

Table 1. Stripe rust responses of wheat varieties/breeding lines of the WSU Winter and Spring Wheat Variety Trials in 2024

| Variety or<br>breeding line     | Stripe rust response <sup>a</sup> |        |                   |
|---------------------------------|-----------------------------------|--------|-------------------|
|                                 | Category                          | Rating | HTAP resistance   |
| <b><i>CLOAX Winter</i></b>      |                                   |        |                   |
| Appleby CL+                     | R                                 | 3      | Moderate          |
| Curiosity CL+                   | MS                                | 6      | Low               |
| LCS Dagger AX                   | S                                 | 9      | Low               |
| LCS Hydra AX                    | MR                                | 4      | High              |
| LCS Kraken AX                   | MR                                | 5      | Low               |
| LCS Reaper AX                   | R                                 | 3      | High              |
| LCS Scorpion AX                 | R                                 | 1      | High              |
| LWWA22-D33 (AX)                 | R                                 | 1      | Moderate          |
| LWWA22-H22 (AX)                 | S                                 | 8      | Moderate          |
| LWWC21-0119 (CL+)               | R                                 | 1      | High              |
| LWWC21-0317 (CL+)               | R                                 | 1      | Moderate          |
| LWWC21-0331 (CL+)               | MR                                | 5      | Moderate          |
| LWWC21-0494 (CL+)               | R                                 | 1      | High              |
| LWWC21-5070 (CL+)               | R                                 | 1      | Moderate          |
| OR2190025 CL+                   | R                                 | 1      | High              |
| Piranha CL+                     | MR                                | 5      | Moderate          |
| Resilience CL+                  | R                                 | 1      | High              |
| Sockeye CL+                     | R                                 | 1      | Moderate          |
| Stingray CL+                    | R                                 | 1      | Moderate          |
| UIL 17-7706 (CL+)               | R                                 | 1      | High              |
| VI Presto CL+                   | R                                 | 1      | High              |
| VI Voodoo CL+                   | MS                                | 6      | Moderate          |
| WA8345AX                        | MS                                | 6      | Moderate          |
| WA8346AX                        | MR                                | 4      | Moderate          |
| WA8420AX                        | MR                                | 4      | Moderate          |
| WA8421 CL+                      | R                                 | 1      | High              |
| WA8427 CL+                      | R                                 | 1      | High              |
| <b><i>Hard Red Winter</i></b>   |                                   |        |                   |
| Allegiant 3412                  | R                                 | 2      | Moderate          |
| Canvas                          | MR                                | 4      | Moderate          |
| Gemini                          | MR                                | 4      | Low               |
| GSH22-3                         | MR                                | 4      | Low               |
| GSHR5                           | MR                                | 5      | Low               |
| HSG 108                         | MR                                | 4      | Moderate          |
| HSG 124                         | R                                 | 1      | Moderate          |
| Kairos                          | MR                                | 4      | Low               |
| Keldin                          | MS                                | 6      | Moderate          |
| Kivari AX                       | S                                 | 9      | Low               |
| LCS Blackbird                   | MR                                | 5      | Low               |
| LCS Eclipse AX                  | MR                                | 4      | Low               |
| LCS Helix AX                    | MR                                | 5      | Moderate          |
| LCS Jet                         | MS                                | 7      | Low               |
| LCS Missile                     | R                                 | 2      | Low               |
| LWH20-0490                      | MR                                | 4      | Low               |
| LWH20-4802                      | R                                 | 2      | Moderate          |
| LWH21-0760                      | R                                 | 1      | Low               |
| LWH21-5281                      | R                                 | 1      | High              |
| OR2190064R                      | R                                 | 1      | Moderate          |
| OR2190160R                      | R                                 | 1      | High              |
| OR2190165R                      | R                                 | 2      | Moderate          |
| Scorpio                         | MS                                | 6      | Low               |
| Sequoia                         | MR                                | 4      | Low               |
| WA8368                          | MS                                | 6      | Low               |
| WA8399                          | R                                 | 2      | Moderate          |
| WA8401                          | R                                 | 2      | Moderate          |
| WA8403                          | R                                 | 1      | High              |
| WA8422                          | R                                 | 2      | Moderate          |
| WA8423                          | R                                 | 1      | High              |
| WA8424                          | R                                 | 1      | High              |
| WA8425                          | MR                                | 4      | high              |
| WB4303                          | S                                 | 9      | Low               |
| WB4311                          | R                                 | 2      | Moderate          |
| WB4394                          | S                                 | 8      | Low               |
| WB4510CLP                       | R                                 | 1      | High              |
|                                 |                                   |        |                   |
| Variety or<br>breeding line     | Stripe rust response <sup>a</sup> |        |                   |
|                                 | Category                          | Rating | HTAP resistance   |
| Whistler                        | S                                 | 9      | Low               |
| XF4303                          | S                                 | 8      | Low               |
| <b><i>Soft White Winter</i></b> |                                   |        |                   |
| AP Exceed                       | R                                 | 1      | High              |
| AP Illiad                       | R                                 | 1      | High              |
| AP Olympia                      | R                                 | 1      | Moderate          |
| ARS Crescent                    | MS                                | 6      | Moderate          |
| ARS Selbu 2.0                   | R                                 | 1      | High              |
| ARS14DH1011-19CBW               | R                                 | 1      | High              |
| ARS15X1496-7-2CBW               | R                                 | 1      | High              |
| ARS16X0127-3-4CAW               | R                                 | 1      | Moderate          |
| ARS16X0161-10-4CAW              | R                                 | 1      | Moderate          |
| ARS16X022-2-3CBW                | R                                 | 1      | High              |
| Cameo                           | R                                 | 1      | Moderate          |
| Castella                        | R                                 | 1      | Moderate          |
| CPX66251                        | S                                 | 9      | Low               |
| Devote                          | MS                                | 7      | Moderate          |
| GS Bounty                       | MR                                | 5      | Low               |
| GSW22-21                        | MS                                | 7      | Low               |
| GSW22-40                        | MR                                | 4      | Low               |
| Inspire                         | R                                 | 1      | Moderate          |
| Jameson                         | R                                 | 1      | High              |
| LCS Artdeco                     | R                                 | 3      | Moderate          |
| LCS Blackjack                   | R                                 | 2      | High              |
| LCS Hulk                        | R                                 | 2      | High              |
| LCS Jefe                        | R                                 | 1      | High              |
| LCS Kamiak                      | R                                 | 1      | High              |
| LCS Shine                       | R                                 | 1      | High              |
| LWW19-5862                      | R                                 | 1      | Moderate          |
| LWW20-2383                      | R                                 | 1      | Moderate          |
| LWW20-2867                      | R                                 | 1      | Moderate          |
| LWW21-1023                      | MR                                | 4      | Moderate          |
| LWW21-1436                      | R                                 | 1      | Moderate          |
| LWW21-1554                      | R                                 | 3      | Moderate          |
| LWW21-1834                      | R                                 | 1      | High              |
| LWW21-5381                      | R                                 | 1      | High              |
| Nimbus                          | R                                 | 1      | High              |
| Norwest Duet                    | R                                 | 1      | High              |
| Norwest Tandem                  | R                                 | 1      | High              |
| OR2170559                       | R                                 | 1      | High              |
| OR5180071                       | R                                 | 2      | High              |
| OR5180072                       | R                                 | 1      | High              |
| Otto                            | MR                                | 4      | Moderate          |
| Pritchett                       | R                                 | 1      | Moderate          |
| Purl                            | MR                                | 5      | Moderate          |
| Rollie                          | R                                 | 1      | High              |
| SY Assure                       | R                                 | 1      | High              |
| SY Dayton                       | R                                 | 1      | Moderate          |
| TMC M-Pire                      | MS                                | 6      | Moderate          |
| TMC M-Press                     | R                                 | 1      | Moderate          |
| UIL 13-046145A                  | R                                 | 1      | Low               |
| UIL 14-211120A                  | R                                 | 1      | Moderate          |
| UIL 15-028024A                  | MR                                | 5      | Moderate          |
| UIL 16-007057A                  | R                                 | 2      | High              |
| UIL 17-550099A                  | R                                 | 1      | High              |
| UIL 17-995133B                  | R                                 | 1      | Moderate          |
| WA8364                          | R                                 | 3      | Moderate          |
| WA8394                          | R                                 | 2      | High              |
| WA8397                          | MR                                | 4      | Moderate          |
| WA8404                          | R                                 | 1      | Moderate          |
| WA8405                          | R                                 | 1      | Moderate          |
| WA8416                          | MR                                | 4      | Moderate          |
| WA8417                          | MR                                | 4      | High              |
| WA8418                          | R                                 | 1      | High              |
| WA8419                          | MR                                | 5      | Moderate          |
|                                 |                                   |        |                   |
| Variety or<br>breeding line     | Stripe rust response <sup>a</sup> |        |                   |
|                                 | Category                          | Rating | HTAP resistance   |
| WA8426                          | MR                                | 5      | High              |
| WB1545                          | R                                 | 1      | Moderate          |
| WB1621                          | R                                 | 2      | Low               |
| WB1720                          | MR                                | 4      | High              |
| WB1922                          | R                                 | 1      | High              |
| Windust                         | R                                 | 1      | Moderate          |
| <b><i>Hard Red Spring</i></b>   |                                   |        |                   |
| Allegiant 6633                  | S                                 | 9      | No                |
| Allegiant 6765                  | R                                 | 1      | Unknown           |
| Alum                            | R                                 | 2      | Moderate          |
| AP Venom                        | R                                 | 1      | Moderate          |
| BZ920-136                       | R                                 | 1      | Unknown           |
| BZTR20-115                      | MS                                | 7      | Low               |
| BZTR20-173                      | R                                 | 2      | Moderate          |
| Chet                            | MR                                | 4      | Low               |
| CP3099A                         | R                                 | 2      | High              |
| CP3322                          | R                                 | 3      | Moderate          |
| CP3915                          | MS                                | 6      | Low               |
| Dayn                            | R                                 | 1      | High              |
| Hale                            | R                                 | 1      | Unknown           |
| IDO2105S                        | MR                                | 4      | Low               |
| IDO2202CL2                      | R                                 | 2      | High              |
| Jefferson                       | MR                                | 4      | Moderate          |
| Kelse                           | MS                                | 6      | Low               |
| LCS Hammer AX                   | MR                                | 5      | Moderate          |
| MT Carlson                      | S                                 | 8      | Low               |
| MT Dutton                       | S                                 | 9      | Low               |
| MT2030                          | S                                 | 9      | Low               |
| Net CL+                         | MR                                | 4      | Moderate          |
| ORS226518                       | MR                                | 4      | Moderate          |
| ORS227913                       | MR                                | 5      | Moderate          |
| WA8393                          | R                                 | 1      | High              |
| WA8406                          | MR                                | 3      | High              |
| WA8407                          | MR                                | 4      | Moderate          |
| WA8431                          | MR                                | 4      | Low               |
| WA8436 CL+                      | MR                                | 3      | Moderate          |
| WA8437 CL+                      | MR                                | 4      | Moderate          |
| WB9623                          | R                                 | 1      | High              |
| WB9636                          | R                                 | 1      | High              |
| WB9662                          | R                                 | 1      | Unknown           |
| WB9668                          | MR                                | 4      | High              |
| <b><i>Soft White Spring</i></b> |                                   |        |                   |
| Butch CL+                       | R                                 | 1      | Unknown           |
| BZTW20-303                      | MR                                | 3      | Moderate          |
| BZTW20-343                      | MR                                | 4      | Moderate          |
| BZTW20-345                      | MR                                | 5      | Low               |
| Hedge CL+                       | R                                 | 1      | High              |
| IDO1902S                        | R                                 | 2      | Low               |
| Louise                          | MR                                | 5      | Moderate          |
| Melba                           | R                                 | 1      | High              |
| Roger                           | R                                 | 2      | High              |
| Ryan                            | MR                                | 4      | High              |
| Seahawk                         | R                                 | 1      | High <sup>9</sup> |
| Tekoa                           | MR                                | 4      | Moderate          |
| TMC Lochaven                    | MR                                | 4      | Unknown           |
| UI Cookie                       | R                                 | 2      | High              |
| WA8327                          | MR                                | 4      | High              |
| WA8351                          | MR                                | 4      | Moderate          |
| WA8380 CL+                      | MR                                | 4      | High              |
| WA8384                          | R                                 | 1      | High              |
| WA8408                          | MR                                | 4      | High              |
| WA8433                          | MR                                | 3      | High              |
| WA8434                          | MR                                | 4      | Moderate          |
| WA8435 CL+                      | R                                 | 1      | High              |
| WB6211CLP                       | MR                                | 4      | Moderate          |

<sup>a</sup>For the category of stripe rust response, R = resistant, MR = moderately resistant, MS = moderately susceptible, and S = susceptible. For the stripe rust rating, 1 = most resistant and 9 = most susceptible. HTAP resistance determined based on the greenhouse tests, "Unknown" is denoted for the variety/ line that was resistant to all tested races of the stripe rust pathogen, and as such HTAP resistance cannot be determined

| Variety or<br>breeding line | Stripe rust response <sup>a</sup> |        |                 | Variety or<br>breeding line | Stripe rust response <sup>a</sup> |        |                 | Variety or<br>breeding line | Stripe rust response <sup>a</sup> |        |                 |
|-----------------------------|-----------------------------------|--------|-----------------|-----------------------------|-----------------------------------|--------|-----------------|-----------------------------|-----------------------------------|--------|-----------------|
|                             | Category                          | Rating | HTAP resistance |                             | Category                          | Rating | HTAP resistance |                             | Category                          | Rating | HTAP resistance |