

2025 First Stripe Rust Forecast for the Eastern Pacific Northwest

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Based on the weather data of the November and December 2025, stripe rust in the 2024 wheat growing season is predicted to be in the range of severe epidemic level (40-60% yield loss on susceptible varieties). Using a set of forecast models based on this winter weather data so far (November and December 2024), highly susceptible winter wheat varieties are predicted to have potential yield losses in the range of 27 to 57% with an average of **41%** caused by stripe rust in 2025. The predicted severe epidemic level is attributed to the relatively warm weather in these two months. Based on the potential epidemic level, commercially grown varieties are predicted to have **0 to 29%** yield losses depending upon the level of resistance or susceptibility of individual varieties. The next forecast will be made in early March based on the entire winter weather data. According to the current forecast, fields grown with moderately susceptible (MS, ratings 6 and 7) or susceptible (S, ratings 8 and 9) winter wheat varieties may need the early fungicide application at the time of herbicide application. Resistant (ratings 1 and 2) and moderately resistant (ratings 3 and 4) spring wheat varieties should be selected to plant, and variety with MS and S ratings (6 – 9) should be avoided. See the tables (**Table 1** and **Table 2**) below for stripe rust ratings of wheat varieties based on the tests in 2024.

Table 1. Stripe rust ratings of winter wheat varieties

Rating	Varieties (Soft white, Hard red , Club , Hard White)
R (1,2)	Allegiant 3412 , aMaze, AP Dynamic, AP Exceed, AP Iliad, AP Octane , AP Olympia, ARS Castella , ARS-Selbu 2.0, Bobtail, Bruehl , Cameo , Cara , Inspire, Jameson, Jasper, LCS Biancor, LCS Blackjack, LCS Drive, LCS Evina , LCS Hulk, LCS Jefe, LCS Kamiak, LCS Missile , LCS Rocket , LCS Scorpion AX, LCS Shark, LCS Shine, LCS Sonic, LCS Yeti, LCS Zoom , Nimbus, Nixon, Norwest 553 , Norwest Duet, Norwest Tandem, OR2x2 CL+, Pritchett , Resilience CL+, Rollie, Rosalyn, Sockeye CL+, Stingray CL+, SY Assure, SY Banks, SY Clearstone CL2 , SY Dayton, SY Ovation, SY Raptor, TMC M-Press, VI Bulldog, VI Frost, VI Presto CL+, WB1529, WB1545, WB1604, WB1621, WB1922, WB4311 , WB4510CLP , WB4623CLP , Windust
MR (3,4)	Appleby CL+ , AP Redeye , AP Venom , ARS Selbu, Canvas , Coda , Gemini , HSG 108 , Kairos , LCS Artdeco, LCS Eclipse AX , LCS Ghost, LCS Hydra AX, LCS Reaper AX, LCS Helix AX , Mela CL+, Millie, Otto, Sequoia , UI Bronze Jade , UI-WSU Huffman, WB1376CLP, WB1720
M (5)	AP503 CL2 , Guardian , GS Bounty, LCS Aymeric , LCS Blackbird , LCS Helix AX , LCS Kraken AX, Mary, Piranha CL+, Puma, Purl, SY107, SY Command, SY Touchstone , UI Castle CL+, UI Sparrow, WB1783
MS (6,7)	AP700 CL, AP Legacy, ARS Crescent , Canvas , CPX66251, Curiosity CL+, Devote, Irv, Keldin , LCS Fusion AX , Milestone , Scorpio , TMC M-Pire, UI Palouse CL+, WB1532
S (8,9)	Battle AX , Brawl CL Plus , CP7010 , CP7909 , Kivari AX , LCS Dagger AX, Snowmass 2.0, UI Magic CL+, VI Voodoo CL+, WB4303 , WB4394 , WB Rimrock , Whistler , XF4303

Table 2. Stripe rust ratings of spring wheat varieties

Rating	Varieties (Soft white, Hard red , Club , Hard White)
R (1,2)	Allegiant 6765 , Alum, AP Octane , AP Renegade , AP Venom , Butch CL+, CP3055 , CP3066 , CP3099A , CP3119A , CPX39120 , Dayn, Expresso , Glee , Hale , Hedge CL+ , JD , Melba , Roger , Seahawk, SY Basalt , SY Gunsight , SY Teton, TMC2021, UI Cookie, WB6121, WB7202CLP , WB9636 , WB9662 , WQL008, WQL195, YSC-605
MR (3,4)	Cabernet , Chet , CP3322 , Diva , LCS Iron , Net CL+ , Ryan, SY Coho , SY Selway , SY Steelhead , Tekoa, TMC Lochaven, UI Platinum, UI Stone, SY Saltese, WB6211CLP, WB9668 , YSC-603
M (5)	AP Coachman, Buck Pronto , Bullseye , Jefferson , LCS Hammer AX , Louise, WB6341, Whit
MS (6,7)	AP Mondovi CL2, CP3915 , Hollis , Jefferson HF , LCS Luna , Kelse , WB9303
S (8,9)	Allegiant 6633 , Babe , CP3530 , SY605 CL2 , MT Carlson , MT Dutton , WB1035 CL+