IMPROVED CROP VARIETIES RECOMMENDED FOR PUNJAB

Crop variety	Distinguishing characters	Av. yield (q/acre)	Where recommended
	2	3	4
Wheat			
Irrigated conditi	ons i)		
Timely sown			
HD 2967	It is double dwarf variety with an average plant height of 101 cm. It has profuse tillering. The ears are medium dense and tapering in shape with white glumes. Its grains are amber, medium bold, hard and lustrous. It is resistant to yellow and brown rusts but susceptible to karnal bunt and loose smut diseases. It takes about 157 days to matures.	21.4	Whole of Punjab
PBW 621	It is a double dwarf variety with an average plant height of 100 cm. 21.1 profuse tillering. The ears are medium dense and tapering in shape with white smooth glumes. Its grains are amber, hard, medium, bold and lustrous. It is resistant to yellow and brown rusts and susceptible to karnal bunt and loose smut diseases. It takes about 158 days to matures.	It has	Whole of Punjab
PBW 550	Double dwarf variety with plant height of 86 cm. The ears are medium dense, tapering in shape and fully bearded with white smooth glumes. Its grains are bold, amber, hard and lustrous, it is resistant to yellow and brown rusts. It matures in about 146 days. For securing good yield, seed rate of 45 Kg per acre for this variety is recommended. Sowing of this starts from 2nd week of November.	20.8	Whole of Punjab
DBW17	Profuse tilling variety with plant height of 87 cm. Its ears are medium dense and tapering with white smooth glumes. Grains are amber hard, medium bold and lustrous. It is susceptible to new races of yellow rust and moderately resistant to brown rust. It matures in 155 days.	20.0	Whole of Punjab
PBW502	Profuse tillering variety with plant height of 95cm. Ears are dense and tapering. Grains are bold, amber, hard and lustrous. It is susceptible to new races of yellow rust and resistant to brown rust and less susceptible to Karnal bunt. It matures in 150 days.	19.5	Whole of Punjab
PBW343	Variety with plant height of 100 cm., resists lodging due to stiff stem. The ears are dense, fully bearded with smooth glume. It is susceptible to Karnal bunt and loose smut. It matures in 155 days. It is susceptible to new races of yellow rust.	19.0	Whole of Punjab
WH542	Variety with plant height of 90 cm. It tillers profusely. The ears are dense, fully bearded with white glumes. It has medium bold, hard amber grains. It matures in 155 days. It is susceptible to new races of yellow rust.	18.5	Whole of Punjab
TL 2908 (Triticale)	Variety with plant height of 113 cm. Ears are long, drooping with red glumes and awns. Grains are amber, medium hard and bold. It is highly resistant to all major wheat diseases. It matures in 153 days.	16.4	Whole of Punjab
/l) Late sown PBW_590	It is double dwarf variety with an average plant hight of 80 cm. Its ears are medium dense and tapering in shape with white smooth glumes. Its grains are amber, hard, medium bold and lustrous. It is resistant to yellow and brown rusts and susceptible to karnal bunt and loose smut diseases. It matures in about 128 days.	16.4	Whole of Punjab
PBW509	Early maturing variety with bold grains and dark green foliage. Its plant height is 85cm. Ears are medium	15.8	Whole of Punjab excep submontaneous regions
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	dense. Grains are bold, amber, hard and lustrous. It is	3	-
	resistant to yellow and brown rusts but susceptible to karnal bunt. It matures In 130 days.		
PBW373	Variety with plant height of 90 cm. Tillers profusely, has dense, fully bearded ears with white smooth glumes. Resistant to brown rusts, susceptible to Kamal bunt, new races of	16.5	Whole of Punjab
TL 1210	yellow rust and loose smut. Mature_s in 140 days. The ears are long, drooping, fully awned with white glumes.	18.0	Whole of Punjab
(Triticale)	The grains are medium bold, light red and medium hard. It is highly resistant to all the important wheat diseases. It matures in 135 days.	16.0	whole of Fullyab
Rainfed	Mariata with an account of and hairst at 400 and 16 tillians	40.7	Missis of Denish
PBW527	Variety with an average plant height of 100 cm. It tillers profusely. The ears are medium dense and tapering in shape with white glumes. Its grains are amber, medium bold, hard and lustrous. It is resistant to yellow and brown rusts and susceptible to Kamal bunt and loose smut diseases. Matures in 160 days.	13.7	Whole of Punjab
PBW175	Variety with an average height of 110 cm. The ears are white in colour and fully awned. The grains are very bold and hard. It IS resistant to rust and Kamal bunt. It matures In 165 days.	12.5	Whole of Punjab
Durum Wheat			
WHD943	It is double dwarf variety of durum wheat with an average plant of height of 93 cm. It tillers profusely. Its grains are amber, hard, bold, uniform and lustrous with low incidence of yellow berry. It posses desireable quality characteristics and suitabality for pasta making. It is resistant to yellow and brwon rusts and less susceiptible to leaf blight. It takes about 154 days to mature.	19.8	Whole of Punjab
PDW291	Variety with profuse tillering and an average plant height of 83 em. Its leaves are dark and ears are dense, fully awned tapering with white smooth glumes. It's grains are amber, hard, bold, uniform and lustrous with low incidence of yellow berry: It possesses suitability for pasta making. It is resistant to yellow and brown rusts, loose smut and flag smut and less susceptible to powdery mildew, leaf blight and head scab diseases. It possesses field resistance to Kamal bunt. It has high degree of lodging resistance	19.4	Whole of Punjab
	and matures in 155 days.		
PD\IV233	Variety with plant height of 98 cm. The ears are medium dense, fully bearded with white awns. Grains are bold, unifonm and lustrous, It is superior in carotene content, sedimenation value and ,has low yellow berry, hence, suitable for export. Resistant to yellow and brown rusts, loose smut and Kamal bunt. It matures in 150 days.	18.2	Whole of Punjab
Barley	i,i		
PL807	Six rowed variety having medium broad & upright leaves. It is highly resistant to lodging. Ears are dense, erect and parallel with medi,um awns. Its grains are medium and light yellow in colour, Fairly resistant to yellow rust, brown rust, loose rust, iElaf blight & stripe disease. Matures in 137 days.	17.2	Whole of Punjab
DWRUB52	try/a rowed, profuse tillering variety with plant height of 101 cm. It, has dense, erect and arrow shaped medium awned ears. It Is resistant jo -yellow rust, brown rust, loose smut, covered smut and leaf blight diseases. It matures in 140 days. It is suitable for ~rewing, industry.	17.3	Whole of Punjab
VJM 201	iT'wo rowed variety having upright and narrow leaves with an 'average plantlheight of 118 cm. It tillers profusely and has less	14.8	Whole of Punjab
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	lodging due to hard stem. The ears are dense, tapering with medium white awns. Its grains are bold and white with thin husk. It is fairly resistant to brown rust, loose smut, covered smut and stripe diseases. It is suitable for brewing industry. It matures in 135 days. Six rowed variety with broad upright leaves. Plant height is	14.0	
PL419	80 cm, resists lodging. Resistant to yellow rust and smuts. It has thin husked bold seeds. It matures in 130 days. Six rowed semi-dwarf, stiff stemmed variety. It has purple leaf	17.1	Rainfed conditions. particularly In Kandi area
PL 172	sheath, thin husked uniform bold grain and is suitable for malting. It matures in 126 days.	17.1	In irrigated areas olthe State with moderate fertility
PL426	Six rowed semi dwarf, stiff straw variety, resists lodging. It is suitable for malting. It matures in 124 days.	14. 0	Throughout the State in irrigated conditions.
Rice			
PR12 0	Semi-dwarf variety with long slender and translucent grains with good cooking quality. It resists the attack of most of the pathotypes of bacterial blight pathogen. It matures in about 132 days.	28.5	Whole of Punjab
PR118	Semi-dwarf lodging tolerant variety with medium slender grains. Matures in 158 days. Resistant to four out of seven races of bacterial blight pathogen.	29.0	Whole of Punjab
PR116	Seml-dwart, stiff strawed, lodging tolerant variety. Long slender grains, matures in 144 days. Resistant to four out of seven races of bacterial blight pathogen.	28.0	Whole of Punjab
PR115	Short statured variety with dark green leaves. Has long erect flag leaf. Matures in 125 days. Resistant to most of the races of bacterial blight pathogen.	25.0	Whole of Punjab
PR	Short statu red and stiff strawed variety with narrow dark green	27.5	Whole of Punish
114	leaves. Long slender grains, matures In 145 days. Resistant to four out of seven races of bacterial blight pathogen. Semi-dwarf stiff	21.5	Whole of Punjab
PR113	strawed variety having dark green erect leaves. Grains are bold, heavy and less chalky. It is resistant to bacterial blight and matures in 142 days.	28.0	Whole of Punjab
PR 111	Short statu red, erect-teat variety. Grains are long, slender and clear with very good cooking quality. It is resistant to most prevalent races of bacterial blight pathogen. It matures in 138 days.	27.0	Whole of Punjab
8asmatl Rice			
Punjab Basmatl2	Weak photo period sensitive variety and is about 125 em tall.	12.	Besmeti areas of Punjab
	Its grains are extra long slender with excellent cooking and eating	6	
	qualities. Its grains have strong aroma and almost double upon		
	cooking and are non-sticky and soft to eat. It matures in about 140		
Pusa <i>Basmati</i> 112	days. 1 It is a photoperiod insensitive variety which is about 120 em tall.	13.	Pagmeti aroos of Dunich
2	It possesses extra long slender grains with good cooking quality.	7	Basmat; areas of Punjab
ı It has longest coo	oked rice length among all the aromatic rice varieties recommended for		
	Punjab. It matures in about 137 days.		
Super Basmati	It is weakly photo period sensitive variety, about 113 em tall. It has	14.	Basmati areas of Punjab
	extra fong slender aromatic grains. Matures in 145 days.	0	
Basmati 386	Photo period sensitive variety. Plant height is 180 cm. Grains are aromatic, extra long and slender. It matures in 155 days, ,	9.0	Basmati areas of Punjab
Pus <i>B</i> asmati 1	Se'mi.dwarffvariety with very good cooking quality. Its rice has, milp aroma as compared to 8asmati 386. It is about 100 cm. tall.and is photoperiod insensitive. It matures in about 140 days.	16. 0	Basmati areas of Punjab
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,Basmati 370	Basmati variety with aromatic grains having excellent cooking	12.0	Basmati areas of Punjab
	quality. It is about 165 em tall, photoperiod sensitive and lodges		
A	under high fertility conditions. It matures in about 150 days.		
Aromatic rice	it is possi durant abota agricul incorpolitics are motionics variety	17.0	Whole of Dunich
Punjab Mehak 1	it is semi-dwarf photoperiod insensitive aromatic rice variety	17.0	Whole of Punjab
	and is about 100 cm tall. Its grains are extra long slender with		
	goOd ceoking quality. It is resistant to most of the races or		
	bacterial blight pathogen. It matures in about 125 days and is		
Maize	suitable for multiple cropping system.		
Winter			
Buland	High yielding, cold tolerant, single cross hybrid. Matures in	31	Throughout the State In
	178 days.		irngated areas dunng rabi
			season
Partap 1	It has same characters as that of Partap except that it has	25.0	
	better cold tolerance, disease resistance and grain yield. Suitable for baby corn. Matures in 180 days.		
What of the main may be a mana			
KharlflSpri ng/Summ Long duration	eri)		
PMH1	Tall, single cross hybrid having zig-zag, sturdy and purple stem. Ears	21.0	Whole of Punjab under
	are long with yellow orange flint grains It matures in 95 days.		irrigated conditions.
	It has medium tall plants, medium thick stem and resistant to		
Parbhat	lodging, bold, yellow-orange, semi-flint to flint grains and matures in	17.5	Throughout the State under
	95 days.		irrigated conditions.
ii) Mp.dium duration			
Kesri	It is an early maturing Composite and has attractive orange-flint grains.	40.0	There was a set that Otata was day
110011	Theears have good tip filling	16.0	Throughout the State under irrigated conditions.
	It matures in 85 days		ingated conditions.
iii) Short duration			
PM~ 2	Short duration (83 days) drought tolerant hybrid having medium plant	16.5	For ramfed conditions. under
JH 3459	and ear height. Ears medium long with orange flint grains. It is drought and lodging tolerant short duration (84 days) single cross	18.0	irrigated conditions.
311 3439	hybrid and has orange flint grains.	17.5	Under irrigated conditions
Parkash	It \s drought tolerant early maturing (82 days) single cross hybrid and	(16.0)	Under irrigated conditions Under rainfed situations. For
	has yellow-orange flint grains.	15.0	rainfed situation
	Suitable as baby cern under irrigated cendition.		
Megha	Iris drought tolerent and matures in 82 days. It has yellow- orange flint		
	grains.	12.0	For rainfed areas.
Punjab Sathi 1	It is a short duration (70 days), heat tolerant variety. It has \Irange flint		
	small grains.	9.0	Throughout the State for
	T:		summer season (sowing from
			March 15 to April 30)
Special Purpose)'.		
Pearl Popcorn	It is a composite variety of popcern. It has medium plant height and ear placement. Ears are thin, cylindrical with small round flint gra,ins.	12.0	Throughout the State under
	Matures in 88 days. Popping quality is very good. ,This variety is highly		irrigated conditions
Punjab Sweet Corn	suitable for use as sweet cem on commercial ibasis because of its	13.0	Throughout the State under
1	developing and immature grains in green ears possess high sugar	10.0	ir[lgated conditions
	content. It matures in 95-100 days. Its -average yield per acre is 50 q		
1:11	green ears.		
Bajra	The hybrid is about 2 maters tell have been account of 22	16.4	Whole of Punjab
PHB2168	.The hybrid is about 2 meters tall, have long cempact ears of ,26 ern. It matures in 83 days. It is resistant to downy mildew.	10.4	WINDLE OF FULLIAN
	it matures in 05 days. It is resistant to downly milidew.		

Figures in brackets; are for rainfed condition

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PCB 164	Dual purpose composite variety having medium thick stalks and flexible stem with average plant height of 207 cm. It matures in 80 d,ays. This variety has long cylindrical dense ears having , 27-28 cm length and 8-10 cm girth. The grains are medium bold and	15.0	Whole of Punjab
PHB 47	light slate in colour. It is highly resistant to downy mildew. This hybrid is about 2 meters tall. It has long bristled ears. It matures in 85 days. It is resistant to downy mildew.	13.0	Whole of Punjab
Summer Moong			
SML 832	It has medium stature and determinate habit. Seeds are medium sized and very shining. Matures in 61 days.	4.6	For summer planting
SML 668	It has short stature and determinate habit. Seeds are bold and shining. Matures in 60 days.	4.5	For summer planting.
<i>Kharif</i> Moo'ng PAU911	Plants are erect and medium statured. Fairly resistant to MYMV and other diseases. Matures in 75 days. Grains are shining and	4.9	Whole of Punjab State except the south western
ML818	medium bold. Plants are erect, determinate and 70 cm tall. Possesses good degree of resistance to various diseases. Matures in 80 days.	4.9	districts. Whole of Punjab state.
ML613	Plants are erect and determinate, has resistance to various diseases. Grains are shining and green. Matures in 85 days.	4.3	Throughout the State.
ML267	Plants are erect and determinate, has fair degree of resistance	4.2'	-do-
PBM1	to ,jnsect pests and MYMV. Matures in 85 days. Plants are erect and determinate, has moderate degree of resistance to various diseases. It matures in 75 days.	4.2	Recommended for Bathinda
Summer Mash			Mansa, Faridkot, Mukatsar, Ferozepur and Sangrur districts.
Mash 1008	It has erect, compact and determinate plant type. It is short statured (25cm) variety. It matures in about 72 days.	4.5	For summer planting in whole of Punjab state.
Mash 414	It has compact determinate plant type. Maturity is synchronous. Grains are medium sized, blackish in colour. It matures in 72 days.	4.2	For summer planting in entire State except the
Mash 218	Erect. compact determinate plants with short stature. Grains are medium sized. bold and dull black. It matures in 75 days.	4.0	south western districts. For summer planting in entire State except the south western districts.
Kharlf Mash Mash 114	Plants are short, erect and compact. It is short duration variety and matures in about 83 days. Grains are bold and black. Fairly resistant to YMV bacterial leaf spot and cercospora leaf spot	3.6	Whole of Punjab State
Mash 338	diseases. Plants are short, erect and compact. It is early maturing and take~ about 90 days to mature. Grains are medium sized, black. Toler.ant to MYMV, leaf spot diseases, jassid and white fly.	3.5	Whole of Punjab state
Mash 1-1	Plants are tall, spreading and indeterminate. Grains are medium sized and black. Resistant to fungal and viral diseases. It matures in about 115 days.	3.5	Recommended for humid tracts of the state.
Arhar PAU	Indeterminate growth habit. It matures in 132 days. Its grains	5.6	Whole of Punjab state
881 Al, 201	~r1' medium sized yellow-brownish in colour Indeterminate growth habit. Plants are erect, about 2.5 m tall.	6.2	Whole of Punjab state
AL 15	I~.rp,atures in -'40 days. Determinate growth habit. It is 1.5 to 1.8 m tall. It matures ir' 135 days.	5.5	Whole of Punjab state
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Cotton			
American cotton	(Narma)		
MRC7017BGII	It has inbuilt resistance against American, spotted and pink bollworms and tobacco catterpiller, resistant to cotton leaf curl virus and tolerant to parawilt, with 29.7 mm fibre length	10.4	Whole of Punjab
MRC7031 BGII	and 33.6% ginning outturn. It has inbuilt resistance against American, spotted and pink bollworms, and tolerant to parawilt, its fibre length is 29.4 mm	9.8	Whole of Punjab
CH 308 Bt	and gins 33.4%. Spotted and American bollworm resistant hybrid with an average boll weight of 3.7 g; 28.4 mm 2.5% span length and 35.2% ginning out turn.	8.0	Whole of Punjab
CH314Bt	Spotted and American bollworm resistant hybrid with an average boll weight of 3.9 g; 28.2 mm 2.5% span length and 35.2% ginning out turn.	8.2	Whole of Punjab
RCH 317 Bt	Spotted and American bollworm resistant hybrid with an average boll weight of 3.7g; 28.6 mm 2.5% span length; and 33.9% ginning outturn	10.5	Whole of Punjab
MRC6301 Bt	Spotted and American bollworm resistant hybrid with an average boll weight of 4.3g; 28.3 mm 2.5% span length; and 34.7% ginning outturn	10.0	Whole of Punjab
/IRC6304 Bt	Resistant to spotted and American bollworms with an average boll weight of 3.9g; 29.0 mm 2.5% span length and 35.2% ginning outturn	10.1	Whole of Punjab
.HH 144	It is an intra-hirsutum, leaf curl virus resistant hybrid, with green semi okra lobed leaves, with an average boll weight of 5.5 g, long fibre (28.8 mm) suitable for spinning at 40 counts and 33.0% ginning outturn.	7.6	Whole of the state
.H 2076	High yielding cotton leaf curl resistant variety, with an average plant height of 153 cm; 2.5% span length of 27.1 mm and a ginning out turn of 33.4%.	7.8	
1861	It is a cotton-leaf-curl virus resistant variety. Height 135 cm. 2.5% span length is 26.3 mm, and 33.5% ginning outturn.	6.5	Whole of the state
.H 1556	Plant height is 140 cm. Round bolls with good fluffy opening. Matures in 165 days. It has long fibre with 2.5% span length of 27.7 mm and suitable for spinning at 40's counts and gins 34.0%.	8.5	Whole of the state
Desl Cotton	. 5		
PAU626H	Early maturing, high yielding genetic male sterility based hybrid of desi cotton with 2.5% span length of 20.1 mm and a ginning out turn of 40.0%.	9.8	Whole of the state
TDK 124	Early m~turing high yields variety. It matures in 160 days. Its ginning outturn is 36.4% and fibre length is 21 mm.	9.8	Throughout the state
.D 694	It has dark-red pigmented plants, narrow lobed leaves, pink flower. It matures in 170 days and ginning outturn is 40.9%.	7.0	Whole of the state
D 327	Its plants are redish brown with narrow lobed deep cut leaves and pink flowers and the average height is 180 em. It is tolerant to <i>Fusarium</i> wilt. Its ginning out-turn is 41.9 percent.	11.5	Throughout the state
Ollseeds Torla			
ΓL 17	It is early maturity variety, takes 90 days to mature. Oil content is 42%.	5.2	
PBT37	It takes 91 days to mature. Seeds are dark brown in colour and bold in size. Oil content is 41.7%.	5.4	Throughout the state under irregated conditions.
ΓL15	It takes about 88 days to mature. Oil content is 41%.	4.5	Throughout the state under irrigated conditions.

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Raya RLC 1	A variety with low erucic acid «2%) thus healthy for human consumption. It matures in 152 days having oil content 37.8%.	6. 6	Timely isown irrigated conditions in south-western
PBR210	A variety tolerant to white rust. Matures in 150 days having oil content 38.0%.	6.0	region. Timely sown irrigated conditions in south-western
PBR97	It matures in 136 days having oil content 39.8%	5. 2	region Suitable for rain-fed
PBR91	It matures in 145 days. Its oil content is 37.6%	8. 1	conditions throughout the state. Recommended for southwestern districts under timely sown irrigated conditions
RLM619	Bold seeded, it matures in 143 days. Oil content is 43.0%.	8. 0	Suitable for irrigated and rainfed conditions.
Gobhi Sarson Canola varieties GSC6			
3300	Early maturing variety (145 days). Bold seeds, oil content 39.1 %. 6.0		Timely sown irrigated conditions.
GSC5	Early maturing variety (147 days) with brownish black seeds and 38.7% oil.	5.4	Timely sown irrigated conditions.
Hyola PAC-401	It is a hybrid and matures in 150 days. Oil content is 42%.	6.7	Timely sown irrigated conditions.
Other varieties/hybrid	d		
PGSH 51	It is tall growing hybrid. Oil content is 44.5%. Matures In 162 days.	7.9	Timely sown irrigated and
GSL2	Atrazine resistant variety suitable for atrazine based weed management. It matures in 160 days. Oil content 44.5%.	6.8	high fertility conditions Timely sown irrigated
GSL 1	It has profuse branching and longer pods. Oil content 44.5%. It matures in 160 days.	6.7	conditions. General cultivation throughout the State.
African sarson			
PC5	Tall growing variety with waxy leaves. It is free from white rust, resistant to alternaria blight and tolerant to mustard aphid. Oil content is 37.3%.	8.0	Irrigated conditions in south western districts.
Taramira		_	
TMLC2	It has long main shoot, more pods on main shoot and more seeds per pod. It matures in 150 days. Oil content is 36.6%	2. 9	Bathinda, Sangrur, Ferozepur and Kandi areas of Hoshiarpur, Ropar and
Linseed LC 2063	High yielding variety with tolerance to prevailing diseases. It matures In 158 days. Oil content is 38.4%.	4. 9	Gurdaspur districts. Whole of Punjab
LC 2023	Tall with blue flowers and brown seeds. It is resistant to diseases. It matures in 158 and 163 days under rainfed and	4.	Throughtout the state
	irrigated conditions respectively. Its oil content is 37.4%.	5	-
Sunflower			
PSH569	It is medium tall hybrid with an average plant height of 166 cm. It	8.	Whole of Punjab for spring
1 611666	matures in about 102 days. Seeds are bold having oil content upto 40.2%.	2	season under irrigated conditions.
PSFH	It is a medium tali hybrid with an average plant height of 155	7.6	-do-
118	cm. It matures in about 98 days. Oil content is about 40.5		
SH 3322	percent. Medium tali hybrid with plant height of 160 em. It matures in 120 days. Oil content is 43%	8.3	-cc-

120 days. Oil content is 43%.

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GKSFH2002	Medium tall hybrid with plant height of 160 cm. It matures in	7. 5	-do -
Jawalamukhi	115 days. Oil content is 42.5%. It is a medium tall hybrid with an average plant height of	7.	-do-
	170 cm. It matures in 120 days. It has 42% oil content.	3	
Groundnut SG99	Bunch type variety with 66% shelling and 52% oil.	10.	In sandy to loamy sand
	It matures in 123 days. Tolerant to bud necrosis disease.	0	soils under irrigated conditions during summer and kharif seasons. In sandy to loamy sand
M 522	It is a semi-spreading type variety which matures in about 120 days. It has 68% shelling outturn. Oil content is 51 %	9. 0	soils under irrigated conditions duing kharif and summer seasons. Suitable for spring and kharif
SG84	Bunch type variety, maturing in 120-130 days. Oil content is 50% with 64% shelling outturn.	10. 0	seasons under irrigated conditions.
M548	It matures in 123 days, has oil content 51% and shelling outtum 69%.	6.0	For rainfed conditions.
Sesame	•		
RT346	It has long non-hairy capsules with bold seeds. It matures in 87 days. Oil content is 49%	2.7	Whole of Punjab
TC289	It has bold seeds, 51.6% oil, better oil quality, matures in 85 days.	2.1	Whole of Punjab
Punjab Til No.1 Sugarcane Early season	Maturity in about 80 days. It has bold and white seeds. Oil content is 52%.	2.0	do
CoJ85	A shy tillering variety with thick, green canes. Tolerant to red rot and frost. It is an average ratooner. Prone to lodging hence requires proper earthing up and propping.	306	Whole of Punjab
Co,J83	The canes of this variety are medium thick, greenish yellow in colour. Its juice contains 16-17 per cent sucrose in November, tolerant to red rot and frost. Performs well under high fertility condition with frequent irrigation.	300	-do-
CoJ 64,	Good germination, profuse tillering and good ratooner, very good quality <i>gur</i> , highly susceptible to red rot.	300 .	Whole of Punjab
Mid-season CoH 119	The consists the set of the big and a single second side of the second	0.40	Whale of Dunish
COH 119	The variety has tall thick greenish canes with promminant weather and ivory marks. Tolerant to red rot and frost. It is an average ratooner.	340	Whole of Punjab
CoJ88	Tall medium thick and greyish green canes. Its juice contains 17-18% sucrose. Excellent plant and ratoon yields. Non-lodging. Tolerant to red rot. <i>Gur</i> is of very good quality. Also suitable	337	Whole of Punjab
CoS 8436	for saline irrigation water and cogeneration. A short statu red variety with thick sturdy greenish yellow canes: Good germinator. Non lodging. Tolerant to red rot. Preforms high fertility soils with frequent irrigations.	307	Whole of Punjab
Late-season			
CoJ89	Suitable for late planting. Can be crushed from mid February onwards. Tolerant to red rot, easy to detrash and non-lodging.	326	Whole state of Punjab
Co 1148	Suitable' for cogeneration. Good germlnatorwith profuse tillering, excellent ratooning capacity and medium quality <i>gur</i> . Highly susceptible to red rot.	375	Whole state of Punjab
Dhalncha	A bold seeded variety quick growing. It has more nodules. It	3.	Whole of Puniab

A bold seeded variety quick growing. It has more nodules. It matures in 150 days.

Punjab; Dhaincha 1 3. 0 Whole of Punjab

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Sunnhamp PAU 1691	A quick growing variety with erect growth habit and suitable for green manuring. It matures in 136 days.	4. 8	Whole of Punjab
Narendra Sanai-1 A	quick growing variety with erect growth habit. Suitable for green manuring. Matures in 152 days.	3. 9	Whole of Punjab
Rabi Forage Crops Berseem			
BL42	Quick growing variety produces more number of tillers/ unit area. Nutritional quality is superior to BL 1 and BL 10. It is tolerant to stem rot disease. Supplies green fodder up to first week of June. It has higher seed setting capacity than other varieties.	440	Whole of Punjab
BL10	Longer duration variety and supplies green fodder up to mid June. Moderately resistant to stem rot disease. Seeds are smaller in size and seed crop matures in the end of June. Medium duration	410	Whole of Punjab
BL 1	variety and supplies green fodder up to end of May. Seeds are bright yellow, bold and attractive. Seed crop matures in the first week of June.	380	Whole of Punjab
Shaftal Shaftal 69	Plants are leafy having long stalk. Leaflets are roundish in shape and flowers are light pink in colour. It is highly resistant to stem-rot disease. Supplies green fodder up to mid May. Seeds are smaller in size and dark yellow in colour.	390	Whole of Punjab
Lucerne NO.9	Quick growing variety with deep green foliage, slender stalks and purple flowers. It grows well for a period of 5-7 years. It supplies green fodder up to July.	235-300	Whole of Punjab
LL Composite 5	Tall, erect and fast growing annual variety. Highly resistant to downy mildew. Leaves are dark green In colour and have purple flowers. Supplies green fodder up to first week of July in 8 cuttings. The seeds are bold in size.	280	Whole of Punjab
Oats	Tall proof growing leafy variety quitable for single/two	220	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
OL9	Tall, erect growing leafy variety suitable for single/two cuttings. Seeds are medium in size. Tall and erect growing variety. It can be grown for single/	230	Whole of Punjab
Kent	Tall and erect growing variety. It can be grown for single/ two cuttings. The seeds are bold in size.	210	Whole of Punjab
	Quick growing variety with soft stem and leaves. Its first cutting is ready in about 55 days after sowing and subsequent cuttings can be taken at an interval of 30-35 days. It supplies green fodder from November to May in 5-6 cuttings.	325	Whole of Punjab
,	, Quick growing variety and have white flowers. It gives only	128	Whole of Punjab
YSL 106	 one cutting for fodder. Quick growing early season variety. Its flowers are yellow in colour. It can be grown in the standing crops of cotton and maize. It gives one cutting for fodder. 	128	Whole of Punjab
Kharlf Forage Craw	ops		
J 1006	Plants are tali, vigorous and broad leaved. Moderately resistant to maydis leaf blight and brown stripe downy mildew diseases. Its ear placement Is medium. Ears are long, thick and cylindrical. Grains are white, bold and semi-flint to semi-dent.	165	Whole of Punjab
Sorghum SL44 .:	Sweet. juicy and thin-stemmed variety. It has a high content of 240 digestible dry matter. It is more resistant to red-leaf spot disease. i Suitable for cultivation in summer and <i>kharif</i> seasons under irrigated conditions.		Whole of Punjab
Puniah Suday	It is a multicut forage sorghum hybrid. Its plants are tali with long	480	Whole of Punish

, It is a multicut forage sorghum hybrid. Its plants are tali with long

480

Whole of Punjab

Punjab Sudax

Chari 1	broad leaves. Stems are juicy and sweet. It is resistant to red-leaf spot disease. The timely sown crop gives three cutting during the summer season.		
Bajra PHBF- 1	It is hybrid meant for green fodder. It flowers in 50 days. Its Plants attain a height of 198 cm. It has succulent stem and multicut nature. It is better in tillering and has long and broad leaves. It is resistant to major diseases and pests. "The fodder ~uanty of this hybric is better than FSC-16 in terms of dry matter intake, digestible cube protein and total digestible nutrients.	256	Whole of Punjab
PCB 164	Quick growing dual purpose composite variety having medium stalks and ~lexible stem. Average plant height is 207 cm. It is nutritious and highly resistant to downy mildew. It flowers in 50 days and plants remain green till maturity.	210	Whole of Punjab
FBC16	Composite variety having long and broad leaves. It is comparatively resistant to major diseases. It flowers 8-10 days later than other varieties and provides green fodder for a longer period. Its plants are about 235 cm tall. It has higher voluntary dry matter intake and contains low amount of oxalates.	230	Whole of Punjab
Teosinte TL 1	Plants are tall, leafy and profusely tillered. It is highly resistant to 225 m borer and has minor incidence of leaf-spot disease. Leaves remain gree up to maturity. Seeds are hard and slaty brown in colour.		Whole of Punjab
Napier-bajra PBN233	Hybrid It is non-hairy with smooth long and broad leaves. It sprouts earlier <i>in</i> spring and remains in vegetative growth up to onset of <i>winter</i> . Its winter dormancy period is about 15 days less than PBN 83.	1100	Whole of Punjab
PBN83	It is non-hairy, smooth leaved, fast growing and late flowering hybrid. It maintains its active growth longer in winter and sprouts earlier in spring.	960	Whole of Punjab
Guinea grass PGG518	Its plants are erect with profused tillering. Its leaves are long and broader and flowers 5-7 days later than PGG 101. The loss of nutrients is less if harvesting is delayed due to unavoidable circumstances It supplies green fodder from May to November in 5-6 cuttings.	750	Whole of Punjab
PGG 101	Plants of this variety have profuse tillering and leafy growth. It has bold seeds which help in better germination. Harvesting should be done before flowering to get nutritious fodder.	675	Whole of Punjab
Guara Guara 80	It is late maturing, quick growing, hairy and profusely branched 125 var It is resistant to <i>guara</i> leaf blight and stem breakage. This variety does not possess bunches on each node.	riety.	Whole of Punjab
Cowpea CL 367	It is dualpurpose variety suitable for fodder as well as pulse purpose. Its plants are erect with dark green leaves. It is resistant to yellow mosaic virus and Anthracnose diseases. It is superior in fodder quality. It bears large number of pods. The seeds are small in size and cream ish white in colour. The variety <i>is</i> suitable for human consumption as It has very good cooking quality.	108	Whole of Punjab
Cowpea ,88	This is a dual purpose variety suitable for fodder and as a pulse crop. It is highly resistant to yellow mosaic virus and Anthracnose diseases. It has large pods and bold seeds. The seed colour is chocolate brown and is more attractive for culinary purpose.	100	Whole of Punjab