CML616A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML616A	CKLMARS1C3S50080	A	EA-PP1	White	0.65 (Optimum); 0.15 (Drought)	CML540	Female

Description:

CML616A is an intermediate-maturing (FAO500 series) white maize line, derived through marker-assisted recurrent selection. The line can adapt in dry areas where the growing season is short. It is a double cobber, and has good tassel exertion, good GCA under both optimum and drought environments. The line is resistant to Grey Leaf Spot (GLS) and Turcicum Leaf Blight (TLB).

CML617A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML617A	**CKDHL164166**	A	EA-PP1-Early	White	1.07 (Optimum); 0.36 (Drought)	CML584	Can be used either as a Male or Female

Description:

CML617A is an early-maturing line (FAO400 series), with resistance to Maize Lethal Necrosis (MLN). It exhibits good GCA under both optimum and drought environments. It is a vigorous, uniform, and productive line with good husk cover, and resistance to TLB, GLS, Common rust, and ear rots.

CML618B




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML618B	**CKSBL10008**	B	EA-PP1-Intermediate	White	0.65 (Optimum); 0.47 (Drought); 1.97 (FAW Artificial Infestation)	CML71	Can be used either as a Male or Female

Description:

CML618B is one of the best FAW tolerant lines. It a is flint type line with intermediate maturity (FAO500 series), good tassel exertion and is a good pollinator. It is a double cobber and is resistant to TLB, GLS, Common rust, and Ear rot.

CML619A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as a Male / Female Parent?
CML619A	**CKDHL140911**	A	EA-PP1-Intermediate/Late	White	2.30 (Optimum); 0.14 (Drought)	CML536	Can be used either as a Male or Female

Description:

CML619A is an intermediate maturing line (FAO500 series), with good GCA for grain yield under both optimum and drought environments. The line has good husk cover and is resistant to GLS, TLB, Common rust, and Ear rot. It forms good hybrids that perform under optimum, low N, and Striga.

CML620B

CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML620B	**CKDHL1574**	B	EA-PP2	White	1.01 (Overall)); 1.00 (Optimum); 0.33 (Drought)	CML543; CML395; CML444; CML547	Female

Description:

CML620B is an intermediate-late-maturing line (FAO500-600 series) with good GCA for grain yield under optimal and drought stress environments. It is drought tolerant and resistant to TLB, GLS, Common rust, and Ear rot.

CML621B




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML621B	**CKL12128**	B	EA-PP2 & EA-PP1	White	0.51 (Overall); 0.79 (Optimum); 0.28 (Drought)	CML444; CML445	Male

Description:

CML 621B is an intermediate maturing line (FAO500 series) with good GCA for grain yield under both optimal and drought stress environments. It has good standability, and is resistant to major foliar diseases, especially GLS, TLB, Common rust, and MSV. The line has good husk cover, and is tolerant to ear rots.

CML 622B




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML622B	**CEL08034**	B	EA-PP3-Highland	White	0.82 (Optimum)	CML561	Can be used either as a Male or Female

Description:

CML622B is a highland maize line with late maturity (FAO700 series), good GCA, good pollen exertion, resistance to foliar diseases, good standability, good husk cover, and is resistant to ear rot. The line has good plant and ear aspects.

CML623A



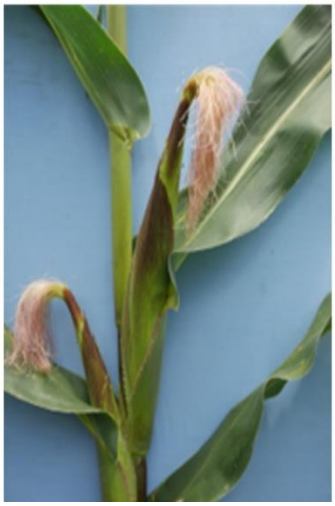

CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML623A	**CZL15225**	A	SA-PP1-Intermediate / Late	White	1.02 (Overall); 0.62 (Optimum); 1.74 (Low N); 0.72 (Drought)	CML538; CML590	Can be used either as a Male or Female.

Description:

CML623A has good tolerance to drought, low N, and foliar diseases (MSV, GLS, TLB and Common rust). It can be used as female or male parent in hybrid formation.

CML624B






CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML624B	**CZL15085**	B	SA-PP1-Late	White	0.64 (Overall); 0.61 (Optimum); 0.66 (Low N); 0.44 (Drought)	CML547	Can be used either as a Male or Female.

Description:

CML624B has good GCA effects under optimal management, low N, and drought stress. The line has resistance to major foliar diseases (MSV, GLS, TLB, Common rust).

CML625A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML625A	**CZL15003**	A	SA-PP1	White	0.78 (Overall); 1.25 (Optimum); 0.31 (Drought)	CML537; CML538	Male

Description:

CML625A is an early- to intermediate-maturity (FAO400-500 series) white maize line, with high GCA for grain yield, drought tolerance, good pollen shedding capacity, and resistance to major foliar diseases (GLS, TLB, Common rust, and MSV).

CML626A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML626A	**CZL15206**	A	SA-PP1 & SA-PP2	White	0.48 (Overall); 0.82 (Optimum); 0.60 (Low N)); 0.01 (Drought)	CML537; CML312	Male

Description:

CML626A is an early- to intermediate-maturity (FAO400-500 series) white maize line, with high GCA for grain yield under optimal management and under low N stress. The line has tolerance to drought and foliar diseases (MSV, GLS, TLB, and Common rust).

CML627A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML627A	**CZL1360**	A	SA-PP1	White	0.41 (Overall) 0.44 (Optimum); 0.64 (Low N); 0.15 (Drought)	CML312; CML537	Can be used either as male or female.

Description:

CML627A is an intermediate- to late-maturity (FAO500-600 series) white maize line, with high yield potential, tolerance to drought and low N, and resistance to major foliar diseases (MSV, GLS, and Common rust).

CML628B




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML628B	**CLHP0306**	B	NuMPVA	Orange	0.24 (Overall); 0.21 (Optimum); 0.03 (Drought)	CML297	Can be used either as male or female.

Description:

CML628B is a late-maturing (FAO600 series) orange maize line with high provitamin A content, good standability, good husk cover, and tolerance to major foliar diseases (MSV, GLS, TLB, and Common rust).

CML629B




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML629B	**CLHP0286**	B	NuMPVA	Orange	0.32 (Overall); 0.22 (Optimum); 0.10 (Drought)	CML488	Can be used either as male or female.

Description:

CML629B is an intermediate- to late-maturing (FAO500-600 series) orange maize line with high provitamin A content, and good GCA for grain yield under optimal and drought stress. It has good standability, good husk cover, and tolerance to major foliar diseases.

CML630B

CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML630B	**CLHP0478**	B	NuMPVA	Orange	0.28 (Overall); 0.22 (Optimum); 0.06 (Drought)	CML297	Can be used either as male or female.

Description:

CML630B is a late-maturing (FAO600 series) orange maize line with high provitamin A content, good GCA for grain yield, standability, husk cover, and resistance to major foliar diseases (GLS, TLB, and Common rust).

CML631A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML631A	**CSL1653**	A	LatAmMT	White	0.44 (Overall); 0.20 (Drought)	CML311; CML373	Can be used as a Male or Female.

Description**:**

CML631A is an intermediate-maturing (FAO500 series), subtropical, white maize line with resistance to GLS, TLB and ear rots, and tolerance to drought stress, and root and stalk lodging.

CML632A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML632A	**CSYL1938**	A	LatAmMT	Yellow	1.11 (Overall); 0.21 (Drought)	CML373	Female

Description:

CML632A is an intermediate-maturing (FAO500 series) subtropical yellow maize line, with excellent overall combining ability, especially with CML451-types. It yields close to 5 t/ha under optimum conditions, which makes it a potentially good female parent. The line has resistance to TLB, stalk rots and ear rots, and has moderate resistance to GLS and Common rust.

CML633A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML633A	**CSL1627**	A	LatAmMT	White	0.36 (Overall); 0.15 (Drought)	CML498; CML549	Male

Description:

CML633A is an intermediate-maturing (FAO500 series) subtropical white maize line, with excellent overall combining ability. The line does well under optimal (irrigated) as well as under mild drought stress under rainfed conditions. It has good disease resistance, including for TLB, Common rust, GLS, and stalk rots.

CML634B




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML634B	**CSL1683**	B	LatAmMT	Yellow	1.07 (Overall); 0.31 (Drought)	CML451	Female

Description:

CML634B is an intermediate-maturing (FAO500 series) subtropical yellow maize line. It is a highly productive line, with a semi-dent grain type. The line is tolerant to major foliar diseases, including TLB, GLS, and Common rust, and has resistance to stalk rots. It combines well with yellow derivatives of CML311 and CML312, and with derivatives of Stiff Stalk germplasm. It does well under both optimal (irrigated) and mild drought stress under rainfed conditions.

CML635A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML635A	**CSYL18203**	A	LatAmMT	Yellow	1.20 (Overall); 0.58 (Drought)	CML498; CML549	Male

Description:

CML635A is an intermediate-maturing (FAO500 series) subtropical yellow maize line, with excellent plant architecture. The line is tolerant to both stalk and ear rots, and is resistant to major foliar diseases, especially TLB and GLS. The yield potential of this line is relatively low at about 3.5 t/ha, which makes it primarily a male. The line does well under both optimal (irrigated) and drought-stressed conditions.

CML636B




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML636B	**CLWN236**	B	LatAmTL	White	0.35 (Overall); 0.48 (Low N)	CML498; CML549	Female

Description:

CML636B is an early- to intermediate-maturing (FAO400-500 series) tropical white maize line. It has good combining ability under optimal and low N conditions, good yield per se, erect leaves, excellent ear aspects, and resistance to TLB, Maydis leaf blight (MLB), GLS, Tar Spot Complex (TSC) and ear rots.

CML637B




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML637B	**CLYN540**	B	LatAmTL	Yellow	0.29 (Overall); 0.25 (Low N); 0.07 (Drought); 0.34 (Heat)	CML451	Female

Description:

CML637B is an intermediate-maturing (FAO500 series) tropical yellow maize line. It is a good combiner under optimal conditions, and has long ears, erect leaves, and good ear position. The line has heat stress tolerance, and is resistant to TSC and ear rots.

CML638A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML638A	**CLRCW100**	A	LatAmTL	White	0.37 (Overall)	CML596	Can be used as a Female or Male.

Description:

CML638A is an intermediate-maturing (FAO500 series) tropical white maize line with good per se performance, yield potential, good plant architecture, pollen production as well as seed yield. The line is resistant to TLB, MLB, TSC, and ear rots.

CML639B




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML639B	**CLWQHZN46**	B	NuMZn	White	0.04 (Overall); 0.27 (Drought); 0.30 (Low N); 0.27 (Heat)	CML555	Male

Description:

CML639B is a late-maturing (FAO600 series) tropical white flint, QPM line, and can be used as a high kernel Zinc (Zn) donor. It has tolerance to drought, heat, and low N, and is resistant to TSC. Zn content in grinded maize of this line is about 33.5 mg/kg.

CML640B

CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML640B	**CLWQHZN49**	B	NuMZn	White	0.24 (Overall); 0.43 (Low N)	CML556	Male

Description:

CML640B is a late-maturing (FAO600 series) tropical white flint, QPM line. The line is an excellent high kernel Zn donor, with great agronomic traits, stress tolerance, and combining ability under both optimal and low N conditions. It is an improvement of CML556 with better yield, disease resistance and agronomics.

CML641A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML641A	**KL153092**	A	SADT	Orange	0.26 (Overall); 0.28 (Optimum); 0.32 (Drought)	CL02450	Male

Description:

CML641A is an intermediate-maturing (FAO500 series) line with orange kernel color and a sturdy plant type with less foliage. It has tolerance to drought, waterlogging, BLSB, TLB and *Fusarium* Stalk Rot (FSR).

CML642A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML642A	**KL155973**	A	SADT	Yellow	0.22 (Overall); 0.20 (Optimum); 0.28 (Drought)	CL02450	Can be used either as a Male or Female.

Description:

CML642A is an intermediate-maturing (FAO500 series) line with yellow kernel color. It is a good combiner, with tolerance to drought stress, and resistance to TLB and FSR.

CML643A

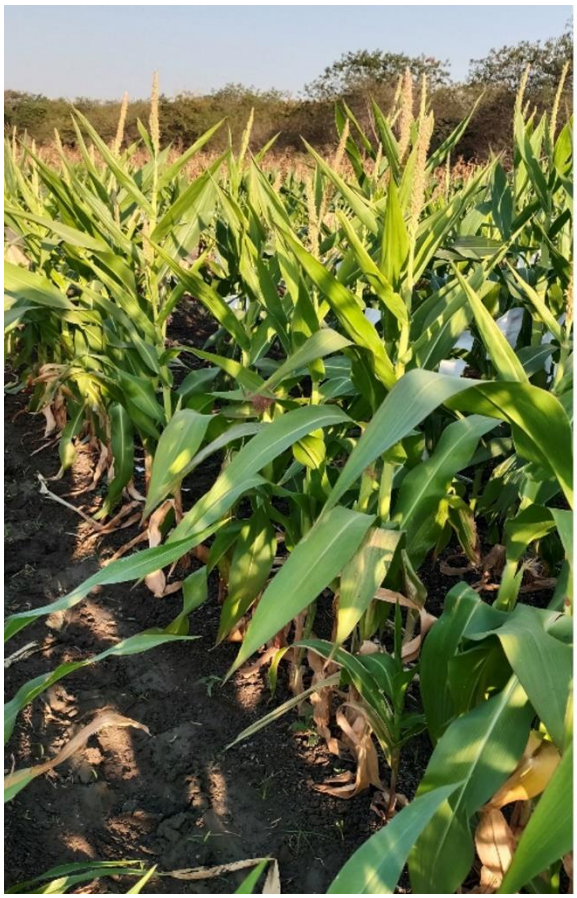



CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML643A	**VL108727**	A	SADT	Orange	0.18 (Overall); 0.23 (Optimum); 0.14 (Drought)	CL02450	Male

Description:

CML643A is an intermediate-maturing (FAO500 series) line with orange kernel color. It has high GCA under drought stress, and resistance to TLB and FSR.

CML644A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML644A	**VL109250**	A	SAHDT	Orange	0.13 (Overall); 0.11 (Optimum); 0.14 (Drought)	CL02450; CML613A	Male

Description:

CML644A is an intermediate-maturing (FAO500 series) line with bright orange kernel color. It is a good combiner under various stresses (especially drought and heat stress), and has good per se performance, plant and ear aspect with erect leaves, and good tassel exertion. The line is resistant to TLB and FSR.

CML645B




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML645B	**CAL14135**	B	SAHDT	Orange	0.11 (Overall); 0.54 (Optimum); 0.28 (Heat)	CML564; CML451	Female

Description:

CML645B is an intermediate-maturing (FAO500 series) tropical flint line with orange kernel color. The line has tolerance to heat and drought stresses, and is resistant to major diseases (TLB, FSR, and Ear rots).

CML646A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML646A	**ZL169**	A	SAHDT	Orange	0.15 (Overall); 0.44 (Optimum); 0.26 (Heat)	CML474; CML564; CML565; CL02450	Can be used either as a Male or Female.

Description:

CML646A is an intermediate-maturing (FAO500 series) tropical flint line with orange kernel color. The line has tolerance to heat stress, and is resistant to major diseases (TLB, FSR, and Ear rots).

CML647A




CML	CIMMYT Inbred / DH Line Code	Heterotic Group	Breeding Pipeline	Kernel Color	GCA (t/ha)	Key Line(s) for Comparison	Recommended as Male / Female Parent?
CML647A	**ZL155542**	A	SAHDT	Orange	0.26 (Overall); 0.11 (Optimum); 0.27 (Heat)	CML564; CML578; CL02450	Female

Description:

CML647A is an intermediate-maturing (FAO500 series) tropical flint line with orange kernel color. The line has tolerance to heat and drought stresses, and is resistant to major diseases (TLB, FSR, *Macrophomina* stalk rot, and Ear rots).