

26.8 Varieties and Hybrids in Safflower

Variety/Hybrid	Pedigree	Year of release	Year of Notification	Days to Maturity	Yield (kg/ha)	Salient Features	Oil Content (%)	Recommended Regions/Areas
A-1	A-482-1 X A-300	1969	1978	125-130	1200-1500	Moderately resistant to wilt, aphid	28	Karnataka, Bihar, Orissa, Rajasthan
A-300	Selection from local bulk	1957	1978	115-130	1500-1800	Moderately tolerant to wilt	28-30	Karnataka
CO-1	Sel. P1250528	1979	19(E) 14-1-1982	110	1100	Non-spiny	33	Tamil Nadu
Girna (JLSF-88)	A 1 x G 1254	1990	814(E) 4-11-1992	127	1800	Moderately tolerant to wilt	31	Khandesh region of Maharashtra
HUS-305 (Malaviya Kusum)	Sel. From germplasm	1986	471(E) 5-5-1988	165	1500	Tolerant to salt and wilt	36	Uttar Pradesh
JLSF-414 (Phule Kusuma)	JLSF-103 x GMU -216 (a)	2003	122(E) 2-2-2005	125-140	1200-1500 (R)	Tolerant to moisture stress	28-29	All India
K-1	Sel.N 852	1969		110	900	Moderately tolerant to wilt	30	Tamil Nadu
MRSA 521		2006		120-130	1000-1500 (R); 2200-2500 (I)	Resistant to wilt and tolerant to Alternaria and aphids	27	All India
N-62-8	Selection from local	1982	371(E) 29-5-1982	130	650		30	Maharashtra
N-630	Selection from local	1942						Maharashtra
Nagapur-7	Selection from local	1983	2(E) 3-1-1983	145	700		31	Maharashtra
NARI-38	Hus-305 x Manjira	2007		129-140	2038	Resistant to wilt (Fusarium oxysporum)	28	Maharashtra
S-144	GMU 372	1976	1978	128	1000-1500	Tolerant to aphid	29.5	Karnataka, Bihar
TYPE - 6503	Developed by selection	1977	1978	170-190	1200-1400	Moderately tolerant to aphid	28	UP

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TARA (143-20)	A derivative of cross N 62-8 X carthamus palcesthim m.	1978	1978	120-125	1000-1200	Erect growth	28	Maharashtra
MANJIRA	C-438	1976	1978	120-125	1000-1100	Moderately tolerant to aphid	28	AP
Bhima	A-300	1982	1982	135-140	1400-1600	Moderately tolerant to aphid	28-30	Western Maharashtra
S-4	Developed by selection from population of A-300 variety		1983	130-140	1200-1500	Moderately tol. to aphid	28	
JSF-1	Sel.IC 11839	1984	1987	140-145	1500-1600	Moderately tolerant to aphid	28-30	Madhya Pradesh, Chhattisgarh
NIRA (NRS- 209)	NS 1572 X EC 32012	1986	1987	120	1300-1500	Tolerant to slat and wilt	28	Maharashtra
MALVIYA KUSUM 305 (HUS-305)	Germplasm identity no. unknown	1986	1988	132-150	1100-1300	Tolerant to slat and wilt	36	UP, West Bengal
Sagar mutyalu (APRR-3)	EC-27250 (SF-429)	1985	1988	115-125	1000-1300	Res. to rust	28	AP
JSI-7	Sel. JSF-1909	1990	1991	142-147	1300-1400	Non-spiny	28	Madhya Pradesh and Chhattisgarh
Girna (JLSG-88)	A1 X G1254	1990	1992	130-135	1500-1800	Moderately resistant to wilt	28-30	Khandesh of Maharashtra
Sharda (BSF-168-4)	Sel. No. 168	1990	1993	125-130	1200-1800	Moderately resistant to aphid and wilt	29	Marathwada region of Maharashtra
A-2	(A-1 X 166-6) X 328	1997	1997	120-125	1200-1700	Non-spiny, moderately resistant to rust and powdery mildew, tolerant to aphids	31	Karnataka

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MKH-11	MS-5008 X NMK-3480	1997	1998	120-125	2200-3500	Moderately tolerant to wilt, Alternaria and aphid	28	All India
DSH-129	MS 9(O) X A1	1997	1998	120-125	2200-3500	Resistant to wilt, Moderately tolerant to Alternaria and aphid	30	All India
JSI-73	JSI-42 X JSI-7	1997	1999		1400-1500	Non-spiny, moderately resistant to rust, powdery mildew, wilt and aphid	31	Madhya Pradesh, Chhattisgarh
NARI-6	CO-1 X JL-6	2000	2001	126	1000-1100	Non-spiny, moderately tolerant to wilt	30	All India
NARI-NH-1	MMS X C2829-5-3a-6	2002	2002	127	1500-1900	Non-spiny, Moderately resistant to Alternaria, wilt and aphid	30	All India
Phule Kusum (JLSF-414)	JLSF- 103 X GMU -216 (a)	2003	2005	125-140	1200-2200	Tolerant to moisture stress	28-29	All India
JSI-97	NS133-1 X JSI-62	2004	2005	130-135	1500-1600	Non-spiny, tolerant to aphid, wilt and Alternaria	30	Madhya Pradesh, Chhattisgarh
NARI-H-15	MSV -10-1-5 X GMU-2369	2005	2006	126-129	2000-2200	Tolerant to aphid	28	All India
JSI-99	MEXICAN DWARF X BH-5	2004	2006	115-120	1100-1500	Tolerant to aphid, Rust and Alternaria	28-29	Madhya Pradesh, Chhattisgarh
Parbhani kusuma (PBNS-12)	PBNS -9-97 X PI 248567	2001	2007	135-140	1500-2000	Moderately tolerant to aphid, Alternaria	29	Maharashtra

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PBNS-40	Irrigated material from C-40. PRO.3	2006	2007	118-128	1500-1600	Non-spiny, Moderately tolerant to Alternaria wilt, aphid	27	All India
AKS-207	((BHIMA X TARA) X N 7) X ((AKS 15 X A1) X AKS -68))	2006	2007	120-135	1400-2000		30	Vidarbha region of Maharashtra
SSF-708	NARI-2 X JSI -99		2012	115-120	1300-2200	Moderately tolerant to aphid	29	Western maharashtra
PKV-Pink (AKS 311)	NARI-6 X JLSF-344		2013	135-140	1500	Moderately tolerant to wilt	30	Vidharbha region of Maharashtra
NARI -H-23*	TMS -3-1-9-1 X D-152-12		2014	114-156	1710	Tolerant to wilt and aphids	31	Ms, KK, MP. Chattisgarh, Rajasthan, WB
NARI-57	Carmex X C-2829-5-2		2015	118-151	1500	Resistant to wilt	29	MS, KK, MP, WB, Rajasthan, UP, Punjab, Jharkhand
TYPE-65	Local Selection	1977		120	1200(R)	Moderately tolerant to aphid	33	Uttar Pradesh