

AICRP ENTOMOLOGY REPORT

KHARIF 2023

**ALL INDIA COORDINATED RESEARCH PROJECT ON MAIZE
ICAR- INDIAN INSTITUTE OF MAIZE RESEARCH
PAU CAMPUS, LUDHIANA-141004, PUNJAB**

Trial No	Title	Table No	Page No
	Executive Summary	-	1
ET 1	<i>Evaluation of AICRP entries against Spotted stem borer, Chilo partellus (Swinhoe) under artificial infestation during Kharif 2023</i>		
	Leaf Injury rating scale for spotted stem borer, <i>Chilo partellus</i> (Sarup <i>et al.</i> 1977)	1	16
	Evaluation of maize AICRP early maturity, OPV, Baby corn and sweet Corn entries (AVT I & AVT II) against <i>C. partellus</i> under artificial infestation during <i>Kharif 2023</i> (Trial No. 1171)	2	17
	Evaluation of Medium maturity entries (AVT I-II) against Spotted stem borer, <i>C. partellus</i> during <i>Kharif 2023</i> under artificial infestation (trial No. 1174)	3	19
	Evaluation of Late maturity Entries (AVT I-II) against Spotted stem borer, <i>C. partellus</i> (Swinhoe) during <i>Kharif 2023</i> under artificial infestation (Trial No. 1173)	4	20
	Evaluation of QPM entries (I-II-III) against Spotted stem borer <i>C. partellus</i> (Swinhoe) during <i>Kharif 2023</i> under artificial infestation (Trial No. 1175)	5	22
ET 2	<i>Evaluation of maize AICRP entries against fall armyworm, Spodoptera frugiperada (J. E. Smith) under artificial infestation during Kharif 2023</i>		
	<i>Evaluation of maize AICRP entries of early maturity, OPV, Baby corn and sweet Corn entries (AVT I and II) against fall armyworm under artificial infestation during Kharif 2023 (Trial 1171)</i>		
	Leaf Damage Rating (LDR) scale to categorize maize germplasm for resistance to FAW (Soujanya <i>et al.</i> , 2022)	6	24
	Ratings for ear and kernel damage caused by FAW (Davis and Williams, 1992)	7	24
	Evaluation of AICRP entries of early maturity, OPV, Baby corn and sweet Corn entries (AVT I and II) against fall armyworm under artificial infestation during Kharif, 2023 (Trial No, 1171) Location: Imphal	8	25
	Evaluation of AICRP entries of early maturity, OPV, Baby corn and sweet Corn entries (AVT I and II) against fall armyworm under artificial infestation during Kharif, 2023 (Trial No, 1171) Location: Ludhiana	9	27
	Evaluation of AICRP entries of early maturity, OPV, Baby corn and sweet Corn entries (AVT I and II) against fall armyworm under artificial infestation during Kharif, 2023 (Trial No, 1171) Location: Coimbatore	10	29
	Evaluation of AICRP entries of early maturity, OPV, Baby corn and sweet Corn entries (AVT I and II) against fall armyworm under artificial infestation during Kharif, 2023 (Trial No 1171) Location: Hyderabad	11	31
	Evaluation of AICRP entries of early maturity, OPV, Baby corn and	12	33

sweet Corn entries (AVT I and II) against fall armyworm under artificial infestation during Kharif, 2023 (Trial No 1171) Location: Kolhapur		
Evaluation of AICRP entries of early maturity, OPV, Baby corn and sweet Corn entries (AVT I and II) against fall armyworm under artificial infestation during Kharif, 2023 (Trial No, 1171) Mean of all the locations (across zones)	13	35
Evaluation of maize AICRP entries of Medium maturity (AVT I and II) against fall armyworm under natural infestation during Kharif 2023 (Trial No, 1174)		
Evaluation of Medium maturity entries (AVT I-II) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 (Trial No.1174) Location: Imphal	14	37
Evaluation of Medium maturity entries (AVT I-II) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 (Trial No.1174) Location: Ludhiana	15	38
Evaluation of Medium maturity entries (AVT I-II) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 (Trial No.1174) Location: Coimbatore	16	39
Evaluation of Medium maturity entries (AVT I-II) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 (Trial No.1174) Location: Hyderabad	17	40
Evaluation of medium maturity entries (AVT I-II) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 under artificial infestation (Trial No.1174) Location: Kolhapur	18	41
Evaluation of medium maturity entries (AVT I-II) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 (Trial No.1174) Mean of all the locations (across zones)	19	42
Evaluation of maize AICRP entries of Late maturity (AVT I and II) against fall armyworm under artificial infestation during Kharif, 2020 (Trial No, 1173)		
Evaluation of Late maturity (AVT I-II) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 (Trial No. 1173) Location: Imphal	20	43
Evaluation of Late maturity (AVT I-II) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 (Trial No. 1173) Location: Ludhiana	21	45
Evaluation of Late maturity (AVT I-II) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 (Trial No. 1173) Location: Coimbatore	22	47
Evaluation of Late maturity (AVT I-II) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 (Trial No. 1173) Location: Hyderabad	23	49
Evaluation of Late maturity (AVT I-II) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 (Trial No. 1074) Location: Kolhapur	24	51

Evaluation of Late maturity (AVT I-II) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 (Trial No. 1173) Mean of all locations (across zones)	25	53
Evaluation of QPM entries (I-II-III) against fall armyworm under artificial infestation during Kharif 2023 (Trial No 1175)		
Evaluation of QPM entries (AVT I-II-III) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 natural artificial infestation (Trial No. 1175) Location: Imphal	26	55
Evaluation of QPM entries (AVT I-II-III) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 natural artificial infestation (Trial No. 1175) Location: Ludhiana	27	57
Evaluation of QPM entries (AVT I-II-III) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 natural artificial infestation (Trial No. 1175) Location: Coimbatore	28	59
Evaluation of QPM entries (AVT I-II-III) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 natural artificial infestation (Trial No. 1175) Location: Hyderabad	29	61
Evaluation of QPM entries (AVT I-II-III) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 natural artificial infestation (Trial No. 1175) Location: Kolhapur	30	63
Evaluation of QPM entries (AVT I-II-III) against fall armyworm under artificial infestation during <i>Kharif</i> 2023 natural artificial infestation (Trial No. 1075) Mean of all locations (across zones)	31	65

Executive Summary

ET 1 Evaluation of AICRP entries against stem borers under artificial infestation during Kharif 2023

During *Kharif* 2023, a total of 108 entries belonging to four AICRP trials of early (12), medium (22), late (31) maturity groups, OPV (3), Sweet corn (5), baby corn (8) and QPM (27) was evaluated against spotted stem borer *Chilo partellus* (Swinhoe) under artificial infestation. AICRP locations North West Plain Zone (NWPZ) represented by Karnal; North East Plain Zone (NEPZ) by Dholi and Peninsular Zone (PZ) by Hyderabad, Kolhapur respectively. The entries were evaluated by pinning 10-12 black-headed eggs of *C. partellus* laid on butter paper in the whorl of the plant. The plants were observed for the leaf injury rating on 1-9 scale at 35 days after infestation based on the 1-9 rating scale (Table 1). The resistant, moderately resistant and susceptible entries are defined by LIR 1-3, >3-6 and >6-9 respectively

The response of the entries against *C. partellus* in different groups is presented below.

- *OPV*: Out of three entries evaluated against *C. partellus* under artificial infestation (Table 2), based on the overall mean LIR none of the entries were found to be resistant and all the four entries were moderately resistant with LIR between 3.88 (ADC 4)- 4.59 (KDM 33).
- *Baby Corn*: A total of eight baby corn entries were evaluated against *C. partellus* under artificial infestation (Table 2), all the eight entries were found to be moderately resistant with overall mean LIR across the locations ranged from 4.07 (IBH11 223 and IBH11 227) to 4.42 (LBCH 2321).
- *Sweet Corn*: Out of four sweet corn entries evaluated against *C. partellus* under artificial infestation, all four entries showed moderately resistant reaction against spotted stem borer and the overall mean LIR ranged from 4.02 (APTSKH 1) to 4.72 (APSKH 1) respectively (Table 2).
- *Early Maturity group*: Out of six entries of the AVT I early maturity group screened under artificial infestation against *C. partellus*, based on the overall mean LIR across the locations (Table 2), none of the entries were found to be resistant and all the eighteen entries were moderately resistant. The overall mean LIR ranged from 3.85 (OMH 22-4) to 4.47 (AHD 8751). In AVT II early maturity group, of the six entries screened against *C. partellus*, all the six entries were found to be moderately resistant to the stem borer. The overall mean LIR ranged from 3.80 (AH 8323) to 4.64 (CP 111).
- *Medium Maturity group*: Out of eighteen entries of the AVT I medium maturity group screened under artificial infestation against *C. partellus* (Table 3), based on the overall mean of LIR across the locations, none of the entries were found to be resistant and all the eighteen entries were moderately resistant and the overall mean LIR ranged from 4.22 (IQ 8393) to 5.47 (AHD 2077). Of the four entries of AVT II medium maturity group the

screened against spotted stem borer, overall mean LIR ranged from 4.58 (IMHSB 20K-10) to 5.37 (HM 21204).

- *Late Maturity group*: Out of twenty-six entries of the AVT I late maturity group screened under artificial infestation against *C. partellus* (Table 4), none of the entries were found resistant, all the twenty-three entries were moderately resistant to spotted stem borer and the mean LIR ranged from 3.60 (PM 21111 L) to 5.27 (SYN 223671L). Of the four entries of AVT II Late maturity group screened against spotted stem borer all the four entries were found be moderately resistant to *C. partellus* and the overall mean LIR ranged from 4.35 (ADV 7211) to 4.67 (BIO 207).
- *QPM*: A total of fourteen AVT I QPM entries were evaluated against *C. partellus* under artificial infestation (Table 5), all the fourteen entries showed moderately resistant response against spotted stem borer. Based on the overall mean LIR the maximum and minimum LIR of 4.15 and 4.86 recorded in FMH 24 and IQPMH 2111, respectively. A total of thirteen AVT II QPM entries were evaluated against *C. partellus* under artificial infestation (Table 5), all the thirteen entries showed moderately resistant response against spotted stem borer. Based on the overall mean LIR the maximum and minimum LIR of 3.76 and 5.13 recorded in IQPMH 2108 and FQPLH 20, respectively (Table 5).

ET 2 Evaluation of maize AICRP entries against fall armyworm under artificial infestation during Kharif 2023

During *Kharif* 2023, a total of 108 entries belonging to four AICRP trials of early (12), medium (22), late (31) maturity groups, OPV (3), Sweet corn (5), baby corn (8) and QPM (27) was evaluated against fall armyworm, *Spodoptera frugiperda* (J.E. Smith) under artificial infestation by releasing 5 neonate larvae per plat at V5 stage of the crop. The evaluation was carried out during *Kharif* 2023 at the AICRP locations- North Hill Zone represented by Imphal; North West Plain Zone by Ludhiana; Peninsular Zone (PZ) by Coimbatore, Hyderabad Kolhapur, and Central Western Zone (CWZ) by Udaipur respectively. The data on leaf damage rating (LDR) on 1-9 scale was recorded at 2 and 4 weeks after infestation (Soujanya et.al. 2022) (Table 6) and ear damage at harvest was recorded in the Sweet corn entries only (Davis Score on 1-9 scale, (Davis and Williams, 1992) (Table 7).

Screening of OPV, Baby corn sweet corn and Early Maturity group against fall army worm (Trial No 1171):

The data on Leaf damage rating (LDR) on 1-9 Scale against fall armyworm of the OPV, Baby corn Sweet Corn and Early maturity (AVT I and II) entries at 2 and 4 weeks after infestation at Imphal, Ludhiana, Coimbatore, Hyderabad, and Kolhapur is presented in Tables 8 - 12 and whereas overall mean of five locations of all the four zones at 2 and 4 weeks after infestation is presented in Tables 13.

- **Screening of OPV entries against fall army worm(Trial No 1171) :** A total of three OPV entries were evaluated against fall armyworm under artificial infestation at Imphal, Ludhiana, Coimbatore, Hyderabad and Kolhapur locations and the mean LDR data at 2 and 4 WAI is presented in Tables 8-12 respectively.

The mean LDR data (1-9 scale) of OPV entries of Imphal location at 2 and 4 WAI is presented in Table 8. The LDR ranged from 5.00 (KDM 33) to 6.50 (ADC 3 & ADC 4) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 6.50 (KDM 33) to 8.00 (ADC 3) respectively. Whereas the overall mean LDR was lowest in KDM 33 (5.75) and the highest in ADC 3 (7.25) respectively. Mean Davis score on 1-9 Scale for ear damage at harvest ranged from 1.50 (ADC 4) to 2.33 (ADC 3).

Ludhiana: The mean LDR data (1-9 scale) at 2 and 4 WAI of the Ludhiana location is presented in Table 9. The LDR ranged from 4.11 (KDM 33) to 4.70 (ADC 4) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 3.15 (KDM 33) to 4.85 (ADC 4) respectively. Whereas the overall mean LDR was lowest in ADC 3 (2.71) and the highest in KDM 33 (4.08) respectively. Mean Davis score on 1-9 Scale for ear damage at harvest ranged from 2.90 (ADC 3) to 3.41 (KDM 33).

Coimbatore: The mean LDR data (1-9 scale) at 2 and 4 WAI of the Coimbatore location is presented in Table 10. The LDR ranged from 1.27 (ADC 3) to 5.01 (KDM 33) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 3.15 (KDM 33) to 4.85 (ADC 4) respectively. Whereas the overall mean LDR was lowest in ADC 3 (2.71) and the highest in KDM 33 (4.08) respectively.

Hyderabad: The mean LDR data (1-9 scale) at 2 and 4 WAI of Hyderabad location is presented in Table 11. The LDR ranged from 4.26 (ADC 4) to 4.44 (ADC 3) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.99 (ADC 3) to 8.00 (KDM 33) respectively. Whereas the overall mean LDR was lowest in ADC 3 (5.22) and the highest in KDM 33 (6.14) respectively. Davis score on 1-9 Scale for ear damage at harvest ranged from 2.00 (ADC 3) to 5.50 (KDM 33).

Kolhapur: The mean LDR data (1-9 scale) at 2 and 4 WAI of the Kolhapur location is presented in Table 12. The LDR ranged from 5.10 (ADC 4) to 5.50 (KDM 33) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.55 (ADC 3) to 5.85 (KDM 33) respectively. Whereas the overall mean LDR was lowest in ADC 3, ADC 4 (5.35) and the highest in KDM 33 (5.68) respectively.

Across locations: The mean LDR data (1-9 scale) of across location at 2 and 4 WAI is presented in Table 13. The LDR ranged from 4.37 (ADC 3) to 4.78 (KDM 33) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.58 (KDM 33) to 6.08 (ADC 4) respectively. Whereas the overall mean LDR was lowest in ADC 3 (5.03) and the highest in ADC 4 (5.33) respectively.

Screening of Baby corn entries against fall army worm(Trial No. 1171): : A total of eight baby corn entries were evaluated against fall armyworm under artificial infestation at Imphal,

Ludhiana, Coimbatore, Hyderabad and Kolhapur locations and the mean LDR data at 2 and 4 WAI is presented in Tables 8-12 respectively

Imphal: The mean LDR data (1-9 scale) for eight baby corn entries of Imphal location at 2 and 4 WAI against fall armyworm is presented in Table 8. The LDR ranged from 3.00 (JH 32484) to 7.00 (IMHSB 19KB-2) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 6.00 (JH 32484) to 8.50 (JH 32434) respectively. Whereas the overall mean LDR was lowest in JH 32484 (4.50) and the highest in IMHSB 19KB-2, JH 32434 (7.25) respectively. Mean Davis score on 1-9 Scale for ear damage at harvest ranged from 1.17 (IBH11 223) to 2.67 (JH 32434).

Ludhiana: The mean LDR data (1-9 scale) for eight baby corn entries of Ludhiana location at 2 and 4 WAI against fall armyworm is presented in Table 9. The LDR ranged from 3.83 (IBH11 223) to 4.79 (IBH11 227) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.06 (IBH11 223) to 4.77 (JH 32484) respectively. Whereas the overall mean LDR was lowest in IBH11 223 (3.95) and the highest in IBH11 227 (4.71) respectively. Mean Davis score on 1-9 Scale for ear damage at harvest ranged from 2.62 (IBH11 227) to 3.83 (IBH11 223).

Coimbatore: The mean LDR data (1-9 scale) for eight baby corn entries at 2 and 4 WAI of the Coimbatore location against fall armyworm is presented in Table 10. The mean LDR ranged from 1.92 (JH 32434) to 4.72 (IBH11 223) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 3.15 (IMHSB 19KB-2) to 5.79 (ABHS 27) respectively. Whereas the overall mean LDR was lowest in IMHSB 19KB-2 (2.97) and the highest in ABHS 27 (5.13) respectively.

Hyderabad: The mean LDR data (1-9 scale) for eight baby corn entries at 2 and 4 WAI of Hyderabad location against fall armyworm is presented in Table 11. The LDR ranged from 4.00 (JH 32048) to 4.61 (LBCH 2321) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 6.64 (ABHS 27) to 8.00 (IBH11 227) respectively. Whereas the overall mean LDR was lowest in JH 32048 (5.36) and the highest in IBH11 227 (6.30) respectively. Davis score on 1-9 Scale for ear damage at harvest ranged from 2.00 (LBCH 2321) to 5.13 (JH 32484).

Kolhapur: The mean LDR data (1-9 scale) for eight baby corn entries at 2 and 4 WAI of the Kolhapur location against fall armyworm is presented in Table 12. The mean LDR ranged from 4.15 (JH 32484) to 5.50 (LBCH 2321) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.05 (JH 32048) to 5.90 (LBCH 2321) respectively. Whereas the overall mean LDR was lowest in JH 32048 (4.65) and the highest in LBCH 2321 (5.70) respectively.

Across locations: The mean LDR data (1-9 scale) for eight baby corn entries of across location at 2 and 4 WAI against fall armyworm is presented in Table 13. The LDR ranged from 3.77 (JH 32484) to 4.84 (ABHS 27) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.47 (IBH11 223) to 6.27 (JH 32434) respectively. Whereas the overall mean LDR was lowest in JH 32484 (4.76) and the highest in ABHS 27 (5.35) respectively.

Screening of Sweet corn entries against fall army worm (Trial No. 1171): A total of five sweet corn entries were evaluated against fall armyworm under artificial infestation at Imphal, Ludhiana, Coimbatore, Hyderabad and Kolhapur locations and the mean LDR data at 2 and 4 WAI is presented in Tables 8-12 respectively.

Imphal: The mean LDR data (1-9 scale) for five sweet corn entries of Imphal location at 2 and 4 WAI against fall armyworm is presented in Table 8. The LDR ranged from 3.01 (CP GOLDEN) to 8.00 (FSCH 131) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.50 (APSKH 1) to 8.00 (FSCH 131) respectively. Whereas the overall mean LDR was lowest in CP GOLDEN (4.07) and the highest in FSCH 131 (8.00) respectively. Mean Davis score on 1-9 Scale for ear damage at harvest ranged from 1.17 (APTSKH 1) to 2.19 (CP GOLDEN).

Ludhiana: The mean LDR data (1-9 scale) for five sweet corn entries of Ludhiana location at 2 and 4 WAI against fall armyworm is presented in Table 9. The LDR ranged from 4.02 (CP GOLDEN) to 4.51 (ISH 6-2104) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.34 (FSCH 131) to 5.15 (APSKH 1) respectively. Whereas the overall mean LDR was lowest in CP GOLDEN (4.28) and the highest in APSKH 1 (4.78) respectively. Mean Davis score on 1-9 Scale for ear damage at harvest ranged from 3.44 (FSCH 131) to 3.89 (APTSKH 1).

Coimbatore: The mean LDR data (1-9 scale) for five sweet corn entries at 2 and 4 WAI of the Coimbatore location against fall armyworm is presented in Table 10. The mean LDR ranged from 2.30 (APSKH 1) to 4.61 (ISH 6-2104) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 2.66 (FSCH 131) to 4.88 (ISH 6-2104) respectively. Whereas the overall mean LDR was lowest in FSCH 131 (2.93) and the highest in ISH 6-2104 (4.75) respectively.

Hyderabad: The mean LDR data (1-9 scale) for five sweet corn entries at 2 and 4 WAI of Hyderabad location against fall armyworm is presented in Table 11. The LDR ranged from 4.09 (ISH 6-2104) to 4.46 (APTSKH 1) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.43 (APSKH 1) to 6.93 (ISH 6-2104) respectively. Whereas the overall mean LDR was lowest in APSKH 1 (4.76) and the highest in APTS KH 1 (5.66) respectively. Mean Davis score on 1-9 Scale for ear damage at harvest ranged from 1.00 (FSCH 131) to 4.50 (ISH 6-2104).

Kolhapur: The mean LDR data (1-9 scale) for five sweet corn entries at 2 and 4 WAI of the Kolhapur location against fall armyworm is presented in Table 12. The mean LDR ranged from 4.65 (ISH 6-2104) to 5.30 (FSCH 131) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.55 (APSKH 1, APTS KH 1 & CP GOLDEN) to 5.75 (FSCH 131 & ISH 6-2104) respectively. Whereas the overall mean LDR was lowest in ISH 6-2104 (5.20) and the highest in FSCH 131 (5.53) respectively.

Across locations: The mean LDR data (1-9 scale) for five sweet corn entries of across location at 2 and 4 WAI against fall armyworm is presented in Table 13. The LDR ranged from 3.80 (CP GOLDEN) to 5.02 (FSCH 131) at 2 weeks after infestation. The mean LDR at

4 WAI ranged from 4.93 (APSKH 1) to 5.79 (ISH 6-2104) respectively. Whereas the overall mean LDR was lowest in CP GOLDEN (4.39) and the highest in ISH 6-2104 (5.33) respectively.

Screening of Early maturity entries against fall army worm(Trial No. 1171):

Early Maturity group: A total of twelve entries of Early maturity group (6 each from AVT I and AVT II) were evaluated against fall armyworm under artificial infestation at Imphal, Ludhiana, Coimbatore, Hyderabad, and Kolhapur. The data on Leaf damage rating (LDR) on 1-9 Scale against fall armyworm of the Early maturity (AVT I and II) entries at 2 and 4 weeks after infestation (WAI) is presented in Tables 8 - 12 and whereas overall mean of five locations of all the four zones at 2 and 4 weeks after infestation is presented in Table 13.

Imphal:

AVT I Early maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for six entries in Early maturity (AVTI I) group at Imphal location is presented in Table 8. The LDR ranged from 4.50 (AHD 8751) to 7.50 (SMH 9099) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.50 (AHD 2008) to 8.00 (OMH 22-4) respectively. Whereas the overall mean LDR was lowest in AHD 2008 (4.75) and the highest in SMH 9099 (7.50) respectively. Mean Davis score on 1-9 scale for ear damage at harvest ranged from 1.00 (AHD 2008) to 2.33 (SMH 9099).

AVT II Early maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for six entries in Early maturity (AVT II) group at Imphal location is presented in Table 8. The LDR ranged from 4.50 (SMH 4555) to 6.50 (JH 32662) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.00 (JH 32487) to 8.00 (CP 111) respectively. Whereas the overall mean LDR was lowest in JH 32487 (5.00) and the highest in CP 111 (7.00). Mean Davis score on 1-9 scale for ear damage at harvest ranged from 1.00 (JH 32662) to 2.33 (CP 111).

Ludhiana:

AVT I Early maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for six entries in Early maturity (AVTI I) group at Ludhiana location is presented in Table 9. The LDR ranged from 3.93 (AHD 2008) to 4.83 (OMH 22-4) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.08 (AHD 2008) to 4.91 (OMH 22-4) respectively. Whereas the overall mean LDR was lowest in AHD 2008 (4.01) and the highest in OMH 22-4 (4.87) respectively. Mean Davis score on 1-9 scale for ear damage at harvest ranged from 2.43 (IX 7851) to 3.28 (SMH 9099).

AVT II Early maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for six entries in Early maturity (AVT II) group at Ludhiana location is presented in Table 9. The LDR ranged from 4.07 (CP 111) to 4.95 (AH 8323) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.42 (SMH 4555) to 5.11 (CP 111)

respectively. Whereas the overall mean LDR was lowest in SMH 4555 (4.52) and the highest in AH 8323 (4.85). Mean Davis score on 1-9 scale for ear damage at harvest ranged from 2.65 (AH 8323) to 3.23 (CP 111).

Coimbatore:

AVT I Early maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for six entries in Early maturity (AVTI I) group at Ludhiana location is presented in Table 10. The LDR ranged from 1.53 (AHD 2008) to 3.96 (SMH 9099) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 3.32 (AHD 8751) to 4.73 (SRMH 99M66) respectively. Whereas the overall mean LDR was lowest in IX 7851 (2.69) and the highest in SMH 9099 (4.06) respectively.

AVT II Early maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for six entries in Early maturity (AVTI I) group at Ludhiana location is presented in Table 10. The LDR ranged from 1.34 (JH 32487) to 2.73 (CP 999) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 3.58 (JH 32662) to 5.75 (JH 32487) respectively. Whereas the overall mean LDR was lowest in JH 32662 (3.14) and the highest in CP 999 (3.61) respectively.

Hyderabad:

AVT I Early maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for six entries in Early maturity (AVTI I) group at Hyderabad location is presented in Table 11. The LDR ranged from 3.98 (AHD 2008) to 4.55 (OMH 22-4) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 6.10 (SRMH 99M66) to 8.00 (OMH 22-4) respectively. Whereas the overall mean LDR was lowest in SRMH 99M66 (5.20) and the highest in OMH 22-4 (6.28) respectively. Mean Davis score on 1-9 scale for ear damage at harvest ranged from 1.00 (AHD 8751) to 3.77 (IX 7851).

AVT II Early maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for six entries in Early maturity (AVT II) group at Hyderabad location is presented in Table 11. The LDR ranged from 3.76 (SMH 4555) to 4.73 (CP 111) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 7.10 (SMH 4555) to 7.54 (CP 999) respectively. Whereas the overall mean LDR was lowest in AH 8323 (5.90) and the highest in CP 111 (6.03).

Kolhapur:

AVT I Early maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for six entries in Early maturity (AVTI I) group at Kolhapur location is presented in Table 12. The LDR ranged from 3.98 (AHD 2008) to 5.65 (IX 7851) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.05 (AHD 2008) to 5.90 (IX 7851)

respectively. Whereas the overall mean LDR was lowest in AHD 2008 (4.68) and the highest in IX 7851 (5.78) respectively.

AVT II Early maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for six entries in Early maturity (AVT II) group Kolhapur location is presented in Table 12. The LDR ranged from 4.70 (SMH 4555) to 5.55 (JH 32487) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.05 (SMH 4555) to 5.90 (JH 32487) respectively. Whereas the overall mean LDR was lowest in SMH 4555 (4.88) and the highest in JH 32487 (5.73).

Across locations:

AVT I Early maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for six entries in Early maturity (AVT I) group across locations is presented in Table 13. The LDR ranged from 3.75 (AHD 2008) to 5.11 (SMH 9099) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.15 (AHD 2008) to 6.21 (OMH 22-4) respectively. Whereas the overall mean LDR was lowest in AHD 2008 (4.45) and the highest in SMH 9099 (5.41) respectively

AVT II Early maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for six entries in Early maturity (AVT II) group at across locations is presented in Table 13. The LDR ranged from 4.02 (SMH 4555) to 4.64 (JH 32662) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.43 (SMH 4555) to 6.29 (CP 111) respectively. Whereas the overall mean LDR was lowest in SMH 4555 (4.73) and the highest in CP 111 (5.36).

Screening of Medium maturity group against fall armyworm (Trial No. 1174):

A total of twenty two entries of Medium maturity group (18 entries from AVT I and 4 entries from AVT II) were evaluated against fall armyworm under artificial infestation at Imphal, Ludhiana, Coimbatore, Hyderabad, and Kolhapur. The data on Leaf damage rating (LDR) on 1-9 Scale against fall armyworm of the Medium maturity (AVT I and II) entries at 2 and 4 weeks after infestation (WAI) is presented in Tables 14-18 and whereas overall mean of five locations of all the four zones at 2 and 4 weeks after infestation is presented in Table 19.

Imphal:

AVT I Medium maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for eighteen entries in medium maturity (AVT I) group at Imphal location is presented in Table 14. The LDR ranged from 2.00 (IM 36511) to 7.00 (CP 509) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 6.00 (BH 417144, IMH 2-22K-7) to 8.50 (AHD 2077, KMH 8111) respectively. Whereas the overall mean LDR was lowest in IM 36511 (4.50) and the highest in CP 509 (7.50) respectively. Mean Davis score on 1-9 scale for ear damage at harvest ranged from 1.17 (CP 509) to 2.67 (PM 22101).

AVT II Medium maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for four entries in medium maturity (AVT II) group at Imphal location is presented in Table 14. The LDR ranged from 4.00 (JKMH 4546) to 5.50 (HM 21204, PM 21103M) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 7.00 (IMHSB 20K-10) to 8.00 (JKMH 4546, PM 21103M) respectively. Whereas the overall mean LDR was lowest in IMHSB 20K-10 (5.75) and the highest in PM 21103M (6.75). Mean Davis score on 1-9 scale for ear damage at harvest ranged from 1.50 (IMHSB 20K-10) to 2.33 (HM 21204).

Ludhiana:

AVT I Medium maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for eighteen entries in medium maturity (AVTI I) group at Ludhiana location is presented in Table 15. The LDR ranged from 3.52 (IMH 2-22K-6) to 4.32 (IMH 9-222) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 3.97 (IMH 2-22K-6) to 5.12 (JKMH 4059) respectively. Whereas the overall mean LDR was lowest in IMH 2-22K-6 (3.75) and the highest in JKMH 4059 (4.57) respectively. Mean Davis score on 1-9 scale for ear damage at harvest ranged from 2.52 (IQ 8393) to 3.19 (IW 8477).

AVT II Medium maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for four entries in medium maturity (AVT II) group at Ludhiana location is presented in Table 15. The LDR ranged from 3.49 (IMHSB 20K-10) to 3.93 (JKMH 4546) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.35 (IMHSB 20K-10, HM 21204) to 4.85 (PM 21103M) respectively. Whereas the overall mean LDR was lowest in IMHSB 20K-10 (3.92) and the highest in JKMH 4546 (4.38). Mean Davis score on 1-9 scale for ear damage at harvest ranged from 2.48 (PM 21103M) to 3.20 (IMHSB 20K-10).

Coimbatore:

AVT I Medium maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for eighteen entries in medium maturity (AVTI I) group at Coimbatore location is presented in Table 16. The LDR ranged from 3.40 (PM 22101) to 6.50 (BH 417144) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 2.40 (PM 22101) to 5.00 (AHD 2077) respectively. Whereas the overall mean LDR was lowest in PM 22101 (2.90) and the highest in BH 417144 (5.28) respectively.

AVT II Medium maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for four entries in medium maturity (AVT II) group at Coimbatore location is presented in Table 16. The LDR ranged from 4.27 (HM 21204) to 5.88 (JKMH 4546) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 3.90 (PM 21103M) to 4.35 (JKMH 4546) respectively. Whereas the overall mean LDR was lowest in HM 21204 (4.11) and the highest in JKMH 4546 (5.12).

Hyderabad:

AVT I Medium maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for eighteen entries in medium maturity (AVTI I) group at Hyderabad location is presented in Table 17. The LDR ranged from 5.13 (IMH 2-22K-6) to 8.03 (RCRMH 20) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 6.15 (AHD 2077) to 7.36 (KMH 8111) respectively. Whereas the overall mean LDR was lowest in IMH 2-22K-6 (5.94) and the highest in RCRMH 20 (7.41) respectively. Mean Davis score on 1-9 scale for ear damage at harvest ranged from 2.25 (PM 22101) to 6.00 (IM 36511).

AVT II Medium maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for four entries in medium maturity (AVT II) group at Hyderabad location is presented in Table 17. The LDR ranged from 6.01 (IMHSB 20K-10) to 7.49 (PM 21103M) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.44 (IMHSB 20K-10, HM 21204) to 7.29 (HM 21204) respectively. Whereas the overall mean LDR was lowest in IMHSB 20K-10 (5.73) and the highest in PM 21103M (6.98). Mean Davis score on 1-9 scale for ear damage at harvest ranged from 3.98 (PM 21103M) to 4.88 (IMHSB 20K-10).

Kolhapur:

AVT I Medium maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for eighteen entries in medium maturity (AVTI I) group at Hyderabad location is presented in Table 18. The LDR ranged from 3.80 (RCRMH 20) to 5.60 (IM 36511) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.40 (RCRMH 20) to 6.05 (IM 36511) respectively. Whereas the overall mean LDR was lowest in RCRMH 20 (4.10) and the highest in IM 36511 (5.83) respectively.

AVT II Medium maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for four entries in medium maturity (AVT II) group at Hyderabad location is presented in Table 18. The LDR ranged from 4.40 (JKMH 4546) to 5.05 (IMHSB 20K-10) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.95 (JKMH 4546) to 5.60 (IMHSB 20K-10) respectively. Whereas the overall mean LDR was lowest in JKMH 4546 (4.68) and the highest in IMHSB 20K-10 (5.33).

Across locations:

AVT I Medium maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for eighteen entries in medium maturity (AVTI I) group based on across the locations is presented in Table 19. The LDR ranged from 4.57 (PM 22101) to 5.68 (IMH 9-222) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.03 (IMH 2-22K-7) to 6.14 (KMH 8111) respectively. Whereas the overall mean LDR was lowest in PM 22101 (4.85) and the highest in IMH 9-222 (5.71) respectively.

AVT II Medium maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for four entries in medium maturity (AVT II) group based on across the locations is presented in Table 19. The LDR ranged from 4.93 (IMHSB 20K-10) to 5.33 (PM 21103M) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.31 (IMHSB 20K-10) to

5.70 (HM 21204) respectively. Whereas the overall mean LDR was lowest in IMHSB 20K-10 (5.12) and the highest in PM 21103M (5.50).

Screening of Late maturity entries against fall armyworm (Trial No. 1173):

A total of thirty entries of Late maturity group (26 entries from AVT I and 4 entries from AVT II) were evaluated against fall armyworm under artificial infestation at Imphal, Ludhiana, Coimbatore, Hyderabad, and Kolhapur. The data on Leaf damage rating (LDR) on 1-9 Scale against fall armyworm of the Medium maturity (AVT I and II) entries at 2 and 4 weeks after infestation (WAI) is presented in Tables 20-24 and whereas overall mean of five locations of all the four zones at 2 and 4 weeks after infestation is presented in Table 25.

Imphal:

AVT I Late maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for twenty six entries in Late maturity (AVTI I) group at Imphal location is presented in Table 20. The LDR ranged from 3.50 (SUPER 2727) to 6.00 (AM 05674) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 6.00 (NS 8007, PM22112) to 8.50 (PM 21111 L) respectively. Whereas the overall mean LDR was lowest in NS 8007, SYN 223671L (5.25) and the highest in PM 21111 L (7.00) respectively.

AVT II Late maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for four entries in Late maturity (AVT II) group at Imphal location is presented in Table 20. The LDR ranged from 4.00 (BIO 207) to 6.50 (R 8050) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 6.50 (BIO 207) to 9.00 (R 8050) respectively. Whereas the overall mean LDR was lowest in BIO 207 (5.25) and the highest in R 8050 (7.75).

Ludhiana:

AVT I Late maturity : The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for twenty six entries in Late maturity (AVTI I) group at Ludhiana location is presented in Table 20. The LDR ranged from 3.78 (SYN 221610L) to 4.87 (HARLAL 24) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.27 (PM 22112) to 4.99 (SUPER 2727) respectively. Whereas the overall mean LDR was lowest in SYN 221610L (4.21) and the highest in HARLAL 24 (4.90) respectively.

AVT II Late maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for four entries in Late maturity (AVT II) group at Ludhiana location is presented in Table 21. The LDR ranged from KMH 8333 (BIO 207) to 6.50 (R 8050) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 6.50 (BIO 207) to 9.00 (R 8050) respectively. Whereas the overall mean LDR was lowest in BIO 207 (5.25) and the highest in R 8050 (7.75).

Coimbatore:

AVT I Late maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for twenty six entries in Late maturity (AVTI I) group at Coimbatore location is presented in Table 22. The LDR ranged from 2.26 (BH 417177) to 5.84 (SYN 223671L) at 2 weeks after

infestation. The mean LDR at 4 WAI ranged from 2.13 (BH 417177) to 5.12 (PM 22112) respectively. Whereas the overall mean LDR was lowest in BH 417177 (2.20) and the highest in KMH 8206 (4.98) respectively.

AVT II Late *maturity*: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for four entries in Late maturity (AVT II) group at Coimbatore location is presented in Table 22. The LDR ranged from 3.30 (R 8050) to 5.69 (ADV 7211) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 3.42 (R 8050) to 4.33 (BIO 207) respectively. Whereas the overall mean LDR was lowest in R 8050 (4.11) and the highest in ADV 7211 (5.00).

Hyderabad:

AVT I Late *maturity*: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for twenty six entries in Late maturity (AVTI I) group at Hyderabad location is presented in Table 23. The LDR ranged from 6.43 (NS 8011) to 8.00 (CP 988, KMH 8208, KMH 8388& PM 22106) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.90 (HARLAL 24) to 7.68 (BH 417018) respectively. Whereas the overall mean LDR was lowest in NS 8011 (6.24) and the highest in BH 417018 (7.72) respectively.

AVT II Late *maturity*: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for four entries in Late maturity (AVT II) group at Hyderabad location is presented in Table 23. The LDR ranged from 6.81 (BIO 207) to 8.00 (KMH 8333) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 6.83 (R 8050) to 7.65 (BIO 207) respectively. Whereas the overall mean LDR was lowest in R 8050 (7.31) and the highest in KMH 8333 (7.72).

Kolhapur:

AVT I Late: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for twenty six entries in Late maturity (AVTI I) group at Kolhapur location is presented in Table 24. The LDR ranged from 4.05 (PM 22117) to 5.70 (HARLAL 24) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.00 (PM 22113) to 7.30 (SMH 235) respectively. Whereas the overall mean LDR was lowest in PM 21111 L (5.10) and the highest in SMH 235 (6.20) respectively.

AVT II Late *maturity*: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for four entries in Late maturity (AVT II) group at Kolhapur location is presented in Table 24. The LDR ranged from 4.70 (ADV 7211, R 8050) to 4.90 (KMH 8333) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.80 (R 8050) to 7.15 (ADV 7211) respectively. Whereas the overall mean LDR was lowest in R 8050 (4.75) and the highest in ADV 7211 (5.93).

Across locations:

AVT I Late *maturity*: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for twenty six entries in Late maturity (AVTI I) group based on across the locations is presented in Table 25. The LDR ranged from 4.60 (SUPER 2727) to 5.66 (BH 417018) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.47 (NS 8011) to 6.43 (SMH

235) respectively. Whereas the overall mean LDR was lowest in NS 8011 (5.19) and the highest in BH 417018 (5.93) respectively.

AVT II Late maturity: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for four entries in Late maturity (AVT II) group based on across the locations is presented in Table 25. The LDR ranged from 5.02 (BIO 207) to 5.51(ADV 7211) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.69 (R 8050) to 6.24 (ADV 7211) respectively. Whereas the overall mean LDR was lowest in BIO 207 (5.45) and the highest in ADV 7211 (5.88).

Screening of QPM entries against fall armyworm (Trial No. 1175):

A total of twenty seven entries of QPM entries (14 entries from AVT I and 13 entries from AVT II) were evaluated against fall armyworm under artificial infestation at Imphal, Ludhiana, Coimbatore, Hyderabad, and Kolhapur. The data on Leaf damage rating (LDR) on 1-9 Scale against fall armyworm of the Medium maturity (AVT I and II) entries at 2 and 4 weeks after infestation (WAI) is presented in Tables 26-30 and whereas overall mean of five locations of all the four zones at 2 and 4 weeks after infestation is presented in Table 31.

Imphal:

AVT I QPM: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for fourteen entries of QPM (AVTI I) at Imphal location is presented in Table 26. The LDR ranged from 2.50 (IQPMH 2205) to 5.50 (IQPMH 2111) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 6.00 (IQPMH 2203, IQPMH 2205) to 8.00 (IQPMH 2113, IQPMH 2114) respectively. Whereas the overall mean LDR was lowest in IQPMH 2205 (4.25) and the highest in IQPMH 2114 (6.50) respectively.

AVT II QPM: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for thirteen entries of QPM (AVT II) at Imphal location is presented in Table 26. The LDR ranged from 2.00 (ALPQH 1, QPMH 1) to 6.50 (R 8050) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.00 (ALPQH 1, APTQH 1) to 8.00 (AQWH 4) respectively. Whereas the overall mean LDR was lowest in ALPQH 1 (3.50) and the highest in AQWH 4 (7.00).

Ludhiana:

AVT I QPM: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for fourteen entries of QPM (AVTI I) at Ludhiana location is presented in Table 27. The LDR ranged from 3.33 (APH 6) to 4.21 (FLPH 45) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 3.91 (APH 6) to 4.84 (IQPMH 2113) respectively. Whereas the overall mean LDR was lowest in APH 6 (3.62) and the highest in FLPH 45 (4.45) respectively.

AVT II QPM: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for thirteen entries of QPM (AVT II) at Ludhiana location is presented in Table 27. The LDR ranged from 3.26 (ALQH 9) to 3.83 (IQPMH 2109) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 3.96 (ALPQH 1) to 4.86 (FWQH 1, IQPMH 2108) respectively. Whereas the overall mean LDR was lowest in ALQH 9 (3.66) and the highest in FWQH 1, IQPMH 2108 (4.10).

Coimbatore:

AVT I QPM: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for fourteen entries of QPM (AVT I) at Coimbatore location is presented in Table 28. The LDR ranged from 3.54 (IQPMH 2110) to 4.73 (FMH 24) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 3.10 (AQWH 8) to 5.63 (AQWH 5) respectively. Whereas the overall mean LDR was lowest in APH 6 (3.62) and the highest in FLPH 45 (4.45) respectively.

AVT II QPM: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for thirteen entries of QPM (AVT II) at Coimbatore location is presented in Table 28. The LDR ranged from 2.65 (IQPMH 2102) to 4.87 (FWQH 1) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 3.10 (IQPMH 2109) to 5.45 (FQPLH 20) respectively. Whereas the overall mean LDR was lowest in IQPMH 2102 (3.05) and the highest in FWQH 1 (4.76) respectively.

Hyderabad:

AVT I QPM: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for fourteen entries of QPM (AVT I) at Hyderabad location is presented in Table 29. The LDR ranged from 5.38 (FMH 24) to 6.66 (APQWH 8) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.80 (AQWH 8) to 7.25 (APH 6) respectively. Whereas the overall mean LDR was lowest in FMH 24 (5.20) and the highest in IQPMH 2204 (6.77) respectively.

AVT II QPM: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for thirteen entries of QPM (AVT II) at Hyderabad location is presented in Table 29. The LDR ranged from 4.56 (ALQH 9) to 7.00 (IQPMH 2109) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.77 (FQPLH 20) to 7.50 (ALPQH 1) respectively. Whereas the overall mean LDR was lowest in IQPMH 2012 (4.89) and the highest in FWQH 1, IQPMH 2109 (6.78) respectively.

Kolhapur:

AVT I QPM: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for fourteen entries of QPM (AVT I) at Kolhapur location is presented in Table 30. The LDR ranged from 4.50 (FMH 24) to 5.40 (FQH 160) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.85 (APQWH 8) to 5.65 (FQH 160) respectively. Whereas the overall mean LDR was lowest in FMH 24 (4.70) and the highest in FQH 160 (5.53) respectively.

AVT II QPM: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for thirteen entries of QPM (AVT II) at Kolhapur location is presented in Table 30. The LDR ranged from 4.10 (IQPMH 2102) to 5.30 (AQWH 4, FWQH 1) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.45 (IQPMH 2102) to 5.60 (AQWH 4) respectively. Whereas the overall mean LDR was lowest in IQPMH 2102 (4.28) and the highest in AQWH 4 (5.45) respectively.

Across locations:

AVT I QPM: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for fourteen entries of QPM (AVT I) at Kolhapur location is presented in Table 31. The LDR

ranged from 4.36 (AQWH 8) to 5.01 (IQPMH 2111) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 5.10 (AQWH) to 5.84 (AQWH 5) respectively. Whereas the overall mean LDR was lowest in AQWH 8 (4.73) and the highest in IQPMH 2204 (5.30) respectively.

AVT II QPM: The mean LDR data (1-9 scale) at 2 and 4 WAI against fall armyworm for thirteen entries of QPM (AVT II) at Kolhapur location is presented in Table 31. The LDR ranged from 3.77 (ALPQH 1) to 5.18 (AQWH 4) at 2 weeks after infestation. The mean LDR at 4 WAI ranged from 4.87 (ALPQH 1) to 5.56 (FWQH 1) respectively. Whereas the overall mean LDR was lowest in ALPQH 1 (4.32) and the highest in AQWH 4 (5.36) respectively.

ET 1 Evaluation of maize AICRP entries against spotted stem borer, *Chilo partellus* (Swinhoe)

under artificial infestation during *Kharif* 2023

**Table 1 .Leaf Injury rating scale for spotted stem borer, *Chilo partellus*
(Sarup *et al.* 1977)**

Rating	Description
1	Plants showing no infestation
2	1-2 leaves with pinholes
3	3-4 leaves with holes
4	1/3 leaves showing infestation
5	Half the number of the leaves with infestation
6	2/3 leaves with infestation symptoms and the holes becoming windows
7	Leaves with long window and plant growth is stunted
8	Almost all leaves displaying heavy infestation and plant growth is stunted
9	Dead heart formed

Table 2. Evaluation of maize AICRP Early Maturity, OPV, Baby Corn and Sweet corn (AVT I & AVT II) entries against *C. partellus* under artificial infestation during Kharif 2023 (Trial No. 1171)

S. No.	Name of the Entry	Mean leaf injury rating on 1-9 Scale				Mean	Overall Mean
		NEPZ	NWPZ	PZ			
		Dholi	Karnal	Hyder abad	Kolhapur		
OPV							
1	ADC 3	4.08	4.90	4.94	2.75	3.85	4.17
2	ADC 4	4.83	3.70	4.48	2.50	3.49	3.88
3	KDM 33	5.42	5.05	5.32	2.58	3.95	4.59
CHECKS							
1	BAJAURA MAKKA	5.00	4.65	5.50	2.50	4.00	4.41
2	VIJAY	2.33	5.70	5.15	6.33	2.68	4.97
BABY CORN							
1	ABHS 27	3.95	4.93	4.72	3.00	3.86	4.15
2	IMHSB 19KB-2	4.98	3.30	5.86	2.17	4.02	4.08
3	IBH11 223	5.25	4.40	4.04	2.58	3.31	4.07
4	IBH11 227	5.21	4.70	4.30	2.08	3.19	4.07
5	JH 32434	3.44	4.95	5.44	3.33	4.39	4.29
6	JH 32048	4.46	4.20	6.21	2.17	4.19	4.26
7	JH 32484	4.71	4.65	5.28	2.83	4.06	4.37
8	LBCH 2321	5.19	4.45	5.63	2.42	4.03	4.42
CHECKS							
1	ABHS 4-1	5.66	4.90	5.61	2.67	4.14	4.71
2	AH 7043	4.60	4.30	3.35	3.00	3.18	3.81
3	CMVL BABY CORN 2	4.04	5.65	4.22	4.58	4.40	4.62
4	IMHB 1539	5.00	5.15	.	2.67	2.67	4.27
SWEET CORN							
1	APSKH 1	5.39	5.00	5.81	2.67	4.24	4.72
2	APTSKH 1	4.88	4.95	3.75	2.50	3.13	4.02
3	CP GOLDEN	5.40	5.05	5.08	2.50	3.79	4.51
4	FSCH 131	5.15	4.55	4.00	2.75	3.38	4.11
5	ISH 6-2104	6.00	4.80	3.12	2.92	3.02	4.21
CHECKS							
1	ASKH 1	5.08	5.00	3.75	2.33	3.04	4.04
2	ASKH4	4.30	3.80	5.24	2.50	3.87	3.96
3	CMVL SWEET CORN 1	4.64	4.95	5.82	2.58	4.20	4.50
4	MISTHI	6.35	4.70	5.80	2.58	4.19	4.86
AVT I EARLY							
1	AHD 2008	4.21	5.60	5.34	2.25	3.80	4.35

2	AHD 8751	5.20	3.75	6.83	2.08	4.46	4.47
3	IX 7851	4.75	3.70	4.28	2.75	3.52	3.87
4	OMH 22-4	5.22	4.65	3.21	2.33	2.77	3.85
5	SMH 9099	4.96	4.55	4.88	2.33	3.61	4.18
6	SRMH 99M66	5.41	4.60	4.08	2.58	3.33	4.17
CHECKS							
1	BIO 605	4.52	4.85	3.53	2.50	3.02	3.85
2	DKC 7074	4.25	4.90	5.35	2.42	3.89	4.23
3	VMH 51	3.25	5.35	6.88	3.17	5.03	4.66
AVT II EARLY							
1	AH 8323	4.36	4.60	4.06	2.17	3.12	3.80
2	CP 111	4.33	4.35	6.71	3.17	4.94	4.64
3	CP 999	4.54	4.80	5.25	2.17	3.71	4.19
4	JH 32487	4.75	3.85	4.68	2.25	3.47	3.88
5	JH 32662	4.47	3.95	4.90	2.00	3.45	3.83
6	SMH 4555	5.49	5.25	4.56	2.33	3.45	4.41
CHECKS							
1	BIO 605	3.18	4.45	5.82	2.37	4.10	3.96
2	BIO 9544	4.94	4.50	6.07	2.58	4.33	4.52
3	BML 6	5.60	5.85	4.08	2.33	3.21	4.47
4	CM 501	4.75	5.45	5.96	2.50	4.23	4.67
Location Mean		2.19	4.80	4.69	4.98	2.59	4.27
CV (%)		21.23	16.09	21.38	21.48	-	21.09
CD (5%)		2.05	1.52	2.16	1.12	-	-
CD (1%)		2.75	2.03	2.90	1.50	-	-

Table 3. Evaluation of Medium maturity entries (AVT I-II) against Spotted stem borer, *Chilo partellus* (Swinhoe) during Kharif 2023 under artificial infestation (Trial No. 1174)

S. No.	Name of the Entry	Mean leaf injury rating on 1-9 Scale					Overall Mean
		NEPZ	NWPZ	PZ			
		Dholi	Karnal	Hyderabad	Kolhapur	Mean	
AVT I MEDIUM							
1	AHD 2077	4.39	6.25	6.06	5.17	5.62	5.47
2	BH 417144	5.67	3.45	5.89	5.17	5.53	5.05
3	BH 417189	4.81	4.25	6.83	5.33	6.08	5.31
4	CP-509	2.43	4.45	6.75	5.33	6.04	4.74
5	IM 36511	3.77	4.10	4.89	4.67	4.78	4.36
6	IMH 10-21K-2	5.01	4.60	4.64	4.75	4.70	4.75
7	IMH 2-22K-4	4.82	4.50	4.63	3.25	3.94	4.30
8	IMH 2-22K-6	4.84	4.65	4.09	4.75	4.42	4.58
9	IMH 2-22K-7	5.20	4.55	4.38	5.00	4.69	4.78
10	IMH 9-222	4.40	4.75	5.52	5.17	5.35	4.96
11	IQ 8393	3.94	4.30	3.96	4.67	4.32	4.22
12	IW 8477	4.40	4.25	4.53	5.25	4.89	4.61
13	JH 20088	4.56	2.55	5.76	5.08	5.42	4.49
14	JKMH 4059	4.49	3.55	5.44	4.75	5.10	4.56
15	JKMH 4823	5.31	4.35	4.79	4.83	4.81	4.82
16	KMH 8111	4.80	4.55	4.83	4.83	4.83	4.75
17	PM 22101	4.21	4.30	4.59	4.58	4.59	4.42
18	RCRMH 20	4.83	3.60	4.82	5.00	4.91	4.56
AVT II MEDIUM							
1	PM 211034	5.10	4.35	4.50	5.58	5.04	4.88
2	JKMH 4546	4.70	4.35	5.45	4.67	5.06	4.79
3	HM 21204	4.27	5.35	6.42	5.42	5.92	5.37
4	IMHSB 20K-10	4.55	4.50	4.20	5.08	4.64	4.58
CHECKS							
`1	BIO 605	4.12	4.45	5.70	4.58	5.14	4.71
2	BIO 9544	4.97	4.50	4.51	3.83	4.17	4.45
3	CMH-8-292	4.88	3.75	4.95	4.92	4.94	4.63
4	HTMH 5402	4.15	3.55	5.13	5.00	5.07	4.46
5	LG3405	5.25	4.30	4.28	2.92	3.60	4.19
6	BML 6	2.61	6.25	6.48	5.17	5.83	5.13
7	CM 501	3.95	5.25	4.28	5.17	4.73	4.66
Location Mean		4.57	4.40	5.11	4.82	4.97	4.73
CV (%)		15.55	13.98	24.17	12.35	18.26	15.89
CD (5%)		1.47	1.26	2.53	1.22	1.88	-
CD (1%)		1.99	1.70	3.42	1.65	2.54	-

Table 4. Evaluation of Late maturity entries (AVT I-II) against Spotted stem borer, *Chilo partellus* during Kharif 2023 under artificial infestation (Trial No. 1173)

S. No.	Name of the Entry	Mean leaf injury rating on 1-9 Scale					Overall Mean
		NEPZ	NWPZ	PZ			
		Dholi	Karnal	Hydera bad	Kolhapur	Mean	
AVT I							
1	ADV 7434	4.69	5.35	4.70	3.39	4.05	4.53
2	AM 05674	5.05	4.15	5.14	4.75	4.95	4.77
3	BH 417018	5.48	4.35	4.46	3.83	4.15	4.53
4	BH 417177	4.82	4.50	4.60	3.92	4.26	4.46
5	BIO 9766	4.89	4.50	3.91	2.75	3.33	4.01
6	CP 988	4.94	4.30	6.05	3.67	4.86	4.74
7	HARLAL 24	5.27	4.70	3.14	4.17	3.66	4.32
8	HM 22201	4.89	4.30	4.54	3.44	3.99	4.29
9	IQ 8701	3.88	4.40	6.60	3.17	4.89	4.51
10	KMH 8206	4.85	4.15	5.17	3.90	4.54	4.52
11	KMH 8208	5.61	4.10	5.50	3.31	4.41	4.63
12	KMH 8388	4.83	3.95	7.39	3.25	5.32	4.86
13	MFH22 65	4.74	4.30	3.64	3.42	3.53	4.03
14	NS 8007	5.65	3.50	4.58	2.67	3.63	4.10
15	NS 8011	5.69	5.45	5.05	4.46	4.76	5.16
16	PM 21111 L	3.55	3.25	5.44	2.17	3.81	3.60
17	PM 22106	4.49	3.50	5.72	3.83	4.78	4.39
18	PM 22112	3.52	4.35	5.70	4.42	5.06	4.50
19	PM 22113	5.87	4.45	4.93	3.17	4.05	4.61
20	PM 22117	3.54	3.55	6.09	2.92	4.51	4.03
21	SMH 235	4.37	4.85	6.34	3.64	4.99	4.80
22	SRMH 999	3.22	4.45	5.51	4.58	5.05	4.44
23	SUPER 2727	4.76	4.40	5.67	3.83	4.75	4.67
24	SYN 221610L	3.39	4.20	4.90	4.35	4.63	4.21
25	SYN 223671L	5.69	4.40	6.55	4.44	5.50	5.27
26	VNR 4324	4.50	3.60	5.57	4.98	5.28	4.66
AVT II							
1	ADV 7211	4.65	4.50	4.08	4.17	4.13	4.35
2	BIO 207	5.76	4.55	5.14	3.21	4.18	4.67
3	KMH 8333	4.93	4.55	4.86	3.50	4.18	4.46
4	PM 22112	3.52	4.35	5.70	4.42	5.06	4.50
5	R 8050	3.94	3.50	6.18	4.08	5.13	4.43
CHECKS							
1	BIO 605	5.61	4.50	5.95	3.58	4.77	4.91
2	BIO 9544	3.67	4.75	5.89	4.67	5.28	4.75
3	BIO 9682	3.17	4.55	4.90	3.50	4.20	4.03
4	CMH 8-282	5.43	4.70	4.57	4.33	4.45	4.76
5	CMH 8-287	4.23	4.20	5.03	3.92	4.48	4.35

6	CP 858	4.10	4.40	6.14	3.33	4.74	4.49
7	NK 6240	4.79	4.70	5.87	3.75	4.81	4.78
8	BML 6	5.64	6.30	2.70	3.46	3.08	4.53
9	CM 501	5.66	6.35	7.10	4.80	5.95	5.98
Location Mean		4.72	4.42	5.31	3.76	4.54	4.55
CV (%)		25.95	12.69	21.83	17.64	19.74	17.13
CD (5%)		2.48	1.14	2.35	1.34	1.85	-
CD (1%)		3.32	1.52	3.15	1.80	2.48	-

Table 5. Evaluation of QPM entries (AVT I-II) against Spotted stem borer, *Chilo partellus* (Swinhoe) during Kharif 2023 under artificial infestation (Trial No. 1175)

S. No.	Name of the Entry	Mean leaf injury rating on 1-9 Scale					Overall Mean
		NEPZ	NWPZ	PZ			
		Dholi	Karnal	Hyderabad	Kolhapur	Mean	
AVT I (2 nd Year)							
1	APH 6	4.55	4.20	4.63	5.42	5.03	4.70
2	APQWH 8	4.93	4.30	4.83	4.83	4.83	4.65
3	AQWH 5	5.59	4.35	4.21	4.83	4.52	4.75
4	FLPH 45	5.05	4.45	3.58	4.00	3.79	4.27
5	FMH 24	5.21	4.05	4.07	4.33	4.20	4.15
6	FQH 160	5.66	4.20	4.42	5.08	4.75	4.84
7	IQPMH 2110	5.74	4.40	3.41	4.42	3.92	4.49
8	IQPMH 2111	5.88	3.85	5.39	5.33	5.36	4.86
9	IQPMH 2113	5.57	4.45	3.44	5.00	4.22	4.62
10	IQPMH 2114	5.28	4.50	4.34	4.33	4.34	4.61
11	IQPMH 2203	4.56	4.45	3.49	5.75	4.62	4.56
12	IQPMH 2204	4.70	4.20	4.97	4.75	4.86	4.66
13	IQPMH 2205	4.46	3.90	4.25	5.33	4.79	4.49
14	AQWH 8	4.75	4.20	2.94	5.25	4.10	4.13
AVT II (3 rd year)							
1	ALPQH 1	5.00	4.70	3.50	4.75	4.13	4.49
2	ALQH 9	.	4.45	3.83	4.92	4.38	4.40
3	APTQH 1	5.03	4.05	5.05	4.17	4.61	4.58
4	APQH 4	5.28	4.90	5.21	4.67	4.94	5.02
5	AQWH 4	4.80	4.30	4.21	5.58	4.90	4.70
6	FWQH 1	6.25	4.15	3.94	5.17	4.56	4.88
7	IQPMH 2108	4.00	3.25	3.60	4.17	3.89	3.76
8	IQPMH 2109	5.13	3.20	3.77	4.42	4.10	3.80
9	IQPMH 2012	4.95	4.40	3.79	4.58	4.19	4.26
10	FQPLH 20	4.50	4.25	5.72	5.42	5.57	5.13
11	IQPMH 2102	5.33	3.00	4.81	4.75	4.78	4.47
12	IQPMH 2105	5.83	4.30	4.35	5.00	4.68	4.55
13	QPMH 1	5.10	4.25	4.13	4.33	4.23	4.45
CHECKS							
1	APH 1	4.70	5.15	4.13	4.50	4.32	4.59
2	BIO 9544	4.66	4.15	4.73	4.58	4.66	4.53
3	BIO 605	5.05	4.40	4.50	4.92	4.71	4.61
4	BIO 9544	3.92	4.40	5.16	5.33	5.25	4.70
5	CMVL 55	5.00	4.40	4.30	4.75	4.53	4.48
6	HM 4	4.27	6.15	4.52	4.50	4.51	5.06
7	HM 8	5.15	4.65	5.58	3.58	4.58	4.74

8	HM 9	5.43	3.45	3.94	5.00	4.47	4.13
9	HQPM 1	5.90	4.40	4.73	4.83	4.78	4.97
10	HQPM 4	6.42	4.30	5.21	4.58	4.90	4.70
11	HQPM 5	5.20	3.95	3.08	4.67	3.88	4.23
12	IQMH 202	5.13	5.30	3.90	4.92	4.41	4.71
13	IQMH 203	4.43	5.15	4.08	5.50	4.79	4.79
14	LQMH 1	4.37	4.20	3.72	5.25	4.49	4.39
15	VIVEK QPM 9	4.57	4.10	5.05	5.25	5.15	4.74
16	VMH 45	4.85	4.55	4.25	5.25	4.75	4.73
17	VMH 53	5.87	3.50	3.54	5.50	4.52	4.60
18	BML 6	4.00	4.00	4.40	4.75	4.58	4.38
19	CM 501	3.92	5.30	5.70	5.42	5.56	5.09
	Location Mean	5.04	4.31	4.31	4.86	4.59	4.63
	CV (%)	20.02	18.31	27.32	13.82	20.57	15.17
	CD (5%)	2.03	1.59	2.37	1.35	1.86	-
	CD (1%)	2.72	2.12	3.16	1.80	2.48	-

ET 2. Evaluation of maize AICRP entries against fall armyworm, *Spodoptera frugiperda* (J. E. Smith) under artificial infestation during Kharif 2023

Table 6. Leaf Damage Rating (LDR) scale to categorize maize germplasm for resistance to FAW (Soujanya *et al.*, 2022)

Rating	Description/Symptoms
1	Healthy plant/No damage/ Visible symptoms
2	Few short /pin size holes/scraping on few leaves (1-2)
3	Short/pin size holes/scraping on several leaves (3-4)
4	Short/pin size holes/scraping on several leaves (5-6) and a few long elongated lesions (1-3 Nos) up to 2.0 cm length present on whorl and or adjacent fully opened leaves
5	Several holes with elongated lesions (4-5 Nos) up to 4.0 cm length and uniform/ irregular shaped holes present on whorl and or adjacent fully opened leaves
6	Several leaves with elongated lesions (6-7 Nos) up to 6.0 cm length and uniform/irregular shaped holes present on whorl and adjacent fully opened leaves
7	Several long lesions (>7 Nos) up to 10 cm length and uniform/ irregular shaped holes common on one-half of the leaves present on whorl and adjacent fully opened leaves
8	Several long lesions > 10 cm length and uniform/ irregular shaped holes common on one half to two-thirds of leaves present on whorl and adjacent fully opened leaves
9	Complete defoliation of whorl of the plant

Table 7. Ratings for ear and kernel damage caused by FAW (Davis and Williams, 1992)

Score	Damage symptoms/ Description
1	No damage to the ear
2	Damage to a few kernels (<5) or less than 5% damage to an ear
3	Damage to a few kernels (6-15) or less than 10% damage to an ear
4	Damage to 16-30 kernels or less than 15% damage to an ear
5	Damage to 31-50 kernels or less than 25% damage to an ear
6	Damage to 51-75 kernels or more than 35% but less than 50% damage to an ear
7	Damage to 76-100 kernels or more than 50% but less than 60% damage to an ear
8	Damage to >100 kernels or more than 60% but less than 100% damage to an ear
9	Almost 100% damage to an ear

Table 8. Evaluation of AICRP entries of Early Maturity, OPV, Baby Corn and Sweet corn entries (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1171)

Location: IMPHAL

S. No.	Name of the entry	Mean Davis score (1-9 Scale) for whorl feeding injury by Fall armyworm (Weeks after infestation)			Mean Davis score (1-9 scale) for ear damage at harvest
		2	4	Overall Mean	
OPV					
1	ADC 3	6.50	8.00	7.25	2.33
2	ADC 4	6.50	7.50	7.00	1.50
3	KDM 33	5.00	6.50	5.75	1.67
CHECKS					
1	BAJAURA MAKKA	4.50	5.50	5.00	1.67
2	VIJAY	6.00	6.50	6.25	1.67
BABY CORN					
1	ABHS 27	6.25	7.00	6.63	1.75
2	IBH11 223	6.00	6.50	6.25	1.17
3	IBH11 227	5.50	6.50	6.00	2.17
4	IMHSB 19KB-2	7.00	7.50	7.25	2.00
5	JH 32048	5.50	8.00	6.75	2.34
6	JH 32434	6.00	8.50	7.25	2.67
7	JH 32484	3.00	6.00	4.50	1.50
8	LBCH 2321	4.00	6.50	5.25	1.33
CHECKS					
1	ABHS 4-1	5.00	5.00	5.00	1.67
2	AH 7043	5.50	7.50	6.50	2.00
3	CMVL BABY CORN 2	5.50	6.50	6.00	1.67
4	IMHB 1539	7.00	6.50	6.75	1.33
SWEET CORN					
1	APSKH 1	4.00	4.50	4.25	2.17
2	APTSKH 1	5.00	6.50	5.75	1.17
3	CP GOLDEN	3.01	5.12	4.07	2.19
4	FSCH 131	8.00	8.00	8.00	1.50
5	ISH 6-2104	6.50	7.00	6.75	1.50
CHECKS					
1	ASKH 1	7.50	7.00	7.25	2.17
2	ASKH4	5.50	6.50	6.00	1.84
3	CMVL SWEET CORN 1	6.00	6.50	6.25	1.34
4	MISTHI	4.50	6.00	5.25	1.84
AVT I EARLY					
1	AHD 2008	5.00	4.50	4.75	1.00

2	AHD 8751	4.50	5.50	5.00	1.34
3	IX 7851	7.00	5.50	6.25	2.17
4	OMH 22-4	5.50	8.00	6.75	1.83
5	SMH 9099	7.50	7.50	7.50	2.33
6	SRMH 99M66	7.00	6.00	6.50	2.00
CHECKS					
1	BIO 605	5.50	8.00	6.75	2.00
2	BIO 9544	6.50	6.00	6.25	1.67
3	VMH 51	5.00	8.00	6.50	1.50
AVT II EARLY					
1	AH 8323	5.00	6.00	5.50	1.67
2	CP 111	6.00	8.00	7.00	2.33
3	CP 999	5.50	7.00	6.25	1.33
4	JH 32487	5.00	5.00	5.00	1.33
5	JH 32662	6.50	6.50	6.50	1.00
6	SMH 4555	4.50	6.00	5.25	1.17
CHECKS					
1	BIO 605	4.50	7.50	6.00	2.00
2	DKC 7074	5.50	6.00	5.75	2.17
CHECKS					
1	BML 6	5.50	6.50	6.00	1.67
2	CM 501	4.00	6.00	5.00	1.50
Location Mean		5.60	6.62	6.11	1.73
CV (%)		30.06	20.42	13.01	13.01
CD (5%)		3.39	2.72	1.59	1.59
CD (1%)		4.53	3.63	2.12	2.12

Table 9. Evaluation of AICRP entries of Early Maturity, OPV, Baby Corn and Sweet corn entries (AVT I and II) against fall armyworm under artificial infestation during Kharif, 2023 (Trial No, 1171)

Location: LUDHIANA

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)			Mean Davis score (1-9 scale) for ear damage at harvest
		2	4	Overall Mean	
OPV					
1	ADC 3	4.50	4.78	4.64	2.90
2	ADC 4	4.70	4.95	4.83	3.19
3	KDM 33	4.11	4.38	4.25	3.41
CHECKS					
1	BAJAURA MAKKA	4.66	4.03	4.35	3.61
2	VIJAY	3.96	4.25	4.11	3.51
BABY CORN					
1	ABHS 27	4.08	4.40	4.24	3.31
2	IBH11 223	3.83	4.06	3.95	3.83
3	IBH11 227	4.79	4.63	4.71	2.62
4	IMHSB 19KB-2	4.45	4.63	4.54	2.92
5	JH 32048	4.07	4.30	4.19	3.13
6	JH 32434	4.33	4.24	4.29	2.77
7	JH 32484	4.49	4.77	4.63	2.96
8	LBCH 2321	4.47	4.70	4.59	2.85
CHECKS					
1	ABHS 4-1	4.14	4.65	4.40	3.29
2	AH 7043	4.61	4.81	4.71	3.43
3	CMVL BABY CORN 2	4.56	4.71	4.64	3.34
4	IMHB 1539	4.08	3.99	4.04	2.85
SWEETCORN					
1	APSKH 1	4.41	5.15	4.78	3.75
2	APTSKH 1	4.45	4.97	4.71	3.89
3	CP GOLDEN	4.02	4.53	4.28	4.33
4	FSCH 131	4.42	4.34	4.38	3.44
5	ISH 6-2104	4.51	4.37	4.44	3.73
CHECKS					
1	ASKH 1	4.39	4.79	4.59	3.09
2	ASKH4	4.59	4.81	4.70	3.73
3	CMVL SWEET CORN 1	4.50	4.90	4.70	4.27
4	MISTHI	4.29	4.78	4.54	2.76
AVT I EARLY					

1	AHD 2008	3.93	4.08	4.01	2.70
2	AHD 8751	4.52	4.37	4.45	3.02
3	IX 7851	4.82	4.90	4.86	2.43
4	OMH 22-4	4.83	4.91	4.87	2.84
5	SMH 9099	4.71	4.63	4.67	3.28
6	SRMH 99M66	4.36	4.10	4.23	3.20
CHECKS					
1	BIO 605	4.45	4.68	4.57	3.90
2	BIO 9544	4.10	4.41	4.26	3.20
3	VMH 51	4.00	4.48	4.24	3.54
AVT II EARLY					
1	AH 8323	4.95	4.75	4.85	2.65
2	CP 111	4.07	5.11	4.59	3.23
3	CP 999	4.50	4.68	4.59	3.00
4	JH 32487	4.40	4.85	4.63	3.08
5	JH 32662	4.49	4.88	4.69	2.77
6	SMH 4555	4.62	4.42	4.52	3.11
CHECKS					
1	BIO 605	4.54	4.70	4.62	3.02
2	DKC 7074	4.45	4.43	4.44	2.86
CHECKS					
1	BML 6	3.90	3.99	3.95	2.90
2	CM 501	3.31	3.90	3.61	3.05
Location Mean		4.36	4.55	4.46	3.22
CV (%)		8.91	8.91	4.69	13.85
CD (5%)		0.78	0.82	0.42	0.90
CD (1%)		1.04	1.09	0.56	1.20

Table 10. Evaluation of AICRP entries of Early Maturity, OPV, Baby Corn and Sweet corn entries (AVT I and II) against fall armyworm under artificial infestation during Kharif, 2023 (Trial No, 1171)

Location: COIMBATORE

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
OPV				
1	ADC 3	1.27	4.15	2.71
2	ADC 4	2.27	4.85	3.56
3	KDM 33	5.01	3.15	4.08
CHECKS				
1	BAJAURA MAKKA	2.04	3.80	2.92
2	VIJAY	3.66	5.27	4.47
BABYCORN				
1	ABHS 27	4.46	5.79	5.13
2	IBH11 223	4.72	4.15	4.44
3	IBH11 227	4.08	4.42	4.25
4	IMHSB 19KB-2	2.79	3.15	2.97
5	JH 32434	1.92	5.54	3.73
6	JH 32048	2.32	4.61	3.47
7	JH 32484	2.97	5.56	4.27
8	LBCH 2321	3.19	4.19	3.69
CHECKS				
1	ABHS 4-1	1.77	4.07	2.92
2	AH 7043	2.50	4.38	3.44
3	CMVL BABY CORN 2	3.03	4.88	3.96
4	IMHB 1539	2.87	2.94	2.91
SWEETCORN				
1	APSKH 1	2.30	4.00	3.15
2	APTSKH 1	3.31	3.42	3.37
3	CP GOLDEN	2.69	3.51	3.10
4	FSCH 131	3.20	2.66	2.93
5	ISH 6-2104	4.61	4.88	4.75
CHECKS				
1	ASKH 1	2.68	4.23	3.46
2	ASKH4	2.09	3.46	2.78
3	CMVL SWEET CORN 1	3.49	3.46	3.48
4	MISTHI	2.77	3.42	3.10
AVT I EARLY				
1	AHD 2008	1.53	4.27	2.90
2	AHD 8751	2.62	3.32	2.97

3	IX 7851	1.69	3.69	2.69
4	OMH 22-4	2.65	4.55	3.60
5	SMH 9099	3.96	4.15	4.06
6	SRMH 99M66	3.12	4.73	3.93
CHECKS				
1	BIO 605	1.84	3.65	2.75
2	BIO 9544	2.69	3.54	3.12
3	VMH 51	2.96	3.88	3.42
AVT II EARLY				
1	AH 8323	2.64	3.73	3.19
2	CP 111	1.96	5.19	3.58
3	CP 999	2.73	4.49	3.61
4	JH 32487	1.34	5.75	3.55
5	JH 32662	2.69	3.58	3.14
6	SMH 4555	2.50	4.58	3.54
CHECKS				
1	BIO 605	2.07	4.37	3.22
2	DKC 7074	3.38	3.69	3.54
CHECKS				
1	BML 6	2.07	4.38	3.23
2	CM 501	1.19	4.38	2.79
Location Mean		2.78	4.21	3.50
CV (%)		51.02	27.36	24.87
CD (5%)		2.86	2.32	-
CD (1%)		3.81	3.09	-

Table 11. Evaluation of AICRP entries of Early Maturity, OPV, Baby Corn and Sweet corn entries (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1171)

Location: HYDERABAD

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)			Mean Davis score (1-9 scale) for ear damage at harvest
		2	4	Overall Mean	
OPV					
1	ADC 3	4.44	5.99	5.22	3.00
2	ADC 4	4.26	7.50	5.88	2.00
3	KDM 33	4.27	8.00	6.14	5.50
CHECKS					
1	BAJAURA MAKKA	3.88	6.40	5.14	2.50
2	VIJAY	4.21	7.06	5.64	3.50
	BABYCORN				
1	ABHS 27	4.35	6.64	5.50	3.80
2	IBH11 223	4.04	6.96	5.50	4.25
3	IBH11 227	4.59	8.00	6.30	2.25
4	IMHSB 19KB-2	4.06	7.56	5.81	2.17
5	JH 32434	4.54	7.50	6.02	2.92
6	JH 32048	4.00	6.71	5.36	2.50
7	JH 32484	4.23	7.13	5.68	5.13
8	LBCH 2321	4.61	6.75	5.68	2.00
CHECKS					
1	ABHS 4-1	4.58	7.37	5.98	2.25
2	AH 7043	4.62	7.60	6.11	3.67
3	CMVL BABY CORN 2	4.12	6.44	5.28	2.75
4	IMHB 1539	4.01	7.70	5.86	1.00
SWEET CORN					
1	APSKH 1	4.08	5.43	4.76	2.50
2	APTSKH 1	4.46	6.86	5.66	2.50
3	CP GOLDEN	4.05	6.17	5.11	3.00
4	FSCH 131	4.20	6.90	5.55	1.00
5	ISH 6-2104	4.09	6.93	5.51	4.50
CHECKS					
1	ASKH 1	4.50	5.67	5.09	3.00
2	ASKH4	4.02	7.30	5.66	2.67
3	CMVL SWEET CORN 1	4.33	7.31	5.82	3.00
4	MISTHI	4.45	6.26	5.36	5.00
AVT I EARLY					

1	AHD 2008	3.98	7.86	5.92	2.33
2	AHD 8751	4.04	7.75	5.90	1.00
3	IX 7851	4.33	7.72	6.03	3.77
4	OMH 22-4	4.55	8.00	6.28	2.25
5	SMH 9099	4.20	6.75	5.48	3.25
6	SRMH 99M66	4.30	6.10	5.20	3.00
CHECKS					
1	BIO 605	4.76	7.81	6.29	4.50
2	BIO 9544	4.31	6.38	5.35	4.50
3	VMH 51	4.15	6.83	5.49	3.58
AVT II EARLY					
1	AH 8323	4.37	7.42	5.90	3.00
2	CP 111	4.73	7.33	6.03	1.75
3	CP 999	4.42	7.54	5.98	4.75
4	JH 32487	4.32	7.50	5.91	3.00
5	JH 32662	4.39	7.50	5.95	3.42
6	SMH 4555	3.76	7.10	5.43	4.08
CHECKS					
1	BIO 605	4.41	7.29	5.85	4.00
2	DKC 7074	4.25	5.93	5.09	3.00
CHECKS					
1	BML 6	3.70	7.70	5.70	2.00
2	CM 501	4.27	7.23	5.75	2.37
Location Mean		4.27	7.05	5.66	3.08
CV (%)		14.06	9.63	8.41	43.90
CD (5%)		0.51	1.37	-	2.72
CD (1%)		2.32	1.82	-	3.63

Table 12. Evaluation of AICRP entries of Early Maturity, OPV, Baby Corn and Sweet corn entries (AVT I and II) against fall armyworm under artificial infestation during Kharif, 2023 (Trial No, 1171)

Location: KOLHAPUR

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
OPV				
1	ADC 3	5.15	5.55	5.35
2	ADC 4	5.10	5.60	5.35
3	KDM 33	5.50	5.85	5.68
CHECKS				
1	BAJAURA MAKKA	4.75	5.20	4.98
2	VIJAY	4.90	5.60	5.25
BABY CORN				
1	ABHS 27	5.05	5.45	5.25
2	IBH11 223	5.40	5.70	5.55
3	IBH11 227	5.05	5.35	5.20
4	IMHSB 19KB-2	4.85	5.30	5.08
5	JH 32434	4.95	5.55	5.25
6	JH 32048	4.25	5.05	4.65
7	JH 32484	4.15	5.30	4.73
8	LBCH 2321	5.50	5.90	5.70
CHECKS				
1	ABHS 4-1	5.15	5.70	5.43
2	AH 7043	5.30	5.75	5.53
3	CMVL BABY CORN 2	4.90	5.30	5.10
4	IMHB 1539	4.75	5.20	4.98
SWEET CORN				
1	APSKH 1	5.25	5.55	5.40
2	APTSKH 1	5.25	5.55	5.40
3	CP GOLDEN	5.25	5.55	5.40
4	FSCH 131	5.30	5.75	5.53
5	ISH 6-2104	4.65	5.75	5.20
CHECKS				
1	ASKH 1	5.15	5.65	5.40
2	ASKH4	5.20	5.50	5.35
3	CMVL SWEET CORN 1	5.15	5.45	5.30
4	MISTHI	5.30	5.30	5.30
AVT I EARLY				
1	AHD 2008	4.30	5.05	4.68

2	AHD 8751	4.70	5.10	4.90
3	IX 7851	5.65	5.90	5.78
4	OMH 22-4	5.05	5.60	5.33
5	SMH 9099	5.20	5.50	5.35
6	SRMH 99M66	5.15	5.55	5.35
CHECKS				
1	BIO 605	5.30	5.65	5.48
2	BIO 9544	4.95	5.35	5.15
3	VMH 51	4.20	5.10	4.65
AVT II EARLY				
1	AH 8323	5.05	5.50	5.28
2	CP 111	5.40	5.80	5.60
3	CP 999	5.15	5.55	5.35
4	JH 32487	5.55	5.90	5.73
5	JH 32662	5.15	5.45	5.30
6	SMH 4555	4.70	5.05	4.88
CHECKS				
1	BIO 605	5.00	5.70	5.35
2	DKC 7074	5.25	5.60	5.43
CHECKS				
1	BML 6	3.60	4.45	4.03
2	CM 501	4.20	4.65	4.43
Location Mean		5.00	5.46	5.23
CV (%)		12.93	8.01	13.00
CD (5%)		1.30	0.88	0.31
CD (1%)		1.74	1.18	0.42

Table 13. Evaluation of AICRP entries of Early Maturity, OPV, Baby Corn and Sweet corn entries (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1171)

Location: ACROSS LOCATIONS

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
OPV				
1	ADC 3	4.37	5.69	5.03
2	ADC 4	4.57	6.08	5.33
3	KDM 33	4.78	5.58	5.18
CHECKS				
1	BAJAURA MAKKA	3.97	4.99	4.48
2	VIJAY	4.55	5.74	5.15
	BABY CORN			
1	ABHS 27	4.84	5.86	5.35
2	IBH11 223	4.80	5.47	5.14
3	IBH11 227	4.80	5.78	5.29
4	IMHSB 19KB-2	4.63	5.63	5.13
5	JH 32434	4.35	6.27	5.31
6	JH 32048	4.03	5.73	4.88
7	JH 32484	3.77	5.75	4.76
8	LBCH 2321	4.35	5.61	4.98
CHECKS				
1	ABHS 4-1	4.13	5.36	4.75
2	AH 7043	4.51	6.01	5.26
3	CMVL BABY CORN 2	4.42	5.57	5.00
4	IMHB 1539	4.54	5.27	4.91
SWEET CORN				
1	APSKH 1	4.01	4.93	4.47
2	APTSKH 1	4.49	5.46	4.98
3	CP GOLDEN	3.80	4.98	4.39
4	FSCH 131	5.02	5.53	5.28
5	ISH 6-2104	4.87	5.79	5.33
CHECKS				
1	ASKH 1	4.84	5.47	5.16
2	ASKH4	4.28	5.51	4.90
3	CMVL SWEET CORN 1	4.69	5.52	5.11
4	MISTHI	4.26	5.15	4.71
AVT I EARLY				
1	AHD 2008	3.75	5.15	4.45
2	AHD 8751	4.08	5.21	4.65
3	IX 7851	4.70	5.54	5.12

4	OMH 22-4	4.52	6.21	5.37
5	SMH 9099	5.11	5.71	5.41
6	SRMH 99M66	4.79	5.30	5.05
CHECKS				
1	BIO 605	4.17	5.86	5.02
2	BIO 9544	4.51	5.14	4.83
3	VMH 51	4.06	5.66	4.86
AVT II EARLY				
1	AH 8323	4.40	5.48	4.94
2	CP 111	4.43	6.29	5.36
3	CP 999	4.46	5.85	5.16
4	JH 32487	4.12	5.80	4.96
5	JH 32662	4.64	5.58	5.11
6	SMH 4555	4.02	5.43	4.73
CHECKS				
1	BIO 605	4.30	6.01	5.16
2	DKC 7074	4.57	5.13	4.85
3	BML 6	3.75	5.40	4.58
4	CM 501	3.39	5.23	4.31
Location Mean		4.40	5.58	4.99
CV (%)		23.40	14.87	6.29
CD (5%)		1.77	1.62	0.63
CD (1%)		2.68	2.16	-

Table 14. Evaluation of AICRP entries of Medium maturity (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1174)
Location: IMPHAL

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)			Mean Davis score (1-9 scale) for ear damage at harvest
		2	4	Overall Mean	
AVT I MEDIUM					
1	AHD 2077	6.00	8.50	7.25	1.50
2	BH 417144	3.50	6.00	4.75	1.34
3	BH 417189	3.50	7.00	5.25	2.00
4	CP 509	7.00	8.00	7.50	1.17
5	IM 36511	2.00	7.00	4.50	2.00
6	IMH 10-21K-2	5.50	7.00	6.25	2.00
7	IMH 2-22K-4	6.50	8.00	7.25	2.17
8	IMH 2-22K-6	6.00	7.50	6.75	1.67
9	IMH 2-22K-7	4.50	6.00	5.25	1.50
10	IMH 9-222	6.50	8.00	7.25	2.00
11	IQ 8393	3.00	7.00	5.00	2.17
12	IW 8477	5.00	7.00	6.00	1.34
13	JH 20088	4.50	7.50	6.00	1.67
14	JKMH 4059	5.50	7.50	6.50	1.83
15	JKMH 4823	4.50	7.50	6.00	1.67
16	KMH 8111	5.50	8.50	7.00	2.34
17	PM 22101	4.50	8.00	6.25	2.67
18	RCRMH 20	3.50	7.50	5.50	1.50
AVT II MEDIUM					
1	HM 21204	5.50	7.50	6.50	2.33
2	IMHSB 20K-10	4.50	7.00	5.75	1.50
3	JKMH 4546	4.00	8.00	6.00	2.17
4	PM 21103M	5.50	8.00	6.75	1.84
CHECKS					
1	BIO 605	3.00	7.00	5.00	1.67
2	BIO 9544	4.50	7.00	5.75	2.00
3	CMH-8-292	5.50	7.50	6.50	1.67
4	HTMH 5402	4.50	7.00	5.75	1.33
5	LG3405	4.50	7.00	5.75	1.67
6	BML 6	2.00	6.50	4.25	2.34
7	CM 501	.	.	-	.
Location Mean		4.66	7.36	6.01	1.82
CV (%)		35.40	14.90	13.86	27.84
CD (5%)		3.38	2.25	1.64	1.04
CD (1%)		4.57	3.04	2.22	1.40

Table 15. Evaluation of AICRP entries of Medium maturity (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1174)

Location: LUDHIANA

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)			Mean Davis score (1-9 scale) for ear damage at harvest
		2	4	Overall Mean	
AVT I MEDIUM					
1	AHD 2077	3.73	4.48	4.11	2.80
2	BH 417144	3.77	4.34	4.06	2.76
3	BH 417189	3.96	4.89	4.43	2.55
4	CP 509	3.70	4.48	4.09	2.66
5	IM 36511	3.56	4.50	4.03	2.61
6	IMH 10-21K-2	3.66	3.98	3.82	2.73
7	IMH 2-22K-4	3.63	4.82	4.23	2.70
8	IMH 2-22K-6	3.52	3.97	3.75	3.04
9	IMH 2-22K-7	3.71	4.40	4.06	2.75
10	IQ 8393	4.02	4.73	4.38	2.52
11	IMH 9-222	4.32	4.59	4.46	3.06
12	IW 8477	4.00	4.71	4.36	3.19
13	JH 20088	3.85	4.95	4.40	2.69
14	JKMH 4059	4.02	5.12	4.57	2.96
15	JKMH 4823	3.61	4.85	4.23	2.70
16	KMH 8111	3.73	4.88	4.31	2.61
17	PM 22101	3.82	4.14	3.98	2.55
18	RCRMH 20	3.77	4.91	4.34	2.93
AVT II MEDIUM					
1	HM 21204	3.76	4.35	4.06	2.87
2	IMHSB 20K-10	3.49	4.35	3.92	3.20
3	JKMH 4546	3.93	4.83	4.38	3.14
4	PM 21103M	3.79	4.85	4.32	2.48
CHECKS					
1	BIO 605	3.78	4.64	4.21	2.69
2	BIO 9544	3.72	4.87	4.30	2.97
3	CMH-8-292	3.79	4.51	4.15	2.67
4	HTMH 5402	3.66	4.42	4.04	2.69
5	LG3405	4.26	5.27	4.77	2.90
6	BML 6	3.98	4.65	4.32	2.67
7	CM 501	3.78	4.82	4.30	2.66
Location Mean		3.80	4.63	4.22	2.78
CV (%)		6.89	7.80	4.56	11.67
CD (5%)		0.54	0.74	0.39	0.67
CD (1%)		0.72	1.00	0.53	0.90

Table 16. Evaluation of AICRP entries of Medium maturity (AVT I and II) against fall armyworm under artificial infestation during <i>Kharif</i> , 2023 (Trial No, 1174)				
Location: COIMBATORE				
S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
AVT I MEDIUM				
1	AHD 2077	5.37	5.00	5.19
2	BH 417144	6.50	4.05	5.28
3	BH 417189	5.96	3.40	4.68
4	CP 509	4.38	4.30	4.34
5	IM 36511	5.69	4.00	4.85
6	IMH 10-21K-2	4.26	4.15	4.21
7	IMH 2-22K-4	4.61	3.25	3.93
8	IMH 2-22K-6	5.61	3.95	4.78
9	IMH 2-22K-7	5.23	3.00	4.12
10	IMH 9-222	5.64	3.75	4.70
11	IQ 8393	5.36	4.30	4.83
12	IW 8477	6.23	4.45	5.34
13	JH 20088	5.50	3.15	4.33
14	JKMH 4059	6.42	3.20	4.81
15	JKMH 4823	6.09	3.95	5.02
16	KMH 8111	3.84	4.70	4.27
17	PM 22101	3.40	2.40	2.90
18	RCRMH 20	5.30	3.30	4.30
AVT II MEDIUM				
1	HM 21204	4.27	3.95	4.11
2	IMHSB 20K-10	5.58	4.15	4.87
3	JKMH 4546	5.88	4.35	5.12
4	PM 21103M	5.34	3.90	4.62
CHECKS				
1	BIO 605	5.00	2.95	3.98
2	BIO 9544	5.76	3.30	4.53
3	CMH-8-292	3.55	3.15	3.35
4	HTMH 5402	5.99	3.70	4.85
5	LG3405	7.46	5.10	6.28
6	BML 6	5.07	4.70	4.89
7	CM 501	5.35	4.70	5.03
Location Mean		5.33	3.87	4.60
CV (%)		26.81	20.72	14.70
CD (5%)		2.93	1.64	-
CD (1%)		3.95	2.22	-

Table 17. Evaluation of AICRP entries of Medium maturity (AVT I and II) against fall armyworm under artificial infestation during <i>Kharif</i> , 2023 (Trial No, 1174)					
Location: HYDERABAD					
S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)			Mean Davis score (1-9 scale) for ear damage at harvest
		2	4	Overall Mean	
AVT I MEDIUM					
1	AHD 2077	6.56	6.15	6.36	5.08
2	BH 417144	6.94	7.30	7.12	4.63
3	BH 417189	7.02	7.20	7.11	4.75
4	CP 509	6.95	6.47	6.71	4.25
5	IM 36511	6.90	6.60	6.75	6.00
6	IMH 10-21K-2	6.96	7.13	7.05	5.13
7	IMH 2-22K-4	5.82	6.46	6.14	4.67
8	IMH 2-22K-6	5.13	6.75	5.94	4.83
9	IMH 2-22K-7	6.28	6.46	6.37	3.63
10	IMH 9-222	7.05	6.96	7.01	3.50
11	IQ 8393	6.78	6.98	6.88	3.00
12	IW 8477	6.44	6.17	6.31	4.25
13	JH 20088	6.96	7.10	7.03	2.92
14	JKMH 4059	6.93	6.31	6.62	5.30
15	JKMH 4823	7.36	6.96	7.16	4.88
16	KMH 8111	6.02	7.36	6.69	4.50
17	PM 22101	6.73	6.17	6.45	2.25
18	RCRMH 20	8.03	6.79	7.41	3.17
AVT II MEDIUM					
1	HM 21204	6.62	7.29	6.96	4.38
2	IMHSB 20K-10	6.01	5.44	5.73	4.88
3	JKMH 4546	6.85	5.73	6.29	4.73
4	PM 21103M	7.49	6.46	6.98	3.98
CHECKS					
1	BIO 605	7.15	6.46	6.81	4.67
2	BIO 9544	5.72	6.71	6.22	3.17
3	CMH-8-292	6.49	6.17	6.33	4.17
4	HTMH 5402	7.71	5.71	6.71	3.67
5	LG3405	7.18	7.17	7.18	4.00
6	BML 6	7.67	7.50	7.59	1.00
7	CM 501	5.50	7.25	6.38	3.50
Location Mean		6.73	6.66	6.70	4.10
CV (%)		12.78	12.07	9.38	30.74
CD (5%)		1.76	1.65	-	2.58
CD (1%)		2.38	2.22	-	3.48

Table 18. Evaluation of AICRP entries of Medium maturity (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1174)

Location: KOLHAPUR

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
AVT I MEDIUM				
1	AHD 2077	4.20	4.75	4.48
2	BH 417144	4.85	5.30	5.08
3	BH 417189	4.45	4.95	4.70
4	CP 509	4.90	5.50	5.20
5	IM 36511	5.60	6.05	5.83
6	IMH 10-21K-2	4.75	5.45	5.10
7	IMH 2-22K-4	4.75	5.20	4.98
8	IMH 2-22K-6	4.65	5.30	4.98
9	IMH 2-22K-7	4.85	5.30	5.08
10	IMH 9-222	4.90	5.40	5.15
11	IQ 8393	5.20	5.70	5.45
12	IW 8477	4.70	5.25	4.98
13	JH 20088	4.60	5.20	4.90
14	JKMH 4059	5.05	5.55	5.30
15	JKMH 4823	5.30	5.70	5.50
16	KMH 8111	4.75	5.25	5.00
17	PM 22101	4.40	4.95	4.68
18	RCRMH 20	3.80	4.40	4.10
AVT II MEDIUM				
1	HM 21204	4.90	5.40	5.15
2	IMHSB 20K-10	5.05	5.60	5.33
3	JKMH 4546	4.40	4.95	4.68
4	PM 21103M	4.55	5.10	4.83
CHECKS				
1	BIO 605	4.90	5.20	5.05
2	BIO 9544	4.85	5.35	5.10
3	CMH-8-292	5.10	5.70	5.40
4	HTMH 5402	5.25	5.70	5.48
5	LG3405	5.40	5.90	5.65
6	BML 6	5.15	5.60	5.38
7	CM 501	5.20	5.75	5.48
Location Mean		4.84	5.36	5.10
CV (%)		9.00	7.61	1.10
CD (5%)		0.89	0.84	0.11
CD (1%)		1.20	1.13	0.15

Table 19. Evaluation of AICRP entries of Medium maturity (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1174)

Location: Across locations

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
AVT I MEDIUM				
1	AHD 2077	5.17	5.78	5.48
2	BH 417144	5.11	5.40	5.26
3	BH 417189	4.98	5.49	5.24
4	CP 509	5.39	5.75	5.57
5	IM 36511	4.75	5.63	5.19
6	IMH 10-21K-2	5.03	5.54	5.29
7	IMH 2-22K-4	5.06	5.55	5.31
8	IMH 2-22K-6	4.98	5.49	5.24
9	IMH 2-22K-7	4.91	5.03	4.97
10	IMH 9-222	5.68	5.74	5.71
11	IQ 8393	4.87	5.74	5.31
12	IW 8477	5.27	5.52	5.40
13	JH 20088	5.08	5.58	5.33
14	JKMH 4059	5.58	5.54	5.56
15	JKMH 4823	5.37	5.79	5.58
16	KMH 8111	4.77	6.14	5.46
17	PM 22101	4.57	5.13	4.85
18	RCRMH 20	4.88	5.38	5.13
AVT II MEDIUM				
1	HM 21204	5.01	5.70	5.36
2	IMHSB 20K-10	4.93	5.31	5.12
3	JKMH 4546	5.01	5.57	5.29
4	PM 21103M	5.33	5.66	5.50
1	CHECKS			
	BIO 605	4.77	5.25	5.01
2	BIO 9544	4.91	5.45	5.18
3	CMH-8-292	4.89	5.41	5.15
4	HTMH 5402	5.42	5.31	5.37
5	LG3405	5.76	6.09	5.93
6	BML 6	4.77	5.79	5.28
7	CM 501	4.96	5.63	5.30
Location Mean		5.07	5.58	5.33
CV (%)		18.18	12.62	14.05
CD (5%)		1.34	1.42	0.44
CD (1%)		1.90	1.86	-

Table 20. Evaluation of AICRP entries of Late maturity (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1173)

Location: IMPHAL

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
AVT I LATE				
1	ADV 7434	5.50	7.00	6.25
2	AM 05674	6.00	7.00	6.50
3	BH 417018	5.50	7.50	6.50
4	BH 417177	5.00	8.00	6.50
5	BIO 9766	5.00	7.50	6.25
6	CP 988	5.50	8.00	6.75
7	HARLAL 24	5.00	8.00	6.50
8	HM 22201	4.00	7.00	5.50
9	IQ 8701	5.50	8.00	6.75
10	KMH 8206	5.00	7.00	6.00
11	KMH 8208	4.00	7.50	5.75
12	KMH 8388	4.50	7.00	5.75
13	MFH22 65	5.00	6.50	5.75
14	NS 8007	4.50	6.00	5.25
15	NS 8011	5.50	7.50	6.50
16	PM 21111 L	5.50	8.50	7.00
17	PM 22106	4.00	7.00	5.50
18	PM22112	4.00	6.00	5.00
19	PM 22113	5.00	7.50	6.25
20	PM 22117	5.50	7.50	6.50
21	SMH 235	5.50	8.00	6.75
22	SRMH 999	4.50	6.50	5.50
23	SUPER 2727	3.50	7.50	5.50
24	SYN 221610L	5.00	6.50	5.75
25	SYN 223671L	4.00	6.50	5.25
26	VNR 4324	5.50	6.50	6.00
AVT II LATE				
1	ADV 7211	5.00	8.00	6.50
2	BIO 207	4.00	6.50	5.25
3	KMH 8333	5.00	7.00	6.00
4	R 8050	6.50	9.00	7.75
CHECKS				
1	BIO 605	5.50	7.50	6.50
2	BIO 9544	4.50	6.50	5.50
3	BIO 9682	6.00	7.50	6.75
4	CMH 8-282	5.00	7.50	6.25
5	CMH 8-287	5.50	7.00	6.25

6	CP 858	4.00	7.00	5.50
7	NK 6240	4.50	6.00	5.25
8	BML 6	3.00	6.50	4.75
9	CM 501	4.50	7.00	5.75
Location Mean		4.88	7.19	6.04
CV (%)		24.22	14.96	8.138
CD (5%)		2.39	2.18	0.99
CD (1%)		3.21	2.92	1.33

Table 21. Evaluation of AICRP entries of late maturity (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1173)

Location: LUDHIANA

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
AVT I LATE				
1	ADV 7434	4.27	4.94	4.61
2	AM 05674	4.38	4.66	4.52
3	BH 417018	4.68	4.77	4.73
4	BH 417177	4.32	4.59	4.46
5	BIO 9766	4.51	4.54	4.53
6	CP 988	4.36	4.24	4.30
7	HARLAL 24	4.87	4.93	4.90
8	HM 22201	4.33	4.71	4.52
9	IQ 8701	4.13	4.54	4.34
10	KMH 8206	4.65	4.56	4.61
11	KMH 8208	4.60	4.80	4.70
12	KMH 8388	4.52	4.94	4.73
13	MFH22 65	4.40	4.53	4.47
14	NS 8007	4.43	4.66	4.55
15	NS 8011	4.37	4.60	4.49
16	PM 21111 L	4.74	4.99	4.87
17	PM 22106	4.75	4.84	4.80
18	PM 22112	4.54	4.27	4.41
19	PM 22113	4.23	4.73	4.48
20	PM 22117	4.35	4.64	4.50
21	SMH 235	4.56	4.95	4.76
22	SRMH 999	4.51	4.68	4.60
23	SUPER 2727	4.08	4.99	4.54
24	SYN 221610L	3.78	4.63	4.21
25	SYN 223671L	4.15	4.56	4.36
26	VNR 4324	4.82	4.69	4.76
AVT II LATE				
1	ADV 7211	4.45	4.60	4.53
2	BIO 207	4.33	4.96	4.65
3	KMH 8333	3.83	4.69	4.26
4	R 8050	4.43	4.39	4.41
CHECKS				
1	BIO 605	4.62	4.29	4.46
2	BIO 9544	4.52	4.33	4.43
3	BIO 9682	4.04	4.76	4.40
4	CMH 8-282	4.42	4.78	4.60

5	CMH 8-287	4.85	4.91	4.88
6	CP 858	4.61	4.79	4.70
7	NK 6240	4.72	4.55	4.64
8	BML 6	4.13	4.17	4.15
9	CM 501	4.76	4.78	4.77
Location Mean		4.43	4.66	4.55
CV (%)		8.24	6.92	4.82
CD (5%)		0.74	0.65	-
CD (1%)		0.99	0.87	-

Table 22. Evaluation of AICRP entries of Late maturity (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1173)

Location: COIMBATORE

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
AVT I LATE				
1	ADV 7434	3.26	3.03	3.15
2	AM 05674	5.46	4.18	4.82
3	BH 417018	5.54	4.19	4.87
4	BH 417177	2.26	2.13	2.20
5	BIO 9766	3.15	2.63	2.89
6	CP 988	3.04	2.46	2.75
7	HARLAL 24	4.19	3.53	3.86
8	HM 22201	4.53	4.19	4.36
9	IQ 8701	4.84	4.64	4.74
10	KMH 8206	5.53	4.42	4.98
11	KMH 8208	4.65	3.10	3.88
12	KMH 8388	3.27	2.61	2.94
13	MFH22 65	4.35	3.81	4.08
14	NS 8007	4.04	4.08	4.06
15	NS 8011	3.48	2.99	3.24
16	PM 21111 L	5.26	4.02	4.64
17	PM 22106	4.88	4.03	4.46
18	PM 22112	4.58	5.12	4.85
19	PM 22113	3.61	4.26	3.94
20	PM 22117	4.46	3.81	4.14
21	SMH 235	4.73	4.45	4.59
22	SRMH 999	3.65	2.87	3.26
23	SUPER 2727	3.35	4.45	3.90
24	SYN 221610L	4.30	3.34	3.82
25	SYN 223671L	5.84	3.36	4.60
26	VNR 4324	3.31	2.73	3.02
AVT II LATE				
1	ADV 7211	5.69	4.31	5.00
2	BIO 207	5.15	4.33	4.74
3	KMH 8333	4.65	3.69	4.17
4	R 8050	3.30	3.42	3.36
CHECKS				
1	BIO 605	4.88	4.55	4.72
2	BIO 9544	5.69	4.08	4.89
3	BIO 9682	3.88	3.10	3.49
4	CMH 8-282	3.34	2.92	3.13

5	CMH 8-287	6.04	7.11	6.58
6	CP 858	4.61	4.10	4.36
7	NK 6240	4.46	3.96	4.21
8	BML 6	1.73	3.10	2.42
9	CM 501	5.39	5.05	5.22
	Location Mean	4.32	3.80	4.06
	CV (%)	31.43	24.31	13.32
	CD (5%)	2.75	1.87	1.09
	CD (1%)	3.68	2.50	1.46

Table 23. Evaluation of AICRP entries of Late maturity (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1173)

Location: HYDERABAD

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
AVT I LATE				
1	ADV 7434	7.63	6.75	7.19
2	AM 05674	7.76	7.00	7.38
3	BH 417018	7.75	7.68	7.72
4	BH 417177	7.80	7.30	7.55
5	BIO 9766	7.79	7.01	7.40
6	CP 988	8.00	6.71	7.36
7	HARLAL 24	7.38	5.90	6.64
8	HM 22201	7.71	7.15	7.43
9	IQ 8701	7.36	6.53	6.95
10	KMH 8206	7.15	7.33	7.24
11	KMH 8208	8.00	7.42	7.71
12	KMH 8388	8.00	6.87	7.44
13	MFH22 65	7.47	7.30	7.39
14	NS 8007	7.36	7.41	7.39
15	NS 8011	6.43	6.04	6.24
16	PM 21111 L	7.25	6.90	7.08
17	PM 22106	8.00	6.89	7.45
18	PM 22112	7.56	7.71	7.64
19	PM 22113	7.51	7.28	7.40
20	PM 22117	7.61	7.13	7.37
21	SMH 235	7.06	7.45	7.26
22	SRMH 999	7.71	7.12	7.42
23	SUPER 2727	6.92	6.69	6.81
24	SYN 221610L	7.21	6.99	7.10
25	SYN 223671L	7.92	7.25	7.59
26	VNR 4324	7.51	7.48	7.50
AVT II LATE				
1	ADV 7211	7.69	7.15	7.42
2	BIO 207	6.81	7.65	7.23
3	KMH 8333	8.00	7.44	7.72
4	R 8050	7.79	6.83	7.31
CHECKS				
1	BIO 605	7.86	6.55	7.21
2	BIO 9544	8.04	7.04	7.54
3	BIO 9682	8.00	6.79	7.40
4	CMH 8-282	7.56	7.11	7.34

5	CMH 8-287	8.00	7.53	7.77
6	CP 858	6.94	7.32	7.13
7	NK 6240	7.81	6.19	7.00
8	BML 6	5.41	7.24	6.33
9	CM 501	4.13	6.42	5.28
Location Mean		7.43	7.04	7.24
CV (%)		8.11	9.32	7.73
CD (5%)		1.22	1.33	-
CD (1%)		1.63	1.78	-

Table 24. Evaluation of AICRP entries of Late maturity (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1173)

Location: KOLHAPUR

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
AVT II LATE				
1	ADV 7434	5.10	7.00	6.05
2	AM 05674	4.25	6.30	5.28
3	BH 417018	4.85	6.85	5.85
4	BH 417177	4.50	6.55	5.53
5	BIO 9766	5.30	6.55	5.93
6	CP 988	4.75	6.55	5.65
7	HARLAL 24	5.70	5.75	5.73
8	HM 22201	5.30	5.90	5.60
9	IQ 8701	4.90	6.20	5.55
10	KMH 8206	4.75	6.40	5.58
11	KMH 8208	4.45	6.75	5.60
12	KMH 8388	4.70	7.05	5.88
13	MFH22 65	5.10	6.15	5.63
14	NS 8007	4.75	6.20	5.48
15	NS 8011	4.75	6.20	5.48
16	PM 21111 L	5.00	5.20	5.10
17	PM 22106	4.95	6.50	5.73
18	PM 22112	5.00	5.95	5.48
19	PM 22113	4.85	5.00	4.93
20	PM 22117	4.05	6.20	5.13
21	SMH 235	5.10	7.30	6.20
22	SRMH 999	4.95	6.80	5.88
23	SUPER 2727	5.15	6.00	5.58
24	SYN 221610L	5.65	6.65	6.15
25	SYN 223671L	4.85	5.90	5.38
26	VNR 4324	4.80	7.00	5.90
AVT II LATE				
1	ADV 7211	4.70	7.15	5.93
2	BIO 207	4.80	5.90	5.35
3	KMH 8333	4.90	6.60	5.75
4	R 8050	4.70	4.80	4.75
CHECKS				
1	BIO 605(4.70	6.85	5.78
2	BIO 9544	5.00	6.40	5.70
3	BIO 9682	4.20	6.15	5.18
4	CMH 8-282	5.10	6.05	5.58
5	CMH 8-287	5.25	5.30	5.28

6	CP 858	5.50	6.50	6.00
7	NK 6240	4.00	6.50	5.25
8	BML 6	4.95	5.45	5.20
9	CM 501	4.55	5.20	4.88
Location Mean		4.87	6.25	5.56
CV (%)		10.95	14.59	9.33
CD (5%)		1.08	1.85	-
CD (1%)		1.45	2.47	-

Table 25. Evaluation of AICRP entries of Late (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1173)

Location: ACROSS LOCATIONS

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
AVT I LATE				
1	ADV 7434	5.15	5.74	5.45
2	AM 05674	5.57	5.83	5.70
3	BH 417018	5.66	6.20	5.93
4	BH 417177	4.78	5.71	5.25
5	BIO 9766	5.15	5.65	5.40
6	CP 988	5.13	5.59	5.36
7	HARLAL 24	5.43	5.62	5.53
8	HM 22201	5.17	5.79	5.48
9	IQ 8701	5.35	5.98	5.67
10	KMH 8206	5.42	5.94	5.68
11	KMH 8208	5.14	5.91	5.53
12	KMH 8388	5.00	5.69	5.35
13	MFH22 65	5.26	5.66	5.46
14	NS 8007	5.02	5.67	5.35
15	NS 8011	4.91	5.47	5.19
16	PM 21111 L	5.55	5.92	5.74
17	PM 22106	5.32	5.85	5.59
18	PM 22112	5.14	5.81	5.48
19	PM 22113	5.04	5.75	5.40
20	PM 22117	5.19	5.86	5.53
21	SMH 235	5.39	6.43	5.91
22	SRMH 999	5.06	5.59	5.33
23	SUPER 2727	4.60	5.93	5.27
24	SYN 221610L	5.19	5.62	5.41
25	SYN 223671L	5.35	5.51	5.43
26	VNR 4324	5.19	5.68	5.44
AVT II LATE				
1	ADV 7211	5.51	6.24	5.88
2	BIO 207	5.02	5.87	5.45
3	KMH 8333	5.28	5.88	5.58
4	R 8050	5.34	5.69	5.52
CHECKS				
1	BIO 605	5.51	5.95	5.73
2	BIO 9544	5.55	5.67	5.61
3	BIO 9682	5.22	5.66	5.44
4	CMH 8-282	5.08	5.67	5.38

5	CMH 8-287	5.93	6.37	6.15
6	CP 858	5.13	5.94	5.54
7	NK 6240	5.10	5.44	5.27
8	BML 6	3.84	5.29	4.57
9	CM 501	4.67	5.69	5.18
Location Mean		5.19	5.79	5.49
CV (%)		16.59	14.02	3.632
CD (5%)		1.64	1.58	0.40
CD (1%)		2.19	2.11	0.54

Table 26. Evaluation of AICRP entries of QPM (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1175)

Location: IMPHAL

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
AVT I				
1	APH 6	3.50	7.00	5.25
2	APQWH 8	3.50	6.50	5.00
3	AQWH 5	4.50	7.25	5.88
4	AQWH 8	4.00	7.50	5.75
5	FLPH 45	4.50	7.00	5.75
6	FMH 24	4.00	7.50	5.75
7	FQH 160	3.00	7.00	5.00
8	IQPMH 2110	4.50	7.50	6.00
9	IQPMH 2111	5.50	7.00	6.25
10	IQPMH 2113	4.50	8.00	6.25
11	IQPMH 2114	5.00	8.00	6.50
12	IQPMH 2203	4.00	6.00	5.00
13	IQPMH 2204	5.00	7.00	6.00
14	IQPMH 2205	2.50	6.00	4.25
AVT II				
1	ALPQH 1	2.00	5.00	3.50
2	ALQH 9	3.00	6.00	4.50
3	APTQH 1	2.50	5.00	3.75
4	APQH 4	4.00	6.00	5.00
5	AQWH 4	6.00	8.00	7.00
6	FQPLH 20	6.00	7.50	6.75
7	FWQH 1	3.00	5.50	4.25
8	IQPMH 2012	5.50	7.50	6.50
9	IQPMH 2102	5.00	7.50	6.25
10	IQPMH 2105	4.00	6.00	5.00
11	IQPMH 2108	4.00	6.50	5.25
12	IQPMH 2109	2.50	6.00	4.25
13	QPMH 1	2.00	6.50	4.25
CHECKS				
1	APH1	4.50	8.00	6.25
2	BIO 9544	3.50	7.00	5.25
3	BIO 605	5.00	6.50	5.75
4	BIO 9544	3.50	8.00	5.75
5	CMVL 55	5.00	6.50	5.75
6	HM 4	4.00	7.50	5.75
7	HM 8	3.70	6.91	5.31
8	HM 9	3.50	6.50	5.00

9	HQPM 1	4.50	7.00	5.75
10	HQPM 4	2.50	6.50	4.50
11	HQPM 5	3.00	6.50	4.75
12	IQMH 202	4.00	8.00	6.00
13	IQMH 203	4.50	7.00	5.75
14	LQMH 1	5.50	7.50	6.50
15	VIVEK QPM 9	4.00	6.50	5.25
16	VMH 45	4.50	6.50	5.50
17	VMH 53	2.50	6.00	4.25
18	BML 6	2.70	4.91	3.81
19	CM 501	3.30	5.09	4.20
Location Mean		3.98	6.80	5.39
CV (%)		30.16	17.66	10.77
CD (5%)		2.42	2.42	1.16
CD (1%)		3.23	3.23	1.54

Table 27. Evaluation of AICRP entries of QPM (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1175)

Location: LUDHIANA

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
AVT I				
1	APH 6	3.33	3.91	3.62
2	APQWH 8	3.78	4.45	4.12
3	AQWH 5	3.80	4.75	4.28
4	AQWH 8	3.58	4.57	4.08
5	FLPH 45	4.21	4.68	4.45
6	FMH 24	3.68	4.26	3.97
7	FQH 160	3.71	4.11	3.91
8	IQPMH 2110	3.68	4.72	4.20
9	IQPMH 2111	3.83	4.31	4.07
10	IQPMH 2113	3.86	4.84	4.35
11	IQPMH 2114	3.54	4.44	3.99
12	IQPMH 2203	3.53	4.33	3.93
13	IQPMH 2204	3.67	4.48	4.08
14	IQPMH 2205	3.63	4.57	4.10
AVT II				
1	ALPQH 1	3.46	3.96	3.71
2	ALQH 9	3.26	4.06	3.66
3	APTQH 1	3.63	4.53	4.08
4	APQH 4	3.43	4.38	3.91
5	AQWH 4	3.70	4.12	3.91
6	FQPLH 20	3.79	4.28	4.04
7	FWQH 1	3.33	4.86	4.10
8	IQPMH 2108	3.33	4.86	4.10
9	IQPMH 2109	3.83	4.25	4.04
10	IQPMH 2012	3.39	3.99	3.69
11	IQPMH 2102	3.59	4.45	4.02
12	IQPMH 2105	3.71	4.40	4.06
13	QPMH 1	3.72	4.25	3.99
CHECKS				
1	APH 1	3.56	4.38	3.97
2	BIO 9544	3.98	4.41	4.20
3	BIO 605	3.52	4.08	3.80
4	BIO 9544	3.51	4.09	3.80
5	CMVL 55	4.25	4.80	4.53
6	HM 4	3.50	4.08	3.79
7	HM 8	3.26	4.21	3.74
8	HM 9	3.68	4.27	3.98

9	HQPM 1	3.54	4.71	4.13
10	HQPM 4	3.65	4.49	4.07
11	HQPM 5	3.32	4.19	3.76
12	IQMH 202	3.72	4.16	3.94
13	IQMH 203	3.63	4.31	3.97
14	LQMH 1	3.80	4.40	4.10
15	VIVEK QPM 9	3.74	4.13	3.94
16	VMH 45	3.69	4.16	3.93
17	VMH 53	3.54	4.43	3.99
18	BML 6	3.57	4.23	3.90
19	CM 501	3.69	4.91	4.30
Location Mean		3.64	4.38	4.01
CV (%)		6.88	6.41	4.885
CD (5%)		0.50	0.57	0.39
CD (1%)		0.67	0.75	-

Table 28. Evaluation of AICRP entries of QPM (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1175)

Location: COIMBATORE

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
AVT I				
1	APH 6	3.95	4.65	4.30
2	APQWH 8	3.65	4.45	4.05
3	AQWH 5	4.21	5.63	4.92
4	AQWH 8	3.57	3.10	3.34
5	FLPH 45	3.87	4.35	4.11
6	FMH 24	4.73	5.35	5.04
7	FQH 160	3.85	5.60	4.73
8	IQPMH 2110	3.54	3.30	3.42
9	IQPMH 2111	4.27	4.35	4.31
10	IQPMH 2113	3.97	3.80	3.89
11	IQPMH 2114	4.23	3.30	3.77
12	IQPMH 2203	4.22	4.20	4.21
13	IQPMH 2204	4.12	5.40	4.76
14	IQPMH 2205	4.15	5.65	4.90
AVT II				
1	ALPQH 1	3.94	3.20	3.57
2	ALQH 9	3.81	5.20	4.51
3	APTQH 1	4.75	4.40	4.58
4	APQH 4	4.19	4.50	4.35
5	AQWH 4	4.34	4.50	4.42
6	FQPLH 20	3.97	5.45	4.71
7	FWQH 1	4.87	4.65	4.76
8	IQPMH 2108	3.88	4.90	4.39
9	IQPMH 2109	3.77	3.10	3.44
10	IQPMH 2012	3.17	3.25	3.21
11	IQPMH 2102	2.65	3.45	3.05
12	IQPMH 2105	3.85	4.55	4.20
13	QPMH 1	4.38	4.05	4.22
CHECKS				
1	APH 1	4.69	3.75	4.22
2	BIO 9544	3.37	4.85	4.11
3	BIO 605	3.71	3.75	3.73
4	BIO 9544	2.95	4.25	3.60
5	CMVL 55	4.38	3.80	4.09
6	HM 4	3.18	2.80	2.99
7	HM 8	2.95	3.65	3.30
8	HM 9	3.66	3.50	3.58

9	HQPM 1	3.65	3.40	3.53
10	HQPM 4	4.59	4.85	4.72
11	HQPM 5	3.35	3.15	3.25
12	IQMH 202	3.34	2.95	3.15
13	IQMH 203	2.85	2.65	2.75
14	LQMH 1	4.27	6.60	5.44
15	VIVEK QPM 9	2.11	4.20	3.16
16	VMH 45	4.23	5.40	4.82
17	VMH 53	3.47	3.65	3.56
18	BML 6	2.98	5.30	4.14
19	CM 501	4.59	4.95	4.77
Location Mean		3.84	4.29	4.07
CV (%)		26.28	24.81	14.89
CD (5%)		2.03	2.14	1.20
CD (1%)		2.71	2.85	1.61

Table 29. Evaluation of AICRP entries of QPM (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1175)

Location: HYDERABAD

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
AVT I				
1	APH 6	6.20	7.25	6.73
2	APQWH 8	6.66	5.75	6.21
3	AQWH 5	6.42	6.43	6.43
4	AQWH 8	5.87	4.80	5.34
5	FLPH 45	6.57	5.14	5.89
6	FMH 24	5.38	5.02	5.20
7	FQH 160	6.38	5.70	6.04
8	IQPMH 2110	5.66	6.75	6.21
9	IQPMH 2111	6.61	5.92	6.27
10	IQPMH 2113	5.52	6.67	6.10
11	IQPMH 2114	6.00	6.75	6.38
12	IQPMH 2203	6.24	5.95	6.10
13	IQPMH 2204	6.51	7.03	6.77
14	IQPMH 2205	6.46	6.98	6.72
AVT II				
1	ALPQH 1	5.00	7.50	6.25
2	ALQH 9	4.56	6.88	5.72
3	APTQH 1	6.08	7.33	6.71
4	APQH 4	5.69	6.20	5.95
5	AQWH 4	6.54	5.43	5.99
6	FWQH 1	6.20	7.36	6.78
7	FQPLH 20	6.61	4.77	5.69
8	IQPMH 2108	5.90	5.45	5.68
9	IQPMH 2109	7.00	6.55	6.78
10	IQPMH 2012	4.61	5.17	4.89
11	IQPMH 2102	6.68	6.20	6.44
12	IQPMH 2105	5.86	4.90	5.38
13	QPMH 1	5.12	6.96	6.04
CHECKS				
1	APH 1	6.42	6.00	6.21
2	BIO 9544	6.75	6.30	6.53
3	BIO 605	5.43	6.31	5.87
4	BIO 9544	5.05	6.17	5.61
5	CMVL 55	6.63	6.34	6.49
6	HM 4	7.56	7.25	7.41
7	HM 8	4.79	7.10	5.95
8	HM 9	5.22	6.08	5.65

9	HQPM 1	6.10	6.40	6.25
10	HQPM 4	7.17	7.17	7.17
11	HQPM 5	5.44	6.75	6.10
12	IQMH 202	6.11	5.87	5.99
13	IQMH 203	6.40	5.90	6.15
14	LQMH 1	6.54	6.65	6.60
15	VIVEK QPM 9	5.74	4.50	5.12
16	VMH 45	6.05	5.80	5.94
17	VMH 53	6.79	6.25	6.52
18	BML 6	6.63	8.00	7.32
19	CM 501	3.14	7.17	5.16
Location Mean		6.04	6.27	6.17
CV (%)		15.37	12.36	13.50
CD (5%)		1.87	1.56	-
CD (1%)		2.50	2.08	-

Table 30. Evaluation of AICRP entries of QPM (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1175)

Location: KOLHAPUR

S. No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
AVT I				
1	APH 6	5.00	5.25	5.13
2	APQWH 8	4.60	4.85	4.73
3	AQWH 5	4.85	5.13	4.99
4	AQWH 8	4.80	5.55	5.18
5	FLPH 45	5.20	5.40	5.30
6	FMH 24	4.50	4.90	4.70
7	FQH 160	5.40	5.65	5.53
8	IQPMH 2110	5.10	5.35	5.23
9	IQPMH 2111	4.85	5.10	4.98
10	IQPMH 2113	4.85	5.35	5.10
11	IQPMH 2114	4.60	5.00	4.80
12	IQPMH 2203	5.00	5.30	5.15
13	IQPMH 2204	4.65	5.15	4.90
14	IQPMH 2205	5.20	5.45	5.33
AVT II				
1	ALPQH 1	4.45	4.70	4.58
2	ALQH 9	4.95	5.20	5.08
3	APTQH 1	4.70	4.90	4.80
4	APQH 4	5.00	5.35	5.18
5	AQWH 4	5.30	5.60	5.45
6	FQPLH 20	4.55	4.95	4.75
7	FWQH 1	5.30	5.45	5.38
8	IQPMH 2108	5.05	5.20	5.13
9	IQPMH 2109	4.45	4.85	4.65
10	IQPMH 2012	5.20	5.45	5.33
11	IQPMH 2102	4.10	4.45	4.28
12	IQPMH 2105	4.55	4.80	4.68
13	QPMH 1	4.55	4.90	4.73
CHECKS				
1	APH 1	5.00	5.20	5.10
2	BIO 9544	4.95	5.15	5.05
3	BIO 605	4.90	5.25	5.08
4	BIO 9544	5.25	5.50	5.38
5	CMVL 55	5.05	5.50	5.28
6	HM 4	5.15	5.40	5.28
7	HM 8	4.55	4.85	4.70
8	HM 9	4.60	4.90	4.75

9	HQPM 1	4.00	4.60	4.30
10	HQPM 4	4.40	4.80	4.60
11	HQPM 5	4.95	5.20	5.08
12	IQMH 202	4.60	5.00	4.80
13	IQMH 203	5.35	5.60	5.48
14	LQMH 1	4.95	5.15	5.05
15	VIVEK QPM 9	5.30	5.60	5.45
16	VMH 45	4.85	5.15	5.00
17	VMH 53	5.10	5.50	5.30
18	BML 6	5.50	5.70	5.60
19	CM 501	5.10	5.40	5.25
Location Mean		4.88	5.19	5.04
CV (%)		13.09	10.79	16.33
CD (5%)		1.28	1.13	0.16
CD (1%)		1.71	1.50	0.22

Table 31. Evaluation of AICRP entries of QPM (AVT I and II) against fall armyworm under artificial infestation during *Kharif*, 2023 (Trial No, 1175)

Location: OVERALL MEAN OF LOCATIONS (5)

S.No.	Name of the entry	Mean Leaf damage rating (1-9 Scale) by Fall armyworm (Weeks after infestation)		
		2	4	Overall Mean
AVT I				
1	APH 6	4.40	5.61	5.01
2	APQWH 8	4.44	5.20	4.82
3	AQWH 5	4.76	5.84	5.30
4	AQWH 8	4.36	5.10	4.73
5	FLPH 45	4.87	5.31	5.09
6	FMH 24	4.46	5.41	4.94
7	FQH 160	4.47	5.61	5.04
8	IQPMH 2110	4.50	5.52	5.01
9	IQPMH 2111	5.01	5.34	5.18
10	IQPMH 2113	4.54	5.73	5.14
11	IQPMH 2114	4.67	5.50	5.09
12	IQPMH 2203	4.60	5.16	4.88
13	IQPMH 2204	4.79	5.81	5.30
14	IQPMH 2205	4.39	5.73	5.06
AVT II				
1	ALPQH 1	3.77	4.87	4.32
2	ALQH 9	3.92	5.47	4.70
3	APQH 4	4.46	5.29	4.88
4	APTQH 1	4.33	5.23	4.78
5	AQWH 4	5.18	5.53	5.36
6	FQPLH 20	4.98	5.39	5.19
7	FWQH 1	4.54	5.56	5.05
8	IQPMH 2108	4.51	5.38	4.95
9	IQPMH 2109	4.31	4.95	4.63
10	IQPMH 2012	4.37	5.07	4.72
11	IQPMH 2102	4.40	5.21	4.81
12	IQPMH 2105	4.39	4.93	4.66
13	QPMH 1	3.95	5.33	4.64
CHECKS				
1	APH1	4.83	5.47	5.15
2	BIO 9544	4.51	5.54	5.03
3	BIO 605	4.51	5.18	4.85
4	BIO 9544	4.05	5.60	4.83
5	CMVL 55	5.06	5.39	5.23
6	HM 4	4.68	5.41	5.05

7	HM 8	3.85	5.34	4.60
8	HM 9	4.13	5.05	4.59
9	HQPM 1	4.36	5.22	4.79
10	HQPM 4	4.46	5.56	5.01
11	HQPM 5	4.01	5.16	4.59
12	IQMH 202	4.35	5.20	4.78
13	IQMH 203	4.55	5.09	4.82
14	LQMH 1	5.01	6.06	5.54
15	VIVEK QPM 9	4.18	4.99	4.59
16	VMH 45	4.66	5.40	5.03
17	VMH 53	4.28	5.17	4.73
18	BML 6	4.28	5.63	4.96
19	CM 501	3.96	5.50	4.73
Location Mean		4.48	5.39	4.94
CV (%)		18.36	14.41	4.73
CD (5%)		1.62	1.56	0.46
CD (1%)		2.16	2.08	0.62