3	0.3
SD				+	+	+	+	+	+	+	+	+	+	+	+
Min	63	5	5	0.5	1.4	1.4	2.7	5.4	0.1	13.5	1.4	1.4	5	1.2	1.2
Max	124	27	10	1.9	2.8	5.0	4.0	13.5	0.7	2.8	3.0	2.8	3.0	1.9	1.9
NumSignificantSites	43	43	43	0	1	1	1	1	1	1	1	1	1	1	1

EPOPO3: Results of evaluation of early maturing OPVs from Angola, Botswana, CIMMYT, Malawi and Tanzania across 65 sites in eastern and southern Africa, 2002/03.

Entry Name	Across			Mild Alt Dry (Zone C) - Grain Yields			Lowland Trop Humid (Zone D) - Grain Yields												
	Rel CV	Rank	Sidev	Tumbi Tan	Mazoe Ang	Kilombo Ang	Chilala Mal	Sussundenga Moz	Across	Cabinap Ang	Ilonga Tan								
%	Avg	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank							
Entries with anthesis date between 50 - 62 days																			
4 ZM305	100	16	8	0.2	26	2.1	20	2.2	19	3.5	28	2.6	3	0.6	15	0.6	15	2.1	24
20 ZM301 C1 (Botswana)	90	20	6	0.2	20	1.5	29	2.1	21	3.7	26	1.8	26	0.5	23	0.5	23	2.5	15
26 EEP0P104	78	24	7	0.1	29	1.5	28	2.4	15	3.3	29	1.5	29	0.4	28	0.4	28	1.6	29
16 EECOMPOSITE	63	27	5	0.1	30	2.1	21	1.2	30	3.1	30	1.6	27	0.2	30	0.2	30	1.5	30
Maturity group average	83	22	6	0.1	26	1.8	25	2.0	21	3.4	28	1.9	21	0.4	24	0.4	24	1.9	25
Entries with anthesis date between 64 - 68 days																			
5 Syn01E2	116	8	6	0.2	22	2.4	13	2.5	12	5.8	5	2.9	2	0.9	5	0.9	5	2.6	10
11 ZM423	115	9	7	0.2	10	2.3	16	3.1	2	4.4	16	2.5	6	0.9	3	0.9	3	2.4	17
13 01SADVE	112	10	6	0.2	21	2.6	9	2.5	11	5.1	9	2.0	23	0.6	18	0.6	18	2.9	3
23 LTCOMIF01 MALAWI	109	11	6	0.2	9	2.8	6	2.6	8	5.0	12	2.3	7	0.7	10	0.7	10	2.1	22
10 ZM521-FLINT	104	14	6	0.2	16	2.3	15	2.6	6	4.6	15	2.2	11	0.6	14	0.6	14	2.0	27
3 VV023	105	15	7	0.2	19	2.5	12	2.1	22	5.0	11	2.3	8	0.9	4	0.9	4	2.5	8
18 ZM303	101	15	7	0.2	14	1.6	26	2.3	17	4.3	22	1.5	30	1.0	2	1.0	2	2.1	26
9 ZM421-FLINT	99	16	6	0.2	8	2.5	11	2.2	20	4.4	19	2.1	14	0.5	20	0.5	20	2.2	21
2 VV022	98	17	7	0.2	27	2.2	18	2.6	7	3.5	27	2.1	15	0.5	24	0.5	24	2.6	9
30 LOCAL CHECK 2	96	17	9	0.3	7	2.3	17	2.1	23	5.9	4	2.0	22	0.2	29	0.2	29	2.3	18
6 Syn01E3	96	17	7	0.2	25	2.0	23	2.8	4	4.3	21	2.1	13	0.4	25	0.4	25	2.3	19
22 KAFULA (Malawi)	97	17	7	0.2	28	3.4	2	2.6	10	4.4	18	2.0	21	0.5	19	0.5	19	3.1	2
7 ZM421	93	19	9	0.3	3	2.6	10	2.4	14	4.2	23	2.0	20	0.6	17	0.6	17	2.3	20
29 LOCAL CHECK 1	89	20	10	0.3	6	1.6	27	1.7	28	4.6	14	2.2	10	0.6	11	0.6	11	2.1	25
25 MATINDIRI C1 MALAWI	89	20	6	0.2	24	3.2	3	2.8	5	5.0	13	1.9	25	0.7	8	0.7	8	2.6	11
28 MATUBA	91	21	8	0.2	23	2.8	5	2.0	26	4.0	25	2.0	18	0.7	7	0.7	7	1.9	28
17 PL15QC7-SRC1	89	21	6	0.2	11	1.5	30	1.9	27	4.2	24	1.9	24	0.7	8	0.7	8	2.6	13
Maturity group average	100	16	7	0.2	16	2.4	14	2.4	14	4.6	16	2.1	16	0.7	13	0.7	13	2.4	16
Entries with anthesis date > 68 days																			
12 ZM523	124	6	6	0.2	13	2.7	8	3.2	1	6.0	2	2.9	1	0.6	16	0.6	16	2.6	7
15 02SADVE	116	7	5	0.3	4	2.0	25	2.6	9	5.2	8	2.1	12	0.7	9	0.7	9	2.5	14
14 01SADVI	118	8	6	0.2	12	3.1	4	3.1	3	5.6	7	2.5	5	0.5	22	0.5	22	2.7	5
24 MACOMP01 MALAWI	110	12	7	0.2	17	2.2	19	2.2	18	6.3	1	2.6	4	0.6	12	0.6	12	2.4	16
8 ZM521	109	12	7	0.3	5	2.0	24	2.5	13	4.4	20	2.0	17	0.6	13	0.6	13	3.3	1
27 KEP	106	13	9	0.3	2	2.8	7	2.1	24	4.4	17	2.0	19	0.4	26	0.4	26	2.7	6
1 VV021	104	15	7	0.3	1	2.4	14	2.4	16	5.1	10	2.3	9	0.5	21	0.5	21	2.6	12
19 AMEDIN-1	98	17	8	0.2	15	3.7	1	2.0	25	6.0	3	2.0	16	1.1	1	1.1	1	2.9	4
21 KEP C1 BOTSWANA	86	21	8	0.2	18	2.0	22	1.7	29	5.7	6	1.6	28	0.4	27	0.4	27	2.1	23
Maturity group average	108	12	7	0.3	10	2.5	14	2.4	15	5.4	8	2.2	12	0.6	16	0.6	16	2.6	10
Mean	99	16	7	0.2	24	2.4	23	2.3	4.7	2.1	0.6	16	2.4	0.6	16	0.6	16	2.4	10
LSD (0.05)				0.1	1.4	0.7	1.2	0.8	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9	0.9
P				***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
Min	63	6	5	0.1	1.5	1.2	3.1	1.5	0.2	1	0.2	1	0.2	0.2	1	0.2	1	1.5	1.5
Max	124	27	10	0.3	3.7	3.2	6.3	2.9	1.1	30	1.1	30	1.1	30	1.1	30	1.1	3.3	3.3
NumSignificantSites	43	43	43	1	0	1	1	0	1	1	1	0	0	1	1	1	1	0	0

EPOP03: Results of evaluation of early maturing OPVs from Angola, Botswana, CIMMYT, Malawi and Tanzania across 65 sites in eastern and southern Africa, 2002/03.

Entry Name	Lowland Trop Dry (Zone E - Grain Yields)										Msimputa Moz										
	Rel GY	Rank	Across	Nganga Zam	Gopdhope Bot	Subelo Bot	Arusha Tan	Mazozo Ang	Chiradzizi Zim	Chitlala Mal											
	%	Avg	Sidev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank								
Entries with anthesis date between 58 - 62 days																					
4 ZM305	100	16	8	2.1	11	4.4	18	2.9	20	0.6	17	2.3	3	1.6	18	2.5	2	1.5	4	3.3	20
20 ZM301 C1 (Botswana)	90	20	6	1.9	15	3.9	27	2.6	25	0.7	9	2.1	8	1.6	19	2.0	10	1.1	15	3.7	12
26 EEP0104	78	24	7	1.8	16	5.7	2	3.0	17	0.5	25	2.0	14	1.7	15	2.4	3	1.5	5	2.3	29
16 EECOMPOSITE	63	27	5	1.6	21	4.7	12	2.8	21	0.4	29	1.7	27	1.7	17	2.0	11	1.2	10	2.1	30
Maturity group average	83	22	6	1.8	16	4.7	15	2.8	21	0.6	20	2.0	13	1.7	17	2.2	7	1.3	9	2.6	23
Entries with anthesis date between 64 - 68 days																					
5 Syn01E2	116	8	6	2.2	8	4.2	24	3.4	9	0.7	11	2.1	7	3.0	1	1.8	18	1.5	3	4.5	2
11 ZM423	115	9	7	2.3	7	4.6	15	3.3	11	0.7	14	2.0	11	1.4	25	2.3	4	1.3	9	4.6	1
13 01SADVE	112	10	6	2.2	10	4.7	13	3.5	6	0.5	26	2.1	6	2.4	6	2.1	8	1.4	7	4.3	4
23 LTCOMP01 MALAWI	109	11	6	2.2	8	4.7	11	3.3	10	1.1	1	2.1	9	1.8	14	2.2	7	1.1	16	4.5	3
10 ZM521-FLINT	104	14	6	1.8	18	4.4	19	3.1	14	0.6	15	2.1	5	1.7	16	1.9	13	0.7	25	3.1	24
3 VV023	105	15	7	1.8	19	5.3	4	2.8	22	0.5	24	1.9	22	2.1	9	1.5	24	1.2	13	3.2	22
18 ZM303	101	15	7	2.2	9	5.0	8	3.2	12	1.0	4	2.0	18	2.1	11	2.1	9	1.0	18	4.1	6
9 ZM421-FLINT	99	16	6	2.1	11	3.8	29	3.2	13	0.7	13	2.0	13	2.6	3	2.2	6	0.9	19	4.0	9
2 VV022	98	17	7	2.0	14	6.2	1	3.8	4	0.8	6	1.8	25	1.6	20	1.7	21	0.9	21	4.0	8
30 LOCAL CHECK 2	96	17	9	1.9	16	4.5	16	3.0	16	0.5	23	2.1	10	2.5	4	1.5	26	1.6	2	3.2	21
6 Syn01E3	96	17	7	1.6	23	4.1	25	2.6	26	0.4	28	1.8	24	1.2	29	1.6	23	0.7	24	3.4	17
22 KAFULA (Malawi)	97	17	7	1.9	17	4.9	9	3.9	3	0.4	27	1.9	20	1.9	13	1.8	16	0.7	27	3.3	18
7 ZM421	93	19	9	1.7	19	4.6	14	2.1	30	0.7	8	2.2	4	1.5	21	1.5	25	1.1	14	3.1	23
25 LOCAL CHECK 1	89	20	10	1.6	22	4.8	10	2.9	19	0.6	19	1.9	19	0.6	30	1.8	15	0.3	30	3.3	19
29 MATINDIRI C1 MALAWI	89	20	6	1.7	22	4.3	21	2.9	18	0.3	30	1.6	29	1.5	23	1.3	28	0.9	20	3.7	11
28 MATUBA	91	21	8	1.6	21	4.3	22	2.5	27	1.0	3	1.6	28	1.3	26	1.7	19	1.0	17	2.9	27
17 PL15QC7-SRC1	89	21	6	1.7	20	5.2	5	3.1	15	0.7	10	2.0	15	1.3	27	1.6	22	0.5	29	2.9	26
Maturity group average	100	16	7	1.9	15	4.7	14	3.1	15	0.7	15	1.9	16	1.8	16	1.8	17	1.0	17	3.7	14
Entries with anthesis date > 68 days																					
12 ZM523	124	6	6	2.3	7	4.2	23	3.9	2	0.6	18	2.4	1	1.5	24	2.6	1	1.2	11	4.1	5
15 02SADVE	116	7	5	2.1	10	3.9	26	3.5	7	0.5	21	1.9	23	2.2	8	2.3	5	1.4	6	3.5	15
14 01SADVI	118	8	6	2.0	12	3.9	28	3.5	8	0.8	5	2.3	2	2.3	7	1.8	17	1.7	1	2.9	25
24 MACOMP01 MALAWI	110	12	7	1.9	17	5.2	6	3.7	5	0.5	22	1.7	26	1.2	28	2.0	12	0.8	22	2.8	28
8 ZM521	109	12	7	2.0	13	4.5	17	2.7	24	1.1	2	2.0	17	2.7	2	1.7	20	1.3	8	3.8	10
27 KEP	106	13	9	2.0	18	4.3	20	4.3	1	0.6	20	2.0	16	2.4	5	1.4	27	0.6	28	4.0	7
1 VV021	104	15	7	1.7	17	3.1	30	2.1	29	0.8	7	2.0	12	2.0	12	1.8	14	1.2	12	3.4	16
19 AMEDIN-1	98	17	8	1.6	23	5.0	7	2.7	23	0.6	16	1.9	21	2.1	10	1.2	29	0.7	26	3.6	14
21 KEP C1 BOTSWANA	86	21	8	1.6	22	5.6	3	2.3	28	0.7	12	1.5	30	1.5	22	1.1	30	0.8	23	3.6	13
Maturity group average	108	12	7	1.9	16	4.4	18	3.2	14	0.7	14	1.9	16	2.0	13	1.8	17	1.1	15	3.5	15
Mean	99	16	7	1.9	16	4.6	18	3.1	14	0.7	14	2.0	16	1.8	13	1.8	17	1.1	15	3.5	15
LSD (0.05)				0.3		2.2		0.7		0.3		0.6		1.5		0.5		0.6		1.0	
P						ns		***				ns		ns		***		**		**	
Min	63	6	5	1.6	7	3.1	3	2.1	3	0.3	3	1.5	3	0.6	3	1.1	3	0.3	3	2.1	3
Max	124	31	10	2.3	23	6.2	30	4.3	30	1.1	30	2.5	30	3.0	30	2.6	30	1.7	30	4.6	30
NumSignificantSites	43	43	43	6	0	0	0	1	1	1	0	0	0	0	0	1	1	1	1	1	1

EPOPO3: Results of evaluation of early maturing OPVs from Angola, Botswana, CIMMYT, Malawi and Tanzania across 65 sites in eastern and southern Africa, 2002/03.

Entry Name	Across			Lowland Trop Dry (Zone E) - Grain Yields			Highlands (Zone F) - Grain Yields			N Stress - Grain Yields												
	Rel GY	Rank	Avg	Chokwe Moz	Mpumalanga RSA	Save-Vally Zim	Across	Humpata Ang	Myakowoha Les	Mahobong Les	u/ha	Rank	u/ha	Rank	u/ha	Rank						
Entries with anthesis date between 58 - 62 days																						
4_ZM305	100	16	8	4.5	21	0.8	4	1.6	1	5.4	21	5.4	21	0.8	8	2.5	25	2.1	16	2.5	16	
20_ZM301 C1 (Botswana)	90	20	6	4.6	20	0.7	6	1.1	20	5.1	24	5.1	24	0.8	6	1.5	29	1.8	23	1.9	28	
26_EEPOP104	78	24	7	3.7	27	0.4	27	1.3	17	4.1	28	4.1	28	0.8	9	3.0	13	1.6	25	2.2	23	
16_EECOMPPOSITE	63	27	5	3.2	29	0.3	30	1.0	24	3.6	29	3.6	29	0.5	20	3.1	11	1.3	28	2.1	25	
Maturity group average	83	22	6	4.0	24	0.5	17	1.3	16	4.5	26	4.5	26	0.7	11	2.5	20	1.7	23	2.2	23	
Entries with anthesis date between 64 - 68 days																						
5_Syn01E2	116	8	6	5.9	1	0.6	13	1.6	3	6.2	9	6.2	9			3.3	10	2.7	5	2.8	10	
11_ZM423	115	9	7	5.3	7	0.8	3	1.5	4	6.8	4	6.8	4	1.1	1	2.6	21	2.3	9	2.9	8	
13_01SADVE	112	10	6	4.1	26	0.5	19	1.4	11	6.3	8	6.3	8	0.6	17	3.1	12	2.6	7	3.2	3	
23_LTCOMP01 MALAWI	109	11	6	5.7	3	0.9	1	1.4	12	5.8	11	5.8	11	0.9	4	2.6	20	2.6	6	3.2	2	
10_ZM521-FLINT	104	14	6	5.6	4	0.7	7	1.2	19	6.6	7	6.6	7	0.6	16	2.7	19	2.2	14	2.2	22	
3_VV023	105	15	7	4.7	16	0.6	18	1.4	10	5.8	12	5.8	12	0.4	27	2.6	22	2.2	13	2.2	24	
18_ZM303	101	15	7	4.3	25	0.7	8	1.6	2	5.8	10	5.8	10	0.4	28	2.8	16	2.0	18	2.7	12	
9_ZM421-FLINT	99	16	6	4.8	13	0.6	10	1.5	6	5.4	19	5.4	19	0.7	11	2.5	26	2.1	17	2.5	18	
2_VV022	98	17	7	5.2	9	0.5	24	1.1	22	5.7	15	5.7	15	0.9	5	3.7	4	2.1	16	2.6	13	
30_LOCAL CHECK 2	96	17	9	4.4	23	0.5	23	1.4	9	5.2	22	5.2	22	1.0	2			1.8	23	2.5	17	
6_Syn01E3	96	17	7	4.6	20	0.6	14	1.1	21	5.7	14	5.7	14	0.5	22	3.6	5	2.2	13	2.8	9	
22_KAFULA (Malawi)	97	17	7	4.5	22	0.6	15	1.4	8	5.4	20	5.4	20	0.6	19	2.5	23	2.0	19	2.3	21	
7_ZM421	93	19	9	3.3	28	0.5	20	1.4	13	3.5	30	3.5	30	0.7	14	2.7	17	2.1	15	1.7	30	
29_LOCAL CHECK 1	89	20	10	5.8	2	0.6	9	0.9	27	5.1	23	5.1	23	0.6	18	2.5	24	1.7	22	1.7	29	
25_MATINDIRI C1 MALAWI	89	20	6	4.7	18	0.5	25	1.0	26	5.4	18	5.4	18	0.5	23	3.3	8	2.0	18	2.7	11	
28_MATUBA	91	21	8	4.4	24	0.5	22	0.7	30	4.5	27	4.5	27	0.3	29	2.1	27	2.1	17	2.4	19	
17_PL15QC7-SRC1	89	21	6	4.8	14	0.5	21	1.2	18	5.0	26	5.0	26	0.4	26	1.6	28	2.0	19	2.1	27	
Maturity group average	100	16	7	4.8	15	0.6	15	1.3	14	5.5	16	5.5	16	0.6	16	2.8	18	2.2	15	2.5	16	
Entries with anthesis date > 68 days																						
12_ZM523	124	6	6	5.4	5	0.6	12	1.4	7	7.0	1	7.0	1	0.5	24	2.9	14	2.4	12	3.1	6	
15_02SADVE	116	7	5	4.8	12	0.6	11	1.5	5	6.7	5	6.7	5	1.0	3	2.7	18	2.5	8	3.2	1	
14_01SADVI	118	8	6	4.8	12	0.8	2	1.3	15	6.7	6	6.7	6	0.8	7	2.8	15	2.7	6	3.1	5	
24_MACOMP01 MALAWI	110	12	7	5.4	6	0.7	5	1.3	14	6.9	3	6.9	3	0.6	15	3.6	6	2.4	11	3.2	4	
8_ZM521	109	12	7	4.8	15	0.4	28	1.3	16	5.7	13	5.7	13	0.5	21	3.3	9	2.4	10	2.3	20	
27_KEP	106	13	9	5.3	8	0.5	26	1.0	25	7.0	2	7.0	2	0.4	25	4.2	2	2.2	15	2.5	15	
1_VV021	104	15	7	4.7	17	0.6	17	1.0	23	5.5	17	5.5	17	0.8	10	3.4	7	2.1	17	2.9	7	
19_AMEDIN-1	98	17	8	5.0	10	0.6	16	0.8	29	5.0	25	5.0	25	0.7	13	3.7	3	1.9	20	2.1	26	
21_KEP C1 BOTSWANA	86	21	8	3.2	30	0.4	29	0.8	28	5.7	16	5.7	16	0.7	12	4.2	1	1.7	22	2.6	14	
Maturity group average	108	12	7	4.8	13	0.6	16	1.2	18	6.3	10	6.3	10	0.7	14	3.4	8	2.2	13	2.8	11	
Mean	99	16	7	4.7	6	0.6	12	1.2	16	5.6	16	5.6	16	0.7	16	2.9	10	2.1	18	2.5	10	
LSD (0.05)				1.4	0.3	0.3	0.5	0.5	1.0	1.0	0.6	1.0	0.6	0.6	0.3	1.5	0.9	0.3	0.3	0.9	0.9	0.9
CV				ns	+	+	**	**	***	***	ns	***	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Min	63	6	5	3.2	3	0.3	0.7	0.7	1	3.5	1	3.5	1	0.3	0.3	1.5	0.3	1.3	5	1.7	1.7	
Max	124	27	10	5.9	30	0.9	1.6	1.6	30	7.0	30	7.0	30	1.1	1.1	4.2	4.2	2.7	28	3.2	3.2	
NumSignifi cant Sites	43	43	43	0	0	0	1	1	1	1	1	1	1	0	0	0	0	7	7	7	7	

EPO03: Results of evaluation of early maturing OPVs from Angola, Botswana, CIMMYT, Malawi and Tanzania across 65 sites in eastern and southern Africa, 2002/03.

Table 3.J

Entry Name	Across		N Stress - Grain Yields															
	Rel GY	Rank	Arusha Tan	Mozozo Agr	Harare Zim	Chitche Mal	Friderheim	Valley RSA	Esolimo RSA	Harare Zim	Hlonga Tan							
%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank						
Entries with anthesis date between 58 - 62 days																		
4 ZMS05	100	6	2.2	9	3.0	16	2.3	5	1.1	28	2.8	14	0.5	7	2.5	11	1.3	26
20 ZM301 C1 (Botswana)	90	6	1.7	21	2.7	22	1.7	22	1.4	21	2.9	11	0.7	1	2.1	23	1.3	24
26 EEPOP104	78	7	2.2	8	1.7	29	1.3	27	0.9	30	2.1	27	0.5	6	1.5	27	1.1	29
16 EECOMPOSITE	63	5	1.5	25	1.3	30	0.8	30	1.1	26	2.2	24	0.3	23	1.2	29	1.0	30
Maturity group average	83	6	1.9	18	2.2	24	1.5	21	1.1	26	2.5	19	0.5	9	1.8	23	1.2	27
Entries with anthesis date between 64 - 68 days																		
5 Syn01E2	116	6	1.8	19	4.1	1	2.9	1	2.4	2	3.3	5	0.4	9	2.9	1	2.0	3
11 ZM423	115	7	2.4	6	2.2	28	2.3	6	2.3	4	3.8	2	0.6	3	2.6	6	1.9	6
13 01SADVE	112	6	2.7	4	3.2	12	2.2	7	2.3	3	2.3	23	0.6	2	2.5	10	1.9	8
23 LTCOMP01 MALAWI	109	11	2.7	3	3.8	2	2.1	11	2.1	5	3.9	1	0.6	5	2.3	14	2.0	4
10 ZM521-FLINT	104	6	2.1	12	3.3	10	2.1	13	1.7	14	2.5	20	0.2	24	2.6	9	1.5	21
3 VV023	105	7	1.6	23	3.4	8	2.2	9	1.8	9	2.8	15	0.2	25	2.7	3	1.8	14
18 ZM40A	101	7	1.5	24	3.0	17	2.0	16	1.4	19	2.8	16	0.2	28	2.2	19	1.4	22
9 ZM421-FLINT	99	16	1.2	28	2.7	23	1.9	18	1.7	13	2.2	25	0.3	20	2.6	5	1.8	16
2 VV022	98	7	1.4	27	3.6	4	1.6	25	1.1	27	2.2	26	0.3	22	2.4	12	2.3	1
30 LOCAL CHECK 2	96	17	1.4	26	2.4	27	1.8	21	1.3	22	3.4	5	0.3	17	2.1	22	1.3	25
6 Syn01E3	96	17	2.0	13	2.7	21	2.3	8	1.8	8	2.9	10	0.3	15	2.3	15	1.5	20
22 KAFULA (malawi)	97	17	2.3	7	2.8	20	1.9	17	1.5	18	3.0	8	0.3	18	1.9	25	1.3	27
7 ZM421	93	19	1.6	22	3.0	15	1.9	19	1.9	6	2.9	12	0.2	27	2.7	4	1.9	7
29 LOCAL CHECK 1	89	20	0.7	30	3.3	9	2.4	1	1.2	25	3.0	9	0.4	12	1.3	28	1.2	28
25 MATINDIRI C1 MALAWI	89	20	1.8	17	3.1	13	1.2	26	1.4	20	2.4	21	0.1	29	2.1	21	1.5	19
28 MATUBA	91	21	2.2	10	2.6	26	2.1	12	1.0	29	1.7	29	0.1	30	2.9	2	1.4	23
17 PL15QCx-srC1	89	21	1.9	16	2.9	18	1.9	20	1.3	23	1.5	30	0.4	10	2.2	18	1.8	12
Maturity group average	100	16	1.8	17	3.1	15	2.0	16	1.7	15	2.7	15	0.3	17	2.4	13	1.7	15
Entries with anthesis date > 68 days																		
12 ZM523	124	6	3.0	2	2.9	19	2.0	14	1.8	11	2.6	19	0.3	20	2.4	13	1.7	17
15 02SADVE	118	7	1.9	14	3.6	5	2.0	15	1.9	7	3.5	4	0.2	26	2.6	7	1.9	5
14 01SADVI	118	8	3.1	1	3.7	3	2.6	3	1.7	12	3.5	3	0.3	22	2.3	16	2.1	2
24 MACOMP01 MALAWI	110	12	1.9	15	3.2	11	2.1	10	2.6	1	2.3	22	0.5	8	2.0	24	1.8	11
8 ZMS21	109	12	2.1	11	3.4	7	2.7	2	1.6	15	3.1	7	0.6	4	2.6	8	1.8	10
27 KEP	106	13	2.4	5	3.5	6	1.6	24	1.3	10	2.7	18	0.3	16	1.9	26	1.6	16
1 VV021	104	15	1.8	18	2.6	25	1.7	23	1.6	16	2.8	13	0.4	13	2.2	17	1.8	15
19 AMEDIN-1	98	17	1.2	29	3.0	14	1.5	26	1.5	17	2.1	28	0.4	12	2.1	20	1.8	9
21 KEP C1 BOTSWANA	86	21	1.7	20	2.7	24	1.0	29	1.3	24	2.7	17	0.4	14	0.9	30	1.8	13
Maturity group average	108	12	2.1	13	3.2	13	1.9	16	1.8	13	2.8	15	0.4	15	2.1	18	1.8	11
Mean	99	16	1.9	13	3.0	13	1.9	16	1.8	13	2.7	15	0.4	15	2.2	18	1.8	11
LSD (0.05)			0.8		1.1		0.4		0.6		1.3		0.4		0.5		0.5	
p			***		*		***		***		NS		NS		***		***	
Min	63	6	0.7	29	1.3	27	0.8	29	0.9	24	1.5	28	0.1	29	0.9	30	1.0	29
Max	124	27	3.1	1	4.1	3	2.9	3	2.6	1	3.9	2	0.7	2	2.9	2	2.3	2
NumSignificantSites	43	43	3	3	3	3	3	3	3	3	0	3	0	3	3	3	3	3

EPOP03: Results of evaluation of early maturing OPVs from Angola, Botswana, CIMMYT, Malawi and Tanzania across 65 sites in eastern and southern Africa, 2002/03. **Table 3K**

Entry Name	N Stress																				Zone E																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	Across										MSV - Grain Yields																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	Rep/GY	Rank	Avg	Stdev	t/ha	Rank	Cabinda Ang	Rank	t/ha	Rank	Linyangwa Mal	Rank	t/ha	Rank	Marondara Zim	Rank	t/ha	Rank	Harare Zim	Rank		ASI	Plant	Ears/Plant	Leaf/Scenes	Leaf/Plant	ASI	Plant	Ears/Plant	Leaf/Scenes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Entries with anthesis date between 55 - 62 days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
4 ZM305	100	16	8	0.7	13	1.1	7	0.8	8	0.4	23	1.3	15	0.7	20	8.4	18	5.5	0.75	4.3	2.1	0.98	5.0	20 ZM301 C1 (Botswana)	90	20	6	0.6	20	0.7	21	0.8	9	0.2	29	1.9	3	0.5	24	8.7	16	6.5	0.86	4.2	4.1	0.95	5.2	26 EECOMPOSITE	78	24	7	0.4	25	0.7	19	0.3	29	0.3	26	1.0	27	0.4	26	2.1	29	5.7	0.82	5.0	1.0	0.95	5.6	16 EECOMPOSITE	63	27	5	0.2	29	0.5	28	0.1	30	0.1	30	0.9	28	0.4	29	2.0	30	5.4	0.71	5.2	1.5	0.95	5.5	Maturity group average	83	22	6	0.5	22	0.7	19	0.5	19	0.3	27	1.3	18	0.5	25	5.3	23	5.8	0.79	4.7	2.2	0.96	5.3	Entries with anthesis date between 64 - 68 days																												5 Syn01E2	116	8	6	0.7	15	1.0	8	0.5	20	0.6	16	2.0	1	0.7	22	10.5	4	3.5	0.88	3.8	2.4	1.14	4.8	11 ZM423	115	9	7	0.8	10	1.1	2	0.4	26	0.9	3	1.2	18	1.1	6	9.0	13	4.6	0.96	4.0	3.6	0.97	4.8	13 01SADVE	112	10	6	0.8	10	0.7	20	0.8	5	0.8	5	1.4	12	0.9	10	10.8	2	4.8	0.81	3.8	3.0	1.09	4.4	23 LTCOMP01 MALAWI	109	11	6	0.8	15	1.5	1	0.4	24	0.5	21	1.3	16	0.8	14	8.0	20	4.4	0.89	4.3	4.9	1.12	5.1	10 ZM521-FLINT	104	14	6	0.8	12	0.9	13	0.7	11	0.6	12	1.1	26	0.8	11	9.3	10	5.4	0.74	3.9	4.7	0.79	4.1	3 VV023	105	15	7	0.7	12	0.7	18	0.7	12	0.7	7	1.4	13	0.5	23	8.8	14	4.1	0.78	4.0	2.9	0.96	5.2	18 ZM303	101	15	7	0.7	17	1.1	4	0.4	25	0.5	22	1.2	22	0.8	19	8.3	19	6.3	0.81	4.5	4.7	0.95	5.3	9 ZM421-FLINT	99	16	6	0.6	18	0.9	14	0.4	27	0.6	14	1.2	21	0.8	12	9.5	8	5.7	0.76	4.2	3.1	0.94	4.2	2 VV022	98	17	7	0.7	16	0.9	15	0.6	14	0.5	20	1.3	14	0.8	16	8.7	15	5.4	0.75	3.8	4.3	0.94	4.5	30 LOCAL CHECK 2	96	17	9	0.7	14	0.4	30	0.9	2	0.7	9	0.8	30	0.8	18	10.0	5	6.9	0.69	4.3	3.4	1.00	5.6	6 Syn01E3	96	17	7	0.7	15	0.6	24	0.6	10	0.7	10	1.5	10	1.2	2	9.8	6	5.4	0.79	4.1	6.1	0.86	4.9	22 KAFULA (Malawi)	97	17	7	0.8	12	1.1	5	0.6	16	0.6	15	1.9	2	0.8	17	5.9	23	6.0	0.76	4.2	5.4	0.87	4.3	7 ZM421	93	19	9	0.5	20	0.6	25	0.3	28	0.7	8	1.2	19	0.5	25	9.5	9	4.0	0.84	3.7	3.7	0.91	4.3	29 LOCAL CHECK 1	89	20	10	0.5	22	0.8	16	0.5	23	0.3	27	1.1	25	1.2	5	5.9	24	5.1	0.77	3.7	5.3	0.82	4.4	25 MATINDIRI C1	89	20	6	0.7	14	1.1	6	0.6	16	0.6	18	1.2	23	0.6	13	2.2	28	4.9	0.88	4.3	3.3	1.07	4.2	25 MALAWI	91	21	8	0.6	18	0.6	23	0.9	4	0.2	28	1.6	6	0.4	27	7.9	21	4.6	1.10	4.5	3.9	1.00	5.3	28 MATUBA	89	21	6	0.6	16	1.1	3	0.5	21	0.3	25	1.5	9	0.4	28	6.9	22	4.9	0.86	4.3	3.9	0.86	5.0	17 PL15QC7-SRC1	89	21	6	0.6	16	1.1	3	0.5	21	0.3	25	1.5	9	0.4	28	6.9	22	4.9	0.86	4.3	3.9	0.86	5.0	Maturity group average	100	16	7	0.7	15	0.9	13	0.6	17	0.6	15	1.3	16	0.8	16	8.3	14	5.1	0.83	4.1	4.0	0.96	4.7	Entries with anthesis date > 68 days																												12 ZM523	124	6	6	0.9	11	0.8	17	0.6	15	1.4	1	1.8	4	1.0	8	10.5	3	4.8	0.80	4.0	3.7	1.00	4.5	15 02SADVE	116	7	5	0.7	13	0.6	22	0.6	13	0.8	4	1.5	7	1.0	7	9.6	7	4.6	0.69	3.7	3.5	0.88	4.1	14 01SADVI	118	8	6	0.9	7	0.9	12	0.8	6	0.9	2	1.5	11	1.2	3	10.9	1	4.6	0.76	3.6	3.1	0.99	5.0	24 MACOMP01 MALAWI	110	12	7	0.7	14	0.9	11	0.5	19	0.6	13	1.8	5	1.0	9	8.4	17	4.7	0.83	3.8	4.1	0.91	4.7	8 ZM521	109	12	7	0.7	17	1.0	9	0.5	22	0.5	19	1.2	20	0.3	30	9.0	12	4.5	0.97	3.9	3.1	0.95	4.8	27 KEP	106	13	9	0.8	16	0.5	29	1.5	1	0.6	17	1.5	8	0.8	16	5.7	25	5.7	0.76	3.9	5.9	0.90	4.0	1 VV021	104	15	7	0.6	18	0.5	27	0.6	17	0.6	11	1.1	24	0.7	21	9.3	11	4.7	0.74	3.6	3.4	0.86	4.8	19 AMEDIN-1	98	17	8	0.8	8	1.0	10	0.8	7	0.7	6	1.2	17	1.4	1	4.9	26	6.6	0.81	4.3	4.9	0.86	4.5	21 KEP C1 BOTSWANA	86	21	8	0.6	18	0.6	26	0.9	3	0.4	24	0.9	29	1.2	5	3.0	27	8.4	0.68	4.0	6.0	0.67	4.2	Maturity group average	108	12	7	0.8	13	0.7	18	0.8	11	0.7	11	1.4	14	0.9	11	7.9	14	5.4	0.78	3.9	4.2	0.89	4.5	Mean	99	16	7	0.7	16	0.8	16	0.6	16	0.6	15	1.3	16	0.8	16	8.3	14	5.3	0.81	4.1	3.8	0.94	4.8	LSD (0.05)	63	6	5	0.2	7	0.4	7	0.1	7	0.1	1.4	0.8	0.8	1.4	0.3	2.0	0.3	3.5	0.68	3.6	1.0	0.67	4.0	124	27	10	0.9	29	1.5	1.5	1.4	10.9	8.4	1.10	5.2	6.1	1.14	5.6	43	43	3	1	1	0	0	4	4	2	3	3	1	NumSignificantSites																											
Entries with anthesis date between 64 - 68 days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
5 Syn01E2	116	8	6	0.7	15	1.0	8	0.5	20	0.6	16	2.0	1	0.7	22	10.5	4	3.5	0.88	3.8	2.4	1.14	4.8	11 ZM423	115	9	7	0.8	10	1.1	2	0.4	26	0.9	3	1.2	18	1.1	6	9.0	13	4.6	0.96	4.0	3.6	0.97	4.8	13 01SADVE	112	10	6	0.8	10	0.7	20	0.8	5	0.8	5	1.4	12	0.9	10	10.8	2	4.8	0.81	3.8	3.0	1.09	4.4	23 LTCOMP01 MALAWI	109	11	6	0.8	15	1.5	1	0.4	24	0.5	21	1.3	16	0.8	14	8.0	20	4.4	0.89	4.3	4.9	1.12	5.1	10 ZM521-FLINT	104	14	6	0.8	12	0.9	13	0.7	11	0.6	12	1.1	26	0.8	11	9.3	10	5.4	0.74	3.9	4.7	0.79	4.1	3 VV023	105	15	7	0.7	12	0.7	18	0.7	12	0.7	7	1.4	13	0.5	23	8.8	14	4.1	0.78	4.0	2.9	0.96	5.2	18 ZM303	101	15	7	0.7	17	1.1	4	0.4	25	0.5	22	1.2	22	0.8	19	8.3	19	6.3	0.81	4.5	4.7	0.95	5.3	9 ZM421-FLINT	99	16	6	0.6	18	0.9	14	0.4	27	0.6	14	1.2	21	0.8	12	9.5	8	5.7	0.76	4.2	3.1	0.94	4.2	2 VV022	98	17	7	0.7	16	0.9	15	0.6	14	0.5	20	1.3	14	0.8	16	8.7	15	5.4	0.75	3.8	4.3	0.94	4.5	30 LOCAL CHECK 2	96	17	9	0.7	14	0.4	30	0.9	2	0.7	9	0.8	30	0.8	18	10.0	5	6.9	0.69	4.3	3.4	1.00	5.6	6 Syn01E3	96	17	7	0.7	15	0.6	24	0.6	10	0.7	10	1.5	10	1.2	2	9.8	6	5.4	0.79	4.1	6.1	0.86	4.9	22 KAFULA (Malawi)	97	17	7	0.8	12	1.1	5	0.6	16	0.6	15	1.9	2	0.8	17	5.9	23	6.0	0.76	4.2	5.4	0.87	4.3	7 ZM421	93	19	9	0.5	20	0.6	25	0.3	28	0.7	8	1.2	19	0.5	25	9.5	9	4.0	0.84	3.7	3.7	0.91	4.3	29 LOCAL CHECK 1	89	20	10	0.5	22	0.8	16	0.5	23	0.3	27	1.1	25	1.2	5	5.9	24	5.1	0.77	3.7	5.3	0.82	4.4	25 MATINDIRI C1	89	20	6	0.7	14	1.1	6	0.6	16	0.6	18	1.2	23	0.6	13	2.2	28	4.9	0.88	4.3	3.3	1.07	4.2	25 MALAWI	91	21	8	0.6	18	0.6	23	0.9	4	0.2	28	1.6	6	0.4	27	7.9	21	4.6	1.10	4.5	3.9	1.00	5.3	28 MATUBA	89	21	6	0.6	16	1.1	3	0.5	21	0.3	25	1.5	9	0.4	28	6.9	22	4.9	0.86	4.3	3.9	0.86	5.0	17 PL15QC7-SRC1	89	21	6	0.6	16	1.1	3	0.5	21	0.3	25	1.5	9	0.4	28	6.9	22	4.9	0.86	4.3	3.9	0.86	5.0	Maturity group average	100	16	7	0.7	15	0.9	13	0.6	17	0.6	15	1.3	16	0.8	16	8.3	14	5.1	0.83	4.1	4.0	0.96	4.7	Entries with anthesis date > 68 days																												12 ZM523	124	6	6	0.9	11	0.8	17	0.6	15	1.4	1	1.8	4	1.0	8	10.5	3	4.8	0.80	4.0	3.7	1.00	4.5	15 02SADVE	116	7	5	0.7	13	0.6	22	0.6	13	0.8	4	1.5	7	1.0	7	9.6	7	4.6	0.69	3.7	3.5	0.88	4.1	14 01SADVI	118	8	6	0.9	7	0.9	12	0.8	6	0.9	2	1.5	11	1.2	3	10.9	1	4.6	0.76	3.6	3.1	0.99	5.0	24 MACOMP01 MALAWI	110	12	7	0.7	14	0.9	11	0.5	19	0.6	13	1.8	5	1.0	9	8.4	17	4.7	0.83	3.8	4.1	0.91	4.7	8 ZM521	109	12	7	0.7	17	1.0	9	0.5	22	0.5	19	1.2	20	0.3	30	9.0	12	4.5	0.97	3.9	3.1	0.95	4.8	27 KEP	106	13	9	0.8	16	0.5	29	1.5	1	0.6	17	1.5	8	0.8	16	5.7	25	5.7	0.76	3.9	5.9	0.90	4.0	1 VV021	104	15	7	0.6	18	0.5	27	0.6	17	0.6	11	1.1	24	0.7	21	9.3	11	4.7	0.74	3.6	3.4	0.86	4.8	19 AMEDIN-1	98	17	8	0.8	8	1.0	10	0.8	7	0.7	6	1.2	17	1.4	1	4.9	26	6.6	0.81	4.3	4.9	0.86	4.5	21 KEP C1 BOTSWANA	86	21	8	0.6	18	0.6	26	0.9	3	0.4	24	0.9	29	1.2	5	3.0	27	8.4	0.68	4.0	6.0	0.67	4.2	Maturity group average	108	12	7	0.8	13	0.7	18	0.8	11	0.7	11	1.4	14	0.9	11	7.9	14	5.4	0.78	3.9	4.2	0.89	4.5	Mean	99	16	7	0.7	16	0.8	16	0.6	16	0.6	15	1.3	16	0.8	16	8.3	14	5.3	0.81	4.1	3.8	0.94	4.8	LSD (0.05)	63	6	5	0.2	7	0.4	7	0.1	7	0.1	1.4	0.8	0.8	1.4	0.3	2.0	0.3	3.5	0.68	3.6	1.0	0.67	4.0	124	27	10	0.9	29	1.5	1.5	1.4	10.9	8.4	1.10	5.2	6.1	1.14	5.6	43	43	3	1	1	0	0	4	4	2	3	3	1	NumSignificantSites																																																																																																																																																																															
Entries with anthesis date > 68 days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
12 ZM523	124	6	6	0.9	11	0.8	17	0.6	15	1.4	1	1.8	4	1.0	8	10.5	3	4.8	0.80	4.0	3.7	1.00	4.5	15 02SADVE	116	7	5	0.7	13	0.6	22	0.6	13	0.8	4	1.5	7	1.0	7	9.6	7	4.6	0.69	3.7	3.5	0.88	4.1	14 01SADVI	118	8	6	0.9	7	0.9	12	0.8	6	0.9	2	1.5	11	1.2	3	10.9	1	4.6	0.76	3.6	3.1	0.99	5.0	24 MACOMP01 MALAWI	110	12	7	0.7	14	0.9	11	0.5	19	0.6	13	1.8	5	1.0	9	8.4	17	4.7	0.83	3.8	4.1	0.91	4.7	8 ZM521	109	12	7	0.7	17	1.0	9	0.5	22	0.5	19	1.2	20	0.3	30	9.0	12	4.5	0.97	3.9	3.1	0.95	4.8	27 KEP	106	13	9	0.8	16	0.5	29	1.5	1	0.6	17	1.5	8	0.8	16	5.7	25	5.7	0.76	3.9	5.9	0.90	4.0	1 VV021	104	15	7	0.6	18	0.5	27	0.6	17	0.6	11	1.1	24	0.7	21	9.3	11	4.7	0.74	3.6	3.4	0.86	4.8	19 AMEDIN-1	98	17	8	0.8	8	1.0	10	0.8	7	0.7	6	1.2	17	1.4	1	4.9	26	6.6	0.81	4.3	4.9	0.86	4.5	21 KEP C1 BOTSWANA	86	21	8	0.6	18	0.6	26	0.9	3	0.4	24	0.9	29	1.2	5	3.0	27	8.4	0.68	4.0	6.0	0.67	4.2	Maturity group average	108	12	7	0.8	13	0.7	18	0.8	11	0.7	11	1.4	14	0.9	11	7.9	14	5.4	0.78	3.9	4.2	0.89	4.5	Mean	99	16	7	0.7	16	0.8	16	0.6	16	0.6	15	1.3	16	0.8	16	8.3	14	5.3	0.81	4.1	3.8	0.94	4.8	LSD (0.05)	63	6	5	0.2	7	0.4	7	0.1	7	0.1	1.4	0.8	0.8	1.4	0.3	2.0	0.3	3.5	0.68	3.6	1.0	0.67	4.0	124	27	10	0.9	29	1.5	1.5	1.4	10.9	8.4	1.10	5.2	6.1	1.14	5.6	43	43	3	1	1	0	0	4	4	2	3	3	1	NumSignificantSites																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Mean	99	16	7	0.7	16	0.8	16	0.6	16	0.6	15	1.3	16	0.8	16	8.3	14	5.3	0.81	4.1	3.8	0.94	4.8	LSD (0.05)	63	6	5	0.2	7	0.4	7	0.1	7	0.1	1.4	0.8	0.8	1.4	0.3	2.0	0.3	3.5	0.68	3.6	1.0	0.67	4.0	124	27	10	0.9	29	1.5	1.5	1.4	10.9	8.4	1.10	5.2	6.1	1.14	5.6	43	43	3	1	1	0	0	4	4	2	3	3	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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ILPO03: Results of evaluation of intermediate to late maturing OPVs from Angola, CIMMYT, Ghana, Malawi and Tanzania across 56 sites in eastern and southern Africa, 2002/03.

Table 4C

Entry Name	Pedigree	Origin	Comments	Across		Mid Altitudes Eastern Africa - Grain Yields									
				Rel GY	Rank	Across	u/ha	Rank	u/ha	Rank	u/ha	Rank	u/ha	Rank	
4 96SADVI	98SADVI F2	CIMMYT	Non-QPM	107	8	6.0	10	6.7	11	4.2	8	7.6	11	5.3	8
16 TMV-1 DR C1	TMV-1 DR C1	TANZANIA	Non-QPM	96	13	5.0	16	5.3	18	4.1	11	6.7	17	4.1	18
9 S01SIWQ	S01SIWQc1F2 (QPM)	CIMMYT	QPM	83	15	4.9	16	3.9	20	3.7	16	7.0	16	5.1	10
Maturity group average															
Entries with anthesis date between 67 - 70 days															
6 02SADVI	02SADVI F2	CIMMYT	Non-QPM	125	4	7.0	3	7.6	3	4.7	4	8.6	4	7.2	2
5 01SADVL	01SADVL F2	CIMMYT	Non-QPM	109	7	6.2	7	7.0	8	4.3	7	8.1	6	5.4	6
1 ZM511	[P501-SR/P502-SR] F2	CIMMYT	Non-QPM	109	8	6.1	9	7.0	9	5.5	2	5.9	20	5.9	5
15 MASIKA	MASIKA	MALAWI	Non-QPM	93	12	5.4	14	5.2	19	4.0	12	7.2	13	5.1	11
19 LOCAL CHECK 1	Various	Various	Non-QPM	89	13	5.8	10	7.1	7	4.2	9	6.6	18	5.3	7
2 ZM621-FLINT	ZM621-FLINT F2	CIMMYT	Non-QPM	95	13	5.3	15	5.4	17	3.8	14	7.0	15	5.0	12
20 LOCAL CHECK 2	Various	Various	Non-QPM	85	13	6.2	9	7.2	6	3.5	17	8.9	2	5.3	9
8 WeeviiA/Bc1	WeeviiA/Bc1F2	CIMMYT	Non-QPM	94	13	5.4	15	6.7	12	2.9	19	7.1	14	5.0	13
10 OBATANPA-ZMSRc1	OBATANPA-ZMSRc1F2	CIMMYT	QPM	87	14	5.6	14	6.3	15	3.3	18	7.9	8	4.9	16
14 ALCI	ALCI	ANGOLA	Non-QPM	88	15	5.0	18	5.5	16	3.7	15	6.6	19	4.0	20
Maturity group average															
Entries with anthesis date > 72 days															
7 02SADVL	02SADVL F2	CIMMYT	Non-QPM	123	4	6.5	7	7.6	4	4.1	10	7.7	9	6.7	3
3 ZM523	99SADVL F2	CIMMYT	Non-QPM	120	5	7.4	3	7.0	10	5.7	1	9.2	1	7.8	1
13 ECAVL2-DLN	ECAVL2-DLN	CIMMYT	Non-QPM	108	8	6.4	7	7.4	5	4.6	5	8.8	3	4.9	15
17 KILIMA DR C1	KILIMA DR C1	TANZANIA	Non-QPM	106	9	6.9	5	8.7	1	4.5	6	8.1	7	6.1	4
12 ECAVL1-DLN	ECAVL1-DLN	CIMMYT	Non-QPM	107	9	5.9	10	6.4	14	4.8	3	8.3	5	4.0	19
18 STAHA DR C1	STAHA DR C1	TANZANIA	Non-QPM	94	12	6.0	11	7.8	2	4.0	13	7.6	10	4.8	17
11 OBATANPA	OBATANPA	GHANA	QPM	81	16	5.4	15	6.5	13	2.9	20	7.4	12	5.0	14
Maturity group average															
Mean				106	9	6.4	8	7.3	7	4.4	8	8.2	7	5.6	10
LSD (0.05)				100	11	5.9	11	6.6		4.1		7.6		5.4	
P				0.8		1.4		1.4		1.4		1.7		1.6	
Mln				81	4	4.9	3	3.9		2.9		5.9		4.0	
Max				125	16	7.4	18	8.7		5.7		9.2		7.8	
NumSignificantSites				32	32	4	4	1	1	1	1	1	1	1	1

ILPOP03: Results of evaluation of intermediate to late maturing OPVs from Angola, CIMMYT, Ghana, Malawi and Tanzania across 56 sites in eastern and southern Africa, 2002/03.

Entry Name	Across		Mid All Humid Warm (Zone A) - Grain Yields										Chitedze Mal								
	Rel.GY	Rank	Across	u/ha	Rank	u/ha	Rank	u/ha	Rank	u/ha	Rank	u/ha	Rank	u/ha	Rank	u/ha	Rank				
	%	Avg	Sidev	u/ha	Rank	u/ha	Rank	u/ha	Rank	u/ha	Rank	u/ha	Rank	u/ha	Rank	u/ha	Rank				
Entries with anthesis date between 67 - 70 days																					
4 98SADVI	107	8	4	3.0	9	7.5	6	4.4	9	3.3	10	4.1	8	8.3	4	1.1	8	0.7	5	5.6	12
16 TMV-1 DR C1	96	13	4	2.8	12	7.3	9	3.8	16	3.3	9	3.3	18	8.2	5	0.7	17	0.6	11	5.2	16
9 S01SIWQ	83	15	5	2.2	17	7.2	10	3.1	20	2.5	16	4.4	4	6.8	15	0.8	15	0.5	20	4.1	20
Maturity group average	95	12	4	2.7	12	7.3	8	3.8	15	3.0	12	3.9	10	7.8	8	0.8	13	0.6	12	5.0	16
Entries with anthesis date between 70 - 72 days																					
6 02SADVI	125	4	4	3.4	5	7.3	8	4.9	6	4.0	1	3.6	16	9.0	1	0.6	19	0.7	4	5.8	9
5 01SADVL	109	7	4	3.3	5	6.1	16	5.3	1	3.7	2	3.6	15	8.8	2	1.0	10	0.7	7	5.9	8
1 ZM611	109	8	5	3.0	9	6.0	17	4.8	7	3.1	11	3.6	14	8.4	3	0.6	20	0.7	8	6.0	6
15 MASIKA	93	12	5	2.7	13	7.5	7	4.0	13	3.5	6	4.4	3	6.9	14	0.9	12	0.6	12	5.1	17
19 LOCAL CHECK 1	89	13	6	2.3	14	4.7	20	3.1	19	1.7	20	2.8	20	7.4	12	0.7	16	0.8	1	5.8	10
2 ZM621-FLINT	95	13	4	2.6	15	7.2	11	3.7	17	3.5	7	4.7	1	7.6	10	1.3	4	0.6	15	4.8	19
20 LOCAL CHECK 2	85	13	6	2.8	11	8.3	2	4.1	12	1.9	19	3.6	13	7.6	9	1.1	9	0.6	17	6.0	7
8 Weevia/Bc1	94	13	4	2.8	12	6.7	14	3.9	15	2.3	17	3.7	12	7.8	8	0.8	14	0.6	14	6.1	5
10 OBATANPA-ZMSRc1	87	14	5	2.6	14	7.7	4	3.6	18	2.6	15	3.5	17	6.4	17	1.4	2	0.7	9	5.1	18
14 ALCI	88	15	4	2.7	14	5.7	18	4.2	11	2.7	14	3.3	19	7.9	7	1.0	11	0.6	18	5.3	14
Maturity group average	98	11	5	2.8	11	6.7	12	4.2	12	2.9	11	3.7	13	7.8	8	0.9	12	0.7	11	5.6	11
Entries with anthesis date > 72 days																					
7 02SADVL	123	4	3	3.5	5	7.1	12	4.3	10	3.6	4	3.9	10	7.4	13	1.1	7	0.8	3	7.9	1
3 ZM623	120	5	4	3.5	5	7.7	5	5.2	3	3.4	8	3.8	11	7.4	11	1.6	1	0.8	2	7.2	2
13 ECAVL2-DLN	108	8	5	3.2	9	6.1	15	5.3	2	3.6	5	4.0	9	6.4	16	1.2	5	0.6	13	6.7	3
17 KILIMA DR C1	106	9	6	3.5	3	9.0	1	5.2	4	3.6	3	4.6	2	7.9	6	0.6	18	0.7	6	6.3	4
12 ECAVL1-DLN	107	9	5	3.0	11	7.8	3	4.9	5	3.1	12	4.2	6	5.5	19	1.3	3	0.6	16	5.5	13
18 STAHA DR C1	94	12	6	3.1	10	6.8	13	4.8	8	3.1	13	4.3	5	6.0	18	1.1	6	0.7	10	5.7	11
11 OBATANPA	81	16	3	2.4	17	5.6	19	3.9	14	2.0	18	4.1	7	5.4	20	0.9	13	0.5	19	5.3	15
Maturity group average	106	9	5	3.2	9	7.2	10	4.8	7	3.2	9	4.1	7	6.6	15	1.1	8	0.7	10	6.4	7
Mean	100	11	5	2.9	11	7.0	11	4.3	11	3.0	11	3.9	11	7.4	11	1.0	11	0.7	11	5.8	11
LSD (0.05)				0.3		2.0		1.0		0.9		3.2		2.4		0.6		0.1		1.6	
P																					
Min	81	4	3	2.2	3	4.7	3	3.1	3	1.7	3	2.8	3	5.4	3	0.6	3	0.5	3	4.1	3
Max	125	16	6	3.5	17	9.0	6	5.3	6	4.0	6	4.7	6	9.0	6	1.6	6	0.9	6	7.9	6
NumSignificantSites	32	32	32	7	1	0	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1

ILPOP03: Results of evaluation of intermediate to late maturing OPVs from Angola, CIMMYT, Ghana, Malawi and Tanzania across 56 sites in eastern and southern Africa, 2002/03.

Table 4E

Entry Name	Across		Mid Alt Humid Warm (Zone A) - Grain Yields				Mid Alt Humid Hot (Zone B) - Grain Yields														
	Rel GY	Rank	Evumbwe Mal	Lichinga Moz	Marondera Zim	Marondera Zim	Machera Zam	Tabora Tan	Mazozo Ang	Kilomba Ang											
%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank											
Entries with anthesis date between 67 - 70 days																					
4 98SADVI	107	8	4	4.2	10	2.1	3	0.9	11	1.4	2	4.6	7	1.7	7	0.3	9	4.4	3	1.7	6
16 TMV-1 DR C1	96	13	4	4.0	13	1.4	13	1.3	4	0.6	18	3.6	16	1.4	14	0.2	14	3.9	8	1.4	14
9 S01SIWQ	83	15	5	2.9	20	1.0	18	1.1	6	0.8	12	3.8	15	1.3	19	0.2	12	3.5	16	1.3	15
Maturity group average	95	12	4	3.7	14	1.5	11	1.1	7	0.9	11	4.0	12	1.4	13	0.2	12	3.9	9	1.5	12
Entries with anthesis date between 70 - 72 days																					
6 02SADVI	125	4	4	5.0	2	1.7	8	1.3	5	0.8	14	5.5	2	1.7	4	0.4	1	4.0	6	2.9	1
5 01SADVL	109	7	4	4.4	8	1.9	7	1.5	1	0.8	10	4.8	7	1.7	5	0.2	13	3.9	9	1.6	10
1 ZM611	109	8	5	4.5	6	1.2	15	1.0	10	1.4	3	4.9	4	1.8	1	0.2	19	3.9	10	2.3	2
15 MASIKA	93	12	5	4.0	12	1.2	14	0.4	20	1.5	1	4.0	13	1.5	13	0.3	8	3.8	11	1.1	17
19 LOCAL CHECK 1	89	13	6	3.7	17	0.6	20	0.8	14	0.7	16	3.0	19	1.6	8	0.3	7	2.5	20	1.0	19
2 ZM621-FLINT	95	13	4	3.3	19	1.2	16	0.9	12	0.7	15	4.3	10	1.4	16	0.2	16	3.7	13	1.7	8
20 LOCAL CHECK 2	85	13	6	4.3	9	1.9	6	1.1	9	0.3	20	3.7	13	1.4	17	0.2	10	3.5	15	1.8	5
8 Weevii/Bc1	94	13	4	4.0	15	1.4	12	1.1	7	1.3	4	3.7	16	1.4	15	0.2	17	3.4	17	1.1	18
10 OBATANPA-ZMSRc1	87	14	5	4.0	14	0.9	19	1.4	2	0.4	19	4.0	11	1.4	18	0.2	20	4.6	2	1.6	9
14 ALCI	88	15	4	3.9	16	1.5	10	0.9	13	0.9	8	3.5	16	1.3	20	0.2	15	4.0	7	1.5	12
Maturity group average	98	11	5	4.1	12	1.3	13	1.0	9	0.9	11	4.2	11	1.5	12	0.2	13	3.7	11	1.7	10
Entries with anthesis date > 72 days																					
7 02SADVL	123	4	3	4.9	4	2.1	4	1.1	8	1.0	6	5.1	3	1.8	3	0.3	3	5.0	1	1.9	4
3 ZM623	120	5	4	5.3	1	2.1	2	0.8	15	0.9	7	5.1	5	1.5	11	0.3	4	3.7	12	1.6	11
13 ECAVL2-DLN	108	8	5	4.1	11	1.4	11	0.5	18	1.2	5	4.8	5	1.6	9	0.3	7	3.1	19	2.2	3
17 KILIMA DR C1	106	9	6	5.0	3	2.2	1	1.4	3	0.9	9	4.6	9	1.6	10	0.3	5	3.4	18	1.1	16
12 ECAVL1-DLN	107	9	5	4.5	7	1.6	9	0.7	16	0.8	13	4.3	9	1.7	6	0.2	12	4.3	4	1.7	7
18 STAHA DR C1	94	12	6	4.9	5	1.9	5	0.5	19	0.6	18	4.1	14	1.8	2	0.3	2	3.5	14	1.0	20
11 OBATANPA	81	16	3	3.4	18	1.2	17	0.6	17	0.8	11	3.5	16	1.5	12	0.2	18	4.1	5	1.4	13
Maturity group average	106	9	5	4.6	7	1.8	7	0.8	14	0.9	10	4.5	9	1.6	8	0.3	7	3.9	10	1.5	11
Mean	100	11	5	4.2	5	1.5	5	1.0	10	0.9	10	4.2	11	1.5	11	0.2	11	3.6	11	1.6	11
LSD (0.05)				0.8		0.6		0.6		0.9		0.5		0.4		0.1		1.1		0.8	
P				***		***		*		NS				†		NS		+		*	
Min	81	4	3	2.9	1	0.6	1	0.4	1	0.3	1	3.0	2	1.3	1	0.2	1	2.5	1	1.0	1
Max	125	19	6	5.3	1	2.2	1	1.5	19	1.5	19	5.5	19	1.8	18	0.4	18	5.0	19	2.9	19
NumSignificantSites	32	32	32	1	1	1	1	1	1	0	0	3	0	0	0	0	0	0	0	1	1

ILPOP03: Results of evaluation of intermediate to late maturing OPVs from Angola, CIMMYT, Ghana, Malawi and Tanzania across 56 sites in eastern and southern Africa, 2002/03.

Table 4F

Entry Name	Across			Mid Alt Humid Hot (Zone B) - Grain Yields			Mid Alt Dry (Zone C - Grain Yields)											
	Rel GY	Rank	Rank	Makoka Mal	Sussundenga Moz	Angonia - Tolu Moz	Potchefstroom RSA	Nhlangano Swa	Malikerns Swa	Pelotshetha Bot	Arusha Tan							
%	Avg	Stdev	u/ha	Rank	u/ha	Rank	u/ha	Rank	u/ha	Rank	u/ha	Rank						
Entries with anthelasis data between 67 - 70 days																		
4 98SADVI	107	8	4	6.5	10	2.2	2.3	10	2.6	17	4.1	1	3.1	13	1.6	1	1.5	3
16 TMV-1 DR C1	96	13	4	5.4	19	1.5	2.3	13	2.6	18	3.4	12	3.9	9	1.1	11	1.2	5
9 S01SIWQ	83	15	5	5.4	18	1.8	1.8	18	3.3	5	3.3	14	2.8	16	1.2	9	1.5	4
Maturity group average	95	12	4	5.8	16	1.8	2.1	14	2.8	13	3.6	9	3.3	13	1.3	7	1.4	4
Entries with anthelasis data between 70 - 72 days																		
6 02SADVI	125	4	4	7.2	5	2.5	2.5	5	3.5	3	3.5	10	3.5	11	1.3	6	1.1	7
5 01SADVL	109	7	4	7.8	2	2.2	2.0	10	2.7	15	3.6	6	2.2	18	1.2	8	1.6	1
1 ZM611	109	8	5	7.3	4	2.3	2.3	7	3.0	8	3.7	5	3.7	10	0.8	19	1.2	6
15 MASIKA	93	12	5	6.3	13	1.8	2.5	8	2.9	10	3.6	7	4.7	4	1.4	5	0.8	15
19 LOCAL CHECK 1	89	13	6	5.6	17	1.9	1.7	13	4.3	1	3.7	4	1.5	19	1.1	12	1.0	11
2 ZM621-FLINT	95	13	4	6.4	12	1.5	2.3	12	2.8	11	3.5	11	4.0	7	1.1	10	0.9	13
20 LOCAL CHECK 2	85	13	6	5.9	15	1.9	1.7	12	3.5	4	3.1	16	1.3	20	1.0	14	1.6	2
8 Weevii/Bc1	94	13	4	6.0	14	2.3	2.1	12	3.0	9	3.3	13	3.3	12	0.9	16	1.1	8
10 OBATANPA-ZMSRc1	87	14	5	6.4	11	1.9	2.0	14	2.8	12	3.6	9	3.1	14	0.9	17	0.7	17
14 ALCI	88	15	4	5.4	20	1.9	2.2	15	2.6	19	3.9	3	4.4	5	0.9	18	0.9	14
Maturity group average	98	11	5	6.4	11	2.0	2.1	11	3.1	9	3.6	8	3.2	12	1.1	13	1.1	9
Entries with anthelasis data > 72 days																		
7 02SADVL	123	4	3	8.0	1	2.5	2.8	3	3.2	6	4.0	2	4.7	3	1.3	7	1.0	10
3 ZM623	120	5	4	7.6	3	2.0	2.5	9	3.6	2	3.2	15	4.0	8	1.5	2	0.7	18
13 ECAVL2-DLN	108	8	5	7.1	6	2.0	2.8	5	2.8	13	3.1	17	5.1	2	1.4	3	0.8	16
17 KILIMA DR C1	106	9	6	7.0	7	1.9	2.4	9	3.1	7	3.6	8	4.3	6	1.0	13	0.9	12
12 ECAVL1-DLN	107	9	5	6.8	8	2.0	2.1	12	2.8	14	2.4	18	3.0	15	1.4	4	0.6	19
18 STAHADR C1	94	12	6	6.7	9	2.4	2.5	7	2.7	16	2.4	19	5.1	1	0.9	15	1.0	9
11 OBATANPA	81	16	3	5.8	16	2.2	1.7	18	1.7	20	2.2	20	2.7	17	0.5	20	0.4	20
Maturity group average	106	9	5	7.0	7	2.1	2.4	9	2.8	11	3.0	14	4.1	7	1.2	9	0.8	15
Mean	100		5	6.5		2.0	2.2	11	3.0		3.4		3.5		1.1		1.0	
LSD (0.05)				1.2		0.7	0.5		1.0		1.3		1.6		0.5		0.7	
P				***		ns	***		+		ns		***		ns		ns	
Min	81	4	3	5.4		1.5	1.7	3	1.7		2.2		1.3		0.5		0.4	
Max	125	16	6	8.0		2.5	2.8	18	4.3		4.1		5.1		1.6		1.6	
NumSignificantSites	32	32	32	1		0	4		0		0		1		0		0	

ILPOP03: Results of evaluation of intermediate to late maturing OPVs from Angola, CIMMYT, Ghana, Malawi and Tanzania across 56 sites in eastern and southern Africa, 2002/03.

Table 4G

Entry Name	Across			Mid Alt Dry (Zone C) - Grain Yields			Zone D - Grain Yields			Lowland Trop Dry (Zone E) - Grain Yields			Goodhope Bot								
	Rel GY	Rank	%	Makoholi Zim	Kadoma Zim	Kadoma Zim	Makoholi Zim	Makoholi Zim	Ilonga Tin	Across	Nanga Zam	Sebelle Bot	Goodhope Bot								
				t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank						
Entries with anthesis date between 67 - 70 days																					
4 98SADVI	107	8	4	1.8	11	5.0	2	0.9	12	0.2	14	2.3	15	3.0	5	4.5	6	0.1	18	2.4	8
16 TMV-1 DR C1	96	13	4	2.2	3	4.3	8	0.8	17	0.2	18	2.4	12	2.4	12	3.9	14	0.3	4	2.0	16
9 S01SIWQ	83	15	5	2.1	4	3.7	18	0.5	20	0.2	17	2.1	18	2.7	8	3.4	19	0.1	15	2.1	15
Maturity group average	95	12	4	2.0	6	4.3	9	0.7	16	0.2	16	2.3	15	2.7	8	4.0	13	0.1	12	2.2	13
Entries with anthesis date between 70 - 72 days																					
6 02SADVI	125	4	4	1.7	13	5.0	3	1.0	4	0.5	1	2.8	8	3.3	5	4.2	10	0.3	6	2.7	2
5 01SADVL	109	7	4	1.9	7	4.7	5	0.9	7	0.3	11	2.8	5	2.8	7	4.3	7	0.3	3	2.2	11
1 ZM611	109	8	5	1.5	19	4.2	9	0.9	6	0.5	2	2.4	13	2.8	6	5.3	2	0.1	12	1.5	18
15 MASIKA	93	12	5	1.8	9	4.0	12	0.9	11	0.4	3	2.8	4	2.4	10	4.0	12	0.3	5	2.4	7
19 LOCAL CHECK 1	89	13	6	1.5	17	4.1	11	0.9	8	0.3	12	1.8	20	2.5	10	4.8	3	0.1	17	2.6	5
2 ZM621-FLINT	95	13	4	1.5	20	3.9	14	0.8	16	0.3	10	2.5	9	2.2	14	3.9	15	0.1	10	2.2	13
20 LOCAL CHECK 2	85	13	6	2.3	2	4.5	7	1.1	1	0.1	20	3.0	2	1.9	17	3.6	18	0.0	20	1.4	20
8 Weevil/Bc1	94	13	4	1.7	14	3.9	15	0.9	13	0.3	9	2.4	14	2.2	16	4.8	4	0.2	9	2.1	14
10 OBATANPA-ZMSRc1	87	14	5	2.4	1	3.7	16	0.9	5	0.1	19	2.5	11	2.3	14	5.5	1	0.4	1	2.7	3
14 ALCI	88	15	4	1.5	18	3.6	19	0.7	19	0.2	15	2.2	16	2.1	16	2.4	20	0.0	19	2.2	12
Maturity group average	98	11	5	1.8	12	4.2	11	0.9	9	0.3	10	2.5	10	2.4	12	4.3	9	0.2	10	2.2	11
Entries with anthesis date > 72 days																					
7 02SADVL	123	4	3	1.8	10	5.3	1	1.0	2	0.3	7	2.7	7	3.2	4	4.0	13	0.4	2	2.3	10
3 ZM623	120	5	4	1.7	12	4.7	6	0.9	9	0.2	13	2.1	17	3.1	5	4.3	8	0.2	8	2.5	6
13 ECAVL2-DLN	108	8	5	1.6	16	4.9	4	0.9	10	0.4	5	3.1	1	2.6	12	4.8	5	0.1	15	2.6	4
17 KILIMA DR C1	106	9	6	2.0	5	4.0	13	0.9	14	0.4	4	2.5	10	2.5	13	4.3	9	0.1	13	2.8	1
12 ECAVL1-DLN	107	9	5	1.9	6	4.1	10	0.8	15	0.3	8	2.8	3	3.0	6	3.8	16	0.1	11	1.5	19
18 STAHA DR C1	94	12	6	1.8	8	3.7	17	1.0	3	0.3	6	2.6	8	2.3	15	3.6	17	0.1	17	2.4	9
11 OBATANPA	81	16	3	1.6	15	3.2	20	0.8	18	0.2	16	2.0	19	2.3	14	4.1	11	0.2	7	1.7	17
Maturity group average	106	9	5	1.8	10	4.3	10	0.9	10	0.3	8	2.6	9	2.7	10	4.1	11	0.2	10	2.3	9
Mean	100	11	5	1.8	10	4.2	10	0.9	10	0.3	8	2.5	9	2.6	10	4.2	10	0.2	10	2.2	9
LSD (0.05)				0.5		1.1		0.1		0.2		1.0		0.4		1.7		0.4		1.2	
P				+		ns		ns		ns		ns		ns		ns		ns		ns	
Min	81	4	3	1.5	15	3.2	20	0.5	18	0.1	16	1.8	4	1.9	4	2.4	17	0.0	17	1.4	15
Max	125	16	6	2.4	2	5.3	1	1.1	1	0.5	1	3.1	17	3.3	17	5.5	1	0.4	1	2.8	2
NumSignificantSites	32	32	32	0	1	1	1	1	1	1	1	0	5	5	5	0	0	0	0	0	0

ILPOP03: Results of evaluation of intermediate to late maturing OPVs from Angola, CIMMYT, Ghana, Malawi and Tanzania across 56 sites in eastern and southern Africa, 2002/03.

Entry Name	Across		Lowland Tropical Dry (Zone E) - Grain Yields										Zone F-Grain Yields				
	Rel GY	Rank	Arusha Tan	Mazozo Ang	Chiredzi Zim	Salima Mal	Nampula Moz	Save Valley Zim	Humpata Ang	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 67 - 70 days																	
4 95SADVI	107	8	2.1	3.2	3.4	1.9	3.3	3.0	3.3	2	5	3.3	12	3.0	1	6.3	8
16 TMV-1 DR C1	96	13	2.0	2.6	2.8	1.6	3.3	2.0	3.3	10	11	3.3	15	2.0	11	4.8	19
9 S01SIWQ	83	15	1.5	3.8	2.7	1.7	3.1	2.3	3.1	11	8	3.1	16	2.3	4	5.4	13
Maturity group average																	
Entries with anthesis date between 70 - 72 days																	
6 02SADVI	125	4	1.7	2.7	4.3	2.4	4.1	2.8	4.1	8	10	4.1	4	2.8	2	7.0	2
5 01SADVL	109	7	1.6	2.4	3.2	2.3	3.8	2.2	3.8	6	12	3.8	7	2.2	7	6.7	4
1 ZM611	109	8	1.2	2.7	3.2	2.2	3.9	2.0	3.9	4	9	3.9	6	2.0	10	6.7	5
15 MASIKA	93	12	1.6	3.3	2.6	1.3	2.5	2.3	2.5	7	4	2.5	20	2.3	5	6.2	9
19 LOCAL CHECK 1	89	13	1.3	1.8	3.0	1.5	3.4	2.7	3.4	5	12	3.4	11	2.7	3	5.4	14
2 ZM621-FLINT	95	13	1.2	2.2	2.6	1.2	3.3	1.9	3.3	12	14	3.3	13	1.9	15	5.9	10
20 LOCAL CHECK 2	85	13	1.2	1.8	2.6	1.5	3.1	0.7	3.1	16	18	3.1	17	0.7	20	5.6	12
8 WeevlIA/Bc1	94	13	2.1	2.1	2.4	1.7	3.3	1.4	3.3	20	17	3.3	14	1.4	19	5.6	11
10 OBATANPA-ZMSRc1	87	14	1.3	2.1	3.0	1.3	3.6	1.6	3.6	13	16	3.6	9	1.6	18	5.2	17
14 ALCI	88	15	1.1	2.1	2.2	1.3	3.0	1.9	3.0	19	15	3.0	18	1.9	12	5.2	18
Maturity group average																	
Entries with anthesis date > 72 days																	
7 02SADVL	123	4	1.4	3.9	3.6	1.7	4.7	2.3	4.7	3	1	4.7	1	2.3	6	6.8	3
3 ZM623	120	5	1.7	3.1	4.3	1.8	4.2	2.1	4.2	1	7	4.2	3	2.1	9	7.1	1
13 ECAVL2-DLN	108	8	1.5	2.8	2.3	1.3	4.7	1.7	4.7	18	8	4.7	2	1.7	16	6.4	7
17 KILIMADR C1	106	9	1.4	3.1	2.7	1.2	3.4	1.9	3.4	17	6	3.4	10	1.9	13	6.6	6
12 ECAVL1-DLN	107	9	1.6	3.6	3.4	2.1	3.7	2.1	3.7	9	4	3.7	8	2.1	8	5.4	15
18 STAHADR C1	94	12	0.9	1.7	3.0	1.1	3.9	1.9	3.9	14	20	3.9	5	1.9	14	5.3	16
11 OBATANPA	81	16	1.3	2.3	2.6	1.9	3.0	1.7	3.0	15	13	3.0	19	1.7	17	4.2	20
Maturity group average																	
Mean	100	11	1.5	2.7	3.0	1.7	3.6	2.0	3.6	11	8	3.6	7	1.9	12	6.0	10
LSD (0.05)			0.6	1.0	1.0	0.7	0.9	0.8	0.9			0.9		0.8		0.9	
P			+	**	*	*	**	**	**			**		**		**	
Min	81	4	0.9	1.7	2.2	1.1	2.5	0.7	2.5			2.5		0.7		4.2	
Max	125	16	2.1	3.9	4.3	2.4	4.7	3.0	4.7			4.7		3.0		7.1	
NumSignificantSites	32	32	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ILPOP03: Results of evaluation of intermediate to late maturing OPVs from Angola, CIMMYT, Ghana, Malawi and Tanzania across 56 sites in eastern and southern Africa, 2002/03.

Entry Name	N Stress - Grain Yields										Low pH - Grain Yields									
	Across					Across					Across									
	Rel GY	Avg	Sidev	u/ha	Rank	Rel GY	Avg	Sidev	u/ha	Rank	Rel GY	Avg	Sidev	u/ha	Rank					
Entries with anthesis date between 67 - 70 days																				
4 98SADVI	107	8	4	2.4	6	2.3	10	2.0	2.2	5	2.6	5	2.6	3	3.2	4	0.6	13	1.7	7
16 TMV-1 DR C1	96	13	4	1.8	13	2.0	13	2.1	1.6	12	1.9	14	1.7	11	2.7	13	0.9	6	1.3	12
9 S01SIWQ	83	15	5	1.5	15	1.6	17	2.3	1.2	18	2.3	8	1.0	17	3.1	7	0.6	15	1.0	19
Maturity group average																				
Entries with anthesis date between 70 - 72 days																				
6 02SADVI	125	4	4	2.8	2	3.0	2	2.7	2.2	4	3.0	1	3.0	1	3.5	1	0.9	10	1.0	18
5 01SADVL	109	7	4	2.3	6	2.8	3	3.4	2.0	7	2.5	7	2.0	7	2.7	12	0.8	12	2.4	1
1 ZM611	109	8	5	2.2	8	2.2	11	2.4	2.3	2	2.3	9	1.9	8	2.9	10	0.8	10	1.6	8
15 MASIKA	93	12	5	1.9	12	2.2	12	2.3	1.2	17	2.0	12	2.1	5	2.9	11	0.6	16	1.7	6
19 LOCAL CHECK 1	89	13	6	1.5	16	1.3	20	2.8	1.4	15	2.3	11	1.0	18	2.5	17	0.9	6	1.2	13
2 ZM621-FLINT	95	13	4	2.0	11	2.3	9	2.5	2.1	6	1.8	15	1.7	13	2.6	16	1.0	10	1.2	14
20 LOCAL CHECK 2	85	13	6	1.2	16	1.3	19	3.2	1.8	10	0.4	20	1.4	14	2.7	14	0.8	14	0.8	20
8 Weevii/Bc1	94	13	4	2.0	11	2.5	6	2.7	1.8	11	2.3	10	1.3	16	2.9	9	0.8	11	1.1	16
10 OBATANPA-ZMSRc1	87	14	5	1.4	17	2.3	8	2.6	1.1	19	1.2	19	0.9	20	3.2	5	0.6	12	1.1	15
14 ALCI	88	15	4	1.7	14	1.7	15	2.7	1.5	14	1.8	16	1.9	9	2.4	19	0.7	10	1.5	10
Maturity group average																				
Entries with anthesis date > 72 days																				
7 02SADVL	123	4	3	2.6	3	3.1	1	2.1	2.3	3	3.0	2	2.0	6	3.2	6	1.2	5	1.0	17
3 ZM623	120	5	4	2.5	5	2.6	5	2.9	1.9	9	2.6	4	2.8	2	3.3	2	1.2	7	1.8	5
13 ECAVL2-DLN	108	8	5	2.0	10	1.7	16	2.8	2.0	8	2.5	6	1.8	10	3.0	8	0.9	8	1.6	9
17 KILIMADR C1	106	9	6	1.9	12	2.7	4	2.3	1.4	16	1.8	17	1.7	12	2.4	20	0.5	13	2.0	3
12 ECAVL1-DLN	107	9	5	2.6	4	2.4	7	2.9	2.7	1	2.8	3	2.4	4	2.7	15	0.8	7	2.1	2
18 STAHADR C1	94	12	6	1.4	17	1.9	14	2.8	1.1	20	1.4	18	1.3	15	2.5	18	0.7	13	1.8	4
11 OBATANPA	81	16	3	1.4	16	1.3	18	3.4	1.5	13	1.9	13	1.0	19	3.3	3	0.6	14	1.5	11
Maturity group average																				
Mean	100	11	5	1.9	11	2.2	9	2.7	1.8	10	2.3	9	1.9	10	2.9	10	0.9	10	1.7	7
LSD (0.05)				0.4		0.5		1.0	0.7		0.8		0.9		0.7		0.8		0.8	
p						**		ns	**		***		**		ns				+	
Min	81	4	3	1.2	2	1.3	2	2.0	1.1	0.4	0.9	0.9	0.9	0.9	2.4	0.5	0.5	5	0.8	0.8
Max	125	16	6	2.8	17	3.1	18	3.4	2.7	3.0	3.0	3.0	3.0	3.5	3.5	3.5	1.2	16	2.4	2.4
NumSignificantSites	32	32	32	4	1	1	0	0	1	1	1	1	1	1	0	3	3	0	0	0

ILPO03: Results of evaluation of intermediate to late maturing OPVs from Angola, CIMMYT, Ghana, Malawi and Tanzania across 56 sites in eastern and southern Africa, 2002/03. Table 4J

Entry Name	Across		Low pH - Grain Yields				MSV-Grain Yields				N stress								
	Rel GY	Rank	Cabinda Ang		Marondera Zim		Luyangwa Mal		Marondera Zim		Marondera Zim		Harare Zim		Lowland Trop Dry (Zone E)				
			t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	ASI	Leaf	Ears/	Leaf	
%	Avg	Stdev													#	#	#	#	
Entries with anthesis date between 67 - 70 days																			
4 99SADVI	107	8	4	0.5	14	0.6	10	0.1	16	0.8	16	0.6	9	9.6	5	4.8	0.85	4.4	1.01
16 TMV-1 DR C1	96	13	4	0.7	3	0.9	5	0.1	18	1.2	10	0.6	10	8.6	9	5.4	0.84	4.8	1.06
9 S01SIWQ	83	15	5	0.4	17	0.4	14	0.1	17	1.1	13	0.5	15	3.8	20	5.0	0.75	4.8	0.82
Maturity group average																			
Entries with anthesis date between 70 - 72 days																			
6 02SADVI	125	4	4	0.6	8	0.3	18	0.3	4	1.7	4	0.8	3	10.2	3	5.1	0.87	4.3	0.98
5 01SADVL	109	7	4	0.5	12	0.4	16	0.2	14	1.5	7	0.6	13	10.3	2	5.6	0.78	4.3	0.95
1 ZM611	109	8	5	0.7	4	0.2	20	0.3	3	1.7	5	0.9	2	8.5	11	5.3	0.87	4.2	1.07
15 MASIKA	93	12	5	0.3	18	0.4	17	0.2	10	1.1	12	0.4	16	7.7	16	6.8	0.74	4.3	0.86
19 LOCAL CHECK 1	89	13	6	0.7	2	0.8	7	0.2	11	1.2	9	0.6	11	9.3	6	6.2	0.74	4.7	0.92
2 ZM621-FLINT	95	13	4	0.4	16	0.5	12	0.2	12	2.1	2	0.4	18	8.4	12	7.4	0.81	4.4	0.89
20 LOCAL CHECK 2	85	13	6	0.2	20	0.4	15	0.2	6	1.6	6	0.6	12	9.1	7	7.3	0.65	4.5	1.04
8 Weev/AVBc1	94	13	4	0.5	13	1.4	1	0.1	19	0.6	19	0.6	14	8.6	10	5.9	0.82	4.2	0.85
10 OBATANPA-ZMSRc1	87	14	5	0.5	11	0.5	11	0.2	13	0.8	14	0.6	8	7.6	17	7.6	0.72	4.7	0.95
14 ALCI	88	15	4	0.7	5	0.9	6	0.4	1	0.7	18	0.3	19	3.9	19	7.5	0.75	4.8	0.73
Maturity group average																			
Entries with anthesis date > 72 days																			
7 02SADVL	123	4	3	0.5	9	1.2	2	0.3	5	1.8	3	1.0	1	10.2	4	4.9	0.87	4.4	1.00
3 ZM623	120	5	4	0.5	10	0.6	9	0.2	9	2.3	1	0.4	17	10.7	1	3.8	0.90	4.2	1.04
13 ECAVL2-DLN	108	8	5	0.6	6	1.2	3	0.2	7	0.8	15	0.8	4	8.7	8	5.7	0.77	4.6	0.89
17 KILIMA DR C1	106	9	6	0.6	7	0.4	13	0.2	8	0.6	20	0.7	5	8.2	13	6.8	0.70	4.5	0.85
12 ECAVL1-DLN	107	9	5	0.8	1	0.9	4	0.3	2	0.7	17	0.7	7	7.8	15	4.2	0.85	4.0	0.86
18 STAHA DR C1	94	12	6	0.3	19	0.8	8	0.1	15	1.1	11	0.7	6	7.9	14	7.1	0.59	4.6	1.09
11 OBATANPA	81	16	3	0.4	15	0.2	19	0.0	20	1.3	8	0.2	20	6.0	18	7.0	0.77	4.7	0.88
Maturity group average																			
Mean	109	11	5	0.5	9	0.6	9	0.2	9	1.2	11	0.6	9	8.5	10	5.6	0.78	4.4	0.95
LSD (0.05)				0.3		0.3		0.3		0.8		0.6		8.3		6.0	0.75	4.5	0.94
P				*		***		ns		**		ns		**		1.7	0.09	0.4	0.21
Min	81	4	3	0.2		0.2		0.0		0.6		0.2		3.8		3.8	0.59	4.0	0.73
Max	125	16	6	0.8		1.4		0.4		2.3		1.0		10.7		7.6	0.90	4.8	1.09
NumSignificantSites	32	32	32	1		1		0		1		0		1		4	4	2	4

ElHYB03: Results of evaluation of early to intermediate maturing hybrids from AREG, CIMMYT, Monsanto, Pannar, SeedCo, and Zamseed across 56 sites in eastern and southern Africa, 2002/03.

Table 5C

Entry	Name	Pedigree	Origin	Comments	Across			Mid Altitudes Eastern Africa - Grain Yields					
					Rel GY	Rank		Across		Bako Eth		Namulonge Uga	
						%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha
Entries with anthesis date between 61 - 65 days													
24	CZH02008	CML312/CML442/CZL02007	CIMMYT	Non-QPM	103	18	10	5.8	17	5.0	34	2.8	20
1	983WH17	983WH17	ZIMBABWE	Non-QPM	93	23	9	4.7	28	6.2	19	2.1	29
3	953WH141	953WH141	ZIMBABWE	Non-QPM	92	23	10	4.9	27	6.5	11	2.4	22
Maturity group average					98	20	10	5.1	23	5.6	27	2.4	25
Entries with anthesis date between 66 - 69 days													
11	CZH00007	CML444/CML445/CML440	CIMMYT	Non-QPM	108	13	9	5.8	14	5.8	25	2.9	17
18	CZH02002	CML443/CML445/CZL02002	CIMMYT	Non-QPM	108	14	8	5.8	17	4.8	35	2.3	24
12	CZH00012	CML440/CZL00005/CZL00001/CML312	CIMMYT	Non-QPM	106	14	9	6.0	12	6.3	16	4.1	5
14	CZH01005	CML395/CML442/CML440	CIMMYT	Non-QPM	108	15	10	5.5	18	5.2	32	3.1	14
25	CZH02009	CML395/CML444/CZL02008	CIMMYT	Non-QPM	105	16	8	5.5	19	4.7	36	2.6	21
20	CZH02004	CML312/CML442/CZL02003	CIMMYT	Non-QPM	103	17	10	5.3	22	5.3	30	1.9	32
22	CZH02006	CML312/CML442/CZL02005	CIMMYT	Non-QPM	100	17	9	5.9	13	6.8	9	3.1	12
27	CZH01002	CML312/CZL99014/CZL01001	CIMMYT	Non-QPM	100	19	9	5.4	19	8.3	2	3.3	10
7	SC403	SC403	SEED-CO	Non-QPM	97	19	10	4.7	27	6.2	17	2.0	31
8	SC407	SC407	SEED-CO	Non-QPM	96	19	10	5.1	25	7.7	3	2.3	23
17	CZH02001	CZL02001/CML445/CML440	CIMMYT	Non-QPM	102	20	11	5.1	23	6.0	23	3.2	11
2	983WH78	983WH78	ZIMBABWE	Non-QPM	96	21	10	4.6	28	5.8	26	1.0	36
4	DK8031	DK8031	MONSANTO	Non-QPM	94	21	9	4.8	26	5.8	24	1.4	35
33	CZH02014	CZL01006/CML176/CZL02010	CIMMYT	QPM	94	24	9	4.8	28	6.0	22	2.2	26
34	CZH02015	CZL01006/CML176/CZL02011	CIMMYT	QPM	94	24	10	4.4	31	5.7	27	2.0	30
36	Local Check2	Various	Various	Non-QPM	88	25	11	5.0	24	6.4	15	3.9	6
32	CZH02013	CML144/CML159/CZL02011	CIMMYT	QPM	87	26	9	5.1	24	5.0	33	3.1	13
30	CZH01033	CZL01006/CML176/PL15QC7-SRC1	CIMMYT	QPM	88	26	8	5.4	22	8.9	1	2.9	18
Maturity group average					98	20	9	5.2	22	6.1	21	2.6	20
Entries with anthesis date > 69 days													
16	CZH01008	CML443/CML444/CZL00003	CIMMYT	Non-QPM	113	11	9	6.7	5	7.5	5	3.8	7
15	CZH01006	CML312/CML444/CZL00001	CIMMYT	Non-QPM	111	12	9	7.0	6	6.2	18	4.3	4
13	CZH00013	CML312/CML395/CZL00001	CIMMYT	Non-QPM	109	12	8	6.7	8	7.2	6	2.9	15
19	CZH02003	CZL02001/CML444/CML440	CIMMYT	Non-QPM	108	14	8	5.5	19	6.4	14	2.3	25
29	CZH02027	CZL00007/CZL00034/CML312	CIMMYT	Non-QPM	106	15	11	6.5	9	5.8	28	5.1	1
21	CZH02005	CML312/CML442/CZL02004	CIMMYT	Non-QPM	105	15	9	6.5	9	6.9	8	3.5	8
28	CZH02011	CZL99014/CML440/CML312	CIMMYT	Non-QPM	105	15	11	6.9	5	6.4	13	4.5	3
23	CZH02007	CML395/CML444/CZL02006	CIMMYT	Non-QPM	106	15	10	6.0	13	5.5	29	1.8	34
26	CZH02010	CML395/CML444/CZL02009	CIMMYT	Non-QPM	102	17	10	5.3	23	7.6	4	2.9	19
6	PAN31	PAN31	PANNAR	Non-QPM	101	19	12	5.8	16	6.1	20	1.8	33
5	PAN6479	PAN6479	PANNAR	Non-QPM	101	19	11	6.1	10	6.4	12	2.8	16
10	MM502N	MM502N	ZAMSEED	Non-QPM	97	19	10	5.2	23	6.1	21	2.1	28
9	SC513	SC513	SEED-CO	Non-QPM	95	19	11	4.9	27	7.0	7	2.1	27
35	Local Check1	Various	Various	Non-QPM	98	21	11	6.1	14	6.8	10	4.6	2
31	CZH02012	CML144/CML159/CZL02010	CIMMYT	QPM	84	26	8	5.5	18	5.3	31	3.5	9
Maturity group average					103	17	10	6.0	13	6.5	15	3.2	15
Mean					100	19	10	5.5	19	5.3		2.8	
LSD (0.05)								0.8		2.5		1.7	
p										ns			
Min					84	11	8	4.4	5	4.7		1.0	
Max					113	26	12	7.0	31	9.9		5.1	
NumSignificantSites					39	39	39	4		0		1	

EHYB03: Results of evaluation of early to intermediate maturing hybrids from AREX, CIMMYT, Monsanto, Pannar, SeedCo, and Zamseed across 56 sites in eastern and southern Africa, 2002/03.

Table 5D

Entry	Name	Across			Mid Altitudes Eastern Africa - Grain Yields						Mid Alt Humid Warm (Zone A) - Grain Yields					
		Rel GY	Rank		Serere Uga		Bungoma Ken		Melkasa Eth		Across		Greytown RSA		Zamseed_Farm	
		%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 61 - 65 days																
24	CZH02008	103	18	10	4.9	27	5.4	17	9.3	5	4.6	18	5.8	26	4.7	28
1	983WH17	93	23	9	5.4	19	3.7	36	7.8	27	4.2	25	5.8	25	4.7	27
3	953WH141	92	23	10	4.5	31	5.0	28	7.8	28	4.2	23	6.1	21	4.2	32
	Maturity group average	98	20	10	5.1	23	4.6	27	8.6	16	4.3	21	5.8	26	4.7	28
Entries with anthesis date between 66 - 69 days																
11	CZH00007	108	13	9	5.7	14	6.2	9	8.5	15	4.8	14	7.7	3	5.8	13
18	CZH02002	108	14	8	4.9	28	7.1	4	9.0	10	4.6	17	6.6	16	5.8	15
12	CZH00012	106	14	9	5.6	15	5.8	14	8.6	14	4.6	16	5.1	31	6.2	10
14	CZH01005	108	15	10	6.1	10	4.9	29	8.1	20	4.3	21	5.6	28	5.2	24
25	CZH02009	105	16	8	5.1	24	5.1	23	9.1	9	4.8	14	6.6	17	5.4	21
20	CZH02004	103	17	10	6.2	9	4.5	32	8.5	16	4.6	18	6.3	18	5.8	17
22	CZH02006	100	17	9	5.9	12	5.3	20	9.3	6	4.7	16	5.9	24	6.2	9
27	CZH01002	100	19	9	5.5	17	5.1	25	7.9	25	4.7	16	6.1	22	3.9	35
7	SC403	97	19	10	3.2	36	4.9	30	8.8	12	4.6	17	6.0	23	5.1	25
8	SC407	96	19	10	5.1	25	5.2	21	7.7	30	4.4	18	5.5	29	3.1	36
17	CZH02001	102	20	11	4.4	32	5.1	24	7.8	26	4.3	20	5.4	30	5.8	14
2	983WH78	96	21	10	4.5	30	4.3	33	8.6	13	4.4	20	6.6	15	4.0	34
4	DK8031	94	21	9	5.3	21	4.8	31	8.3	18	4.4	23	6.2	19	5.1	26
33	CZH02014	94	24	9	5.4	18	4.1	35	7.5	32	3.9	26	4.9	32	5.3	22
34	CZH02015	90	24	10	5.1	23	4.2	34	6.4	36	4.1	26	4.8	33	6.1	11
36	Local Check2	88	25	11	3.8	35	5.1	22	7.1	34	4.3	24	7.9	1	4.1	33
32	CZH02013	87	26	9	4.4	33	5.3	18	7.7	31	3.9	27	4.3	34	6.4	6
30	CZH01033	88	26	8	6.1	11	5.1	26	7.5	33	3.8	28	4.1	35	5.6	19
	Maturity group average	98	20	9	5.1	22	5.1	24	8.1	21	4.4	20	5.9	23	5.3	21
Entries with anthesis date > 69 days																
16	CZH01008	113	11	9	6.7	4	7.0	5	9.4	3	5.5	7	6.9	11	7.2	2
15	CZH01006	111	12	9	6.3	7	8.6	1	8.9	11	5.2	10	7.4	7	7.4	1
13	CZH00013	109	12	8	7.8	1	6.9	7	9.3	7	5.0	12	7.0	10	6.5	4
19	CZH02003	108	14	8	5.4	20	6.5	8	8.0	24	4.8	16	6.7	14	6.3	8
29	CZH02027	106	15	11	6.5	5	6.1	10	8.5	17	4.7	17	7.7	4	5.7	18
21	CZH02005	105	15	9	6.4	6	7.7	2	8.2	19	4.9	15	6.9	12	6.5	5
28	CZH02011	105	15	11	6.8	3	7.0	6	9.1	8	5.0	15	5.8	27	6.7	3
23	CZH02007	106	15	10	6.8	2	5.8	13	9.5	2	4.9	13	7.4	8	6.0	12
26	CZH02010	102	17	10	5.1	22	5.0	27	8.0	23	4.6	15	7.4	6	5.5	20
6	PAN31	101	19	12	5.9	13	5.7	15	9.6	1	4.6	22	7.5	5	4.5	30
5	PAN6479	101	19	11	6.2	8	6.0	12	9.3	4	4.7	19	7.2	9	4.4	31
10	MM502N	97	19	10	4.7	29	6.0	11	8.1	22	4.8	14	6.2	20	6.4	7
9	SC513	95	19	11	4.4	34	5.3	19	7.8	29	4.3	23	6.7	13	4.5	29
35	Local Check1	98	21	11	5.5	16	7.2	3	6.9	35	4.6	18	7.9	2	5.3	23
31	CZH02012	84	26	8	4.9	26	5.5	16	8.1	21	3.9	27	3.8	36	5.8	16
	Maturity group average	103	17	10	6.0	13	6.4	10	8.6	15	4.8	16	6.8	12	5.9	14
Mean		100	19	10	5.5		5.6		8.3		4.5	19	6.3		5.5	
LSD (0.05)					1.5		1.7		1.1		0.3		0.8		1.2	
p					***		***		***				***		***	
Min		84	11	8	3.2		3.7		6.4		3.8	7	3.6		3.1	
Max		113	26	12	7.8		8.6		9.6		5.5	28	7.9		7.4	
NumSignificantSites		39	39	39	1		1		1		12		1		1	

EHYB03: Results of evaluation of early to intermediate maturing hybrids from AREX, CIMMYT, Monsanto, Pannar, SeedCo, and Zamseed across 56 sites in eastern and southern Africa, 2002/03.

Table 5E

Entry	Name	Across			Mid Alt Humid Warm (Zone A) - Grain Yields											
		Rel GY	Rank		Chisamba Zam		Mbulumbulu Tan		Ukiriguru Tan		ART_Farm Zim		Marondera Zim		Rattray_Farm Zim	
		%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 61 - 65 days																
24	CZH02008	103	18	10	3.1	17	5.4	8	2.0	27	10.4	9	1.1	13	0.9	8
1	983WH17	93	23	9	2.5	33	5.0	18	1.6	34	8.6	23	0.9	26	0.6	36
3	953WH141	92	23	10	2.5	31	3.8	36	1.8	30	8.7	21	1.0	19	0.7	29
	Maturity group average	98	20	10	2.8	25	5.2	13	1.8	31	9.5	16	1.0	20	0.8	22
Entries with anthesis date between 66 - 69 days																
11	CZH00007	108	13	9	2.7	29	5.7	5	2.4	14	8.9	19	1.8	1	0.8	17
18	CZH02002	108	14	8	3.1	18	5.5	7	2.5	9	8.1	27	1.3	5	0.8	23
12	CZH00012	106	14	9	3.5	8	5.1	17	2.3	20	7.7	30	1.2	9	0.8	20
14	CZH01005	108	15	10	2.8	27	4.7	25	2.4	17	8.2	26	1.3	6	0.9	9
25	CZH02009	105	16	8	3.2	16	5.0	19	2.9	2	10.3	10	0.8	30	0.9	14
20	CZH02004	103	17	10	2.9	25	4.9	21	2.3	18	9.6	16	0.9	22	0.3	18
22	CZH02006	100	17	9	2.2	36	5.3	10	2.4	15	10.4	7	0.9	25	0.9	11
27	CZH01002	100	19	9	3.1	19	4.7	26	2.7	3	11.1	3	1.2	8	0.7	27
7	SC403	97	19	10	3.1	21	4.5	31	2.5	8	9.6	12	0.5	36	0.9	5
8	SC407	96	19	10	3.5	9	5.3	13	2.3	19	8.4	25	1.0	18	0.9	3
17	CZH02001	102	20	11	3.5	5	4.6	29	2.6	4	7.3	33	1.1	15	0.8	25
2	983WH78	96	21	10	3.1	20	4.8	24	2.0	25	8.4	24	1.2	7	0.8	19
4	DK8031	94	21	9	3.3	13	4.2	34	2.1	24	9.3	17	1.4	4	0.7	33
33	CZH02014	94	24	9	2.9	24	5.4	9	1.9	28	6.3	34	1.0	16	0.7	26
34	CZH02015	90	24	10	2.6	30	4.4	32	2.4	11	8.0	28	0.9	21	0.7	31
36	Local Check2	88	25	11	3.5	10	4.0	35	1.5	36	9.6	13	0.9	24	0.7	28
32	CZH02013	87	26	9	2.5	32	4.6	27	1.8	32	5.5	36	1.1	12	0.7	35
30	CZH01033	88	26	8	2.3	35	4.9	20	2.2	23	5.6	35	0.8	32	0.7	30
	Maturity group average	98	20	9	3.0	21	4.9	21	2.3	17	8.5	22	1.1	16	0.8	21
Entries with anthesis date > 69 days																
16	CZH01008	113	11	9	3.9	2	6.5	1	2.2	22	11.4	2	0.8	31	0.9	10
15	CZH01006	111	12	9	3.5	7	5.8	3	2.6	7	10.4	8	1.1	14	0.9	7
13	CZH00013	109	12	8	3.5	6	6.0	2	2.5	10	9.6	15	1.2	10	0.9	12
19	CZH02003	108	14	8	3.9	3	5.3	12	2.6	5	9.0	18	0.8	29	0.8	22
29	CZH02027	106	15	11	3.3	12	5.6	6	2.2	21	9.6	14	0.8	27	1.1	1
21	CZH02005	105	15	9	2.8	26	5.3	11	2.4	16	10.7	4	0.7	34	0.9	6
28	CZH02011	105	15	11	3.3	15	5.1	16	2.0	26	11.8	1	0.9	23	0.9	13
23	CZH02007	106	15	10	4.3	1	4.6	28	2.4	13	8.6	22	1.5	3	0.9	4
26	CZH02010	102	17	10	3.3	14	5.7	4	2.6	6	7.4	32	0.8	28	1.0	2
6	PAN31	101	19	12	2.3	34	4.3	33	1.8	33	10.6	6	0.7	33	0.7	34
5	PAN6479	101	19	11	3.0	23	4.8	22	1.9	29	10.6	5	1.6	2	0.7	32
10	MM502N	97	19	10	3.8	4	5.1	15	3.0	1	9.9	11	1.1	11	0.8	16
9	SC513	95	19	11	2.8	28	5.2	14	2.4	12	7.7	29	0.7	35	0.8	24
35	Local Check1	98	21	11	3.0	22	4.5	30	1.6	35	8.7	20	1.0	17	0.8	15
31	CZH02012	84	26	8	3.3	11	4.8	23	1.8	31	7.4	31	1.0	20	0.8	21
	Maturity group average	103	17	10	3.3	14	5.2	15	2.3	13	9.6	15	1.0	21	0.9	15
Mean		100	19	10	3.1		5.0		2.2		9.0		1.0		0.8	
LSD (0.05)					0.9		1.1		0.8		2.1		0.8		0.7	
p					*		**		**		***		ns		***	
Min		84	11	8	2.2		3.8		1.5		5.5		0.5		0.6	
Max		113	26	12	4.3		5.5		3.0		11.8		1.8		1.1	
NumSignificantSites		39	39	39	1		1		1		1		0		1	

ElHYB03: Results of evaluation of early to intermediate maturing hybrids from AREX, CIMMYT, Monsanto, Pannar, SeedCo, and Zamseed across 56 sites in eastern and southern Africa, 2002/03.

Table 5F

Entry Name	Across			Mid Aft Humid Warm (Zone A) - Grain Yields											
	Rel GY	Rank		Mt_Makulu Zam		Golden_Valley Zam		Maseru Les		Harare Zim		Marondera Zim		Marondera Zim	
	%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 61 - 65 days															
24 CZH02008	103	18	10	7.5	21	8.8	28	2.8	3	2.7	9	0.9	28	1.2	1
1 983WH17	93	23	9	7.1	28	8.4	32	2.4	6	2.9	5	0.7	32	0.7	20
3 953WH141	92	23	10	7.5	22	9.0	23	2.6	5	2.7	11	1.3	14	0.8	13
Maturity group average	98	20	10	7.3	25	8.6	30	2.6	5	2.8	7	0.8	30	0.9	11
Entries with anthesis date between 66 - 69 days															
11 CZH00007	108	13	9	8.7	7	9.4	17	1.5	29	2.8	7	1.7	2	0.8	17
18 CZH02002	108	14	8	7.9	17	8.9	26	2.2	11	2.6	14	1.2	19	0.6	25
12 CZH00012	106	14	9	8.2	14	10.0	9	2.2	10	2.9	4	1.3	13	0.3	35
14 CZH01005	108	15	10	6.4	35	9.4	16	1.8	24	2.6	13	1.6	3	0.7	18
25 CZH02009	105	16	8	8.3	8	8.7	30	2.0	18	2.7	10	1.6	5	0.5	26
20 CZH02004	103	17	10	7.3	25	8.9	27	2.3	8	2.6	15	1.3	12	0.6	23
22 CZH02006	100	17	9	8.3	11	9.2	19	2.2	12	2.5	18	1.3	16	0.8	16
27 CZH01002	100	19	9	8.2	12	8.8	29	2.3	7	2.8	8	1.5	6	0.9	5
7 SC403	97	19	10	7.7	19	9.6	12	2.1	14	2.5	19	1.2	20	0.9	7
8 SC407	96	19	10	8.1	15	10.4	5	1.5	28	2.4	23	1.5	9	0.6	22
17 CZH02001	102	20	11	6.9	31	8.9	25	2.2	9	2.9	3	0.7	33	0.8	10
2 983WH78	96	21	10	7.5	24	10.1	7	2.1	13	2.4	24	1.3	11	0.3	36
4 DK8031	94	21	9	7.5	20	9.8	10	1.7	25	2.4	22	0.8	30	0.8	14
33 CZH02014	94	24	9	6.5	34	8.2	33	1.8	23	2.3	25	0.9	25	0.4	31
34 CZH02015	90	24	10	7.1	29	7.6	36	2.1	15	2.2	27	0.9	27	0.7	19
36 Local Check2	88	25	11	6.9	32	7.6	35	1.9	21	2.4	21	1.0	24	0.3	34
32 CZH02013	87	26	9	8.1	16	8.6	31	1.9	22	1.5	36	1.3	15	0.4	31
30 CZH01033	88	26	8	6.8	33	8.2	34	2.1	16	2.1	28	0.9	26	0.4	28
Maturity group average	98	20	9	7.6	21	9.0	22	2.0	17	2.5	18	1.2	16	0.6	22
Entries with anthesis date > 69 days															
16 CZH01008	113	11	9	10.4	1	10.6	3	2.0	19	3.0	2	1.5	8	1.0	4
15 CZH01006	111	12	9	9.2	3	10.9	2	1.1	34	2.6	17	1.1	22	1.0	2
13 CZH00013	109	12	8	9.0	4	10.4	6	1.0	35	2.7	12	1.0	23	0.9	6
19 CZH02003	108	14	8	8.3	9	9.4	18	1.6	26	2.4	20	0.8	31	0.9	8
29 CZH02027	106	15	11	8.3	10	9.2	20	1.3	32	1.9	33	0.8	29	0.8	11
21 CZH02005	105	15	9	8.9	5	9.8	11	1.9	20	2.1	31	0.3	35	0.4	29
28 CZH02011	105	15	11	9.7	2	10.0	8	1.3	33	2.1	29	1.6	4	1.0	3
23 CZH02007	106	15	10	8.8	6	9.2	21	1.4	30	3.3	1	1.5	8	0.7	21
26 CZH02010	102	17	10	7.9	18	9.1	22	0.9	36	2.8	6	1.5	10	0.8	15
6 PAN31	101	19	12	6.3	36	11.1	1	2.8	2	2.1	30	1.2	21	0.6	24
5 PAN6479	101	19	11	7.3	26	9.5	13	2.6	4	2.0	32	1.8	1	0.9	9
10 MM502N	97	19	10	8.2	13	9.5	14	2.0	17	1.9	34	1.2	18	0.5	27
9 SC513	95	19	11	7.2	27	10.4	4	1.4	31	2.3	26	0.4	34	0.3	33
35 Local Check1	98	21	11	7.5	23	9.5	15	3.0	1	2.6	16	1.3	17	0.8	13
31 CZH02012	84	26	8	6.9	30	9.0	24	1.5	27	1.6	35	0.3	36	0.4	32
Maturity group average	103	17	10	8.3	14	9.8	12	1.7	23	2.4	22	1.1	20	0.7	16
Mean	100	19	10	7.8		9.1		1.9		2.5		1.1		0.7	
LSD (0.05)				1.6		1.2		1.0		0.7		0.7		0.7	
p				**		***		*		**		**		ns	
Min	84	11	8	6.3		7.6		0.9		1.5		0.3		0.3	
Max	113	26	12	10.4		11.1		3.0		3.3		1.8		1.2	
NumSignificantSites	39	39	39	1		1		1		1		1		0	

ElHYB03: Results of evaluation of early to intermediate maturing hybrids from AREX, CIMMYT, Monsanto, Pannar, SeedCo, and Zamseed across 56 sites in eastern and southern Africa, 2002/03.

Table 5G

Entry	Name	Across			Mid Alt Humid Hot (Zone B) - Grain Yields								Mid Alt Dry (Zone C) - Grain Yields			
		Ref GY	Rank		Across		Mazozo Ang		Chitola Mal		Sussundenga Moz		Across		Potchefstroom RSA	
			%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha
Entries with anthesis date between 61 - 65 days																
24	CZH02008	103	18	10	3.7	32	4.7	1	5.1	28	2.2	35	2.7	15	3.8	11
1	983WH17	93	23	9	3.5	34	2.8	30	4.4	35	2.5	33	2.4	17	3.2	27
3	953WH141	92	23	10	3.6	29	2.6	33	4.1	36	3.2	22	2.0	24	3.1	29
	Maturity group average	98	20	10	3.6	33	3.8	16	4.8	32	2.4	34	2.4	16	3.5	19
Entries with anthesis date between 66 - 69 days																
11	CZH00007	108	13	9	4.9	12	2.8	29	6.2	6	3.5	18	2.5	12	3.6	15
18	CZH02002	108	14	8	4.8	11	3.7	8	5.7	16	4.0	6	2.7	11	3.9	7
12	CZH00012	106	14	9	4.4	19	3.5	12	6.4	3	2.5	34	2.7	11	4.2	4
14	CZH01005	108	15	10	5.0	8	3.3	15	6.2	7	3.9	9	2.3	16	3.4	17
25	CZH02009	105	16	8	4.8	13	2.7	32	6.0	10	3.6	16	2.4	20	3.2	28
20	CZH02004	103	17	10	5.1	10	3.7	7	6.7	1	3.5	19	2.5	18	3.4	20
22	CZH02006	100	17	9	4.4	20	3.3	19	5.7	15	3.0	25	2.4	21	3.8	10
27	CZH01002	100	19	9	4.2	24	3.2	21	4.7	33	3.7	14	2.3	19	3.3	25
7	SC403	97	19	10	4.9	12	3.4	14	5.3	22	4.6	1	2.4	19	3.0	30
8	SC407	96	19	10	4.5	19	4.3	3	5.3	23	3.7	15	2.3	21	3.3	22
17	CZH02001	102	20	11	4.0	29	3.4	13	5.1	30	2.9	28	2.1	24	3.3	23
2	983WH78	96	21	10	4.2	21	4.5	2	4.5	34	4.0	7	2.3	15	3.3	24
4	DK8031	94	21	9	4.9	11	3.5	11	6.0	11	3.9	10	2.4	21	2.6	33
33	CZH02014	94	24	9	4.2	24	3.3	16	5.3	21	3.0	26	2.3	21	3.9	8
34	CZH02015	90	24	10	4.3	22	2.9	28	4.8	32	3.8	12	2.3	21	2.4	36
36	Local Check2	88	25	11	4.4	20	1.7	36	6.1	9	2.8	30	2.3	22	3.9	9
32	CZH02013	87	26	9	4.1	27	2.5	34	5.2	26	3.0	27	2.2	22	2.6	34
30	CZH01033	88	26	8	3.5	34	3.3	20	4.9	31	2.1	36	2.2	24	2.4	35
	Maturity group average	98	20	9	4.5	18	3.3	18	5.6	18	3.4	19	2.4	19	3.3	21
Entries with anthesis date > 69 days																
16	CZH01008	113	11	9	5.1	6	4.1	5	6.3	4	3.9	8	2.7	15	3.7	14
15	CZH01006	111	12	9	5.1	8	3.6	10	6.0	12	4.3	3	2.6	15	3.8	12
13	CZH00013	109	12	8	4.5	18	4.1	4	5.2	25	3.8	11	2.8	12	4.0	6
19	CZH02003	108	14	8	4.9	12	3.6	9	5.6	18	4.1	5	2.5	15	3.8	13
29	CZH02027	106	15	11	4.1	26	2.8	31	5.6	19	2.6	32	2.8	17	4.5	2
21	CZH02005	105	15	9	4.6	17	3.3	18	5.6	17	3.6	17	2.5	17	3.4	19
28	CZH02011	105	15	11	4.8	13	3.1	22	6.5	2	3.1	24	2.8	14	4.4	3
23	CZH02007	106	15	10	4.3	20	2.9	26	5.4	20	3.3	20	2.2	21	3.4	18
26	CZH02010	102	17	10	4.8	14	2.9	25	5.8	14	3.7	13	2.4	20	3.4	21
6	PAN31	101	19	12	5.3	5	3.3	17	6.1	8	4.4	2	2.3	21	3.5	16
5	PAN6479	101	19	11	4.5	18	3.1	23	6.0	13	3.1	23	2.6	20	5.1	1
10	MM502N	97	19	10	4.2	24	2.9	27	5.2	27	3.2	21	2.4	21	2.9	32
9	SC513	95	19	11	5.2	5	4.0	6	6.2	5	4.1	4	2.6	15	4.0	5
35	Local Check1	98	21	11	4.1	27	1.9	35	5.3	24	2.8	29	2.1	23	3.2	26
31	CZH02012	84	26	8	3.9	30	3.0	24	5.1	29	2.7	31	2.2	27	3.0	31
	Maturity group average	103	17	10	4.6	16	3.3	19	5.7	16	3.5	16	2.5	18	3.7	15
	Mean	100	19	10	4.4	19	3.3	.	5.5	.	3.4	.	2.4	18	3.5	.
	LSD (0.05)				0.9		1.5	.	1.2	.	1.2	.	0.3		0.9	.
	P						ns		*		*				***	
	Min	84	11	8	3.5	5	1.7	.	4.1	.	2.1	.	2.0	11	2.4	.
	Max	113	26	12	5.3	34	4.7	.	6.7	.	4.6	.	2.8	27	5.1	.
	NumSignificantSites	39	39	39	2		0		1		1		7		1	

EHYB03: Results of evaluation of early to intermediate maturing hybrids from AREX, CIMMYT, Monsanto, Pannar, SeedCo, and Zamseed across 56 sites in eastern and southern Africa, 2002/03.

Table 5H

Entry	Name	Across			Mid Alt Dry (Zone C) - Grain Yields											
		Rel GY	Rank		Pelotsheltha Bot		Arusha Tan		Makoholi Zim		Kadoma Zim		Umbeluzi Moz		Kadoma Zim	
		%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 61 - 65 days																
24	CZH02008	103	18	10	0.9	19	1.1	36	1.6	17	5.6	1	5.6	11	0.8	17
1	983WH17	93	23	9	1.3	4	1.8	8	1.5	22	4.2	16	5.4	14	0.8	25
3	953WH141	92	23	10	0.6	26	1.2	33	1.9	5	3.1	36	3.6	35	0.8	23
	Maturity group average	98	20	10	1.1	12	1.5	22	1.6	20	4.9	9	5.5	13	0.8	21
Entries with anthesis date between 66 - 69 days																
11	CZH00007	108	13	9	1.1	8	1.9	6	1.7	12	4.4	13	5.2	16	0.9	14
18	CZH02002	108	14	8	1.1	9	1.9	5	2.3	2	3.9	25	5.6	12	0.8	24
12	CZH00012	106	14	9	0.9	17	1.6	18	2.0	4	4.9	5	5.2	17	0.9	16
14	CZH01005	108	15	10	1.0	13	1.5	20	2.0	9	4.1	18	3.9	32	0.8	19
25	CZH02009	105	16	8	0.9	15	2.0	3	1.6	31	4.6	8	4.7	25	0.8	27
20	CZH02004	103	17	10	0.6	31	1.6	15	2.3	1	4.5	10	5.5	13	0.8	18
22	CZH02006	100	17	9	1.1	7	1.2	32	1.3	36	3.8	28	5.2	18	0.8	21
27	CZH01002	100	19	9	1.1	12	2.1	2	1.7	16	4.2	15	4.1	30	0.8	29
7	SC403	97	19	10	0.9	16	1.7	11	1.8	11	4.0	23	5.3	15	0.9	15
8	SC407	96	19	10	0.6	30	1.9	4	1.8	10	3.5	30	5.1	19	1.0	6
17	CZH02001	102	20	11	1.3	3	1.4	25	1.7	24	3.3	33	3.6	36	0.7	32
2	983WH78	96	21	10	1.2	5	2.5	1	2.3	6	3.3	32	4.5	26	1.0	7
4	DK8031	94	21	9	0.9	14	1.3	28	1.5	30	4.1	19	6.0	5	0.8	22
33	CZH02014	94	24	9	1.3	1	1.4	27	1.8	29	4.5	11	3.7	34	0.7	30
34	CZH02015	90	24	10	1.3	2	1.7	12	1.7	21	5.0	3	4.4	27	0.7	34
36	Local Check2	88	25	11	0.6	29	1.2	31	1.6	28	3.9	24	4.4	28	1.0	3
32	CZH02013	87	26	9	0.9	18	1.8	7	1.8	14	4.4	12	4.0	31	0.7	33
30	CZH01033	88	26	8	0.8	22	1.7	13	1.8	19	4.1	17	4.8	21	0.8	28
	Maturity group average	98	20	9	1.0	14	1.7	14	1.8	17	4.1	18	4.7	23	0.8	21
Entries with anthesis date > 69 days																
16	CZH01008	113	11	9	0.6	32	1.2	35	2.2	15	4.9	6	6.0	6	1.0	2
15	CZH01006	111	12	9	0.6	27	1.2	29	1.9	26	4.0	21	6.2	4	0.9	13
13	CZH00013	109	12	8	1.1	11	1.7	10	1.9	14	4.4	14	6.6	1	0.8	20
19	CZH02003	108	14	8	1.1	6	1.6	16	2.1	3	4.5	9	4.7	24	0.8	27
29	CZH02027	106	15	11	0.4	35	1.2	30	1.8	27	5.0	4	6.3	3	0.9	12
21	CZH02005	105	15	9	0.6	28	1.5	19	1.8	25	5.1	2	5.1	20	0.9	11
28	CZH02011	105	15	11	0.8	21	1.2	34	1.7	34	4.8	7	5.9	8	1.0	5
23	CZH02007	106	15	10	1.1	10	1.7	14	1.8	20	3.9	26	3.8	33	0.7	31
26	CZH02010	102	17	10	0.8	23	1.8	9	2.2	7	3.8	27	4.8	23	0.6	35
6	PAN31	101	19	12	0.8	24	1.4	24	1.5	33	3.2	34	5.7	9	1.0	4
5	PAN6479	101	19	11	0.9	20	1.4	23	1.7	32	3.4	31	5.7	10	1.0	8
10	MM502N	97	19	10	0.4	36	1.6	17	1.8	24	3.5	29	6.3	2	1.0	10
9	SC513	95	19	11	0.6	33	1.5	21	1.8	18	4.0	22	5.9	7	1.0	1
35	Local Check1	98	21	11	0.7	25	1.4	26	2.0	9	3.1	35	4.2	29	1.0	9
31	CZH02012	84	26	8	0.6	34	1.5	22	1.5	35	4.1	20	4.8	22	0.6	36
	Maturity group average	103	17	10	0.7	24	1.5	22	1.9	21	4.1	19	5.5	13	0.9	15
Mean		109	19	10	0.9		1.6		1.8		4.1		5.0		0.8	
LSD (0.05)					0.5		0.8		0.5		1.2		1.4		0.2	
n					*		ns		*		*		***		***	
Min		84	11	8	0.4		1.1		1.3		3.1		3.6		0.6	
Max		113	12	12	1.3		2.5		2.3		5.8		6.6		1.0	
NumSignificantSites		39	39	39	7		0		1		1		1		1	

EHYB03: Results of evaluation of early to intermediate maturing hybrids from AREG, CIMMYT, Monsanto, Pannar, SeedCo, and Zamseed across 56 sites in eastern and southern Africa, 2002/03.

Table 51

Entry Name	Across			Zone C - Grain Yields				Lowland Trop Humid (Zone D) - Grain Yields							
	Rel GY	Rank		Baka Mal		Makoholi Zim		Across		Cabinda Ang		Cabinda Ang		Ilonga Tan	
	%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 61 - 65 days															
24 CZH02008	103	18	10	4.2	21	0.6	27	0.7	15	0.7	15	0.5	22	1.5	21
1 983WH17	93	23	9	3.1	33	0.7	10	0.7	12	0.7	12	0.5	12	0.9	35
3 953WH141	92	23	10	2.9	35	0.7	11	1.0	4	1.0	4	0.5	21	1.1	33
Maturity group average	98	20	10	3.7	27	0.6	19	0.8	14	0.7	14	0.5	17	1.2	28
Entries with anthesis date between 66 - 69 days															
11 CZH00007	108	13	9	5.3	5	0.8	9	1.0	3	1.0	3	0.6	3	1.7	12
18 CZH02002	108	14	8	4.0	23	1.0	1	0.8	7	0.8	7	0.4	27	2.0	5
12 CZH00012	106	14	9	5.5	2	0.7	16	0.6	18	0.6	18	0.5	15	1.6	18
14 CZH01005	108	15	10	4.6	15	0.9	2	0.8	5	0.8	5	0.6	5	1.9	7
25 CZH02009	105	16	8	3.6	29	0.8	8	0.7	13	0.7	13	0.6	9	1.9	8
20 CZH02004	103	17	10	3.7	28	0.5	34	0.6	16	0.6	16	0.4	28	1.6	17
22 CZH02006	100	17	9	4.9	8	0.5	30	0.5	26	0.5	26	0.6	7	1.5	22
27 CZH01002	100	19	9	3.8	27	0.8	7	0.4	32	0.4	32	0.5	20	1.4	24
7 SC403	97	19	10	3.2	32	0.6	23	0.4	30	0.4	30	0.5	13	2.1	1
8 SC407	96	19	10	2.9	34	0.5	32	0.4	28	0.4	28	0.5	17	2.1	2
17 CZH02001	102	20	11	4.7	13	0.7	19	1.2	1	1.2	1	0.3	33	1.7	13
2 983WH78	96	21	10	4.9	11	0.8	5	0.4	31	0.4	31	0.5	14	1.7	10
4 DK8031	94	21	9	5.2	6	0.7	21	0.8	6	0.8	6	0.3	36	1.2	31
33 CZH02014	94	24	9	4.5	17	0.5	35	1.1	2	1.1	2	0.6	8	2.0	6
34 CZH02015	90	24	10	5.3	4	0.6	22	0.6	17	0.6	17	0.6	4	1.6	14
36 Local Check2	88	25	11	4.3	19	0.5	31	0.6	21	0.6	21	0.4	32	1.2	32
32 CZH02013	87	26	9	3.9	25	0.8	13	0.6	19	0.6	19	0.7	2	1.4	25
30 CZH01033	88	26	8	3.4	31	0.6	28	0.5	27	0.5	27	0.5	16	1.2	30
Maturity group average	98	20	9	4.3	18	0.7	19	0.7	17	0.7	17	0.5	16	1.6	15
Entries with anthesis date > 69 days															
16 CZH01008	113	11	9	5.4	3	0.7	29	0.5	25	0.5	25	0.3	35	1.6	16
15 CZH01006	111	12	9	3.9	24	1.0	3	0.7	10	0.7	10	0.3	34	1.2	29
13 CZH00013	109	12	8	5.0	7	0.8	15	0.6	23	0.6	23	0.5	18	2.1	3
19 CZH02003	108	14	8	4.9	10	0.6	26	0.7	9	0.7	9	0.6	6	1.6	15
29 CZH02027	106	15	11	4.3	18	0.5	33	0.4	29	0.4	29	0.5	19	1.3	28
21 CZH02005	105	15	9	4.0	22	0.7	17	0.5	24	0.5	24	0.6	10	1.8	9
28 CZH02011	105	15	11	4.5	16	0.7	20	0.3	35	0.3	35	0.4	30	0.9	36
23 CZH02007	106	15	10	4.3	20	0.8	6	0.8	8	0.8	8	0.4	31	1.4	23
26 CZH02010	102	17	10	4.9	9	1.2	4	0.6	22	0.6	22	0.5	23	2.0	4
6 PAN31	101	19	12	4.6	14	0.6	24	0.7	11	0.7	11	0.4	29	1.3	26
5 PAN6479	101	19	11	3.5	30	0.5	36	0.4	33	0.4	33	0.5	25	1.1	34
10 MM502N	97	19	10	5.8	1	0.8	12	0.2	36	0.2	36	0.4	26	1.5	20
9 SC513	95	19	11	4.7	12	0.7	18	0.3	34	0.3	34	0.5	24	1.5	19
35 Local Check1	98	21	11	3.9	26	0.6	25	0.7	14	0.7	14	0.6	11	1.3	27
31 CZH02012	84	26	8	2.7	36	0.7	14	0.6	20	0.6	20	0.7	1	1.7	11
Maturity group average	103	17	10	4.4	17	0.7	19	0.5	22	0.5	22	0.5	21	1.5	20
Mean	100	19	10	4.3	.	0.7	.	0.6	18	0.6	.	0.5	.	1.5	.
LSD (0.05)				1.8	.	0.3	.	0.4		0.4	.	0.3	.	0.8	.
p				+		*				**		ns		ns	
Min	84	11	8	2.7	.	0.5	.	0.2	1	0.2	.	0.3	.	0.9	.
Max	113	26	12	5.8	.	1.2	.	1.2	36	1.2	.	0.7	.	2.1	.
NumSignificantSites	39	39	39	0	.	1	.	1	.	1	.	0	.	0	.

EHYB03: Results of evaluation of early to intermediate maturing hybrids from AREX, CIMMYT, Monsanto, Pannar, SeedCo, and Zamseed across 56 sites in eastern and southern Africa, 2002/03.

Table 5J

Entry	Name	Across			Zone D - Grain Yields		Lowland Trop Dry (Zone E) - Grain Yields									
		Rel GY		Stdev	Ilonga Tan		Across		Sebele Bot		Goodhope Bot		Arusha Tan		Chiredzi Zim	
		%	Avg		t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 61 - 65 days																
24	CZH02008	103	18	10	2.9	19	3.8	13	0.2	25	2.5	28	2.3	11	1.6	14
1	983WH17	93	23	9	2.4	31	3.3	22	0.3	6	2.5	29	2.5	5	1.4	21
3	953WH141	92	23	10	2.9	20	3.1	26	0.3	10	2.5	30	1.7	26	1.6	12
	Maturity group average	98	20	10	2.6	25	3.4	17	0.3	16	2.5	29	2.4	8	1.5	18
Entries with anthesis date between 66 - 69 days																
11	CZH00007	108	13	9	3.0	7	3.7	14	0.3	5	2.8	24	2.3	10	1.7	10
18	CZH02002	108	14	8	2.5	26	3.9	10	0.1	35	2.3	33	2.7	4	2.0	2
12	CZH00012	106	14	9	2.8	22	3.7	16	0.2	26	3.5	2	1.5	31	1.9	5
14	CZH01005	108	15	10	4.4	1	4.2	11	0.2	22	2.8	25	2.4	7	1.6	11
25	CZH02009	105	16	8	3.5	9	3.6	16	0.6	1	3.0	19	2.4	8	1.7	8
20	CZH02004	103	17	10	2.3	33	4.0	13	0.2	12	2.8	23	2.7	3	1.3	24
22	CZH02006	100	17	9	2.4	28	3.8	15	0.4	2	3.3	3	2.1	19	1.4	19
27	CZH01002	100	19	9	2.2	35	3.4	20	0.3	9	3.2	7	2.1	18	1.6	15
7	SC403	97	19	10	4.0	3	3.2	24	0.3	7	2.9	20	1.1	36	1.4	20
8	SC407	96	19	10	3.2	14	3.7	18	0.2	21	3.0	14	1.6	30	1.3	22
17	CZH02001	102	20	11	3.4	10	3.4	19	0.3	11	3.2	6	2.1	16	2.0	1
2	983WH78	96	21	10	3.1	15	3.6	18	0.2	19	2.6	27	1.7	27	1.6	13
4	DK8031	94	21	9	2.6	24	3.2	23	0.3	8	2.9	21	1.3	34	1.5	17
33	CZH02014	94	24	9	2.1	36	3.4	21	0.2	18	3.0	13	1.8	22	1.5	16
34	CZH02015	90	24	10	2.8	21	3.6	19	0.2	15	3.0	16	1.4	33	1.7	9
36	Local Check2	88	25	11	2.4	32	2.7	33	0.2	30	2.2	34	1.3	35	0.7	34
32	CZH02013	87	26	9	2.5	25	3.3	23	-0.1	36	2.7	26	1.8	23	1.3	25
30	CZH01033	88	26	8	3.0	18	3.8	18	0.2	29	2.4	31	1.7	28	1.1	28
	Maturity group average	98	20	9	3.0	20	3.6	18	0.2	17	2.9	19	1.9	21	1.5	18
Entries with anthesis date > 69 days																
16	CZH01008	113	11	9	4.1	2	3.9	16	0.1	32	3.1	11	2.0	21	1.1	27
15	CZH01006	111	12	9	3.8	8	4.1	12	0.1	34	3.2	8	2.4	9	0.8	33
13	CZH00013	109	12	8	2.7	23	4.0	14	0.3	4	3.2	10	2.3	13	1.0	31
19	CZH02003	108	14	8	3.9	4	3.8	14	0.2	16	3.0	18	2.2	15	1.9	4
29	CZH02027	106	15	11	3.3	12	3.9	10	0.3	3	3.1	12	2.3	12	1.9	3
21	CZH02005	105	15	9	3.4	11	4.0	12	0.2	13	3.0	17	2.5	6	1.3	23
28	CZH02011	105	15	11	3.2	13	3.6	16	0.2	31	3.3	4	1.8	24	1.8	7
23	CZH02007	106	15	10	3.1	17	3.4	20	0.2	27	3.3	5	2.7	2	1.0	30
26	CZH02010	102	17	10	3.8	6	3.4	20	0.2	23	2.9	22	2.1	17	1.8	6
6	PAN31	101	19	12	2.4	30	3.5	20	0.2	20	3.2	9	1.8	25	1.5	18
5	PAN6479	101	19	11	3.1	18	3.2	22	0.2	28	3.5	1	2.8	1	1.1	26
10	MM502N	97	19	10	3.9	5	3.2	25	0.2	24	2.2	35	1.4	32	0.7	36
9	SC513	95	19	11	2.2	34	3.6	20	0.2	17	3.0	15	1.6	29	0.7	35
35	Local Check1	98	21	11	2.5	27	3.1	26	0.2	14	2.0	36	2.0	20	0.9	32
31	CZH02012	84	26	8	2.4	29	3.1	25	0.1	33	2.4	32	2.2	14	1.0	29
	Maturity group average	103	17	10	3.2	16	3.6	18	0.2	21	2.9	16	2.1	16	1.2	23
Mean		100	19	10	3.0		3.6	18	0.2		2.9		2.0		1.4	
LSD (0.05)					1.4		0.5		0.2		0.9		0.6		0.6	
p					+				ns		+		.		**	
Min		84	19	8	2.1		2.7	10	-0.1		2.0		1.1		0.7	
Max		113	26	12	4.4		4.2	33	0.6		3.5		2.8		2.0	
NumSignificantSites		39	39	39	0		5	0		0		1		1		

ElHYB03: Results of evaluation of early to intermediate maturing hybrids from AREX, CIMMYT, Monsanto, Pannar, SeedCo, and Zamseed across 56 sites in eastern and southern Africa, 2002/03.

Table 5K

Entry Name	Across			Lowland Trop Dry (Zone E) - Grain Yields										Highlands (Zone F) - Grain Yields			
	Rel-GY	Rank		Nanga Zam		Chitala Mal		Nampula Moz		Chokwe Moz		Save-Valley Zim		Across		Humpata Ang	
	%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 61 - 65 days																	
24 CZH02008	103	18	10	3.0	36	1.9	9	5.8	3	6.4	2	2.2	8	2.8	19	5.0	30
1 983WH17	93	23	9	4.1	21	1.8	13	3.9	33	4.3	28	1.9	22	2.8	20	5.5	24
3 953WH141	92	23	10	3.7	30	1.8	14	4.4	28	3.8	34	1.7	35	2.8	18	6.3	9
Maturity group average	98	20	10	3.6	29	1.9	11	4.9	18	5.4	15	2.0	15	2.7	19	5.2	27
Entries with anthesis date between 66 - 69 days																	
11 CZH00007	108	13	9	3.7	28	2.3	2	5.5	7	5.1	16	2.0	13	2.7	25	6.9	3
18 CZH02002	108	14	8	4.6	14	2.3	1	4.9	19	5.4	12	2.4	2	3.1	19	6.3	11
12 CZH00012	106	14	9	5.0	11	1.2	32	5.0	17	5.0	17	1.9	25	2.5	25	5.6	23
14 CZH01005	108	15	10	6.1	3	1.4	23	6.7	1	4.0	32	2.2	6	3.3	14	6.1	16
25 CZH02009	105	16	8	4.3	20	1.4	21	4.3	29	5.2	13	2.2	5	3.0	21	5.8	18
20 CZH02004	103	17	10	6.2	2	2.1	6	4.2	30	5.8	8	2.1	11	2.7	17	5.6	22
22 CZH02006	100	17	9	4.0	24	1.3	30	5.5	8	6.2	5	2.3	3	3.1	19	5.8	19
27 CZH01002	100	19	9	4.4	18	1.0	35	5.2	15	3.8	35	2.4	1	2.6	19	5.1	28
7 SC403	97	19	10	3.9	25	1.5	18	4.6	24	5.1	15	2.0	14	3.3	15	6.8	4
8 SC407	96	19	10	4.6	13	1.8	15	4.8	21	6.0	6	1.7	33	3.0	21	6.7	7
17 CZH02001	102	20	11	3.7	31	1.9	10	4.4	27	4.8	21	1.9	20	2.8	15	5.0	31
2 983WH78	96	21	10	5.5	6	2.2	4	5.2	14	4.1	31	2.3	4	2.9	20	5.6	21
4 DK8031	94	21	9	3.1	35	1.8	12	5.6	5	4.7	23	1.9	21	3.2	14	6.7	6
33 CZH02014	94	24	9	4.8	12	1.3	28	4.2	31	4.6	25	1.9	19	2.3	26	4.4	34
34 CZH02015	90	24	10	5.2	9	2.2	3	4.6	26	4.9	19	1.8	26	2.3	21	4.1	36
36 Local Check2	88	25	11	3.7	29	1.5	19	3.7	35	3.8	33	2.2	7	2.6	17	5.0	29
32 CZH02013	87	26	9	5.3	8	1.2	31	3.8	34	4.5	26	2.0	16	2.0	33	4.6	33
30 CZH01033	88	26	8	6.0	4	1.6	17	5.4	11	4.5	18	2.1	9	2.1	31	4.3	35
Maturity group average	98	20	9	4.7	16	1.7	17	4.9	20	4.9	20	2.1	13	2.7	21	5.6	21
Entries with anthesis date > 69 days																	
16 CZH01008	113	11	9	3.6	27	1.3	27	6.3	2	6.3	3	1.9	24	3.6	10	7.9	1
15 CZH01006	111	12	9	5.7	5	1.3	25	5.3	12	6.5	1	2.1	11	2.5	23	6.2	27
13 CZH00013	109	12	8	5.3	7	1.4	24	5.2	13	6.2	4	1.7	34	2.9	17	6.2	14
19 CZH02003	108	14	8	4.3	19	1.3	26	4.9	20	5.6	10	2.0	17	3.3	11	6.3	12
29 CZH02027	106	15	11	4.1	23	1.9	11	5.6	6	5.9	7	1.9	18	3.2	14	6.3	10
21 CZH02005	105	15	9	6.2	1	1.2	33	4.9	18	5.1	14	1.8	29	2.8	16	6.2	13
28 CZH02011	105	15	11	3.4	33	0.9	36	5.7	4	5.6	11	1.7	31	2.7	22	6.6	8
23 CZH02007	106	15	10	4.5	16	1.4	22	4.7	23	4.2	29	1.8	30	2.9	17	5.4	25
26 CZH02010	102	17	10	3.5	32	1.9	8	4.6	25	4.8	20	2.0	13	2.8	19	6.0	17
6 PAN31	101	19	12	3.9	26	1.8	16	5.5	9	4.8	22	1.7	33	3.9	7	7.6	2
5 PAN6479	101	19	11	4.1	22	1.9	7	3.7	36	4.4	27	1.8	28	3.2	12	6.1	15
10 MM502N	97	19	10	4.4	17	1.4	20	5.4	10	4.1	30	2.0	15	2.7	18	5.7	20
9 SC513	95	19	11	5.1	10	2.1	5	5.1	16	5.6	9	1.7	36	3.1	12	6.7	5
35 Local Check1	98	21	11	3.2	34	1.3	29	4.7	22	4.6	24	1.9	23	3.1	12	4.7	32
31 CZH02012	94	26	8	4.6	15	1.0	34	4.1	32	3.6	36	1.8	27	2.4	29	5.3	26
Maturity group average	103	17	10	4.4	19	1.5	22	5.0	17	5.2	16	1.8	25	3.0	16	6.1	15
Mean	100	19	10	4.5		1.6		4.9		5.0		2.0		2.8	18	5.6	
LSD (0.05)				1.8		0.4		1.1		1.0		0.8		0.6		1.5	
p				*		**		**		**		**		**		**	
Min	84	11	8	3.1		0.8		3.7		3.6		1.7		2.0	7	4.1	
Max	113	26	12	6.2		2.3		6.7		6.5		2.4		3.9	33	7.9	
NumSignificantSites	39	38	38	1		0		1		1		0		3		1	

ElIHYB03: Results of evaluation of early to intermediate maturing hybrids from AREX, CIMMYT, Monsanto, Pannar, SeedCo, and Zamseed across 56 sites in eastern and southern Africa, 2002/03.

Table 5L

Entry	Name	Across			Highlands (Zone F) - Grain Yields				N Stress - Grain Yields					
		Rel GY	Rank		Nyakosoba Les		Mahobong Les		Across		Arusha Tan		Mazozo Ang	
		%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 61 - 65 days														
24	CZH02008	103	18	10	0.6	1	2.2	25	2.0	29	2.7	27	2.9	8
1	983WH17	93	23	9	0.2	21	2.7	15	2.5	16	2.9	24	2.4	25
3	953WH141	92	23	10	0.3	11	1.6	33	2.7	12	3.5	10	2.0	35
	Maturity group average	98	20	10	0.4	11	2.4	20	2.4	22	2.8	26	2.7	17
Entries with anthesis date between 66 - 69 days														
11	CZH00007	108	13	9	0.1	36	1.1	36	2.9	9	3.5	13	3.5	2
18	CZH02002	108	14	8	0.1	33	2.9	13	2.8	12	4.0	5	2.8	12
12	CZH00012	106	14	9	0.2	20	1.8	31	3.1	7	4.3	4	2.6	22
14	CZH01005	108	15	10	0.2	22	3.5	3	2.6	14	3.4	16	4.1	1
25	CZH02009	105	16	8	0.1	34	3.0	11	2.6	14	3.4	14	2.8	11
20	CZH02004	103	17	10	0.4	3	2.0	27	3.0	11	4.3	2	2.9	10
22	CZH02006	100	17	9	0.1	32	3.3	5	2.2	21	2.8	25	2.3	30
27	CZH01002	100	19	9	0.3	9	2.3	19	2.4	18	3.0	23	2.7	18
7	SC403	97	19	10	0.2	28	2.9	12	2.1	21	2.3	33	2.2	33
8	SC407	96	19	10	0.1	35	2.2	22	3.3	4	3.9	6	2.7	17
17	CZH02001	102	20	11	0.4	5	3.1	9	2.7	12	3.6	8	2.8	15
2	983WH78	96	21	10	0.2	29	3.0	10	2.0	25	2.3	34	3.2	6
4	DK8031	94	21	9	0.2	23	2.8	14	2.4	23	3.3	19	2.8	16
33	CZH02014	94	24	9	0.2	24	2.3	20	1.9	30	2.5	31	2.3	31
34	CZH02015	90	24	10	0.3	10	2.4	17	2.1	27	2.7	26	2.3	27
36	Local Check2	88	25	11	0.4	4	2.3	18	1.4	34	1.6	36	2.3	28
32	CZH02013	87	26	9	0.2	30	1.3	35	2.1	28	3.1	21	2.5	24
30	CZH01033	88	26	8	0.2	26	1.7	32	1.8	32	2.5	28	2.6	23
	Maturity group average	98	20	9	0.2	22	2.4	19	2.4	19	3.1	19	2.7	18
Entries with anthesis date > 69 days														
16	CZH01008	113	11	9	0.3	12	2.5	16	3.3	5	4.6	1	2.4	26
15	CZH01006	111	12	9	0.3	13	2.0	28	2.5	19	3.4	15	2.9	9
13	CZH00013	109	12	8	0.2	15	2.2	21	2.5	18	3.4	17	3.2	5
19	CZH02003	108	14	8	0.3	14	3.2	7	3.0	6	3.5	9	2.8	14
29	CZH02027	106	15	11	0.2	27	3.2	6	2.5	19	3.8	7	3.0	7
21	CZH02005	105	15	9	0.4	6	2.0	29	2.5	17	3.5	12	2.8	13
28	CZH02011	105	15	11	0.2	25	1.5	34	2.3	23	3.1	20	3.3	4
23	CZH02007	106	15	10	0.2	19	3.2	8	2.7	12	3.3	18	2.7	19
26	CZH02010	102	17	10	0.2	17	2.2	24	3.3	3	4.3	3	2.3	29
6	PAN31	101	19	12	0.2	16	3.7	2	1.9	29	2.5	30	2.3	32
5	PAN6479	101	19	11	0.2	18	3.4	4	2.3	23	3.1	22	2.6	20
10	MM502N	97	19	10	0.3	8	2.1	26	2.0	26	2.5	29	2.6	21
9	SC513	95	19	11	0.3	7	2.2	23	2.8	8	3.5	11	3.5	3
35	Local Check1	98	21	11	0.5	2	4.0	1	1.5	34	2.0	35	1.6	36
31	CZH02012	84	26	8	0.1	31	1.9	30	1.7	34	2.4	32	2.0	34
	Maturity group average	103	17	10	0.3	15	2.6	17	2.5	18	3.3	17	2.7	18
	Mean	100	19	10	0.3	.	2.5	.	2.4	19	3.2	.	2.7	.
	LSD (0.05)				0.2	.	1.2	.	0.7		1.4	.	1.2	.
	p				*		*				**		ns	
	Min	84	11	8	0.1	.	1.1	.	1.4	3	1.6	.	1.6	.
	Max	113	26	12	0.6	.	4.0	.	3.3	34	4.6	.	4.1	.
	NumSignificantSites	39	39	39	1		1		2		1		0	

EIHVB03: Results of evaluation of early to intermediate maturing hybrids from AREX, CIMMYT, Monsanto, Pannar, SeedCo, and Zamseed across 56 sites in eastern and southern Africa, 2002/03.

Table 5M

Entry	Name	Across			N Stress - Grain Yields				Low pH - Grain Yields									
		Rel GT		Rank	Golden Valley Zim		Harare Zim		Across		Marondera Zim		Misamis Zim		Linyangwa Mal		Marondera Zim	
		%	Avg		t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 61 - 65 days																		
24	CZH02008	103	18	10	2.6	30	1.3	30	1.3	22	1.3	1	1.0	32	0.3	20	1.8	11
1	983WH17	93	23	9	2.2	32	2.0	7	1.1	29	0.5	30	0.9	33	0.1	35	1.2	23
3	953WH141	92	23	10	2.9	25	1.8	14	0.8	34	0.7	19	0.7	36	0.2	33	0.9	31
	Maturity group average	98	20	10	2.4	31	1.7	19	1.0	25	0.9	16	0.9	33	0.2	28	1.4	17
Entries with anthesis date between 66 - 69 days																		
11	CZH00007	108	13	9	4.9	1	2.2	4	2.2	2	1.0	8	2.4	1	0.7	9	2.1	2
18	CZH02002	108	14	8	3.5	15	1.6	19	1.8	14	0.8	24	1.4	23	0.3	21	1.8	5
12	CZH00012	106	14	9	3.5	13	1.9	10	1.8	10	0.8	10	1.9	13	0.7	7	1.8	7
14	CZH01005	108	15	10	4.0	4	1.9	11	2.2	3	0.7	16	2.2	5	0.2	29	2.1	1
25	CZH02009	105	16	8	3.3	16	1.8	13	1.7	15	0.8	11	1.9	12	1.1	1	1.4	16
20	CZH02004	103	17	10	3.6	10	1.6	20	1.2	27	0.3	35	1.3	26	0.4	17	1.2	27
22	CZH02006	100	17	9	3.0	20	1.7	17	1.4	19	0.9	9	1.1	28	0.3	26	1.7	10
27	CZH01002	100	19	9	4.0	6	1.9	12	1.3	21	0.5	29	1.6	30	0.6	11	1.6	12
7	SC403	97	19	10	4.0	5	1.9	9	1.4	20	0.5	32	2.0	7	0.3	27	0.7	32
8	SC407	96	19	10	3.7	9	2.6	1	1.2	24	0.6	33	1.7	14	0.2	30	0.7	33
17	CZH02001	102	20	11	4.2	2	1.8	15	1.8	15	1.1	3	2.1	6	0.5	13	1.2	24
2	983WH78	96	21	10	4.1	3	1.8	16	1.4	20	0.8	26	1.6	19	0.5	15	1.2	21
4	DK8031	94	21	9	2.6	29	1.5	26	1.4	21	0.7	21	1.6	17	0.7	8	1.2	25
33	CZH02014	94	24	9	3.0	19	1.4	29	1.5	19	0.7	29	1.4	25	0.1	34	1.5	13
34	CZH02015	90	24	10	2.9	24	1.4	27	0.8	33	0.8	14	1.0	31	0.0	36	0.3	35
36	Local Check2	88	25	11	3.2	17	1.1	32	0.9	27	0.5	31	1.5	18	0.4	18	0.3	36
32	CZH02013	87	26	9	2.0	35	1.1	34	1.1	26	0.6	23	0.8	35	0.3	23	1.5	17
30	CZH01033	88	26	8	2.9	26	1.0	36	1.3	22	0.8	13	1.4	21	0.3	25	1.3	22
	Maturity group average	98	20	9	3.5	14	1.7	18	1.4	19	0.7	20	1.6	19	0.4	19	1.3	19
Entries with anthesis date > 69 days																		
16	CZH01008	113	11	9	2.6	28	2.0	8	1.5	18	0.8	12	1.3	27	0.4	19	1.7	9
15	CZH01006	111	12	9	2.6	31	1.5	23	1.9	8	1.1	4	2.6	6	0.8	6	1.6	8
13	CZH00013	109	12	8	3.1	18	1.7	18	1.9	9	0.9	8	2.3	3	0.5	14	1.5	15
19	CZH02003	108	14	8	3.8	8	2.5	2	1.9	7	0.7	18	2.0	9	0.3	24	1.9	4
29	CZH02027	106	15	11	1.9	36	1.3	31	2.1	4	0.5	28	2.2	4	0.9	2	2.0	3
21	CZH02005	105	15	9	3.5	12	1.6	21	1.4	22	0.8	15	1.7	15	0.9	3	1.2	26
28	CZH02011	105	15	11	2.8	27	1.5	25	1.7	11	0.3	34	1.6	16	0.6	12	1.4	6
23	CZH02007	106	15	10	3.5	14	2.1	6	1.7	13	0.2	36	1.9	11	0.2	31	1.5	14
26	CZH02010	102	17	10	3.9	7	2.3	3	1.0	27	1.2	2	1.5	20	0.3	22	0.5	34
6	PAN31	101	19	12	3.6	11	1.4	28	1.7	13	0.7	17	1.9	10	0.6	5	1.5	16
5	PAN6479	101	19	11	2.9	23	1.5	24	1.4	22	0.9	22	1.4	24	0.8	4	1.4	20
10	MM502N	97	19	10	3.0	21	1.5	22	1.8	14	1.1	5	2.4	2	0.2	32	1.2	25
9	SC513	95	19	11	2.1	33	2.2	5	1.2	26	0.5	27	1.4	22	0.7	16	1.1	29
35	Local Check1	98	21	11	3.0	22	1.1	33	1.1	27	0.6	25	0.9	34	0.2	28	1.4	19
31	CZH02012	84	26	8	2.0	34	1.0	35	1.0	30	1.0	7	1.1	29	0.4	16	0.9	30
	Maturity group average	103	17	10	2.9	22	1.7	19	1.6	17	0.7	17	1.7	16	0.5	15	1.4	17
	Mean	108	19	10	3.2		1.7		1.4	19	0.7		1.6		0.5		1.3	
	LSD (0.05)				1.8		0.6		0.6		0.8		0.8		0.6		0.7	
	P				*		***		**		**		**		n#		***	
	Min	84	11	8	1.9		1.0		0.6	2	0.2		0.7		0.0		0.3	
	Max	113	28	12	4.9		2.6		2.2	34	1.3		2.4		1.1		2.1	
	NumSignificantSites	39	39	39	0		1		2		0		1		0		1	

ElHYB03: Results of evaluation of early to intermediate maturing hybrids from AREX, CIMMYT, Monsanto, Pannar, SeedCo, and Zamseed across 56 sites in eastern and southern Africa, 2002/03. Table 5N

Entry	Name	Across				MSV-Grain Yields			N stress			Zone E		
		Rel GY		Rank	Harare Zim		ASI	Ears/ Plant	Leaf Senes	ASI	Ears/ Plant	Leaf Senes		
		%	Avg		t/ha	Rank	d	#	1-10	d	#	1-10		
Entries with anthesis date between 61 - 65 days														
24	CZH02008	103	18	10	9.6	18	5.7	0.85	5.3	5.1	0.93	2.6		
1	983WH17	93	23	9	8.2	26	2.5	1.00	5.0	1.3	1.03	3.0		
3	953WH141	92	23	10	8.0	28	2.8	0.90	5.0	0.8	1.11	2.7		
	Maturity group average	98	20	10	8.9	22	4.1	0.93	5.2	3.2	0.98	2.8		
Entries with anthesis date between 66 - 69 days														
11	CZH00007	108	13	9	9.6	19	2.8	1.07	6.0	2.3	0.97	2.4		
18	CZH02002	108	14	8	9.1	21	5.9	0.79	5.5	2.7	0.91	2.3		
12	CZH00012	106	14	9	11.5	6	4.0	0.88	5.2	2.8	1.07	2.5		
14	CZH01005	108	15	10	9.9	14	4.0	0.84	5.0	3.5	1.05	2.3		
25	CZH02009	105	16	8	11.6	5	5.8	0.90	4.9	2.3	0.98	2.4		
20	CZH02004	103	17	10	10.8	9	3.8	1.00	5.0	1.8	0.98	2.6		
22	CZH02006	100	17	9	9.7	17	4.9	0.88	5.9	3.2	0.91	2.4		
27	CZH01002	100	19	9	9.7	15	6.2	0.79	5.0	4.5	0.85	2.6		
7	SC403	97	19	10	12.8	1	5.3	0.90	5.1	4.0	0.96	2.6		
8	SC407	96	19	10	9.5	20	3.9	1.06	5.0	3.1	0.85	2.4		
17	CZH02001	102	20	11	8.6	23	4.0	0.89	4.7	2.2	1.07	2.6		
2	983WH78	96	21	10	6.3	34	4.3	0.84	5.0	3.7	0.87	2.4		
4	DK8031	94	21	9	5.3	35	7.0	0.89	5.8	4.0	0.87	2.3		
33	CZH02014	94	24	9	8.7	22	5.6	0.83	5.4	3.0	1.08	3.0		
34	CZH02015	90	24	10	8.6	24	4.5	0.99	4.8	2.0	1.04	2.8		
36	Local Check2	88	25	11	7.1	32	4.1	0.71	5.2	7.1	0.59	2.8		
32	CZH02013	87	26	9	6.7	33	7.4	0.88	4.8	3.4	1.16	2.6		
30	CZH01033	88	26	8	8.1	27	6.0	0.75	5.2	4.0	0.94	2.6		
	Maturity group average	98	20	9	9.1	20	5.0	0.88	5.2	3.3	0.95	2.5		
Entries with anthesis date > 69 days														
16	CZH01008	113	11	9	9.9	13	6.0	0.88	5.9	3.9	0.92	2.5		
15	CZH01006	111	12	9	10.2	12	7.5	0.84	5.2	6.0	0.73	2.4		
13	CZH00013	109	12	8	10.9	7	8.3	0.80	4.5	5.0	0.81	2.5		
19	CZH02003	108	14	8	10.4	10	3.2	0.93	5.3	2.7	1.01	2.3		
29	CZH02027	106	15	11	10.9	8	6.0	0.80	5.9	2.2	0.91	2.3		
21	CZH02005	105	15	9	12.4	2	6.2	0.89	5.6	4.2	0.96	2.5		
28	CZH02011	105	15	11	9.7	17	7.5	0.77	5.6	4.0	1.02	2.5		
23	CZH02007	106	15	10	12.4	3	5.0	0.97	4.6	4.6	0.82	2.4		
26	CZH02010	102	17	10	12.0	4	6.2	0.94	5.2	4.1	0.93	2.2		
6	PAN31	101	19	12	7.8	29	7.1	0.94	4.5	4.0	1.01	2.4		
5	PAN6479	101	19	11	7.2	31	4.6	0.89	5.4	4.2	0.91	2.5		
10	MM502N	97	19	10	10.2	11	6.7	0.93	4.8	5.6	0.68	2.1		
9	SC513	95	19	11	7.8	30	5.3	0.84	4.9	5.0	0.77	2.4		
35	Local Check1	98	21	11	3.1	36	4.5	0.84	4.8	7.1	0.70	2.6		
31	CZH02012	84	26	8	8.3	25	6.8	0.71	5.0	4.6	0.90	2.8		
	Maturity group average	103	17	10	9.5	16	6.1	0.86	5.1	4.5	0.87	2.4		
Mean		100	19	10	9.2	.	5.3	0.88	5.2	3.7	0.93	2.5		
LSD (0.05)					2.8	.	2.1	0.18	0.8	1.7	0.17			
p					***									
Min		84	11	8	3.1	.	2.5	0.71	4.5	0.8	0.59	2.1		
Max		113	26	12	12.8	.	8.3	1.07	6.0	7.1	1.16	3.0		
NumSignificantSites		39	39	39	1	.	2	1	1	4	2	2		

ILHYB03: Results of evaluation of intermediate to late maturing hybrids from CIMMYT, Monsanto, Pannar, Pioneer, Seed Co and Zamseed across 49 sites in eastern and southern Africa, 2002/03.

Table 6C

Entry	Name	Pedigree	Origin	Comments	Across			Mid Altitudes Eastern Africa - Grain Yields					
					Rel GY	Rank		Across		Esko Eth		Namulonge Uga	
					%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 69 - 72 days													
33	CZH01015	CZL00011/CML395/CML312	CIMMYT	Non-QPM	111	18	12	7.6	19	9.2	10	4.1	16
20	98C2890	98C2890	SEED-CO	Non-QPM	103	22	13	7.2	27	8.2	31	2.8	39
25	CZH00025	CML440/CML444/CML445	CIMMYT	Non-QPM	101	23	12	7.2	28	8.6	23	3.3	33
19	SC633	SC633	SEED-CO	Non-QPM	99	24	14	8.7	16	10.4	2	3.1	35
9	PAN47 = PAN5503	PAN47 = PAN5503	PANNAR	Non-QPM	100	24	12	7.5	24	8.3	29	4.1	18
41	CZH99055	CML182/CML175/OBATANPA	CIMMYT	QPM	85	33	13	6.7	33	7.9	35	3.2	34
Maturity group average					100	24	13	7.5	24	8.8	22	3.4	29
Entries with anthesis date between 72 - 74 days													
31	CZH02020	CZL02014/CML197/CZL02015	CIMMYT	Non-QPM	121	14	12	7.4	25	8.3	30	4.1	17
28	CZH00026	CML395/CML444/CML442	CIMMYT	Non-QPM	115	14	10	8.8	12	8.3	28	5.2	4
32	CZH02021	CML442/CML443/CZL02016	CIMMYT	Non-QPM	117	15	11	8.7	12	8.5	26	4.5	7
29	CZH02018	CML197/CML444/CZL02012	CIMMYT	Non-QPM	117	16	12	8.1	18	8.1	34	4.5	8
24	CZH99037	CML395/CML444/CML443	CIMMYT	Non-QPM	113	16	10	7.9	16	9.2	11	4.5	9
10	PAN57	PAN57	PANNAR	Non-QPM	114	18	12	7.4	22	8.6	24	4.4	11
16	PHB30D53	PHB30D53	PIONEER	Non-QPM	107	18	14	8.6	15	10.0	4	2.6	43
21	00C5351	00C5351	SEED-CO	Non-QPM	110	19	13	8.1	17	10.1	3	4.0	20
18	SC713	SC713	SEED-CO	Non-QPM	104	20	15	7.1	27	9.5	6	1.9	47
6	PAN15	PAN15	PANNAR	Non-QPM	106	21	11	8.0	19	9.6	5	3.7	27
7	PAN33	PAN33	PANNAR	Non-QPM	105	22	10	8.0	17	8.8	19	4.2	15
46	CZH02026	CZL00034/CZL00008/CML312	CIMMYT	Non-QPM	105	22	13	6.9	30	8.2	32	4.3	12
13	PHB30H83	PHB30H83	PIONEER	Non-QPM	100	22	14	7.6	23	9.1	13	3.7	24
15	PHB30T47	PHB30T47	PIONEER	Non-QPM	101	23	12	8.1	18	9.3	8	3.7	26
43	CZH02023	CML395/CML444/CZL02018	CIMMYT	Non-QPM	103	24	14	6.7	34	7.0	42	3.7	25
14	PHB30G97	PHB30G97	PIONEER	Non-QPM	98	27	11	6.9	32	8.4	27	2.6	42
11	PAN77	PAN77	PANNAR	Non-QPM	96	27	13	6.2	33	9.4	7	3.4	32
38	CZH01018	CZL00029/CZL99014/CML395	CIMMYT	Non-QPM	93	27	12	7.3	25	9.1	12	2.4	44
12	PHB30R73	PHB30R73	PIONEER	Non-QPM	94	27	12	7.4	24	9.3	9	3.1	36
42	CZH02022	CML395/CML444/CZL02017	CIMMYT	Non-QPM	99	29	13	8.1	38	6.1	46	3.5	30
3	DK8051	DK8051	MONSANTO	Non-QPM	89	32	11	6.7	34	8.5	25	2.1	46
48	LOCAL CHECK 2	Various	Various	Non-QPM	85	33	15	7.5	22	10.6	1	4.2	14
47	LOCAL CHECK 1	Various	Various	Non-QPM	87	33	13	7.5	25	7.8	36	6.2	1
22	MM603N	MM603N	ZAMSEED	Non-QPM	87	33	13	6.3	38	7.7	37	3.7	28
40	CZH99061	CML144/CML159/OBATANPA	CIMMYT	QPM	79	37	11	3.0	42	6.9	44	3.0	38
8	PAN45	PAN45	PANNAR	Non-QPM	72	40	10	1.3	48	5.8	47	1.8	48
23	GV704N	GV704N	ZAMSEED	Non-QPM	72	41	7	5.7	41	6.7	45	3.4	31
Maturity group average					100	25	12	7.2	28	8.5	23	3.6	25
Entries with anthesis date > 74 days													
26	CZH01011	CML444/CML197/CZL00018	CIMMYT	Non-QPM	115	15	11	9.1	13	7.5	40	4.6	6
30	CZH02019	CML444/CML197/CML488	CIMMYT	Non-QPM	114	15	13	9.3	9	9.0	16	4.5	10
37	CZH01017	CZL00029/CML312/CML395	CIMMYT	Non-QPM	109	19	12	7.7	21	7.0	41	4.6	5
35	CZH99021	CML395/CML202/CML312	CIMMYT	Non-QPM	106	19	14	8.3	14	8.8	26	4.3	13
34	CZH01020	CZL01004/CML238/CML312	CIMMYT	Non-QPM	108	20	11	8.0	19	8.6	22	5.4	3
27	CZH01012	CML312/CML442/CML395/CML444	CIMMYT	Non-QPM	104	21	12	7.8	21	8.7	21	3.6	29
36	CZH99030	CML395/CML238/CML312	CIMMYT	Non-QPM	102	22	13	8.2	15	8.8	18	5.5	2
2	GV659 = B41/L12	GV659 = B41/L12	ZAMBIA	Non-QPM	99	24	14	8.3	18	8.8	17	2.6	41
44	CZH02024	CZL99013/CZL99005/CML202	CIMMYT	Non-QPM	100	25	11	6.7	34	7.6	39	3.0	37
1	GV640 = B40/L917	GV640 = B40/L917	ZAMBIA	Non-QPM	100	25	14	7.7	23	8.1	33	3.6	23
45	CZH02025	CZL00006/CML442/CZL00009	CIMMYT	Non-QPM	98	27	11	7.6	22	9.0	14	4.0	19
5	DK8071	DK8071	MONSANTO	Non-QPM	97	27	12	6.7	34	6.9	43	2.4	45
17	SC715	SC715	SEED-CO	Non-QPM	91	28	14	6.2	15	9.0	15	3.6	22
4	ZA8551	ZA8551	MONSANTO	Non-QPM	90	33	10	6.8	31	7.6	38	3.9	21
39	CZH99052	CML144/CML159/CML176	CIMMYT	QPM	75	38	9	6.0	38	6.7	48	2.6	40
Maturity group average					101	24	12	7.7	22	8.1	26	3.9	21
Mean					100	25	12	7.4	25	8.4	23	3.7	25
Stdev (0.05)								1.0		1.3		1.8	
Q1													
Min					72	14	7	4.3	9	5.7		1.8	
Max					121	41	15	9.3	49	10.6		6.2	
NumSignificantSites					41	41	49	4		1		1	

ILHYB03: Results of evaluation of intermediate to late maturing hybrids from CIMMYT, Monsanto, Pannar, Pioneer, Seed Co and Zamseed across 49 sites in eastern and southern Africa, 2002/03.

Table 6D

Entry Name	Across			Mid Alt Eastern Africa-Grain Yields				Mid Alt Humid Warm (Zone A) - Grain Yields							
	Rel GY		Rank	Eulengeni Uga		Kitale Ken		Across		Mt. Makulu Zam		Zamseed, Farm Zam		Chisamba Zam	
	%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 69 - 72 days															
33 CZH01015	111	18	12	8.5	42	8.7	7	5.5	20	9.0	25	5.8	21	2.8	20
20 98C2890	103	22	13	10.6	19	7.4	20	4.7	32	7.6	39	5.8	22	2.8	18
25 CZH00025	101	23	12	9.6	33	7.1	24	5.3	26	9.4	20	6.2	12	2.2	41
19 SC633	99	24	14	10.3	27	11.1	1	5.7	22	11.0	2	4.9	39	2.6	28
9 PAN47 = PAN5503	100	24	12	10.4	24	7.2	23	4.8	34	7.7	38	6.1	15	2.9	17
41 CZH99055	85	33	13	10.9	17	5.0	45	4.1	42	7.6	41	3.9	47	1.3	48
Maturity group average	100	24	13	10.0	27	7.7	20	5.0	29	8.7	28	5.4	26	2.4	29
Entries with anthesis date between 72 - 74 days															
31 CZH02020	121	14	12	9.3	36	7.7	17	5.9	14	9.8	13	6.9	4	3.7	1
28 CZH00026	115	14	10	13.5	2	8.1	12	5.8	15	10.7	4	6.1	14	3.5	3
32 CZH02021	117	15	11	13.3	5	8.6	8	5.6	19	8.7	28	6.0	16	3.1	10
29 CZH02018	117	16	12	10.3	26	9.4	4	5.8	14	7.6	40	6.5	8	3.2	7
24 CZH99037	113	16	10	9.5	34	8.4	10	5.7	18	10.9	3	6.2	13	3.3	6
10 PAN57	114	18	12	11.3	13	5.4	40	5.4	24	9.9	12	5.6	27	3.1	8
16 PHB30D53	107	18	14	13.7	1	8.0	13	5.6	21	11.1	1	5.4	31	2.8	23
21 00C5351	110	19	13	11.8	11	6.5	34	5.6	19	9.0	24	4.5	45	2.5	32
18 SC713	104	20	15	10.6	20	6.3	36	5.5	21	9.7	15	3.8	48	2.2	42
6 PAN15	106	21	11	12.3	8	6.5	35	5.5	21	9.6	16	6.5	7	2.9	16
7 PAN33	105	22	10	11.3	15	7.6	19	5.6	20	9.6	18	7.3	2	3.5	2
46 CZH02026	105	22	13	9.4	35	5.7	39	5.0	30	7.7	37	5.2	37	1.7	47
13 PHB30H83	100	22	14	10.4	25	7.0	28	5.9	16	9.2	21	6.5	9	3.4	5
15 PHB30T47	101	23	12	12.9	7	6.6	32	5.5	24	10.5	5	5.9	18	2.9	15
43 CZH02023	103	24	14	9.3	37	6.7	30	5.2	27	10.2	8	4.7	41	2.7	26
14 PHB30G97	98	27	11	9.9	30	6.9	29	5.4	21	9.7	14	5.5	30	2.8	21
11 PAN77	96	27	13	7.2	47	4.7	47	4.9	27	8.7	27	6.4	10	2.8	19
38 CZH01018	93	27	12	10.4	23	7.4	21	5.2	28	10.2	7	5.4	33	2.6	29
12 PHB30R73	94	27	12	10.0	29	7.4	22	5.0	31	8.3	31	6.7	6	2.9	14
42 CZH02022	99	29	13	8.9	39	5.8	38	5.0	30	8.1	34	5.8	20	2.2	40
3 DK8051	89	32	11	9.7	32	6.6	33	4.4	38	7.8	36	5.3	34	2.1	44
48 LOCAL CHECK 2	85	33	15	8.3	45	7.1	27	5.0	30	10.0	10	5.6	28	2.5	31
47 LOCAL CHECK 1	87	33	13	8.4	43	7.7	18	4.7	32	6.1	47	4.8	40	3.1	9
22 MM603N	87	33	13	8.8	40	4.9	46	4.7	33	8.0	35	5.9	19	2.2	39
40 CZH99061	79	37	11	8.6	41	5.0	44	4.5	34	7.0	44	4.6	43	2.4	36
8 PAN45	72	40	10	7.0	48	2.7	48	3.4	44	5.7	48	4.3	46	1.7	46
23 GV704N	72	41	7	7.6	46	5.0	43	3.9	43	6.8	45	4.6	42	2.0	45
Maturity group average	100	25	12	10.1	27	6.6	29	5.2	26	8.9	23	5.6	25	2.7	23
Entries with anthesis date > 74 days															
26 CZH01011	115	15	11	13.4	3	10.7	3	6.1	12	10.1	9	7.1	3	3.4	4
30 CZH02019	114	15	13	13.2	6	10.7	2	5.8	12	7.5	42	6.7	5	2.3	38
37 CZH01017	109	19	12	10.3	28	8.5	9	5.9	15	10.5	6	5.7	25	2.5	35
35 CZH99021	106	19	14	12.1	9	8.0	14	5.7	19	8.4	29	5.3	35	2.7	24
34 CZH01020	108	20	11	11.6	12	6.2	37	5.3	24	9.5	19	5.6	26	2.5	33
27 CZH01012	104	21	12	12.0	10	7.1	25	6.2	11	9.2	22	7.7	1	3.0	13
36 CZH99030	102	22	13	11.3	14	7.1	26	5.9	14	10.0	11	5.7	23	2.2	43
2 GV659 = B41/L12	99	24	14	13.4	4	8.4	11	5.6	18	8.2	32	4.9	38	3.0	11
44 CZH02024	100	25	11	8.4	44	7.7	15	5.4	24	9.6	17	5.5	29	2.8	22
1 GV640 = B40/L917	100	25	14	9.8	31	9.2	5	5.2	23	6.7	46	6.4	11	2.6	30
45 CZH02025	98	27	11	9.2	38	7.7	16	5.6	19	9.2	23	5.3	36	2.4	37
5 DK8071	97	27	12	10.7	18	6.7	31	5.3	27	8.8	26	5.9	17	2.7	25
17 SC715	91	28	14	10.9	16	8.8	6	5.8	14	8.4	30	4.6	44	3.0	12
4 ZA8551	90	33	10	10.5	22	5.1	41	4.7	36	7.4	43	5.4	32	2.6	27
39 CZH99052	75	38	9	10.5	21	5.1	42	4.4	40	8.1	33	5.7	24	2.5	34
Maturity group average	101	24	12	11.2	18	7.8	19	5.5	20	8.8	26	5.8	23	2.7	26
Mean	100	25	12	10.4		7.1		5.2	25	8.8		5.7		2.7	
LSD (0.05)				2.5		1.6		0.5		2.0		1.8		1.8	
p				***		***				***		*		*	
Min	72	14	7	7.0		2.7		3.4	11	5.7		3.8		1.3	
Max	121	41	15	13.7		11.1		6.2	44	11.1		7.7		3.7	
NumSignificantSites	41	41	41	1		1		9		1		1		0	

ILHYB03: Results of evaluation of intermediate to late maturing hybrids from CIMMYT, Monsanto, Pannar, Pioneer, Seed Co and Zamseed across 49 sites in eastern and southern Africa, 2002/03.

Table 6E

Entry Name	Across			Mid Alt Humid Warm (Zone A) - Grain Yields												
	Rel GY	Rank		Mbulumbulu Tan		ART_Farm Zim		Marondera Zim		Rattray Zim		Chitedze Mal		Bvumbwe Mal		
	%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	
Entries with anthesis date between 69 - 72 days																
33 CZH01015	111	18	12	4.7	29	10.0	9	1.0	31	1.0	10	7.6	33	6.8	5	
20 98C2890	103	22	13	4.1	38	8.2	37	1.2	16	1.0	15	7.2	36	5.2	36	
25 CZH00025	101	23	12	5.0	21	8.3	33	0.6	44	0.8	30	7.7	29	5.6	27	
19 SC633	99	24	14	4.8	27	11.8	1	0.4	46	1.1	1	8.5	15	5.4	32	
9 PAN47 = PAN5503	100	24	12	4.1	37	8.3	31	0.6	43	0.6	44	7.4	34	4.6	44	
41 CZH99055	85	33	13	4.3	32	6.4	46	0.3	48	0.8	35	5.6	46	4.9	42	
Maturity group average	100	24	13	4.5	31	8.8	26	0.7	38	0.9	23	7.3	32	5.4	31	
Entries with anthesis date between 72 - 74 days																
31 CZH02020	121	14	12	5.5	7	9.1	24	1.3	12	0.7	37	9.1	9	6.1	15	
28 CZH00026	115	14	10	5.7	4	9.2	21	0.7	40	1.0	7	8.1	22	5.9	19	
32 CZH02021	117	15	11	4.9	25	8.0	39	1.2	18	1.0	13	8.5	16	6.3	11	
29 CZH02018	117	16	12	5.4	8	9.7	14	1.8	2	0.9	27	8.6	14	6.6	7	
24 CZH99037	113	16	10	5.9	3	9.6	15	1.0	30	1.0	16	7.7	28	5.8	23	
10 PAN57	114	18	12	4.0	41	9.3	20	1.8	1	0.8	29	7.6	32	5.6	25	
16 PHB30D53	107	18	14	5.3	12	9.6	16	1.8	3	0.7	36	7.7	31	5.1	39	
21 00C5351	110	19	13	4.8	26	9.1	23	1.7	4	1.0	6	10.3	1	6.8	4	
18 SC713	104	20	15	5.6	5	10.0	10	1.0	32	0.9	23	9.0	11	6.1	14	
6 PAN15	106	21	11	5.0	20	8.3	32	1.0	33	0.9	21	7.7	30	5.8	21	
7 PAN33	105	22	10	5.2	17	7.9	40	1.2	17	0.9	25	7.9	25	7.0	1	
46 CZH02026	105	22	13	5.2	15	9.9	13	1.0	28	0.8	31	6.7	37	5.4	33	
13 PHB30H83	100	22	14	4.9	23	9.5	18	1.3	11	0.4	47	9.1	7	7.0	2	
15 PHB30T47	101	23	12	5.3	14	9.9	12	1.1	25	0.7	39	8.3	20	5.0	40	
43 CZH02023	103	24	14	3.9	44	9.2	22	1.0	29	0.9	17	7.2	35	5.7	24	
14 PHB30G97	98	27	11	4.3	33	8.6	30	1.4	8	1.0	9	8.0	24	5.5	30	
11 PAN77	96	27	13	3.9	46	6.9	42	1.3	10	0.9	26	6.6	39	5.6	28	
38 CZH01018	93	27	12	4.4	31	8.2	35	0.7	42	0.9	18	8.2	21	5.8	20	
12 PHB30R73	94	27	12	4.8	28	7.1	41	0.8	38	0.4	48	7.9	26	5.3	35	
42 CZH02022	99	29	13	5.4	9	8.0	38	0.8	36	0.8	34	6.6	41	5.2	37	
3 DK8051	89	32	11	4.3	35	6.9	43	0.4	47	0.6	43	5.1	47	5.5	31	
48 LOCAL CHECK 2	85	33	15	3.9	45	10.7	3	1.3	13	0.7	40	6.5	42	4.5	45	
47 LOCAL CHECK 1	87	33	13	4.0	42	8.9	28	1.4	7	0.9	28	8.7	13	5.2	38	
22 MM603N	87	33	13	4.1	39	8.2	36	1.2	19	0.7	38	6.2	44	4.8	43	
40 CZH99061	79	37	11	4.3	34	6.8	44	1.5	6	0.8	32	6.4	43	5.5	29	
8 PAN45	72	40	10	2.8	48	5.4	48	1.2	20	0.6	42	5.0	48	3.7	48	
23 GV704N	72	41	7	3.8	47	5.7	47	1.1	23	0.5	45	5.9	45	4.1	47	
Maturity group average	100	25	12	4.7	26	8.5	28	1.2	21	0.8	29	7.6	28	5.6	26	
Entries with anthesis date > 74 days																
26 CZH01011	115	15	11	5.2	18	11.0	2	1.1	24	1.0	12	8.7	12	6.5	8	
30 CZH02019	114	15	13	5.5	6	10.3	6	1.5	5	1.1	2	9.0	10	6.4	10	
37 CZH01017	109	19	12	5.2	16	8.9	27	1.0	27	1.0	3	9.8	4	6.9	3	
35 CZH99021	106	19	14	5.4	10	10.0	11	0.5	45	0.9	24	9.4	6	6.4	9	
34 CZH01020	108	20	11	5.0	22	9.1	25	1.3	15	0.9	22	7.8	27	6.0	17	
27 CZH01012	104	21	12	6.0	1	10.5	4	0.9	35	1.0	11	9.8	3	6.0	18	
36 CZH99030	102	22	13	5.9	2	10.4	5	1.1	21	1.0	5	9.1	8	6.2	13	
2 GV659 = B41/L12	99	24	14	5.4	11	9.5	17	0.9	34	1.0	8	9.7	5	6.1	16	
4 CZH02024	100	25	11	4.9	24	9.4	19	0.8	37	0.9	20	8.0	23	5.8	22	
1 GV640 = B40/L917	100	25	14	4.6	30	8.6	29	1.4	9	1.0	14	8.3	19	5.4	34	
45 CZH02025	98	27	11	5.0	19	10.2	8	1.1	26	0.9	19	8.3	18	6.3	12	
5 DK8071	97	27	12	4.2	36	9.0	26	0.8	39	0.8	33	8.4	17	5.6	26	
17 SC715	91	28	14	5.3	13	10.3	7	1.3	15	1.0	4	9.8	2	6.6	6	
4 ZA8551	90	33	10	4.0	43	8.3	34	1.1	22	0.7	41	6.6	40	5.0	41	
39 CZH99052	75	38	9	4.1	40	6.8	45	0.7	41	0.4	46	6.6	38	4.3	46	
Maturity group average	101	24	12	5.0	19	9.5	18	1.0	26	0.9	18	8.6	15	6.0	19	
Mean	100	25	12	4.8		8.8		1.1		0.8		7.9		5.7		
LSD (0.05)				1.0		2.0		0.6		0.1		1.8		1.0		
p				***		***		***		***		***		***		
Min	72	44	7	2.8		5.4		0.3		0.4		5.0		3.7		
Max	121	41	15	6.0		11.8		1.8		1.1		10.3		7.0		
NumSignificantSites	41	41	41	1		1		1		1		1		1		

ILHYB03: Results of evaluation of intermediate to late maturing hybrids from CIMMYT, Monsanto, Pannar, Pioneer, Seed Co and Zamseed across 49 sites in eastern and southern Africa, 2002/03.

Table 6F

Entry Name	Across			Zone A - Grain Yields				Mid Alt Humid Hot (Zone B) - Grain Yields							
	Rel GY	Rank		Lichinga Moz		Marondera Zim		Across		Weruweru Tan		Mazozo Ang		Angonia -Tete Moz	
	%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 69 - 72 days															
33 CZH01015	111	18	12	4.2	15	0.7	27	6.3	7	5.8	42	5.5	1	7.1	12
20 98C2890	103	22	13	2.1	46	0.5	37	5.5	18	5.4	46	4.3	14	6.7	22
25 CZH00025	101	23	12	4.0	20	0.5	43	5.3	23	6.7	18	4.5	11	6.2	35
19 SC633	99	24	14	2.9	38	1.4	1	5.3	24	6.3	32	3.9	23	6.6	25
9 PAN47 = PAN5503	100	24	12	3.9	23	0.6	30	6.0	8	6.1	36	4.6	9	7.4	6
41 CZH99055	85	33	13	2.9	37	0.5	41	4.1	37	6.5	28	3.8	28	4.5	45
Maturity group average	100	24	13	3.3	30	0.7	30	5.4	19	6.2	34	4.4	14	6.4	24
Entries with anthesis date between 72 - 74 days															
31 CZH02020	121	14	12	4.5	9	0.9	16	5.6	20	6.7	20	3.6	37	7.6	2
28 CZH00026	115	14	10	4.6	6	1.0	10	5.5	18	6.1	35	3.7	29	7.3	7
32 CZH02021	117	15	11	5.8	1	1.0	9	5.9	10	6.7	21	4.7	7	7.1	13
29 CZH02018	117	16	12	4.9	2	0.9	15	5.1	28	4.7	48	3.0	45	7.2	10
24 CZH99037	113	16	10	3.5	30	0.8	20	5.9	11	6.3	34	4.9	4	7.0	18
10 PAN57	114	18	12	3.8	26	1.1	4	5.8	14	5.7	45	4.9	5	6.7	23
16 PHB30D53	107	18	14	4.2	17	1.1	6	6.2	10	6.0	41	5.4	2	7.0	17
21 00C5351	110	19	13	2.6	42	0.5	40	5.8	14	6.7	19	3.8	27	7.9	1
18 SC713	104	20	15	3.4	33	1.2	2	5.9	9	6.4	30	4.4	13	7.5	5
6 PAN15	106	21	11	4.5	10	1.0	11	5.1	29	7.4	9	3.7	31	6.5	27
7 PAN33	105	22	10	3.4	32	1.1	5	5.2	27	5.8	43	3.9	25	6.5	28
46 CZH02026	105	22	13	3.0	36	0.5	38	5.4	21	7.3	11	4.6	8	6.3	33
13 PHB30H83	100	22	14	4.8	4	0.6	36	6.1	7	6.8	15	4.6	10	7.6	3
15 PHB30T47	101	23	12	2.8	39	0.2	48	5.2	27	6.1	40	4.1	17	6.2	36
43 CZH02023	103	24	14	3.9	22	0.9	18	4.9	35	5.8	44	3.5	38	6.3	32
14 PHB30G97	98	27	11	4.3	13	0.9	17	5.2	26	6.1	39	4.1	20	6.4	31
11 PAN77	96	27	13	4.3	12	0.4	45	4.9	34	6.7	23	3.6	34	6.2	34
38 CZH01018	93	27	12	2.7	41	0.6	34	5.4	23	7.4	8	3.9	24	6.9	21
12 PHB30R73	94	27	12	3.6	29	0.6	33	5.2	26	7.6	5	3.9	22	6.5	30
42 CZH02022	99	29	13	3.8	25	0.6	35	4.9	27	6.1	37	4.5	12	5.3	42
3 DK8051	89	32	11	3.9	24	0.6	32	4.9	34	7.3	12	3.7	30	6.2	37
48 LOCAL CHECK 2	85	33	15	1.7	48	0.7	25	2.8	47	6.5	27	1.6	47	3.9	47
47 LOCAL CHECK 1	87	33	13	2.1	45	0.3	46	3.4	44	6.6	25	3.3	40	3.6	48
22 MM603N	87	33	13	3.6	28	0.7	29	3.7	44	6.1	38	1.9	46	5.4	41
40 CZH99061	79	37	11	3.3	35	0.8	21	3.8	45	5.3	47	3.2	43	4.4	46
8 PAN45	72	40	10	2.0	47	0.7	28	3.1	46	6.6	24	1.5	48	4.6	44
23 GV704N	72	41	7	2.1	44	0.7	26	4.0	41	6.4	31	3.3	39	4.7	43
Maturity group average	100	25	12	3.6	26	0.8	24	5.0	26	6.4	29	3.7	26	6.3	27
Entries with anthesis date > 74 days															
26 CZH01011	115	15	11	4.2	17	0.9	14	5.2	25	7.6	6	3.8	26	6.6	24
30 CZH02019	114	15	13	4.0	18	0.7	24	5.4	21	6.3	33	4.3	15	6.6	26
37 CZH01017	109	19	12	3.9	21	0.5	42	5.6	15	6.4	29	4.1	18	7.2	11
35 CZH99021	106	19	14	4.9	3	0.5	44	6.2	6	7.0	14	5.2	3	7.3	9
34 CZH01020	108	20	11	2.8	40	0.5	39	5.3	24	7.3	10	3.6	32	7.0	16
27 CZH01012	104	21	12	4.6	7	1.0	12	5.5	18	8.2	1	4.0	21	7.1	14
36 CZH99030	102	22	13	3.3	34	0.8	22	6.1	7	6.8	16	4.8	6	7.3	8
2 GV659 = B41/L12	99	24	14	4.7	5	0.9	13	5.3	26	6.7	17	3.6	36	7.0	15
44 CZH02024	100	25	11	3.7	27	0.3	47	5.5	18	7.6	4	4.2	16	6.9	20
1 GV640 = B40/L917	100	25	14	4.4	11	1.2	3	5.8	12	7.9	2	4.1	19	7.5	4
45 CZH02025	98	27	11	4.2	14	0.8	19	5.0	32	6.7	22	3.6	35	6.5	29
5 DK8071	97	27	12	4.0	19	0.7	23	4.7	40	7.1	13	3.2	41	6.2	38
17 SC715	91	28	14	4.5	8	1.1	7	5.0	32	7.6	7	3.1	44	6.9	19
4 ZA8551	90	33	10	3.4	31	1.0	8	4.7	41	7.7	3	3.2	42	6.1	39
39 CZH99052	75	38	9	2.6	43	0.6	31	4.6	37	6.6	26	3.8	33	5.6	40
Maturity group average	101	24	12	4.0	20	0.8	23	5.3	23	7.2	14	3.9	26	6.8	21
Mean	100	25	12	3.7	.	0.8	.	5.1	25	6.6	.	3.9	.	6.4	.
LSD (0.05)				1.6	.	0.7	.	0.7		2.1	.	1.1	.	1.0	.
p				***		ns				ns		***		***	
Min	72	14	7	1.7	.	0.2	.	2.8	6	4.7	.	1.5	.	3.6	.
Max	121	41	15	5.8	.	1.4	.	6.2	47	8.2	.	5.5	.	7.9	.
NumSignificantSites	41	41	41	1		0		2		0		1		1	

ILHYB03: Results of evaluation of intermediate to late maturing hybrids from CIMMYT, Monsanto, Pannar, Pioneer, Seed Co and Zamseed across 49 sites in eastern and southern Africa, 2002/03.

Table 6G

Entry Name	Across			Zone B - Grain Yields		Mid Altitude Dry (Zone C) - Grain Yields									
	Rel GY	Rank		Susaundenga Moz		Across	Nhlangano Swa	Pelotshetsha Bot	Arusha Tan	Makoholi Zim					
	%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 60 - 72 days															
33 CZH01015	111	18	12	2.3	41	1.8	17	4.5	20	0.4	43	0.9	35	2.0	26
20 98C2890	103	22	13	3.4	2	1.6	21	0.9	48	0.7	22	0.6	42	2.0	29
25 CZH00025	101	23	12	2.8	21	1.7	17	5.1	10	0.9	12	1.0	20	2.1	21
19 SC633	99	24	14	2.5	33	1.9	17	4.9	12	1.0	9	1.0	26	2.3	12
9 PAN47 = PAN5503	100	24	12	3.3	5	1.6	22	4.6	16	1.2	2	1.0	27	2.0	28
41 CZH99055	85	33	13	2.5	32	1.3	36	3.5	32	1.1	5	0.7	39	2.3	15
Maturity group average	100	24	13	2.8	22	1.7	22	3.9	23	0.9	16	0.8	32	2.1	22
Entries with anthesis date between 72 - 74 days															
31 CZH02020	121	14	12	2.8	19	1.7	15	4.5	17	1.0	7	1.2	10	2.6	6
28 CZH00026	115	14	10	3.3	3	1.9	13	5.5	5	0.8	16	1.2	11	2.3	11
32 CZH02021	117	15	11	2.9	16	1.7	13	4.4	23	0.7	20	1.4	4	2.2	18
29 CZH02018	117	16	12	2.7	26	1.8	16	3.8	30	0.7	18	1.0	23	2.2	19
24 CZH99037	113	16	10	3.1	7	1.8	13	4.4	22	0.5	38	1.3	6	2.3	14
10 PAN57	114	18	12	2.7	23	2.2	4	4.4	21	0.9	11	1.5	2	2.9	1
16 PHB30D53	107	18	14	2.8	17	1.9	11	1.8	44	0.6	27	1.3	5	2.7	2
21 00C5351	110	19	13	2.5	31	1.8	16	4.8	15	0.6	29	1.2	14	2.1	20
18 SC713	104	20	15	2.3	39	1.6	24	5.6	4	0.6	28	0.5	45	2.5	7
6 PAN15	106	21	11	2.8	18	1.6	22	3.3	35	0.6	25	0.9	28	2.5	9
7 PAN33	105	22	10	2.2	45	1.7	20	5.4	6	1.0	8	1.3	7	2.1	23
46 CZH02026	105	22	13	2.6	28	1.5	32	3.3	34	0.5	36	0.6	43	1.8	36
13 PHB30H83	100	22	14	3.1	9	1.5	20	3.9	27	0.6	32	0.4	46	2.6	4
15 PHB30T47	101	23	12	2.4	37	1.6	21	4.5	19	0.8	13	1.2	15	2.3	16
43 CZH02023	103	24	14	2.2	44	1.8	21	2.9	39	0.7	17	1.3	8	2.1	25
14 PHB30G97	98	27	11	3.0	14	1.4	23	4.3	24	1.0	6	0.9	32	2.0	30
11 PAN77	96	27	13	2.3	42	1.6	21	4.2	25	0.6	26	1.0	24	2.1	24
38 CZH01018	93	27	12	2.7	25	1.5	32	2.3	42	1.1	4	0.8	37	2.0	27
12 PHB30R73	94	27	12	3.0	12	1.5	22	3.1	37	0.7	21	1.2	13	2.6	5
42 CZH02022	99	29	13	1.6	48	1.5	34	1.9	43	0.7	19	1.0	25	1.8	39
3 DK8051	89	32	11	2.3	40	1.6	27	3.0	38	0.5	33	1.1	18	2.3	13
48 LOCAL CHECK 2	85	33	15	1.8	47	1.2	38	4.2	26	0.6	31	1.0	21	1.9	34
47 LOCAL CHECK 1	87	33	13	2.6	30	1.6	30	4.5	18	0.8	15	0.9	29	2.1	22
22 MM603N	87	33	13	2.7	24	1.4	28	5.3	7	0.5	39	1.3	9	1.7	42
40 CZH99061	79	37	11	1.9	46	1.5	33	3.9	28	0.6	30	0.7	40	2.2	17
8 PAN45	72	40	10	2.7	27	1.3	30	2.8	40	0.6	24	1.2	12	1.5	48
23 GV704N	72	41	7	2.5	34	1.3	39	3.6	31	0.5	35	0.7	38	1.6	43
Maturity group average	100	25	12	2.6	28	1.6	23	3.9	26	0.7	23	1.0	21	2.2	21
Entries with anthesis date > 74 days															
26 CZH01011	115	15	11	3.3	4	1.8	14	5.7	3	1.0	10	0.8	36	2.5	8
30 CZH02019	114	15	13	3.2	6	1.8	12	4.9	11	0.5	40	1.0	19	2.6	3
37 CZH01017	109	19	12	2.6	29	1.5	27	4.9	13	0.4	45	0.6	41	1.8	37
35 CZH99021	106	19	14	2.4	35	1.6	28	5.2	8	0.3	48	0.9	30	2.0	31
34 CZH01020	108	20	11	2.2	43	1.6	25	5.2	9	1.6	1	1.0	23	1.6	46
27 CZH01012	104	21	12	3.0	10	1.6	25	3.3	36	0.8	14	0.9	33	2.0	32
36 CZH99030	102	22	13	2.7	22	1.4	34	1.1	46	1.1	3	0.9	31	1.7	40
2 GV659 = B41/L12	99	24	14	2.8	20	1.6	20	6.0	2	0.5	37	1.6	1	2.4	10
44 CZH02024	100	25	11	3.0	13	1.4	39	6.0	1	0.5	34	0.9	34	1.6	45
1 GV640 = B40/L917	100	25	14	2.4	36	1.4	33	3.9	29	0.4	44	1.4	3	1.9	35
45 CZH02025	98	27	11	2.4	38	1.4	34	2.7	41	0.3	47	1.1	16	1.6	44
5 DK8071	97	27	12	3.0	15	1.4	28	3.4	33	0.3	46	0.5	44	1.9	33
17 SC715	91	28	14	3.0	11	1.3	36	1.1	47	0.4	42	0.2	48	1.7	41
4 ZA8551	90	33	10	3.1	8	1.3	34	4.9	14	0.6	23	1.1	17	1.6	47
39 CZH99052	75	38	9	3.6	1	1.3	38	1.8	45	0.4	44	0.3	47	1.8	38
Maturity group average	101	24	12	2.9	19	1.5	28	4.0	23	0.6	32	0.9	28	1.9	33
Mean	100	25	12	2.7		1.6	25	3.9		0.7		1.0		2.1	
1.SD (0.05)				1.0		0.3		3.6		0.6		0.6		0.6	
p				ns				ns		ns				***	
Min	72	14	7	1.6		1.2	4	0.9		0.3		0.2		1.5	
Max	121	41	15	3.6		2.2	39	6.0		1.6		1.6		2.9	
NumSignificantSites	41	41	41	0		5		0		0		1		1	

ILHYB03: Results of evaluation of intermediate to late maturing hybrids from CIMMYT, Monsanto, Pannar, Pioneer, Seed Co and Zamseed across 49 sites in eastern and southern Africa, 2002/03.

Table 6H

Entry Name	Across			Mid Alt Dry (Zone C) - Grain Yields						Lowland Tropical Humid (Zone D) - Grain Yields						
	Rel GY	Rank		Kadoma Zim		Kadoma Zim		Makoholi Zim		Across		Cabinda Ang		Ilonga Tan		
	%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	
Entries with anthesis date between 69 - 72 days																
33 CZH01015	111	18	12	4.5	3	1.0	14	0.6	9	1.6	18	0.4	7	2.8	29	
20 98C2890	103	22	13	4.1	8	1.0	9	0.5	17	2.0	23	0.1	41	3.9	5	
25 CZH00025	101	23	12	4.0	9	0.9	33	0.7	3	1.3	34	0.2	24	2.3	43	
19 SC633	99	24	14	4.7	2	1.0	13	0.4	34	4.9	1	.	.	4.9	1	
9 PAN47 = PAN5503	100	24	12	3.7	18	0.9	26	0.6	10	1.3	27	0.4	11	2.3	42	
41 CZH99055	85	33	13	2.6	42	0.7	47	0.4	37	1.9	18	0.3	22	3.5	14	
Maturity group average	100	24	13	3.9	14	0.9	24	0.5	18	2.2	20	0.3	21	3.3	22	
Entries with anthesis date between 72 - 74 days																
31 CZH02020	121	14	12	2.8	37	1.1	3	0.6	19	2.2	7	0.4	10	4.0	3	
28 CZH00026	115	14	10	4.2	5	1.0	20	0.5	18	2.0	14	0.3	19	3.8	9	
32 CZH02021	117	15	11	3.5	25	1.1	6	0.6	12	1.5	27	0.3	21	2.7	32	
29 CZH02018	117	16	12	4.1	7	0.9	25	0.9	5	1.7	16	0.5	5	3.0	27	
24 CZH99037	113	16	10	3.5	27	1.0	17	0.8	2	1.8	17	0.3	15	3.2	18	
10 PAN57	114	18	12	4.8	1	1.1	4	0.6	11	1.8	14	0.5	4	3.1	24	
16 PHB30D53	107	18	14	3.8	16	1.1	8	0.5	22	1.3	41	0.1	42	2.5	40	
21 00C5351	110	19	13	3.7	17	1.0	22	0.7	8	1.8	27	0.2	37	3.3	16	
18 SC713	104	20	15	3.8	12	1.0	17	0.4	41	1.8	29	0.1	44	3.5	13	
6 PAN15	106	21	11	3.1	35	1.0	15	0.4	24	1.9	15	0.3	14	3.5	15	
7 PAN33	105	22	10	3.6	23	0.9	27	0.6	20	2.0	12	0.3	13	3.7	11	
46 CZH02026	105	22	13	3.6	24	0.9	29	0.5	26	2.0	14	0.3	17	3.8	10	
13 PHB30H83	100	22	14	2.7	40	1.0	10	1.0	1	1.5	24	0.2	27	2.7	31	
15 PHB30T47	101	23	12	3.4	29	0.9	32	0.5	15	1.7	28	0.2	35	3.1	21	
43 CZH02023	103	24	14	4.3	4	0.8	42	0.4	28	2.0	20	0.2	32	3.8	8	
14 PHB30G97	98	27	11	2.6	41	1.1	7	0.6	6	1.5	23	0.4	8	2.5	37	
11 PAN77	96	27	13	3.8	14	1.0	21	0.4	23	2.0	25	0.1	43	3.9	6	
38 CZH01018	93	27	12	3.4	28	0.9	35	0.5	32	1.9	16	0.3	20	3.6	12	
12 PHB30R73	94	27	12	2.3	46	0.8	43	0.7	4	1.7	21	0.3	23	3.2	19	
42 CZH02022	99	29	13	3.7	19	0.8	44	0.4	43	2.4	2	0.6	1	4.1	2	
3 DK8051	89	32	11	3.3	30	0.8	40	0.4	33	1.4	27	0.3	18	2.5	36	
48 LOCAL CHECK 2	85	33	15	2.2	47	0.8	41	0.2	48	2.7	30	.	.	2.7	30	
47 LOCAL CHECK 1	87	33	13	3.7	20	0.8	36	0.4	45	1.0	38	0.2	28	1.8	47	
22 MM603N	87	33	13	2.6	43	0.8	37	0.7	7	1.5	37	0.0	45	3.0	28	
40 CZH99061	79	37	11	3.6	21	0.7	48	0.4	38	1.4	37	0.2	38	2.6	35	
8 PAN45	72	40	10	2.2	48	0.9	30	0.5	13	1.0	41	0.2	33	1.7	48	
23 GV704N	72	41	7	2.7	38	0.8	40	0.4	36	1.2	38	0.2	31	2.3	44	
Maturity group average	100	25	12	3.4	26	0.9	26	0.5	21	1.7	24	0.3	24	3.1	23	
Entries with anthesis date > 74 days																
26 CZH01011	115	15	11	4.1	6	1.1	3	0.6	16	1.8	14	0.5	6	3.1	22	
30 CZH02019	114	15	13	3.6	22	1.2	1	0.6	14	1.9	10	0.5	3	3.3	17	
37 CZH01017	109	19	12	3.8	15	1.0	12	0.5	29	1.8	14	0.6	2	3.0	26	
35 CZH99021	106	19	14	3.8	13	0.9	28	0.4	39	1.7	27	0.2	34	3.2	28	
34 CZH01020	108	20	11	3.9	10	1.0	19	0.4	27	1.7	24	0.2	25	3.1	23	
27 CZH01012	104	21	12	3.9	11	1.0	18	0.5	31	1.3	37	0.2	36	2.5	38	
36 CZH99030	102	22	13	3.2	32	0.9	23	0.3	46	1.2	31	0.3	16	2.1	45	
2 GV659 = B41/L12	99	24	14	2.4	44	1.1	5	0.4	42	1.6	26	0.2	26	3.0	25	
44 CZH02024	100	25	11	3.1	36	0.9	34	0.3	47	1.4	32	0.2	30	2.7	33	
1 GV640 = B40/L917	100	25	14	2.4	45	0.8	38	0.3	44	4.0	4	.	.	4.0	4	
45 CZH02025	98	27	11	3.2	34	0.8	45	0.4	30	1.4	27	0.3	12	2.4	41	
5 DK8071	97	27	12	3.2	31	1.0	11	0.5	21	1.5	22	0.4	9	2.6	34	
17 SC715	91	28	14	3.5	26	0.9	24	0.4	40	1.0	43	0.2	39	1.8	46	
4 ZA8551	90	33	10	2.7	39	0.9	32	0.5	35	1.3	34	0.2	29	2.5	39	
39 CZH99052	75	38	9	3.2	33	0.7	47	0.5	25	2.0	34	0.1	40	3.3	7	
Maturity group average	101	24	12	3.3	26	1.0	23	0.4	32	1.7	24	0.3	22	2.9	28	
Mean	100	25	12	3.4	.	0.9	.	0.5	.	1.8	23	0.3	.	3.1	.	
LSD (0.05)				1.2	.	0.2	.	0.3	.	0.6		0.2	.	1.2	.	
p				**		***		*				**		**		
Min	72	14	7	2.2	.	0.7	.	0.2	.	1.0	1	0.0	.	1.7	.	
Max	121	41	15	4.8	.	1.2	.	1.0	.	4.0	43	0.6	.	4.9	.	
NumSignificantSites	41	41	41	1	.	1	.	1	.	2		1	.	1	.	

Entry	Name	Across			Lowland Tropical Dry (Zone E) - Grain Yields											
		Rel GY		Rank	Acroza		Nanga Zam		Goodhope Bot		Sebele Bot		Arusha Tan		Chiredzi Zim	
		%	Avg	Stddev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 69 - 72 days																
33	CZH01015	111	18	12	2.9	19	3.9	37	2.5	18	0.5	44	3.2	3	3.6	1
20	98C2890	103	22	13	3.0	13	4.5	26	2.4	22	1.0	7	1.9	28	1.8	21
25	CZH00025	101	23	12	2.9	12	4.6	24	2.8	9	1.1	4	2.0	22	2.6	9
19	SC633	99	24	14	2.4	25	3.9	35	2.9	8	0.9	11	2.0	21	2.0	15
9	PAN47 = PAN5503	100	24	12	3.0	13	6.3	2	2.6	14	0.9	14	2.1	18	2.2	14
41	CZH99055	85	33	13	2.8	17	5.4	9	1.8	40	0.7	28	2.4	11	2.8	5
	Maturity group average	100	24	13	2.8	16	4.8	22	2.5	19	0.8	18	2.3	17	2.5	11
Entries with anthesis date between 72 - 74 days																
31	CZH02020	121	14	12	3.6	8	5.6	6	2.3	24	0.5	39	4.1	1	3.4	2
28	CZH00026	115	14	10	3.0	10	5.1	13	3.8	2	1.1	3	2.8	6	2.7	6
32	CZH02021	117	15	11	2.9	16	5.4	8	2.6	13	0.6	36	2.7	9	1.6	27
29	CZH02018	117	16	12	3.0	14	4.8	21	2.5	16	0.8	16	3.5	2	2.8	4
24	CZH99037	113	16	10	2.6	19	3.4	41	2.0	37	0.8	23	1.7	31	2.3	11
10	PAN57	114	18	12	2.9	14	6.1	3	2.4	21	1.3	1	2.5	10	1.6	29
16	PHB30D53	107	18	14	2.8	16	5.0	15	2.5	20	0.7	24	2.2	16	2.0	16
21	00C5351	110	19	13	2.5	21	5.6	5	2.2	27	1.2	2	1.0	45	1.5	30
18	SC713	104	20	15	2.5	19	5.2	11	2.3	25	0.9	10	0.8	48	1.5	31
6	PAN15	106	21	11	2.6	22	5.6	7	3.3	4	0.7	25	2.4	12	1.4	37
7	PAN33	105	22	10	2.4	25	4.4	28	3.8	1	0.8	19	1.9	26	1.3	39
46	CZH02026	105	22	13	3.0	14	4.9	18	2.0	34	0.8	21	2.0	23	3.3	3
13	PHB30H83	100	22	14	2.3	30	4.9	17	3.0	6	0.4	47	1.6	33	1.7	23
15	PHB30T47	101	23	12	2.5	26	5.4	10	2.0	35	0.6	32	2.1	20	1.2	40
43	CZH02023	103	24	14	2.5	21	3.4	42	2.1	28	1.0	6	2.3	13	2.7	7
14	PHB30G97	98	27	11	2.3	31	4.3	29	2.6	12	0.6	33	2.2	17	1.1	43
11	PAN77	96	27	13	2.5	23	5.1	12	2.1	29	0.8	17	2.3	14	1.4	36
38	CZH01018	93	27	12	2.0	36	3.1	45	3.0	7	0.4	45	1.0	46	1.6	28
12	PHB30R73	94	27	12	2.4	26	4.4	27	2.0	33	0.8	20	1.6	32	1.5	32
42	CZH02022	99	29	13	2.3	28	3.6	39	2.5	17	0.8	15	1.8	30	1.6	26
3	DK8051	89	32	11	2.3	30	4.5	25	1.8	41	0.6	31	1.2	41	2.2	13
48	LOCAL CHECK 2	85	33	15	2.1	34	4.8	20	1.7	43	0.9	8	1.2	40	0.9	47
47	LOCAL CHECK 1	87	33	13	2.1	32	2.7	46	1.6	44	0.5	38	1.5	35	1.8	22
22	MM603N	87	33	13	2.0	34	4.0	33	2.1	31	0.5	40	1.4	39	1.6	24
40	CZH99061	79	37	11	2.1	34	4.7	22	1.9	39	0.4	46	1.5	38	1.3	38
8	PAN45	72	40	10	1.6	42	2.4	47	1.5	45	0.7	29	1.1	42	0.5	48
23	GV704N	72	41	7	1.5	45	2.1	48	2.0	32	0.3	48	0.9	47	1.5	34
	Maturity group average	100	25	12	2.4	25	4.5	24	2.4	25	0.7	25	1.9	27	1.8	26
Entries with anthesis date > 74 days																
26	CZH01011	115	15	11	3.1	10	6.6	1	2.7	11	0.9	12	2.7	8	1.9	19
30	CZH02019	114	15	13	3.0	17	5.9	4	2.0	38	0.8	22	2.1	19	2.6	8
37	CZH01017	109	19	12	2.6	20	5.0	16	2.5	15	0.8	18	2.0	24	1.9	18
35	CZH99021	106	19	14	2.7	21	4.2	31	2.7	10	0.6	35	2.8	5	1.5	33
34	CZH01020	108	20	11	2.8	15	4.3	30	3.2	5	1.1	5	3.1	4	1.9	20
27	CZH01012	104	21	12	2.5	22	4.9	19	2.1	30	0.9	13	2.7	7	2.0	17
36	CZH99030	102	22	13	2.3	29	4.7	23	3.3	3	0.7	26	2.2	15	1.4	35
2	GV659 = B41/L12	99	24	14	2.1	33	3.3	43	1.7	42	0.6	37	1.9	27	1.1	42
44	CZH02024	100	25	11	2.6	24	5.1	14	2.4	23	0.7	27	1.9	25	2.6	10
1	GV640 = B40/L917	100	25	14	1.9	38	3.5	40	1.4	47	0.6	34	1.5	36	1.1	41
45	CZH02025	98	27	11	2.3	27	3.9	38	2.2	26	0.9	9	1.8	29	2.2	12
5	DK8071	97	27	12	2.1	35	4.1	32	1.5	46	0.5	43	1.1	43	1.6	25
17	SC715	91	28	14	1.8	40	3.9	36	2.0	36	0.6	30	1.0	44	1.0	44
4	ZA8551	90	33	10	2.1	35	3.9	34	2.5	19	0.5	41	1.6	34	1.0	45
39	CZH99052	75	38	9	1.7	42	3.1	44	1.4	48	0.5	42	1.5	37	1.0	46
	Maturity group average	101	24	12	2.4	27	4.4	27	2.2	27	0.7	26	2.0	24	1.7	28
Mean		100	25	12	2.5	24	4.5	24	2.3	25	0.7	25	1.9	27	1.8	26
LSD (0.05)					0.4		1.9		1.3		0.4		0.8		1.1	
F							**		ns		**		***		***	
Min		72	14	7	1.5	8	2.1		1.4		0.3		0.8		0.5	
Max		121	41	15	3.6	45	6.6		3.8		1.3		4.1		3.6	
NumSignificantSites		41	41	41	7		1		0		1		1		1	

Entry	Name	Across			Lowland Tropical Dry (Zone E) - Grain Yields						Highlands (Zone F) - Grain Yields	
		Rel GY	Rank		Chitata Mal		Nampula Moz		Save-Valley Zim.		Humpata Ang	
		%	Avg	Sidev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 69 - 72 days												
33	CZH01015	111	18	12	2.7	6	4.4	17	2.3	25	7.8	16
20	98C2890	103	22	13	3.4	1	5.7	1	2.6	10	7.9	13
25	CZH00025	101	23	12	2.6	7	4.6	12	2.9	4	7.4	23
19	SC633	99	24	14	1.2	44	4.0	26	2.4	21	6.7	34
9	PAN47 = PAN5503	100	24	12	2.5	8	4.1	24	2.7	8	7.0	29
41	CZH99055	85	33	13	2.1	18	3.9	28	2.4	23	5.3	47
	Maturity group average	100	24	13	2.4	14	4.4	18	2.6	15	7.0	27
Entries with anthesis date between 72 - 74 days												
31	CZH02020	121	14	12	3.3	2	4.9	6	3.5	1	8.3	7
28	CZH00026	115	14	10	2.3	15	4.4	16	2.6	11	7.1	26
32	CZH02021	117	15	11	2.7	5	4.7	11	2.5	14	7.8	14
29	CZH02018	117	16	12	2.3	13	4.3	18	2.4	22	7.5	22
24	CZH99037	113	16	10	2.9	3	4.7	8	2.4	19	8.4	5
10	PAN57	114	18	12	1.9	24	4.4	15	2.5	13	6.6	35
16	PHB30D53	107	18	14	2.8	4	3.8	32	3.0	3	8.9	3
21	00C5351	110	19	13	2.5	9	3.8	30	2.2	27	7.8	15
18	SC713	104	20	15	2.3	12	4.2	19	2.8	5	9.3	1
6	PAN15	106	21	11	2.2	16	4.1	22	2.1	34	8.2	9
7	PAN33	105	22	10	1.6	36	4.5	13	2.6	12	7.6	20
46	CZH02026	105	22	13	2.4	11	4.9	4	2.4	18	7.2	25
13	PHB30H83	100	22	14	1.6	33	4.2	20	1.9	38	7.0	30
15	PHB30T47	101	23	12	2.0	21	3.6	37	2.4	20	8.3	6
43	CZH02023	103	24	14	2.5	10	3.7	35	2.0	36	6.6	36
14	PHB30G97	98	27	11	1.6	38	3.9	27	2.1	33	6.6	37
11	PAN77	96	27	13	1.7	32	3.7	34	2.5	15	7.7	19
38	CZH01018	93	27	12	1.3	42	4.1	21	2.3	24	8.0	10
12	PHB30R73	94	27	12	1.9	27	3.9	29	2.5	16	6.5	38
42	CZH02022	99	29	13	1.7	31	4.7	10	1.8	42	6.3	40
3	DK8051	89	32	11	1.7	30	3.8	31	1.9	39	6.0	43
48	LOCAL CHECK 2	85	33	15	1.4	40	3.6	36	1.4	47	5.9	44
47	LOCAL CHECK 1	87	33	13	2.1	17	3.7	33	2.0	35	6.2	41
22	MM603N	87	33	13	1.0	47	2.6	46	2.8	7	6.4	39
40	CZH99061	79	37	11	1.1	45	2.1	48	3.2	2	5.8	46
8	PAN45	72	40	10	1.3	43	3.1	42	1.8	41	7.1	27
23	GV704N	72	41	7	1.0	46	2.9	45	1.5	44	5.9	45
	Maturity group average	100	25	12	2.0	24	4.0	25	2.3	23	7.2	25
Entries with anthesis date > 74 days												
26	CZH01011	115	15	11	2.1	19	4.9	5	2.6	9	7.9	11
30	CZH02019	114	15	13	1.6	35	5.4	2	2.3	26	9.1	2
37	CZH01017	109	19	12	1.8	28	4.9	7	2.1	32	6.9	32
35	CZH99021	106	19	14	1.6	37	5.4	3	2.8	6	8.5	4
34	CZH01020	108	20	11	2.0	20	4.7	9	2.4	17	7.8	18
27	CZH01012	104	21	12	1.9	26	3.2	40	2.2	31	7.9	12
36	CZH99030	102	22	13	0.7	48	4.1	25	2.2	28	6.9	31
2	GV659 = B41/L12	99	24	14	1.6	34	4.4	14	2.0	37	7.0	28
44	CZH02024	100	25	11	1.9	23	4.1	23	1.7	43	7.5	21
1	GV640 = B40/L917	100	25	14	1.9	22	3.0	43	1.4	48	7.2	24
45	CZH02025	98	27	11	1.8	29	2.9	44	2.2	30	6.1	42
5	DK8071	97	27	12	2.3	14	3.6	39	1.4	46	7.8	17
17	SC715	91	28	14	1.5	39	3.1	41	1.4	45	8.2	8
4	ZA8551	90	33	10	1.9	25	3.6	38	2.2	29	6.8	33
39	CZH99052	75	38	9	1.3	41	2.5	47	1.9	40	4.8	48
	Maturity group average	101	24	12	1.7	29	4.0	25	2.1	31	7.4	22
Mean		100	25	12	1.9	.	4.0	.	2.3	.	7.2	.
LSD (0.05)					0.7	.	1.3	.	0.9	.	1.4	.
p					***		***		**		***	
Min		72	14	7	0.7	.	2.1	.	1.4	.	4.8	.
Max		121	41	15	3.4	.	5.7	.	3.5	.	9.3	.
NumSignificantSites		4	4	4	1	.	1	.	1	.	1	.

Entry Name	Across			N Stress - Grain Yields											
	Rel GY	Rank		Across		Arusha Tan		Harare Zim		Chitedze Mal		Harare Zim		Ilonga Tan	
	%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 69 - 72 days															
33 CZH01015	111	18	12	2.8	13	3.8	7	2.3	20	2.3	17	2.5	11	3.1	11
20 98C2890	103	22	13	2.9	15	4.4	2	2.2	29	2.2	21	2.8	1	2.9	21
25 CZH00025	101	23	12	2.6	19	2.6	35	2.5	16	1.9	33	2.5	6	3.3	3
19 SC633	99	24	14	2.1	36	2.8	29	1.6	42	1.8	35	1.6	41	2.6	32
9 PAN47 = PAN5503	100	24	12	2.3	28	2.2	44	2.2	26	2.1	25	1.8	36	3.1	8
41 CZH99055	85	33	13	1.8	40	2.1	45	1.3	46	0.9	47	1.7	37	2.8	27
Maturity group average	100	24	13	2.4	25	3.0	27	2.0	30	1.9	30	2.2	22	3.0	17
Entries with anthesis date between 72 - 74 days															
31 CZH02020	121	14	12	3.1	15	5.1	1	2.4	18	3.4	1	2.3	18	2.4	36
28 CZH00026	115	14	10	2.9	15	4.3	3	2.8	4	2.0	32	2.1	24	3.1	10
32 CZH02021	117	15	11	3.0	9	3.7	9	2.8	5	3.1	7	2.7	3	2.8	23
29 CZH02018	117	16	12	3.0	9	3.6	10	2.7	9	3.4	2	2.5	7	3.0	18
24 CZH99037	113	16	10	2.7	17	3.2	19	3.0	2	2.1	24	2.4	13	2.8	26
10 PAN57	114	18	12	2.6	20	3.4	15	2.6	11	1.6	38	2.4	14	2.8	24
16 PHB30D53	107	18	14	2.9	15	3.6	11	2.5	15	3.1	9	2.6	5	2.6	34
21 00C5351	110	19	13	2.6	22	3.0	25	1.6	40	3.2	5	2.1	27	3.1	12
18 SC713	104	20	15	2.5	25	3.5	13	1.5	43	3.1	8	2.2	21	2.3	42
6 PAN15	106	21	11	2.4	26	3.4	14	2.3	23	2.1	27	1.9	31	2.5	35
7 PAN33	105	22	10	2.4	28	2.7	31	2.1	30	2.8	12	2.1	25	2.3	43
46 CZH02026	105	22	13	2.8	12	4.0	5	2.0	32	2.4	16	2.7	2	3.1	7
13 PHB30H83	100	22	14	2.4	26	3.4	16	2.1	31	2.2	23	1.8	33	2.7	29
15 PHB30T47	101	23	12	2.7	17	3.1	23	2.7	8	2.7	14	2.3	16	2.9	22
43 CZH02023	103	24	14	2.7	15	2.9	26	3.2	1	1.7	36	2.5	9	3.2	4
14 PHB30G97	98	27	11	2.2	28	2.7	30	2.2	25	2.2	20	2.2	22	1.9	45
11 PAN77	96	27	13	2.0	38	2.3	42	1.2	48	1.8	34	1.9	32	2.6	33
38 CZH01018	93	27	12	2.6	16	2.5	36	2.7	6	2.5	15	2.4	12	3.1	9
12 PHB30R73	94	27	12	2.4	25	2.5	37	2.9	3	1.4	42	2.2	23	3.0	20
42 CZH02022	99	29	13	2.2	31	3.0	24	1.9	36	1.4	43	1.8	35	3.0	16
3 DK8051	89	32	11	2.1	33	2.4	39	1.4	45	2.2	19	1.7	38	2.8	25
48 LOCAL CHECK 2	85	33	15	1.6	40	0.8	48	2.4	19	1.5	41	1.2	48	2.2	48
47 LOCAL CHECK 1	87	33	13	1.8	41	1.9	47	2.2	27	1.7	37	1.4	45	1.7	47
22 MM603N	87	33	13	1.8	42	2.1	46	1.5	44	1.0	46	1.6	42	2.7	31
40 CZH99061	79	37	11	1.8	41	2.6	34	1.3	47	1.5	40	1.3	46	2.4	39
8 PAN45	72	40	10	1.7	40	2.4	41	2.0	33	0.8	48	2.0	28	1.5	48
23 GV704N	72	41	7	1.8	39	3.1	22	1.8	37	1.0	45	1.3	47	1.9	46
Maturity group average	100	25	12	2.4	25	3.0	25	2.2	24	2.2	25	2.1	25	2.6	28
Entries with anthesis date > 74 days															
26 CZH01011	115	15	11	2.9	12	3.5	12	2.4	17	3.2	8	2.5	8	3.0	15
30 CZH02019	114	15	13	2.7	18	2.4	40	2.6	14	3.4	3	2.1	26	3.1	6
37 CZH01017	109	19	12	2.7	21	3.1	21	2.3	21	3.3	4	2.3	19	2.4	38
35 CZH99021	106	19	14	3.1	10	4.1	4	2.7	10	2.3	18	2.3	17	4.2	1
34 CZH01020	108	20	11	3.0	10	3.7	8	2.7	7	2.7	13	1.6	4	3.0	17
27 CZH01012	104	21	12	2.7	21	3.8	6	1.8	38	2.9	10	2.5	10	3.4	40
36 CZH99030	102	22	13	2.5	24	3.4	17	2.0	34	2.0	29	2.2	20	3.0	19
2 GV659 = B41/L12	99	24	14	2.5	22	3.2	18	1.9	35	2.2	22	1.8	34	3.4	2
44 CZH02024	100	25	11	2.4	22	2.8	38	2.6	12	2.1	26	1.9	30	3.1	5
1 GV640 = B40/L917	100	25	14	2.2	31	2.3	43	2.3	22	1.6	39	1.7	39	3.0	13
45 CZH02025	98	27	11	2.3	31	3.2	20	1.7	39	2.1	28	1.7	40	2.7	30
5 DK8071	97	27	12	2.4	26	2.8	28	2.6	13	1.4	44	1.4	15	2.8	28
17 SC715	91	28	14	2.3	30	2.6	33	2.2	24	2.9	11	1.3	43	2.4	44
4 ZA8551	90	33	10	2.3	29	2.9	27	2.2	28	2.0	30	1.4	44	3.0	14
39 CZH99052	75	38	9	2.1	34	2.7	32	1.6	41	2.0	31	2.0	29	2.4	37
Maturity group average	100	24	12	2.5	23	3.1	23	2.2	24	2.4	21	2.1	25	2.9	20
Mean	100	25	11	2.4	25	3.0	25	2.2	24	2.2	25	2.1	25	2.7	28
LSB (0.05)				0.4		1.2		0.8		1.6		0.8		0.8	
P						***		***		***		***		***	
Min	72	41	7	1.6	9	0.8	48	1.2	48	0.8	48	1.2	48	1.5	48
Max	121	14	11	3.1	12	5.1	1	3.2	17	3.4	1	2.3	18	2.4	36
Num Significant Sites	41	41	41	5	1	1	1	1	1	1	1	1	1	1	1

ILHYB03: Results of evaluation of intermediate to late maturing hybrids from CIMMYT, Monsanto, Pannar, Pioneer, Seed Co and Zamseed across 49 sites in eastern and southern Africa, 2002/03.

Table 6L

Entry	Name	Low pH - Grain Yields														
		Across			Across											
		Rel GY	Rank		Across		Misamfu Zam		Marondera Zim		Lunyangwa Mal		Marondera Zim		Marondera Zim	
%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 69 - 72 days																
33	CZH01015	111	18	12	1.0	27	2.2	33	0.9	19	1.4	15	0.8	43	1.3	31
20	98C2890	103	22	13	0.9	27	3.2	3	1.0	18	0.6	46	1.0	38	1.3	27
25	CZH00025	101	23	12	0.8	35	2.3	29	0.4	44	0.8	37	1.6	11	1.0	39
19	SC633	99	24	14	0.7	34	2.7	13	0.9	21	0.3	48	0.8	44	1.1	36
9	PAN47 = PAN5503	100	24	12	1.0	24	2.8	11	1.0	15	1.3	20	0.9	41	1.6	12
41	CZH99055	85	33	13	0.9	32	2.2	32	0.5	42	0.6	45	1.7	9	1.5	20
	Maturity group average	100	24	13	0.9	30	2.6	20	0.8	27	0.8	35	1.1	31	1.3	28
Entries with anthesis date between 72 - 74 days																
31	CZH02020	121	14	12	1.2	16	2.9	10	0.8	26	1.4	10	1.2	28	2.2	3
28	CZH00026	115	14	10	1.1	21	2.6	17	1.0	17	1.4	12	0.9	40	1.5	19
32	CZH02021	117	15	11	1.4	15	2.5	24	1.7	1	1.9	2	1.8	5	0.9	44
29	CZH02018	117	16	12	1.1	22	2.7	14	1.5	2	1.4	14	1.2	25	1.4	23
24	CZH99037	113	16	10	1.3	16	2.5	22	0.7	32	1.2	22	1.9	4	2.0	6
10	PAN57	114	18	12	1.2	18	2.0	38	1.1	12	1.7	5	1.6	13	1.5	21
16	PHB30D53	107	18	14	1.0	25	2.7	15	0.7	35	0.7	40	1.4	19	1.6	11
21	00C5351	110	19	13	1.3	14	3.5	1	0.9	24	1.9	1	1.3	22	2.0	5
18	SC713	104	20	15	1.3	14	2.5	21	0.8	31	1.3	19	1.7	8	2.2	1
6	PAN15	106	21	11	1.1	23	2.6	18	0.8	29	0.7	38	1.1	29	1.5	17
7	PAN33	105	22	10	1.2	21	3.1	5	0.6	38	1.9	3	1.3	23	1.8	9
46	CZH02026	105	22	13	1.2	18	2.0	40	1.4	5	0.9	31	2.0	2	1.7	10
13	PHB30H83	100	22	14	1.2	19	2.0	39	1.3	7	0.6	44	2.0	3	1.6	16
15	PHB30T47	101	23	12	1.1	25	3.0	6	1.1	13	0.7	41	2.4	1	1.3	30
43	CZH02023	103	24	14	1.2	21	2.5	20	1.2	8	0.9	34	1.6	12	2.1	4
14	PHB30G97	98	27	11	1.0	26	3.0	7	1.5	3	1.2	25	1.0	36	1.2	32
11	PAN77	96	27	13	1.1	20	1.9	43	1.0	16	0.9	35	1.4	20	1.4	25
38	CZH01018	93	27	12	0.9	33	2.4	27	0.6	39	1.5	9	0.9	42	1.1	35
12	PHB30R73	94	27	12	0.9	28	1.9	41	0.8	27	0.4	47	1.1	33	1.4	22
42	CZH02022	99	29	13	1.1	22	2.9	8	0.8	28	1.2	23	1.0	39	1.6	14
3	DK8051	89	32	11	1.0	25	2.0	37	0.4	45	1.7	6	0.7	48	1.8	8
48	LOCAL CHECK 2	85	33	15	1.1	21	2.9	9	1.4	4	1.1	27	1.6	10	1.0	38
47	LOCAL CHECK 1	87	33	13	0.7	32	2.2	35	0.4	43	1.4	11	1.0	37	0.2	48
22	MM603N	87	33	13	1.2	16	2.2	31	1.3	6	1.0	29	1.5	17	1.5	18
40	CZH99061	79	37	11	0.7	38	1.5	46	0.3	47	0.9	33	1.2	26	0.6	47
8	PAN45	72	40	10	0.8	35	1.9	44	0.6	37	1.0	30	1.1	35	0.8	46
23	GV704N	72	41	7	0.8	36	2.3	30	0.7	36	0.7	42	1.1	30	1.0	37
	Maturity group average	100	25	12	1.1	23	2.5	24	0.9	23	1.2	23	1.4	22	1.4	22
Entries with anthesis date > 74 days																
26	CZH01011	115	15	11	0.9	31	2.8	12	0.8	30	1.2	24	0.8	46	1.3	28
30	CZH02019	114	15	13	0.9	30	2.5	23	0.9	22	1.3	18	1.6	15	0.8	45
37	CZH01017	109	19	12	1.1	19	3.4	2	0.5	40	1.4	13	1.8	7	1.4	24
35	CZH99021	106	19	14	1.1	25	2.7	16	0.3	48	1.3	16	1.5	16	2.2	2
34	CZH01020	108	20	11	1.1	22	2.4	28	0.7	35	1.8	4	1.2	28	1.2	34
27	CZH01012	104	21	12	0.9	29	2.5	19	1.1	14	0.9	32	1.1	31	1.0	40
36	CZH99030	102	22	13	1.0	24	2.5	25	1.2	9	1.0	28	1.1	34	0.9	43
2	GV659 = B41/L12	99	24	14	0.9	31	1.3	48	1.1	11	0.8	36	1.1	32	0.9	42
44	CZH02024	100	25	11	1.2	17	2.4	26	0.9	23	1.3	17	1.6	14	1.8	7
1	GV640 = B40/L917	100	25	14	1.3	14	1.9	42	1.2	10	1.6	8	1.4	18	1.3	26
45	CZH02025	98	27	11	1.0	28	2.1	36	0.8	25	1.3	21	0.8	47	1.6	15
5	DK8071	97	27	12	1.3	13	1.9	45	0.7	33	1.6	7	1.8	6	1.6	13
17	SC715	91	28	14	0.9	30	3.1	4	0.9	20	0.7	39	1.2	24	1.2	33
4	ZA8551	90	33	10	0.9	27	2.2	34	0.4	46	1.2	26	1.3	21	0.9	41
39	CZH99052	75	38	9	0.7	39	1.4	47	0.5	41	0.6	43	0.8	45	1.3	29
	Maturity group average	101	24	12	1.0	25	2.3	27	0.8	27	1.2	22	1.3	26	1.3	28
Mean		100	25	12	1.0	25	2.4	.	0.9	.	1.1	.	1.3	.	1.4	.
LSD (0.05)					0.3		1.1	.	0.5	.	0.9	.	0.8	.	0.8	.
p							ns		***		.		.		**	
Min		72	14	7	0.7	13	1.3	.	0.3	.	0.3	.	0.7	.	0.2	.
Max		121	41	15	1.4	39	3.5	.	1.7	.	1.9	.	2.4	.	2.2	.
NumSignificantSites		41	41	41	5		0		1		1		1		1	

ILHYB03: Results of evaluation of intermediate to late maturing hybrids from CIMMYT, Monsanto, Pannar, Pioneer, Seed Co and Zamseed across 49 sites in eastern and southern Africa, 2002/03. Table 6M

Entry	Name	Across		Low pH - Grain Yields		MSV - Grain Yields		N Stress			Low pH			Zone E		
		Rel GY		Rank		Marondera Zim		Harare Zim		ASI	Ears/Plant	Leaf Series	ASI	Ears/Plant	Leaf Roll	Leaf Series
		%	Avg	Stdev	t/ha	Rank	t/ha	Rank	d	#	1-10	d	d	#	1-5	1-10
Entries with anthesis date between 69 - 72 days																
33	CZH01015	111	18	12	0.4	27	11.7	15	3.6	0.9	4.1	6.2	3.5	0.87	2.9	5.0
20	98C2890	103	22	13	0.8	7	12.0	12	3.0	0.9	4.3	5.9	3.2	0.91	2.0	5.6
25	CZH00025	101	23	12	0.2	43	11.1	22	4.5	0.9	4.6	11.5	2.9	0.93	2.5	5.9
19	SC633	99	24	14	0.5	21	11.7	14	6.9	0.7	4.4	7.7	5.2	0.75	3.0	5.2
9	PAN47 = PAN5503	100	24	12	0.4	31	4.5	42	4.9	0.8	4.4	8.2	3.6	0.90	2.7	6.1
41	CZH99055	85	33	13	0.2	44	7.6	37	6.3	0.8	4.7	4.7	4.3	0.90	2.0	5.9
	Maturity group average	100	24	13	0.4	29	9.8	24	4.8	0.8	4.4	7.4	3.8	0.88	2.4	5.6
Entries with anthesis date between 72 - 74 days																
31	CZH02020	121	14	12	0.6	15	11.5	16	4.1	0.8	3.4	6.5	4.2	0.95	1.9	4.8
28	CZH00026	115	14	10	0.6	18	12.5	6	5.5	0.8	4.0	17.6	3.2	0.86	3.0	4.7
32	CZH02021	117	15	11	0.5	22	12.0	11	4.5	0.9	3.9	2.1	3.5	0.91	3.0	5.8
29	CZH02018	117	16	12	0.1	47	12.6	5	3.9	0.9	3.7	13.8	3.0	0.91	2.2	4.9
24	CZH99037	113	16	10	0.6	14	11.1	23	4.6	0.9	4.1	4.5	3.3	0.88	2.0	5.2
10	PAN57	114	18	12	0.3	38	10.6	25	5.4	0.9	4.2	2.5	2.5	0.86	3.7	5.8
16	PHB30D53	107	18	14	0.6	19	3.7	44	3.5	0.9	3.8	9.2	4.0	0.88	3.0	5.2
21	00C5351	110	19	13	0.6	17	10.4	27	6.2	0.8	3.9	8.0	5.1	0.84	2.3	5.8
18	SC713	104	20	15	0.7	10	13.9	1	6.6	0.7	3.8	22.4	6.3	0.78	2.7	5.6
6	PAN15	106	21	11	1.1	1	12.8	3	5.6	0.8	4.1	13.2	2.9	0.85	3.3	6.4
7	PAN33	105	22	10	0.3	33	10.2	29	7.2	0.6	3.7	4.7	6.5	0.86	3.0	5.4
46	CZH02026	105	22	13	0.3	40	8.7	34	3.3	0.8	4.3	13.0	4.3	0.88	2.4	5.0
13	PHB30H83	100	22	14	0.5	24	2.1	47	5.7	0.6	3.5	8.6	4.8	0.75	3.0	6.1
15	PHB30T47	101	23	12	0.2	42	4.5	41	5.8	0.9	3.8	4.6	6.5	0.80	2.6	5.5
43	CZH02023	103	24	14	0.2	46	10.4	28	3.4	0.9	3.9	11.9	3.9	0.89	2.4	5.1
14	PHB30G97	98	27	11	0.4	32	8.6	35	4.3	0.8	4.2	10.0	3.3	0.80	2.0	6.0
11	PAN77	96	27	13	0.9	3	9.7	31	8.0	0.8	4.1	14.3	4.7	0.84	2.7	6.4
38	CZH01018	93	27	12	0.3	41	12.1	10	4.8	0.9	4.1	17.9	4.5	0.76	3.3	5.3
12	PHB30R73	94	27	12	0.7	13	1.9	48	5.1	0.9	4.1	11.6	4.3	0.84	2.3	5.8
42	CZH02022	99	29	13	0.8	5	11.3	21	4.2	0.9	4.1	5.4	2.9	0.84	3.0	6.6
3	DK8051	89	32	11	0.6	16	4.0	43	6.1	0.7	4.0	13.4	4.7	0.80	3.0	5.6
48	LOCAL CHECK 2	85	33	15	0.4	28	3.4	45	6.5	0.7	3.9	11.3	7.8	0.63	3.0	6.0
47	LOCAL CHECK 1	87	33	13	0.5	20	11.7	13	7.2	0.7	4.3	13.6	4.6	0.79	3.3	5.8
22	MM603N	87	33	13	0.7	12	7.3	38	8.5	0.8	4.4	14.5	5.5	0.74	2.4	5.9
40	CZH99061	79	37	11	0.3	39	6.9	39	6.4	0.7	4.6	17.9	5.0	0.77	2.7	6.3
8	PAN45	72	40	10	0.5	25	9.3	33	6.9	0.8	3.9	5.3	3.9	0.71	3.9	6.6
23	GV704N	72	41	7	0.3	34	6.0	40	8.5	0.6	3.5	8.7	6.1	0.66	2.7	5.6
	Maturity group average	100	25	12	0.5	24	8.9	27	5.6	0.80	4.0	10.6	4.4	0.82	2.8	5.7
Entries with anthesis date > 74 days																
26	CZH01011	115	15	11	0.4	29	12.9	2	4.4	0.85	3.8	11.1	3.5	0.88	2.4	6.0
30	CZH02019	114	15	13	0.1	48	12.2	9	4.2	0.84	4.1	19.8	3.6	0.82	1.9	4.8
37	CZH01017	109	19	12	0.7	11	12.4	8	5.0	0.80	3.9	18.5	6.4	0.81	2.4	5.0
35	CZH99021	106	19	14	0.2	45	10.5	26	5.7	0.92	4.0	11.0	5.4	0.76	2.4	5.6
34	CZH01020	108	20	11	0.7	9	8.5	36	4.4	0.87	4.0	6.5	3.5	0.85	2.3	5.4
27	CZH01012	104	21	12	0.4	26	11.3	20	5.6	0.80	4.1	4.8	3.1	0.90	2.3	5.0
36	CZH99030	102	22	13	0.7	8	11.4	19	5.4	0.84	4.2	10.6	4.6	0.76	3.3	6.1
2	GV659 = B41/L12	99	24	14	0.3	35	12.5	7	6.3	0.74	4.1	24.5	6.5	0.82	2.3	4.8
44	CZH02024	100	25	11	0.5	23	12.8	4	5.1	0.88	4.4	8.2	4.6	0.85	1.9	5.8
1	GV640 = B40/L917	100	25	14	0.8	6	11.5	17	5.5	0.83	3.7	15.8	7.6	0.77	1.9	5.4
45	CZH02025	98	27	11	0.4	30	11.4	18	4.5	0.81	4.0	18.2	4.3	0.85	2.0	5.8
5	DK8071	97	27	12	0.8	4	9.5	32	5.7	0.84	4.1	23.3	5.3	0.85	3.0	5.5
17	SC715	91	28	14	0.3	35	10.1	30	6.4	0.76	3.9	21.5	6.8	0.72	3.0	5.6
4	ZA8551	90	33	10	0.9	2	10.6	24	6.0	0.76	4.1	19.6	6.3	0.71	2.6	5.2
39	CZH99052	75	38	9	0.3	37	2.2	46	5.0	0.80	4.7	12.6	4.6	0.60	3.7	6.7
	Maturity group average	101	24	12	0.5	23	10.7	20	5.3	0.82	4.1	11.1	5.0	0.81	2.5	5.5
	Mean	100	25	12	0.5	24	9.5	27	5.4	0.81	4.1	11.6	4.5	0.82	2.6	5.6
	LSD (0.05)				0.5		2.3		1.4	0.08	0.5	8.7	1.7	0.019		
	P				*		***									
	Min	72	14	7	0.1		1.9		3.0	0.59	3.4	2.1	2.5	0.63	1.9	4.7
	Max	121	41	15	1.1		13.9		8.5	0.94	4.6	24.5	7.6	0.95	3.9	6.7
	NumSignificantSites	41	41	41	1		1		5	3	2	1	3	4	1	2

QHYB03: Results of evaluation of Quality Protein Maize Hybrids from CIMMYT, Seed Co and an OPV from CIMMYT across 52 sites in eastern and southern Africa, 2002/03.

Entry Name	Pedigree	Origin	Comments	Across		Bako Eth		Kakamega Ken		Embu Ken		Kisumu Ken		Alupe Ken	
				Rel GY	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank

Table 7C

Entry Name	Pedigree	Origin	Comments	Across		Bako Eth		Kakamega Ken		Embu Ken		Kisumu Ken		Alupe Ken			
				Rel GY	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank		
Entries with anthesis date between 68 - 70 days																	
4	CZH01025		CIMMYT QPM	104	12	6.3	12	4.4	12	5.2	9	8.4	10	7.7	7	5.1	5
11	CZH01034		CIMMYT QPM	92	16	4.8	19	3.5	19	3.0	22	7.9	14	3.0	23	3.9	17
14	CZH02016		CIMMYT QPM	86	17	4.4	22	3.2	20	2.7	23	6.8	22	3.3	22	4.2	12
10	CZH01033		CIMMYT QPM	81	19	4.1	23	2.9	22	3.0	21	5.9	24	2.6	24	2.5	24
Maturity group average				91	16	4.9	19	3.5	18	3.5	19	7.2	18	4.1	19	3.9	15
Entries with anthesis date between 70 - 72 days																	
22	CZH01008 (Normal Check2)		CIMMYT Non-QPM	119	6	7.3	6	4.1	14	6.0	5	10.7	1	8.0	4	4.4	11
20	02C3728		Seed Co QPM	110	8	6.7	7	5.6	4	4.8	10	8.7	7	5.9	12	4.2	13
19	CZH01028		CIMMYT QPM	108	9	7.2	5	5.7	3	6.2	4	9.7	3	7.1	8	5.2	3
17	CZH01024		CIMMYT QPM	107	10	6.7	9	4.9	7	6.5	2	8.5	9	7.8	6	5.7	1
2	CZH01031		CIMMYT QPM	111	10	6.6	10	4.4	13	5.7	7	7.8	15	8.2	3	3.8	19
1	CZH01029		CIMMYT QPM	110	10	6.4	10	5.6	5	4.4	12	9.0	5	4.8	19	4.9	7
3	CZH01030		CIMMYT QPM	105	11	8.2	10	4.6	10	3.9	18	9.1	4	4.2	20	4.8	10
8	CZH01021		CIMMYT QPM	101	11	6.1	12	4.7	8	4.4	13	8.3	13	5.8	13	4.9	8
16	CZH01022		CIMMYT QPM	103	11	6.3	12	4.0	16	5.9	6	8.4	11	6.8	9	5.6	2
18	CZH01032		CIMMYT QPM	104	11	6.4	11	4.6	9	6.5	3	7.8	16	7.9	5	4.1	14
6	CZH99051		CIMMYT QPM	99	13	7.2	5	5.5	6	5.6	8	8.9	6	8.5	1	4.9	9
5	CZH01027		CIMMYT QPM	97	13	6.0	13	4.1	15	4.2	15	7.4	19	5.5	16	4.1	16
9	CZH01023		CIMMYT QPM	98	13	6.0	13	3.8	17	4.5	11	7.7	17	6.6	11	3.7	20
13	CZH99061		CIMMYT QPM	93	14	5.6	15	4.4	11	4.1	16	7.6	18	5.6	15	4.9	6
12	CZH99055		CIMMYT QPM	88	17	5.6	17	3.6	18	3.9	19	8.4	12	5.0	18	3.5	21
15	OBATANPA-ZMSRc1F2		CIMMYT QPM	78	20	4.4	22	2.9	21	2.3	24	7.2	20	3.6	21	3.3	23
Maturity group average				102	12	6.3	11	4.5	11	4.9	11	8.5	11	6.3	11	4.5	11
Entries with anthesis date > 72 days																	
21	CZH00026 (Normal Check1)		CIMMYT Non-QPM	120	5	7.1	5	6.1	1	4.2	14	9.9	2	6.7	10	5.1	4
24	Local Check 2		Various Non-QPM	108	11	6.5	11	5.9	2	4.0	17	7.0	21	5.7	14	3.4	22
23	Local Check 1		Various Non-QPM	96	14	6.2	12	2.8	23	6.7	1	8.6	8	8.2	2	4.1	15
7	CZH99052		CIMMYT QPM	80	19	4	19	2.7	24	3.6	20	6.5	23	5.3	17	3.8	18
Maturity group average				101	12	6.2	12	4.4	13	4.6	13	8.0	14	6.5	11	4.1	15
Mean				100	12	6.1	12	4.3	12	4.6	12	8.2	14	6.0	11	4.3	15
LSD (0.05)						0.5		1.2		1.4		1.5		1.5		1.6	
p																	
Min				78	5	4	5	2.7	23	2.3	24	5.9	21	2.6	21	2.5	23
Max				120	20	5	23	6.1	1	6.7	1	10.7	1	8.5	1	5.7	1
NumSignificantSites				40	40	40	8	1	1	1	1	1	1	1	1	1	0

QHYB03: Results of evaluation of Quality Protein Maize Hybrids from CIMMYT, Seed Co and an OPV from CIMMYT across 52 sites in eastern and southern Africa, 2002/03.

Entry Name	Across			Mid Altitudes Eastern Africa - Grain Yields			Mid Alt Humid Warm (Zone A) - Grain Yields												
	Rel GY	Rank	Stdev	Kifale Ken	Namulonge Uga	Serege Uga	Bulgewi Uga	Melkasa Elh	Across	Mbulumbulu Tan	ART_Farm Zim								
%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank							
Entries with anthesis date between 68 - 70 days																			
4 CZH01025	104	12	6	5.4	5	3.8	21	5.7	15	8.0	17	7.6	13	4.6	12	3.6	17	7.0	15
11 CZH01034	92	16	5	3.5	21	4.3	17	5.9	10	6.1	22	7.2	17	4.0	17	3.5	18	6.3	19
14 CZH02016	86	17	7	3.3	22	2.7	23	5.0	21	5.9	24	7.3	16	3.6	21	3.4	19	5.4	24
10 CZH01033	81	19	4	2.7	24	3.5	22	5.0	20	6.1	23	6.1	23	3.6	20	3.1	21	5.4	23
Maturity group average	91	16	5	3.7	18	3.6	21	5.4	17	6.5	22	7.1	17	3.9	18	3.4	19	6.0	20
Entries with anthesis date between 70 - 72 days																			
22 CZH01008 (Normal Check2)	119	6	5	6.5	2	5.3	5	7.4	1	9.6	7	7.8	10	5.3	6	3.9	12	8.3	6
20 DCP3728	110	8	6	5.4	4	4.4	15	5.0	14	9.8	4	9.1	2	5.3	7	4.6	3	7.6	11
19 CZH01028	108	9	6	4.8	10	5.0	7	5.8	13	10.6	1	8.6	4	5.0	9	3.8	13	8.6	5
17 CZH01024	107	10	6	3.6	20	5.5	2	6.1	9	9.2	8	7.1	18	4.8	11	4.1	9	8.8	4
2 CZH01031	111	10	6	5.3	7	4.7	9	6.8	3	8.9	11	7.7	12	4.9	10	4.1	5	7.0	14
1 CZH01029	110	10	6	3.9	19	5.5	4	6.4	7	9.6	6	8.0	9	5.2	7	4.3	4	8.2	9
3 CZH01030	105	11	7	4.7	11	5.5	3	6.4	6	9.1	9	8.6	5	5.2	7	3.7	16	9.3	3
8 CZH01021	101	11	6	4.2	16	4.5	14	6.8	2	8.9	10	7.7	11	5.0	11	4.1	8	9.5	2
16 CZH01022	103	11	6	4.4	15	4.5	12	5.8	12	9.6	5	7.0	20	4.7	11	4.7	2	8.0	10
18 CZH01032	104	11	6	4.0	18	4.1	18	6.3	8	8.1	16	8.6	6	4.8	10	4.0	11	7.3	12
6 CZH99051	99	13	6	5.7	3	4.8	8	5.8	11	10.3	3	8.5	7	4.6	14	3.7	15	7.1	13
5 CZH01027	97	13	6	4.5	14	4.6	10	5.4	18	8.8	12	8.9	3	4.6	12	4.1	6	6.1	21
9 CZH01023	96	13	5	4.9	9	4.5	13	6.5	5	7.6	19	8.4	8	4.3	15	4.0	10	6.1	20
13 CZH99061	93	14	6	4.7	12	2.5	24	5.7	17	8.5	13	7.6	14	4.5	12	4.1	7	6.7	17
12 CZH99055	88	17	5	4.1	17	4.0	19	6.5	4	8.2	15	7.4	15	4.0	17	2.9	22	6.7	16
15 QBATANPA-ZMSRc1F2	78	20	5	3.2	23	3.8	20	5.3	19	6.3	21	6.2	22	3.7	19	3.2	20	6.3	18
Maturity group average	102	12	6	4.6	13	4.6	11	6.2	9	9.0	10	7.9	10	4.7	11	3.9	10	7.6	11
Entries with anthesis date > 72 days																			
21 CZH00028 (Normal Check1)	120	5	5	5.3	6	5.2	6	5.7	16	10.3	2	9.2	1	6.1	2	5.1	1	10.1	1
24 Local Check 2	108	11	8	7.3	1	6.3	1	3.9	24	8.3	14	7.1	19	4.4	17	2.8	23	8.2	8
23 Local Check 1	96	14	8	4.9	8	4.3	16	4.8	23	7.5	20	6.7	21	4.7	13	2.6	24	8.3	7
7 CZH99052	80	19	4	4.6	13	4.5	11	4.9	22	7.8	18	5.9	24	4.1	18	3.7	14	6.0	22
Maturity group average	101	12	6	5.5	7	5.1	9	4.8	21	8.5	14	7.2	16	4.8	13	3.6	16	8.2	10
Mean	100	12	6	4.6	10	4.5	10	5.8	10	8.5	14	7.7	16	4.8	12	3.8	16	7.4	10
LSD (0.05)				1.3	10	1.5	10	1.5	10	1.6	10	1.7	10	0.5	10	0.9	10	2.1	10
P				***	10	*	10	+	10	***	10	*	10	**	10	**	10	**	10
Min	78	5	4	2.7	10	2.5	10	3.9	10	5.9	10	5.9	10	3.6	2	2.6	10	5.4	10
Max	120	20	8	7.3	10	6.3	10	7.4	10	10.6	10	9.2	10	6.1	21	5.1	10	10.1	10
NumSignificantSites	40	46	40	1	1	1	0	0	1	1	1	1	1	6	1	1	1	1	1

QHVB03: Results of evaluation of Quality Protein Maize Hybrids from CIMMYT, Seed Co and an OPV from CIMMYT across 52 sites in eastern and southern Africa, 2002/03.

Table 7E

Entry Name	Across			Mid Alt Humid Warm (Zone A) - Grain Yields						Mid Alt Humid Hot (Zone B) - Grain Yields											
	Rel GY	Rank		Rairray_Arnold Zim	Chitedze Mal	Bvumbwe Mal	Lichinga Moz	Across	Mazozo Ang	Chitabis Mal	Makoka Mal	Angonla-Tete Moz	Rank	t/ha	Rank	t/ha	Rank	t/ha			
%	Avg	Slidev	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha			
Entries with anthesis date between 68 - 70 days																					
4 CZH01025	104	12	6	0.6	7	8.5	11	4.5	8	3.4	15	4.3	17	4.3	6	5.6	18	5.1	20	5.8	15
11 CZH01034	92	16	5	0.6	8	6.4	21	3.5	21	3.5	13	3.8	20	3.2	21	4.7	24	4.4	24	4.6	20
14 CZH02016	86	17	7	0.6	18	5.8	22	3.2	24	3.3	19	4.0	19	3.2	20	4.7	23	5.3	17	5.1	17
10 CZH01033	81	19	4	0.6	19	5.5	23	3.7	19	3.4	16	3.9	20	3.3	19	5.5	20	4.7	22	4.2	22
Maturity group average	91	16	5	0.6	13	6.5	19	3.7	18	3.4	16	4.0	19	3.5	17	5.1	21	4.9	21	4.9	19
Entries with anthesis date between 70 - 72 days																					
22 CZH01008 (Normal Check2)	119	6	5	0.9	1	10.4	1	4.9	4	3.6	10	6	5	5.8	1	6.8	3	7.3	4	7.1	2
20 02C3728	110	8	6	0.5	21	9.3	5	5.3	1	4.8	2	5	6	4.2	7	6.1	11	7.5	3	6.3	10
19 CZH01028	108	9	6	0.8	3	8.6	10	4.3	12	3.7	9	5.1	7	3.9	11	6.5	4	6.3	11	6.9	3
17 CZH01024	107	10	6	0.6	14	7.1	19	4.0	18	4.4	3	5.0	8	3.5	14	6.1	10	7.0	5	6.6	7
2 CZH01031	111	10	6	0.5	22	9.2	7	4.5	10	4.4	4	5.2	8	4.5	5	6.4	5	7.7	1	6.6	6
1 CZH01029	110	10	6	0.7	4	9.9	2	4.1	14	3.9	6	5.2	6	5.1	2	6.1	12	6.7	8	6.1	11
3 CZH01030	105	11	7	0.7	6	9.2	6	4.7	6	3.8	7	4.7	12	4.2	9	5.8	15	5.7	16	6.9	4
8 CZH01021	101	11	6	0.6	13	8.3	13	4.5	9	2.8	22	5.0	7	4.6	4	6.3	8	5.8	14	6.7	5
16 CZH01022	103	11	6	0.7	5	8.2	14	3.3	22	3.4	14	4.6	14	3.5	13	5.5	19	6.7	7	6.4	9
18 CZH01032	104	11	6	0.6	11	8.1	15	4.7	7	4.2	5	4.9	10	4.2	8	5.9	14	6.9	6	6.0	12
6 CZH99051	99	13	6	0.6	17	8.4	12	4.1	17	3.5	12	4.4	16	2.9	23	6.0	13	6.4	10	5.9	14
5 CZH01027	97	13	6	0.6	16	8.7	8	4.8	5	3.3	18	4.5	13	3.5	17	7.0	1	5.2	18	6.5	8
9 CZH01023	98	13	5	0.6	15	7.5	17	4.3	13	3.3	17	4.4	14	3.5	16	6.1	9	6.1	12	5.6	16
13 CZH99061	93	14	6	0.6	9	7.8	16	4.1	15	3.7	9	4.7	11	4.6	3	6.4	6	5.1	19	6.0	13
12 CZH99055	88	17	5	0.6	12	7.0	20	3.3	23	3.5	11	3.9	18	2.9	22	5.8	16	4.6	23	4.7	19
15 OBATANPA-ZMSRc1F2	78	20	5	0.6	10	5.3	24	3.6	20	3.0	21	3.9	19	3.5	15	4.9	22	5.0	21	3.8	23
Maturity group average	102	12	6	0.6	11	8.3	12	4.3	12	3.7	11	4.8	11	4.0	11	6.1	11	6.2	11	6.1	10
Entries with anthesis date > 72 days																					
21 CZH00026 (Normal Check1)	120	5	5	0.9	2	9.9	3	5.1	3	5.6	1	5.5	4	4.0	10	6.8	2	7.6	2	7.9	1
24 Local Check 2	108	11	8	0.5	23	8.7	9	4.1	16	2.1	24	4.1	14	3.6	12	5.8	17	6.1	13	4.7	18
23 Local Check 1	96	14	8	0.5	20	9.5	4	5.3	2	2.2	23	4.0	15	2.8	24	6.4	7	6.7	9	3.6	24
7 CZH99052	80	19	4	0.4	24	7.2	18	4.3	11	3.1	20	4.2	17	3.4	18	5.3	21	5.7	15	4.6	21
Maturity group average	101	12	6	0.6	17	8.8	9	4.7	8	3.2	17	4.4	13	3.4	16	6.1	12	6.5	10	5.2	16
Mean	100	12	6	0.6	17	8.1	9	4.3	8	3.6	17	4.2	13	3.8	16	5.9	12	6.1	10	5.8	16
LSD (0.05)				0.1		1.6		1.0		1.4		0.4		1.2		1.0		1.4		1.0	
p				***		***		**		*				**		***		***		***	
Min	78	5	4	0.4		5.3		3.2		2.1		3.8	4	2.8		4.7		4.4		3.6	
Max	120	20	8	0.9		10.4		5.3		5.6		5.5	20	5.8		7.0		7.7		7.8	
NumSignificantSites	40	40	40	1	1	1	1	1	1	1	1	6	1	1	1	1	1	1	1	1	1

QHYS03: Results of evaluation of Quality Protein Maize Hybrids from CIMMYT, Seed Co and an OPV from CIMMYT across 52 sites in eastern and southern Africa, 2002/03.

Table 7F

Entry Name	Across			Mid Alt Humid Hot (Zone B) - Grain Yields			Mid Alt Dry (Zone C) - Grain Yields			Baka Mal											
	Rel GY	Rank	%	Suasundenga Moz	Mtshekeru Zam	Katrin Tan	Across	Arusha Tan	Makoholi Zim	Umtholuzi Moz	Kadoma Zim	Baka Mal									
	Avg	Stdev	%	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank								
Entries with anthesis date between 60 - 70 days																					
# CZH01025	104	6	12	2.8	21	1.7	24	3.6	17	4.1	14	1.5	6	1.9	16	6.0	11	8.7	14	1.4	17
11 CZH01034	92	5	16	3.2	14	1.7	22	4.1	11	3.7	17	1.5	7	1.7	22	5.9	12	7.3	21	1.4	16
14 CZH02016	86	7	17	2.6	22	1.7	20	3.8	14	3.2	20	1.9	1	1.8	18	4.8	23	6.2	24	0.9	23
10 CZH01033	81	19	4	3.0	18	1.7	23	3.7	16	3.3	20	1.2	16	1.7	23	4.2	24	7.1	23	1.5	14
Maturity group average	91	16	5	2.9	19	1.7	22	3.8	15	3.6	18	1.5	8	1.8	20	5.2	18	7.3	21	1.3	18
Entries with anthesis date between 70 - 75 days																					
22 CZH01008 (Normal Check2)	119	5	6	4.5	1	2.0	11	4.3	8	5.3	6	1.4	11	2.3	1	7.5	2	11.3	1	2.2	4
20 Q2C3728	110	8	8	3.6	10	2.2	6	5.2	1	4.9	5	1.9	4	2.2	4	6.5	7	9.5	8	2.2	2
19 CZH01028	108	9	9	3.4	12	2.1	7	4.8	4	4.4	11	1.9	3	2.0	9	6.2	10	9.1	13	1.6	13
17 CZH01024	107	10	10	3.2	16	2.0	10	4.9	3	4.6	7	1.8	5	1.9	15	7.0	3	9.2	11	2.4	1
2 CZH01031	111	10	6	3.8	4	1.8	19	3.9	13	4.7	7	1.1	20	1.9	12	6.9	4	9.9	5	1.9	8
1 CZH01029	110	10	6	3.0	17	2.3	9	5.2	2	4.5	11	1.0	22	2.3	3	5.6	16	9.8	6	1.9	9
3 CZH01030	105	11	7	3.7	7	2.1	8	3.3	20	4.7	10	1.3	14	1.8	17	6.9	5	10.6	2	1.5	15
8 CZH01021	101	11	6	3.7	6	2.2	5	4.5	5	4.5	9	1.0	23	2.0	8	5.5	18	10.0	4	2.2	3
16 CZH01022	103	11	6	3.7	9	1.8	18	3.7	15	4.3	12	1.4	9	2.0	7	5.1	21	10.3	3	1.7	10
18 CZH01032	104	11	6	4.1	2	1.9	15	4.3	8	4.3	12	1.9	2	1.8	21	5.6	17	9.4	10	1.6	12
6 CZH99051	99	13	6	3.9	3	1.8	17	3.6	18	3.9	15	1.4	12	2.1	6	5.6	15	7.6	20	1.1	19
5 CZH01027	97	13	6	3.7	8	1.9	14	3.1	22	4.3	10	1.1	19	1.9	13	5.7	14	8.4	17	2.1	5
9 CZH01023	98	13	5	3.5	11	1.9	12	3.4	19	4.3	11	1.4	8	2.0	11	6.2	8	8.5	16	1.3	18
13 CZH99061	93	14	6	3.0	19	1.9	13	4.0	12	4.1	15	1.3	13	1.8	20	5.4	20	9.6	7	1.1	20
12 CZH99055	88	17	5	3.3	13	2.0	9	3.2	21	3.6	19	1.2	15	2.0	10	5.7	13	7.8	19	0.8	24
15 OBATANPA-ZMSRC1F2	78	20	5	3.2	15	1.7	21	4.3	9	3.4	22	0.9	24	1.6	24	5.5	19	7.3	22	0.9	22
Maturity group average	102	12	6	3.6	10	2.0	12	4.1	11	4.4	11	1.4	13	2.0	11	6.1	12	9.3	10	1.7	12
Entries with anthesis date > 75 days																					
21 CZH00026 (Normal Check1)	120	5	5	2.9	20	2.3	2	4.3	7	4.9	6	1.2	17	2.3	2	7.8	1	9.2	12	1.7	11
24 Local Check 2	108	11	8	2.4	1	2.1	24	2.1	24	4.8	6	1.1	18	1.8	19	6.2	9	9.5	9	1.9	7
23 Local Check 1	96	14	8	2.6	23	2.2	4	2.3	23	4.3	12	1.4	10	1.9	14	6.7	6	8.6	15	2.0	6
7 CZH99052	80	19	4	3.8	5	1.8	16	4.2	10	3.4	21	1.0	21	2.2	5	4.9	22	8.0	18	1.0	21
Maturity group average	101	12	6	3.1	16	2.2	6	3.2	16	4.3	11	1.2	17	2.1	10	6.4	10	8.8	14	1.7	11
Mean	100	12	6	3.4	16	2.0	11	3.9	16	3.4	12	1.4	14	2.0	11	6.0	10	8.9	14	1.6	11
LSD (0.05)				1.0	10	0.3	13	1.3	11	0.5	12	0.7	11	0.7	11	1.1	11	1.5	11	0.9	11
P				ns	10	**	11	**	11	ns	11	ns	ns	ns	ns	***	11	***	11	ns	11
Min	78	5	4	2.6	17	1.7	21	2.1	16	3.2	5	0.9	16	1.6	16	4.2	11	6.2	11	0.8	11
Max	120	20	8	4.5	2	2.4	2	5.2	2	5.3	22	1.9	23	2.3	2	7.8	11	11.3	11	2.4	11
NumSignificantSites	40	40	40	0	1	1	1	1	1	5	0	0	0	0	1	1	1	1	1	1	1

QH7B03: Results of evaluation of Quality Protein Maize Hybrids from CIMMYT, Seed Co and an OPV from CIMMYT across 52 sites in eastern and southern Africa, 2002/03.

Table 7G

Entry Name	Across			Mid Alt Dry (Zone C) - Grain Yields			Lowland Trop Humid (Zone D) - Grain Yields			Zone E - Grain Yields			
	Rel GY	Rank	Stdev	Potchefstroom RSA	Maikoholi Zim	Kadoma Zim	Across	Calbinda Ang	Ilonga Tan	Ilonga Tan	Across	Goodhope Bot	
%	Avg	Stdev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	
Entries with anthesis date between 68 - 70 days													
4 CZH01025	104	6	3.8	14	0.8	13	3.5	15	3.9	8	4	3.2	4
11 CZH01034	92	5	3.0	22	0.8	16	3.6	14	3.0	21	24	2.2	20
14 CZH02016	86	7	3.0	21	0.9	9	4.1	5	3.2	18	18	3.6	1
10 CZH01033	81	4	3.1	19	0.7	21	3.2	23	3.0	20	22	2.4	16
Maturity group average	91	5	3.2	19	0.8	15	3.6	14	3.3	17	17	2.9	10
Entries with anthesis date between 70 - 72 days													
22 CZH01008 (Normal Check2)	119	5	4.7	4	0.8	17	4.2	4	4.4	3	9	3.1	6
20 02C3728	110	6	5.3	1	0.9	7	3.8	6	3.2	17	15	2.9	9
19 CZH01028	108	6	4.2	9	0.9	11	4.8	1	3.2	16	6	3.3	2
17 CZH01024	107	6	3.1	18	1.1	2	3.6	10	3.8	9	5	2.8	11
2 CZH01031	111	6	3.8	12	0.9	8	3.6	13	4.1	6	3	2.3	18
1 CZH01029	110	6	4.4	8	0.8	14	3.3	20	4.5	1	10	2.8	12
3 CZH01030	105	7	4.0	10	0.7	20	3.4	17	3.3	14	11	3.3	3
8 CZH01021	101	6	3.8	13	1.0	6	2.9	24	3.7	10	7	2.6	14
16 CZH01022	103	6	3.1	20	1.0	4	3.3	18	3.4	13	21	3.1	5
18 CZH01032	104	6	4.0	11	0.8	12	3.4	16	4.0	7	1	2.0	23
6 CZH99051	99	6	4.6	5	0.7	18	3.3	21	2.8	24	2	2.3	17
5 CZH01027	97	6	4.5	6	0.9	10	4.4	3	4.5	2	14	2.8	11
9 CZH01023	98	5	4.5	7	1.0	5	3.6	11	3.4	12	16	2.2	19
13 CZH99061	93	6	3.6	15	0.8	15	3.7	9	3.1	19	8	3.0	7
12 CZH99055	88	5	3.3	17	0.6	23	3.7	8	3.0	22	20	2.9	8
15 OBATANPA-ZMSRc1F2	78	5	2.5	23	0.6	24	3.2	22	2.9	23	23	2.0	24
Maturity group average	102	6	4.0	11	0.8	12	3.6	13	3.6	12	11	2.7	12
Entries with anthesis date > 72 days													
21 CZH00026 (Normal Check1)	120	5	4.7	3	1.3	1	4.5	2	4.4	4	17	2.8	13
24 Local Check 2	108	8	5.1	2	1.1	3	3.6	12	4.1	5	13	2.6	15
23 Local Check 1	96	14	3.4	16	0.7	19	3.8	7	3.3	15	12	2.1	22
7 CZH99052	80	19	2.3	24	0.7	22	3.3	19	3.5	11	7	2.1	21
Maturity group average	101	12	3.9	11	0.9	11	3.8	10	3.8	9	12	2.4	18
Mean	100	6	3.8	9	0.9	11	3.7	13	3.5	13	13	2.7	12
LSD (0.05)			1.4		0.2		1.2		1.0		0.5	0.9	
P			**		***		ns		ns		ns		
Min	78	5	2.3		0.6		2.9		2.8		0.5	2.0	
Max	120	8	5.3		1.3		4.8		4.5		1.6	3.6	
NumSignificantSites	40	40	1	1	1	1	0	1	8	1	0	1	1

QHYB03: Results of evaluation of Quality Protein Maize Hybrids from CIMMYT, Seed Co and an OPV from CIMMYT across 52 sites in eastern and southern Africa, 2002/03.

Table 7H

Entry Name	Across																		
	Rel GY	Rank	Sebele Bot		Arusha Tan		Mazozo Ang		Chiredzi Zim		Chokwe Moz		Nampula Moz		Kiboko Ken		Save Valley Zim		
	%	Avg	Sidev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank
Entries with anthesis date between 68 - 70 days																			
4 CZH01025	104	12	6	0.8	19	2.8	7	1.9	6	2.1	12	3.7	8	3.7	17	0.7	18	3.0	1
11 CZH01034	92	16	5	1.1	9	2.4	11	2.4	5	2.0	14	3.3	16	3.8	15	1.2	4	1.8	18
14 CZH02016	86	17	7	1.4	5	2.2	14	1.2	9	2.4	6	2.9	21	3.3	21	0.7	16	2.3	4
10 CZH01033	81	19	4	0.8	18	2.1	15	0.9	12	1.8	21	3.1	18	3.3	22	1.0	8	2.1	9
Maturity group average	91	16	5	1.0	13	2.4	12	1.6	8	2.1	13	3.2	16	3.5	19	0.9	12	2.3	8
Entries with anthesis date between 70 - 72 days																			
22 CZH01008 (Normal Check2)	119	6	5	1.3	7	2.6	9	0.1	24	1.9	16	3.4	14	5.4	2	0.8	11	2.4	3
20 02C3728	110	8	6	0.9	15	2.5	10	0.4	20	2.7	3	3.1	19	4.6	5	0.9	10	1.9	14
19 CZH01028	108	9	6	1.2	8	2.0	16	0.7	16	3.3	1	3.9	6	5.5	1	0.8	13	2.9	2
17 CZH01024	107	10	6	0.8	20	3.2	5	0.7	14	2.4	5	3.5	12	3.7	16	1.1	7	2.1	8
2 CZH01031	111	10	6	1.8	2	2.9	6	3.5	1	2.1	9	3.6	10	4.3	7	0.9	9	1.6	21
1 CZH01029	110	10	6	1.1	10	2.3	13	3.3	3	1.8	22	3.9	7	3.8	12	1.3	3	2.1	10
3 CZH01030	105	11	7	0.8	17	1.9	19	3.4	2	2.3	7	4.5	1	3.9	11	0.6	20	2.1	7
8 CZH01021	101	11	6	1.0	14	2.4	12	0.3	22	1.8	18	4.3	3	4.3	8	1.2	5	1.5	22
16 CZH01022	103	11	6	1.0	11	3.3	4	0.4	21	2.5	4	4.0	5	4.4	6	1.1	6	1.9	16
18 CZH01032	104	11	6	1.5	3	1.8	23	0.5	18	1.8	20	4.4	2	4.8	3	0.8	12	1.7	19
6 CZH99051	99	13	6	0.7	23	3.5	2	0.5	19	2.1	10	3.6	11	3.8	14	0.4	23	1.9	13
5 CZH01027	97	13	6	1.3	6	2.0	17	1.0	10	1.8	19	3.6	9	3.6	18	0.6	21	1.8	17
9 CZH01023	98	13	5	1.5	4	3.3	3	0.9	13	2.0	13	4.2	4	4.2	9	0.6	22	2.0	11
13 CZH99061	93	14	6	1.8	1	1.9	18	0.6	17	2.0	15	3.2	17	3.3	20	0.7	15	2.2	6
12 CZH99055	88	17	5	1.0	12	1.5	24	1.2	8	2.3	8	2.9	20	2.8	24	0.7	17	1.6	20
15 OBATANPA-ZMSRc1F2	78	20	5	0.8	21	1.9	20	0.9	11	1.3	24	2.4	23	4.0	10	0.2	24	1.2	24
Maturity group average	102	12	6	1.1	11	2.4	13	1.1	14	2.1	12	3.7	10	4.2	10	0.8	14	1.9	13
Entries with anthesis date > 72 days																			
21 CZH00026 (Normal Check1)	120	5	5	0.8	16	3.6	1	0.7	15	1.9	17	3.3	15	4.8	4	1.8	1	2.0	12
24 Local Check 2	108	11	8	1.0	13	2.8	8	2.5	4	3.0	2	2.5	22	3.2	23	1.5	2	2.2	5
23 Local Check 1	96	14	8	0.3	24	1.8	22	1.5	7	2.1	11	2.0	24	3.4	19	0.7	19	1.9	15
7 CZH99052	80	19	4	0.7	22	1.8	21	0.2	23	1.5	23	3.4	13	3.8	13	0.8	14	1.4	23
Maturity group average	101	12	6	0.7	19	2.5	13	1.2	12	2.1	13	2.8	19	3.8	15	1.2	9	1.9	14
Mean	100	12	6	1.1	11	2.4	1	1.2	15	2.1	13	3.4	15	4.0	4	0.9	1	2.0	12
LSD (0.05)				0.7		1.0		1.2		0.8		1.0		1.2		0.7		0.7	
p				*		*		***		*		**		*		ns		**	
Min	78	5	4	0.3		1.5		0.1		1.3		2.0		2.8		0.2		1.2	
Max	120	20	8	1.8		3.6		3.5		3.3		4.5		5.5		1.8		3.0	
NumSignificantSites	40	40	40	1		1		1		1		1		1		0		1	

QH503: Results of evaluation of Quality Protein Maize Hybrids from CIMMYT, Seed Co and an OPV from CIMMYT across 52 sites in eastern and southern Africa, 2002/03.

Table 71

Entry Name	Across		Highlands (Zone F) Gr. Yields				N Stress - Grain Yields									
	Rel GY	Rank	Humpata Ang		Across		Arusha Tan		Mazozo Ang		Harare Zim		Allupe Kon			
%	Avg	Sidev	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank	t/ha	Rank		
Entries with anthesis date between 68 - 70 days																
4 CZH01025	104	12	6	5.5	5	11	2.5	16	2.5	15	2.0	9	2.5	3	1.3	16
11 CZH01034	92	16	5	4.4	18	9	1.9	24	3.2	5	2.1	7	2.2	8	1.3	14
14 CZH02016	86	17	7	4.1	19	11	3.1	8	1.4	23	2.2	4	2.4	5	1.4	13
10 CZH01033	81	19	4	4.1	20	14	2.4	18	3.0	10	1.9	11	1.9	14	0.9	21
Maturity group average	91	16	5	4.5	16	11	2.5	17	2.5	13	2.0	8	2.3	8	1.2	16
Entries with anthesis date between 70 - 72 days																
22 CZH01008 (Normal Check2)	119	6	5	7.0	3	4	3.0	9	3.6	2	2.9	1	2.3	7	1.8	6
20 O2C3728	110	8	6	7.5	1	7	2.8	14	3.4	4	1.5	22	2.8	2	2.9	1
19 CZH01028	108	9	6	5.3	7	16	2.3	20	1.4	22	1.8	14	1.7	18	1.6	9
17 CZH01024	107	10	6	5.3	6	9	2.1	23	3.1	6	1.7	16	2.2	10	2.5	3
2 CZH01031	111	10	6	4.9	12	12	3.3	4	2.8	13	1.6	20	2.3	6	1.8	8
1 CZH01029	110	10	6	4.7	14	16	2.7	15	2.8	12	1.6	21	2.0	12	1.1	20
3 CZH01030	105	11	7	5.0	10	21	3.3	3	2.1	19	1.7	17	1.4	24	0.9	22
8 CZH01021	101	11	6	5.5	4	8	2.1	22	3.1	7	2.0	8	2.5	4	1.6	12
16 CZH01022	103	11	6	4.9	11	12	2.0	21	2.4	16	2.2	6	1.9	15	1.6	10
18 CZH01032	104	11	6	5.2	8	8	3.7	2	2.6	14	2.2	5	2.2	9	2.4	4
6 CZH99051	99	13	6	5.2	9	13	3.2	6	2.9	11	1.9	12	1.8	16	1.6	11
5 CZH01027	97	13	6	4.8	13	15	3.1	7	3.0	9	1.8	15	1.6	19	1.2	17
9 CZH01023	98	13	5	4.0	21	16	3.2	5	3.0	8	1.6	19	1.7	17	1.2	18
13 CZH99061	93	14	6	4.5	17	20	2.8	12	2.4	17	1.7	18	1.6	22	0.8	24
12 CZH99055	88	17	5	4.6	15	15	2.8	11	3.5	3	1.9	13	1.6	21	0.8	23
15 OBATANPA-ZMSRc1F2	78	20	5	3.6	24	20	2.5	17	1.8	20	1.3	24	1.6	20	1.3	15
Maturity group average	102	12	6	5.1	11	13	2.8	12	2.8	11	1.8	14	1.9	14	1.6	13
Entries with anthesis date > 72 days																
21 CZH00026 (Normal Check1)	120	5	5	7.2	2	3	4.1	1	3.8	1	2.3	2	2.9	1	1.8	7
24 Local Check 2	108	11	8	3.7	23	9	2.8	13	2.2	18	2.2	3	2.1	11	2.5	2
23 Local Check 1	96	14	8	3.7	22	16	2.8	10	1.3	24	2.0	10	1.4	23	2.1	5
7 CZH99052	80	19	4	4.5	16	19	2.3	19	1.7	21	1.4	23	1.9	13	1.1	19
Maturity group average	101	12	6	4.8	16	11	3.0	11	2.2	16	2.0	10	2.1	12	1.9	8
Mean	100	12	6	5.0	15	12	2.8	12	2.6	11	1.9	11	2.0	11	1.6	11
LSD (0.05)				1.1	0.4		1.4		0.9		0.6		0.5		1.0	
F				***	ns		ns		***		*		***		*	
Min	78	5	4	3.6		3	1.9		1.3		1.3		1.4		0.8	
Max	120	20	8	7.5		21	4.1		3.8		2.9		2.9		2.9	
NumSignificantSites	40	40	40	1	3	0	0	1	1	1	1	1	1	1	1	1

QHYB03: Results of evaluation of Quality Protein Maize Hybrids from CIMMYT, Seed Co and an OPV from CIMMYT across 52 sites in eastern and southern Africa, 2002/03. Table 7J

Entry Name	Across		Low pH-Grain Yields		MSV - Grain Yields		N stress		Zone E				
	Rel GY	Rank	t/ha	Rank	t/ha	Rank	ASI	Ears/Plant	Low pH	ASI	Ears/Plant		
	%	Avg	Stdev	Rank	t/ha	Rank	t/ha	Rank	d	#	d	#	
Entries with anthesis date between 68 - 70 days													
4 CZH01025	104	12	6	5	1.6	5	9.5	7	2.5	0.74	10.3	4.3	0.86
11 CZH01034	92	16	5	8	1.3	8	7.5	12	2.7	0.64	2.1	4.7	0.98
14 CZH02016	86	17	7	20	0.9	20	6.8	14	2.6	0.84	4.2	4.4	0.89
10 CZH01033	81	19	4	16	1.0	16	6.6	17	3.0	0.64	3.8	5.2	0.80
Maturity group average	91	16	5	12	1.2	12	7.6	13	2.7	0.71	5.1	4.7	0.88
Entries with anthesis date between 70 - 72 days													
22 CZH01008 (Normal Check2)	119	6	5	2	2.2	2	10.1	4	3.3	0.79	7.6	5.0	0.70
20 02C3728	110	8	6	10	1.3	10	2.8	22	5.8	0.91	13.3	1.1	0.73
19 CZH01028	108	9	6	24	0.6	24	9.6	6	3.0	1.03	9.0	2.8	0.85
17 CZH01024	107	10	6	13	1.1	13	6.7	15	4.1	0.88	9.2	1.9	0.84
2 CZH01031	111	10	6	6	1.6	6	2.2	24	3.5	0.80	6.4	2.6	0.89
1 CZH01029	110	10	6	7	1.4	7	8.2	11	3.3	0.89	8.6	2.6	0.89
3 CZH01030	105	11	7	19	0.9	19	9.5	8	2.8	0.67	10.7	4.9	0.89
8 CZH01021	101	11	6	22	0.8	22	4.7	20	2.8	0.73	14.2	2.9	0.79
16 CZH01022	103	11	6	4	1.8	4	8.8	10	2.7	0.86	8.0	4.2	0.82
18 CZH01032	104	11	6	14	1.1	14	6.6	16	3.6	0.92	10.5	3.2	0.97
6 CZH99051	99	13	6	12	1.2	12	5.2	19	3.5	0.77	8.1	6.1	0.75
5 CZH01027	97	13	6	17	1.0	17	3.4	21	2.8	0.80	10.1	4.2	0.73
9 CZH01023	98	13	5	15	1.1	15	6.5	18	2.6	0.74	9.3	4.0	0.88
13 CZH99061	93	14	6	21	0.9	21	7.0	13	3.0	0.85	11.9	2.9	0.82
12 CZH99055	88	17	5	11	1.3	11	8.9	9	3.5	0.76	8.3	6.3	0.77
15 OBATANPA-ZMSRc1F2	78	20	5	23	0.7	23	9.9	5	4.3	0.77	9.5	7.9	0.75
Maturity group average	102	12	6	14	1.2	14	6.9	14	3.4	0.80	9.7	3.9	0.82
Entries with anthesis date > 72 days													
21 CZH00026 (Normal Check1)	120	5	5	9	1.3	9	13.0	1	3.7	0.71	11.7	5.3	0.72
24 Local Check 2	108	11	8	3	1.9	3	11.9	2	3.9	0.75	12.3	4.1	0.90
23 Local Check 1	96	14	8	1	2.5	1	10.5	3	3.1	0.71	8.4	5.4	0.59
7 CZH99052	80	19	4	18	1.0	18	2.6	23	3.8	0.66	11.5	4.5	0.67
Maturity group average	101	12	6	8	1.7	8	9.5	7	3.7	0.75	11.2	4.5	0.81
Mean	100	12	6	6	1.3	6	7.4	6	3.3	0.77	9.1	4.2	0.81
LSD (0.05)					0.8		2.5		1.4	0.17	4.7	2.1	0.13
P					*		***						
Min	78	5	4	4	0.6	4	2.2	4	2.5	0.60	2.1	1.1	0.59
Max	120	20	8	8	2.5	8	13.0	8	5.8	1.03	14.2	7.9	0.98
NumSignificantSites	40	40	40	40	1	1	1	1	3	2	1	1	4

