



Supplementary Data

Research Article

Assessment of genetic diversity in Myanmar maize inbred lines using SSR markers

Nay Aung¹ , Myint Aye² , Kyi Moe³ , Thida⁴, Soe Win¹ and Nyo Mar Htwe^{2*} 

1. Department of Plant Breeding, Physiology and Ecology, Yezin Agricultural University, Myanmar
2. Advanced Centre for Agricultural Research and Education, Yezin Agricultural University, Myanmar
3. Department of Agronomy, Yezin Agricultural University, Myanmar
4. Biotechnology Research Section, Department of Agricultural Research, Myanmar

Corresponding Author

Prof. Dr. Nyo Mar Htwe E-mail: dr.nyomarhtwe@yau.edu.mm, Tel: +95 9420700364

Table S1. List of inbred lines and their source

No.	Inbred Code	Source	No.	Inbred Code	Source	No.	Inbred Code	Source
1	TK.19.04	Thailand	41	YZCI.18.051	Thailand	81	YZSI.20.023	CIMMYT
2	TK.19.06	Thailand	42	YZCI.18.063	Thailand	82	YZSI.20.024	CIMMYT
3	TK.19.07	Thailand	43	YZCI.19.019	Thailand	83	YZSI.20.025	CIMMYT
4	TK.19.08	Thailand	44	YZCI.19.020	Thailand	84	YZSI.20.026	CIMMYT
5	TK.19.09	Thailand	45	YZCI.19.021	Thailand	85	YZSI.20.027	Thailand
6	TK.19.10	Thailand	46	YZCI.19.024	Thailand	86	YZSI.20.028	CIMMYT
7	TK.19.12	Thailand	47	YZCI.19.031	Thailand	87	YZSI.20.029	CIMMYT
8	TK.19.15	Thailand	48	YZCI.19.033	Thailand	88	YZSI.20.030	CIMMYT
9	TK.19.17	Thailand	49	YZCI.19.034	Thailand	89	YZSI.20.031	CIMMYT
10	TK.19.19	Thailand	50	YZSI.18.009	China	90	YZSI.20.032	CIMMYT
11	TK.19.20	Thailand	51	YZSI.18.017	China	91	YZSI.20.033	CIMMYT
12	TK.19.21	Thailand	52	YZSI.18.018	China	92	YZSI.20.034	CIMMYT
13	TK.19.27	Thailand	53	YZSI.18.022	China	93	YZSI.20.035	CIMMYT
14	TK.19.28	Thailand	54	YZSI.19.006	Thailand	94	YZSI.20.036	CIMMYT
15	TK.19.31	Thailand	55	YZSI.19.008	Thailand	95	YZSI.20.037	CIMMYT
16	TK.19.33	CIMMYT	56	YZSI.19.009	Thailand	96	YZSI.20.038	CIMMYT
17	TK.19.35	CIMMYT	57	YZSI.19.013	Thailand	97	YZSI.20.039	CIMMYT
18	TK.19.36	CIMMYT	58	YZSI.19.015	Thailand	98	YZSI.20.040	CIMMYT
19	TK.19.38	CIMMYT	59	YZSI.20.001	Thailand	99	YZSI.20.041	CIMMYT
20	TK.19.41	CIMMYT	60	YZSI.20.002	Thailand	100	YZSI.20.042	CIMMYT
21	TK.19.42	CIMMYT	61	YZSI.20.003	Thailand	101	YZSI.20.043	CIMMYT
22	TK.19.43	CIMMYT	62	YZSI.20.004	Thailand	102	YZSI.20.044	CIMMYT
23	TK.19.44	CIMMYT	63	YZSI.20.005	Thailand	103	YZSI.20.045	CIMMYT

Table S1. (Continued)

No.	Inbred Code	Source	No.	Inbred Code	Source	No.	Inbred Code	Source
24	TK.19.49	CIMMYT	64	YZSI.20.006	Thailand	104	YZSI.20.046	CIMMYT
25	TK.19.50	CIMMYT	65	YZSI.20.007	Thailand	105	YZSI.20.047	CIMMYT
26	TK.19.55	CIMMYT	66	YZSI.20.008	Thailand	106	YZSI.20.048	CIMMYT
27	TK.19.56	CIMMYT	67	YZSI.20.009	Thailand	107	YZSI.20.049	CIMMYT
28	TK.19.58	CIMMYT	68	YZSI.20.010	Thailand	108	YZSI.20.050	CIMMYT
29	TK.19.59	CIMMYT	69	YZSI.20.011	Thailand	109	YZSI.20.051	CIMMYT
30	TK.19.60	CIMMYT	70	YZSI.20.012	Thailand	110	YZSI.20.052	CIMMYT
31	TK.19.65	CIMMYT	71	YZSI.20.013	Thailand	111	YZSI.20.053	CIMMYT
32	TK.19.66	CIMMYT	72	YZSI.20.014	Thailand	112	YZSI.20.054	CIMMYT
33	TK.19.68	CIMMYT	73	YZSI.20.015	Thailand	113	YZSI.20.055	CIMMYT
34	TK.19.70	CIMMYT	74	YZSI.20.016	Thailand	114	YZSI.20.056	CIMMYT
35	TK.19.72	CIMMYT	75	YZSI.20.017	Thailand	115	YZSI.20.057	CIMMYT
36	YI.19	ICF, Korea	76	YZSI.20.018	Thailand	116	YZSI.20.058	CIMMYT
37	YZCI.18.031	CIMMYT	77	YZSI.20.019	Thailand	117	YZSI.20.059	CIMMYT
38	YZCI.18.035	CIMMYT	78	YZSI.20.020	Thailand	118	YZSI.20.060	CIMMYT
39	YZCI.18.041	CIMMYT	79	YZSI.20.021	Thailand	119	C7	Monsanto, USA
40	YZCI.18.048	Thailand	80	YZSI.20.022	Thailand	120	B73	CIMMYT

Table S2. Classification of 120 genotypes based on inferred ancestry fraction value of <70%

No.	Genotype	Sub-population	No.	Genotype	Sub-population	No.	Genotype	Sub-population
1	TK.19.70	I	29	YZSI.20.057	I	57	YZSI.20.016	III
2	YZCI.18.041	I	30	YZSI.20.058	I	58	YZSI.20.017	III
3	YZCI.18.063	I	31	TK.19.20	II	59	YZSI.20.022	III
4	YZCI.19.033	I	32	TK.19.21	II	60	YZSI.20.023	III
5	YZSI.18.009	I	33	TK.19.27	II	61	YZSI.20.030	III
6	YZSI.19.006	I	34	TK.19.28	II	62	YZSI.20.055	III
7	YZSI.19.008	I	35	TK.19.31	II	63	TK.19.04	IV
8	YZSI.19.009	I	36	TK.19.33	II	64	TK.19.06	IV
9	YZSI.19.013	I	37	TK.19.35	II	65	TK.19.07	IV
10	YZSI.19.015	I	38	TK.19.55	II	66	TK.19.10	IV
11	YZSI.20.001	I	39	TK.19.56	II	67	TK.19.42	IV
12	YZSI.20.006	I	40	TK.19.65	II	68	TK.19.43	IV
13	YZSI.20.007	I	41	TK.19.66	II	69	TK.19.44	IV
14	YZSI.20.008	I	42	TK.19.68	II	70	TK.19.50	IV
15	YZSI.20.019	I	43	YZCI.18.051	II	71	YZSI.20.004	IV
16	YZSI.20.020	I	44	YZCI.19.020	II	72	YZSI.20.005	IV
17	YZSI.20.024	I	45	YZCI.19.021	II	73	YZSI.20.021	IV
18	YZSI.20.029	I	46	B73	II	74	YZSI.20.026	IV
19	YZSI.20.033	I	47	C7	II	75	YZSI.20.027	IV
20	YZSI.20.037	I	48	TK.19.19	II	76	YZSI.20.028	IV
21	YZSI.20.039	I	49	TK.19.12	III	77	YZSI.20.036	IV
22	YZSI.20.042	I	50	TK.19.38	III	78	YZSI.20.041	IV
23	YZSI.20.043	I	51	TK.19.41	III	79	YZSI.20.049	IV
24	YZSI.20.044	I	52	YZCI.18.031	III	80	YZSI.20.051	IV
25	YZSI.20.046	I	53	YZSI.18.017	III	81	YZSI.20.054	IV
26	YZSI.20.048	I	54	YZSI.18.022	III	82	YZSI.20.056	IV
27	YZSI.20.052	I	55	YZSI.20.012	III	83	Others	Admixture
28	YZSI.20.053	I	56	YZSI.20.015	III			