



Government of Nepal
Nepal Agriculture Research Council
National Maize Research Program, Rampur, Chitwan
Characteristics of Maize Varieties Developed and Released in Nepal (1966-2015)



S. N.	Maize Variety	Released Year	Origin	Parentage	Plant height (cm)	Maturity Days	Yield potential (t/ha)	Recommended Area	Varietal Characteristics	Seed Color
1	Manakamana-6	2009 (2066 B.S.)	Nepal	Composite of 13 Populations	188-237	140-145	5.1	Mid hill and high hill	High grain yield, tolerant to Banded Leaf and Sheath Blight, thick stover, non-lodging, stay green character	Yellow
2	Manakamana-5	2009 (2066 B.S.)	Nepal	Composite of 10 Populations	191-251	140-145	6.6	Mid hill	High grain yield, tolerant to Banded Leaf and Sheath Blight, thick stover, non-lodging, stay green character	White
3	Manakamana-4	2008 (2065 B.S.)	CIMMYT (Mexico)	Population 45 C8	170	140-145	5.1	Mid hill	High grain yield, tolerant to Banded Leaf and Sheath Blight, thick stover, non-lodging, stay green character	Yellow
4	Poshilo Makai-1	2008 (2065 B.S.)	CIMMYT (Mexico)	S99 TLWQ-HG-“AB”	210	140-145	5.6	Mid hill	Lysine & Tryptophane content is doubled as compared to normal varieties	White
5	Deuti	2006 (2063 B.S.)	Zimbabwe	ZM-621 (SAD V1F1)	240	130-135	5.7	Mid hill	Tolerant to Northern Leaf Blight and Gray Leaf Spot	White
6	Shitala	2006 (2063 B.S.)	CIMMYT (Mexico)	Population 44 (AED) Tuxpino	237	138	6.1	Mid hill	Tolerant to Northern Leaf Blight and Gray Leaf Spot	White
7	Gaurab (Hybrid Maize)	2003 (2060 B.S.)	CIMMYT (Mexico)	CML-433 × CML-430	160	Rainy-117, Winter-150	9.0	Terai, Inner Terai & Foot hill	Highest grain yield, resistant to insect and diseases	Yellow

8	Manakamana-3	2002 (2059 B.S.)	CIMMYT (Mexico)	Population 22 C8	235	142	5.6	Mid hill	Tight husk cover, stay green character	White
9	Ganesh-1	1997 (2054 B.S.)	Nepal	Pool 9A	250-280	175	3.5-4.5	Mid hill & High hill	Tallest variety, suitable for maize/potato crop rotation, thick and strong stover, open husk cover, longer maturity	White
10	Rampur-1	1995 (2052 B.S.)	Nepal	Local × Exotic Germplasm	190-230	110-120	3.0-4.5	Terai and Inner Terai	Tolerance to Downy mildew	white
11	Arun-1	1995 (2052 B.S.)	Nepal	Local × Exotic Germplasm	140-200	90-100	3.5-4.5	Terai, Inner Terai and lower hill	Dwarf in plant height, non- lodging, early maturing variety	White
12	Rampur-2	1989 (2046 B.S.)	Nepal	Composite of 17 lines between exotic & local lines of Nepal	150-200	105-110	3.5-4.5	Terai and Inner Terai	Tolerance to Downy mildew	Pale yellow
13	Ganesh-2	1989 (2046 B.S.)	Nepal	Composite of 18 lines between exotic & local lines of Nepal	205-210	150-180	3-4	Mid hill & High hill	Suitable for maize/finger millet crop rotation, non- lodging and perform well in low fertility condition	Yellow
14	Manakamana-1	1986 (2043 B.S.)	Nepal	Composite of 19 lines between exotic & local lines of Nepal	188-215	120-130	3-5	Mid hill	Tight husk cover, tolerance to Downy mildew	White
15	Makalu-2*	1989 (2046 B.S.)	Nepal	Amarillo del Bajio	160-210	130-160	3.5-4.5	Mid hill & high hill	More dent type than other varieties	White
16.	Arun-2	1982 (2039 B.S.)	CIMMYT (Mexico)	UNCAC-242 × Philippines DMR	140-200	80-90	3.0	Terai, inner terai & lower hill	Dwarf plant height non- lodging reddish color of shelled cob	Light yellow
17	Janaki Makai *	1978 (2035 B.S.)	CIMMYT (Mexico)	Rampur 7434 × Blanco sub-tropical	195-200	150-160	6.48	Terai	Can be grown in winter season	White

18	Sarlahi Seto *	2035 (2032 B.S)	Philippines	Philippines DMR-2	200-260	110-120	4.13	Eastern Terai	Tolerance to Downy mildew	White
19	Rampur Composite	1975 (2032 B.S.)	Thailand	Thai Composite-1× Suwan-1	210-220	115-130	4.42	Terai, inner terai and lower hill	Tolerance to Downy mildew, tight husk cover	Orange yellow
20.	Hetauda Composite*	1973 (2030 B.S.)	Nepal	Local landraces	220-225	110-120	4.32	Inner Terai and mid hill	Susceptible to leaf blight	Yellow
21	Kakani Pahelo*	1966 (2022 B.S.)	India	Antigua G2 × Guatemala	200-220	190-200	3.0	High hill	Grown upto 6500 ft, longest maturity	Orange yellow
22	Khumal Pahelo	1966 (2022 B.S.)	India	Antigua G2D × Guatemala	205-210	120-130	4.89	Mid hill	High grain yield, non-lodging, grown upto 500 ft	Orange yellow
23	Rampur Pahelo*	1966 (2022 B.S.)	India	Composite J-1	230-255	100-105	4.72	Terai and inner terai	Resistance to stem rot and cob rot	Pale yellow
24	Rampur Hybrid- 2	2012 (2069)	Nepal	RML 4 (CA00326)/NML 2 (CML430)		120-130	7.3	Mid hill and eastern terai	Grain is semi flint and plant has cylindrical ears with irregular row arrangement	Yellow
25	Arun-3	2015 (2072)	Nepal	comprised of crosses among the early and late flint materials from mexico, the Caribbean, Central and South America and Asia	152-238	100	3.9	Mid western to Eastern Terai, Inner Terai and Mid hills; winter and spring season in Terai and Inner Terai, and summer season in mid hill	Kernel flint type, short plant height and internodes swollen	White
26	Arun-4	2015 (2072)	Nepal	formed using elite introduced germplasm and local landraces	143-247	113-115	4.2	Mid western to Eastern Terai, Inner Terai and Mid hills; winter and spring season in Terai and Inner Terai, and summer season in mid hill	Kernel flint type, short plant height. And internodes green not swollen	Yellow
27	Arun-6	2015 (2072)	Nepal	comprised of crosses among the early and late flint materials from mexico, the Caribbean, Central and South America and Asia	146-209	90	3.5	Mid western to Eastern Terai, Inner Terai and Mid hills; winter and spring season in Terai and Inner Terai, and summer season in mid hill	Kernel is flint type, thin and slightly zigzag stem and short plant height and earliest in maturity	Yellow

The varieties with asterisk () are denotified but their seeds are being conserved in gene banks.*