

| APR response of AVT IInd and Ist year entries to individual races of <i>Puccinia graminis tritici</i> . | | | | | | |
|---|---------------------|--------|------|------------|--------|--------|
| Sr. No. | Variety | 40A | | | 117-6 | |
| | | Indore | Pune | Powerkheda | Indore | Pune |
| AVT IInd Year | | | | | | |
| I. NORTHERN HILL ZONE | | | | | | |
| 1 | HPW 251 (C) | 5R | TR | 10MS | TR | 10MR |
| 2 | HS 375 (C) | 5R | TR | 10MR | 0 | 10MR |
| 3 | HS 490 (C) | 5MR | TR | 10MS | TR | 20MR |
| 4 | HS 507 (C) | 0 | 0 | TR | TMR | 10MR |
| 5 | HS 542 (C) | 0 | 0 | TR | 0 | 5MR |
| 6 | VL 829 (C) | 0 | 0 | 0 | 0 | 10MR |
| 7 | VL 892 (C) | TMS | 5MR | 0 | 5MR | 5MR |
| II. NORTH WESTERN PLAIN ZONE | | | | | | |
| 8 | DBW 88 (C) | TMR | TR | 10MS | 5MR | 20MR |
| 9 | DBW 90 (C) | 30MSS | 20MS | 10MS | 40MRMS | 30S |
| 10 | HD 3043 (C) | 5R | 5MR | 10MS | TMR | 20MS |
| 11 | HD 2967 (C) | 10S | TR | 10MS | 10MRMS | 30MS |
| 12 | HD 3059 (C) | 5S | TR | 10MS | 10S | 5MR |
| 13 | HD 3086 (C) | 30S | 30S | 10MS | 40MRMS | 30MS |
| 14 | PBW 644 (C) | 5MS | 5MR | 10MS | 5S | 20MR |
| 15 | WH 1021 (C) | 5R | 20MS | TR | 30R | 20MR |
| 16 | WH 1080 (C) | 20MRMS | 20MS | 0 | 40R | 10MR |
| 17 | WH 1105 (C) | 30MSS | 10MS | 10MS | 20MSS | 5MR |
| 18 | WH 1124 (C) | 30MSS | 20S | 20MS | 40MRMS | 10MR |
| 19 | WH 1142 (I) C) | 5R | 20MS | 10MR | 20MR | 10MR |
| III. NORTH EASTERN PLAIN ZONE | | | | | | |
| 20 | HD 3171 | 20MRMS | 20MS | 30MS | 10MRMS | 5MR |
| 20. A | INFECTOR | 100S | 80S | 80S | 100S | 80S |
| 21 | K 1317 | TR | 5MR | 10MR | 0 | 5MR |
| 22 | C 306 (C) | 60MSS | 40S | 30S | 40MSS | 30MS |
| 23 | DBW 39 (C) | 10MSS | 5MR | 10MR | TMR | 10MR |
| 24 | HD 2733 (C) | TS | 10MR | 20MS | 5R | 20MR |
| 25 | HD 2888 (C) | 0 | TR | 10MS | 0 | 5MR |
| 26 | K 8027 (C) | 40S | 30MS | 20S | 10MSS | 30S |
| 27 | K 0307 (C) | 5MRMS | 0 | 20MS | 10MR | 30MR |
| 28 | K 1006 (C) | 10MR | 5MR | 20MS | 5MRMS | 10MR |
| IV. CENTRAL ZONE | | | | | | |
| 29 | HI 8759 (D) | TS | TR | 0 | 10MS | 10MRMS |
| 30 | HD 4728 (D) (I) (C) | TS | 5MR | 0 | 20MSS | 10MR |
| 31 | HI 8498 (D) (C) | 5MR | 5MR | 0 | 10S | 20MS |
| 32 | HI 8737 (D) (C) | 20MSS | 5MS | 0 | 30MRMS | 5MR |
| 33 | MPO 1215 (d) (C) | 5MR | 5MR | 0 | 20S | 10MS |
| V. PENINSULAR ZONE | | | | | | |
| 34 | MACS 3949 (d) | 10MRMS | 20MS | 0 | 10S | 10MS |
| 35 | HI 1605 | 10MSS | 0 | 0 | TMR | 5MR |
| 36 | AKDW 2997-16(d) (C) | 10MSS | 10S | 0 | 20MS | 20S |
| 37 | DBW 93 (C) | TR | 0 | 15MS | 5R | 20MR |
| 38 | HD 2932 (C) | 10S | 30S | 20MS | 10MRMS | 20MR |
| 39 | MACS 6222 (C) | 5R | 5MR | TR | 5R | TR |
| 40 | MACS 6478 (C) | 10MRMS | 30S | 10MS | 20MR | 5MR |

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|---|------------------|--------|------|------------|--------|-------|
| | | Indore | Pune | Powerkheda | Indore | Pune |
| 40. A | INFECTOR | 100S | 80S | 80S | 100S | 80S |
| 41 | NI 5439 (C) | 60MSS | 60S | 10MS | 30MRMS | 10MR |
| 42 | NIAW 1415 (C) | 0 | 20MR | TR | 0 | 5MR |
| 43 | NIAW 34 (C) | 5R | 5MR | TR | 5MR | 20MR |
| 44 | NIDW 295 (D) (C) | 10MR | 30MS | 0 | 5MRMS | 10MR |
| 45 | RAJ 4083 (C) | 10R | 20MR | 0 | 5RMR | 5MR |
| 46 | UAS 428 (d) (C) | 10MRMS | 40MR | 0 | 10S | 10MR |
| 47 | UAS 446 (d) (C) | 10MRMS | 40MR | 0 | 30S | 30MSS |
| VI. SOUTHERN HILLS ZONE | | | | | | |
| 48 | HW 2044 (C) | | - | - | - | - |
| 49 | HW 5216 (C) | | - | - | - | - |
| 50 | CoW (W) -1 (C) | | - | - | - | - |
| VII. SPECIAL TRIAL (MABB-IR-LS-CZ/PZ/WB) | | | | | | |
| 51 | HD 3209 | 5R | 30MR | 0 | 20RMR | 20MR |
| 52 | PBW 723 | 5R | 20MR | TR | 0 | 5MR |
| 53 | WB 2 | 20MSS | 30S | 0 | 20MSS | 5MR |
| 54 | DBW 14 (C) | 10RMR | 30MS | 0 | 30MR | 5MR |
| 55 | DBW 71 (C) | 5R | 40MR | TR | 30MR | 10MR |
| 56 | DDK 1029 (C) | 5S | 10MR | 0 | 5S | 5MR |
| 57 | DPW 621-50 (C) | TS | 20MR | 10MS | 5MR | 5MR |
| 58 | GW 322 (C) | 20MR | 5MR | 10MS | 10RMR | 5MR |
| 59 | HD 2864 (C) | 5R | 5MR | 20MS | 10R | 20MR |
| 60 | HW 1098 (C) | 5MRMS | 10MR | TR | 10R | 20MR |
| 60. A | INFECTOR | 100S | 80S | 80S | 100S | 80S |
| 61 | Kharchia 65 (C) | 80S | 60S | 0 | 30MSS | 40S |
| 62 | KRL 19 (C) | 10RMR | 40MS | TR | 10MR | 5MR |
| 63 | KRL 210 (C) | 50MRMS | 60S | 20MS | 30MRMS | 40S |
| 64 | MP 3336 (C) | 5RMR | 10MR | TR | 10R | 5MR |
| 65 | PBW 343 (C) | 20MR | 40MR | TR | 5R | 5MR |
| 66 | TL 2942 (C) | 5S | 10MR | 0 | TMR | TR |
| 67 | TL 2969 (C) | 5S | 20MS | 0 | TMR | TR |
| 68 | WR 544 (C) | 80S | 60S | 0 | 60MRMS | 20MR |
| 68. A | INFECTOR | 100S | 80S | 80S | 100S | 80S |
| AVT Ist Year | | | | | | |
| I. NORTHERN HILL ZONE | | | | | | |
| 1 | HPW 423 | 40MSS | 40MS | 0 | 20MSS | 10MR |
| 2 | HPW 424 | 30MSS | 5MR | 10MS | 5MSS | TR |
| 3 | HPW 432 | 10MRMS | 10MR | 15MS | 0 | TR |
| 4 | HPW 433 | TMR | 10MR | 0 | 5R | 10MR |
| 5 | HS 622 | 30MRMR | TR | 5MS | 10RMR | TR |
| 6 | HS 623 | TMR | 5MR | 0 | TR | 0 |
| 7 | HS 625 | 40MSS | 40MS | 5MS | 10S | 20MR |
| 8 | HS 626 | 40MRMS | 40MS | 0 | 10MRMS | 20MS |
| 9 | HS 627 | 40S | 40S | 0 | 20S | 5MR |
| 10 | HS 628 | TS | 10MR | 0 | 5R | TR |
| 11 | UP 2954 | 10S | 30S | 15MS | 10MS | 5MR |
| 12 | UP 2955 | 10R | 5MR | 0 | TS | TR |
| 13 | VL 1008 | 20S | 20S | 5MS | 5S | 5MR |
| 14 | VL 1009 | 30MSS | 20MS | 0 | 10S | 0 |

| Sr. No. | Variety | 40A | | | 117-6 | |
|--|---------------|--------|------|------------|--------|-------|
| | | Indore | Pune | Powerkheda | Indore | Pune |
| 15 | VL 1010 | 40MSS | 40S | TR | 20MSS | 5MR |
| 16 | VL 3010 | 20MRMS | 5MR | 0 | 5MR | 0 |
| 17 | VL 3011 | 20RMR | 5MR | 0 | TMR | 5MR |
| 18 | VL 3012 | 40MSS | 30S | 0 | 5MSS | 30S |
| II. NORTH WESTERN PLAIN ZONE | | | | | | |
| 19 | DBW 172 | 40MSS | 40MS | 0 | 5MRMS | 30S |
| 20 | DBW 173 | 5MRMS | TR | 0 | 0 | 5MR |
| 20. A | INFECTOR | 0 | 80S | 90S | 0 | 80S |
| 21 | DBW 179 | 20MS | 20MS | 5MS | 20MSS | 20MS |
| 22 | NW 6046 | 40MSS | 5MR | 10MS | 30MSS | 30MR |
| 23 | PBW 725 | 5MR | TR | 10MS | TMR | 20MR |
| 24 | PBW 737 | 10MSS | TR | 10MS | 5MR | 10MR |
| 25 | UP 2903 | 30MSS | 0 | 10MS | 20MRMS | 20MR |
| 26 | UP 2907 | 10S | 0 | 15MS | 30MSS | 10MR |
| 27 | WH 1184 | 20S | 10MR | 10MS | 20RMR | 20MSS |
| III. NORTH EASTERN PLAIN ZONE | | | | | | |
| 28 | HD 3184 | 5S | 0 | 10MS | 5MRMS | 10MR |
| 29 | HI 1612 | 30S | 20MS | 15MS | 40MRMS | 20MS |
| 30 | WH 1181 | 5MR | 5MR | 10MS | 0 | 5MR |
| IV. CENTRAL ZONE | | | | | | |
| 31 | HI 8774 (D) | TMR | 20MR | 0 | 5MSS | 30MR |
| 32 | PDW 344 (D) | 10MR | 10MR | 0 | 10S | 20MSS |
| V. PENINSULAR ZONE | | | | | | |
| 33 | AKAW 4842 | 5R | 0 | 0 | 5R | 10MR |
| 34 | DBW 168 | TMR | TR | 0 | 0 | 20MR |
| 35 | GW 477 | 10R | 5MR | 0 | 5R | 10MR |
| 36 | HI 8777 (D) | 10MR | 10MR | 0 | 5S | 20MR |
| 37 | KD 1418 (D) | 10S | 20S | 0 | 5S | 30S |
| 38 | MACS 4028 (D) | 5S | 5MR | 0 | TS | 20MR |
| 39 | MACS 6660 | 5MR | 0 | 10MS | 5MRMS | 10MR |
| 40 | NIAW 2495 | 30MRMS | 10MR | 10MS | 20MR | 5MR |
| 40. A | INFECTOR | 100S | 80S | 80S | 100S | 80S |
| 41 | RKD 283 (D) | 10MR | 10MR | 0 | 5MS | 20MS |
| 42 | RKD 292 (D) | 10S | 10MR | 0 | 10S | 10MR |
| 43 | UAS 375 | 10MRMS | 5MR | | 5R | 5MR |
| 44 | UAS 459 (D) | 5MRMS | 10MR | 0 | 5MSS | 20MR |
| VI. SPECIAL TRIAL (Dicoccum and Sailinity and Alkalinity) | | | | | | |
| 45 | DBW 214 | 20MRMS | 5MR | 0 | 10MRMS | 5MR |
| 46 | DBW 215 | 5S | 20MS | 0 | 5S | 20MS |
| 47 | DBW 216 | 5MRMS | 5MR | 0 | 5S | TR |
| 48 | DBW 217 | 5R | 10MR | 0 | 0 | 5MR |
| 49 | DDK 1050 | 5R | 5MR | 0 | 5MRMS | 5MR |
| 50 | DDK 1051 | 0 | 5MR | 0 | 5S | 5MR |
| 51 | KA 1427 | TMR | 5MR | 15MS | 10R | TR |
| 52 | MACS 5044 | TR | 5MR | 0 | 5MRMS | TR |
| 53 | MACS 5046 | TMS | TR | 0 | 5MRMS | TR |
| 54 | NW 6094 | 10MSS | 5MR | 15MS | 10MSS | 5MR |
| 55 | WH 1310 | TR | 20MR | 10MS | TR | 10MR |
| VII. SPECIAL TRIAL (TRITICALE) | | | | | | |

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|---|----------|--------|------|------------|--------|------|
| | | Indore | Pune | Powerkheda | Indore | Pune |
| 56 | TL 3006 | 5R | 0 | 0 | TMS | 0 |
| 57 | TL 3007 | 10MSS | 0 | 0 | 5MSS | 0 |
| 58 | TL 3008 | 10RMR | 0 | 0 | TR | 0 |
| 59 | TL 3009 | 10MRMS | 0 | 0 | TMR | 0 |
| 60 | TL 3010 | 0 | 0 | 0 | TMR | 0 |
| 60. A | INFECTOR | 100S | 80S | 90S | 100S | 80S |
| VIII. SPECIAL TRIAL (MABB/NIL (KB) ENTRIES/Biofortification trial) | | | | | | |
| 61 | HPBW 01 | 40MRMS | 40S | 20MS | 20S | 10MR |
| 62 | HPBW 02 | 30MRMS | 40MR | 20MS | 10S | 20MR |
| 63 | HPPAU 05 | 5MR | 20MR | TR | 5RMR | 0 |
| 64 | HPPAU 08 | 20MRMS | 40S | 20MS | 5MS | 20MS |
| 65 | HPPAU 10 | 20MSS | 40S | 10MS | 20MRMS | 20MS |
| 66 | PBW 760 | 5RMR | 10MR | 5MR | 10R | 5MR |
| IX. SPECIAL TRIAL (Very Late Sown) | | | | | | |
| 67 | DBW 218 | 10MR | 30S | 20MS | 10R | 5MR |
| 68 | DBW 219 | 5S | 5MR | 10MS | 5MRMS | 10MR |
| 69 | DBW 220 | 5S | 40MR | 15MR | 40MR | TR |
| 70 | HD 3236 | 5R | 20MR | TR | 5MRMS | TR |
| 71 | HI 1621 | 40MRMS | 30MR | 5MS | 20MRMS | 5MR |
| 72 | PBW 756 | 5S | 20MS | 5MR | 5S | 10MR |
| 73 | PBW 757 | 5R | 30MR | TR | 10MR | 20MR |
| 74 | WH 1215 | 10MSS | 20MR | 0 | TR | 5MR |
| 75 | WH 1216 | 5MRMS | 20MR | TR | 5R | 0 |
| X. AVTs for Summer sown (VHA) | | | | | | |
| 76 | HS 580 | 5R | 20MR | TR | 10R | 10MR |
| 77 | HS 590 | 20MSS | 30S | 10MS | 20MSS | 0 |
| 78 | VL 3002 | 0 | 20MR | TR | 10R | 0 |
| 79 | VL 4001 | TR | TR | 0 | 0 | 0 |
| 80 | PBW 621 | 30MR | 40MS | 0 | 5R | 0 |
| 80. A | INFECTOR | 100S | 80S | 80S | 100S | 80S |
| 81 | HPW 393 | - | | | - | |
| 82 | HPW 394 | - | | | - | |