Table 2: Seedling response, $S r$ genes in AVT I and II against the pathotypes of Puccinia graminis tritici (wheat stem/black rust) during 2019-20 at ICAR-IIWBR, RS, Flowerdale, Shimla

|  |  | Pathotypes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Sr <br> genes/resistance |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S. No. | Variety/Line | 11 | 11A | $\begin{aligned} & 15- \\ & 1 \end{aligned}$ | 21 | ${ }_{2}^{21 A-}$ | 24A | $\begin{aligned} & 34- \\ & 1 \end{aligned}$ | 40A | $\begin{aligned} & 40- \\ & 1 \end{aligned}$ | $\begin{aligned} & 40- \\ & 2 \end{aligned}$ | $3^{40-}$ | 42B | 117 | $\begin{aligned} & 117 \mathrm{~A}- \\ & 1 \end{aligned}$ | $\begin{aligned} & 117- \\ & 1 \end{aligned}$ | $\begin{aligned} & 117- \\ & 2 \end{aligned}$ | $\begin{aligned} & 117- \\ & 6 \end{aligned}$ | $\begin{aligned} & 117- \\ & 3 \end{aligned}$ | 122 | 184 | 295 |  |
| 1 | HS 507 (C) | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+5+ |
| 2 | HS 562 (C) | MS | R | R | R | S | R | R | MR | S | S | MS | R | R | R | R | R | R | R | MS | R | R | Sr8a+9b+2+ |
| 3 | HPW 349 (C) | R | R | R | R | S | R | R | MR | MR | R | S | R | R | R | R | R | S | R | MR | R | R | Sr7b+2+ |
| 4 | HS 668 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+ |
| 5 | VL 907 (C) | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+2+ |
| 6 | VL 2036 | MR | R | R | R | R | R | R | R | R | R | MS | R | R | R | R | R | R | R | MR | R | R | Sr30+5+ |
| 7 | HS 681 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+5+ |
| 8 | VL 3022 | MR | R | R | R | R | R | R | R | R | R | MR | R | R | R | R | R | R | R | R | R | R | Sr31+ |
| 9 | HS 680 | R | R | R | R | MR | R | R | R | R | R | R | MR | R | R | R | R | R | R | R | R | R | Sr31+ |
| 10 | VL 3023 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+ |
| 11 | HPW 474 | MS | R | R | R | MS | R | R | R | R | R | S | R | R | R | R | R | R | R | R | R | R | Sr30+5+ |
| 12 | UP 3069 | R | MR | R | R | S | R | R | MR | MR | R | MS | R | R | R | R | R | MR | R | R | R | R | Sr7b+ |
| 13 | HPW 473 | MS | NG | MS | R | S | R | R | S | S | S | S | MR | MR | MR | R | S | S | MS | R | S | MS | Sr7b+ |
| 14 | VL 892 (C) | R | R | R | R | R | R | R | R | R | R | MS | R | R | R | R | R | R | R | R | R | R | Sr30+11+ |
| 15 | VL 3024 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+5+ |
| 16 | HS 490 (C) | S | S | R | R | R | R | R | R | R | R | R | R | R | R | R | R | MS | R | R | R | R | Sr28+9b+ |
| 17 | HS 679 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+5+ |
| 18 | DBW88 (C) | S | R | R | R | R | R | R | R | R | R | MR | R | R | R | R | R | R | R | MS | R | R | Sr11+2+ |
| 19 | DBW187(I) (C) | S | R | R | R | R | R | R | R | R | R | S | MR | R | R | R | R | R | R | R | R | R | Sr5+11+ |
| 20 | HD2967 (C) | R | R | S | R | MR | R | R | R | R | R | S | R | R | R | R | R | S | R | R | R | R | Sr8a+11+2 |
| 21 | WH1105 (C) | R | R | R | R | R | R | R | R | R | R | S | R | R | R | R | R | R | R | R | R | R | Sr11+2+ |
| 22 | DBW222(I) (C) | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+ |
| 23 | HD3086 (C) | S | S | S | R | S | R | R | S | R | R | S | R | R | R | R | R | R | R | S | R | S | Sr7b+2+ |
| 24 | PBW840M | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+5+ |
| 25 | PBW803 | S | R | R | R | R | R | R | R | R | R | S | R | R | R | R | R | R | R | MS | R | R | Sr30+5+ |
| 26 | PBW550 (C) | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+2+ |
| 27 | HD3334 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+5+ |
| 28 | HD3059 (C) | S | R | R | R | R | R | R | R | MS | R | MS | R | R | R | MR | R | R | R | R | R | R | Sr11+2+ |
| 29 | HD3332 | S | S | MR | R | MS | R | R | MS | R | MS | S | R | MR | R | R | R | S | R | R | R | R | Sr13+7b+ |
| 30 | DBW173 (C) | MR | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+ |
| 31 | WH1021 (C) | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+5+2+ |
| 32 | PBW811 | R | MR | MS | R | MR | R | R | R | R | S | MS | R | R | R | R | R | S | R | MR | R | R | Sr9b+11+ |
| 33 | DBW291 | S | R | R | R | R | R | R | S | MR | R | S | R | R | R | R | R | R | R | S | R | S | Sr $5+11+7 b+$ |
| 34 | WH1264 | S | MR | R | R | R | R | R | MR | R | R | MS | R | R | R | R | R | R | R | R | R | R | Sr7b+ |
| 35 | PBW812 | S | R | R | R | R | R | R | R | R | R | MS | R | R | R | R | R | R | R | R | R | R | Sr30+11+ |
| 36 | JKW261 | S | S | MR | R | S | R | R | MS | R | S | S | MR | MR | R | R | R | S | R | R | R | MS | Sr13+7b+ |


| 37 | DBW290 | R | R | S | R | S | R | R | MR | R | S | S | R | R | R | R | R | S | R | R | MS | R | Sr13+9b+ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38 | PBW771(I) (C) | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+ |
| 39 | PBW813 | R | R | R | R | R | R | R | MS | R | R | MR | R | R | R | R | R | R | R | R | R | R | Sr8a+11+ |
| 40 | HD3331\#WB | R | R | S | R | MS | R | R | MR | R | R | S | S | R | R | R | R | R | R | R | MS | R | Srl3+7b+ |
| 41 | HD3298* | R | R | R | R | R | R | R | R | R | R | S | R | R | R | R | R | R | R | R | R | R | Sr30+ |
| 42 | WH1124 (C) | S | S | S | R | S | R | R | R | MR | S | S | R | R | R | R | R | S | R | S | R | MR | Sr7b+2+ |
| 43 | UP3033 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+5+ |
| 44 | HUW838\#WB | R | R | R | R | R | R | R | R | R | R | MS | R | R | R | R | R | R | R | R | R | R | Sr5+8a+11+ |
| 45 | HD3043 (C) | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | MR | Sr31+2+ |
| 46 | PBW644 (C) | MR | R | R | R | R | R | R | MS | R | R | S | R | R | R | R | R | R | R | MR | R | MR | Sr11+2+ |
| 47 | DBW296 | R | R | S | R | MS | R | R | MR | R | R | S | MR | R | MR | S | MS | MS | R | MR | R | R | Sr13+7b+ |
| 48 | HI1628(I) (C) | R | R | R | R | MS | R | R | R | R | R | MR | R | R | R | R | R | R | R | R | R | R | Sr2+R |
| 49 | WH1080 (C) | R | R | MS | R | MR | R | R | MS | R | R | S | R | R | R | R | R | R | R | R | R | R | Sr9e+2+ |
| 50 | JAUW672 | S | S | MR | R | R | R | R | R | R | R | R | R | R | R | R | R | MR | MR | R | R | R | Sr9b+13 |
| 51 | WH1142 (C) | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+2+ |
| 52 | NIAW3170(I) (C) | R | R | S | R | MR | R | R | MR | R | R | MS | R | R | R | R | R | R | R | R | R | R | Sr8a+2+ |
| 53 | PBW804 | R | R | MS | R | S | R | R | MR | R | R | S | R | MR | MR | R | MR | MS | R | R | R | R | Sr13+7b+ |
| 54 | DBW187 (C) | S | R | R | R | R | R | R | R | R | R | MS | R | MR | R | R | R | R | R | R | R | R | Sr5+11+ |
| 55 | K1006 (C) | R | R | R | R | R | R | R | MR | R | R | R | R | R | R | MR | R | R | R | R | R | R | Sr8a+9b+11+ |
| 56 | DBW39 (C) | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+2+ |
| 57 | HD3249(I) (C) | S | R | R | R | R | R | R | R | R | R | S | MR | MR | R | R | R | R | MR | MR | R | R | Sr11+2+ |
| 58 | HD2733 (C) | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+2+ |
| 59 | HD3171 (C) | MS | R | R | R | R | MR | R | R | R | R | MS | R | R | R | R | R | R | R | R | R | R | Sr11+7b+2+ |
| 60 | HD2888 (C) | S | R | R | R | R | R | R | R | MR | R | S | R | R | R | R | R | MR | R | R | R | R | -* |
| 61 | HD3293* | S | R | R | R | S | R | R | R | R | R | MS | R | R | R | R | R | MR | R | R | R | R | Sr13+ |
| 62 | K1317 (C) | R | R | R | R | R | R | R | R | R | R | MR | R | R | R | R | R | R | R | R | R | R | Sr31+2+ |
| 63 | HI1612 (C) | S | MR | MS | R | S | MR | R | MR | R | S | S | R | MS | MS | MS | R | MS | MR | MR | R | MR | Sr7b+2+ |
| 64 | DBW252(I) (C) | MR | R | R | R | R | R | R | R | R | R | S | R | R | R | R | R | R | R | R | R | R | Sr8a+5+11+2+ |
| 65 | WHD964(d) | R | R | S | R | S | R | R | R | S | S | S | R | R | S | S | S | S | S | R | S | R | Sr7b+ |
| 66 | DDW48(d)Q* | R | R | R | R | R | R | R | MR | R | R | R | S | MR | S | S | S | S | S | MS | R | MS | Sr7b+2+ |
| 67 | MACS6222 (C) | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr24+R |
| 68 | $\begin{aligned} & \text { MACS3949(d) } \\ & \text { (C) } \end{aligned}$ | R | R | MR | R | R | R | R | S | S | R | MR | R | R | S | S | MS | S | S | R | MR | R | Sr7b+2+ |
| 69 | HI8818(d) | R | R | R | R | R | MR | R | R | R | R | R | R | R | S | MR | R | S | R | R | MS | R | Sr11+7b+ |
| 70 | UAS428(d) (C) | R | R | R | R | R | S | R | S | MS | R | MR | R | R | S | S | S | S | MS | R | S | R | Sr7b+ |
| 71 | DDW49(d)Q* | R | R | S | R | MS | MS | R | S | S | S | S | R | R | S | S | S | S | S | R | S | R | Sr7b+2+ |
| 72 | GW322 (C) | S | R | R | R | R | MR | R | S | R | R | MR | R | R | R | S | R | R | S | MR | R | MS | Sr11+2+ |
| 73 | GW519 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr24+ |
| 74 | HI1646 | S | R | R | R | R | R | R | MS | MR | R | MR | R | R | R | R | R | R | R | R | R | R | Sr5 +8a+11+ |
| 75 | HD3090 (C) | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+2+ |
| 76 | RAJ4083 (C) | R | R | R | R | R | R | R | MS | MR | R | S | R | R | R | R | R | R | R | R | R | R | Sr11+ |
| 77 | UAS3008 | S | R | R | R | R | R | R | MR | R | R | MS | R | R | R | R | R | R | R | R | R | R | Sr5+11+ |
| 78 | MACS6749 | R | R | R | R | R | R | R | R | MR | R | R | R | R | R | R | R | R | R | R | R | R | Sr24+ |
| 79 | HD2932 (C) | R | R | R | R | R | R | R | MR | R | R | MS | R | R | R | R | R | R | R | R | R | R | Sr11+ |


| 80 | HI1641 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 81 | HI1642 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R |
| 82 | HI1633* | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+ |
| 83 | MACS6752 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R |
| 84 | $\begin{aligned} & \text { NIDW } \\ & 1149(\mathrm{~d})^{*} \end{aligned}$ | R | R | R | R | R | R | R | MR | S | R | MR | S | R | MS | MS | R | MS | R | MR | R | MS | Sr11+2+ |
| 85 | UAS446(d) (C) | R | R | R | R | R | MR | R | MS | S | R | R | R | R | MS | MS | S | S | MS | R | MR | R | Sr11+2+ |
| 86 | HI 1605 (C) | MS | R | R | R | MR | R | R | S | R | R | S | R | R | R | R | MS | R | R | R | R | R | Sr11+ |
| 87 | MACS 4087(d) | R | R | R | R | R | R | R | MR | S | R | R | MR | S | MR | MS | R | MS | R | MS | MS | S | Sr11+7b+ |
| 88 | MP 1358 | S | R | R | R | R | R | R | R | R | R | MS | R | R | R | R | R | R | R | R | MR | S | Sr11+ |
| 89 | $\begin{aligned} & \text { AKDW 2997- } \\ & \text { 16(d) (C) } \end{aligned}$ | S | S | MR | MR | MR | R | R | S | S | S | S | S | MR | S | S | R | S | MR | MS | S | MS | Sr7b+2+ |
| 90 | $\begin{aligned} & \text { HI8805(d)(I) } \\ & (\mathrm{C}) \end{aligned}$ | R | R | R | R | R | MS | R | R | S | R | R | R | R | S | R | R | S | R | R | MR | R | Sr13+11+2+ |
| 91 | UAS 472(d) | R | R | R | R | R | MR | R | R | S | R | MR | S | R | S | S | MR | S | MR | R | S | R | Sr11+2+ |
| 92 | MPO 1357(d) ${ }^{\text {Q }}$ | R | R | R | R | R | MS | R | MS | MS | R | R | R | R | R | S | S | MS | R | R | MR | R | Sr11+7b+ |
| 93 | $\begin{aligned} & \text { NIAW3170(I) } \\ & \text { (C) } \end{aligned}$ | R | R | R | R | MR | R | R | R | R | R | MR | R | R | R | R | R | R | R | R | R | R | Sr8a+2+ |
| 94 | MACS5055 | R | S | R | R | R | MR | R | MR | S | R | R | S | MR | R | R | S | S | R | R | R | R | Sr13+7b+ |
| 95 | $\begin{aligned} & \text { MACS6222 } \\ & \text { (aest.) (C) } \\ & \hline \end{aligned}$ | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr24+ R |
| 96 | DDK1029 (C) | R | S | R | R | R | MR | R | R | MS | R | R | MR | MS | R | MR | MR | S | R | MR | MS | R | Sr11+2+ |
| 97 | MACS5054 | R | S | R | R | R | MS | R | R | R | R | R | MR | S | MR | MS | MS | S | MR | MR | MS | MS | Sr11+7b+ |
| 98 | DDK1058 | R | MS | R | R | R | MR | R | R | R | R | R | R | MS | MR | MR | R | S | R | R | MR | R | Sr11+7b+ |
| 99 | HW1098 (C) | MR | R | R | R | R | R | R | R | R | R | R | R | S | MS | MR | MR | S | R | R | MS | MR | Sr11+2+ |
| 100 | DDK1059 | R | S | R | R | R | S | R | R | MS | R | R | S | S | MS | R | R | S | R | R | MR | MS | Sr7b+ |
| 101 | DBW327 | MS | S | S | R | MR | R | R | R | R | R | S | R | R | R | R | R | MR | R | R | R | R | Sr13+5+ |
| 102 | HD3086 (C) | S | S | S | R | S | R | R | S | R | R | S | R | R | R | R | R | R | R | S | R | S | Sr7b+2+ |
| 103 | DBW332 | MR | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R |  | R | R | R | R |
| 104 | DBW303* | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R |
| 105 | HD2967 (C) | MR | R | MR | R | MR | R | R | R | R | R | S | R | R | R | R | R | S | R | R | R | R | Sr8a+11+2+ |
| 106 | DBW187* | S | R | R | R | R | R | R | R | R | R | MS | R | R | R | R | R | R | R | R | R | S | Sr5+11+ |
| 107 | DBW329 | MS | R | R | R | R | R | R | R | R | R | S | R | R | MS | R | R | R | R | R | R | R | Sr9b+11+ |
| 108 | WH1252 | R | R | R | R | R | R | R | R | R | R | S | R | MS | R | MR | R | S | R | R | R | R | Sr9e+7b+ |
| 109 | HD3378 | S | R | R | MR | R | R | MS | MR | R | R | S | R | MR | R | R | R | MS | R | MR | MR | R | Sr7b+11+ |
| 110 | WH1270* | R | R | R | R | R | R | R | R | R | S | S | R | R | R | R | R | S | R | R | R | MR | Sr13+ |
| 111 | DBW333 | MR | R | R | R | R | R | R | R | R | R | S | R | S | R | R | R | R | R | R | R | R | Sr28+11+ |
| 112 | DBW330 | MR | R | R | R | R | R | R | MR | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr28+11+ |
| 113 | DBW328 | MS | R | R | R | R | R | R | R | R | R | S | R | R | R | R | R | R | R | R | R | R | Sr5+11+ |
| 114 | DBW331 | R | R | S | R | R | R | R | R | R | R | S | R | R | R | R | R | S | R | R | R | R | Sr9e+ |
| 115 | TAW155 | MR | R | R | R | R | R | R | R | R | R | S | R | R | R | R | R | R | R | R | R | R | Sr30+5+ |
| 116 | HI1636 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr24+ |
| 117 | MP1361 | R | R | R | R | R | R | R | R | R | R | S | R | R | R | R | R | R | R | R | R | R | Sr28+ |
| 118 | MACS6747 | R | R | R | R | R | R | R | R | MR | R | R | R | R | R | R | R | R | R | R | R | R | Sr24+ |
| 119 | HD3377 ${ }^{\text {B }}$ | S | R | R | R | MR | R | R | S | R | MS | S | R | R | R | R | R | S | R | S | R | MR | Sr7b+ |


| 120 | HI1637 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr24+ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 121 | RAJ4541 ${ }^{\text {B }}$ | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr24+ |
| 122 | GW513 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr24+ |
| 123 | GW322 | S | R | R | R | R | R | R | R | R | R | S | R | R | R | MR | R | R | R | MS | R | R | Sr11+2+ |
| 124 | HI1544 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr24+2+R |
| 125 | HI1634 ${ }^{\text {Q }}$ | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr31+ |
| 126 | HD2932 | R | R | R | R | R | R | R | S | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr11+ |
| 127 | MP3336 | S | R | R | R | R | R | R | R | R | S | MR | R | MR | R | S | R | R | MR | MR | R | MS | Sr11+2+ |
| 128 | HD2864 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr24+ |
| 129 | CG1029* | R | R | R | R | R | R | R | R | R | R | R | MR | R | R | R | R | R | R | R | R | R | Sr24+ |
| 130 | MPO1357(d) | R | R | R | R | R | MR | R | R | R | R | MR | MR | R | R | MS | MS | MS | MR | R | R | R | Sr11+7b+ |
| 131 | HI8627(d) | R | R | R | R | R | MS | R | R | MR | R | MR | R | R | MS | MS | S | MR | MR | R | MR | R | Sr9e+2+ |
| 132 | UAS466(d)(I) | R | R | S | R | R | MS | R | MS | R | R | MR | MR | R | S | S | S | S | S | R | R | R | Sr11+2+ |
| 133 | UAS472(d) | R | R | R | R | R | S | R | MR | R | R | MR | MR | R | S | S | S | S | S | R | MS | R | Sr11+2+ |
| 134 | DBW110 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R |
| 135 | MP3288 | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | Sr24+2+R |
| 136 | HI 8823(d) | R | R | R | R | R | MR | R | R | R | R | MR | R | R | S | MR | S | S | MR | R | S | R | Sr11+ |
| 137 | DDW47(d)(I) | R | R | MS | R | R | MS | R | R | S | R | MR | R | R | S | S | MR | S | S | R | R | R | Sr11+7b+2+ |

