

Table 1. Characteristics of six lowland tropical late/intermediate maturity maize lines (CML 498 - CML 503)

White grained

CML No.	CIMMYT Line Code	Source Germ-plasm	Pedigree	Yield t/ha	Days to flowering			Tassel			Plant vigor (1-5)	Stand-ability (1-5)	Ear asp. (1-5)	Ear rot (1-5)	Grain text. (1-5)	Rust (1-5)	B.m. (1-5)	GCA Yield	Try % -- in whole grain --	Lys %	Quality Index	CIMMYT Heterotic Pattern	Specific heterotic partners
					male	female	GDD (fem)	size (1-5)	Plant (cm)	Ear (cm)													
498	CL-RCW44	RCW	(CML265*CL-00303)-S7*CML264)-B-8-1-3-B*4	4.82	78	78	992	2.0	161	78	2.0	1.0	2.2	2.0	F	2.5	2.2	Good				A	CML449,CML494
499	CL-RCW39	RCW	(CL-04345*CML274)B-15-1-2-B*4	4.45	81	80	959	2.0	183	90	2.0	3.0	2.4	1.8	SD	2.8	2.3	Good				B	CML495
500	CL-RCW42	RCW	(CML273*CML401)-B-16-1-1-B*5	3.61	82	82	1044	2.0	186	98	2.0	3.0	2.5	2.7	SD	2.0	3.1	Good				AB	CML-449,CML494, CML448

Yellow grained

501	CL-RCY005	RCY	(CL-02709xV)-BBB-1-1-B*9	2.97	87	87	1030	2.0	141	78	2.5	2.5	2.8	2.0	SF	2.6	3.0	Good				B	CL-02450, CL-SCBY03, CL-RCY007
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White grained QPM lines

502	CLQ-RCWQ50	RCWQ	(CML-176*CML-264)-16-2-3-2-B*4	3.73	80	79	1044	2.5	168	81	2.0	1.8	3.1	2.6	D	2.5	2.2	Excellent	0.11	0.51	0.88	AB	CML491, CML144, CML492
503	CML264Q	POP21	(CML176*CML264)-BxCML264)-7-1xCML264]xCML264-F2(65)-B*4	2.69	80	80	1044	1.0	134	59	1.5	1.0	3.5	2.7	F	2.5	3.0	Good	0.11	0.50	0.82	B	CML491, CML150,CML159

Abbreviations

CML No., CIMMYT Maize Line Number; RCW, recycled white; RCY, recycled yellow; Ear Asp., Ear Aspect; Yield, per se grain yield; GDD, growing degree days = $[(T_{max} - T_{min})/2] - 10$; Grain text., Grain texture (D = dent, SD = semident, SF = semiflint, F = flint); Rust, Puccinia sorghi; B.m., *Bipolaris maydis* leaf blight; GCA, General Combining Ability; Try = Tryptophan; Lys = Lysine; Quality Index = $[(\% \text{ tryptophan} \times 100) / \% \text{ protein}]$, whole-grain values > 0.8 are considered QPM

Heterotic Group A is most similar to Tuxpeño or Stiff Stalk or N3 or Kitale; Heterotic Group B is most similar to ETO or Lancaster or SC or Ecuador

Scales for scores:

Yield, Vigor, Ear Asp. and Standability, 1= good, 5= poor; Tassel size, 1= large, 5= small; Disease (ear rot, rust, and *B. maydis*), 1= no or very mild symptoms, 5= very severe symptoms