

Name	Botanical Name	Family	Origin	Soil & soil PH	Varities	Seed & Sowing	RDF	Yield
Maize	<i>Zea mays</i> L.	Gramineae	Mexico & Central america	Sandy loam-silty loam PH- 5.5 - 7.5	Ganga - 2, Ganga - 11, Deccan - 103, 105 & 107	SR - 15-20 kg/ha, SP - 75 *25 cm, 60*20 cm	120:60:40 NPK Kg/ha	70 -75 q/ha
Sorghum	<i>Sorghum bicolor</i> L.	Gramineae	East Central Africa	clay loam PH - 6.5-8.5	CSH - 5, 14, 16, 18, 21, Phule Vasudha, Phule Anuradha, Parbhani Moti, Phule Yashodha	SR - 10 - 15 Kg/ha, SP - 45 * 15 cm	100:50:50 NPK Kg/ha	25 -30 q/ha
Rice	<i>Oryza sativa</i>	Gramineae	South east Africa	good water retention soil Clay and organic matter pH 5.5 - 6.5	ambemohar, karjat 1,2,3, Sahyadri, panvel-1, 2, 3, phule mawal, Indrayani	SR-broadcast-100kg/ha seed drill -60kg/ha	100:50:50 NPK Kg/ha	60-70q/ha & short duration variety 45-55q/ha
Pearl millet	<i>Pennisetum typhoides</i> L.	Gramineae	Africa	well drained sandy loam PH - 6-6.5	BI - 104, BK - 560, BD - 111	SR - 3 - 4 Kg/ha, SP - 45*25 cm	60:30:25 NPK Kg/ha	30 - 35 q/ha
Pigeon pea	<i>Cajanus cajan</i>	Fabaceae	Africa	sandy loam-clay loam PH - 6-6.5	ICPL - 87119, BSMR - 736, Phule Rajeshwari, Vipula, AKT - 8811	SR - 12 - 15 Kg/ha, SP - 60*20 cm	25:50:00 NPK Kg/ha	20 - 25 q/ha
Black Gram	<i>Vigna mungo</i>	Leguminosae	India	sandy loam & heavy clay PH - 6.5-8.5	PDM - 1, TAU - 1, 2, Vaibhav, Kopergaon 1, AK ram 8802.	SR - 12 - 15 Kg/ha, SP - 30*10 cm	20:40:00 NPK Kg/ha	10 - 12 q/ha
Green Gram	<i>Vigna radiata</i> L.	Leguminosae	India & Central Asia	medium-heavy clay PH - 6.5-7.5	Kopergaon Mung, AKM - 9911, Pusa Vaishakhi, Phule m - 2, Jalgaon - 781, T - 44	SR - 10 - 15 kg/ha, SP - 30*10 cm	25:40:00 NPK Kg/ha	12 - 15 q/ha
Cowpea	<i>Vigna sinensis</i>	leguminosae	Central africa / India	sandy - clay PH - 6.5-7.5	Pusa basti, pusa sawari, varun-1 pusa baishakhi, amba	SR - 22-25kg/ha, SP - 30*20cm	20:50:00 NPK Kg/ha	12-15 q/ha
kidney bean	<i>Phaseolus acontifolia</i> L.	leguminosae	India & Central Asia	sandy loam PH - 6.5 - 7.5		SR - 12-15 kg/ha SP - 45*20 cm	25:50:00 NPK Kg/ha	6-8q/ha
Soyabean	<i>Glycine max</i>	leguminosae	China and Asia		PK-1029, Phule kalyani, CO-1, CO-2, MACS-450	SR-line sowing-75-80kg/ha, Dibbling-40-50kg/ha	50:75:00:20 NPKS kg/ha	20-25 q/ha
Groundnut	<i>Arachis hypogaea</i>	Leguminosae	Brazil	sandy, sandy loam & heavy black soil PH - 5-5.5	Greshma, abhay, poorva, phule Pragati, Kopergaon-1, 3, karad-4-11	SR-Bunchy 80-100kg/ha, Spraying type 60-80 kg/ha	20:40:50-60:30:40 NPK Kg/ha	sprading-20-330q/h bunch 15-20q/ha
Sesamum	<i>sesamum indicum</i> l	Leguminosae/p adilaceae	South west Africa	sandy, alkaline & acidic soils PH - 5.5 - 8.0	Phu-le til-1, Krishna, pratap N-32, patan-64, TMV-2, 3, LT-408	SR-2.5-3kg/ha SP - 30*15	10:60:30 NPK Kg/ha	5-6q/ha
Niger	<i>Guizotia abyssinica</i>	Solanaceae	Abyssinia (ethiopia)	sandy deep clay loam PH - 5.2 - 7.3	GA-10, phulbani, GAZ, TN-5, Gujarat-niger	SR-broad-8 kg/ha, line sowing -5kg/ha SP - 30*10cm	20:20 NP Kg/ha	4-5q/ha
cotton	<i>gossypium herbaceum</i>	malvaceae	india	alluvial, black, red, laterite soils PH - 5.5 - 8.5	phule-688, phule-492, aka-4, aka-5, aka, mech-1	SR - AC 15-25 kg/ha DC-10-18 kg/ha HY-2.5 - 3kg/ha	HY :100:50:50 NPK kg/ha IP : 80:40:40 NPK kg/ha	HY : j-40 q/ha
jute	<i>corchorus capsulans</i>	tiliaceae	indo burma region	clay to sandy loam PH : 7.5	baldev, naveen, basudev, sonali, mahadev, jaydev	SR white jt - 6-8 kg/ha tossa jt - 4-5kg/ha	20:60N:20-40P:20-60K kg/ha	13q/ha
Fodder crops								
Hybrid napier	<i>Pennisetum purpureum</i>	poaceae		sandy soil pH 6.5 to 8.0	NB21, Pusa giant, Punjab, Yeshwant, phule jayant, JGFRI-3, 7, 10	root slip or stem cutting- 60x60cm is 27777 100x100cm is 1000	50:40:20 NPK kg /ha	first year 200to 300t/ha 2nd year 150to100t/ha a 200
Sorghum	<i>Sorghum bicolor</i> L.	poaceae	East Central Africa	well drained sandy loam PH - 6-6.5	Mp chari, sudhiu, pioneer ruchira, sutak, Nilwa, GFS-3, GFS-4	SR-Improved variety 40kg/ha and hybrid 30kg/ha	100:50:40 NPK kg/ha	300-450q/ha single cut & -600 q/ha 2nd cut
Maize	<i>Zea mays</i> L.	poaceae	Mexico & Central america	well fertile drained soil pH 6 to 7.5	ganga safed-2, Ganga-5, Pioneer hybrid, african tall, Vijay, ranjit	SR-75-80kg/ha SP-12-30 cm dist betn 2 rows	100:50:50 NPK Kg/ha	450-500q/ha winter 500-600q/ha
Cowpea	<i>Vigna sinensis</i>	Leguminosae	India & Central Asia	sandy, & acidic soils PH - 5.5 - 6.5	GFC-1 GFC 2, GFC 3, GFC 4, Sweta, bundable lobia	SR-40kg/ha SP-30cm dist betn two rows	20 kg N, 40 kg P	300-350q/ha
Bajra	<i>Pennisetum typhoides</i> L.	Gramineae	africa or india	loamy, sandy loam, & medium black pH 6-7	Giant bajra, PHD12, PHD10, L72, L74	SR-10-12kg/ha Sp-30-45cm dist bet two rows	60:30:30NPK kg/ha	rainfed-150-200 q/ha & irrigated 450-500q/ha

