

**Table 2.3: List of field crop varieties/hybrids released and notified in 2018**

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>CEREALS</b>				
<b>Rice</b>	Daksha (KMP-175)	Karnataka	45.0-50.0	Suitable for recurring drought and rainfed condition, aerobic rice, maturity: 110-115 days, tolerant to sheath blight and sheath rot.
	JR-81	Madhya Pradesh	55.0-60.0	Suitable for irrigated conditions, long slender grains, maturity: 120-125 days.
	Improved Chinnor	Madhya Pradesh	30.0-32.0	Suitable for irrigated conditions, medium slender aromatic rice, maturity: 150-155 days.
	Improved Jeera Shankar	Madhya Pradesh	30.0-32.0	Suitable for irrigated conditions, aromatic short bold rice, maturity: 140 days.
	Mahisagar (IET 22100)	Gujarat	50.0-55.0	Suitable for irrigated mid early conditions, medium slender grains, maturity: 115-120 days.
	CN 1272-55-105 (IET-19886)	WB, Bihar, Orissa, AP, Karnataka & Maharashtra	54.0	Suitable for irrigated long duration condition, maturity 145-150 days.
	CO52	Tamil Nadu	61.9	Suitable for irrigated condition as transplanted rice, medium slender grains, maturity: 135 days, resistant to brown plant hoppers and leaf hopper.
	JRB 1 (IET 23422)	Madhya Pradesh	45.2-71.4	Suitable for irrigated early condition, short bold grains, maturity: 115 days.
	GNRH-1(NVSR-H-1003) hybrid	Gujarat	50.7	Suitable for transplanted rice growing areas, first rice hybrid of Gujarat, long slender grains, maturity: 110-115 days, tolerant to insect pests.
	GNR-5 (NVSR-6137)	Gujarat	57.9	Suitable for salt affected rice growing areas of Gujarat, long slender grain, maturity: 125 days, salinity tolerant, tolerant to brown plant hopper (BPH).
	CO 43 Sub-1 (IET 25676)	Tamil Nadu, Andhra Pradesh, Odisha, Karnataka	40.4	Suitable for irrigated lowland ecosystems during Rabi, developed through Marker Assisted Backcross Breeding (MABB), short bold grains, maturity: 135-140 days, tolerant to flash flooding/ submergence up to 2 weeks.
	27P37 PR 14101 (IET 24844) Hybrid	Chhattisgarh, Madhya Pradesh & Maharashtra	60.0-65.0	Suitable for irrigated conditions, high yielding hybrid with long bold grain, maturity: 125-130 day.
28S41 PR 14109 (IET 24891) Hybrid	UP, Odisha, WB, Jharkhand, Maharashtra, MP, Chhattisgarh, Telangana, AP, Karnataka & TN	60.0	Suitable for irrigated conditions, maturity: 134-138 days, resistant to bacterial leaf blight, tolerant to leaf blast.	

# Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Rice	28P67 PR 14105 (IET 24879) Hybrid	Uttar Pradesh, Bihar, Jharkhand, Odisha, West Bengal, Chhattisgarh and Maharashtra	65.0	Suitable for irrigated conditions, long bold grain maturity: 130-135 days, tolerant to neck blast and brown spot.
	DRR Dhan 47 (IET 23356)	Telangana, Andhra Pradesh, Karnataka, Kerala and Pudducherry	50.0	Suitable for irrigated/transplanted and low fertility ecology, long bold grain, maturity: 110-115 days, lodging resistant, drought tolerant and shattering tolerant, resistant to blast.
	DRR Dhan 48 (IET 24555)	Andhra Pradesh, Telangana, Tamil Nadu, Karnataka and Kerala	50.0-55.0	Suitable for irrigated/transplanted production ecology, high zinc line with BLB resistance maturity: 135-140 days, lodging resistant, fertilizer responsive, non-shattering.
	DRR Dhan 49 (IET 24557)	Gujarat, Maharashtra & Kerala	50.0-55.0	Suitable for irrigated/transplanted and medium fertility ecology, high zinc line (25.2 ppm) with BLB resistance, maturity: 125-130 days, lodging resistant, shattering tolerant, fertilizer responsive.
	DRR Dhan 50 (IET 25671)	Andhra Pradesh, Telangana, Tamilnadu, Karnataka, Bihar, Odisha, Chhattisgarh, UP & MP	58.6 (normal) 37.5 (drought) 25.3 (submergence)	Suitable for irrigated/transplanted and rainfed low land and drought prone areas, medium slender grains, maturity: 140-145 days, lodging resistant, drought tolerant, submergence tolerant.
	DRR Dhan 51 (IET 25484)	Uttar Pradesh, Gujarat, Telangana & Chhattisgarh	45.0-50.0	Suitable for irrigated rice ecosystem, developed by Marker Assisted Backcross Breeding (MABB), short bold rice, maturity: 135-140 days, non-lodging, responsive to fertilizer application, resistant to blast.
	CAU-RI (IET 23544)	Manipur & Meghalaya	55.0-65.0 (normal cultivation) 23.95 (upland condition)	Suitable for rainfed direct seeded/transplanted upland hill and terrace condition, maturity: 130-135 days, moderately tolerant to drought.
	Him Palam Lal Dhan-1 (HPR 2795)	Himachal Pradesh, Meghalaya and Manipur	35.0	Suitable for low elevated hills under rainfed ecology for direct sowing, maturity: 120-124 days, drought tolerant, tolerant to blast, resistant to leaf and neck blast under natural epiphytotic conditions in low elevated hills.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Rice	Punjab Basmati-4 (RYT 3404) (IET-25399)	Punjab	43.2	Suitable for lowland irrigated rice ecosystem, developed by Marker Assisted Backcross Breeding (MABB), scented grains, maturity: 145 days, this genotype is resistant to all the 10 pathotypes of bacterial blight pathogen prevalent in the Punjab state.
	Punjab Basmati-5 (RYT 3432) (IET-26153)	Punjab	37.0	Suitable for lowland irrigated rice ecosystem, developed by Marker Assisted Backcross Breeding (MABB), long slender aromatic rice, maturity: 137-140 days, this genotype is resistant to all the 10 pathotypes of bacterial blight pathogen prevalent in the Punjab state.
	PR-126 (RYT 3379) (IET-24721)	Punjab	76.1	Suitable for irrigated mid-early rice ecosystem, maturity: 123 days, this genotype is resistant to 7 of the 10 pathotypes of bacterial blight pathogen known in the Punjab state.
	MDU.6 (IET-23994)	Tamil Nadu	61.1	Suitable for irrigated early condition, long slender rice, maturity: 115-120 days, non-shattering.
	PDKV Kisan (SKL-22-39-31-25-31-34)	Eastern Vidarbha Zone of Maharashtra	40.0-42.0	Suitable for irrigated and assured rainfall during kharif season in transplanted condition, medium slender grains, maturity: 130-135 days, resistant to leaf blast, bacterial leaf blight (BLB) and gall midge biotype 4.
	CNRH 102 (IET 22913)	West Bengal	50.0-60.0	Suitable for irrigated/ rainfed condition, medium slender grains, maturity: 125 days, resistant to lodging and tolerant to shattering.
	Ranjit SUB-1	Assam	55.0	Suitable for lowland rice ecology, medium slender grains, maturity: 145-150 days, can tolerate upto 12 days complete submergence. Non-lodging, non-shattering.
	Bahadur SUB-1	Assam	60.0	Suitable for lowland rice ecology, medium bold grains, maturity: 145-150 days, can tolerate upto 12 days complete submergence, non-lodging, non-shattering.
	CSR-46 (CSR 2K 262)	Uttar Pradesh	6.0-6.5 t/ha (under non-stress soil ) 3.5-5.0 t/ha (salt-affected soils)	Suitable for alkalinity/sodicity condition, maturity: 125-135 days, long slender grains, tolerant to alkalinity (pH 9.8-10)/ sodicity.
	Gobinda (OR 2324-8) IET 21009	Odisha	40.0	Suitable for rainfed and irrigated shallow medium land, maturity: 135 days.

# Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Rice	Hasanta (OR 2328-5) IET 21477	Odisha	39.5	Suitable for rainfed and irrigated shallow lowland, maturity: 145 days, tolerant to sheath rot.
	Ashutosh (OR 2331-14) IET 21341	Odisha	40.0	Suitable for rainfed shallow and semi-deep lowland, maturity: 150 days.
	Trupura Chikan Dhan	Tripura	56.0-58.0 ( <i>boro</i> season under irrigated conditions)	Suitable for irrigated and favourable rainfed shallow lowland and in <i>boro</i> season, very fine grain variety, maturity: 120-125 days.
	Tripura Sarat	Tripura	58.0-60.0 ( <i>boro</i> season)	Suitable for irrigated and favourable rainfed shallow lowland in <i>boro</i> season, maturity: 120-125 days.
	Tripura Nirog	Tripura	58.0-60.0	Suitable for irrigated and favourable rainfed shallow lowland and in <i>kharif</i> as well as <i>boro</i> season, maturity: 125-128 days.
	Tripura Hakuchuk – 2	Tripura	55.4	Suitable for transplanted lowland as well as direct seeded upland, under transplanted and 33 q/ha under direct seeded upland, maturity: 100-105 days in transplanted & 90-95 days in direct seeded, drought tolerant.
	Tripura Khara -2	Tripura	56.0-58.0 (Normal)	Suitable for rainfed, drought prone lowlands, variety performed very well under moderate to severe drought stress, maturity: 115-120 days, drought tolerant.
	Tripura Khara -1	Tripura	56.0-58.0 (Normal)	Suitable for rainfed drought prone lowlands, the variety performed very well under moderate to severe drought stress, maturity: 115-120 days, drought tolerant.
	Tripura Hakuchuk – 1	Tripura	55.4 (in 100 days under transplanted conditions) 33.0 (under direct seeded upland)	Suitable for transplanted lowland as well as direct seeded upland, maturity: 100-105 days in transplanted & 90-95 days in direct seeded, drought tolerant.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Rice	Tripura Jala -1	Tripura	50.0-55.0	Suitable for water stagnant lowlands, semi deep water condition, very good for making high quality puffed rice, maturity: 145-150 days.
	Tripura Aush	Tripura	50.0-54.0	Suitable for transplanted in August (spring / summer), maturity: 100-105 days, drought tolerant.
	VNR-2228 (IET 24951) VNR-218	Punjab, Haryana, Uttarakhand, MP, Rajasthan, Chhattisgarh and Maharashtra	63.7	Suitable for transplanted condition in irrigated and rainfed ecologies in <i>kharif</i> season, mid-early duration hybrid, maturity: 125-130 days, resistant to lodging.
	VNR-2111 PLUS (IET 24075) (VNR 212)	Punjab, Haryana, Uttarakhand, WB, Odissa, Bihar, UP, Jharkhand, MP, Chhattisgarh & Maharashtra	63.0	Suitable for irrigated and rainfed ecologies in <i>kharif</i> season in transplanted condition, maturity: 115-120 days, tolerant to terminal water stress.
	VNR-216 (IET 25287)	Chhattisgarh, Maharashtra & Gujarat, West Bengal	59.0	Suitable for irrigated and rainfed ecologies in <i>kharif</i> season, long duration hybrid, short bold grains, maturity: 140-145 days, tolerance to lodging, BPH and BLB, high tolerance to lodging under high winds.
	Gujarat Anand Rice-14 (GAR-14) (IET-24619)	Western region of Maharashtra and Gujarat for Kharif season	51.0	Suitable for irrigated transplanted growing area of <i>kharif</i> seasons, aromatic short grain, aromatic short slender rice, maturity: 137-140 days, resistant to neck blast.
	ADT 52 (IET 25521) AD 13121	Central Zone Chhattisgarh and Maharashtra	49.0	Suitable for irrigated rice ecosystem ( <i>kharif</i> ), maturity: 140-150 days, moderately resistant to leaf blast, neck blast, sheath rot grain discoloration and RTD.
	CSR 60 (IET 25378) (CSR 2013 MI-10)	Uttar Pradesh, Pondicherry	34.0	Suitable for high fertility, transplanted and <i>kharif</i> condition, long slender grains, maturity: 120-130 days, resistant to lodging, shattering and suitable to high alkaline irrigated conditions.
	CSR 56 (IET 24537)	Uttar Pradesh & Haryana	35.0	Suitable for irrigated, alkaline, high fertility, transplanted and <i>kharif</i> condition, long bold grains, maturity: 120-130 days, resistant to leaf blast, blight, brown spot, glume discoloration diseases, stem borer, leaf folder and white backed plant hopper
	YNP 9761(IET 24338)	Chattisgarh, West Bengal, Bihar & Odisha	62.0	Suitable for <i>kharif</i> irrigated areas, mid-early, yield: 62q/ha, maturity: 135-140 days, moderately resistant to leaf blast, sheath blight and brown spot.
	Bina Dhan 17 GSR (SAGC&) (IET 24460)	West Bengal, Assam and Tripura	55.0-60.0	Suitable for irrigated mid-early conditions, long slender, maturity: 115-120 days, resistant to BLB, sheath blight.

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Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Rice	BRR1 Dhan 69 (WTR 1) (IET 24461)	West Bengal, Assam and Tripura	55.0-60.0	Suitable for Boro cultivation, medium bold seeds, maturity: 145-155 days, resistant to blast, BLB, sheath blight and stem borer, tolerant to cold in vegetative phase.
	BRR1 Dhan 75 (Hua 565) (IET 24459)	West Bengal, Assam and Tripura	45.0-50.0	Suitable for irrigated condition, long bold, maturity: 110-120 days, moderate resistance to blast, BLB, sheath blight, stem borer, BPH, GLH.
	Pusa Samba 1850 (IET 25480) (Pusa 1850-27)	Chattisgarh and Odisha	47.7	Suitable for irrigated, high fertility and <i>kharif</i> season, maturity: 140-145 days, it is a MAS derived rice variety, highly resistant to blast.
	ADT 51 (AD 09367) (IET 23617)	Tamil Nadu	65.3	Suitable for semi-dry and transplanted cultivation in samba season (August sowing) in Cauvery delta districts of Tamil Nadu, for both direct seeding (Semidry) and transplanting, medium slender grains, maturity: 150-160 days, resistant to blast, yellow stem borer and leaf folder.
	KHP-13 (Bharath) (IET 21479)	Karnataka	50.0-55.0	Suitable for lowland situations of Hill Zone of Karnataka, medium slender grains, maturity: 165-170 days, non-lodging and blast tolerant.
	KKP -5	Karnataka	80.0-85.0	Suitable for irrigated area of southern Karnataka, high yielding, medium slender grain, maturity: 130-135 days, resistant/tolerance to blast, BLB and BPH.
	Pradeep (IET 20923) (OR 2327-23)	Odisha	50.0	Suitable for rainfed and irrigated medium lands, long slender, maturity: 125-135 days, moderately resistant to leaf blast, sheath blight, sheath rot and whorl maggot.
	Pratibha (IET 21582) (OR 2172-7)	Odisha	52.0	Suitable for rainfed and irrigated medium lands, long slender, maturity: 120-130 days, resistant to leaf blast, brown spot and sheath rot.
	Gomati Dhan (TRC-2005-1) (TRC-05-8-4-42-8-3-7) (IET 21512)	South Tripura, West Tripura and Dhalai districts of Tripura.	58.0-60.0	Suitable for rainfed shallow lowland and irrigated land in <i>kharif</i> season, medium slender grain with very good cooking quality, completely free from chalkiness, maturity: 130-135 days.
	Khowai (TRC-2005-3) (TRC-05-2-6-4-39-3-6) (IET 21564)	South Tripura, West Tripura and Dhalai districts of Tripura	54.0-56.0	Suitable for rainfed shallow lowland in <i>kharif</i> and irrigated land in <i>boro</i> season, maturity: 130-135 days.
	Muktashree (IET 21845)	West Bengal	52.3 (Boro) 41.70 (Kharif)	Suitable for irrigated, transplanted condition, maturity mid-early, moderately tolerant to sheath blight, brown spot, leaf folder and moderately resistant to leaf blast, black plant hopper, gall midge, resistant to lodging and grain shattering.
Krishna (RNR-2458) (IET-21492)	Telangana	60.0	Suitable for irrigated medium ecosystem, maturity: 135 days grain type: short slender, resistant to blast, moderately resistant to sheath rot.	

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Rice	JGL 11118 (Anjana)	Telangana	62.0	Suitable for irrigated early, maturity: 115-135 days, resistant to gall midge, tolerant to bacterial leaf blight and cold, fine grain.
	JGL 17004 (Prathyumna)	Telangana	50.0	Suitable for late planting under contingency situation, irrigated very early, maturity: 95-120 days, resistant to gall midge, cold, tolerant to blast, fine grain.
	JGL 11727 (Pranahitha)	Telangana	62.0	Suitable for irrigated medium, fine grain, maturity 135 days, resistant to gall midge, tolerant to bacterial leaf blast and tolerant to bacterial leaf blight.
	CR Dhan 801 (IET 25667) (IR 96322-34-223-B-1-1-1- CR3955-2)	Andhra Pradesh, Telangana, Odisha, Uttar Pradesh and West Bengal	55.0	Suitable for rainfed shallow lowland, maturity: 140-145 days, moderately resistant to bacterial blight, rice tungro virus, leaf folder and case worm, tolerant to submergence and drought.
	Mukul (CR Dhan 311) (IET 24772) (CR2829-PLN-100)	Odisha	44.6-48.5	Suitable for rainfed shallow lowland and medium land, maturity: 120-126 days, tolerance to leaf blast, glume discoloration, brown spot, rice tungro virus disease and bacterial leaf blight, moderately tolerance against gall midge and stem borer, non lodging and resistant to shattering.
	CR Dhan 510 (IET 23895) (CR2593-1-1-1-1)	West Bengal and Odisha	52.6 (West Bengal) 40.1 (Odisha)	Suitable for rainfed lowland (semi-deep water ecology), maturity: 160-165 days, moderately resistance to leaf blast, neck blast and bacterial blight, stem borer and leaf folder, tolerant to lodging.
	CR Dhan 204 (IET 21692)	Jharkhand and Tamil Nadu	40.0	Suitable for mid early aerobic conditions, maturity 110-115 days, good grain quality, moderately resistant to leaf blast, neck blast, brown spot, sheath rot, stem borer.
	CR Dhan 306 (IET 22084)	Madhya Pradesh, Bihar and Puducherry	50.0	Suitable for irrigated mid early conditions, maturity: 120-125 days, moderately resistant to brown spot, stem borer, leaf folder, white backed plant hopper.
	CR Dhan 205 (IET 22737)	Tamil Nadu, Gujarat, Odisha and Punjab	37.0	Suitable for early aerobic conditions, maturity: 105-110 days, moderately resistant to leaf blast, brown spot, sheath rot, stem borer, leaf folder.
	Samvruddh (IET 23272) (MTU 1155)	Odisha, West Bengal, Chhattisgarh and Maharashtra.	57.0	Suitable for irrigated transplanted conditions, maturity: 115-125 days, moderately resistant to leaf blast, BLB, brown spot, sheath rot, leaf scald, stem borer, resistant to neck blast and rice tungro rice disease, resistance to lodging (non-lodging), low shattering and highly responsive to nitrogen.

# Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Rice</b>	Ksheera (IET 24495) (MTU 1172)	Odisha and Andhra Pradesh.	4.5-5.0 t/ha (semi deep water conditions), 5.5-6.0 t/ha (normal irrigated conditions)	Suitable for semi deep water ecosystem, maturity: 150 days (kharif), 110-140 days (rabi), low grain shattering, moderately resistant to leaf blast, sheath rot, BLB, brown spot.
	Varam (IET 25495) (MTU 1190)	Chhattisgarh, Maharashtra, Andhra Pradesh, Telangana and Tamil Nadu.	55.0-65.0	Suitable for irrigated transplanted conditions, maturity: 140-145 days (kharif), 125-130 days (rabi), moderately resistant to leaf blast, neck blast and BLB.
	S9002 (NK 17508) (IET 24904) Hybrid	Haryana, Uttar Pradesh, Jharkhand, Maharashtra.	65.0	Suitable for irrigated early condition, maturity: 120 days, moderately resistant to leaf blast and neck blast.
	S4001 (NK 14722) (IET 24117) Hybrid	Uttar Pradesh, Jharkhand	62.0	Suitable for irrigated mid early condition, maturity: 125-130 days, moderately resistant to leaf blast and neck blast.
	Chhattisgarh Devbhog (IET 23879) (R-1656-1146-5-513-1)	Uttar Pradesh and Chhattisgarh.	44.2	Suitable for irrigated ecosystem of Chhattisgarh and for cultivation on rainfed bunded with medium to heavy textured soils of Chhattisgarh plains, maturity: 135-140 days.
	Zinco Rice-MS (IET 25477) (R-RHZ-LI-23)	Chhattisgarh, West Bengal and Odisha.	58.0	Suitable for early/medium sown condition, rainfed and irrigated condition, maturity: 100 days, resistant to lodging and shattering, moderate tolerance to leaf blast, brown spot, sheath rot and rice tungro disease.
	DRR Dhan 52 (IET 23354) (RP5125-12-5-3-B-IR84898-B)	Haryana, Gujarat and Odisha.	59.0	Suitable for direct seeding, drought tolerant, heat tolerant, maturity: 110-115 days (early), resistant to blast and moderate resistance to neck blast, sheath rot, sheath blight, brown spot and rice tungro disease, lodging resistance.
	Ratnagiri-8 (RTN 28-1-5-3-2) (IET 25493)	Odisha, Uttar Pradesh, Chhattisgarh, Maharashtra, Andhra Pradesh and Telangana.	40.7	Suitable for early sown and transplanted midlands conditions, maturity: 135-138 days, non-lodging, non-shattering, moderately tolerant to water stress and costal salinity.
	CR Dhan 309 (IET 25345) (IR 95797-CR3847-2-1-1-1-1)	Assam, Chhattisgarh and Uttar Pradesh.	50.0	Suitable for early irrigated condition, maturity: 115 days, moderately tolerant to leaf blast and rice tungro virus, resistant to stem borer, leaf folder and whorl maggot leaf.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Rice	CR Dhan 802 (SUBHAS) (IET 25673) (CR3925-22-7)	Madhya Pradesh and Bihar.	22.0 (submergence) 41.0 (normal conditions)	Maturity: 140 days, moderately resistant to bacterial blight, sheath rot and rice tungro virus, resistant to stem borer, leaf folder, plant hopper and case worm.
	CR Dhan 511 (IET 23906) (CR2789-9-2)	West Bengal and Odisha.	37.6-47.3	Maturity: 160-165 days, moderately resistant to leaf blast, neck blast, bacterial blight diseases, stem borer and leaf folder.
	Chhattisgarh Zinc Rice-2 (CGZR-2) (IET 23829)	Chhattisgarh	45.0	Suitable for rainfed and irrigated condition under early/medium sown conditions, medium maturity, high zinc rich rice, short slender translucent grain.
	Trombay Chhattisgarh Dubraj Mutant-1 (TCDM-1) (IET 26249)	Chhattisgarh	39.9	Suitable for irrigated ecosystem of Chhattisgarh for cultivation on rainfed bunded having heavy textured soils of Chhattisgarh plains, maturity 125-130 days.
	Jammu Basmati 129 (SJR 129-2-2) (IET 24597)	Basmati growing belt of Jammu & Kashmir	44.3	Suitable for irrigated ecology, medium maturity, moderately resistant to bacterial leaf blight diseases, brown spot, stem borer and leaf folder.
	PDKV Tilak (SYE-503-78-34-2)	Maharashtra	35.0-40.0	Suitable for irrigated areas in transplanted conditions during kharif season in Vidarbha region, maturity: 140-145 days.
	Ratnagiri-6 (RTN 65-1-2-2-2) (IET 25529)	Maharashtra	45.0	Suitable for transplanted conditions of mid land paddy growing areas, maturity: 118-125 days, moderately resistant to leaf blast and bacterial leaf blight disease, stem borer leaf folder and gall midge.
	Ratnagiri-7 (RTN RR-4) (IET 25448)	Maharashtra	40.0-45.0	Suitable for transplanted conditions of mid land paddy growing areas, maturity: 122-125 days, moderately resistant to leaf blast and bacterial leaf blight disease, resistant to stem borer, leaf folder and gall midge.
	Sakoli-9 (SKL-2-50-56-45-30-60)	Maharashtra	38.0-42.0	Suitable for transplanted conditions during kharif season in Vidarbha region, maturity 130-135 days, medium slender grain, moderately resistant to leaf blast, neck blast, sheath rot, brown spot and stem borer.
	HUR-1304 (Malviya Dhan-1304) (IET 23985)	Uttar Pradesh	35.5	Suitable for irrigated ecology for whole UP, maturity 108-110 days, moderately resistant to rice neck blast, bacterial leaf blight and glumes discolouration, tolerant to brown plant hopper and store pest weevil.
HUR-1309 (Malviya Sugandh Dhan-1309) (IET 23873)	Uttar Pradesh	50.0-55.0	Maturity: 115-120 days (medium), aromatic short grain, moderately resistant to rice neck blast disease, and glumes discolouration.	

# Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Rice	GR-15 (NVSR-6121)	Gujarat	55.4	Suitable for transplanted areas of Gujarat, contains high zinc (21.58 ppm), good amount of amylose content (24.81%), long bold grain, maturity 120-125 days, moderately resistant against bacterial leaf blight, grain discoloration and sheath rot, tolerant to brown plant hopper, moderate resistance against stem borer, leaf folder and sheath mite.
Wheat	KRL 283	Uttar Pradesh	20.9	Suitable for timely sown, irrigated conditions salt affected soils of U.P., maturity: 134-144 days, resistant to leaf blight, karnal bunt and hill bunt.
	DBW 168	Maharashtra and Karnataka.	47.46	Suitable for timely sown, irrigated conditions, maturity: 95-141 days (Avg. 115 days), resistant to brown and black rusts.
	DBW 173	Punjab, Haryana, Delhi, Rajasthan (excluding Kota and Udaipur division), Western UP (except Jhansi division), Jammu and Kathua district of J&K, Paonta Valley and Una district of HP and Tarai region of Uttarakhand	47.2	Suitable for irrigated, late sown conditions, heat tolerant, high protein (12.5 %), high Fe (40.7 ppm) and Zn (33.1 ppm), maturity: 106-138 days (Avg. 122 days), resistant to yellow and brown rusts.
	UAS 375	Maharashtra and Karnataka	21.4	Suitable for timely sown, rainfed conditions, high protein (13.8 %), maturity: 97-117 (Avg. 103) days, resistant to brown and black rusts and karnal bunt.
	Pusa Wheat 1612 (HI 1612)	Eastern UP, Bihar, Jharkhand, WB (excluding hills), Odisha, Assam and plains of other NE States	37.6	Suitable for timely sown, restricted irrigated conditions of NEPZ, high protein content (11.5%), maturity: 113-144 (Avg. 125) days, tolerant to heat stress, resistant to stripe, leaf rusts, leaf blight and loose smut.
	MACS 4028 (d)	Maharashtra and Karnataka	19.3	Suitable for rainfed, low fertility, timely sown conditions in Peninsular zone, high protein (14.7 %), iron (46.1 ppm) and Zinc (40.3 ppm), maturity: 99-105 (102) days, resistant against stem and leaf rusts, foliar aphids, root aphids and brown wheat mite.
	Pusa Wheat 8777 (HI 8777)	Maharashtra and Karnataka	18.5	Suitable for rainfed timely sown conditions in Peninsular zone, high levels of essential micronutrients like iron and zinc etc., maturity:105-110 (108) days, tolerant to heat stress, stem rust, leaf rust, Karnal bunt, loose smut, flag smut and foot rot.
	HUW 669 (Malviya 669)	Uttar Pradesh	24.1	Suitable to late sown, rainfed/limited irrigation condition, maturity: 130-140 days, drought tolerant, resistant to all the three rusts, leaf blight, lodging, having fertilizer responsiveness.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Wheat	Chhattisgarh Genhu-3 (CG 1013)	Chhattisgarh	33.3	Suitable for irrigated timely sown conditions, high hectolitre weight 78.1 kg/l, maturity: 119 days, resistance to brown rust.
	UAS-334	Karnataka	49.1	Suitable for irrigated timely sown conditions, good protein (13.3 %) and zinc (43.1 ppm) content, maturity: 100-107 days, resistance to stem and leaf rust.
	AAI-W9 (SHIATS-w9)	Uttar Pradesh	36.0-40.0	Suitable for irrigated late sown conditions, maturity: 110 days, resistant to lodging, tolerant to higher terminal temperature (38-40°C) of March/April, resistant to all the three rust/diseases viz. stripe rust, leaf rust, stem rust as well as smut, leaf blight and kernel bunt in field condition.
	AAI-W10 (SHIATS-w9)	Uttar Pradesh	45.0 – 50.0	Suitable for timely sowing (15-30 November) under irrigated conditions, maturity: 120 days, resistant to lodging, tolerant to higher terminal temperature (35-40°C) of March/April, resistant to all the three rust viz. stripe rust, leaf rust, stem rust as well as smut, leaf blight in field condition.
	PBW 752 (Bread wheat)	Punjab, Haryana, Delhi, Rajasthan, UP, Jammu & Kashmir, Himachal Pradesh and Uttarakhand.	49.7	Suitable for late sown, irrigated conditions, maturity: 120 days, hard grain, hardness index (84), protein content (12.4%), high level of resistance to yellow and brown rusts, better adaptability to change in sowing time.
	PBW 757 (Bread wheat)	Punjab, Haryana, Delhi, Rajasthan, UP, Jammu & Kashmir, Himachal Pradesh and Uttarakhand.	36.7	Suitable for very late sown, irrigated conditions, maturity: 104 days, good chapati quality (8.07), high Zn content (42.3 ppm), high degree of resistance to yellow and brown rusts.
	Pusa Wheat 3237 (HD 3237)	Punjab, Haryana, Delhi, Rajasthan Uttar Pradesh, Jammu & Kashmir, Himachal Pradesh and Uttarakhand.	48.4	Suitable for restricted irrigation, timely sown conditions, maturity: 145 days, good chapati making quality (7.98), resistance to yellow and brown rust, less reduction in yield at zero irrigation.
	Pusa Wheat 1620 (HI 1620)	Punjab, Haryana, Delhi, Rajasthan, Uttar Pradesh, Jammu & Kashmir, Himachal Pradesh and Uttarakhand.	49.1	Suitable for timely sown, restricted irrigation conditions, maturity: 146 days, good chapati making quality (7.52), resistance to yellow and brown rust, tolerance to lodging
	Pusa Yashasvi (HD 3226)	Punjab, Haryana, Delhi, Rajasthan, Uttar Pradesh, Jammu & Kashmir, Himachal Pradesh and Uttarakhand.	57.5	Suitable for irrigated, timely sown condition, maturity: 142 days, high wet gluten content (30.85%), resistance to yellow and brown rust.

# Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Wheat</b>	Karan Vandana (DBW 187)	Uttar Pradesh, Bihar, Jharkhand, West Bengal, Odisha, Assam and North Eastern States.	48.8	Suitable for timely sown irrigated conditions, maturity: 120 days, having good biscuit spread factor (8.6 cm), high Fe content (43.1 ppm), resistant to yellow and brown rust.
	Chhattisgarh Amber Wheat (CG 1018)	Chhattisgarh	35.0	Suitable for timely sown restricted irrigated conditions, maturity: 127 days, resistant to brown and black rust
	Jammu Wheat 584 (JW 584)	Jammu	-	Suitable for timely sown irrigated and mid hills conditions, bold grain, medium maturity (140-155 days), moderately resistant to all three rusts (yellow/stripe, leaf and stem rust)
	VL Gehun 967 (VL 967)	Uttarakhand	19.8	Suitable for rainfed timely sown organic conditions of Uttarakhand hills, maturity: 160-170 days, highly resistant to yellow and brown rust along very good chapatti quality.
	VL Gehun 3004 (VL 3004)	Uttarakhand	43.8	Suitable for late sown irrigated conditions of Uttarakhand plains, maturity 120-123 days, highly resistant to yellow and brown rust, posses 10.4 % protein.
	VL Gehun 2014 (VL 2014)	Uttarakhand	52.0	Suitable for irrigated timely sown organic conditions of Uttarakhand plains, highly resistant to yellow and brown rust, posses 10.8-11.1% protein.
	Unnat PBW 550 (Bread wheat)	Punjab	-	Suitable for timely sown irrigated conditions, medium maturity 140-148 days, highly resistant to yellow and brown rust.
	UP 2844	Uttarakhand	42.0	Suitable for late sown, irrigated condition, protein content (11.7%), maturity (days): 125, resistant to yellow and brown rust.
	UP 2855	Uttarakhand	52.5	Suitable for timely sown, irrigated condition, protein content (11.8%), maturity: 134 days, resistance to brown rust.
	UP 2865	Uttarakhand	45.8	Suitable for late sown, irrigated condition, protein content (12.5%), maturity: 122 days, resistance to brown rust.
<b>Barley</b>	K-1055 (Prakhar)	Uttar Pradesh	38.0	Suitable for irrigated timely sown condition, maturity: 116-145 days (Avg. 132 days), tolerant to lodging and shattering, responsive to fertilizers, resistant to yellow, brown and black rusts and foliar blight.
	Central Barley DWRB 137	MP, Gujarat, Kota and Udaipur division of Rajasthan, UP, Bihar, Jharkhand, WB (excluding hills), Odisha, Assam and plains of NE states	42.4	Suitable for irrigated, timely sown condition in CZ and NEPZ, maturity: 113-119 days (Avg. 115 days), lodging resistant, resistant to yellow, brown and stripe rust.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Barley	RD 2899	MP, Gujarat, Chhattisgarh, Kota & Udaipur division of Rajasthan, Jhansi division of UP	42.1	Suitable for timely sown irrigated conditions, high yielding, feed barley variety, maturity: 110-120 days, rust resistant
	RD 2907	Punjab, Haryana, Delhi, Rajasthan, Western U.P, Parts of J&K and HP	35.5	Suitable for timely sown irrigated, saline in alkaline area of NWPZ & NEPZ, high yielding, feed barley variety, maturity: 119-130 days, rust resistance.
	VLB 130	Uttarakhand	20.9	Suitable for rainfed timely sown organic conditions of Uttarakhand hills, medium maturity 150-155 days, highly resistant to yellow and brown rust.
Maize	Gujarat Anand White Maize Hybrid-2 (GAWMH-2)	Gujarat	39.0	Suitable for middle Gujarat Agro climatic Zone-III under rainfed <i>kharif</i> conditions, yield: 39.0 q/ha, fulfils food and nutrition security in tribal belt where white maize is preferred, maturity: 80-85 days, tolerant to stem borer ( <i>Chilo partellus</i> ).
	Shaktiman-5 (MHQPM 09-08) Hybrid	Uttar Pradesh, Bihar, Jharkhand, West Bengal, Orissa and Chhattisgarh in both Kharif and Rabi seasons	105.0	Suitable for rainfed, <i>kharif</i> season, 9.4% protein, high lysine and tryptophan (0.6% of total protein), maturity: 100 days, tolerant to TLB and MLB.
	CP. 999 Hybrid	Karnataka, Tamilnadu, Telangana and Maharashtra.	85.0	Suitable for <i>rabi</i> season under irrigated, high fertility and good management condition, maturity: 107-109 days, moderately resistant against LIR/ <i>S. inferens</i> under field condition and major insects of <i>rabi</i> season.
	CP. 838 Hybrid	Punjab, Haryana, UP, Plain Uttrakhand, Bihar, Jharkhand, WB, Odisha, Karnataka, TN, Telangana, AP, Maharashtra, Rajasthan, Gujarat	87.0-112.0	Suitable for <i>rabi</i> season under irrigated, high fertility and good management condition, maturity: 105-110 days, highly resistant to major rabi season insect <i>S. inferens</i> under natural field condition.
	MH 9344 (DMH 192) Hybrid	Karnataka, Maharashtra, Andhra Pradesh, Tamil Nadu and Telangana	91.0	Suitable for irrigated, <i>kharif</i> conditions, high plant density, performed exceedingly well under different spacing and fertilizer doses, maturity: 115-120 days, tolerant to moisture stress, highly responsive to high fertilizer and resistant to common rust and charcol rust.
	ADV-756 (ADV 0990296) Hybrid	Karnataka, Maharashtra, AP, Tamil Nadu, Telangana, Rajasthan, Gujarat, MP and Chhattisgarh	71.0-93.0	Suitable for irrigated and rainfed areas, the hybrid shows better response to higher plant density and higher fertilizer dosage, maturity: 110-115 days, multiple disease resistance, resistant to Curvularia leaf spot (CLS).

# Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Maize</b>	HTMH 5108 Hybrid	Karnataka, Maharashtra, AP, Tamil Nadu and Telangana	97.2	Suitable for rainfed and irrigated ecology, good response to high density, maturity: 112-114 days, resistant to lodging.
	HTMH 5109 (HT 51412616) Hybrid	Karnataka, Telangana, Andhra Pradesh, Tamil Nadu and Maharashtra	25.0	Suitable for irrigated, high and medium fertility soils, good performance under moisture stress conditions, maturity: 118-120 days, grains tolerant to stored grain insect-pests.
	Top Class (KMH 1411) Hybrid	Bihar, Jharkhand, WB, Odisha and Eastern Uttar Pradesh	91.4	Suitable for early sown, irrigated <i>rabi</i> conditions with medium to high fertility soil, responsive to inputs, maturity: 136-152 days (Avg. 146) days, non-lodging.
	GK 3150 Hybrid	Rajasthan, Gujarat, Chhattisgarh and Madhya Pradesh	95.0	Suitable for <i>rabi</i> , both high and low fertility conditions, maturity: 124-132 (Avg. 130) days, tolerant to lodging, highly responsive to fertilizer. Resistant to <i>Sesamia inferens</i> (2.0).
	GK 3155 Hybrid	Bihar, Jharkhand, Odisha, Uttar Pradesh and in Rabi season for West Bengal	91.0	Suitable for <i>rabi</i> under normal and high density planting, fertilizer responsive, maturity: 145-150 days, tolerant to lodging, resistant to <i>Sesamia inferens</i> (3.4).
	LG 34.05 (BL 900) Hybrid	UP, Bihar, Jharkhand, WB, Odisha, Maharashtra, Telangana, AP, Karnataka, TN, MP, Chhattisgarh, Gujarat, Rajasthan	110.0-120.0	Suitable for <i>rabi</i> in both high and low fertility conditions, medium, resistant to SDM, BLSB and C rust.
	LG 34.04 (BL 147) Hybrid	Uttar Pradesh, Bihar, Jharkhand, West Bengal and Odisha	91.0	Suitable for <i>rabi</i> in both high and low fertility conditions, maturity: 110-120 days, resistant to C rust, TLB, SDM and BLSB.
	JKMH 4222 (Hybrid)	Rajasthan, Madhya Pradesh, Chhattisgarh, Gujarat states.	59.6	Suitable for both rainfed and irrigated condition of rainy season, in all types well drained soils, tolerant to rainfed and moisture stress condition, maturity: 82-85 days, high level resistance to important diseases i.e. <i>Fusarium</i> stalk rot, Rajasthan downy mildew, Curvularia leaf spot, tolerant to <i>Chilo partellus</i> .
	DMRH 1305	J&K, HP, Uttarakhand (Hill region), Sikkim, Meghalaya, Assam, Tripura, Nagaland, Manipur & Arunachal Pradesh	60.0	Suitable for irrigated condition of rainy season, 60.0 q/ha, maturity: 93 days, high level resistance to Curvularia leaf spot, tolerant to <i>Chilo partellus</i> .
	IMHB 1532	Punjab, Haryana, Delhi, Uttarakhand, UP (NWPZ) and Rajasthan, Gujarat, Madhya Pradesh and Chhattisgarh (CWZ)	60.0	Suitable for irrigated condition of rainy season, dehusked baby corn, maturity: 50-52 days, resistant to Curvularia leaf spot.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Maize	IMHB 1539	J&K, HP, Uttarakhand (Hill region), Meghalaya, Sikkim, Assam, Tripura, Nagaland, Manipur and Arunachal Pradesh	13.0 (dehusked baby corn)	Suitable for irrigated condition of rainy season, moderately resistance response to multiple disease viz., MLB, TLB, C. Rot and BLSB and tolerant to <i>Chilo partellu</i> .
	Pusa Super Sweet Corn 1 (ASKH4)	J&K, HP, Uttarakhand (Hill region), Meghalaya, Sikkim, Assam, Tripura, Nagaland, Manipur and Arunachal Pradesh (North Eastern Hill Region), Punjab, Haryana, Delhi, Uttarakhand (Plain), UP (Eastern & Western region), Bihar, Jharkhand, Odisha, WB, Maharashtra, Karnataka, AP, Telangana & TN	75.0-98.0 (dehusked cob)	Suitable for irrigated condition of rainy season, maturity: 78 days, resistance to <i>Curvularia</i> leaf spot.
	MAH-14-5 Hybrid	Karnataka	90.0-120.0	Suitable for irrigated and rainfed conditions during <i>kharif</i> season, maturity: 110-120 days, tolerant to <i>Fusarium</i> stalk rot, TLB and DM and drought.
	ADV 762 (ADV 7022)	Karnataka, Andhra Pradesh, Telangana, Maharashtra and Tamil Nadu.	85.0	Maturity: 115-120 days, moderate resistance to <i>Turcicum</i> leaf blight (TLB), <i>Maydis</i> leaf blights (MLB), <i>Fusarium</i> stalk rot, Charcoal rot, Sorghum Downey Mildew (SDM), <i>Polysora</i> rust and common rust.
	VL Maize Hybrid-57 (FH 3754)	Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Assam, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura.	60.0	Maturity: 95-100 days (mid hills), moderately resistance against <i>H. turcicum</i> and <i>H. Maydis</i> .
	JMC-3 (PMSY 3)	Jammu	61.4	Suitable for rainfed high fertility soil of mid hills of Jammu, medium maturity 130-135 days, moderately resistant to <i>turcicum</i> leaf blight (TLB), <i>maydis</i> leaf blight, moderately tolerant to maize stem borer (MSB) and blister beetle.
	PAC 751	Uttar Pradesh	65.0-70.0	Suitable for irrigated medium ecology of UP, medium maturity 100-105 days, resistant to <i>turcicum</i> leaf blight, downy mildew, and <i>erwinia</i> stalk rot, moderately resistant to brown stripe, downy mildew, common rust.

# Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Maize</b>	Jawahar Maize 218	Madhya Pradesh	50.5	Suitable for rainfed condition in kharif and irrigated in rabi/summer, maturity 94 days, tolerant to stem and root lodging and water logging conditions, highly responsive to fertilizers, tolerant to <i>H. turcicum</i> and <i>H. maydis</i> leaf blight, tolerant to stem borer.
	Pusa Jawahar Hybrid Maize-1	Madhya Pradesh	64.7	Suitable for rainfed condition in kharif of MP, semi dent, bold seed, orange colour, maturity 85-97 days, tolerant to drought and water logging at early growth stages, resistant to flowering stock rot and Rajasthan downy mildew, tolerant to stem borer
	Gujarat Anand Yellow Maize Hybrid 3 (GAYMH 3) (GYH-0363)	Middle Gujarat	66.5	Suitable for middle Gujarat Agro-climatic zone for rabi season, yield 66.56 q/ha, orange flint grains single cross hybrid with high $\beta$ -carotene than normal maize, medium maturing, moderately resistant against turcicum leaf blight and sorghum downey mildew diseases and resistant against common rust, stem borer.
<b>Pearl Millet</b>	AHB 1200 Fe (MH 2072 (AHB 1200) hybrid	Rajasthan, Gujarat, Haryana, Punjab, Delhi, Maharashtra, Telangana, AP and Tamil Nadu	31.7 (grain yield) 70.0 (fodder yield)	Suitable for rainfed condition of <i>kharif</i> season, biofortified [high iron (77 ppm) and zinc (39 ppm)], bold grain, maturity: 78 days, highly responsive to fertiliser, drought tolerant but in stress require protective life saving irrigation. Resistant to major disease such as downey mildew and tolerant stem borer.
	PB 1705 (MH 2008) Hybrid	Rajasthan, Gujarat, Haryana, Punjab, Delhi, Madhya Pradesh and Uttar Pradesh	36.4 (grain yield) 88 (fodder yield)	Suitable for low to medium rainfall (rainfed), low to high fertility soil during <i>kharif</i> , dual purpose hybrid, suitable for early and late sowing conditions, high iron (49 ppm) and zinc (32 ppm), maturity: 79 days, lodging tolerant, moisture stress tolerant, resistant to DM, blast, rust, smut and ergot, tolerant to shoot fly, stem borer and drought.
	HHB 299 (MH 2076)	Rajasthan, Haryana, Gujarat, Punjab, Delhi, Maharashtra, and Tamil Nadu	32.7 (grain yield) 73.0 (dry fodder yield)	Suitable for <i>kharif</i> season with high grain and dry fodder yield potential, biofortified [high iron (73 ppm) and zinc (41 ppm)], dual pupose fertilizer responsive hybrid, maturity: 81 days, resistant to major diseases such as downey mildew, smut etc., major insect pests such as shoot fly, stem borer, grey weevil, leaf roller, <i>Helcoverpa</i> etc.
	Central Pearl Millet Hybrid RHB 223 (MH 1998) (RHB 223)	Rajasthan, Gujarat and Haryana	29.6 (grain yield) 55.0 (dry fodder yield)	Maturity: 71 days, highly resistant to downey mildew, blast and resistant to smut, major insect pests such as shoot fly, stem borer and grey weevil.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Pearl Millet	GK 1116 (MH 1974) hybrid	Rajasthan	32.7 (grain yield) 70.7 (dry fodder yield)	Suitable for rainfed conditions during <i>kharif</i> season of Rajasthan state in both low and high fertility conditions, dual purpose hybrid, highly responsive to fertilizers and suitable for both early and late planting, maturity: 81 days, tolerant to downey mildew, rust, smut, ergot and stem borer.
	BHB-1202 (Bikaner Hybrid Bajra-1202) (MH 1831)	Rajasthan	17.7 (grain yield) 28.0 (dry fodder yield)	Suitable for early and late planting under rainfed conditions in <i>kharif</i> season of arid region of Rajasthan, dual purpose hybrid, maturity: 76 days, highly resistance to downy mildew, blast and major pests, tolerant to water stress, resistant to lodging.
	Pusa 1201 (MH 1849)	NCT Delhi.	28.1 (grain yield) 72.0 (dry fodder yield)	Suitable for rainfed, <i>kharif</i> season for both high and low fertility conditions, dual purpose hybrid, highly responsive to fertilizers, Maturity: 79 days, highly resistance to downy mildew, smut, rust, stem borer, leaf roller, <i>Helicoverpa</i> and grey weevil.
	Raj Bajra-1 (RBB-1)	Rajasthan	12.0-25.0 (grain yield) 350.0-700.0 (green fodder yield)	Suitable for rainfed and irrigated conditions, 9.33% crude protein in green fodder on dry matter basis, maturity: 85 days, resistant to leaf spot disease, downy mildew and general insect pests.
	MP7878 (MH2155)	Gujarat, MP, Rajasthan, UP, Haryana, Punjab and Delhi	41.8 (grain yield) 106 (dry fodder yield)	Suitable for <i>kharif</i> season, dual purpose stay green hybrid, maturity: 86 days, highly resistant to downy mildew, blast and smut.
	PA 9072 (MH 2082) (PB 1756)	Western Rajasthan, drier Parts of Gurarat and Haryana	27.0 (grain yield) 47.0 (dry fodder yield)	Dual purpose, early maturing, maturity: 75 days, resistant to downy mildew, blast, smut, ergot, shoot fly and stem borer, tolerant to moisture stress and lodging.
	PB 1720 (MH 2107)	Rajasthan, Gujarat, Haryana, Punjab, Delhi, Uttar Pradesh, Madhya Pradesh	33.4 (grain yield) DFY: 79.0	Suitable for early/ late sowing, low to medium rainfall (rainfed), low to high fertility soil conditions during <i>kharif</i> , maturity: 79-81 days, tolerant to shoot fly, stem borer, responsive to fertilizers, lodging tolerant.

# Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Pearl Millet</b>	AHB 1269Fe (MH 2185) (AHB 1269)	Gujarat, Haryana, Punjab, Delhi, Maharashtra, Telangana and Tamil Nadu.	31.6 (grain yield) 74.0 (fodder yield)	Maturity (medium): 82 days, Iron (Fe) 91 ppm, Zinc 43 ppm, resistant to stem borer and <i>Helicoverpa</i> larvae, highly resistant to downy mildew, smut and rust, highly responsive to fertilizers.
	Central Pearl Millet Variety ABV 04 (MP 552)	Maharashtra, Karnataka, Andhra Pradesh, Telangana and Tamil Nadu.	28.6 (grain yield) 58.0 (fodder yield)	Maturity (medium): 86 days, Iron (Fe) 70 ppm, Zinc 63 ppm, highly resistant to downey mildew, smut and resistant to blast, stem borer, grey weevil, <i>helicoverpa</i> , shoot fly and leaf roller.
	PROAGRO 9450 (Bayer 9450)	Uttar Pradesh	30.0-35.0 (grain yield) DFY: 110.0-140.0	Suitable for irrigated and rainfed areas of UP and high soil fertility during kharif and summer seasons in all millet growing areas, maturity 84-88 days, tolerant to lodging, downy mildew and blast diseases, high iron (71.1 ppm) and zinc (57.8 ppm) content in grain.
	Phule Mahashakti (DHBH 1211/MH 2078)	Maharashtra	29.3 (grain yield) FY: 56.0	Suitable for bajra growing areas of Maharashtra, mid-late maturity, maturity (late): 88 days, Iron (Fe) 87 ppm, Zinc 41 ppm resistant to downy mildew.
<b>Sorghum</b>	BJV 44 (SPV 2034)	Karnataka	22.0-25.0 (grain yield) 50.0-60.0 (fodder yield)	Suitable for rabi Season, it is high grain and fodder yielding variety of <i>rabi</i> sorghum, maturity: 120-123 days, it is moderately tolerant to charcoal rot, shoot fly & aphids and suitable for deep soils with adequate moisture situations.
	AKJ-1 (Flaking variety)	Karnataka	12.0-15.0 (grain yield) 40.0-45.0 (fodder yield)	Suitable for <i>rabi</i> sorghum growing areas of Karnataka, having excellent flaking quality with additional benefit of presence of significantly high polyphenols, maturity: 120-123 days, high resistance to rice weevil.
	KMJ-1 (Popping variety)	Karnataka	9.0-10.0 (grain yield) 30.0-35.0 (fodder yield)	Suitable for <i>rabi</i> sorghum growing areas of Karnataka, grain <i>rabi</i> sorghum variety suitable for popping purpose (making pops or <i>aralu</i> ) with good popping yield (75 kg per quintal of seeds),maturity: 120-125 days, higher resistance to rice weevil.
	SMJ-1 (Hurda variety)	Karnataka	7.5-8.5 (fresh grains) 4.5-5.5 (dried grains) 7.0-8.0 (matured)	Suitable for Rabi sorghum growing areas of Karnataka, grain <i>rabi</i> sorghum variety suitable for making hurda/seethani/belasi (tender roasted grains) of good quality very soft sweet, with additional benefit of presence of high micronutrients (iron & zinc) and high polyphenols,maturity: 120-125 days.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Sorghum	SR-2917 (GNJ-1)	Gujarat	34.0	Suitable for <i>kharif</i> sorghum growing area of Gujarat, maturity: 114 days, resistant to grain mold with less incidence of ergot disease and stem borer.
	CSH 36F (Dairy Green) (SPH 1752) DFSH 109) Hybrid	Punjab, Haryana, Uttar Pradesh, Uttarakhand, Rajasthan and Gujarat	GFY: 642.0 DFY: 169.0	Suitable for irrigated, medium to high soil fertility condition under normal sowing, protein 11.4q/ha, digestible dry matter 77.5q/ha, maturity: 115-120 days, tolerant to lodging and fertilizer responsive, resistant to grey leaf spot, tolerant to shoot fly dead hearts and stem borer dead hearts.
	CSH 38 (HTJH 3301) (SPH 1779) Hybrid	Tamil Nadu, Gujarat, Telangana, Maharashtra, Karnataka, AP, MP, Rajasthan	45.5 (grain yield) FY: 139.8	Suitable for rainfed <i>kharif</i> with protective irrigation, grain sorghum hybrid, maturity: 106 days, shoot fly and grain mold tolerant, non-lodging.
	CSH 37 (HTJH 3208) (SPH 1778) Hybrid	Tamil Nadu, Gujarat, Telangana, Maharashtra, Karnataka, AP, MP, Rajasthan	46.8 (grain yield) FY: 145.3	Suitable for rainfed <i>kharif</i> with protective irrigation, grain sorghum hybrid, maturity: 104-114 days, tolerant to downy mildew and grain mold under natural conditions, non-lodging, fertilizer responsive.
	K-12	Tamil Nadu	31.0	Suitable for rainfed situation and also perform well during summer irrigated condition, maturity: 95 days, non-lodging, non shattering
	SPV-2217	Karnataka	15.0-18.0 (grain yield) FY: 65.0-70.0	Suitable for <i>rabi</i> season for deep soils of Karnataka, bold and round grains with lustrous bright colour, stay green, maturity: 124 days, tolerant to lodging and charcoal rot disease.
	CSV 34 (SPV 2307)	Maharashtra, Karnataka, Madhya Pradesh and Gujarat	45.0 (grain yield) 129.0 (stover yield)	Suitable for timely sown rainfed conditions of <i>kharif</i> season, grain protein 10.39%; starch 62.54%, maturity: 110-112 days, tolerant to grain mold, <i>Fusarium</i> and zonate leaf spot, tolerant to shoot fly, dead aphid hearts stem borer, non-lodging, non-shattering
	Jaicar Heera (CSV 36/SPV 2301)	Gujarat, Rajasthan, Andhra Pradesh and Tamil Nadu.	33.0 (grain yield) FY: 122.0	Maturity: 106-110 days, moderately tolerant to major diseases like grain molds, anthracnose, leaf blight and zonate leaf spot, tolerant to downy mildew, shoot fly and stem borer.
	Jaicar Sona (CSV 39/SPV 2358)	Tamil Nadu, Telangana, Andhra Pradesh, Rajasthan and Gujarat.	34.0 (grain yield) FY: 115.0	Maturity: 102-110 days, moderately tolerant to major diseases like grain molds, anthracnose, leaf blight and zonate leaf spot, tolerant to downy mildew, shoot fly and stem borer.
	Jaicar Gold (CSH 41)(SPH 1820)	Madhya Pradesh, Rajasthan, Gujarat, Maharashtra, Karnataka, Andhra Pradesh, Telangana and Tamil Nadu.	47.3	Suitable for rainfed <i>kharif</i> and irrigated summer, medium to highly fertile soil, timely sowing, good agronomic management conditions, maturity: 106-110 days, tolerance to foliar diseases, shoot fly, stem borer and mites, resistant to midge.

# Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Sorghum</b>	Gujarat Jowar 43 (GJ 43) (DS 127)	Gujarat	27.5 (grain yield) DFY: 143.8	Suitable for edapho-climatic condition in sorghum growing areas of Gujarat, maturity: 113-115 days, moderately resistant to ergot and grain mold disease.
<b>Finger Millet</b>	GPU-66	Karnataka	35.0-40.0	Suitable for late <i>kharif</i> season, green plant parts with narrow leaves, maturity: 112-115 days, resistant to neck and finger blast.
	Vakula (PPR 2700)	Karnataka	25.0-30.0	Suitable for late kharif season, semi dwarf plants, maturity: 105-110 days, resistant to leaf blast and tolerant to drought
	DHFM-78-3	Karnataka	30.0-35.0	Suitable for cultivation in Agro-climatic Zone – 3 and 8 of Karnataka state, suitable for contingency planting, maturity: 115-120 days, resistant to finger and neck blast.
	VL Mandua 379 (VL 379)	Uttarakhand, Bihar, Jharkhand and Madhya Pradesh	31.0-35.0	Suitable for rainfed <i>kharif</i> ecology, fertilizer responsive, maturity: 107-109 days, resistance to neck and finger blast, tolerant to ear head caterpillar incidence
	Chhattisgarh Ragi-2 (BR-36)	Chhattisgarh	34.0-36.0	Withstand better under water stress conditions, responsive to nitrogen fertilizer, maturity: 115-118 days, non lodging, tolerant to stem borer and other major pests.
	VL Mandua 380	Uttarakhand	23.7	Suitable for Uttarakhand hills under rainfed kharif ecology, maturity 116-118 days, higher calcium content (322.5 mg/100g), moderately resistant to neck and finger blast, no major pest infestation.
<b>Foxtail millet</b>	Surya Nandi (SiA-3088)	Karnataka	20.0-25.0	Suitable for all foxtail millet growing areas of the country, suitable for double cropping, maturity: 70-75 days, non-lodging
	DHFT-109-3	Karnataka	26.0-29.0	Suitable for cultivation in agro-climatic Zone-3 and 8 of Karnataka state, suitable for contingency planting, maturity: 86-88 days.
<b>Little Millet</b>	DHML-36-3	Karnataka	14.0-16.0	Suitable for Karnataka, late maturity (95-100 days).
	GNV-3	Gujarat	28.0-29.0	Suitable for dry land/hilly/tribal region, bold seeded multi-tillering little millet variety, good nutritional properties particularly high minerals, crude fiber, calcium, phosphorus, iron and magnesium, maturity: 110-115 days, non-lodging, resistant to leaf, neck and panicle blast disease as well as to grain smut and sheath blight.
	DHLM-36-3 (DHLMV -36-3)	Andhra Pradesh, Jharkhand, Tamil Nadu and Odisha.	11.0	Suitable for rainfed condition in kharif season, maturity: 97 days.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Little Millet</b>	DHLM-14-1 (DHLMV-14-1)	Tamil Nadu, Karnataka, Gujarat, Maharashtra and Odisha.	8.8 (grain yield) 65.3 (fodder yield)	Suitable for kharif and rainfed situation, maturity: average of 94-102 days.
<b>Proso millet</b>	DHPM-2769	Karnataka	23.0-25.0	Suitable for cultivation in agro-climatic Zone-3 and 8 of Karnataka for contingency planting, maturity: 70-72 days.
	ATL 1 (TNPm 230)	Tamil Nadu, Bihar, and Karnataka	21.5	Resistant to rust, brown spot, sheath blight and grains smut, maturity: 70-75 days.
<b>Barnyard Millet</b>	MDU-1	Tamil Nadu	15.0-17.0	Suitable for <i>kharif</i> , <i>rabi</i> and summer seasons, maturity: 95-100 days, non-shattering.
	DHBM-93-2	Karnataka	25.0-27.0	Suitable for cultivation in agro-climatic Zone-3 and 8 of Karnataka, suitable for contingency planting, maturity: 86-88 days.
	DHBM-93-3 (DHB-93-3)	Andhra Pradesh, Bihar, Karnataka, Madhya Pradesh and Tamil Nadu.	23.2 (grain) FY: 6.3	Suitable for kharif rainfed condition, maturity: 88-100 days, resistance to shoot fly.
	DHBM-23-3 (DHB-23-3)	Andhra Pradesh, Karnataka, Madhya Pradesh and Tamil Nadu.	23.2 (grain yield) FY: 68.6	Suitable for kharif rainfed condition, maturity: 88-100 days, resistance to shoot fly.
<b>OILSEEDS</b>				
<b>Indian Mustard/ Raya</b>	RH 725	Jammu, Punjab, Haryana, Delhi and Northern Rajasthan	20.0	Suitable for timely sowing and rainfed conditions in <i>rabi</i> season, maturity: 141 days, moderately resistant to <i>Alternaria</i> leaf blight, white rust and aphid infestation.
	CS 60 (CS2800-1-2-3-5-1)	Haryana, Punjab, Uttar Pradesh and Rajasthan	18.0	Suitable for timely sown, salt-affected soil and water conditions of <i>rabi</i> season, maturity: 134 days, resistant to <i>Alternaria</i> blight, WR, PM, DM, stag head and SR.
	RSPR-69 (MCN-04-35)	Jammu	19.9	Suitable for irrigated and rainfed area, timely sown, high fertility sub-tropical area of Jammu Division in <i>rabi</i> season, 39.4 % oil content, matures in 135-145 days, Resistant to white rust and moderately resistant to <i>Alternaria</i> blight and major pests.

## Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Toria</b>	Tapeshwari (TK 06-1)	Uttar Pradesh	13.5-14.0	Suitable for rainfed, irrigated areas and recommended for extra early sowing i.e. mid September, maturity: 90-95 days, tolerant to drought and fog, being extra early maturity, it escapes diseases especially <i>Alternaria</i> blight, aphid and white rust.
	Tripura toria 1 (TRC T-1-1-5-1/ IC 615573)	Tripura	8.0-9.0	Suitable for rainfed upland and lowland after kharif, perform well under residual moisture after kharif rice, also as utera crop, maturity: 86 days, resistant to lodging, exhibits very low incidence of white rust, <i>Sclerotinia</i> rot, bacterial stem rot and aphid.
	RSPT-6 (TCN 13-9)	Jammu	11.3	Suitable for irrigated and rainfed area, low fertility, and early sown conditions, rabi season, 42.6% oil content, maturity 85-90 days, moderately resistant to white rust, downy mildew, <i>Alternaria</i> blight, aphid and major pests.
<b>Brown Sarson</b>	HPBS-1	Himachal Pradesh	10.0-12.0	Suitable for rainfed farming in late September -October in low and mid hills of Himachal Pradesh, maturity: 147 days, moderately resistant to white rust.
<b>Groundnut</b>	GJG 33 (Gujarat Junagadh Groundnut 33)	Andhra Pradesh, Telangana and Tamil Nadu	20.4	Suitable for timely sown, rabi-summer conditions, high oil (51%), maturity: 113 days, tolerant to stem rot, collar rot, dry root rot; foliar fungal (rust, early leaf spot) and peanut bud necrosis diseases (PBND). Tolerant to <i>Helicoverpa</i> and <i>Spodoptera</i> leaf damage.
	ICGV 93468 (Avtar)	Uttar Pradesh	16.9	Suitable for irrigated, summer season, high oil (51%), maturity: 85-95 days, tolerant to PBND and jassids
	Nitya Haritha (TCGS 1157)	Zone III (Maharashtra and Madhya Pradesh)	18.0	Suitable for rainfed/ supplementary irrigated kharif conditions, timely sown, maturity: 105-110 days, tolerant to rust, late leaf spot and PBND.
	DH 232	Karnataka	14.8-23.4	Suitable for <i>kharif</i> season, oil content (46.9%), maturity: 105-110 days, tolerant to rust, and late leaf spot diseases.
	DH 245	Karnataka	14.8-23.4	Suitable for <i>kharif</i> season, oil content (45.9%), maturity: 105-108 days, tolerant to rust, late leaf spot diseases.
	ICGV 93468 (Avtar)	Uttar Pradesh	24.0 (summer) 22.5 (kharif)	Suitable for rainfed/ summer season and late sowing in kharif season, oil content 51.10%; maturity: 95 days, tolerant to bud necrosis disease, fungal diseases, jassids and pod borer.
	TMV 14	Tamil Nadu	21.2 (kharif) 22.8 (Rabi)	Suitable for both kharif and rabi season, oil content 48.0%, moderately resistance to late leaf spot and rust disease, tolerance against <i>Spodoptera litura</i> , thrips, <i>Heliathis armigera</i> and leaf minor.

Crop	Variety	Recommended Zone	Avg. Yield (q/ha)	Salient features
<b>Groundnut</b>	Phule Chaitanya (Central-KDG 160)	Andhra Pradesh, Tamil Nadu and Telangana.	34.0	Suitable for rabi summer, moderately resistant to stem rot and late leaf spot diseases, oil content 51.6%, maturity: 116 days.
	Konkan Bhuratna (RTNG-29)	Maharashtra	25.0-30.0	oil content 50.0%, maturity 115-120 days, resistant to leaf's spot, rust, <i>Peanut</i> bud necrosis disease, alternaria leaf blight, <i>thrips</i> , <i>jassids</i> , leaf miner and defoliator insect and pests.
	Gujarat Groundnut HPS 2 (GG HPS 2)	Gujarat	28.3 (pods) 19.4 (kernels)	Suitable for cultivation during kharif rainfed season, oil content 48.8%, maturity 118-129 days, resistant to stem rot and collar rot, rust.
	PDKVG-335 (AK 335)	Maharashtra	25.7 (pods) 18.3 (kernels)	Suitable for rainfed ecology, oil content 48%; maturity: 110-113 days, moderately resistant to Tikka, collar rot, stem rot, jassids, thrips and aphids.
<b>Soybean</b>	Jawahar Soybean 20-98 (JS 20-98)	MP, Bundelkhand region of UP, Rajasthan, Gujarat, Marathwad & Vidarbha region of Maharashtra.	20.9	Suitable for medium to high rainfall normal sowing conditions, maturity: 99 days, resistant to charcoal rot and YMV disease.
	Chhattisgarh Soybean-1 (CG SOYA-1)	Chhattisgarh	21.3	Suitable for soybean growing areas of Chhattisgarh, maturity: 104 days, resistant to Indian bud blight, <i>Myrothecium</i> leaf spot and bacterial pustule disease.
	Kota Soya-1 (RKS 113)	Assam, WB, Jharkhand, Chhattisgarh and North Eastern States	18.8	Suitable for rainfed condition under assured rainfall in <i>kharif</i> season, maturity: 102 days, resistant to YMV disease, good germinability and tolerant to pod shattering.
	DSb. 23 (DSb 23-2)	Karnataka, TN, Telangana, Andhra Pradesh, and Southern Maharashtra	24.4	Suitable for rainfed and irrigated conditions, maturity: 95 days, highly resistant to soybean rust caused.
	KS 103	Southern Maharashtra, Andhra Pradesh, Karnataka, Telangana, Tamil Nadu	25.4	Suitable for irrigated and rainfed <i>kharif</i> season, maturity: 92 days, resistance to field rust and pest complex.
	MAUS-612	Maharashtra and Southern India.	25.3	Suitable for assured rainfall of 700 to 1000 mm with medium to heavy soil, maturity: 91 days, moderately resistant to charcoal rot.
	Basara (ASb-22)	Telangana	26.6	Suitable for rainfed <i>kharif</i> season, maturity: 105-115 days.
	NRC 127	Madhya Pradesh, Rajasthan, Bundelkhand region of Uttar Pradesh, Gujarat, Marathwada and Vidarbha region of Maharashtra	18.1	Suitable for rainfed, normal sowing time, maturity: 102 days, shown promising resistance against pod borer, Lepidopteran defoliators and pest complex.

# Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Soybean</b>	KDS 726 (Phule Sangam)	Maharashtra, Karnataka, Telangana, AP and TN	24.4	Maturity: 96-97 days, resistant to purple seed stain and tolerant to pest complex.
	VL Soya 89 (VLS 89)	Himachal Pradesh and Uttarakhand.	23.2	Suitable for timely sown rainfed conditions of northern hill zone, maturity: 116 days, moderate resistance to frog eye leaf spot and pod blight diseases, promising against bugs and leaf hoppers.
<b>Linseed</b>	Jawahar Linseed Sagar-95 (JLS-95) (SLS-95)	Bundelkhand part of UP, Rajasthan, MP and Central Peninsular India	10.1	Suitable for rainfed farming, maturity: 113-133 days, resistant to rust and moderately resistant to wilt.
	Utera Alsí (RLC-143)	Chhattisgarh, Odisha, MP, Bihar, Jharkhand and Assam	5.7	Suitable for moisture stress <i>rabi</i> season, i.e., rice based relay cropping ecosystem, maturity: 118 days, moderately resistant to linseed bud fly.
	Sabour Tisi-1 (BAUP-101)	Uttar Pradesh excluding Bundelkhand, Bihar, Jharkhand, West Bengal and Assam	6.8	Suitable for timely sown under utera/rainfed/high/low fertility condition during <i>rabi</i> season, maturity: 120-122 days, moderately resistant to <i>Alternaria</i> blight and budfly.
	Varsha Alsí (RLC-148)	Rajasthan, MP, Bundelkhand region of UP, Odisha, Maharashtra, Chhattisgarh and Karnataka	10.3	Suitable for rainfed cultivation, maturity: 114 days, moderately resistant to powdery mildew and bud fly.
	Him Pám Alsí-2 (KL-263)	Himachal Pradesh, Haryana and J&K	16.8	Suitable for cultivation in irrigated areas, resistant to rust, moderately resistant to powdery mildew and bud fly.
	Utera Alsí	UP, Bihar, Jharkhand, Assam, Odisha, Chhattisgarh and MP	570.0	Suitable for rice based relay cropping system, maturity: 115-122 days.
	Rajan (LCK 1009)	Uttar Pradesh	11.1	Suitable for timely sown irrigated condition, maturity 130-135 days, moderately resistant to bud fly and alternaria rust, resistant to rust, brown & medium bold seeded.
<b>Sesame</b>	VRI 3	Tamil Nadu	8.5-9.5	Suitable for irrigated tracts of <i>rabi</i> and summer seasons, maturity: 75-80 days, moderately resistant to <i>Macrophomina</i> disease, capsule borer pest in all the stages of the crop.
	Tripura Siping Borok (TRC Til 1-8-1-1)	Tripura	13.0-14.0	Suitable for both summer as well as late kharif, maturity: 83 days, tolerant to <i>Phytophthora</i> blight.
	Suprava (CUMS-17)	WB, Odisha, Maharashtra, Chhattisgarh, Telangana, TN and Karnataka	9.0-12.0	Suitable for irrigated, summer crop, superior performance under timely, early and late sown conditions with very low reductions in seed yield and other agronomic parameters, oil content 48-50%, maturity: 88-92 days, highly resistant to diseases like root rot, phyllody and powdery mildew, suitable for high heat and drought situation.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Sesame</b>	Gujarat Til 6 (G.Til 6) (AT 332)	Gujarat	10.1	Suitable for kharif rainfed conditions of Gujarat state, summer irrigated condition of Saurashtra, oil content 49.68%, white seeds, maturity 87 days, resistant to <i>Macrophomina</i> stem, root rot, powdery mildew, phyllody, leaf curl as well as <i>cercospora</i> and <i>alternaria</i> leaf spot diseases.
<b>Sunflower</b>	DSFH-3 Hybrid	Karnataka	18.0-20.0	Suitable for <i>rabi</i> season, seed has a high oil content of 38-39%, maturity: 95-98 days.
	LSFH-171 Hybrid	Maharashtra, Karnataka, TN, AP, Telangana, Odisha, Bihar and West Bengal	18.0-20.0	This hybrid is resistant to downy mildew, maturity: 95-100 days
	COH 3	Tamil Nadu	16.1 (kharif) 18.2 (rabi)	Suitable for both <i>kharif</i> and <i>rabi</i> , maturity: 90-95 days
<b>Safflower</b>	NARI-96 hybrid	Maharashtra, Telangana, Andhra Pradesh, Madhya Pradesh, Chhattisgarh and Rajasthan.	20.2 6.7 (oil yield)	Suitable for early and timely sowing irrigated conditions, maturity: 116-165 days, non-lodging, non-shattering, and fertilizer responsive, tolerant to safflower wilt ( <i>Fusarium oxysporum</i> ) and moderately tolerant to aphids.
	DSH-185	Safflower growing areas of India for both rainfed and irrigated situations	21.0 (irrigated) 14.3 (rainfed)	Suitable for rainfed and irrigated ecology, maturity: 121 days (rainfed), 139 days (irrigated), non-shattering, spiny and fertilizer responsive, resistant to wilt and moderately resistant to <i>Fusarium</i> wilt and aphid infestation.
	Purna (PBNS – 86)	Maharashtra	18.0-20.0 (irrigated) 10.0-12.0 (rainfed)	Suitable for both rainfed and irrigated condition, oil content 30%, maturity: 135 days, moderately tolerant to wilt, <i>Alternaria</i> and aphids.
<b>Castor</b>	GCH8 (SHB 896)	All castor growing states of the Country	17.1 (oil yield) Seed yield: 18.9 (rainfed) 35.8 (irrigated)	Suitable for irrigated as well as rainfed conditions, oil content 48.6%, maturity: 96-126 days, resistant to <i>Fusarium</i> wilt and root rot.
	Gujarat Castor Hybrid-9 (GCH-9) (JHB-1018)	Gujarat	37.8	This variety contains high ricinoleic acid (90.23%), maturity: 180-210 days, resistance to <i>Fusarium</i> wilt and <i>Macrophomina</i> root rot.
	Jawahar Castor-24 (JC-24)	Madhya Pradesh	27.7	Suitable for rainfed and irrigated condition, kharif/early rabi, maturity 95-110 days, tolerant to wilt and root rot, medium bold seeded.

# Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Castor</b>	Jawahar Castor-4 (JC-4)	Madhya Pradesh	-	Suitable for rainfed and irrigated condition, kharif /early rabi, bold seed with oil content 46.5%, maturity 100-130 days, tolerant to wilt and root rot.
<b>PULSES</b>				
<b>Chickpea</b>	Pusa 3043 (BG 3043)	Bihar, Jharkhand, West Bengal, Assam and Eastern Uttar Pradesh	16.0	Suitable for timely sown, <i>rabi</i> season, irrigated condition in the North East Plain Zone, grain protein content 21.1%, maturity: 130 days, capable of escaping terminal drought and heat stresses, moderately resistant to <i>Fusarium</i> wilt and tolerant to dry root rot, collar rot, stunt, <i>Ascochyta</i> blight and <i>Botrytis</i> grey mold.
	Awadh (GNG-2207)	Assam, WB, Jharkhand, Bihar, Eastern UP, Manipur	16.0-17.0	Suitable for timely sown irrigated conditions of rabi season, maturity: 99-145 days, moderately resistant to <i>Fusarium</i> wilt.
	Phule Vikrant (Phule G 0405)	Maharashtra, West Madhya Pradesh, Gujarat and South Rajasthan	20.0-21.0	Suitable for optimum sown irrigated condition, maturity: 110 days, moderately resistant to <i>Fusarium</i> wilt.
	BGD 111-1	Karnataka	16.0-17.0	Desi type, maturity: 95 days, moderately resistant to <i>Fusarium</i> wilt and tolerant to dry root rot.
	Phule Vikrant (Phule G 0405)	Maharashtra, West Madhya Pradesh, Gujarat and Rajasthan	41.6	Suitable for optimum sown irrigated condition, maturity: 110 days, resistant to <i>fusarium</i> wilt.
<b>Mungbean</b>	Arun (KM 2328)	Uttar Pradesh	8.0–11.0	Suitable for summer season, timely sown condition, protein 25.2%., maturity: 60-62 days, resistant against MYMV, <i>Cercospora</i> leaf spot, WB, MB and anthracnose.
	Pusa 1431	Delhi and adjoining areas of Haryana, Rajasthan and Uttar Pradesh	13.0-14.0	Suitable for early plantings after harvest of mustard and potato in spring season, maturity: 56-66 days, resistant against MYMV, <i>Cercospora</i> leaf spots (CLS), anthracnose, web blight and urdbean leaf crinkles (ULCV), resistant to bruchids.
	Gujarat Anand Mung Bean-5 (GAM-5)	Gujarat	8.1	Suitable for Gujarat, summer season under irrigated condition, bold seeded, maturity: 60-65 days, highly resistant to Yellow Mosaic Virus (YMV).
	Tripura Moong - 1	Tripura	10.0-11.0	Suitable for <i>kharif</i> season, early maturing, medium bold seed, moderately resistant to MYMV, CLS, <i>Anthracnose</i> and resistant to powdery mildew.
	GM-6 (NMK-15-12)	Gujarat	950.0-1050.0	Suitable for <i>kharif</i> and summer season cultivation in Gujarat state, early maturing, highly resistant to MYMV, resistant to <i>Anthracnose</i> , powdery mildew and whitefly.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Mungbean</b>	Varsha (IPM 2K 14-9)	Uttar Pradesh	10.0-11.0	Suitable for <i>kharif</i> season, maturity: 70-75 days, resistant to MYMV and CLS.
	Kanika (IPM 302-2)	Uttar Pradesh	10.0-12.0	Suitable for <i>kharif</i> and spring seasons, maturity: 70 days, highly resistant to MYMV and CLS.
	GM-7 (NMK-15-08)	Gujarat	10.6	Medium maturity (75-80 days), medium seed size (4-5 g), indeterminate growth habit, better market and cooking quality, MYMV resistance.
<b>Urdbean/ Blackgram</b>	Mukundra Urd-2 (KPU 405)	Rajasthan, Haryana, Punjab, plains of HP and Uttarakhand.	9.4	Suitable for spring season in NWPZ, resistant to MYMV.
	ADT 6	Tamil Nadu	7.4	Suitable for rice fallow conditions (Dec. – Jan.), maturity: 65-70 days, moderately resistant to Leaf Crinkle virus, powdery mildew and less pod borer damage.
	Black gram KKM 1 (COBG 643/VBN 3)	Tamil Nadu	6.0	Suitable for irrigated ( <i>kharif</i> ) and rice fallow conditions, maturity: 65-70 days, tolerant to root knot nematode, moderately resistant to YMV.
	VBN 8 (VBG 09-005)	Andhra Pradesh, Tamil Nadu, Karnataka and Odisha	13.2	Suitable for summer, irrigated condition, bold seeded with 21.9% protein and 7.5 % arabinose, suitable for Idli & Vada preparation, maturity: 65-75 days, resistant to yellow mosaic virus, leaf crinkle virus, leaf curl virus, stem necrosis; free from powdery mildew and <i>Cercospora</i> leaf spot and moderately resistant to root rot.
	Tripura Maskalai	Tripura	11.0-12.0	Suitable for <i>kharif</i> season, maturity: 75-80 days, moderately resistant to MYMV, CLS, Anthracnose and resistant to powdery mildew.
	IPU 11-02	Uttar Pradesh	10.0-12.0	Suitable for <i>kharif</i> season in entire UP, protein content 26.42%, maturity: 80 days (early), tolerant to drought, multiple disease resistant (yellow mosaic virus, <i>cercospora</i> , leaf spot, anthracnose, leaf crinkle) and powdery mildew, tolerant to major-pest under field conditions.
<b>Pigeonpea /Red gram</b>	GRG 811 (Dharamaraj)	Karnataka	-	Suitable for deep black cotton soil, maturity: 170 days, drought resistant, resistant to wilt and sterility mosaic disease.
	CO 8	Tamil Nadu	13.1	Suitable for rainfed/irrigated condition, maturity: 170-180 days, resistant to sterility mosaic disease and root rot, moderately resistant to <i>Helicoverpa</i> and Maruca.
	GNP-2 (BP-06-33)	Gujarat	12.5	Suitable for <i>kharif</i> in South and North Gujarat, this is the first dual purpose (grain and vegetable) variety of the Gujarat state, medium maturity, moderately tolerant for pod fly, pod borer and moderately resistant to wilt and SMD.

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Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Pigeon pea/Red gram</b>	Pusa Arhar 16 (PADT 16)	NCR Delhi	20.2	Suitable for sole cropping, irrigated condition, maturity: 120 days, resistant to lodging, disease incidence not experienced, suitable for growing of mustard/wheat/potato after its harvest.
	Gujarat Tur-103 (GT 103)	Gujarat	15.0	Seeds of the variety are bold and attractive, medium maturity, resistant to wilt and insect pest.
	BRG 3	Karnataka	18.0-20.0	This variety is resistant to wilt and SMD diseases, maturity: 160-170 days.
	Rajendra Arhar-1 (DA-2012-1)	Bihar	18.7	Maturity: 146 days, resistant to sterility mosaic.
	GT-104 (NPMK-15-05)	Gujarat	18.9	Maturity (medium): 160-170 days, resistant to sterility mosaic disease, spreading plant type, red flower and dark green foliage, pods are green with light purple streaks, good market and cooking quality, resistant to sterility mosaic disease.
<b>Lentil</b>	L 4727	Madhya Pradesh, Maharashtra, Chhattisgarh and parts of Rajasthan	11.4-14.4	Suitable for <i>rabi</i> season, rainfed conditions, protein content 26.47%, maturity: 93-120 days, moderately resistant to wilt and exhibits lower pest incidence.
	Kota Masoor 2(RKL 14-20)	Madhya Pradesh, Maharashtra, Chhattisgarh and parts of Rajasthan	12.1	Suitable for rainfed, normal sown, <i>rabi</i> season cultivation, maturity: 100 days, tolerant to drought and high temperature, moderately resistant to wilt and very less incidence of pod borer and aphids.
	IPL 220	Eastern Uttar Pradesh, Bihar, Assam and West Bengal	13.7	Suitable for rainfed, <i>rabi</i> season, biofortified variety having high concentration of Fe, Zn and Se, Maturity: 121 days, resistant to major diseases including rust, <i>Fusarium</i> wilt and <i>Stemphylium</i> blight.
	IPL-315	Uttar Pradesh	12.3	Suitable for normal sown rainfed conditions in <i>rabi</i> season of lentil growing areas of UP, maturity: 129-138 days, resistant to rust and tolerant to wilt
	IPL 321	Uttar Pradesh	14.0	Suitable for normal sown rainfed conditions in <i>rabi</i> season of lentil growing areas of UP, protein content 26.3%, maturity: 123-138 days, resistant to rust and wilt, tolerant to pod borer and aphid.
<b>Field Pea</b>	Pant Pea 250	Punjab, Haryana, Northern Rajasthan, Western Uttar Pradesh and Uttarakhand	16.8	Suitable for both rainfed and irrigated situation of <i>rabi</i> season, protein 29.84%, maturity: 124 days, resistant against powdery mildew and moderately resistant to rust, <i>Ascochyta</i> blight and root rot diseases, tolerant to pod borer.
	Pant Pea 243	Madhya Pradesh, Chhattisgarh, Maharashtra and parts of Rajasthan	19.4	Suitable for both rainfed and irrigated situation of <i>rabi</i> season, protein 27.33%, maturity: 109 days, resistant to powdery mildew and moderately resistant to rust, <i>Ascochyta</i> blight and root rot diseases, tolerant to pod borer.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Field Pea	Central Field pea IPFD 2014-2	Madhya Pradesh, Chhattisgarh, Maharashtra and parts of Rajasthan	22.7	Suitable for both rainfed and irrigated situation of <i>rabi</i> season, maturity: 102 days, resistant to powdery mildew and moderately resistant to pod borer, aphid and leaf miner.
	TRCP - 9	Tripura and other states of northern hilly zone	17.0-18.0	Suitable for both rainfed and irrigated situation of <i>rabi</i> , protein content: 20.89%, maturity: 93-95 days, multiple disease resistance to powdery mildew and rust, good tolerance to pod borer and stem fly.
	IPFD 9-2	Uttar Pradesh	38.6	Suitable for irrigated as well as rainfed conditions during <i>rabi</i> season, maturity 122-139 days, resistant to powdery mildew and tolerant to rust disease.
Cowpea	Karan Chanwla 1 (CPD 119)	Rajasthan	7.9	Suitable for rainfed/irrigated condition, maturity: 70 days, tolerant to moisture stress, non-shattering, resistant to moderately resistant against mosaic, necrosis, root rot and CLS, low incidence of pod borer, aphids and leaf hopper.
	GC 6 (GC 521)	Gujarat	10.7	Suitable for summer cowpea growing area of North Gujarat, early maturity, lesser infestation for root rot, YMV, leaf curl, leaf hopper and whitefly etc.
	TC - 901	Gujarat, Rajasthan, MP, WB, Maharashtra and Uttarakhand	10.2-13.5	Suitable for summer season under timely sown condition with minimal irrigation, high fodder yield (49.54 q/ha), maturity: 69-75 days, resistant to whitefly and tolerant to spotted pod borer.
	KBC - 9	AP, Karnataka, Kerala, TN and some part of the Odisha	12.0-13.5	Suitable for rainfed/irrigated condition, suitable for <i>in-situ</i> green manure/fodder after harvest, maturity: 80-85 days, resistant to dry root rot and collar rot, moderately resistant to yellow mosaic virus.
	VBN 3 (VCP 0 9-013)	Tamil Nadu	10.1 (rainfed condition)	Contains 25.22% protein, maturity: 75 - 80 days, resistant to Bean Common Mosaic Virus, rust and anthracnose diseases, pod borers <i>viz.</i> , <i>Maruca vitrata</i> , <i>H. armigera</i> and Pod bug.
Rajmash/ French bean	Kota Rajmash 1 (RKR 1033)	Gujarat, Maharashtra, and Southern Rajasthan	16.7	Suitable for <i>rabi</i> season in irrigated and high fertility condition, maturity: 101 days, lodging resistant, non-shattering and responsive to fertilizer and irrigation, resistant to angular leaf spot and <i>Anthracnose</i> and tolerance to wilt, BCMV and <i>Alternaria</i> leaf spot, less incidence of aphids, whitefly and pod borer.
Moth bean	RMO-2251 (MARUDHAR) RMO-225-1-6-3)	Rajasthan, Haryana, Gujrat, Punjab	5.0-6.0	In this variety, fodder remains green up to maturity, maturity: 63-67 days, good resistance against sucking pests like jassid and white fly, average incidence of YMV and moderately resistant to leaf crinkle virus in field condition.

# Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Indian bean</b>	GNIB-22 (NIBD-14-01)	Gujarat	43.0-50.0	Suitable for late <i>kharif</i> to late <i>rabi</i> season cultivation in south Gujarat, extra early maturity, suitable as intercrop in sugarcane, pigeonpea, highly resistant to MYMV and <i>Anthracnose</i> , moderately resistant to aphid and pod borer.
	Gujarat Junagadh Indian bean-11 (JIB (V)-16)	Gujarat	95.0-111.0	Suitable for cultivation during late Kharif in Saurashtra and middle Gujarat, maturity: 149 days (medium), tolerant to leaf spot and leaf blight disease, moderately resistant to mosaic virus.
<b>Cluster bean</b>	Karan Guar 1 (RGr-12-1)	Rajasthan	10.5	Suitable for <i>kharif</i> season, maturity: 87 days, drought tolerant, lodging and shattering resistant, moderately resistant to bacterial blight, <i>Alternaria</i> blight, <i>Alternaria</i> leaf spot and root rot, minimum incidence of jassids/leaf fly observed.

## COMMERCIAL CROPS

<b>Cotton</b>	Gujarat Anand Deshi Cotton-2 (GADC-2)	Gujarat	16.4	Suitable for desi cotton growing areas of north-west agro-climatic zone V and Bhal & Coastal Zone VIII, it has recorded 45.4 per cent ginning out turn, 24.2 mm 2.5 % span length, 4.88 micronaire value and 19.3 g/tex tenacity (ICC mode).
	Cotton CO 15 (TCH 1705)	Tamil Nadu, Andhra Pradesh and Karnataka under irrigated condition	28.0	Suitable for winter irrigated ecology, High Density Planting System, maturity: 150 days, moderately resistance to jassids and <i>Alternaria</i> leaf spot, tolerant to leaf hopper.
	BGDS 1063 (IC No.624101) UASR-COT-I	Gujarat, Maharashtra, Odisha, MP, AP, Telangana, Karnataka, TN	22.7	Suitable for irrigated (South Zone) and rainfed conditions (Central Zone), maturity: 165-170 days, moderately resistant to <i>Alternaria</i> leaf spot, rust diseases, moderately tolerant to leaf hoppers.
	SVPR 6 (TSH 04/115)	Andhra Pradesh, Telangana, Karnataka and Tamil Nadu	25.3	Suitable for irrigated areas of medium to high fertile soil of south zone states, maturity: 150-155 days, moderately resistant to bacterial leaf blight and <i>Alternaria</i> leaf spot, moderately resistant to leaf hopper and white fly.
	Nirmal-433 (NACH-433) hybrid	Maharashtra, Madhya Pradesh, Odisha and Gujarat	22.0-30.0	Suitable for desi cotton growing area of Central Zone under rainfed/irrigated condition, suitable for timely sown rainfed conditions, maturity: 160-165 days, non-lodging, drought tolerant, highly tolerant to bacterial leaf blight, <i>Alternaria</i> leaf spot/blight, grey mildew, <i>Myrothecium</i> leaf spot and leaf blight, highly tolerant to jassids and moderately tolerant to bollworm.
	Cotton CO 16 (TCH 1777)	Gujarat, Maharashtra and Madhya Pradesh	20.3	Suitable for winter irrigated ecology of central zone, maturity: 150 days, moderately tolerant to bacterial blight, grey mildew and leaf hopper.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Cotton	Raj Vijay Kapas 67 (RVK 67) IH 67 (HR)	Madhya Pradesh	16.1	Suitable for irrigated <i>rabi</i> , maturity: 150 days, tolerant to jassids, aphids, bollworms; drought tolerant.
	Suchitra (Central Cotton CCH 12-2)	Gujarat, Maharashtra, MP, Odisha	17.6	Suitable for irrigated conditions during <i>kharif</i> season, maturity: 150-160 days, moderately tolerant to jassids
	Subiksha (CCH 4474)	AP, Karnataka and Tamil Nadu	15.4 (normal spacing) 37.4 (closer spacing)	Suitable for irrigated tracts during <i>kharif</i> season under closer spacing, maturity: 150 days, resistant to BLB and rust, tolerant to jassids and whitefly.
	Phule Suman (RHH-1007)	Maharashtra, Madhya Pradesh and Gujarat	23.0	Suitable for irrigated, timely sown condition, maturity: 160-170 days, resistant to aphids, thrips and whitefly while tolerant to jassids, leaf hopper and boll-warms, highly responsive to fertilizer.
	HS 292	Andhra Pradesh, Telangana, Tamil Nadu and Karnataka	23.1	Suitable for irrigated, suitable for sowing from July-August, maturity: 160-170 days, moderately resistant to lodging and shattering and responsive to fertilizers, moderately tolerant to biotic and abiotic stresses.
	Gujarat Junagarh Cotton-102 (GJHV- 516)	Maharashtra, Gujarat & Madhya Pradesh	19.5	Suitable for irrigated and high fertility <i>kharif</i> ecology, maturity: 170-200 days, resistant to BLB, Jassids.
	Phule JLA-0603 (JLA – 0603)	Tamil Nadu, Karnataka and Andhra Pradesh	15.1	Suitable for rainfed conditions, maturity: 160-180 days, moderately resistant to sucking pests and boll-warms, resistant to jassids, BLB.
	GN Cot.Hy-32 (GISV-267)	Gujarat	22.0	Suitable for cotton growing irrigated areas, maturity: 160-185 days, moderately resistant to disease free for bacterial leaf blight (BLB), <i>Alternaria</i> leaf spot (ALS).
	GN Cot.Hy-26 (GVHB-170)	Gujarat	16.4	Suitable for cotton growing rainfed areas, maturity: 180-190 days, disease free for wilt and <i>Alternaria</i> leaf spot and resistant to bacteria blight, lower population of sucking pests.
	GN Cot.Hy-29 (GBab-106)	Gujarat	14.9	Suitable for cotton growing rainfed areas, maturity: 160-170 days, showed disease free reaction against wilt, sternaria leaf spot and bacteria blight, recorded below ETL population of sucking pests (Thrips, Whitefly, Jassids and Mealy bug).
	G.Cot.36 (Gujarat Cotton 36) (GSHV 177)	Tamil Nadu, Karnataka and Andhra Pradesh.	24.2	Suitable for irrigated condition, resistant to lodging, shattering, responsive to fertilizer, maturity: 165-185 days.
G.Cot.34 (Gujarat Cotton 34) (GISV 272)	Gujarat, Maharashtra and Madhya Pradesh.	23.5	Suitable for irrigated condition, resistant to lodging, shattering, responsive to fertilizer, maturity: 160-180 days.	

# Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Cotton</b>	Gujarat Cotton-38 (G.Cot-38) (GJHV-497)	Gujarat, Maharashtra and Madhya Pradesh.	23.5	Suitable for irrigated and high fertility kharif ecology, maturity: 170-210 days.
	SCS 1061	Maharashtra, Madhya Pradesh, Odisha and Gujarat.	19.2	Suitable for rainfed conditions, maturity: 140-150 days.
	NHH 715	Maharashtra, Gujarat and Madhya Pradesh, Telangana, Andhra Pradesh, Karnataka and Tamil Nadu	17-1	Suitable for high fertility condition, maturity: 150-160 days (medium), tolerant to sucking pests and diseases viz. bacterial blight, alternaria, myrothecium leaf spot and grey mildew.
	Gujarat Cotton Hybrid-22 (G. Cot.Hy.22) (GJHH-4)	Gujarat	28.6 (seed yield) 10.1 (lint yield)	Suitable for the cultivation under irrigated conditions during kharif season, medium maturity- 175-195 days.
	LD 1019 (Desi cotton)	Punjab	21.5	Suitable for cultivation under irrigated conditions, shattering tolerant <i>desi</i> cotton genotype, maturity: 160 days, moderately resistant to <i>Fusarium</i> wilt and tolerant to whitefly and jassid.
<b>Jute</b>	Shweta (BCCC-1)	West Bengal, Assam, Bihar and Odisha	27.5	Suitable for rainfed mid and high land where jute is cultivated followed by transplanted paddy, low and high fertility, maturity: 120 days, tolerance to stem rot disease and insect pests like semilooper and Bihar Hairy Caterpillar
	NJ 7010 (Rani)	West Bengal, Assam, Tripura, Odisha, Bihar and Uttar Pradesh	30.9	Suitable for both rainfed and irrigated situation, pre-kharif (mid- March to mid-July), maturity: 120-125 days, less susceptible to stem rot disease and Bihar Hairy Caterpillar.
<b>Mesta</b>	JRR-17 (Ayush) (JRR-2012-1)	Odisha, Maharashtra, Andhra Pradesh, Bihar and North eastern states	26.3	Suitable for adapted to rainfed HS mesta growing belt of the country, finer fibre, maturity: 130-135 days, tolerant to foot and stem rot disease and insects like spiral borer, mesta mealy bug
<b>Kenaf</b>	JBMP 3 (Priya) (JRK-2011-1)	Andhra Pradesh, Maharashtra, West Bengal, Odisha, Bihar and North eastern states especially Tripura	26.0	Suitable for adapted to rainfed, mesta growing belt of the country, maturity: 120-130 days, resistant to Yellow Vein Mosaic Disease.
	JBMP-4 (Utkarsh) (JRK-2013-2.)	WB, Odisha, Bihar, AP, Maharashtra, Tripura and Assam.	27.9 (fibre yield)	Resistance against yellow vein mosaic, foot and stem rot disease, maturity: 120-130 days (seed to fibre), 150 - 165 days (seed to seed).
<b>Sunhemp</b>	Kavita (SUIN-3)	UP, Bihar, MP, Chhattisgarh, Jharkhand, WB, Odisha, TN and Maharashtra.	10.3 (fibre yield)	Suitable for irrigated as well as rainfed mid and high land agro-ecological conditions, maturity: 135-145 days.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Sugarcane	CoVC 99463	Karnataka	60.0-70.0 t/acre	Suitable for moisture stress conditions, high tillering, better quality, suitable for wide row planting, good ratooner, drought tolerant and good for jaggery making, maturity: midlate.
	CoLK 09204 (Ikshu-3)	Punjab, Haryana, Uttarakhand, Rajasthan and Central & Western parts of Uttar Pradesh	82.8 t/ha (Cane yield) 9.3 t/ha (CCS yield)	Suitable for irrigated and water logged condition, mid-late clone, non-lodging, non-flowering, better ratooning and nutrient responsive, maturity: mid-late (11-12 months), resistant to moderately resistant for red rot and smut.
	CoPb 94 (CoPb 10181)	North West Zone : Punjab, Haryana, Rajasthan, Uttarakhand and Western & Eastern UP	84.8 t/ha	Suitable for normal irrigated condition, sub-tropical climate, spring planting with recommended dose of fertilizers, high yielding, high sugared, mid-late maturing, maturity: mid-late (11-12 months), red rot resistant.
	UP09453	Eastern Uttar Pradesh, Bihar, West Bengal and Assam	74.7 t/ha	Suitable for irrigated, normal fertility level, tolerant to stress. Sucrose (%) in juice (17.90), Pol (%) in cane (13.23), maturity: early, MR to major diseases and LS to major pests.
	Sri Mukhi (CoA 11321)	Andhra Pradesh	111.3 t/ha (Cane yield) 13.5 t/ha (CCS Yield)	Suitable for assured irrigated, limited irrigated, late planted, rainfed, water logged and red rot prone areas., Sucrose (%) in juice (17.16) and Pol (%) in cane (13.73), maturity: early, resistant to red rot, susceptible to smut & wilt, least susceptible to early shoot borer scale insect and highly susceptible to inter nodal borer.
	Ikshu – 4 CoLk 11206	Punjab, Haryana, Uttarakhand, Rajasthan, Central and Western parts of UP	91.5 t/ha	Suitable for irrigated planting, mid-late maturing commercial variety, good performance under moisture stress condition, maturity: mid-late, resistant to moderately resistant reaction to red rot and smut.
	Ikshu – 5 CoLk 11203	Punjab, Haryana, Uttarakhand, Rajasthan, Central and Western parts of UP	81.9 t/ha (Cane yield) 10.5 t/ha (CCS Yield)	Suitable for irrigated planting, high yielding, red rot resistant commercial variety, Sucrose (%) in juice (18.41) and Pol (%) in cane (13.44), maturity: mid-late, resistant to moderately resistant reaction to red rot and smut at majority of the centres, less susceptible to the main insect pests.
	CO 06022 (06 Co 022)	Ecological conditions of Tamil Nadu and Puducherry.	105.2 t/ha (Cane yield) 13.7 t/ha (CCS Yield)	Suitable for normal conditions of Peninsular Zone as well as drought prone areas, Sucrose (%) in juice (18.88), maturity: 10 months (300 days), early, moderately resistant to prevalent pathotype/races of red rot.
	Bahubali (VCF 0517)	Karnataka	200.0-225.0 t/ha	Suitable for irrigated areas of southern Karnataka, good ratoonability, deep rooting with moderate lodging, maturity: mid-late (12-14 months), resistant to foliar disease, less susceptible to leaf mite and internode borer.

# Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
Sugarcane	Charchika (CoOr 10346)	Odisha	100.0 t/ha	Suitable for non-lodging, well suited to irrigated uplands and medium lands, could also be grown in rice land with proper water management, maturity: mid-late (360 days), tolerant to water lodging and moisture stress.
	GNS-10 (2008 N 210) (CoN 13073)	Gujarat	143.1 t/ha	Maturity: 360 days (mid-late), resistant to moderately resistant to red rot, resistant to smut & moderately resistant to wilt.
	SNK 07680 (CoSnk 13103) Hiranyakeshi	Peninsular Zone (Gujarat, Maharashtra, Kerala, Karnataka, interior of Tamil Nadu and Andhra Pradesh, MP and Chattisgarh)	40.0-160.0 t/ha	Suitable for irrigated and moisture stress prone condition, maturity: 360 days (mid-late), non flowering, non spiny cane tops making excellent fodder.
	CoG 6 (G 2005 019)	Peninsular Zone (Gujarat, Maharashtra, Kerala, Karnataka, interior of Tamil Nadu and Andhra Pradesh, MP and Chattisgarh)	110.0-120.0 t/ha	Suitable for the salt affected soil and for high quality jiggery production, maturity: early (300 days) resistance to wooly aphids, short borer and internode borer, moderately resistant to red rot and resistant to smut.
	Uphar (Co 10026)	Peninsular Zone (Gujarat, Maharashtra, Kerala, Karnataka, interior of Tamil Nadu and Andhra Pradesh, MP and Chattisgarh)	109.0 t/ha	Suitable medium and high fertile soil under irrigated condition in autumn season, early maturing (300 days), tolerance to sugarcane white wooly aphid, drought, salinity, resistant to red rot, YLD and smut.
	Co 12029 (Karan 13)	North West Zone (Punjab, Haryana, Rajasthan, Central and western Uttar Pradesh and Uttrakhand)	109.0 t/ha	Suitable for growing under medium and high fertile soil under irrigated condition for planting in autumn & spring season, maturity: mid-late 360 days, resistant to red rot, wilt and smut.
	CoLk 12207 (Ikshu-6)	North Central & North East Zones (Eastern Uttar Pradesh, Bihar, West Bengal, Jharkhand and Assam)	75.4 t/ha	Suitable for water logging, lodging tolerant with multiple ratooning suitable for green fodder, maturity: 300 days (early), resistant to moderately resistant to red rot and smut.
	CoLk 12209 (Ikshu-7)	North Central & North East Zones (Eastern Uttar Pradesh, Bihar, West Bengal, Jharkhand and Assam)	77.5 t/ha	Suitable under moisture stress condition, good ratooner, maturity: 360 days (mid-late), resistant to moderately resistant to red rot and smut, least susceptible to the main insect pests
	Phule-10001 (MS 10001)	Peninsular Zone (Gujarat, Maharashtra, Kerala, Karnataka, interior of TN and AP, MP and Chattisgarh)	-	Early maturity (300 days), tolerant to salt affected soils, salinity and drought, resistant to smut, red rot, wilt foliar disease.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>FORAGES</b>				
<b>Forage Sorghum</b>	Gujarat Anand Forage Sorghum-11 (GAFS-11)	Gujarat	400.0 (GFY)	Suitable for cultivation in the Middle Gujarat, Bhal and North-West zone under rainfed conditions, it showed higher green forage, tall stature with non-lodging thin stem. In its reaction to anthracnose, zonate leaf spot and leaf blight diseases it was found comparable with checks.
	Gujarat Anand Forage Sorghum-12 (GAFS-12)	Gujarat	300.0 (GFY) 101.0 (DMY)	Suitable for rainfed, middle Gujarat, tall and non-lodging, maturity: 68-76 days.
	Fodder Sorghum CO 31 (TNFS 0952)	Tamil Nadu	1920 (GFY)	Suitable for multicut, tolerant to mild drought, non-lodging, non- shattering.
	CSV 35F (SPV 2317) (UTFS 85)	Delhi, Gujarat, Rajasthan, Uttarakhand, Haryana, UP, Punjab, MP, Maharashtra, TN, Karnataka	-	Suitable for cultivation during rainfed <i>kharif</i> season, high yielding, and single cut forage sorghum variety with good nutritional quality and good seed yielding ability, maturity: 120-125 days
	CSH 40F (SPV 1797) (UTFSH 2)	Delhi, Gujarat, Rajasthan, Uttarakhand, Haryana, UP, Punjab, MP, Maharashtra, TN, Karnataka	-	Suitable for green and dry fodder production under rainfed/irrigated (if required) condition, in medium to high fertile soils during <i>kharif</i> season, maturity: 72-75 days (flowering), 110-120 days (hard dough stage), tolerant to major shoot pests viz. Shoot fly and stem borer under natural field conditions.
	CSV 40F (SPV 2387)	Maharashtra, Karnataka and Tamil Nadu	467.0 (GFY) 133.0 (DFY)	Suitable for kharif cultivation in low rainfall situation with protective irrigation, moderately resistant to stem borer, shoot fly, major foliar diseases, single-cut forage variety, 240-250 cm tall, juicy semi-sweet stem.
	Jaicar Hariyali (CSV 38F/SPV 2316)	Maharashtra, Karnataka and Tamil Nadu.	-	Suitable for timely sowing (June 15 - July 15), maturity: 105-115 days, resistant to lodging and seed shattering.
<b>Napier Bajra Hybrid</b>	PBN 342 (Hybrid)	Punjab, Haryana, Rajasthan, Odisha, Assam, Tamil Nadu and Karnataka	940.0 (GFY)	It is an irrigated crop, it is $F_1$ hybrid but clonally propagated through stem cuttings or rooted slips, non-seed setting, maturity: perennial, gives good production up to 4 years of planting, tolerant to major diseases and pest
<b>Marvel Grass</b>	Phule Marvel-1 (Marvel 90-4)	Maharashtra, Madhya Pradesh, Uttar Pradesh and Gujarat	368.5 (GFY) 100.4 (DFY)	It is a perennial, rainfed grass of grassland and pasture land, can be cultivated as kharif crop, maturity: 60-65 days, resistant to leaf blight, sucking pest and defoliant not observed throughout the year.

## Agricultural Inputs

Crop	Variety	Recommended Zone	Avg. Yield (q/ha)	Salient features
<b>Marvel Grass</b>	Bundel Marvel Grass 2013-2 (JHD 2013-2)	Punjab and Rajasthan	442.2 (GFY) 153.1 (DMY)	Suitable for cultivation during <i>kharif</i> season for multicut system under rainfed and irrigated condition, 7-8% protein, medium late, resistant to leaf blight, no major pest incidence observed.
<b>Anjan Grass</b>	Phule Madras Anjan-1 (RCC-10-6)	Punjab, Rajasthan, Gujarat, Uttar Pradesh, Maharashtra,	397.7 (GFY) 111.6 (DMY) 7.8 (CPY)	It is rainfed (perennial) multi-cut crop variety, good fodder quality, maturity: 50-55 days, resistant to leaf blight, tolerant to sucking pests and diseases.
	CAZRI Anjan-358 (CAZRI 358)	Rajasthan	84.1 (GFY) 20.0 (DMY)	It is rainfed, <i>kharif</i> multicut crop variety, crude protein 5-6%, maturity: perennial crop, highly drought tolerant, no major disease and pest infestation.
	CAZRI Anjan 2178 (CAZRI 2178)	Rajasthan	108.4 (GFY) 38.4 (DMY)	It is rainfed <i>kharif</i> crop variety, crude protein 5-6%, maturity: perennial crop, no major disease and pest infestation.
<b>Dhaman Grass (Anjan grass)</b>	Bikaneri Dhaman (RCCB -2)	Rajasthan	150.0 (GFY) 35.0 (DMY)	It is perennial rainfed <i>kharif</i> crop variety, yield: 150 q/ha (GFY), 35 q/ha (DMY) under rainfed condition with irrigation, 5-6 cuttings of green fodder can be taken in one year, 6-7 % protein, maturity: perennial, seed set in November after cessation of monsoon, no major disease or pest infestation.
<b>Aparajita</b>	JGCT-2013-3 (Titli)	Maharashtra, Rajasthan, Punjab, Haryana, South UP, MP and Gujarat	250.0 (GFY) 61.0 (DMY)	It is a rainfed perennial legume, rich in crude protein content (20%), suitable for pastures, grasslands, maturity: perennial, no major infestation of disease and pest.
<b>Berseem</b>	Bundel Berseem Single Cut – 1 (JBSC – 1)	Maharashtra, Rajasthan, Punjab, Haryana, Uttar Pradesh and Madhya Pradesh	153.0 (GFY) 60.0 (DMY) 8.2 (CPY)	It is a single cut short duration forage variety grown under irrigated condition during <i>rabi</i> season, average per day productivity is 1.8 q/ha, 18% CP, tolerant to major biotic stress.
	BL-43	Punjab	950.0 (GFY)	It is a quick growing and tall variety with more number of tillers recommended for irrigated areas of Punjab state, superior quality green fodder and give good seed yield.
<b>Fodder Cowpea</b>	CO 9	Tamil Nadu	250.0 (GFY) 45.0 (DMY) 8.0 (Seed yield)	Suitable for irrigated condition throughout year, higher protein content (21.56%), reduced fibre portions confer increased digestibility, palatability and intake rate, maturity: shorter in duration (50-55 days); suited for intercropping with sorghum and maize, moderate field tolerant to drought, moderately resistant to yellow mosaic virus and resistant to major pests.
<b>Forage Sewan Grass</b>	CAZRI Sewan-1 (CAZRI 30-5)	Rajasthan	156.8 (GFY) 57.1 (DMY)	It is a rainfed <i>kharif</i> perennial crop variety, 6-7% crude protein, maturity: perennial, highly drought tolerant, no major disease and pest infestation.

Crop	Variety	Recommended Zone	Avg. Yield ( q/ha )	Salient features
<b>Oats</b>	Central Oat OS 403	Assam, Manipur, Odisha, WB, Eastern Uttar Pradesh, Bihar, Jharkhand, Telangana, AP, Karnataka, TN, Haryana, Punjab, Uttarakhand and Rajasthan	454.3-533.8 (GFY) 92.0-108.0 (DMY) 18.1-20.5 (SY)	Suitable for timely sown, normal fertility and irrigated conditions in <i>rabi</i> season, 9-10% CP, moderately resistant to <i>Helminthosporium</i> leaf blight.
	OL 1802-1 (Single cut)	Punjab, Haryana, Rajasthan, Uttrakhand	530.1 (GFY) 97.3 (DMY)	Suitable for timely sown, normal fertility, irrigated conditions in <i>rabi</i> season, 9-10% CP.
	OL 1769-1 (Single cut)	Western UP, Gujarat, Maharashtra, Madhya Pradesh, Chhattisgarh	487.8 (GFY) 102.0 (DMY)	Suitable for timely sown, normal fertility and irrigated conditions <i>rabi</i> season, maturity: 157 days, resistant to <i>Helminthosporium</i> leaf blight.
	OL 1760 (Single cut)	Tamil Nadu, Telangana and Andhra Pradesh	355.0 (GFY) 10.5 (SY)	Suitable for timely sown, normal fertility and irrigated conditions <i>rabi</i> season, better nutritional quality in terms of CP and IVDMD, maturity: medium, moderately resistant to <i>Helminthosporium</i> leaf blight.
	Bundel Jai 20122 (JHO 2012-2)	Telangana, Andhra Pradesh, Karnataka and Tamil Nadu	354.0 (GFY) 80.0 (DMY)	Suitable for timely sown, normal fertility and irrigated conditions <i>rabi</i> season, 10 % CP, maturity medium (110 days).
	Jawahar Oat 04-315 (Jawahar Oat 5)	Madhya Pradesh, Uttar Pradesh and Maharashtra	575-600 (GFY) 95-110 (DMY)	Suitable for irrigated condition for winter season, maturity: 140-150 days (seed to seed), least susceptible against leaf blight, aphids/ tiller and leaf defoliator.
	OL 11 (OL 1760)	Punjab	600 (GFY) 50 (SY)	Single cut variety recommended for irrigated areas of Punjab, superior fodder quality to OL 9 and Kent.
<b>Ricebean</b>	Jawahar Rice bean 05-4 (Jawahar Rice bean-2)	Madhya Pradesh	260.0 (GFY) 47.58 (DMY)	Suitable for rainy season, maturity: 115-120 days (seed to seed), least susceptible to flea beetle at field conditions.
<b>Lucerne</b>	Lucerne Co 3 (TNLC 14)	Telangana, Andhra Pradesh, Karnataka and Tamil Nadu.	505.0 (GFY) 96.2 (DMY) 11.4 (CPY)	Herbaceous perennial leguminous fodder, suitable for irrigated condition in garden lands, resistance to aphids & rust.
<b>Kalingada Seed</b>	CAZRI Kalingada-1 (CAZJK-13-2) sss(Water Melon)	Arid zone of Rajasthan and Gujarat Rainfed	3.5-4.5 (SY) 125.0-150.0 (fruit yield)	Suitable for rainfed <i>kharif</i> , oil content 28-30%, maturity: 90-95 days, suitable for low rainfall areas (< 300 mm), no serious disease and insect pest noticed.

Source: Division of Crop Science, Indian Council of Agricultural Research, New Delhi.