

**Table 2.3.1. Performance of toria strains in IVT Zone-III**

S.No.	Code	Strain	Seed Yield (Kg/ha)					Plant Stand				Days to Maturity					1000-Seed Wt. (g)				
			MOR	PNT	KPR	DOL	Mean	MOR	PNT	KPR	DOL	MOR	PNT	KPR	DOL	Mean	MOR	PNT	KPR	DOL	
			1	2	3	4	(1-4)	1	2	3	4	1	2	3	4	(1-4)	1	2	3	4	
1	TCN-19-1	RMT-04-18-18	2346	1020	1543	1259	<b>1542</b>	170	162	120	170	101	84	99	97	95	3.6	2.7	3.8	6.1	
2	TCN-19-2	CG toria 2	1228	1585	1389	1457	<b>1415</b>	172	143	122	174	103	82	96	94	94	2.7	2.0	3.3	3.0	
3	TCN-19-3	TKM 19-1	1951	1081	1350	1111	<b>1373</b>	175	136	125	168	104	86	94	98	96	3.2	2.3	3.6	6.1	
4	TCN-19-4	TL 19	2235	909	1505	1404	<b>1513</b>	171	136	122	167	106	86	95	99	97	3.1	2.2	4.0	4.0	
5	TCN-19-5	ORT-18-6-16	1728	1641	1505	1364	<b>1559</b>	175	141	118	177	104	84	92	95	94	3.6	2.6	4.0	4.3	
<b>6</b>	<b>TCN-19-6</b>	<b>LR (Tapeswari)</b>	<b>2148</b>	<b>1348</b>	<b>1312</b>	<b>1265</b>	<b>1518</b>	<b>176</b>	<b>132</b>	<b>118</b>	<b>175</b>	<b>103</b>	<b>85</b>	<b>95</b>	<b>96</b>	<b>95</b>	<b>3.8</b>	<b>2.5</b>	<b>3.5</b>	<b>4.5</b>	
7	TCN-19-7	CAU Toria 2	1753	1435	1273	1333	<b>1449</b>	173	123	120	166	101	82	91	97	93	3.6	2.6	3.7	6.4	
<b>8</b>	TCN-19-8	JT 13-8	1043	1207	1582	827	<b>1165</b>	175	143	116	170	99	74	98	92	91	3.1	2.3	3.7	6.0	
9	TCN-19-9	PT-2015-6	2296	1326	1350	1148	<b>1530</b>	174	147	125	175	101	81	94	97	93	4.1	2.7	3.8	3.2	
10	TCN-19-10	TL 18	1494	952	1042	1006	<b>1123</b>	172	125	116	175	103	82	93	98	94	3.1	2.1	3.7	3.1	
11	TCN-19-11	TKM 19-2	2315	887	1312	1148	<b>1415</b>	174	118	113	167	102	85	95	99	95	3.3	2.1	3.4	4.8	
12	TCN-19-12	BAUT-08-06	1488	1280	1157	1296	<b>1305</b>	175	133	124	174	103	81	97	92	93	3.0	2.2	4.0	6.2	
13	TCN-19-13	NC ( PT 303 )	1914	1357	1505	1259	<b>1509</b>	172	149	119	167	102	81	98	95	94	3.3	2.4	3.5	5.9	
14	TCN-19-14	CAU Toria 1-1	1636	1625	1427	1617	<b>1576</b>	173	149	116	170	103	84	97	94	95	3.6	2.5	3.1	4.8	
15	TCN-19-15	ZC (Bhawani)	1685	1144	1350	1451	<b>1407</b>	175	133	125	168	103	75	95	92	91	3.3	2.4	3.8	4.7	
16	TCN-19-16	PT-2015-7	1667	1272	1142	988	<b>1267</b>	174	156	113	174	101	82	98	94	94	3.8	2.4	3.3	4.7	
17	TCN-19-17	RMT-10-5-18	2025	854	1157	895	<b>1233</b>	173	132	113	167	104	85	97	99	96	3.6	2.1	3.4	5.6	
18	TCN-19-18	BAUT-08-07	1580	1289	1543	1000	<b>1353</b>	171	139	118	175	102	84	102	94	96	3.6	2.3	3.9	5.9	
		GM	<b>1807</b>	<b>1234</b>	<b>1358</b>	<b>1213</b>	<b>1403</b>				<b>151</b>					<b>94</b>				<b>3.6</b>	
		CD (5 %)	193	192	231	181															
		CV (%)	6.7	9.8	10.7	9.0															
		DOS	10.10.19	7.10.19	29.9.19	9.10.19															

**Table 2.3.2. Performance of toria strains in IVT Zone-V Rainfed**

S.No.	Code	Strain	Seed Yield (Kg/ha)							Plant Stand					Days to Maturity						1000-Seed Wt. (g.)						
			BHU	JAG	IMP	SHL	KNK	KLN	Mean	BHU	JAG	IMP	KNK	KLN	BHU	JAG	IMP	SHL	KNK	KLN	Mean	BHU	JAG	IMP	SHL	KNK	KLN
			1	2	3	4	5	6	(1-6)	1	2	3	5	6	1	2	3	4	5	6	(1-6)	1	2	3	4	5	6
1	TCN-19-1	RMT-04-18-18	832	666	1906	552	856	1010	<b>970</b>	122	177	234	188	134	83	85	103	112	89	98	95	3.8	5.4	3.0	4.0	2.6	3.5
2	TCN-19-2	CG toria 2	690	1065	2035	611	706	734	<b>973</b>	128	167	238	194	149	81	85	101	108	88	87	92	3.6	6.4	3.1	3.9	2.9	3.0
3	TCN-19-3	TKM 19-1	688	965	1640	731	703	1068	<b>966</b>	122	201	233	198	139	83	88	104	112	90	98	96	3.5	7.4	3.4	3.9	3.1	2.9
4	TCN-19-4	TL 19	979	535	1343	785	723	1025	<b>898</b>	129	164	217	187	142	84	79	103	111	91	98	94	3.9	6.2	3.1	3.6	2.7	3.1
5	TCN-19-5	ORT-18-6-16	702	654	2069	770	645	848	<b>948</b>	123	172	248	196	147	82	85	101	110	<b>88</b>	97	94	3.7	5.3	3.2	3.8	2.9	3.2
<b>6</b>	<b>TCN-19-6</b>	<b>LR (Tapeswari)</b>	<b>736</b>	<b>565</b>	<b>2272</b>	<b>757</b>	<b>796</b>	<b>1057</b>	<b>1030</b>	<b>122</b>	<b>160</b>	<b>232</b>	<b>195</b>	<b>150</b>	<b>83</b>	<b>85</b>	<b>103</b>	<b>109</b>	<b>90</b>	<b>97</b>	<b>94</b>	<b>3.9</b>	<b>6.6</b>	<b>3.3</b>	<b>3.5</b>	<b>3.1</b>	<b>3.2</b>
7	TCN-19-7	CAU Toria 2	669	929	2148	887	784	701	<b>1020</b>	121	164	227	195	142	80	85	102	108	<b>87</b>	88	92	3.5	7.1	3.3	4.0	3.0	3.2
<b>8</b>	TCN-19-8	JT 13-8	654	622	1402	508	501	632	<b>720</b>	120	154	229	189	147	81	79	99	107	<b>83</b>	82	89	3.1	6.5	3.4	3.6	2.8	3.0
9	TCN-19-9	PT-2015-6	747	824	2054	997	648	1077	<b>1058</b>	123	136	227	191	147	82	85	102	108	88	93	93	3.8	6.4	3.3	4.0	3.3	3.4
10	TCN-19-10	TL 18	796	466	1131	716	692	1131	<b>822</b>	125	187	192	192	144	84	88	104	111	90	98	96	4.1	6.3	3.4	3.8	2.9	3.1
11	TCN-19-11	TKM 19-2	701	624	1230	561	810	1091	<b>836</b>	121	151	199	182	148	82	88	103	112	93	99	96	3.5	6.9	3.2	3.8	3.2	3.0
12	TCN-19-12	BAUT-08-06	639	561	1723	711	952	777	<b>894</b>	119	150	230	196	150	81	88	98	108	88	92	92	3.6	5.8	3.4	3.7	2.8	3.1
13	TCN-19-13	NC ( PT 303 )	644	561	1674	708	900	795	<b>880</b>	121	142	228	201	148	80	88	99	108	88	95	93	3.5	6.3	3.2	4.0	3.0	3.0
14	TCN-19-14	CAU Toria 1-1	722	793	2464	670	784	721	<b>1026</b>	124	148	218	188	147	81	85	101	107	87	89	92	3.7	6.3	3.3	4.0	3.1	3.1
15	TCN-19-15	ZC (Bhawani)	1025	553	1921	610	556	520	<b>864</b>	130	163	223	189	154	83	79	98	107	85	87	90	4.1	6.4	3.2	3.8	2.7	3.2
16	TCN-19-16	PT-2015-7	882	883	2030	848	689	840	<b>1028</b>	127	184	229	191	146	82	88	99	108	88	98	94	4.2	5.7	3.2	3.9	3.2	3.6
17	TCN-19-17	RMT-10-5-18	711	669	1575	566	639	797	<b>826</b>	124	196	228	197	153	85	88	105	110	91	100	97	3.5	6.5	3.5	4.0	4.1	3.2
18	TCN-19-18	BAUT-08-07	641	786	2059	722	917	772	<b>983</b>	122	155	224	186	147	80	85	103	108	89	90	92	3.2	6.5	3.2	3.8	3.2	3.0
		GM	<b>748</b>	<b>707</b>	<b>1815</b>	<b>706</b>	<b>739</b>	<b>866</b>	<b>930</b>					<b>170</b>							<b>93</b>					<b>3.9</b>	
		CD 5%	63	163	369	206	94	193																			
		CV (%)	5.1	14.5	12.8	17.5	8.0	12.8																			
		DOS	14.11.19	22.10.19	12.11.19	24.10.19	09.10.19	3.11.19																			

**Table 2.3.3a. Performance of toria strains in AVT-II Zone-V (rainfed)**

S.No.	Code	Strain	Seed Yield (Kg/ha)							Plant Stand				
			SHL	IMP	JAG	BHU	KLN	KNK#	Mean	IMP	JAG	BHU	KLN	KNK
			1	2	3	4	5	6	(1-5)	1	2	3	4	5
1	TCN 19-19	Bhawani (NC)	846	1241	505	681	806	653	816	343	306	127	295	402
2	TCN 19-20	TS-38	1002	1831	633	806	849	924	1024	365	276	130	305	369
3	TCN 19-21	Filler (PT 303)	804	1648	828	886	1052	843	1044	376	296	129	310	387
4	TCN 19-22	Tapeswari (LR)	785	1587	547	696	1028	817	929	365	332	128	311	402
<b>5</b>	<b>TCN 19-23</b>	<b>PT-303 (NC)</b>	<b>790</b>	<b>1711</b>	<b>830</b>	<b>935</b>	<b>994</b>	<b>986</b>	<b>1052</b>	<b>347</b>	<b>331</b>	<b>130</b>	<b>302</b>	<b>403</b>
		GM	<b>845</b>	<b>1604</b>	<b>668</b>	801	<b>946</b>	845	<b>973</b>					
		CD 5%	125	315	85	65	139	77						
		CV (%)	9.5	12.8	8.3	5.3	10.0	5.9						
		DOS	24.10.19	12.11.19	24.10.19	13.11.19	3.11.19	08.10.19						

# data f KNK excluded from computation of mean due to significant differences (greater than CD Value) between same genotype used as check/Filler

**Table 2.3.3b. Performance of toria strains in AVT-II Zone-V (rainfed)**

S.No.	Code	Strain	Days to Maturity							1000-Seed Wt. (g)					
			SHL	IMP	JAG	BHU	KLN	KNK	Mean	SHL	IMP	JAG	BHU	KLN	KNK
			1	2	3	4	5	6	(1-5)	1	2	3	4	5	6
1	TCN 19-19	Bhawani (NC)	119	98	87	82	87	83	95	3.4	2.9	7.2	3.5	2.9	3.4
2	TCN 19-20	TS-38	108	98	87	83	89	86	93	3.5	3.3	7.6	4.0	3.1	3.2
3	TCN 19-21	Filler (PT 303)	110	99	83	82	89	88	93	3.6	3.1	6.1	4.0	3.0	2.6
4	TCN 19-22	Tapeswari (LR)	111	101	81	84	95	89	94	3.5	3.3	6.4	3.7	2.9	3.4
<b>5</b>	<b>TCN 19-23</b>	<b>PT-303 (NC)</b>	<b>108</b>	<b>99</b>	<b>81</b>	<b>84</b>	<b>89</b>	<b>89</b>	<b>92</b>	<b>3.7</b>	<b>3.1</b>	<b>6.2</b>	<b>4.1</b>	<b>2.7</b>	<b>3.1</b>



**Table 2.3.4. Performance of early Indian mustard strains in IVT Zone-II**

S.No.	Code	Strain	Seed Yield (Kg/ha)					Plant Stand				Days to Maturity				1000-Seed Wt. (g)				
			LDH#	NDH	HSR	CHT	Mean	LDH	NDH	HSR	CHT	LDH	NDH	HSR	CHT	Mean	LDH	NDH	HSR	CHT
			1	2	3	4	(2-4)	1	2	3	4	1	2	3	4	(2-4)	1	2	3	4
1	MCN (E) -19-1	RH 1999-18	2531	2800	2796	1653	<b>2416</b>	134	117	116	119	125	120	117	125	<b>121</b>	5.2	5.3	5.2	3.7
2	MCN (E) -19-2	Pusa Mustrad 28 (LR)	1583	2511	2748	1598	2286	129	125	117	121	125	122	120	123	122	4.2	4.0	4.0	3.2
3	MCN (E) -19-3	Rasi 1605 (hybrid)	1977	2661	2583	1586	<b>2277</b>	134	123	119	122	125	124	127	126	<b>126</b>	4.2	4.6	4.6	3.6
4	MCN (E) -19-4	KMR (E) 19-2	1950	2539	1897	1779	<b>2072</b>	129	122	114	118	125	118	118	128	<b>121</b>	5.6	5.7	4.8	<b>3.5</b>
5	MCN (E) -19-5	NPJ-229	1502	2450	2340	1638	<b>2143</b>	132	115	121	123	125	100	117	127	<b>115</b>	4.8	4.8	4.5	3.1
6	MCN (E) -19-6	PHR-8023(Hybrid)	1360	2417	2400	1580	<b>2132</b>	128	126	116	116	129	118	126	122	<b>122</b>	3.9	4.1	4.0	3
7	MCN (E) -19-7	ORM 41-3-5	2391	2083	2500	1524	<b>2036</b>	126	123	112	129	129	124	116	127	<b>122</b>	5.0	4.0	4.6	3.7
8	MCN (E) -19-8	TM 53	1455	2189	1418	1568	<b>1725</b>	127	124	110	131	131	119	120	126	<b>122</b>	4.5	4.6	4.6	4.6
9	MCN (E) -19-9	<b>RH 1999-42</b>	<b>1890</b>	<b>2872</b>	<b>2955</b>	<b>1481</b>	<b>2436</b> *	<b>130</b>	<b>130</b>	<b>119</b>	<b>123</b>	<b>125</b>	<b>113</b>	<b>115</b>	<b>125</b>	<b>118</b>	<b>4.1</b>	<b>4.5</b>	<b>4.3</b>	<b>3.6</b>
10	MCN (E) -19-10	PRE-17-5	1928	2872	2311	1592	<b>2258</b>	131	130	112	127	123	115	120	124	<b>120</b>	3.9	4.3	4.4	3.8
11	MCN (E) -19-11	DRMR 2017-21	1673	2322	2329	1653	<b>2101</b>	131	127	113	125	125	124	124	124	<b>124</b>	4.0	4.2	4.0	3.1
12	MCN (E) -19-12	BAUM-08-14	2512	1917	3085	1592	<b>2198</b>	137	122	113	116	130	124	155	126	<b>135</b>	4.1	4.6	4.5	3
13	MCN (E) -19-13	JD 6 (ZC)	1196	1978	2405	1501	<b>1961</b>	131	117	115	121	123	124	121	123	<b>123</b>	4.2	3.4	4.4	3.3
14	MCN (E) -19-14	RMM-12-3-18	1268	1767	3032	1741	<b>2180</b>	137	133	117	130	132	124	154	124	<b>134</b>	4.0	3.5	4.6	3.2
15	MCN (E) -19-15	<b>Pusa Mustrad 25 (NC)</b>	<b>1577</b>	<b>2367</b>	<b>2275</b>	<b>1563</b>	<b>2068</b>	<b>139</b>	<b>121</b>	<b>120</b>	<b>125</b>	<b>125</b>	<b>101</b>	<b>119</b>	<b>121</b>	<b>114</b>	<b>4.3</b>	<b>4.9</b>	<b>4.7</b>	<b>3.4</b>
16	MCN (E) -19-16	PRE-17-2	1736	2722	1939	1843	<b>2168</b>	132	120	119	126	125	99	118	127	<b>115</b>	3.9	4.0	4.0	4.1
17	MCN (E) -19-17	DRMRCI 116	1134	2256	2400	1802	<b>2153</b>	129	126	120	122	125	121	127	126	<b>125</b>	4.0	4.0	4.5	3.3
18	MCN (E) -19-18	NPJ-230	1513	2383	2470	1614	<b>2156</b>	133	126	116	131	123	101	116	124	<b>114</b>	4.4	4.5	4.3	3.1
19	MCN (E) -19-19	BAUM-09-12-1	2111	2133	2204	1564	<b>1967</b>	132	123	118	112	122	119	131	128	<b>126</b>	3.8	3.5	4.4	3.6
20	MCN (E) -19-20	TM 52	1496	1872	1430	1605	<b>1636</b>	132	118	113	122	124	117	133	123	<b>124</b>	4.7	5.1	4.3	4.4
21	MCN (E) -19-21	KMR (E) 19-1	1256	2344	2329	1836	<b>2170</b>	131	127	119	132	124	123	133	126	<b>127</b>	4.1	4.5	4.4	4.1
22	MCN (E) -19-22	PHR-8022(Hybrid)	1252	2450	2423	1641	<b>2171</b>	136	129	116	124	124	121	130	122	<b>124</b>	3.9	3.2	4.3	3.8
		GM	<b>1695</b>	<b>2359</b>	<b>2376</b>	<b>1634</b>	<b>2123</b>				<b>121</b>					<b>122.4</b>				4.1
		CD (5 %)	238	267	437	218														
		CV (%)	8.5	7.1	11.1	8.1														
		DOS	4.10.19	13.9.19	28.9.19	25.9.19														

\* Strain outyielding the best check by a margin of more than or equal to 10 percent on the basis of seed yield

# data of LDH centre excluded from computation of mean due to late sowing than the prescribed for Zone II

**Table 2.3.5a. Performance of early Indian mustard strains in IVT Zone-III**

S.No.	Code	Strain	Seed Yield (kg/ha)							Plant Stand						
			MOR	PNT	JHS	KPR	BPR#	DOL	Mean	MOR	PNT	JHS	KPR	BPR	DOL	
			1	2	3	4	5	6	1-4,6	1	2	3	4	5	6	
1	MCN (E) -19-1	RH 1999-18	2235	1274	2277	1813	2043	1414	<b>1803</b>		173	178	224	122	98	173
2	MCN (E) -19-2	Pusa Mustrad 28 (LR)	2877	1222	2297	1582	2043	1235	<b>1842</b>		169	141	194	119	133	165
3	MCN (E) -19-3	Rasi 1605 (hybrid)	3334	1357	2743	1775	1969	2136	<b>2269</b>		170	131	174	120	110	174
4	MCN (E) -19-4	<b>KMR (E) 19-2</b>	<b>2797</b>	<b>1557</b>	<b>2457</b>	<b>1620</b>	<b>1910</b>	<b>1593</b>	<b>2005</b>	*	<b>177</b>	<b>110</b>	<b>239</b>	<b>117</b>	<b>106</b>	<b>167</b>
5	MCN (E) -19-5	<b>NPJ-229</b>	<b>2290</b>	<b>1480</b>	<b>2596</b>	<b>1543</b>	<b>1725</b>	<b>1519</b>	<b>1886</b>	*	<b>175</b>	<b>170</b>	<b>212</b>	<b>116</b>	<b>101</b>	<b>168</b>
6	MCN (E) -19-6	PHR-8023(Hybrid)	3161	1352	2450	1620	1503	1407	<b>1998</b>		176	177	180	119	97	167
7	MCN (E) -19-7	ORM 41-3-5	2765	1213	2330	1427	1929	1463	<b>1840</b>		173	142	223	117	117	172
8	MCN (E) -19-8	TM 53	1710	1031	1791	1736	1491	1148	<b>1483</b>		172	124	221	120	94	168
9	MCN (E) -19-9	<b>RH 1999-42</b>	<b>2895</b>	<b>1276</b>	<b>2582</b>	<b>1620</b>	<b>2457</b>	<b>1500</b>	<b>1975</b>	*	<b>172</b>	<b>146</b>	<b>225</b>	<b>114</b>	<b>133</b>	<b>163</b>
10	MCN (E) -19-10	<b>PRE-17-5</b>	<b>2519</b>	<b>1674</b>	<b>2570</b>	<b>1543</b>	<b>1985</b>	<b>1278</b>	<b>1917</b>	*	<b>172</b>	<b>133</b>	<b>278</b>	<b>112</b>	<b>96</b>	<b>172</b>
11	MCN (E) -19-11	DRMR 2017-21	3192	999	2275	1582	2296	1401	<b>1890</b>		172	132	164	120	121	167
12	MCN (E) -19-12	BAUM-08-14	3185	894	2113	1852	2114	1395	<b>1888</b>		173	137	243	124	136	169
13	MCN (E) -19-13	JD 6 (ZC)	2778	1044	2060	1582	1914	1790	<b>1851</b>		174	118	232	117	103	167
14	MCN (E) -19-14	RMM-12-3-18	3074	991	2048	1775	1698	1358	<b>1849</b>		174	115	216	122	105	173
15	MCN (E) -19-15	<b>Pusa Mustrad 25</b>	<b>1654</b>	<b>1554</b>	<b>1988</b>	<b>1350</b>	<b>2086</b>	<b>1278</b>	<b>1565</b>		<b>174</b>	<b>139</b>	<b>220</b>	<b>119</b>	<b>116</b>	<b>171</b>
16	MCN (E) -19-16	<b>PRE-17-2</b>	<b>2056</b>	<b>1756</b>	<b>2473</b>	<b>1543</b>	<b>1793</b>	<b>1401</b>	<b>1846</b>	*	<b>173</b>	<b>170</b>	<b>241</b>	<b>118</b>	<b>94</b>	<b>167</b>
17	MCN (E) -19-17	<b>DRMRCI 116</b>	<b>3370</b>	<b>909</b>	<b>2475</b>	<b>1620</b>	<b>1988</b>	<b>1389</b>	<b>1953</b>	*	<b>171</b>	<b>143</b>	<b>218</b>	<b>121</b>	<b>106</b>	<b>167</b>
18	MCN (E) -19-18	<b>NPJ-230</b>	<b>2864</b>	<b>1761</b>	<b>2199</b>	<b>1698</b>	<b>1611</b>	<b>1253</b>	<b>1955</b>	*	<b>176</b>	<b>137</b>	<b>260</b>	<b>117</b>	<b>98</b>	<b>177</b>
19	MCN (E) -19-19	BAUM-09-12-1	2932	1196	2169	1582	2019	1444	<b>1865</b>		178	155	260	118	105	169
20	MCN (E) -19-20	TM 52	1926	941	2316	1736	1448	1111	<b>1606</b>		171	111	253	121	99	168
21	MCN (E) -19-21	<b>KMR (E) 19-1</b>	<b>3216</b>	<b>1415</b>	<b>2159</b>	<b>1698</b>	<b>2460</b>	<b>1519</b>	<b>2001</b>	*	<b>176</b>	<b>128</b>	<b>270</b>	<b>122</b>	<b>112</b>	<b>170</b>
22	MCN (E) -19-22	<b>PHR-8022(Hybrid)</b>	<b>3198</b>	<b>1109</b>	<b>2091</b>	<b>1505</b>	<b>1611</b>	<b>1628</b>	<b>1906</b>	*	<b>176</b>	<b>116</b>	<b>246</b>	<b>118</b>	<b>90</b>	<b>171</b>
		GM	<b>2729</b>	<b>1273</b>	<b>2294</b>	<b>1627</b>	1913	<b>1439</b>	<b>1872</b>							<b>156</b>
		CD (5 %)	372	241	216	192	NS	197								
		CV (%)	8.6	11.5	11.5	7.4	21.7	8.3								
		DOS	10.10.19	7.10.19	8.10.19	29.9.19	7.10.19	10.10.19								

# data of BPR excluded from computation of mean due to high CV

\* Strain(s) outyielding the best check by margin of > 10 % seed yield

**Table 2.3.5b. Performance of early Indian mustard strains in IVT Zone-III**

S.No.	Code	Strain	Days to Maturity							1000-Seed wt. (g)					
			MOR	PNT	JHS	KPR	BPR	DOL	Mean	MOR	PNT	JHS	KPR	BPR	DOL
			1	2	3	4	5	6	1-4,6	1	2	3	4	5	6
1	MCN (E) -19-1	RH 1999-18	120	107	141	121	141	128	<b>124</b>	4.4	2.5	4.4	5.0	4.5	5.6
2	MCN (E) -19-2	Pusa Mustrad 28 (LR)	117	111	142	118	125	131	<b>124</b>	4.0	2.2	3.9	4.7	4.5	5.4
3	MCN (E) -19-3	Rasi 1605 (hybrid)	118	112	141	120	141	132	<b>125</b>	5.0	2.2	3.9	4.9	4.1	5.0
<b>4</b>	<b>MCN (E) -19-4</b>	<b>KMR (E) 19-2</b>	<b>117</b>	<b>107</b>	<b>129</b>	<b>117</b>	<b>138</b>	<b>123</b>	<b>119</b>	<b>5.6</b>	<b>2.5</b>	<b>4.0</b>	<b>4.2</b>	<b>3.8</b>	<b>5.8</b>
<b>5</b>	<b>MCN (E) -19-5</b>	<b>NPJ-229</b>	<b>116</b>	<b>107</b>	<b>133</b>	<b>119</b>	<b>133</b>	<b>124</b>	<b>120</b>	<b>4.9</b>	<b>3.1</b>	<b>4.3</b>	<b>4.9</b>	<b>3.9</b>	<b>5.2</b>
6	MCN (E) -19-6	PHR-8023(Hybrid)	126	112	133	118	133	134	<b>125</b>	4.0	2.5	4.0	4.8	3.4	4.7
7	MCN (E) -19-7	ORM 41-3-5	131	112	144	116	144	130	<b>127</b>	4.7	2.3	4.2	4.9	4.6	6.1
8	MCN (E) -19-8	TM 53	127	109	137	125	131	128	<b>125</b>	4.3	2.4	3.8	4.9	4.0	5.2
<b>9</b>	<b>MCN (E) -19-9</b>	<b>RH 1999-42</b>	<b>123</b>	<b>107</b>	<b>131</b>	<b>120</b>	<b>130</b>	<b>126</b>	<b>122</b>	<b>4.3</b>	<b>2.5</b>	<b>3.7</b>	<b>5.1</b>	<b>4.3</b>	<b>3.8</b>
<b>10</b>	<b>MCN (E) -19-10</b>	<b>PRE-17-5</b>	<b>111</b>	<b>109</b>	<b>130</b>	<b>119</b>	<b>135</b>	<b>126</b>	<b>119</b>	<b>4.5</b>	<b>2.6</b>	<b>4.0</b>	<b>4.6</b>	<b>3.7</b>	<b>6.9</b>
11	MCN (E) -19-11	DRMR 2017-21	121	114	136	120	132	130	<b>124</b>	5.0	2.3	3.9	4.7	4.5	6.3
12	MCN (E) -19-12	BAUM-08-14	133	115	132	126	143	132	<b>128</b>	4.8	2.4	4.1	5.0	4.0	6.2
13	MCN (E) -19-13	JD 6 (ZC)	131	113	128	128	131	134	<b>127</b>	4.1	2.5	4.0	4.1	5.0	4.8
14	MCN (E) -19-14	RMM-12-3-18	128	116	140	125	131	132	<b>128</b>	4.5	2.1	3.8	4.8	4.5	5.2
15	<b>MCN (E) -19-15</b>	<b>Pusa Mustrad 25 (NC)</b>	<b>112</b>	<b>105</b>	<b>134</b>	<b>115</b>	<b>125</b>	<b>125</b>	<b>118</b>	<b>4.3</b>	<b>2.5</b>	<b>4.0</b>	<b>4.6</b>	<b>4.9</b>	<b>4.8</b>
<b>16</b>	<b>MCN (E) -19-16</b>	<b>PRE-17-2</b>	<b>111</b>	<b>105</b>	<b>130</b>	<b>119</b>	<b>125</b>	<b>125</b>	<b>118</b>	<b>3.7</b>	<b>2.4</b>	<b>3.4</b>	<b>4.3</b>	<b>3.6</b>	<b>6.0</b>
<b>17</b>	<b>MCN (E) -19-17</b>	<b>DRMRCI 116</b>	<b>120</b>	<b>113</b>	<b>132</b>	<b>118</b>	<b>142</b>	<b>131</b>	<b>123</b>	<b>4.4</b>	<b>2.2</b>	<b>3.0</b>	<b>4.7</b>	<b>4.1</b>	<b>3.9</b>
<b>18</b>	<b>MCN (E) -19-18</b>	<b>NPJ-230</b>	<b>113</b>	<b>106</b>	<b>122</b>	<b>120</b>	<b>126</b>	<b>126</b>	<b>117</b>	<b>4.3</b>	<b>3.1</b>	<b>4.1</b>	<b>4.9</b>	<b>3.8</b>	<b>4.6</b>
19	MCN (E) -19-19	BAUM-09-12-1	120	112	131	122	141	133	<b>124</b>	4.0	2.1	3.8	5.0	4.0	6.2
20	MCN (E) -19-20	TM 52	114	108	131	125	130	126	<b>121</b>	4.3	2.5	3.8	4.9	3.8	5.2
<b>21</b>	<b>MCN (E) -19-21</b>	<b>KMR (E) 19-1</b>	<b>116</b>	<b>109</b>	<b>131</b>	<b>120</b>	<b>143</b>	<b>128</b>	<b>121</b>	<b>4.3</b>	<b>2.3</b>	<b>4.0</b>	<b>4.3</b>	<b>4.4</b>	<b>4.3</b>
<b>22</b>	<b>MCN (E) -19-22</b>	<b>PHR-8022(Hybrid)</b>	<b>118</b>	<b>107</b>	<b>134</b>	<b>123</b>	<b>144</b>	<b>127</b>	<b>122</b>	<b>4.0</b>	<b>1.9</b>	<b>3.5</b>	<b>4.1</b>	<b>4.8</b>	<b>5.7</b>
		GM							<b>123</b>						<b>4.1</b>

**Table 2.3.6a. Performance of early Indian mustard strains in IVT Zone-V**

S.No.	Code	Strain	Seed Yield (Kg/ha)							Plant Stand				
			IMP	SHL #	BHU\$	JAG\$	KNK\$	KLN	Mean	IMP	BHU	JAG	KNK	KLN
			1	2	3	4	5	6	(1,6)	1	3	4	5	6
1	MCN (E) -19-1	RH 1999-18	1353	694	788	986	1241	1251	<b>1302</b>	181	124	185	194	164
2	MCN (E) -19-2	Pusa Mustrad 28 (LR)	1309	702	1283	1516	1409	1076	<b>1192</b>	175	129	191	198	172
3	MCN (E) -19-3	Rasi 1605 (hybrid)	1151	774	1049	710	1617	1236	<b>1193</b>	216	127	161	192	166
4	MCN (E) -19-4	KMR (E) 19-2	958	746	1163	1146	1493	1067	<b>1013</b>	268	130	174	185	171
5	MCN (E) -19-5	NPJ-229	943	640	776	891	1013	1162	<b>1053</b>	206	128	122	186	154
6	MCN (E) -19-6	PHR-8023(Hybrid)	909	740	1244	632	1322	1116	<b>1012</b>	224	133	145	195	169
7	MCN (E) -19-7	ORM 41-3-5	1156	756	1050	867	1305	1155	<b>1155</b>	194	129	142	191	165
8	MCN (E) -19-8	TM 53	1106	657	762	700	796	844	<b>975</b>	181	125	136	190	181
9	MCN (E) -19-9	RH 1999-42	1901	740	955	619	1389	1164	<b>1533</b>	232	128	176	186	176
10	MCN (E) -19-10	PRE-17-5	1595	778	1007	611	1004	1227	<b>1411</b>	216	130	162	193	159
11	MCN (E) -19-11	DRMR 2017-21	1175	770	915	695	1348	1280	<b>1228</b>	213	129	158	193	178
12	MCN (E) -19-12	BAUM-08-14	1378	1118	925	753	929	996	<b>1187</b>	221	128	128	198	167
13	MCN (E) -19-13	JD 6 (ZC)	1511	699	877	633	1082	1027	<b>1269</b>	226	127	121	197	159
14	MCN (E) -19-14	RMM-12-3-18	1432	776	922	543	1172	942	<b>1187</b>	222	130	216	195	173
<b>15</b>	<b>MCN (E) -19-15</b>	<b>Pusa Mustrad 25 (NC)</b>	<b>1402</b>	<b>735</b>	<b>906</b>	<b>616</b>	<b>845</b>	<b>920</b>	<b>1161</b>	<b>226</b>	<b>129</b>	<b>162</b>	191	<b>172</b>
16	MCN (E) -19-16	PRE-17-2	1763	1051	817	580	1395	1107	<b>1435</b>	238	127	147	182	154
17	MCN (E) -19-17	DRMRCI 116	1758	672	808	607	1389	987	<b>1373</b>	223	126	194	192	162
18	MCN (E) -19-18	NPJ-230	1477	659	836	626	1100	938	<b>1207</b>	227	125	96	191	171
19	MCN (E) -19-19	BAUM-09-12-1	1452	579	817	760	1314	982	<b>1217</b>	223	127	97	195	158
20	MCN (E) -19-20	TM 52	1254	650	759	579	1039	981	<b>1118</b>	202	125	146	194	173
21	MCN (E) -19-21	KMR (E) 19-1	1151	751	810	1049	1496	1209	<b>1180</b>	221	126	140	189	160
22	MCN (E) -19-22	PHR-8022(Hybrid)	1230	703	861	651	1392	1222	<b>1226</b>	242	128	118	189	171
		GM	<b>1335</b>	<b>745</b>	<b>924</b>	<b>762</b>	<b>1231</b>	<b>1086</b>	<b>1210</b>					<b>192</b>
		CD (5 %)	318	206	94	171	169	273						
		CV (%)	15.0	17.0	6.2	13.6	8.6	14.4						
		DOS	13.11.19	1.11.19	19.11.19	2.12.19	19.11.19	5.11.19						

§ data of BHU, JAG and KNK excluded from computation of mean due to inappropriate date of sowing

# data of SHL excluded from computation of mean due to high CV



**Table 2.3.6b. Performance of early Indian mustard strains in IVT Zone-V**

S.No	Code	Strain	Days to Maturity							1000-Seed Wt.(g)					
			IMP	SHL#	BHU\$	JAG\$	KNK	KLN	Mean	IMP	SHL	BHU	JAG	KNK	KLN
			1	2	3	4	5	6	(1,6)	1	2	3	4	5	6
1	MCN (E) -19-1	RH 1999-18	118	120	100	113	114	112	115	4.5	2.8	3.9	6.6	4.4	3.8
2	MCN (E) -19-2	Pusa Mustrad 28 (LR)	120	118	99	116	116	113	117	5.7	3.6	4.5	4.9	4.0	5.1
3	MCN (E) -19-3	Rasi 1605 (hybrid)	120	118	101	116	118	112	116	4.5	3.2	4.2	6.0	4.2	4.1
<b>4</b>	MCN (E) -19-4	KMR (E) 19-2	<b>118</b>	118	98	122	117	112	115	6.0	3.9	4.4	4.8	4.4	5.4
5	MCN (E) -19-5	NPJ-229	118	118	98	113	116	106	112	4.7	3.7	4.0	4.4	4.4	4.6
6	MCN (E) -19-6	PHR-8023(Hybrid)	121	116	100	113	120	112	117	3.7	2.8	4.4	5.0	3.9	3.2
7	MCN (E) -19-7	ORM 41-3-5	121	118	101	122	122	113	117	4.6	3.5	4.1	5.2	4.6	4.1
8	MCN (E) -19-8	TM 53	120	120	100	113	121	109	115	4.2	4.0	3.9	4.2	4.3	4.3
9	MCN (E) -19-9	RH 1999-42	119	118	102	116	117	105	112	4.4	3.2	4.1	4.4	4.5	4.2
10	MCN (E) -19-10	PRE-17-5	119	118	99	113	115	106	113	4.1	3.1	4.1	4.5	4.2	3.6
11	MCN (E) -19-11	DRMR 2017-21	121	120	103	122	119	113	117	5.1	3.5	3.8	4.5	4.8	4.0
12	MCN (E) -19-12	BAUM-08-14	121	118	105	113	119	115	118	5.0	3.4	3.9	5.0	4.9	4.1
13	MCN (E) -19-13	JD 6 (ZC)	119	118	103	120	117	115	117	4.0	2.9	3.8	4.7	4.8	3.6
14	MCN (E) -19-14	RMM-12-3-18	121	118	105	120	123	114	118	3.7	2.7	3.8	4.8	3.4	3.8
<b>15</b>	<b>MCN (E) -19-15</b>	<b>Pusa Mustrad 25 (NC)</b>	<b>118</b>	<b>120</b>	<b>98</b>	<b>122</b>	115	<b>102</b>	<b>110</b>	<b>4.3</b>	<b>3.8</b>	<b>4.0</b>	<b>5.6</b>	4.4	<b>4.6</b>
16	MCN (E) -19-16	PRE-17-2	118	114	99	113	113	103	111	3.8	3.2	3.9	5.3	3.3	3.2
17	MCN (E) -19-17	DRMRCI 116	121	114	100	113	121	114	118	4.6	3.2	3.9	4.2	4.7	3.6
18	MCN (E) -19-18	NPJ-230	119	114	99	120	114	102	111	4.3	3.5	3.8	5.5	4.3	4.3
19	MCN (E) -19-19	BAUM-09-12-1	120	114	101	120	119	114	117	4.2	3.5	3.8	5.0	4.8	4.1
20	MCN (E) -19-20	TM 52	120	118	102	116	118	105	113	4.4	3.3	4.0	5.0	4.7	4.8
21	MCN (E) -19-21	KMR (E) 19-1	118	118	100	113	118	115	117	4.0	3.8	3.9	5.8	5.5	4.2
22	MCN (E) -19-22	PHR-8022(Hybrid)	118	118	102	116	119	114	116	3.8	2.5	4.0	4.3	3.8	3.4
		GM							<b>115</b>						<b>4.3</b>

**Table 2.3.7. Performance of early Indian mustard strains in IVT Zone-VI**

S.No.	Code	Strain	Seed Yield (Kg/ha)					Plant Stand	Days to Maturity	
			RAI	DWD	HYD#	JGT#	Mean	JGT	JGT	Mean
			1	2	3	4	(1-2)	4	4	4
1	MCN (E) -19-1	RH 1999-18	878	277	350	1201	577	175	90	90
2	<b>MCN (E) -19-2</b>	<b>Pusa Mustrad 28 (LR)</b>	<b>812</b>	<b>484</b>	<b>408</b>	<b>785</b>	<b>648</b>	<b>188</b>	<b>94</b>	<b>94</b>
3	MCN (E) -19-3	Rasi 1605 (hybrid)	904	708	419	816	806	206	92	92
4	MCN (E) -19-4	KMR (E) 19-2	623	674	390	1607	648	342	90	90
5	MCN (E) -19-5	NPJ-229	818	368	293	1244	593	339	100	100
6	MCN (E) -19-6	PHR-8023(Hybrid)	941	1118	424	1757	1030	252	93	93
7	MCN (E) -19-7	ORM 41-3-5	1123	564	383	1027	844	236	100	100
8	MCN (E) -19-8	TM 53	762	558	409	780	660	128	93	93
9	MCN (E) -19-9	RH 1999-42	726	446	322	1086	586	301	89	89
10	MCN (E) -19-10	PRE-17-5	854	631	451	1201	742	316	93	93
11	MCN (E) -19-11	DRMR 2017-21	602	460	340	1180	531	202	96	96
12	MCN (E) -19-12	BAUM-08-14	535	385	410	1286	460	196	100	100
13	MCN (E) -19-13	JD 6 (ZC)	787	522	335	1037	655	121	101	101
14	MCN (E) -19-14	RMM-12-3-18	787	589	425	505	688	222	99	99
15	MCN (E) -19-15	Pusa Mustrad 25 (NC)	689	478	422	933	583	161	92	92
16	MCN (E) -19-16	PRE-17-2	660	543	338	817	602	163	95	95
17	MCN (E) -19-17	DRMRCI 116	747	570	381	1517	659	346	100	100
18	MCN (E) -19-18	NPJ-230	738	449	351	947	594	205	88	88
19	MCN (E) -19-19	BAUM-09-12-1	711	472	273	1315	591	174	99	99
20	MCN (E) -19-20	TM 52	519	439	356	955	479	177	101	101
21	MCN (E) -19-21	KMR (E) 19-1	959	683	325	1633	821	288	101	101
22	MCN (E) -19-22	PHR-8022(Hybrid)	1122	767	434	1140	945	183	94	94
		GM	786	554	374	1126	670	224		95
		CD (5 %)	83	72	NS	359				
		CV (%)	8.4	7.8	30.7	20.0				
		DOS	24.10.19			29.10.19				

# data of HYD and JGT centres excluded from computation of mean due to high CV

**Table 2.3.8a. Performance of early Indian mustard strains in AVT-I Zone-III**

S.No.	Code	Strain	Seed Yield (Kg/ha)							Plant Stand					
			MOR\$	PNT\$	JHS\$	KPR\$	BPR#\$	DOL	Mean	MOR	PNT	JHS	KPR	BPR	DOL
			1	2	3	4	5	6	(6)	1	2	3	4	5	6
1	MCN (E) -19-23	JD 6( ZC)	2579	1482	2558	1513	2300	1596	<b>1596</b>	356	249	386	209	194	334
2	MCN (E) -19-24	DRMRCI 96	2551	1041	2483	1438	1825	1336	<b>1336</b>	349	290	391	208	184	336
<b>3</b>	<b>MCN (E) -19-25</b>	<b>Pusa Mustard 27 (LR)</b>	<b>2378</b>	<b>1910</b>	<b>2842</b>	<b>1749</b>	<b>2196</b>	<b>1781</b>	<b>1781</b>	<b>359</b>	<b>273</b>	<b>442</b>	<b>207</b>	<b>186</b>	<b>339</b>
4	MCN (E) -19-26	RMM 10-1-1	3004	1372	2402	1525	1670	1496	<b>1496</b>	358	251	401	203	144	333
5	MCN (E) -19-27	Filler (PM 25)	2892	1154	2482	1600	1668	1361	<b>1361</b>	352	248	396	207	172	331
6	MCN (E) -19-28	Pusa Mustard 25 (NC)	2431	1889	2860	1463	2771	1396	<b>1396</b>	353	256	370	204	230	340
		GM	<b>2639</b>	<b>1475</b>	<b>2604</b>	<b>1548</b>	<b>2072</b>	<b>1494</b>	<b>1494</b>						<b>335</b>
		CD (5 %)	277	273	337	132	542	226							
		CV (%)	7.0	10.8	8.5	5.6	17.4	9.9							
		DOS	10.10.19	7.10.19	8.10.19	29.9.19	7.10.19	10.10.19							

# data of BPR centre excluded from computation of mean due to high CV

\$ data of MOR, PNT, JHS, KPR and BPR excluded from computation of mean due to significant differences between same genotype used as check/filler

**Table 2.3.8b. Performance of early Indian mustard strains in AVT-I Zone-III**

S.No.	Code	Strain	Days to Maturity							1000-Seed wt. (g)					
			MOR	PNT	JHS	KPR	BPR	DOL	Mean	MOR	PNT	JHS	KPR	BPR	DOL
			1	2	3	4	5	6	(6)	1	2	3	4	5	6
1	MCN (E) -19-23	JD 6( ZC)	120	111	130	125	128	128	128	4.5	2.6	4.1	4.4	4.4	4.3
2	MCN (E) -19-24	DRMRCI 96	125	115	142	128	144	130	130	4.6	2.6	4.2	3.9	3.7	4.1
<b>3</b>	<b>MCN (E) -19-25</b>	<b>Pusa Mustard 27 (LR)</b>	<b>118</b>	<b>107</b>	<b>141</b>	<b>127</b>	<b>138</b>	<b>125</b>	<b>125</b>	<b>4.2</b>	<b>3.0</b>	<b>4.2</b>	<b>4.3</b>	<b>4.0</b>	<b>4.5</b>
4	MCN (E) -19-26	RMM 10-1-1	122	112	133	124	129	127	127	3.8	2.0	4.2	3.9	3.5	3.8
5	MCN (E) -19-27	Filler (PM 25)	127	113	129	125	125	128	128	4.3	2.8	4.2	4.0	4.0	4.5
6	MCN (E) -19-28	Pusa Mustard 25 (NC)	123	106	141	123	130	124	124	4.5	2.4	4.1	4.0	3.8	5.1
		GM							<b>127</b>						4.4

**Table-2.3.9. Performance of Indian mustard strains in IVT timely sown (irrigated), Zone - I**

S.No.	Code	Strain	Yield (kg/ha)					Plant Stand				Days to Maturity				1000 Seed Wt. (g)			
			KNG	DLK	UNA	BJR	Mean	KNG	DLK	UNA	BJR	KNG	DLK	UNA	BJR	KNG	UNA	BJR	
			1	2	3	4	(1-4)	1	2	3	4	1	2	3	4	1	2	3	
1	MCN-19-1	TM 172-1	422	382	345	577	<b>432</b>	136	138	151	148	147	132	127	185	3.6	3.5	4.0	
2	MCN-19-2	KMR-19-3	1087	823	911	937	<b>940</b>	134	137	153	148	155	135	132	182	4.3	4.5	5.1	
3	MCN-19-3	RMM-12-2-18	771	789	695	916	<b>793</b>	136	135	149	149	155	139	136	185	3.6	3.9	5.2	
4	MCN-19-4	RH 749 (ZC)	977	720	910	1000	<b>902</b>	135	138	153	149	153	136	132	183	3.3	3.8	5.3	
5	MCN-19-5	NPJ-231	1094	700	933	875	<b>901</b>	135	136	149	151	154	136	132	183	5.3	5.4	4	
6	MCN-19-6	DRMR 2018-25	972	992	821	961	<b>937</b>	137	137	149	147	155	139	135	182	4.2	4.3	5.1	
7	MCN-19-7	PR-17-7	1187	810	917	1011	<b>981</b>	139	139	153	146	155	136	133	184	4.3	4.3	5.9	
8	MCN-19-8	RGN-462	1133	992	913	940	<b>994</b>	136	136	151	148	157	133	129	186	4.8	5.0	4.6	
9	MCN-19-9	ACN-184	1058	611	920	877	<b>866</b>	138	139	153	147	153	140	136	182	5.1	5.3	5.6	
10	MCN-19-10	Kranti (NC)	1006	686	932	914	<b>885</b>	136	138	153	147	157	139	135	182	3.6	3.7	4.8	
<b>11</b>	<b>MCN-19-11</b>	<b>AKMS-19-2</b>	<b>1444</b>	<b>1128</b>	<b>1104</b>	<b>1130</b>	<b>1202</b>	*	<b>134</b>	<b>138</b>	<b>151</b>	<b>145</b>	<b>161</b>	<b>138</b>	<b>135</b>	<b>183</b>	<b>4.2</b>	<b>4.2</b>	<b>5.2</b>
12	MCN-19-12	DRMRCI 117	1035	760	892	874	<b>890</b>	134	137	149	150	157	140	135	182	3.7	3.9	5.1	
13	MCN-19-13	RH 1799-24	1069	787	853	881	<b>897</b>	137	138	153	149	159	140	136	182	6.0	5.9	5.2	
14	MCN-19-14	NPJ-232	889	681	679	996	<b>811</b>	136	138	151	150	155	134	127	183	5.0	5.0	5.3	
15	MCN-19-15	SKM 1712	970	605	835	972	<b>845</b>	137	139	149	151	157	135	129	180	4.7	4.8	4.8	
16	MCN-19-16	HUJM-18-7	1081	713	912	1010	<b>929</b>	138	136	154	149	151	133	132	184	5.1	5.2	4.9	
17	MCN-19-17	BAUM-08-18	755	635	461	956	<b>702</b>	136	139	150	151	155	137	134	184	4.2	4.3	5.8	
18	MCN-19-18	PRB-15-2	992	840	935	890	<b>914</b>	135	138	151	150	154	137	133	183	5.7	5.7	5.8	
19	MCN-19-19	JM-14-2	1267	710	902	957	<b>959</b>	135	139	151	150	157	132	128	183	4.5	4.5	5.7	
20	MCN-19-20	RMM-12-1-18	902	739	832	999	<b>868</b>	132	136	152	149	154	134	128	181	3.6	3.7	3.7	
21	MCN-19-21	KMR-19-4	680	742	720	907	<b>762</b>	137	139	152	149	152	137	131	183	3.1	3.1	5.2	
<b>22</b>	<b>MCN-19-22</b>	<b>Girriraj (LR)</b>	<b>1250</b>	<b>946</b>	<b>977</b>	<b>977</b>	<b>1038</b>	<b>138</b>	<b>139</b>	<b>152</b>	<b>152</b>	<b>153</b>	<b>132</b>	<b>125</b>	<b>182</b>	<b>4.8</b>	<b>4.8</b>	<b>5</b>	
23	MCN-19-23	SKM 1621	1079	664	938	907	<b>897</b>	133	138	150	147	158	135	134	182	4.7	4.8	4.9	
24	MCN-19-24	RH 1424	878	724	915	936	<b>863</b>	137	136	153	147	157	136	132	181	3.6	3.9	5.6	
		GM	<b>1000</b>	<b>757</b>	<b>844</b>	<b>933</b>	<b>884</b>				<b>143</b>				<b>151</b>			<b>4.6</b>	
		CD (5%)	151	135	96	82													
		CV(%)	9.5	11.0	7.1	6.0													
		DOS	18.10.19	25.10.19	30.10.19	16.10.19													

\* Strain(s) outyielding the best check by a margin of > 10 percent seed yield

**Table-2.3.10. Performance of Indian mustard strains in IVT timely sown (Irrigated), Zone - II**

S.No.	Code	Strain	Seed Yield Kg/ha							Plant Stand					Days to Maturity						1000 Seed Weight (g)				
			HSR	LDH	NDH	CHT	SGN	MOD	Mean	HSR	LDH	NDH	CHT	SGN	HSR	LDH	NDH	CHT	SGN	MOD	HSR	LDH	NDH	CHT	SGN
			1	2	3	4	5	6	(1-6)	1	2	3	4	5	1	2	3	4	5	6	1	2	3	4	5
1	MCN-19-1	TM 172-1	2167	1160	1941	1624	1409	1680	<b>1663</b>	124	129	152	114	165	152	133	131	144	150	145	5.3	4.6	5.5	3.8	4.4
2	MCN-19-2	KMR-19-3	3808	2196	2696	1690	2852	2281	<b>2587</b>	121	125	143	122	170	150	148	147	146	159	151	5.4	4.3	5.3	3.5	5.6
3	MCN-19-3	RMM-12-2-18	3461	2247	2620	1855	2307	1862	<b>2392</b>	124	128	133	112	164	154	143	148	147	160	149	4.5	4.0	4.3	3.8	5.2
4	MCN-19-4	<b>RH 749 (ZC)</b>	<b>2997</b>	<b>2696</b>	<b>2717</b>	<b>1762</b>	<b>2844</b>	<b>2360</b>	<b>2563</b>	<b>121</b>	<b>131</b>	<b>149</b>	<b>118</b>	<b>175</b>	<b>156</b>	<b>145</b>	<b>149</b>	<b>144</b>	<b>158</b>	<b>144</b>	<b>6.2</b>	<b>5.2</b>	<b>5.8</b>	<b>4.6</b>	<b>6.0</b>
5	MCN-19-5	NPJ-231	3520	2341	3148	2014	2807	1576	<b>2568</b>	119	118	143	121	170	150	140	136	148	155	146	5.2	4.6	5.4	4.5	5.0
6	MCN-19-6	DRMR 2018-25	3065	2248	2735	1892	3160	1656	<b>2459</b>	127	125	123	120	160	154	135	149	150	156	149	4.5	4.2	5.5	3.5	4.8
7	MCN-19-7	PR-17-7	3339	2444	3031	2051	3097	2454	<b>2736</b>	124	131	126	114	175	153	140	140	143	157	146	4.4	4.3	4.7	4.7	4.2
8	MCN-19-8	RGN-462	3170	2455	2796	1764	3071	2087	<b>2557</b>	118	127	134	111	165	157	144	152	142	158	152	5.1	4.4	4.6	3.9	5.0
9	MCN-19-9	ACN-184	2924	1991	2033	1583	2314	1634	<b>2080</b>	128	126	142	120	170	154	138	153	146	157	148	4.9	4.1	4.7	4.7	5.4
10	MCN-19-10	Kranti (NC)	3559	2750	2509	1676	2840	1937	<b>2545</b>	119	135	138	112	160	155	143	139	148	152	146	4.3	4.2	4.4	3.4	4.6
11	MCN-19-11	AKMS-19-2	3849	2746	2772	2184	2533	2395	<b>2747</b>	119	134	128	118	162	154	151	153	150	162	149	4.3	4.1	4.1	4.6	4.4
12	MCN-19-12	DRMRCI 117	3467	2311	2859	1776	2920	1533	<b>2478</b>	122	116	133	130	172	151	136	145	149	158	146	4.8	4.4	4.7	4.4	5.0
13	MCN-19-13	RH 1799-24	3549	2318	3106	1678	2699	2084	<b>2572</b>	125	133	143	117	176	150	141	143	145	160	148	6.2	4.2	6.5	3.8	5.0
14	MCN-19-14	NPJ-232	3426	2452	3323	2073	2372	1445	<b>2515</b>	122	124	152	121	173	154	134	137	142	156	147	5.9	4.3	5.6	3.6	5.2
15	MCN-19-15	SKM 1712	3513	2153	2756	1836	2289	1790	<b>2389</b>	122	129	145	121	172	158	135	141	151	160	148	5.6	4.0	5.6	3.1	5.4
16	MCN-19-16	HUJM-18-7	3204	2162	1817	1616	2667	1337	<b>2134</b>	129	129	139	114	185	154	145	147	146	159	148	5.5	4.5	4.6	4.2	4.4
17	MCN-19-17	BAUM-08-18	3408	2130	2817	1699	2527	1580	<b>2360</b>	125	129	141	130	169	155	137	141	150	155	150	5.2	5.4	5.1	4.6	4.2
18	MCN-19-18	PRB-15-2	3187	2083	2474	1830	2881	1648	<b>2351</b>	120	132	126	120	180	155	143	144	152	160	146	6.7	4.5	6.1	3.9	5.8
19	MCN-19-19	JM-14-2	3567	2274	2583	2034	2483	1607	<b>2425</b>	120	126	148	111	182	154	142	147	144	159	148	4.7	4.0	4.6	4.9	4.2
20	MCN-19-20	RMM-12-1-18	3268	2456	2773	1783	2895	1859	<b>2506</b>	124	123	147	115	180	157	141	148	149	160	149	4.7	4.1	4.7	4.1	5.2
21	MCN-19-21	KMR-19-4	3342	2247	2514	1622	2990	1429	<b>2357</b>	112	128	139	114	176	154	137	138	148	160	146	4.3	4.3	4.4	3.6	4.4
22	MCN-19-22	Giriraj (LR)	3255	2010	2942	1743	3169	2049	<b>2528</b>	121	129	138	122	172	155	143	150	152	158	150	6.2	5.2	6.2	5.4	3.6
23	MCN-19-23	SKM 1621	3341	2337	2956	2017	2421	1828	<b>2483</b>	123	138	152	124	176	151	141	142	150	157	146	5.0	4.0	5.7	3.5	5.2
24	MCN-19-24	RH 1424	3916	2192	2788	1550	2653	1743	<b>2474</b>	123	123	132	121	170	150	132	139	149	156	150	5.3	4.1	4.7	4.5	4.2
		GM	3346	2267	2696	1806	2675	1827	<b>2436</b>					<b>136</b>						<b>148</b>					<b>4.7</b>
		CD (5%)	501	306	351	307	261	167																	
		CV(%)	9.4	8.5	8.2	10.7	6.1	5.7																	
		DOS	11.10.19	24.10.19	10.10.19	22.10.19	25.10.19	6.10.19																	

**Table 2.3.11a. Performance of Indian mustard strains in IVT timely sown (irrigated), Zone - III**

S.No.	Code	Strain	Seed Yield (Kg/ha)									Plant Stand							
			MOR	PNT	KPR#	VAR	KOT	BND	JHS	DOL	Mean	MOR	PNT	KPR	VAR	KOT	BND	JHS	DOL
			1	2	3	4	5	6	7	8	(1-2,4-8)	1	2	3	4	5	6	7	8
1	MCN-19-1	TM 172-1	2101	1031	2536	1226	1961	957	1140	1268	1383	175	137	123	177	148	171	282	170
2	MCN-19-2	KMR-19-3	3019	1540	2531	1613	2964	2258	2251	1807	2208	172	147	120	184	152	174	266	162
3	MCN-19-3	RMM-12-2-18	2303	1365	2530	2066	2618	1408	1868	1412	1863	174	140	118	189	149	192	266	165
4	MCN-19-4	Maya (ZC)	2732	1029	2341	1188	3092	2001	2626	1374	2006	170	131	120	177	163	168	250	168
5	MCN-19-5	NPJ-231	3300	1159	2572	1936	3327	1738	1941	1235	2091	173	134	126	179	159	171	282	167
6	MCN-19-6	DRMR 2018-25	2505	1082	2341	1553	3048	2040	2536	2095	2123	177	138	120	180	156	184	233	164
7	MCN-19-7	PR-17-7	3323	1917	2495	1917	3060	2028	2373	1561	2311	170	151	121	188	154	185	260	162
8	MCN-19-8	RGN-462	3224	1534	2341	1781	3280	1784	2358	1830	2256	174	146	119	188	156	176	259	168
9	MCN-19-9	ACN-184	2535	1060	2546	1563	2953	1881	1822	1226	1863	172	149	118	186	158	190	253	169
<b>10</b>	<b>MCN-19-10</b>	<b>Kranti (NC)</b>	<b>3411</b>	<b>1054</b>	<b>2546</b>	<b>1827</b>	<b>3000</b>	<b>1792</b>	<b>2396</b>	<b>1594</b>	<b>2153</b>	<b>176</b>	<b>144</b>	<b>120</b>	<b>176</b>	<b>158</b>	<b>183</b>	<b>258</b>	<b>167</b>
11	MCN-19-11	AKMS-19-2	2528	1741	2521	2415	2785	2107	2329	1835	2248	176	143	119	188	165	183	266	171
12	MCN-19-12	DRMRCI 117	2329	1176	2341	1340	2661	2037	1733	1930	1886	174	123	121	185	159	176	209	167
13	MCN-19-13	RH 1799-24	3193	1624	2418	1772	3130	1945	2934	1579	2311	175	129	120	187	156	188	227	163
14	MCN-19-14	NPJ-232	2695	963	2623	1540	3284	1931	2506	1243	2023	178	133	125	191	150	169	274	168
15	MCN-19-15	SKM 1712	2563	1056	2495	1148	3158	2215	2280	1487	1987	166	140	122	186	159	178	227	169
16	MCN-19-16	HUJM-18-7	2601	1059	2263	1432	3054	2098	2210	1520	1996	177	140	121	173	154	190	251	161
17	MCN-19-17	BAUM-08-18	3251	1064	2623	1670	2726	2106	1589	1458	1981	177	138	124	187	168	170	225	162
18	MCN-19-18	PRB-15-2	2811	1558	2263	1800	2176	2096	1923	1522	1984	173	148	119	187	161	166	242	162
19	MCN-19-19	JM-14-2	2853	1224	2436	1306	2939	2152	2385	1512	2053	166	134	120	184	162	178	245	167
20	MCN-19-20	RMM-12-1-18	2587	1507	2315	1559	2512	1577	2528	1633	1986	176	141	118	188	155	176	275	170
21	MCN-19-21	KMR-19-4	2449	1073	2512	1370	2958	1717	2061	1219	1836	169	148	125	181	162	183	215	165
22	MCN-19-22	RGN 73 (LR)	3133	1285	2778	1810	3041	2027	2156	1415	2124	174	138	126	187	161	180	273	169
23	MCN-19-23	SKM 1621	3110	1176	2648	1362	3190	1941	2071	1630	2069	175	134	124	179	159	177	245	164
24	MCN-19-24	RH 1424	2822	1173	2469	1457	2844	1717	2145	1609	1967	178	144	120	180	160	183	267	167
		GM	2807	1269	2479	1610	2907	1898	2173	1541	<b>2029</b>								<b>179</b>
		C.D. (5%)	299	180	233	284	398	432	376	223									
		CV (%)	6.7	8.9	5.7	11.1	8.6	14.3	10.9	9.1									
		DOS	22.10.19	24.10.19	15.10.19	27.10.19	31.10.19	20.10.19	8.10.19	21.10.19									

# data of KPR centre excluded from computation of mean due to conduct of trial in RBD instead of alpha lattice design

**Table 2.3.11b. Performance of Indian mustard strains in IVT timely sown (irrigated ), Zone-III**

S.No.	Code	Strain	Days to Maturity								1000-Seed Wt. (g)							
			MOR	PNT	KPR	VAR	KOT	BND	JHS	DOL	MOR	PNT	KPR	VAR	KOT	BND	JHS	DOL
			1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
1	MCN-19-1	TM 172-1	118	124	137	110	129	145	131	129	5.2	2.4	4.9	4.2	5.0	3.8	4.4	5.2
2	MCN-19-2	KMR-19-3	129	140	135	142	136	147	132	136	4.6	3.2	4.7	4.5	5.2	4.8	4.7	5.2
3	MCN-19-3	RMM-12-2-18	125	137	134	144	132	146	133	131	3.4	2.6	4.9	4.3	4.0	3.5	4.1	4.4
4	MCN-19-4	Maya (ZC)	131	128	133	129	130	142	131	127	5.1	2.5	5.2	3.9	5.0	4.7	4.4	6.0
5	MCN-19-5	NPJ-231	124	125	137	126	128	145	131	130	4.8	2.7	5.0	5.1	4.9	4.3	4.7	5.8
6	MCN-19-6	DRMR 2018-25	123	135	135	133	129	143	135	131	4.6	2.4	4.8	4.1	5.7	4.7	4.6	4.7
7	MCN-19-7	PR-17-7	125	135	136	136	130	144	138	130	4.1	2.9	4.6	3.7	3.5	3.5	3.7	4.5
8	MCN-19-8	RGN-462	128	135	137	141	138	149	143	135	5.3	2.3	4.9	4.3	5.2	4.6	4.5	3.3
9	MCN-19-9	ACN-184	121	133	135	132	137	147	134	129	4.2	2.5	5.2	5.3	4.6	4.8	4.5	7.3
10	MCN-19-10	Kranti (NC)	120	125	134	135	130	145	134	129	4.0	2.9	5.4	4.7	4.0	5.4	4.0	4.5
11	MCN-19-11	AKMS-19-2	130	133	135	136	132	145	133	131	3.8	2.8	5.0	4.5	4.1	3.6	3.7	5.0
12	MCN-19-12	DRMRCI 117	128	132	136	135	131	145	139	131	3.6	2.4	5.0	5.5	5.0	4.1	4.0	7.3
13	MCN-19-13	RH 1799-24	126	136	135	136	135	145	134	133	6.0	3.5	5.1	5.1	5.2	5.2	4.6	5.5
14	MCN-19-14	NPJ-232	122	129	138	127	133	145	133	131	5.2	3.3	5.0	4.9	5.0	5.0	4.7	5.5
15	MCN-19-15	SKM 1712	124	125	135	129	131	145	132	128	5.0	3.0	5.4	5.3	5.3	4.8	4.3	5.9
16	MCN-19-16	HUJM-18-7	127	138	134	141	135	145	135	131	5.1	2.6	4.9	5.3	5.8	5.2	4.5	4.2
17	MCN-19-17	BAUM-08-18	125	133	138	127	134	146	142	131	4.3	2.6	4.7	5.1	4.9	4.3	4.3	5.0
18	MCN-19-18	PRB-15-2	129	134	133	136	135	147	136	128	5.7	3.5	4.6	5.5	5.7	5.6	4.6	6.1
19	MCN-19-19	JM-14-2	123	130	132	132	132	146	133	130	5.2	2.7	4.4	3.7	4.3	3.8	4.1	3.9
20	MCN-19-20	RMM-12-1-18	126	136	134	138	131	148	133	134	4.5	2.9	5.2	4.3	4.3	4.1	4.3	7.8
21	MCN-19-21	KMR-19-4	120	123	135	132	130	145	133	129	3.7	2.5	4.9	4.1	4.5	2.3	3.5	4.5
22	MCN-19-22	RGN 73 (LR)	127	135	137	136	133	146	133	135	4.4	2.7	5.0	4.7	4.2	3.6	4.0	5.8
23	MCN-19-23	SKM 1621	125	132	138	140	131	145	133	134	4.1	2.6	5.2	4.7	4.6	4.5	4.0	6.5
24	MCN-19-24	RH 1424	126	131	136	132	133	144	135	128	4.2	2.7	5.2	5.1	4.6	3.9	4.1	5.4
		GM								133								4.4

**Table2.3.12. Performance of Indian mustard strains in IVT timely sown (irrigated), Zone - IV**

S.No.	Code	Strain	Seed Yield (Kg/ha)					Plant Stand				Days to Maturity				1000- Seed Weight			
			SKN	NGP	MDR	WSM	Mean	SKN	NGP	MDR	WSM	SKN	NGP	MDR	WSM	SKN	NGP	MDR	WSM
			1	2	3	4	(1-4)	1	2	4	4	1	2	3	4	1	2	3	4
1	MCN-19-1	TM 172-1	2712	1544	1552	1755	<b>1891</b>	146	176	314	182	114	114	117	97	5.5	5.4	5	5.0
2	MCN-19-2	KMR-19-3	2915	2211	2399	871	<b>2099</b>	154	176	309	181	121	115	124	102	4.4	5.4	4.4	5.0
3	MCN-19-3	RMM-12-2-18	2930	1711	2252	1695	<b>2147</b>	149	176	306	168	122	115	120	98	3.7	5.2	3.8	4.0
<b>4</b>	<b>MCN-19-4</b>	<b>Bio 902(ZC)</b>	<b>3443</b>	<b>1805</b>	<b>2320</b>	<b>1610</b>	<b>2295</b>	<b>157</b>	<b>176</b>	<b>309</b>	<b>171</b>	<b>121</b>	<b>116</b>	<b>124</b>	<b>106</b>	<b>4.9</b>	<b>5.6</b>	<b>4.4</b>	<b>5.0</b>
<b>5</b>	<b>MCN-19-5</b>	<b>NPJ-231</b>	<b>3367</b>	<b>2190</b>	<b>2567</b>	<b>2047</b>	<b>2543</b> *	<b>152</b>	<b>172</b>	<b>307</b>	<b>169</b>	<b>116</b>	<b>115</b>	<b>120</b>	<b>98</b>	<b>4.6</b>	<b>5.3</b>	<b>4.7</b>	<b>4.0</b>
6	MCN-19-6	DRMR 2018-25	3405	2042	2627	1466	<b>2385</b>	157	172	311	176	117	115	124	100	4.8	5.4	4.6	5.0
7	MCN-19-7	PR-17-7	3247	1809	1944	964	<b>1991</b>	149	174	309	176	116	116	125	103	3.9	5.4	3.8	4.0
8	MCN-19-8	RGN-462	2781	2368	2413	2019	<b>2395</b>	153	178	309	166	121	114	125	107	4.4	5.1	6.5	4.0
9	MCN-19-9	ACN-184	3057	1770	2289	1073	<b>2047</b>	151	178	304	174	119	117	126	99	4.5	5.5	6.3	5.0
10	MCN-19-10	Kranti (NC)	3255	1724	2339	1617	<b>2234</b>	148	177	304	172	116	113	124	97	3.9	5.5	4	4.0
11	MCN-19-11	AKMS-19-2	2744	1547	2123	1148	<b>1890</b>	156	175	316	165	120	118	125	106	3.5	5.4	3.9	4.0
12	MCN-19-12	DRMRCI 117	3425	2018	2958	1365	<b>2441</b>	156	178	307	179	118	117	122	100	4.2	5.5	4.1	4.0
13	MCN-19-13	RH 1799-24	2286	1737	2706	1666	<b>2099</b>	147	176	314	178	120	119	126	106	4.8	5.9	5	4.7
14	MCN-19-14	NPJ-232	3055	1850	2368	1416	<b>2172</b>	148	179	305	174	117	116	128	98	4.8	6.0	5.6	4.7
15	MCN-19-15	SKM 1712	3094	1650	2449	1727	<b>2230</b>	158	175	312	179	117	115	125	105	4.6	5.0	4.8	4.0
16	MCN-19-16	HUJM-18-7	2972	1652	2257	1981	<b>2215</b>	145	179	306	170	121	119	125	98	5.1	6.2	5.1	5.0
17	MCN-19-17	BAUM-08-18	2973	1921	2394	1574	<b>2215</b>	144	176	306	168	117	116	126	97	4.5	5.6	4.5	4.0
18	MCN-19-18	PRB-15-2	2985	2002	2213	1062	<b>2066</b>	146	177	306	167	120	117	130	106	5.6	5.5	5.9	4.0
19	MCN-19-19	JM-14-2	3370	2106	2712	1451	<b>2410</b>	157	178	300	165	119	114	125	98	4.2	5.0	3.7	4.0
20	MCN-19-20	RMM-12-1-18	3024	1575	2419	1469	<b>2122</b>	140	180	308	168	119	118	129	102	3.9	5.5	4.3	4.0
21	MCN-19-21	KMR-19-4	3173	1728	2348	1166	<b>2104</b>	152	179	312	184	118	117	119	100	3.9	4.9	3.7	4.0
22	MCN-19-22	GDM 4 (LR)	3034	1655	2258	1135	<b>2020</b>	153	176	309	172	121	116	124	101	4.6	5.7	4.4	4.0
23	MCN-19-23	SKM 1621	3049	2128	2572	1388	<b>2284</b>	149	180	306	176	118	118	127	102	4.7	5.9	4.9	4.0
24	MCN-19-24	RH 1424	3255	1832	2285	1922	<b>2323</b>	158	178	310	176	118	118	124	98	4.1	5.5	3.9	4.0
		GM	3065	1857	2365	1483	<b>2192</b>				<b>202</b>				<b>115</b>				<b>4.7</b>
		CD (5%)	588	271.0	238	300													
		CV (%)	12.1	9.2	6.3	12.7													
		DOS	20.10.19	28.10.19	30.10.19	31.10.19													

\* Strain(s) outyielding the best check by a margin of > 10 percent seed yield



**Table 2.3.13. Performance of Indian mustard strains in AVT-I Timely sown (irrigated) Zone - I**

S.No.	Code	Strain	Seed Yield (Kg/ha)					Plant stand				Days to maturity				1000 Seed Wt. (g)		
			KNG\$	DLK\$	UNA\$	BJR\$	Mean#	KNG	DLK	UNA	BJR	KNG	DLK	UNA	BJR	KNG	UNA	BJR
			1	2	3	4	NA	1	2	3	4	1	2	3	4	1	3	4
1	MCN 19-25	RH 1676	1240	923	966	1072	<b>1050</b>	337	340	343	344	157	136	133	176	4.7	4.3	3.1
2	MCN 19-26	SKM 1626	1115	899	855	1086	<b>989</b>	344	340	343	345	156	137	128	175	5.1	5.4	4.2
3	MCN 19-27	RCC 4 (ZC)	1202	887	905	927	<b>980</b>	348	336	342	347	156	139	132	177	5.2	5.2	3.1
4	MCN 19-28	RGN 443	1189	947	948	911	<b>999</b>	345	338	342	346	156	136	130	179	4.3	4.3	3.9
5	MCN 19-29	PBR 385	1045	798	968	953	<b>941</b>	348	337	339	348	156	137	133	177	4.0	4.1	3.9
<b>6</b>	<b>MCN 19-30</b>	<b>Giriraj (LR)</b>	<b>1205</b>	<b>1006</b>	<b>966</b>	<b>953</b>	<b>1033</b>	<b>348</b>	<b>341</b>	<b>342</b>	<b>347</b>	<b>156</b>	<b>134</b>	<b>129</b>	<b>176</b>	<b>4.8</b>	<b>5.0</b>	<b>3.5</b>
7	MCN 19-31	Kranti (NC)	980	958	908	721	<b>892</b>	350	337	341	345	160	132	132	177	4.7	4.4	3.1
8	MCN 19-32	PR 2016-8	1048	738	1005	863	<b>914</b>	351	338	342	347	160	135	130	181	3.3	3.4	3.6
9	MCN 19-33	Filler (Giriraj)	930	768	851	875	<b>856</b>	349	335	344	347	159	134	134	177	3.4	3.4	4.0
10	MCN 19-34	PR 2016-4	979	709	879	869	<b>859</b>	347	338	343	347	162	134	134	175	4.9	4.8	5.2
11	MCN 19-35	DRMR 2017-16	980	959	969	1076	<b>996</b>	349	336	342	347	162	139	135	182	4.4	4.6	4.6
		GM	<b>1083</b>	<b>872</b>	<b>929</b>	<b>937</b>												
		CD (5%)	114	142	86	77												
		CV (%)	7.3	11.3	6.4	5.7												
		DOS	14.10.19	26.10.19	31.10.19	24.10.19												

\$ data of KNG, DLK, UNA, and BJR excluded from computation of mean due to significant differences between same genotype used as check/filler

# Mean Non Applicable

**Table 2.3.14a. Performance of Indian mustard strains in AVT-I+AHT 1 Timely sown (irrigated) Zone - II**

S.No.	Code	Strain	Seed Yield (Kg/ha)							Plant Stand				
			LDH	HSR	SGN	MOD§	NDH	CTH	Mean	LDH	HSR	SGN	NDH	CTH
			1	2	3	4	5	6	(1-3,5-6)	1	2	3	5	6
1	MCN 19-36	7IJ0003 (Hybrid)	2251	3546	3145	2559	3031	1934	<b>2781</b>	284	260	320	<b>254</b>	264
<b>2</b>	<b>MCN 19-37</b>	<b>DMH 1 (Hybrid Check)</b>	<b>2423</b>	<b>3833</b>	<b>3190</b>	<b>2032</b>	<b>2674</b>	<b>2111</b>	<b>2846</b>	<b>289</b>	<b>262</b>	<b>330</b>	<b>269</b>	<b>261</b>
3	MCN 19-38	RH 1676	2298	3695	2729	2282	2786	1886	<b>2679</b>	284	259	300	243	262
4	MCN 19-39	Filler (RH 749)	2292	3308	2582	2944	2888	1897	<b>2593</b>	292	260	325	245	260
5	MCN 19-40	RH 749 (ZC)	2291	3363	2622	3206	2963	1942	<b>2636</b>	286	258	314	243	271
6	MCN 19-41	SVJH 108 (Hybrid)	1858	3533	2427	2647	3363	1694	<b>2575</b>	294	259	316	<b>231</b>	269
<b>7</b>	<b>MCN 19-42</b>	<b>Giriraj (LR)</b>	<b>2258</b>	<b>3307</b>	<b>2917</b>	<b>2311</b>	<b>3187</b>	<b>1708</b>	<b>2675</b>	<b>285</b>	<b>265</b>	<b>300</b>	<b>258</b>	<b>264</b>
8	MCN 19-43	Kranti (NC)	2242	3103	2511	2371	3146	1751	<b>2551</b>	288	260	298	260	261
9	MCN 19-44	NRCHB 506 Hybrid Check)	1863	3336	2839	2114	2857	1725	<b>2524</b>	282	257	301	266	260
10	MCN 19-45	8IJ1004 (Hybrid)	2337	3658	2897	3087	2878	1862	<b>2726</b>	286	262	295	251	268
		GM	<b>2211</b>	<b>3468</b>	<b>2786</b>	<b>2555</b>	<b>2977</b>	<b>1851</b>	<b>2659</b>					<b>275</b>
		CD (5%)	269	397.0	266	131	342	245						
		CV (%)	8.4	7.9	6.6	3.5	7.9	9.1						
		DOS	23.10.19	11.10.19	25.10.19	6.10.19	10.10.19	23.10.19						

§ data of MOD excluded from computation of mean due to significant differences between same genotype used as check/filler and low CV

**Table2.3.14b. Performance of Indian mustard strains in AVT-I+AHT-I Timely sown irrigated Zone - II**

S.No.	Code	Strain	Days to Maturity						1000- Seed Wt. (g)				
			LDH	HSR	SGN	MOD\$	NDH	CTH	LDH	HSR	SGN	NDH	CTH
			1	2	3	4	5	6	1	2	3	5	6
1	MCN 19-36	7IJ0003 (Hybrid)	143	151	153	145	142	147	3.8	4.9	3.8	<b>5.0</b>	3.2
<b>2</b>	<b>MCN 19-37</b>	<b>DMH 1 (Hybrid Check)</b>	<b>141</b>	<b>154</b>	<b>155</b>	<b>150</b>	<b>139</b>	<b>149</b>	<b>3.1</b>	<b>3.8</b>	<b>3.8</b>	<b>3.8</b>	<b>4.1</b>
3	MCN 19-38	RH 1676	146	154	156	151	147	145	4.8	6.2	5.2	5.8	4.2
4	MCN 19-39	Filler (RH 749)	143	155	151	148	147	147	5.8	6.3	5.0	6.2	4.1
5	MCN 19-40	RH 749 (ZC)	145	153	149	148	147	150	5.8	6.1	5.0	6.3	5.2
6	MCN 19-41	SVJH 108 (Hybrid)	139	150	150	150	141	147	6.0	6.3	4.8	<b>6.5</b>	4.5
<b>7</b>	<b>MCN 19-42</b>	<b>Giriraj (LR)</b>	<b>141</b>	<b>149</b>	<b>148</b>	<b>146</b>	<b>148</b>	<b>150</b>	<b>5.3</b>	<b>6.2</b>	<b>4.8</b>	<b>6.4</b>	<b>4.8</b>
8	MCN 19-43	Kranti (NC)	142	151	153	147	141	148	3.9	4.4	3.8	4.6	3.5
9	MCN 19-44	NRCHB 506 Hybrid Check)	141	154	154	149	143	146	3.6	5.2	4.4	5	5.1
10	MCN 19-45	8IJ1004 (Hybrid)	140	151	156	144	141	144	4.0	4.8	4.6	5	3.9
		GM						<b>148</b>					<b>4.8</b>

**Table 2.3.15a. Performance of Indian mustard strains in AVT-I Timely sown (irrigated) Zone - III**

S.No.	Code	Strain	Seed Yield (Kg/ha)									Plant Stand							
			KPR	PNT	MOR	KOT§	VAR	BND	DOL	JHS	Mean	KPR	PNT	MOR	KOT	VAR	BND	DOL	JHS
			1	2	3	4	5	6	7	8	(1-3,5-8)	1	2	3	4	5	6	7	8
1	MCN 19-46	Maya (ZC)	2092	1208	3211	2439	1519	1409	1363	1960	<b>1823</b>	210	218	352	287	388	372	335	342
2	MCN 19-47	SKM 1626	1943	1510	2310	2708	1919	1695	1826	2413	<b>1945</b>	200	233	335	288	390	385	330	360
3	MCN 19-48	RH 1584	2191	1624	2621	2768	1965	1840	1936	2098	<b>2039</b>	216	277	350	284	408	366	332	348
4	MCN 19-49	Filler (RGN 73)	2141	1677	2670	2850	1863	1609	1576	2049	<b>1941</b>	205	284	348	296	394	362	336	385
<b>5</b>	<b>MCN 19-50</b>	<b>RGN 73 (LR)</b>	<b>2141</b>	<b>1762</b>	<b>2581</b>	<b>2899</b>	<b>1837</b>	<b>1587</b>	<b>1604</b>	<b>2287</b>	<b>1971</b>	<b>212</b>	<b>281</b>	<b>346</b>	<b>286</b>	<b>392</b>	<b>381</b>	<b>329</b>	<b>356</b>
6	MCN 19-51	Kranti (NC)	2348	1289	2657	2291	1807	1369	1477	1987	<b>1848</b>	211	271	340	292	392	388	331	331
		GM	2153	1512	2675	2659	1818	1585	1630	2132	<b>1928</b>								<b>324</b>
		CD (5%)	231	241	242	598	401	478	214	327									
		CV (%)	7.2	10.6	6.0	14.9	9.3	19.9	8.6	10.2									
		DOS	15.10.19	24.10.19	21.10.19	31.10.19	28.10.19	20.10.19	17.10.19	30.10.19									

§ data of KOT centre excluded from computation of mean on the recommendation of monitoring team

**Table2.3.15b. Performance of Indian mustard strains in AVT-I Timely sown irrigated Zone - III**

S.No.	Code	Strain	Days to Maturity								1000 Seed Wt. (g)							
			KPR	PNT	MOR	KOT	VAR	BND	DOL	JHS	KPR	PNT	MOR	KOT	VAR	BND	DOL	JHS
			1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
1	MCN 19-46	Maya (ZC)	135	118	127	131	134	137	125	141	5.0	2.3	4.9	5.4	5.0	4.5	4.8	4.2
2	MCN 19-47	SKM 1626	132	133	129	136	135	144	127	141	5.0	2.5	6.1	5.6	5.5	4.9	4.6	4.7
3	MCN 19-48	RH 1584	130	125	130	133	138	144	132	140	5.3	2.2	5.3	4.8	5.5	4.2	4.6	4.1
4	MCN 19-49	Filler (RGN 73)	134	134	125	136	138	145	133	138	4.8	2.1	4.4	4.7	5.0	3.9	4.9	4.0
5	<b>MCN 19-50</b>	<b>RGN 73 (LR)</b>	<b>133</b>	<b>135</b>	<b>123</b>	<b>133</b>	<b>140</b>	<b>144</b>	<b>133</b>	<b>138</b>	<b>4.9</b>	<b>2.6</b>	<b>3.7</b>	<b>4.8</b>	<b>4.9</b>	<b>3.9</b>	<b>5.4</b>	<b>4.1</b>
6	MCN 19-51	Kranti (NC)	136	124	121	129	134	140	127	140	4.5	2.1	3.7	4.3	5.2	3.8	5.5	3.8
		GM								<b>134</b>								<b>4.3</b>

**Table-2.3.16a. Performance of Indian mustard strains in IVT timely sown (rainfed), Zone - II**

S.No.	Code	Strain	Seed Yield (Kg/ha)						Plant Stand				
			HSR	SGN	LDH	BAW#	ABR	Mean	HSR	SGN	LDH	BAW#	ABR
			1	2	3	4	5	(1-3, 5)	1	2	3	4	5
1	MCNR-19-1	DRMRCI 118	2711	2329	2049	2583	1565	<b>2164</b>	117	180	126	196	114
2	MCNR-19-2	Kranti (NC)	2758	2655	2227	2649	1127	<b>2192</b>	114	178	136	191	118
3	MCNR-19-3	TM 258	2057	2081	1550	1756	846	<b>1634</b>	122	175	130	193	118
<b>4</b>	<b>MCNR-19-4</b>	<b>RH 0725 (LR)</b>	<b>3459</b>	<b>2681</b>	<b>2069</b>	<b>3005</b>	<b>1447</b>	<b>2414</b>	<b>118</b>	<b>185</b>	<b>118</b>	<b>193</b>	<b>115</b>
5	MCNR-19-5	NPJ-233	2738	2204	1823	2420	1595	<b>2090</b>	117	180	130	190	114
6	MCNR-19-6	RGN-472	2943	2767	2275	2415	1428	<b>2353</b>	117	175	137	186	116
7	MCNR-19-7	DRMRHT 19-2815	2463	2374	1642	2212	1469	<b>1987</b>	119	178	130	177	119
8	MCNR-19-8	TM 263-3	2652	2207	2186	1617	1270	<b>2079</b>	117	186	122	183	113
9	MCNR-19-9	RB 106	2313	2296	2066	2385	1518	<b>2048</b>	116	180	136	176	122
10	MCNR-19-10	BAUM-08-18	2675	2641	2120	2111	1003	<b>2110</b>	117	150	131	181	111
11	MCNR-19-11	RH 1653	3452	2644	1640	2877	1891	<b>2407</b>	115	155	132	176	115
12	MCNR-19-12	DRMRSJ-47	2935	2629	2246	2681	1573	<b>2346</b>	117	170	127	179	118
13	MCNR-19-13	RGN-471	3018	2825	2029	2667	1129	<b>2250</b>	114	155	127	180	117
14	MCNR-19-14	PBR-385	3365	2729	1703	2457	1213	<b>2253</b>	117	180	132	182	120
15	MCNR-19-15	CAU-RM 4-1	2746	2626	1900	2180	1160	<b>2108</b>	116	182	123	180	116
16	MCNR-19-16	RGN 229 (ZC)	2719	2400	1502	2556	1125	<b>1936</b>	115	175	129	181	120
17	MCNR-19-17	DRMRHJ 503	2589	2714	2085	2407	1392	<b>2195</b>	116	170	143	191	120
18	MCNR-19-18	NPJ-234	2719	2403	1906	2284	1314	<b>2085</b>	118	150	133	180	121
19	MCNR-19-19	RH 1799-24	3396	2777	2058	2844	1311	<b>2386</b>	115	150	114	178	117
20	MCNR-19-20	Filler (RB-50)	2801	2537	2198	2296	790	<b>2082</b>	117	160	124	185	121
21	MCNR-19-21	RB 108	2774	2674	2088	2099	928	<b>2116</b>	116	165	132	175	117
22	MCNR-19-22	CAU-RM 5-1	2344	2192	2061	2420	1066	<b>1916</b>	119	170	135	175	116
		GM	<b>2801</b>	<b>2518</b>	<b>1974</b>	<b>2405</b>	<b>1280</b>	<b>2143</b>					<b>133</b>
		CD (5%)	568	323	397	370	285						
		CV (%)	12.3	7.8	12.2	9.3	14.0						
		DOS	13.10.2019	24.10.2019	10.10.2019	18.10.2019	25.10.2019						

# data of BAW centre excluded from computation of mean on the recommendation of monitoring team

**Table 2.3.16b. Performance of Indian mustard strains in IVT timely sown (rainfed), Zone - II**

S.No.	Code	Strain	Days to Maturity					1000 - Seed Weight (g)				
			HSR	SGN	LDH	BAW#	ABR	HSR	SGN	LDH	BAW	ABR
			1	2	3	4	5	1	2	3	4	5
1	MCNR-19-1	DRMRCI 118	150	153	147	147	142	5.0	4.6	5.9	5.3	5.3
2	MCNR-19-2	Kranti (NC)	142	150	146	143	138	4.4	4.4	5.2	4.4	4.3
3	MCNR-19-3	TM 258	153	155	146	149	140	6.1	3.6	6.0	6.3	4.5
<b>4</b>	<b>MCNR-19-4</b>	<b>RH 0725 (LR)</b>	<b>142</b>	<b>148</b>	<b>144</b>	<b>144</b>	<b>141</b>	<b>6.2</b>	<b>5.4</b>	<b>5.8</b>	<b>5.9</b>	<b>5.1</b>
5	MCNR-19-5	NPJ-233	141	147	141	142	134	6.3	5.4	6.4	5.7	5.2
6	MCNR-19-6	RGN-472	146	153	149	146	143	4.9	4.4	5.8	4.9	5.1
7	MCNR-19-7	DRMRHT 19-2815	146	151	145	144	142	5.6	5.6	5.8	4.8	5.0
8	MCNR-19-8	TM 263-3	143	149	146	144	133	6.6	4.0	6.2	6.4	5.5
9	MCNR-19-9	RB 106	151	152	147	148	144	5.0	5.0	6.2	4.3	4.4
10	MCNR-19-10	BAUM-08-18	149	152	143	145	140	5.1	5.2	6.1	4.6	4.8
11	MCNR-19-11	RH 1653	144	155	143	145	134	5.7	6.0	6.0	5.2	5.1
12	MCNR-19-12	DRMRSJ-47	140	154	142	144	134	5.7	5.4	5.8	5.2	5.3
13	MCNR-19-13	RGN-471	146	152	144	145	143	5.3	4.4	5.3	4.3	4.8
14	MCNR-19-14	PBR-385	151	153	152	149	141	5.1	5.2	5.6	4.4	5.0
15	MCNR-19-15	CAU-RM 4-1	139	155	144	141	138	4.3	6.2	4.5	4.0	4.9
16	MCNR-19-16	RGN 229 (ZC)	152	158	148	149	146	4.8	4.8	5.1	4.2	5.2
17	MCNR-19-17	DRMRHJ 503 (Hybrid)	145	153	145	144	138	5.1	5.2	5.8	5.0	5.3
18	MCNR-19-18	NPJ-234	140	149	143	144	133	6.3	4.8	5.6	5.7	4.8
19	MCNR-19-19	RH 1799-24	146	154	144	146	137	6.2	3.2	6.0	6.5	5.7
20	MCNR-19-20	Filler (RB-50)	152	156	147	149	141	6.2	5.2	5.5	6.2	6.3
21	MCNR-19-21	RB 108	139	146	143	142	133	4.3	4.8	5.2	4.2	4.4
22	MCNR-19-22	CAU-RM 5-1	138	153	142	142	134	4.6	3.8	5.0	5.0	5.0
		<b>GM</b>					<b>145</b>					<b>5.2</b>

**Table 2.3.17. Performance of Indian mustard strains in IVT timely sown (rainfed), Zone - V**

S.No.	Code	Strain	Seed Yield (Kg/ha)					Plant Stand				Days to Maturity					1000-Seed Wt. (g)					
			IMP	SHL	BHU	JAG	KNK	Mean	IMP	BHU	JAG	KNK	IMP	SHL	BHU	JAG	KNK	IMP	SHL	BHU	JAG	KNK
			1	2	3	4	5	(1-5)	1	2	3	4	1	2	3	4	5	1	2	3	4	5
1	MCNR-19-1	DRMRCI 118	1654	887	1079	1191	1400	<b>1242</b>	205	130	219	187	119	120	105	118	124	5.4	3.9	4.1	5.2	4.3
2	MCNR-19-2	Kranti (NC)	1235	1007	777	1152	1432	<b>1121</b>	213	125	212	187	117	118	104	116	119	4.6	3.2	3.7	5.4	3.6
3	MCNR-19-3	TM 258	1215	948	915	1143	1453	<b>1135</b>	212	129	272	186	119	118	100	116	126	5.1	3.8	3.9	5.4	4.2
4	MCNR-19-4	DRMR 150-35 (LR)	1254	781	801	1389	1444	<b>1134</b>	224	128	160	192	117	118	103	112	121	5.2	3.3	3.9	5.1	4.3
5	MCNR-19-5	NPJ-233	1442	559	747	888	1340	<b>995</b>	226	124	208	186	117	118	98	112	120	5.6	4.0	3.5	6.0	4.4
6	MCNR-19-6	RGN-472	1363	872	1253	963	1406	<b>1171</b>	214	134	221	185	118	116	103	112	123	4.2	3.2	4.5	5.3	3.9
7	MCNR-19-7	DRMRHT 19-2815	1427	810	1353	1304	1311	<b>1241</b>	188	136	227	194	119	118	100	116	122	4.9	3.4	4.5	5.2	4.5
8	MCNR-19-8	TM 263-3	1556	892	934	1330	1178	<b>1178</b>	184	129	238	192	118	120	98	118	119	5.3	4.0	4	5.4	4.3
9	MCNR-19-9	RB 106	1630	698	877	1003	1374	<b>1116</b>	230	127	226	192	118	118	103	116	121	4.5	3.5	3.9	5.6	4.5
10	MCNR-19-10	BAUM-08-18	1210	781	890	1380	1340	<b>1120</b>	219	129	242	185	117	118	100	112	120	4.4	3.1	4	4.0	4.1
11	MCNR-19-11	RH 1653	1151	816	763	940	1424	<b>1019</b>	223	125	189	184	117	120	100	116	120	5.0	4.2	3.7	4.0	4.8
12	MCNR-19-12	DRMRSJ-47	1388	877	832	1831	1238	<b>1233</b>	224	128	222	195	115	118	100	112	121	5.9	3.8	3.9	4.1	4.9
13	MCNR-19-13	RGN-471	1249	998	795	972	1256	<b>1054</b>	216	127	197	190	115	118	101	115	123	4.3	3.5	4.1	3.9	4.8
14	MCNR-19-14	PBR-385	1269	737	1276	1080	1444	<b>1161</b>	223	134	213	183	118	118	103	116	124	4.0	3.7	4.3	4.0	3.4
15	MCNR-19-15	CAU-RM 4-1	1299	807	767	965	1493	<b>1066</b>	226	129	228	190	116	120	98	116	117	4.3	3.3	3.5	4.4	4.5
<b>16</b>	<b>MCNR-19-16</b>	<b>NRCHB 101 (ZC)</b>	<b>1289</b>	<b>868</b>	<b>928</b>	<b>1219</b>	<b>1751</b>	<b>1211</b>	<b>215</b>	<b>131</b>	<b>189</b>	<b>189</b>	<b>115</b>	<b>114</b>	<b>98</b>	<b>116</b>	<b>116</b>	<b>5.6</b>	<b>4.2</b>	<b>3.8</b>	<b>4.1</b>	<b>3.3</b>
17	MCNR-19-17	DRMRHJ 503 (Hyd)	1526	915	912	1546	1432	<b>1266</b>	225	130	213	188	116	114	103	116	120	4.8	4.0	3.9	4.0	4.7
18	MCNR-19-18	NPJ-234	1541	598	754	765	1345	<b>1001</b>	202	128	194	183	117	114	99	116	120	5.5	4.3	3.5	3.8	4.3
19	MCNR-19-19	RH 1799-24	1452	937	1152	985	1400	<b>1185</b>	217	133	196	187	118	114	103	109	116	4.9	4.4	4.2	5.1	4.8
20	MCNR-19-20	Filler (RB-50)	1348	729	969	1022	1389	<b>1091</b>	224	131	213	189	120	118	105	109	125	5.3	3.9	3.9	4.1	4.7
21	MCNR-19-21	RB 108	1146	903	1063	1115	1499	<b>1145</b>	185	131	204	184	115	118	97	105	118	4.4	3.0	4.1	4.9	5.5
22	MCNR-19-22	CAU-RM 5-1	1200	1113	923	838	1400	<b>1095</b>	210	130	205	189	114	118	99	105	119	4.2	3.5	4	4.0	3.8
		GM	<b>1455</b>	<b>842</b>	<b>944</b>	<b>1137</b>	<b>1398</b>	<b>1155</b>					<b>186</b>					<b>114</b>				<b>4.3</b>
		CD (5%)	310	236	86	197	178															
		CV (%)	13.9	17.7	5.5	10.9	<b>7.6</b>															
		DOS	21.11.19	5.11.19	22.11.19	6.12.19	21.11.19															



**Table-2.3.18. Performance of Indian mustard strains in AVT I Timely sown (Rainfed), Zone - II**

S.No.	Code	Strain	Seed Yield (Kg/ha)					Plant Stand				Days to maturity				1000 Seed Weight (g)				
			HSR	SGN	LDH	BAW	Mean	HSR	SGN	LDH	BAW	HSR	SGN	LDH	BAW	HSR	SGN	LDH	BAW	
			1	2	3	4	(1-2)	1	2	3	4	1	2	3	4	1	2	3	4	
1	MCNR-19-23	RH 725 (LR)	3237	2547	1686	2844	2892	256	305	262	303	151	151	151	149	6.0	4.6	5.8	5.7	
2	MCNR-19-24	RH 1424	3688	2224	2040	3167	2956	264	320	279	319	140	150	149	142	5.3	4.2	4.9	4.5	
3	MCNR-19-25	Filler ( RH 725)	3239	2891	2003	2782	3065	257	325	274	290	150	153	151	149	6.0	3.8	6.3	5.8	
4	MCNR-19-26	Kranti (NC)	2916	2232	2225	2549	2574	262	315	298	281	140	150	150	142	5.0	4.6	4.8	4.2	
5	MCNR-19-27	RGN 229 (ZC)	2876	2335	2089	2369	2606	257	290	269	280	152	156	155	150	5.6	4.2	4.9	4.5	
		GM	3191	2446	2009	2742	2819				285				149				4.9	
		CD (5%)	477	461	310	397														
		CV (%)	9.6	12.2	10	9.3														
		DOS	13.10.19	24.10.19	10.10.19	18.10.19														

\$ data of BAW centre excluded from computation of mean on the basis of recommendation of monitoring team

\$ data of LDH centre excluded from computation of mean due to significant differences between same genotype used check/filler

**Table 2.3.19. Performance of Indian mustard strains in IVT Late sown (irrigated) Zone - II**

S.No.	Code	Strain	Seed Yield (Kg/h)					Plant Stand				Days to Maturity				1000-Seed Wt. (g)			
			HSR	LDH	SGN	NDH	Mean	HSR	LDH	SGN	NDH	HSR	LDH	SGN	NDH	HSR	LDH	SGN	NDH
			1	2	3	4	(1-4)	1	2	3	4	1	2	3	4	1	2	3	4
1	MCNL-19-1	PRL-17-5	1720	1790	1977	1609	<b>1774</b>	125	122	160	144	139	159	140	129	3.9	4.3	4.2	2.8
2	MCNL-19-2	HUJM-18-9	1820	1425	2121	1646	<b>1753</b>	124	128	156	141	138	155	139	136	3.9	4.4	3.6	2.7
3	MCNL-19-3	PBR-396	1820	1636	2327	1690	<b>1868</b>	122	131	162	136	138	158	142	134	3.8	3.5	3.8	2.3
4	MCNL-19-4	KMR(L) 19-6	1300	1427	1527	1349	<b>1401</b>	124	128	165	138	140	158	139	138	4.1	3.6	4.0	3.3
5	MCNL-19-5	Pusa Mustard 26 (ZC)	2004	1172	2294	1727	<b>1799</b>	122	121	172	140	137	157	138	117	3.6	3.8	4.0	2.3
6	MCNL-19-6	RGN-463	1755	2060	2588	1416	<b>1955</b>	128	121	174	135	140	161	134	136	3.7	4.3	3.6	2.3
7	MCNL-19-7	NPJ-236	2015	1627	2105	1842	<b>1897</b>	126	132	180	137	142	159	132	123	4.3	4.4	5.4	3.8
8	MCNL-19-8	RH 1599-44	1921	1619	2066	1430	<b>1759</b>	125	132	182	138	138	158	136	127	3.9	4.0	3.8	2.3
9	MCNL-19-9	DRMRHT 19-283	1897	1932	2432	1450	<b>1928</b>	122	123	174	134	138	159	138	132	4.7	5.2	4.4	3.3
10	MCNL-19-10	DRMR 2017-26	1939	1609	1966	1842	<b>1839</b>	128	124	170	143	141	156	127	123	3.9	4.1	3.8	2.8
11	MCNL-19-11	KMR(L) 19-5	1643	1402	1874	1446	<b>1591</b>	128	125	176	136	139	160	138	130	3.3	3.3	3.4	2.2
12	MCNL-19-12	Kranti(NC)	1714	1138	1866	1488	<b>1551</b>	126	121	180	139	139	163	129	125	3.4	3.6	3.8	1.9
13	MCNL-19-13	RGN-476	1537	1323	1916	1383	<b>1540</b>	126	125	160	136	137	158	127	128	3.5	3.9	3.8	2.6
14	MCNL-19-14	NPJ-235	2169	1244	2344	1971	<b>1932</b>	129	133	164	136	140	154	126	118	4.2	4.5	4.6	3.2
15	MCNL-19-15	RH 1899-40	2074	1401	1910	1484	<b>1717</b>	126	136	166	140	140	159	138	129	4.3	4.9	3.2	3.3
16	MCNL-19-16	TM 134	1826	1081	1483	1408	<b>1450</b>	126	126	162	153	140	155	133	136	4.8	3.8	5.2	3.4
17	MCNL-19-17	MCB 1-2-3-2-4	1365	1638	1616	1322	<b>1485</b>	126	126	170	151	142	160	134	144	3.4	3.6	4.6	2.9
18	MCNL-19-18	DRMRCI 115	1773	1435	2638	1625	<b>1868</b>	123	126	162	130	138	156	131	121	4.3	3.8	4.4	3.2
19	MCNL-19-19	PRL-16-5	1460	1451	1599	1284	<b>1448</b>	126	120	164	142	137	163	132	131	3.4	3.6	3.6	2.2
<b>20</b>	<b>MCNL-19-20</b>	<b>RGN 236 (LR)</b>	<b>1696</b>	<b>1706</b>	<b>2488</b>	<b>1452</b>	<b>1835</b>	<b>127</b>	<b>128</b>	<b>172</b>	<b>137</b>	<b>139</b>	<b>160</b>	<b>133</b>	<b>129</b>	<b>4.0</b>	<b>4.0</b>	<b>4.4</b>	<b>2.2</b>
		GM	<b>1772</b>	<b>1506</b>	<b>2057</b>	<b>1543</b>	<b>1720</b>				<b>140</b>				<b>140</b>				<b>3.7</b>
		CD (5%)	337	345	307	309													
		CV (%)	11.5	13.9	9.0	12.6													
		DOS	15.11.2019	22.11.2019	21.11.2019	18.11.2019													

**Table 2.3.20a. Performance of Indian mustard strains in IVT Late Sown (Irrigated) Zone - III**

S.No.	Code	Strain	Seed Yield (Kg/ha)							Plant Stand					
			MOR	PNT	KPR	VAR	DOL	SBR	Mean	MOR	PNT	KPR	VAR	DOL	SBR
			1	2	3	4	5	6	(1-6)	1	2	3	4	5	6
1	MCNL-19-1	PRL-17-5	2167	1222	1723	1545	1463	1835	<b>1659</b>	173	159	124	172	167	182
2	MCNL-19-2	HUJM-18-9	2191	1508	1878	1683	1685	1821	<b>1794</b>	172	179	127	179	166	181
3	MCNL-19-3	PBR-396	2119	1547	1929	1468	1420	1833	<b>1719</b>	172	114	123	187	166	180
4	MCNL-19-4	KMR(L) 19-6	2215	1297	1698	1345	1068	1770	<b>1565</b>	174	161	120	179	166.3	183
<b>5</b>	<b>MCNL-19-5</b>	<b>NRCHB 101 (ZC)</b>	<b>2143</b>	<b>1347</b>	<b>1878</b>	<b>1560</b>	<b>1932</b>	<b>2569</b>	<b>1905</b>	<b>178</b>	<b>139</b>	<b>117</b>	<b>184</b>	<b>166.3</b>	<b>178</b>
6	MCNL-19-6	RGN-463	2070	1346	1723	1344	1389	1823	<b>1616</b>	168	157	118	181	164.3	180
7	MCNL-19-7	NPJ-236	2576	1086	1569	1404	1444	1727	<b>1634</b>	173	134	117	182	163.3	182
8	MCNL-19-8	RH 1599-44	1733	978	1698	1444	1407	2197	<b>1576</b>	178	140	119	177	166.3	181
<b>9</b>	MCNL-19-9	DRMRHT 19-283	2624	1167	1595	1879	1605	1713	<b>1764</b>	173	144	119	171	166.7	177
10	MCNL-19-10	DRMR 2017-26	2865	1189	1826	1831	1407	2263	<b>1897</b>	175	127	122	182	162.3	178
11	MCNL-19-11	KMR(L) 19-5	2407	961	1620	1611	1111	1910	<b>1604</b>	174	146	125	187	168	181
12	MCNL-19-12	Kranti(NC)	2118	911	1929	1684	1346	1941	<b>1655</b>	176	157	125	177	163	178
13	MCNL-19-13	RGN-476	2046	919	1723	1172	1247	1459	<b>1428</b>	175	156	120	180	166	180
14	MCNL-19-14	NPJ-235	2432	1133	1749	1003	1500	1915	<b>1622</b>	174	137	122	186	164.7	178
15	MCNL-19-15	RH 1899-40	2432	1354	1723	1192	1438	2164	<b>1717</b>	173	140	119	178	164	178
16	MCNL-19-16	TM 134	1492	1089	1672	1041	1216	1146	<b>1276</b>	179	122	120	173	166	179
17	MCNL-19-17	MCB 1-2-3-2-4	1758	1725	1929	1421	1074	1458	<b>1561</b>	175	122	124	185	165.3	178
18	MCNL-19-18	DRMRCI 115	2648	1164	1595	1374	1358	2361	<b>1750</b>	177	130	121	181	164.7	178
19	MCNL-19-19	PRL-16-5	1733	1231	1800	1360	1358	1509	<b>1499</b>	169	147	125	190	165.7	181
<b>20</b>	MCNL-19-20	CS 56 (LR)	1854	1204	1723	1740	1642	1946	<b>1685</b>	167	109	124	187	165	177
		GM	<b>2181</b>	<b>1219</b>	<b>1749</b>	<b>1455</b>	<b>1406</b>	<b>1868</b>	<b>1646</b>						<b>160</b>
		CD (5%)	248	222	377	279	263	321							
		CV (%)	7.1	11.0	13.5	12.6	11.3	10.4							
		DOS	17.11.19	15.11.19	18.11.19	15.11.19	21.11.19	19.11.19							

**Table 2.3.20b. Performance of Indian mustard strains in IVT Late Sown (Irrigated) Zone - III**

S.No.	Code	Strain	Days to Maturity						1000-Seed Wt.(g)					
			MOR	PNT	KPR	VAR	DOL	SBR	MOR	PNT	KPR	VAR	DOL	SBR
			1	2	3	4	5	6	1	2	3	4	5	6
1	MCNL-19-1	PRL-17-5	125	135	125	121	115	113	4.2	2.6	4.1	5.4	4.1	3.1
2	MCNL-19-2	HUJM-18-9	124	138	127	122	116	114	4.8	2.4	4.2	5.0	4.3	3.5
3	MCNL-19-3	PBR-396	126	136	129	122	118	114	4.5	2.4	4.2	5.2	4.0	3.4
4	MCNL-19-4	KMR(L) 19-6	128	136	126	121	115	113	4.7	2.5	3.5	4.8	4.7	3.5
<b>5</b>	<b>MCNL-19-5</b>	<b>NRCHB 101 (ZC)</b>	<b>121</b>	<b>132</b>	<b>125</b>	<b>114</b>	<b>110</b>	<b>107</b>	<b>4.1</b>	<b>2.6</b>	<b>4.3</b>	<b>6.2</b>	<b>5.2</b>	<b>3.7</b>
6	MCNL-19-6	RGN-463	132	122	121	121	117	114	4.8	2.2	3.8	4.8	5.4	3.2
7	MCNL-19-7	NPJ-236	125	135	124	113	110	107	3.8	2.5	4.2	5.4	3.9	4.2
8	MCNL-19-8	RH 1599-44	124	133	126	118	114	108	4.1	2.3	4.3	5.0	4.4	3.5
9	MCNL-19-9	DRMRHT 19-283	126	136	122	121	116	113	4.6	2.7	4.0	6.0	4.9	3.9
10	MCNL-19-10	DRMR 2017-26	123	130	127	117	116	109	4.3	2.4	4.0	5.0	4.3	3.5
11	MCNL-19-11	KMR(L) 19-5	126	122	123	121	114	112	2.5	2.4	4.0	3.6	4.9	2.7
12	MCNL-19-12	Kranti(NC)	125	128	128	114	115	108	4.8	2.1	4.1	4.6	4.8	2.9
13	MCNL-19-13	RGN-476	122	136	124	121	115	114	3.1	3.1	4.1	4.6	4.1	2.7
14	MCNL-19-14	NPJ-235	121	125	126	112	111	105	4.3	2.3	3.8	5.8	5.4	4.1
15	MCNL-19-15	RH 1899-40	122	138	123	119	114	110	4.4	2.8	3.9	5.6	4.4	3.5
16	MCNL-19-16	TM 134	119	138	124	113	113	110	4.4	2.3	3.9	5.4	4.1	3.7
17	MCNL-19-17	MCB 1-2-3-2-4	136	136	128	126	114	116	3.4	2.8	4.1	4.8	4.7	3.2
18	MCNL-19-18	DRMRCI 115	124	134	119	114	111	108	4.6	2.6	4.0	5.4	6.1	3.8
19	MCNL-19-19	PRL-16-5	128	139	128	121	119	114	3.5	2.5	4.3	3.8	4.9	2.8
20	MCNL-19-20	CS 56 (LR)	132	137	126	122	116	113	4.6	2.8	3.7	5.0	5.1	3.7
		GM						<b>121</b>						<b>4.0</b>

**Table 2.3.21. Performance of Indian mustard strains in AVT-I+II Late Sown (Irrigated) Zone - II**

S.No.	Code	Strain	Seed Yield (Kg/ha)					Plant Stand				Days to Maturity				1000-Seed Wt.(g)		
			LDH	SGN	HSR	NDH	Mean	LDH	SGN	HSR	NDH	LDH	SGN	HSR	NDH	LDH	SGN	HSR
			1	2	3	4	(1-4)	1	2	3	4	1	2	3	4	1	2	3
1	MCNL-19-21	RH 1599-41#	1429	1972	2159	1740	<b>1825</b>	285	310	260	287	150	138	138	125	3.4	4.2	3.9
2	MCNL-19-22	Filler ( PM 26)	1373	1889	1706	1723	<b>1673</b>	281	320	262	270	147	139	138	120	3.0	4.2	3.7
3	MCNL-19-23	DRMR 2017-153##	1508	1993	2000	1826	<b>1832</b>	276	305	264	280	150	136	139	131	3.9	3.8	4.1
4	MCNL-19-24	RVM 2(LR)	974	1737	1612	1243	<b>1391</b>	265	300	266	305	153	128	141	137	3.7	3.2	3.9
5	MCNL-19-25	DRMRIC 16-38##	1837	1824	2009	1533	<b>1801</b>	276	290	252	263	149	138	139	131	4.1	4.4	4.5
<b>6</b>	<b>MCNL-19-26</b>	<b>Kranti (NC)</b>	<b>2061</b>	<b>1764</b>	<b>1702</b>	<b>1518</b>	<b>1761</b>	<b>279</b>	<b>285</b>	<b>244</b>	<b>265</b>	<b>148</b>	<b>140</b>	<b>140</b>	<b>128</b>	<b>3.3</b>	<b>4.2</b>	<b>3.6</b>
7	MCNL-19-27	PM 26 (ZC)	1379	1962	1749	1775	<b>1716</b>	279	305	266	268	143	137	140	118	3.2	4.2	3.8
		GM	<b>1509</b>	<b>1877</b>	<b>1848</b>	<b>1622</b>	<b>1714</b>											
		CD (5%)	299	191	331	152												
		CV (%)	13.3	6.8	12.0	6.3												
		DOS	22.11.19	21.11.19	15.11.19	18.11.19												

# AVT I Repeat entry

## AVT II Entry

**Table 2.3.22. Performance of Indian mustard hybrids in IHT, Zone-II**

S.No.	Code	Strain	Seed Yield (kg/ha)							Plant Stand						Days to Maturity						1000-Seed Wt.(g)					
			HSR	LDH	PAL	NDH	MDG	GUG	Mean	HSR	LDH	PAL	NDH	MDG	GUG	HSR	LDH	PAL	NDH	MDG	GUG	HSR	LDH	PAL	NDH	MDG	GUG
			1	2	3	4	5	6	(1-6)	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
1	MH-19-1	SVJH-85	3479	2521	2942	2563	4177	2134	<b>2969</b>	120	134	161	132	193	174	155	144	145	142	135	145	4.6	3.2	4.3	5.0	6.0	4.7
2	MH-19-2	RH 749 (ZC)	3274	2482	2928	3085	3103	1583	<b>2743</b>	123	132	169	140	194	171	157	151	146	147	134	144	5.8	4.6	6.1	6.1	5.3	5.9
3	MH-19-3	PHR-3278a	3546	2479	2870	2582	3249	1964	<b>2782</b>	123	129	160	147	194	180	155	151	147	147	136	144	3.6	2.9	2.4	3.5	5.0	3.8
4	MH-19-4	DRMRHJ 3103	3180	1807	2660	2678	3100	1600	<b>2504</b>	121	135	165	152	192	183	154	145	146	146	135	145	4.7	4.4	4.9	5.2	4.8	5.0
5	MH-19-5	<b>45S46 (Check)</b>	<b>3688</b>	<b>2309</b>	<b>3686</b>	<b>3559</b>	<b>3190</b>	<b>1938</b>	<b>3062</b>	<b>118</b>	<b>136</b>	<b>169</b>	<b>139</b>	<b>193</b>	<b>165</b>	<b>147</b>	<b>138</b>	<b>141</b>	<b>133</b>	<b>131</b>	<b>139</b>	<b>5.3</b>	<b>4.5</b>	<b>5.6</b>	<b>6.1</b>	<b>5.6</b>	<b>5.4</b>
6	MH-19-6	17J157C	3589	2519	3503	3059	3150	1854	<b>2946</b>	120	134	171	142	196	174	151	136	137	135	133	139	5.5	4.7	5.5	6.0	5.5	5.2
7	MH-19-7	Kranti (NC)	3400	2364	2981	2730	3440	1917	<b>2806</b>	128	137	163	156	192	176	151	142	142	142	135	145	4.1	3.7	3.9	4.2	5.1	4.1
8	MH-19-8	DRMRHJ 1518	3199	1709	2618	2774	3411	1461	<b>2529</b>	130	138	162	152	193	177	150	143	143	139	138	144	4.8	3.7	4.8	5.4	4.7	5.2
9	MH-19-9	RHH 1901	3972	2682	3190	2885	3142	1991	<b>2977</b>	121	135	173	149	194	173	151	151	145	145	138	145	4.6	3.4	4.0	4.1	5.5	4.5
10	MH-19-10	SVJH-008	3459	1616	2781	2581	4224	1966	<b>2771</b>	121	136	161	140	195	174	152	135	142	144	134	138	5.1	4.4	5.1	5.6	6.1	5.5
11	MH-19-11	17J039C	3373	2378	3816	3241	3410	2312	<b>3088</b>	120	133	171	141	193	182	144	134	137	132	135	137	5.4	4.2	5.2	5.6	5.4	5.4
12	MH-19-12	DMH-1 (Check)	3286	2446	3202	2852	3319	2733	<b>2973</b>	126	132	172	148	193	176	151	150	146	140	135	145	3.4	3.7	3.2	3.7	5.5	3.4
13	MH-19-13	Rasi 1604	3069	1810	2526	2396	3235	1696	<b>2455</b>	120	130	166	147	191	177	151	136	139	137	137	138	5.0	4.3	4.7	5.7	5.0	5.5
14	MH-19-14	DRMRHJ 817	3180	1801	2441	2344	3188	1666	<b>2437</b>	127	132	162	149	193	169	152	144	143	145	134	142	3.9	3.4	4.0	4.2	4.8	4.1
15	MH-19-15	71J0004	3763	2618	3233	3219	3318	2339	<b>3081</b>	123	134	169	146	191	185	156	146	146	146	136	145	4.4	3.7	4.4	5.0	5.0	4.8
16	MH-19-16	RHH 1902	3877	1660	3043	2922	3241	2168	<b>2819</b>	125	130	169	144	190	175	151	144	141	144	140	145	4.6	2.9	4.3	4.2	5.8	4.4
		GM	<b>3458</b>	<b>2200</b>	3026	<b>2842</b>	<b>3369</b>	<b>1958</b>	<b>2809</b>						<b>156</b>						<b>143</b>						4.7
		CD (5%)	523	400	445	520	512	431																			
		CV (%)	9.0	10.9	8.8	11.0	9.1	13.2																			
		DOS	11.10.19	23.10.19	21.10.19	10.10.19	19.09.19	19.10.19																			

**Table 2.3.23a. Performance of Indian mustard hybrids in IHT, Zone-III**

S.No.	Code	Strain	Seed Yield (kg/ha)								Plant Stand						
			MOR	PNT	KPR	BPR	KOT	VAR	DOL	Mean	MOR	PNT	KPR	BPR	KOT	VAR	DOL
			1	2	3	4	5	6	7	(1-7)	1	2	3	4	5	6	7
1	MH-19-1	SVJH-85	3048	1723	2598	2185	2690	1972	2475	<b>2384</b>	179	145	122	116	100	141	94
2	MH-19-2	RGN 73 (ZC)	3336	1562	2572	2411	2602	1931	2211	<b>2375</b>	175	138	120	108	96	143	84
3	MH-19-3	PHR-3278a	3280	1686	2572	2315	2967	2418	2491	<b>2533</b>	174	161	120	108	100	144	95
4	MH-19-4	DRMRHJ 3103	3455	1284	2238	2119	2775	1835	2233	<b>2277</b>	174	128	117	109	98	146	87
<b>5</b>	<b>MH-19-5</b>	<b>45S46 (Check)</b>	<b>3280</b>	<b>1080</b>	<b>2546</b>	<b>2559</b>	<b>3026</b>	<b>2366</b>	<b>2952</b>	<b>2544</b>	<b>175</b>	<b>138</b>	<b>116</b>	<b>111</b>	<b>99</b>	<b>141</b>	<b>93</b>
6	MH-19-6	17J157C	2182	1679	2443	2711	2617	2193	1926	<b>2250</b>	178	134	121	109	98	139	89
7	MH-19-7	Kranti (NC)	3681	1654	2418	2378	2723	1868	2261	<b>2426</b>	177	133	118	133	98	143	89
8	MH-19-8	DRMRHJ 1518	2672	1254	2649	2215	2745	1701	2178	<b>2202</b>	177	134	122	115	96	144	82
9	MH-19-9	RHH 1901	2709	1865	2726	2800	3019	2194	2326	<b>2520</b>	178	122	124	112	99	150	92
10	MH-19-10	SVJH-008	2408	1042	2289	1978	3210	1177	2305	<b>2058</b>	177	141	119	121	97	146	87
11	MH-19-11	17J039C	3286	1830	2392	2556	2593	1155	1931	<b>2249</b>	179	129	121	120	98	141	90
12	MH-19-12	DMH-1 (Check)	3662	1636	2623	3015	2819	2554	1361	<b>2524</b>	177	122	122	113	97	150	94
13	MH-19-13	Rasi 1604	3142	1019	2238	1959	2455	1143	2250	<b>2029</b>	175	161	124	114	100	142	93
14	MH-19-14	DRMRHJ 817	3349	1192	2083	1896	2642	2078	1866	<b>2158</b>	179	119	119	116	97	147	88
15	MH-19-15	71J0004	2653	1857	2598	2700	2928	2368	2519	<b>2517</b>	179	147	124	119	97	145	90
16	MH-19-16	RHH 1902	2245	1042	2212	2544	3253	1786	2332	<b>2202</b>	180	116	120	118	99	144	89
		GM	<b>3024</b>	1463	<b>2450</b>	<b>2400</b>	<b>2817</b>	<b>1921</b>	<b>2226</b>	<b>2328</b>							<b>126</b>
		CD (5%)	341	223	364	360	442	314	362								
		CV (%)	6.8	9.1	9.0	8.99	9.4	9.8	9.7								
		DOS	21.10.19	24.10.19	15.10.19	13.10.19	31.10.19	27.10.19	22.10.19								

**Table 2.3.23b. Performance of Indian mustard hybrids in IHT, Zone-III**

S.No.	Code	Strain	Days to maturity							1000-Seed Wt.(g)						
			MOR	PNT	KPR	BPR	KOT	VAR	DOL	MOR	PNT	KPR	BPR	KOT	VAR	DOL
			1	2	3	4	5	6	7	1	2	3	4	5	6	7
1	MH-19-1	SVJH-85	130	135	137	143	133	133	130	4.5	2.9	3.5	4.2	4.7	5.3	5.7
2	MH-19-2	RGN 73 (ZC)	129	139	135	148	135	139	131	3.7	2.9	3.9	4.2	4.7	4.9	4.8
3	MH-19-3	PHR-3278a	129	137	134	147	136	132	126	3.3	2.4	3.7	3.7	3.7	4.1	4.6
4	MH-19-4	DRMRHJ 3103	129	132	136	147	130	130	128	4.6	2.9	3.7	3.9	5.1	5.9	5.2
<b>5</b>	<b>MH-19-5</b>	<b>45S46 (Check)</b>	<b>128</b>	<b>129</b>	<b>135</b>	<b>144</b>	<b>129</b>	<b>126</b>	<b>125</b>	<b>5.2</b>	<b>3.5</b>	<b>4.1</b>	<b>5.0</b>	<b>5.5</b>	<b>5.1</b>	<b>6.8</b>
6	MH-19-6	17J157C	128	136	132	141	131	129	129	5.0	3.0	4.3	5.4	4.9	5.6	6.6
7	MH-19-7	Kranti (NC)	129	132	134	146	130	133	126	3.9	2.8	3.9	3.9	4.4	4.6	4.6
8	MH-19-8	DRMRHJ 1518	129	130	136	147	137	134	130	4.7	2.8	4.0	5.0	5.0	5.6	4.3
9	MH-19-9	RHH 1901	128	129	138	145	134	136	124	4.3	2.9	4.0	4.3	4.7	3.9	6.9
10	MH-19-10	SVJH-008	130	123	130	145	132	119	129	4.9	3.1	4.0	4.6	4.6	5.2	7.5
11	MH-19-11	17J039C	129	123	132	139	127	118	131	3.9	2.9	3.8	4.6	4.8	5.7	6.4
12	MH-19-12	DMH-1 (Check)	129	139	138	146	134	132	133	3.1	2.6	4.0	2.7	3.2	4.4	3.0
13	MH-19-13	Rasi 1604	129	124	134	144	128	125	130	5.6	2.9	3.9	4.6	5.3	4.8	5.8
14	MH-19-14	DRMRHJ 817	127	131	132	147	137	133	126	3.8	2.3	4.1	3.4	3.4	4.1	5.1
15	MH-19-15	71J0004	96	131	135	145	131	133	129	4.0	2.7	4.0	4.4	4.7	5.2	6.6
16	MH-19-16	RHH 1902	130	129	133	145	129	133	125	3.9	2.3	3.8	3.8	4.6	4.4	7.8
		GM							<b>133</b>							<b>4.3</b>



**Table 2.3.24. Performance of Indian mustard hybrids in IHT, Zone-IV**

S.No.	Code	Strain	Seed Yield (kg/ha)			Plant Stand		Days to maturity		1000-Seed Wt.(g)	
			SKN	MDR	Mean	SKN	MDR	SKN	MDR	SKN	MDR
			1	2	(1-2)	1	2	1	2	1	2
1	MH-19-1	SVJH-85	2819	2409	<b>2614</b>	138	172	120	124	4.5	4.0
2	MH-19-2	GDM 4 (ZC)	3027	2323	<b>2675</b>	135	165	119	123	5.0	4.2
3	MH-19-3	PHR-3278a	2767	2376	<b>2572</b>	135	172	119	128	3.6	4.4
4	MH-19-4	DRMRHJ 3103	3081	2638	<b>2859</b>	156	176	117	124	4.9	4.1
<b>5</b>	<b>MH-19-5</b>	<b>45S46 (Check)</b>	<b>3593</b>	<b>2883</b>	<b>3238</b>	<b>144</b>	<b>176</b>	<b>111</b>	<b>123</b>	<b>5.8</b>	<b>5.0</b>
6	MH-19-6	17J157C	3483	3027	<b>3255</b>	139	176	110	117	5.5	4.7
7	MH-19-7	Kranti (NC)	3155	2304	<b>2730</b>	146	168	116	125	4.2	4.3
8	MH-19-8	DRMRHJ 1518	3175	2480	<b>2827</b>	145	169	118	125	5.1	4.2
9	MH-19-9	RHH 1901	3089	3035	<b>3062</b>	147	179	119	128	4.1	3.7
10	MH-19-10	SVJH-008	3221	2431	<b>2826</b>	139	167	118	126	5.5	3.9
11	MH-19-11	17J039C	4056	3221	<b>3639</b>	145	172	112	117	5.3	4.4
12	MH-19-12	DMH-1 (Check)	2644	2785	<b>2714</b>	125	174	119	129	3.2	3.3
13	MH-19-13	Rasi 1604	3334	2647	<b>2990</b>	145	167	116	125	5.2	3.7
14	MH-19-14	DRMRHJ 817	3226	2644	<b>2935</b>	142	167	117	126	4.0	3.6
15	MH-19-15	71J0004	3100	2611	<b>2855</b>	139	172	119	127	4.2	4.2
16	MH-19-16	RHH 1902	3367	2581	<b>2974</b>	141	171	118	127	4.4	3.4
		GM	<b>3196</b>	<b>2650</b>	<b>2923</b>		<b>156</b>		<b>121</b>		<b>4.4</b>
		CD (5%)	509	320							
		CV (%)	9.6	7.2							
		DOS	20.10.19	30.10.19							

Trial could not be conducted at JAL and Talod due to rains at the time of sowing

**Table 2.3.24b. Percent sterile plants in different entries of IHT**

S.No.	Code	Strain	Zone II				Zone III	Zone IV	Mean
			HSR#	LDH	NDH	PAL	BPR	SKN#	
			1	2	3	5	5	1	(2-5)
1	MH-19-1	SVJH-85	6	5.0	2.7	11	0	20	5
2	MH-19-2	Zonal Check RH 749(II),RGN73(III)GDM 4(IV)	4	0.0	0.0	3	0	20	1
3	MH-19-3	PHR-3278a	2	5.0	3.5	8	0	25	4
4	MH-19-4	DRMRHJ 3103	0	60.0	26.8	26	40	60	38
5	MH-19-5	45S46 (Check)	10	60.0	6.1	6	0	10	18
6	MH-19-6	17J157C	0	5.0	8.5	4	0	30	4
7	MH-19-7	Kranti (NC)	15	0.0	2.7	4	0	25	2
8	MH-19-8	DRMRHJ 1518	14	7.0	22.1	22	20	35	18
9	MH-19-9	RHH 1901	11	5.0	2.0	3	0	25	2
10	MH-19-10	SVJH-008	0	5.0	22.6	18	15	50	15
11	MH-19-11	17J039C	11	7.0	2.1	1	0	5	3
12	MH-19-12	DMH-1 (Check)	8	0.0	3.6	5	0	30	2
13	MH-19-13	Rasi 1604	0	60.0	7.0	27	10	40	26
14	MH-19-14	DRMRHJ 817	5	60.0	30.9	22	30	40	36
15	MH-19-15	71J0004	0	10.0	6.3	20	10	35	12
16	MH-19-16	RHH 1902	9	4.0	2.3	7	0	10	3

# data of HSR and SK Nagar excluded from computation of mean

**Table 2.3.25a. Performance of Quality Indian mustard strains in IVT, Zone-II**

S.No.	Code	Strain	Seed Yield (kg/ha)					Plant Stand				Days to Maturity				1000-Seed Wt. (g)				
			HSR	LDH	NDH	SGN	Mean	HSR	LDH	NDH	SGN	HSR	LDH	NDH	SGN	HSR	LDH	NDH	SGN	
			1	2	3	4	(1-4)	1	2	3	4	1	2	3	4	1	2	3	4	
1	QM-19-1	PM 29 (LR)	2734	1936	2011	2500	<b>2295</b>	126	138	111	180	158	148	155	158	5.4	4.4	4.5	3.2	
2	QM-19-2	JC-21	2908	1728	1556	1911	<b>2026</b>	124	138	117	168	150	138	132	152	3.3	4.1	3.1	3.8	
3	QM-19-3	PDZ 1(Double low check)	2691	2248	2033	2333	<b>2326</b>	128	137	117	155	148	141	132	154	3.0	4.0	3.3	3.6	
4	QM-19-4	RH (OE)-1710	3735	1747	2693	2141	<b>2579</b>	123	135	115	160	149	140	144	147	3.4	3.5	3.4	3.6	
5	QM-19-5	LES-61	2947	2062	2270	2700	<b>2495</b>	126	140	131	175	150	138	143	148	5.8	5.5	5.6	5.4	
6	QM-19-6	RH (OE)-1711	3680	2144	2822	2337	<b>2746</b>	123	142	126	145	152	140	143	153	4.6	4.0	4.6	5.0	
7	QM-19-7	JC-33	2975	1873	1867	2348	<b>2266</b>	124	141	116	160	155	146	148	152	3.4	4.2	3.5	3.8	
8	QM-19-8	PDZ-13#	2927	2423	2263	2378	<b>2498</b>	125	135	111	155	154	146	140	147	3.6	4.3	4.1	4.2	
9	QM-19-9	DRMRQ 5-2	2774	2509	2370	1937	<b>2398</b>	127	138	138	168	155	140	150	153	2.7	4.3	2.6	3.8	
<b>10</b>	<b>QM-19-10</b>	<b>9IJ5001</b>	<b>3660</b>	<b>2095</b>	<b>2304</b>	<b>2366</b>	<b>2606</b>	*	<b>125</b>	<b>138</b>	<b>113</b>	<b>175</b>	<b>158</b>	<b>150</b>	<b>152</b>	<b>158</b>	<b>4.4</b>	<b>4.4</b>	<b>2.5</b>	<b>3.8</b>
<b>11</b>	<b>QM-19-11</b>	<b>Kranti (NC)</b>	<b>3479</b>	<b>2192</b>	<b>2856</b>	<b>2692</b>	<b>2805</b>	*	<b>128</b>	<b>135</b>	<b>128</b>	<b>165</b>	<b>152</b>	<b>148</b>	<b>150</b>	<b>154</b>	<b>4.2</b>	<b>4.1</b>	<b>4.1</b>	<b>4.6</b>
<b>12</b>	<b>QM-19-12</b>	<b>LES-60</b>	<b>3286</b>	<b>2349</b>	<b>2826</b>	<b>3189</b>	<b>2912</b>	*	<b>126</b>	<b>141</b>	<b>131</b>	<b>170</b>	<b>156</b>	<b>148</b>	<b>151</b>	<b>153</b>	<b>5.9</b>	<b>4.7</b>	<b>5.4</b>	<b>4.6</b>
13	QM-19-13	RH 749 (ZC)	3227	2305	2937	2640	<b>2777</b>	127	134	125	180	157	147	153	156	6.2	4.7	6.1	6.2	
		GM	<b>3156</b>	<b>2124</b>	<b>2370</b>	<b>2421</b>	<b>2518</b>				<b>138</b>				<b>149</b>				<b>4.2</b>	
		CD (5%)	545	423	378	330														
		CV (%)	10.2	11.8	9.4	8.1														
		DOS	11.10.1	24.10.19	10.10.1	25.10.1														

# Strain inducted with double low characteristics

\* Strain(s) having low erucic acid content in oil and/or low glucosinolate content in seed meal and at par/outyielding the best check

**Table 2.3.26a. Performance of Quality Indian mustard strains in IVT, Zone-III**

S.No.	Code	Strain	Seed Yield (kg/ha)							Plant Stand					
			MOR	PNT	KPR	BPR	DOL	JHS	Mean	MOR	PNT	KPR	BPR	DOL	JHS
			1	2	3	4	5	6	(1-6)	1	2	3	4	5	6
1	QM-19-1	PM 30 (LR)	2906	1423	1878	2512	1617	2170	<b>2084</b>	172	145	118	120	170	207
2	QM-19-2	JC-21	2696	810	1646	1885	1185	1332	<b>1592</b>	173	131	120	110	163	213
3	QM-19-3	PDZ 1(Double low check)	1927	852	2083	1614	1247	1504	<b>1538</b>	172	118	123	109	162	208
4	QM-19-4	RH (OE)-1710	2925	972	2109	1716	2019	2430	<b>2028</b>	176	127	124	107	164	221
5	QM-19-5	LES-61	2969	1148	1698	1750	1827	2062	<b>1909</b>	177	115	118	137	166	209
6	QM-19-6	RH (OE)-1711	2798	901	1723	1914	2512	2149	<b>2000</b>	175	135	119	110	168	233
7	QM-19-7	JC-33	1634	1179	1955	2046	1346	2238	<b>1733</b>	172	118	120	117	161	235
8	QM-19-8	PDZ-13#	3294	969	1723	1910	1204	1582	<b>1780</b>	176	109	118	114	166	193
9	QM-19-9	DRMRQ 5-2	2213	1043	1620	1676	1451	1539	<b>1590</b>	176	129	120	115	166	260
10	QM-19-10	9IJ5001	2798	1591	1929	2373	1290	1459	<b>1907</b>	171	135	124	110	171	234
<b>11</b>	<b>QM-19-11</b>	<b>Kranti (NC)</b>	<b>3319</b>	<b>1279</b>	<b>2160</b>	<b>1657</b>	<b>1630</b>	<b>2722</b>	<b>2128</b>	<b>175</b>	<b>121</b>	<b>125</b>	<b>121</b>	<b>162</b>	<b>282</b>
<b>12</b>	<b>QM-19-12</b>	<b>LES-60</b>	<b>3357</b>	<b>997</b>	<b>1775</b>	<b>2247</b>	<b>1772</b>	<b>2806</b>	<b>2159</b>	*	<b>176</b>	<b>118</b>	<b>119</b>	<b>120</b>	<b>211</b>
13	QM-19-13	RGN 73 (ZC)	2912	1426	2263	2120	1568	2214	<b>2084</b>	175	141	122	115	166	263
		GM	<b>2750</b>	<b>1122</b>	<b>1889</b>	<b>1956</b>	<b>1590</b>	<b>2016</b>	<b>1887</b>						<b>155</b>
		CD (5%)	386	217	288	402	216	239							
		CV (%)	8.3	11.4	9.0	12.2	8.0	14.5							
		DOS	16.10.19	24.10.19	15.10.19	12.10.19	17.10.19	29.10.19							

\* Strain(s) having low erucic acid content in oil and /or low glucosinolate content in seed meal and at par/outyielding the best check

# inducted as double low strains

**Table 2.3.26b. Performance of Quality Indian mustard strains in IVT, Zone-III**

S.No	Code	Strain	Days to Maturity						1000-Seed Wt. (g)					
			MOR	PNT	KPR	BPR	DOL	JHS	MOR	PNT	KPR	BPR	DOL	JHS
			1	2	3	4	5	6	1	2	3	4	5	6
1	QM-19-1	PM 30 (LR)	130	130	135	142	126	135	5.3	2.8	3.3	5.9	4.5	5.0
2	QM-19-2	JC-21	132	128	134	144	128	135	2.6	2.0	3.7	4.0	7.0	3.4
3	QM-19-3	PDZ 1(Double low check)	138	128	136	144	129	136	2.6	1.9	3.1	3.2	6.5	3.2
4	QM-19-4	RH (OE)-1710	130	122	135	141	125	135	2.6	3.0	3.8	3.3	5.2	3.2
5	QM-19-5	LES-61	125	127	130	140	128	136	5.3	3.0	3.3	4.8	3.2	5.3
6	QM-19-6	RH (OE)-1711	128	128	132	144	132	136	4.5	2.4	4.1	4.0	6.1	4.3
7	QM-19-7	JC-33	132	133	134	143	130	137	3.2	2.4	4.0	4.0	4.3	3.7
8	QM-19-8	PDZ-13#	135	125	131	143	126	133	3.2	2.5	4.2	4.1	4.7	3.6
9	QM-19-9	DRMRQ 5-2	139	129	134	144	129	133	1.9	2.2	3.8	2.8	4.6	3.2
10	QM-19-10	9IJ5001	140	138	135	144	131	136	2.5	2.3	4.1	2.4	4.6	3.4
<b>11</b>	<b>QM-19-11</b>	<b>Kranti (NC)</b>	<b>132</b>	<b>126</b>	<b>137</b>	<b>145</b>	<b>125</b>	<b>134</b>	<b>3.9</b>	<b>2.3</b>	<b>4.2</b>	<b>3.8</b>	<b>6.6</b>	<b>4.2</b>
<b>12</b>	<b>QM-19-12</b>	<b>LES-60</b>	<b>139</b>	<b>131</b>	<b>132</b>	<b>144</b>	<b>127</b>	<b>135</b>	<b>6.2</b>	<b>2.6</b>	<b>3.4</b>	<b>4.8</b>	<b>6.0</b>	<b>5.0</b>
13	QM-19-13	RGN 73 (ZC)	135	136	135	144	132	133	3.7	2.1	3.8	4.4	7.0	4.2
		GM						<b>134</b>						<b>3.9</b>

**Table 2.3.27. Performance of Quality Indian mustard strains in AVT-I+II, Zone- II**

S.No.	Code	Strain	Seed Yield (Kg/ha)					Plant Stand				Days to Maturity				1000-Seed Wt. (g)				
			NDH	HSR	LDH	SGN	Mean	NDH	HSR	LDH	SGN	NDH	HSR	LDH	SGN	NDH	HSR	LDH	SGN	
			1	2	3	4	(1-4)	1	2	3	4	1	2	3	4	1	2	3	4	
1	QM-19-14	LES-59	2446	3285	2219	2618	<b>2642</b>		261	260	274	315	133	148	141	146	5.7	5.2	5.0	4.8
2	QM-19-15	PDZ 12#	<b>2943</b>	<b>3404</b>	<b>2245</b>	<b>2468</b>	<b>2765</b>	*	261	263	294	295	138	148	147	151	4.4	4.1	4.6	3.8
3	QM-19-16	Kranti (NC)	2911	3357	2116	2306	<b>2673</b>		295	261	276	285	144	149	145	154	4.1	4.5	4.6	4.8
4	QM-19-17	RH 749 (ZC)	<b>2982</b>	<b>3271</b>	<b>2194</b>	<b>2649</b>	<b>2774</b>		262	261	280	305	151	155	151	153	6.4	6.3	4.3	5.8
5	QM-19-18	LES 54\$	<b>3025</b>	<b>3039</b>	<b>2309</b>	<b>2909</b>	<b>2821</b>		265	261	283	320	146	148	143	151	5.0	4.7	4.8	4.2
6	QM-19-19	PDZ 1(double low check)	2242	2801	2048	2281	<b>2343</b>		261	261	290	315	146	145	143	152	3.3	3.3	3.9	3.8
7	QM-19-20	RH (OE) 1705	1885	3661	1577	1752	<b>2219</b>		259	261	287	305	138	153	143	145	3.9	4.6	3.8	3.4
8	QM-19-21	PDZ-11#	<b>2545</b>	<b>3320</b>	<b>2075</b>	<b>2872</b>	<b>2703</b>	*	264	262	280	300	136	146	143	148	4.4	3.6	3.9	3.8
9	QM-19-22	RH (OE) 1706	2732	3678	1965	2560	<b>2734</b>		264	264	286	295	134	145	143	147	5.6	5.6	4.8	4.8
10	QM-19-23	RCH 1##	<b>2728</b>	<b>3308</b>	<b>2351</b>	<b>2675</b>	<b>2765</b>	*	266	266	288	310	147	152	153	149	3.5	3.7	4.3	3.4
11	QM-19-24	PM 29 (LR)	2009	2705	1996	2457	<b>2292</b>		261	265	283	315	155	156	153	154	4.5	5.2	4.2	5.0
		GM	<b>2586</b>	<b>3257</b>	<b>2099</b>	<b>2504</b>	<b>2612</b>					<b>279</b>				<b>147</b>				<b>4.5</b>
		CD (5%)	265	452	278	246														
		CV (%)	7.1	9.7	9.2	6.8														
		DOS	10.10.1	11.10.1	29.10.1	25.10.1														

# strains inducted as double low

\$ AVT II Entry

## double low; AVT I repeat entry

\* double low strains outyielding the quality check by 10 % and at par with best non quality check

**Table 2.3.28a. Performance of Quality Indian mustard strains in AVT-I+II, Zone - III**

S.No.	Code	Strain	Seed Yield (Kg/ha)						Plant Stand					Days to Maturity					1000-Seed Wt. (g)				
			PNT	KPR	MOR	BPR	VAR	Mean	PNT	KPR	MOR	BPR	VAR	PNT	KPR	MOR	BPR	VAR	PNT	KPR	MOR	BPR	VAR
			1	2	3	4	5	(1-5)	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
1	QM-19-25	PM 30(LR)	913	2166	2888	1981	1536	<b>1897</b>	272	218	339	210	396	137	136	132	142	129	3.1	4.3	6.4	6.0	6.4
2	QM-19-26	RH (OE) 1706	916	2133	1784	1797	1794	<b>1685</b>	298	220	343	230	391	129	134	125	144	128	2.6	3.8	3.5	4.6	4.4
3	QM-19-27	Kranti (NC)	1094	2092	1698	1888	2308	<b>1816</b>	267	221	341	246	397	133	135	126	141	129	2.3	4.0	3.4	3.9	4.2
4	<b>QM-19-28</b>	<b>RGN 73 (ZC)</b>	<b>1519</b>	<b>2348</b>	<b>3005</b>	<b>2022</b>	<b>2074</b>	<b>2194</b>	<b>269</b>	<b>223</b>	<b>339</b>	<b>252</b>	<b>393</b>	<b>138</b>	<b>137</b>	<b>123</b>	<b>142</b>	<b>132</b>	<b>2.8</b>	<b>4.2</b>	<b>4.5</b>	<b>3.6</b>	<b>4.2</b>
5	QM-19-29	PDZ 11#	1043	1951	2816	1848	1538	<b>1839</b>	274	217	351	209	389	132	134	121	142	133	2.4	4.0	3.7	3.3	3.4
		GM	<b>1097</b>	<b>2138</b>	<b>2438</b>	<b>1907</b>	<b>1850</b>	<b>1886</b>					<b>292</b>					<b>112</b>					<b>4.0</b>
		CD (5%)	179	238	479	381	516																
		CV (%)	10.6	7.2	12.6	13.0	10.5																
		DOS	24.10.	15.10.	21.10.	12.10.	28.10.19																

# AVT II Entry

**Table 2.3.28b. Erucic acid Content (%) of entries being evaluated in IVT/AVT Quality trials**

S. No.	Code	Genotype	Erucic acid content (%)							Glucosinolate content (µmole/g)						
			BPR	PNT	KNG#	LDH	HSR	NDH	Mean	BPR	PNT	KNG#	LDH	HSR	NDH	Mean
			1	2	3	4	5	6	(1-2, 4-6)	1	2	3	4	5	6	(1-2, 4-6)
1	QM-19-1	PM 29 (LR)	2.0	1.9	1.8	1.9	2.1	0.8	<b>1.9</b>	80.8	80.4	66.0	83.5	80.0	67.3	<b>78.4</b>
2	QM-19-2	JC-21	1.8	2.1	0.3	1.1	1.2	0.3	<b>1.3</b>	18.2	17.5	14.8	20.7	16.3	18.0	<b>18.1</b>
3	QM-19-3	PDZ 1(Double low check)	2.6	1.1	0.8	1.5	1.2	0.0	<b>1.4</b>	19.2	13.2	14.0	16.4	21.7	21.4	<b>18.4</b>
4	QM-19-4	RH (OE)-1710	1.9	2.2	1.0	0.9	1.3	0.0	<b>1.5</b>	75.7	73.8	85.6	77.7	77.7	45.7	<b>70.1</b>
5	QM-19-5	LES-61	2.1	2.5	10.4	1.4	1.6	0.0	<b>3.3</b>	71.3	67.7	63.3	72.8	72.4	57.9	<b>68.4</b>
6	QM-19-6	RH (OE)-1711	1.8	0.9	1.5	1.3	1.1	0.6	<b>1.3</b>	78.5	83.0	82.4	75.4	85.5	49.0	<b>74.3</b>
7	QM-19-7	JC-33	3.3	3.1	0.5	4.9	3.5	0.9	<b>3.2</b>	21.3	17.4	20.0	19.9	20.4	26.7	<b>21.2</b>
8	QM-19-8	PDZ-13#	2.0	1.3	0.5	0.9	1.3	0.0	<b>1.2</b>	17.9	15.1	11.0	19.0	20.3	18.3	<b>18.1</b>
9	QM-19-9	DRMRQ 5-2	0.7					0.0	<b>0.5</b>	10.2					19.4	<b>14.8</b>
10	QM-19-10	9IJ5001						2.0	<b>2.0</b>						19.1	<b>19.1</b>
11	QM-19-11	Kranti (NC)	36.1	38.9	41.0	43.5	44.9	38.4	<b>40.9</b>	66.8	61.3	73.7	71.7	68.2	54.6	<b>64.5</b>
12	QM-19-12	LES-60	1.7	2.1	7.4	1.6	1.4	0.0	<b>2.7</b>	75.7	87.8	61.6	72.4	86.4	48.6	<b>74.2</b>
13	QM-19-13	RH 749 (ZC)						37.3	<b>37.3</b>						67.5	<b>67.5</b>
14	QM-19-14	LES-59	2.1	2.0	40.5	1.5	1.1	0.0	<b>8.1</b>	65.2	82.5	93.4	78.6	71.9	52.5	<b>70.2</b>
15	QM-19-15	PDZ 12#	0.5					0.1	<b>0.3</b>	14.2					25.1	<b>19.7</b>
16	QM-19-16	Kranti (NC)						36.3		38.3	30.9	18.2	34.3	36.3	64.2	<b>40.8</b>
17	QM-19-17	RH 749 (ZC)						40.8		19.2	13.2	14.0	16.4	21.7	77.5	<b>29.6</b>
18	QM-19-18	LES 54\$	2.8	2.1	1.5	1.1	1.2	0.0	<b>1.8</b>	38.3	30.9	18.2	34.3	36.3	53.8	<b>38.7</b>
19	QM-19-19	PDZ 1(double low check)	0.8					0.0	<b>0.5</b>	12.1					19.9	<b>16.0</b>
20	QM-19-20	RH (OE) 1705	1.7	1.9	1.6	1.3	1.1	0.0	<b>1.5</b>	63.8	72.1	75.6	67.1	70.0	44.0	<b>63.4</b>
21	QM-19-21	PDZ-11#						0.0		18.9	16.7	12.4	19.6	19.5	16.2	<b>18.2</b>
22	QM-19-22	RH (OE) 1706	4.2	5.0	1.5	3.5	3.4	1.0	<b>3.6</b>	79.5	72.2	72.3	81.4	81.9	54.6	<b>73.9</b>
23	QM-19-23	RCH 1##	2.0	1.8	0.3	2.0	1.9	0.3	<b>1.7</b>	18.9	16.7	12.4	19.6	19.5	12.9	<b>17.5</b>
24	QM-19-24	PM 29 (LR)						0.0							56.7	<b>56.7</b>
25		PM 30	1.3	2.8	1.8	1.1	1.1		<b>1.6</b>	87.8	101.2	118.4	94.0	95.6		<b>94.7</b>

# data of KNG Centre excluded from computation of mean



**Table 2.3.29. Performance of Indian mustard strains in IVT Under saline/alkaline conditions**

S.No.	Code	Strain	Seed Yield (kg/ha)						Plant Stand			1000- Seed Wt. (g)		
			AGR	HSR	KAR	PNP	LKW	Mean	KAR	PNP	LKW	KAR	PNP	LKW
			1	2	3	4	5	(1-5)	3	4	5	3	4	5
1	CSCN-19-1	CS-54 (Check)	2015	1773	1588	1621	1532	<b>1706</b>	166	151	<b>176</b>	4.7	5.0	4.7
2	CSCN-19-2	CS 2009-313	1812	1528	1398	1422	1302	<b>1493</b>	177	158	177	5.0	4.4	3.5
3	CSCN-19-3	Giriraj (Check)	1846	1591	1390	1471	1315	<b>1522</b>	162	156	169	5.3	5.1	4.1
4	CSCN-19-4	CS 2007-165	1931	1790	1520	1581	1208	<b>1606</b>	166	157	174	4.9	4.4	4.1
5	<b>CSCN-19-5</b>	<b>Kranti (NC)</b>	<b>2062</b>	<b>1647</b>	<b>1881</b>	<b>1893</b>	<b>1908</b>	<b>1878</b>	<b>170</b>	<b>161</b>	<b>164</b>	<b>3.7</b>	<b>3.4</b>	<b>4.6</b>
6	CSCN-19-6	CS 2002-99	2010	2039	1319	1483	1568	<b>1684</b>	172	154	<b>169</b>	4.4	3.9	4.4
7	CSCN-19-7	CS 60 (LR)	2221	1926	1703	1737	1709	<b>1859</b>	183	159	<b>175</b>	4.4	4.3	5.0
8	<b>CSCN-19-8</b>	<b>CS 2005-143</b>	<b>2472</b>	<b>1972</b>	<b>1919</b>	<b>1977</b>	<b>1930</b>	<b>2054</b> *	<b>179</b>	<b>152</b>	<b>169</b>	<b>5.1</b>	<b>4.7</b>	<b>4.5</b>
		GM	<b>2046</b>	<b>1783</b>	<b>1590</b>	<b>1648</b>	<b>1559</b>	<b>1725</b>			<b>167</b>			<b>4.5</b>
		CD (5%)	351	308	338	298	295							
		C.V. (%)	9.8	9.9	12.1	10.3	11.0							
		ECe/ pH**	12ds/m	10.25 ds/m	pH9.3	12 ds/m	pH9.1							
		DOS	29.10.19	15.10.19	12.10.19	18.10.19	15.10.19							

\* Strain outyielding the best check by a margin of > 10 seed yield

**Table 2.3.30 Performance of Gobhi Sarson strains in IVT**

S.No.	Code	Strain	Seed Yield (Kg/ha)						Plant Stand					Days to Maturity					1000-seed weight (g)				
			DLK	KNG	CHT	LDH	BJR	Mean	DLK	KNG	CHT	LDH	BJR	DLK	KNG	CHT	LDH	BJR	KNG	CHT	LDH	BJR	
			1	2	3	4	5	(1-5)	1	2	3	4	5	1	2	3	4	5	2	3	4	5	
1	NCN-19-1	JGS-13-6	393	823	1695	1023	1088	<b>1004</b>		136	132	131	131	140	141	201	160	177	220	1.8	3.5	1.9	2.8
2	NCN-19-2	AKGS-19-14	840	1618	1700	2838	1881	<b>1775</b>		140	134	127	132	137	143	181	158	161	186	3.3	3.2	3.3	3.3
3	NCN-19-3	Filler (GSL 1)	372	1156	2160	2391	970	<b>1410</b>		139	131	131	126	140	144	188	152	159	185	2.9	3.4	3.2	3.7
<b>4</b>	<b>NCN-19-4</b>	<b>GSH-2196</b>	<b>1461</b>	<b>1467</b>	<b>1672</b>	<b>2791</b>	<b>1979</b>	<b>1874</b>	*	<b>137</b>	<b>132</b>	<b>126</b>	<b>135</b>	<b>139</b>	137	151	154	155	183	3.5	3.1	3.4	3.4
<b>5</b>	<b>NCN-19-5</b>	<b>AKGS-19-8</b>	<b>947</b>	<b>1576</b>	<b>1891</b>	<b>2974</b>	<b>1553</b>	<b>1788</b>	*	<b>138</b>	<b>133</b>	<b>122</b>	<b>135</b>	<b>140</b>	140	161	155	151	182	3.5	4.7	3.3	3.9
6	NCN-19-6	Kranti (NC)	937	1051	1568	2173	1192	<b>1384</b>		141	135	121	133	140	139	150	145	152	172	3.2	3.1	3.5	3.7
<b>7</b>	<b>NCN-19-7</b>	<b>GSL-1 (ZC)</b>	<b>565</b>	<b>1531</b>	<b>2286</b>	<b>2435</b>	<b>1327</b>	<b>1629</b>		<b>139</b>	<b>132</b>	<b>120</b>	<b>139</b>	<b>139</b>	146	165	156	159	183	3.1	4.6	3.2	3.8
<b>8</b>	<b>NCN-19-8</b>	<b>HNS 0702</b>	<b>1309</b>	<b>1659</b>	<b>1719</b>	<b>2481</b>	<b>1869</b>	<b>1807</b>	*	<b>139</b>	<b>133</b>	<b>119</b>	<b>136</b>	<b>139</b>	140	153	158	155	182	4.2	3.4	3.4	3.2
<b>9</b>	<b>NCN-19-9</b>	<b>GSH-2180</b>	<b>1061</b>	<b>1747</b>	<b>2123</b>	<b>2928</b>	<b>1522</b>	<b>1876</b>	*	<b>137</b>	<b>131</b>	<b>127</b>	<b>137</b>	<b>138</b>	141	160	159	161	186	2.9	3.6	3.2	4.0
10	NCN-19-10	HNS 0901	675	1451	1748	2863	1490	<b>1645</b>		137	133	133	133	140	147	158	156	157	182	2.8	3.4	3.4	3.8
11	NCN-19-11	GSC 6 (Quality check)	1144	1388	1683	2284	1268	<b>1553</b>		137	137	121	136	138	145	152	154	151	187	4.2	3.9	3.6	3.8
12	NCN-19-12	GSH-1699	620	1425	2119	2810	1801	<b>1755</b>		139	134	126	134	138	144	161	158	157	185	3.3	4.1	3.1	3.3
		GM	<b>861</b>	<b>1408</b>	<b>1864</b>	<b>2499</b>	<b>1495</b>	<b>1625</b>						<b>134</b>					<b>161</b>				<b>3.4</b>
		CD (5%)	132	146	266	345	142																
		CV (%)	9.0	6.1	8.4	13.9	5.6																
		DOS	26.10.19	11.10.19	17.10.19	24.10.19	24.10.1																

\* Strain(s) outyielding the best check by a margin of > 10 percent seed and oil yield

**Table 2.3.31a Performance of Gobhi Sarson strains in AVT-I+II**

S. No	Code	Strain	Seed Yield (Kg/ha)						Plant Stand					
			DLK	KNG	CHT	LDH	BJR\$	Mean	DLK	KNG	CHT	LDH	BJR	
			1	2	3	4	5	(1-4)	1	2	3	4	5	
1	NCN-19-13	GSL 1 (ZC)	917	1174	1833	2404	1308	1582		341	338	266	288	338
2	NCN-19-14	GSH 1707	654	1120	2143	2442	1167	1590		340	337	261	287	340
3	NCN-19-15	Filler( GSL 1)	919	1169	1857	2274	946	1555		340	336	268	289	338
4	NCN-19-16	GSH 1717	642	1083	1876	2363	1024	1491		341	338	263	286	337
5	NCN-19-17	AKMS 8141#	1100	1549	2051	2494	1382	1798		341	335	262	290	339
6	NCN-19-18	HNS 1102	923	1192	1861	2233	1263	1552		344	338	271	289	342
7	NCN-19-19	Kranti (NC)	928	998	1518	1902	908	1336		348	336	261	288	338
8	NCN-19-20	AKGS 8146	1124	1518	1882	2263	1281	1697		341	336	273	278	337
9	NCN-19-21	GSC 6 (QC)	886	1252	1845	2336	1068	1580		342	336	264	288	338
10	NCN-19-22	GSH 1699	701	1480	2224	2506	1094	1728	*	341	337	269	295	340
11	NCN-19-23	AKMS 8217	1176	1531	1817	2258	1465	1695		342	336	268	284	339
		GM	906	1279	1900	2316	1173	1600						308
		CD (5%)	131	147	285	274	121							
		CV (%)	8.6	8.0	10.4	8.2	6.0							
		DOS	26.10.19	11.10.19	16.10.19	28.10.19	24.10.19							

\* Strain(s) outyielding the best check by a margin of > 10 percent seed yield

\$ data of BJR excluded from computation of mean due to significant differences between same strain used as check/filler

# AVT II Strain

**Table 2.3.31b Performance of Gobhi Sarson strains in AVT-I+II**

S. No	Code	Strain	Days to Maturity					1000 Seed Weight				
			DLK	KNG	CHT	LDH	BJR	KNG	CHT	LDH	BJR	
			1	2	3	4	5	2	3	4	5	
<b>1</b>	<b>NCN-19-13</b>	<b>GSL 1 (ZC)</b>	<b>143</b>	<b>183</b>	<b>150</b>	<b>159</b>	<b>185</b>	<b>2.9</b>	<b>4.6</b>	<b>3.4</b>	<b>3.3</b>	
2	NCN-19-14	GSH 1707	159	188	160	167	189	3.0	3.8	3.4	3.1	
3	NCN-19-15	Filler( GSL 1)	144	182	158	158	184	3.2	3.6	3.2	3.2	
4	NCN-19-16	GSH 1717	159	190	156	165	189	3.9	3.7	3.3	2.6	
<b>5</b>	<b>NCN-19-17</b>	<b>AKMS 8141#</b>	<b>144</b>	<b>158</b>	<b>158</b>	<b>159</b>	<b>183</b>	<b>4.1</b>	<b>3.9</b>	<b>3.6</b>	<b>4.2</b>	
6	NCN-19-18	HNS 1102	134	153	151	157	182	3.6	3.8	3.1	3.7	
7	NCN-19-19	Kranti (NC)	144	148	147	151	175	3.3	3.2	3.6	3.9	
8	NCN-19-20	AKGS 8146	157	157	156	150	189	3.8	5.1	3.2	3.5	
9	NCN-19-21	GSC 6 (QC)	144	153	150	153	178	4.2	3.9	3.6	4.3	
<b>10</b>	<b>NCN-19-22</b>	<b>GSH 1699</b>	<b>157</b>	<b>169</b>	<b>161</b>	<b>167</b>	<b>183</b>	<b>3.0</b>	<b>3.8</b>	<b>3.3</b>	<b>4.1</b>	
11	NCN-19-23	AKMS 8217	145	159	152	164	184	3.7	3.6	3.6	3.8	
		GM					<b>157</b>				<b>3.6</b>	

\* Strain(s) outyielding the best check by a margin of > 10 percent seed yield

\$ data of BJR excluded from computation of mean due to significant differences between same strain used as check/filler

# AVT II Strain

**Table 2.3.32. Performance of Taramira strains in IVT+AVT-I Repeat**

S.No.	Code	Strain	Seed yield (kg/ha)					Plant Stand				Days to maturity				1000-Seed wt. (g)				
			BAW#	NAV	JOB	MOR	MEAN	BAW	NAV	JOB	MOR	BAW	NAV	JOB	MOR	BAW	NAV	JOB	MOR	
			1	2	3	4	(2-4)	1	2	3	4	1	2	3	4	1	2	3	4	
1	TMCN-19-1	RTM 1351 (LR)	196	895	879	1358	832		290	139	307	349	148	150	136	126	3.6	3.6	3.3	4.1
2	TMCN-19-2	RTM-1726	200	949	734	1391	818		288	138	295	348	148	151	134	130	3.8	3.6	4.0	4.0
3	TMCN-19-3	T-27(NC)	228	1032	830	1186	819		300	140	298	347	147	148	139	133	3.2	3.8	3.4	3.0
4	<b>TMCN-19-4</b>	<b>RTM-314 (ZC)</b>	<b>238</b>	<b>907</b>	<b>819</b>	<b>1374</b>	<b>834</b>		<b>306</b>	<b>139</b>	<b>285</b>	<b>350</b>	<b>148</b>	<b>151</b>	<b>136</b>	<b>132</b>	<b>3.5</b>	<b>3.7</b>	<b>3.9</b>	<b>3.0</b>
5	TMCN-19-5	RTM-1679	204	1049	960	1070	821		296	141	288	353	147	153	135	135	3.7	3.7	3.4	3.4
6	<b>TMCN-19-6</b>	<b>RTM 1624\$</b>	<b>213</b>	<b>1194</b>	<b>1081</b>	<b>1509</b>	<b>999</b>	*	<b>294</b>	<b>139</b>	<b>283</b>	<b>349</b>	<b>147</b>	<b>144</b>	<b>133</b>	<b>140</b>	<b>3.5</b>	<b>3.9</b>	<b>3.9</b>	<b>3.4</b>
		GM	213	1004	884	1315	854					260				139				3.6
		CD (5%)	36	130	141	161														
		CV (%)	11.3	8.6	10.6	8.0														
		DOS	18.10.19	25.10.19	21.10.19	22.10.19														

\* Starin outyielding the best check by a margin of > 10 % seed yield

# data of BAW centre excluded from computation of mean due to grand mean of expt is less than 50 % of state average

\$ AVT I Entry