



- Still Earliest Maturity
- Still Highest Yielding
- Still the Best Standing

BALTIS *Grain Maize for drying and crimping + SILAGE*



Grain Yield at Harvest adjusted to 15%

	Grain Yield t/ha adjusted to 15% moisture	Yield t/ha Trials 2008 (Norfolk)	Yield t/ha Trials 2007 (Sussex and Devon)	Yield t/ha Trials 2006 (Sussex and Devon)	Yield t/ha Trials 2005 (Sussex, Dorset and Norfolk)	Yield t/ha Trials 2004 (Sussex and Cams)	Yield t/ha Trials 2003 (Sussex and Cams)
Es PALLAS	7.2	*	6.8	*	*	*	*
MT MIKE	6.7	*	6.3	*	*	*	*
LORADO	8.4	7.3	8.5	*	*	*	*
KONSORT	7.5	7.1	7.3	*	*	*	*
OHIO	7.5	6.6	7.0	7.1	8.8	7.5	7.2
BECKET	7.7	7.1	7.5	6.9	*	*	*
BALTIS	8.1	8.3	7.6	7.2	9.8	8.6	6.6
ALANIS	8.4	8.4	7.7	7.7	*	*	*
RH508	8.5	8.7	8.0	*	*	*	*
ARTDECO	9.2	10.3	8.2	*	*	*	*
HUSKI CS	8.3	8.0	8.0	*	*	*	*
ARABICA	8.5	8.3	8.4	7.3	*	*	*
NK FALCONE	9.0	8.8	9.1	7.8	*	*	*
RH514	7.8	8.9	6.9	*	*	*	*
FRENETIC	8.4	8.1	8.4	7.3	9.7	*	*
PR39K13	9.2	8.0	9.4	*	*	*	*

Grain Moisture at Harvest %

	Moisture Content of Grain at Harvest	Moisture Content Trials 2008 (Norfolk)	Moisture Content Trials 2007 (Sussex and Devon)	Moisture Content Trials 2006 (Sussex and Devon)	Moisture Content Trials 2005 (Sussex, Dorset and Norfolk)	Moisture Content Trials 2004 (Sussex and Cams)	Moisture Content Trials 2003 (Sussex and Cams)	Harvestability Score (0= all harvestable 10= flat)
Es PALLAS	29.0	*	29.9	*	*	*	*	0.0
MT MIKE	31.0	*	31.9	*	*	*	*	0.0
LORADO	31.1	32.9	31.7	*	*	*	*	0.2
KONSORT	32.0	32.4	33.3	*	*	*	*	0.0
OHIO	33.1	30.9	33.4	33.6	33.3	36.2	29.9	0.1
BECKET	33.4	33.1	34.9	34.4	*	*	*	0.0
BALTIS	33.9	36.6	34.3	35.5	33.1	35.0	30.6	0.0
ALANIS	34.5	36.5	34.3	36.1	*	*	*	0.0
RH508	34.6	37.3	34.8	*	*	*	*	1.7
ARTDECO	35.5	38.6	35.4	*	*	*	*	0.0
HUSKI CS	35.6	36.7	36.5	*	*	*	*	0.6
ARABICA	35.7	37.2	36.7	36.1	*	*	*	0.0
NK FALCONE	35.8	38.6	37.8	34.7	*	*	*	0.0
RH514	36.6	37.5	37.6	*	*	*	*	0.1
FRENETIC	38.0	39.6	39.2	39.9	35.0	*	*	0.9
PR39K13	39.4	38.8	41.1	*	*	*	*	0.0

NIAB / MGA Grain Maize Trial results 2003 - 2008

Baltis - stable & proven

Combining is typically in November when the grain moisture content reaches 30% so the ability of a variety to remain standing is **absolutely critical**.

Dried grain maize is worth a premium over wheat, crimped maize is worth even more when fed through a ruminant.

Baltis has early grain dry down and lower grain moisture at harvest, allowing earlier threshing of grain off the spindle.

Good yields of grain can be maximised with use of irrigation at flowering on light soils.

NIAB Grain Maize varieties completing 2 years of trials - ranked in order of grain maturity.



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BALTIS



Grain maize	Grain maize requires more heat units to reach maturity compared to silage maize. Maize has been successfully grown for grain all along the south coast into Devon, along the Bristol Channel into Shropshire and throughout East Anglia.
Soil type	Sandy soils allow crops to become established quicker and grain maize will normally out yield cereal crops on these thin soils. Irrigation will enhance yields during very dry summers, especially if water is applied at flowering to maximise grain set.
Seed rate	Seed is sown at a lower rate than silage maize to increase grain yields at harvest. 42,000 seeds/acre are normally drilled to establish 40,000 plants /acre (98,000/ha).
Harvesting	Combine when grain moisture gets down to 30% for efficient threshing, normally November. Combine fitted with cob-picker header so only cobs processed in drum. Headers often have flail under bed to destroy remaining plant.
Grain storage	Dry harvested grain within 72 hours of combining through a continuous flow drier to prevent mycotoxin build up. Pass grain through a drier twice to remove the 15% moisture required for sable storage. Ensure grain is ventilated after drying to prevent moulds. Analyse dried sample for mycotoxins before marketing.
Crimped maize	Save on drying costs by crimping off the combine, applying an additive and ensiling. Crimped maize can be fed at up to 4kg/day in the winter ration off setting bought in energy feeds. Crimped maize contains up to 70% starch and 14.5 ME.
Plant growth	Medium height plant with very erect ultra wide leaves, strong stay green variety allowing the full growing season to be utilised. The plants at harvest will be dried out by autumn winds and early frosts so that the plant looks dead.
Cob Characteristics	Large indeterminate cobs are held low on the plant. The cob has a large number of grain sites which rapidly mature in the run up to harvest to ensure that crops can be combined as soon as possible. At harvest the base of the grain is sealed from the plant (black dot) and the grains rattle on the spindle when cob is twisted in the hand.



Baltis - Crimped maize can be utilised by animals more efficiently.

