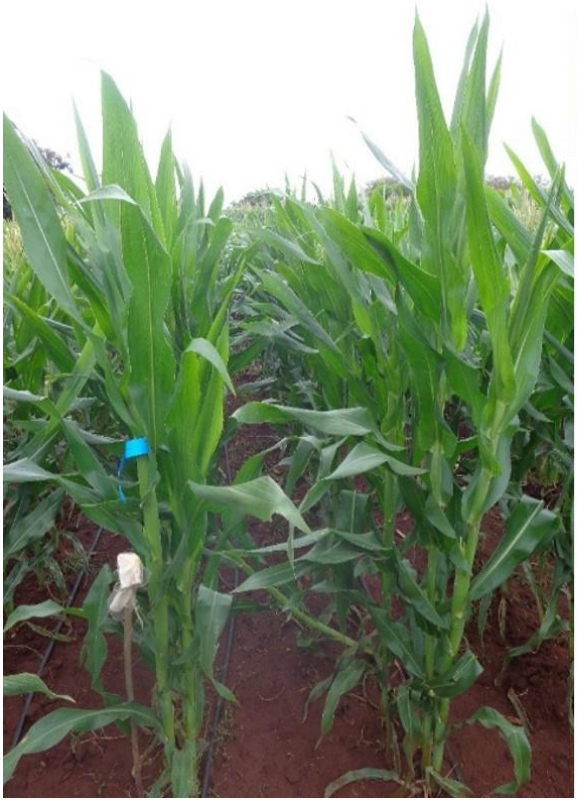
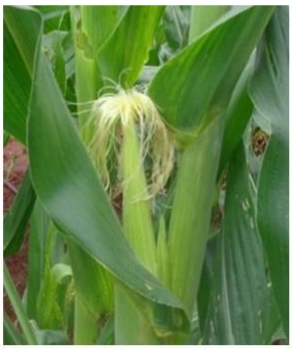
CML604A





CML	CIMMYT Code	Kernel color	Maturity	Adaptation	Heterotic Group	Hybrid Strengths	Combines well with
CML604A	CKDHL0186	White	Intermediate (FAO 500 series)	Eastern and Southern Africa tropical mid-altitude	A	Performs well under optimum, drought and low N conditions	CML566, CML569

Description:

CML604A has flint white kernels, and is a good replacement for CML488. It has excellent *per se* performance and is a very good combiner under optimal conditions. The line can be used as a male or female parent in hybrid combinations.

CML605B




CML	CIMMYT Code	Kernel color	Maturity	Adaptation	Heterotic Group	Hybrid Strengths	Combines well with
CML605B	CKDHL0590	White	Intermediate (FAO 500 series)	Eastern and Southern Africa tropical mid-altitude	B	Performs well under optimum and drought conditions.	CML540, CML567, CML568

Description:

CML605B is derived from CML395, and has good yield *per se* with good standability and husk cover. It matures earlier than CML395, and is a good combiner under optimal conditions. The line can be used as a male or female parent in hybrid combinations.

CML606A




CML	CIMMYT Code	Kernel color	Maturity	Adaptation	Heterotic Group	Hybrid Strengths	Combines well with
CML606A	CKLMARSI0677	White	Intermediate (FAO 500 series)	Eastern and Southern Africa tropical mid-altitude	A	Good performance under stress and non-stress conditions	CML543, CML546, CML569

Description:

CML606A has very good grain yield *per se*, low ear placement and resistance to ear rot. The line is an excellent combiner under optimal and managed drought stress conditions, and can be used as a female parent in single-cross hybrid production.

CML607B

CML	CIMMYT Code	Kernel color	Maturity	Adaptation	Heterotic Group	Hybrid Strengths	Combines well with
CML607B	CKDHL0323	White	Intermediate to late (FAO 500-600 series)	Eastern and Southern Africa tropical mid-altitude	B	Tolerant to drought, and foliar diseases (GLS and TLB)	CML566, CML547

Description:

CML607B is derived from CML395 and has good per se performance, and foliar disease resistance. It can be used as a male or female in hybrid combinations, and as parent to make new crosses targeting high yield potential. In combination with CML566, it can potentially replace the widely used single-cross tester CML395/CML444.

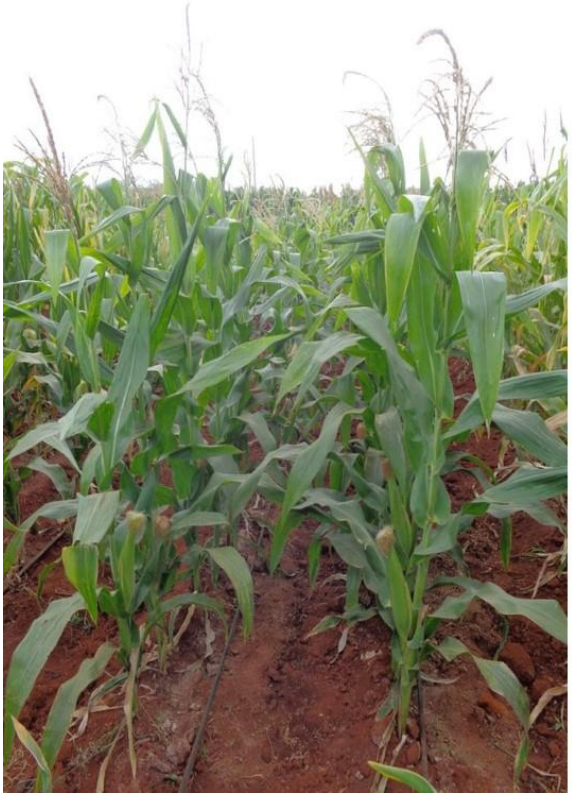
CML608B

CML	CIMMYT Code	Kernel color	Maturity	Adaptation	Heterotic Group	Hybrid Strengths	Combines with
CML608B	CKLMARS10022	White	Intermediate to late (FAO 500 –600 series)	Eastern and Southern Africa tropical mid-altitude	B	Tolerant to drought, MLN and foliar diseases (GLS and TLB)	CML550, CML569, CML566

Description:

CML608B is one of the white-kernel MLN-tolerant lines, with good per se performance, stay green trait, double-cob and tolerance to GLS and TLB. The line has good combining ability under optimum and drought stress conditions.

CML609A

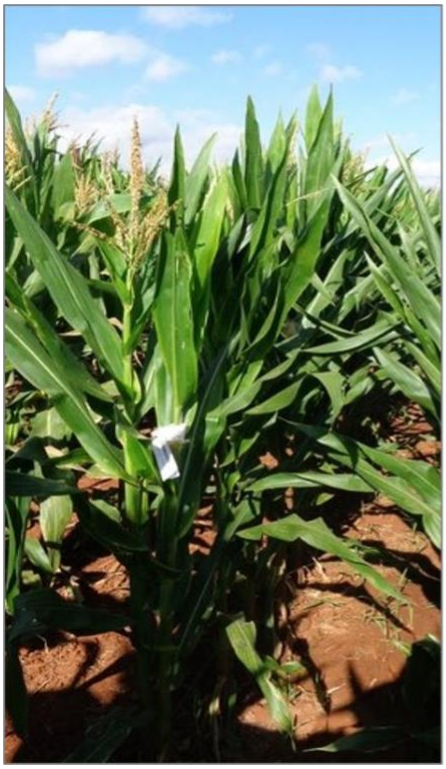



CML	CIMMYT Code	Kernel color	Maturity	Adaptation	Heterotic Group	Hybrid Strengths	Combines well with
CML609A	CKLTI0200	White	Intermediate to late (FAO 500-600 series)	Eastern and Southern Africa tropical/subtropical mid-altitude	B	Tolerant to drought, and resistant to TLB	CML568

Description:

CML609A is derived from temperate (ex-PVP)-tropical introgression and is useful to diversify the genetic pool of Africa-adapted improved maize germplasm. The line recorded 1 t/ha yield advantage over the biological check (CML495) when tested using 8 testers across 7 optimum locations, and had 0.23 t/ha better grain yield than CML495 under managed drought stress. It has low ear position, and is best used as a male parent in hybrid combinations.

CML610A



CML	CIMMYT Code	Kernel color	Maturity	Adaptation	Heterotic Group	Hybrid Strengths	Combines with
CML610A	CKL14549	White	Intermediate-Late (FAO 500-600 series)	Eastern and Southern Africa tropical mid-altitude	A	High yield potential under stress and optimum conditions; resistant to GLS, TLB, and MSV	CML444 CML536 CML543 CML547

Description:

CML610A is a very good combiner under both stress and non-stress environments. It has the potential to be used as a female parent in single-cross hybrids due to its high seed yield. It has low ear placement, good stalk strength, very good husk cover, and resistance to the major diseases (GLS, TLB, and MSV) in the mid-altitudes of Eastern and Southern Africa. It is best used as a female parent in three-way cross hybrids.

CML611B

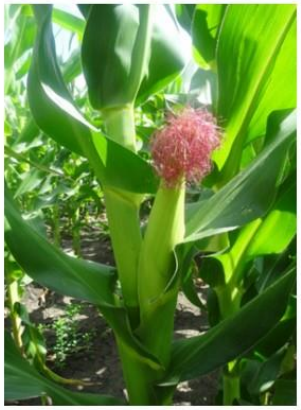
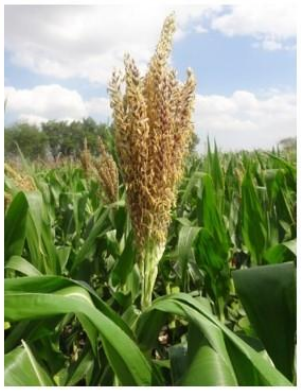



CML	CIMMYT Code	Kernel color	Maturity	Adaptation	Heterotic Group	Hybrid Strengths	Combines well with
CML611B	CEL08011	White	Intermediate (FAO 500 series)	Eastern African highlands	B	Resistant to major diseases (TLB, GLS, Common rust and Ear rot)	CML583, CEL08001, CEL08003

Description:

CML611B is an excellent combiner under optimal and low nitrogen (N) conditions. Due to high seed yield, the line can be considered as a female parent in single-cross hybrid combinations, especially for eastern African highlands.

CML612B

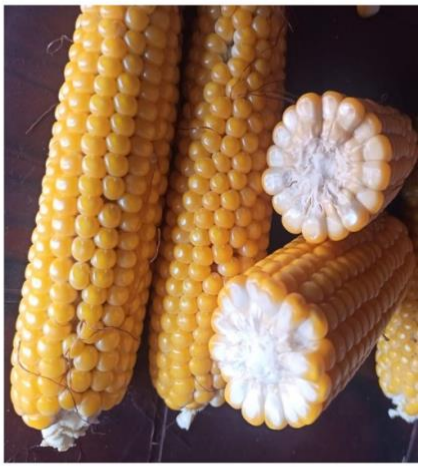

CML	CIMMYT Code	Kernel color	Maturity	Adaptation	Heterotic Group	Hybrid Strengths	Combines well with
CML612B	CAL1534	Orange	Intermediate -Late (FAO 500-600 series)	Asian tropical lowlands	B	Tolerant to drought stress	CML582, CML615A

Description:

CML612B is an excellent combiner under both optimal and drought stress conditions. It has attractive kernel color, good plant and ear aspects, and is a good pollen producer.

CML613A



CML	CIMMYT Code	Kernel color	Maturity	Adaptation	Heterotic Group	Hybrid Strengths	Combines well with
CML613A	CAL182	Yellow	Intermediate -Late (FAO 500-600 series)	Asian tropical lowlands	A	Tolerant to drought and heat stress	CML581, CML582, CML614B

Description:

CML613A combines well to produce hybrids tolerant to both drought and heat stresses in the Asian tropical lowlands, and can perform well under rainfed conditions. The line has uniform ears with thin shank, has good shelling recovery, and is suitable as female parent in hybrid seed production.

CML614B




CML	CIMMYT Code	Kernel color	Maturity	Adaptation	Heterotic Group	Hybrid Strengths	Combines with
CML614B	ZL132070	White	Intermediate (FAO 500-600 series)	Asian tropical lowlands	B	Hybrids tolerant to heat stress (across VPD regimes); resistant to TLB and Fusarium Stalk Rot (FSR)	CML562, CML449

Description:

CML614B is a white kernel line with good combining ability and does well under combined heat and drought stress (across VPD regimes) in the Asian tropical lowlands. The line is resistant to TLB and Fusarium Stalk Rot (FSR), two major diseases of maize in South Asia.

CML615A




CML	CIMMYT Code	Kernel color	Maturity	Adaptation	Heterotic Group	Hybrid Strengths	Combines well with
CML615A	ZL1611	Yellow	Intermediate (FAO 500-600 series)	Asian tropical lowlands	A	Hybrids tolerant to drought, waterlogging, TLB and FSR	CML451, CML564

Description:

CML615A combines well to produce stress-resilient yellow maize hybrids for drought/waterlogging-prone target environments in the Asian lowland tropics. The line is resistant to TLB and FSR in South Asia. The line has low ear placement and is a copious pollen producer. It can be potentially used as a female or male parent in hybrid combinations.