

19-05. 2018-19 Wheat @ Howe, TX (Norman Farms, Cooperator)
Fungicide Profitability Study

Table 1

MEAN Comparison Summary

| VARIETIES ¹ /TREATMENT ² | Leaf Rust Infection on Flag Leaf ³ (%) May 15, 2019 | Yield ³ (bu/ac) | Yield Bushel/Ac Increase over Unsprayed | Test Weight ³ (lb/bu) | Test Weight lb/bu Increase over Unsprayed |
|--|---|----------------------------|---|----------------------------------|---|
| AGS 2038 - <i>Sprayed</i> | 0.0 a | 74.2 bc | 9.6 | 58.8 abc | 0.5 |
| AGS 2055 - <i>Sprayed</i> | 0.0 a | 77.1 abc | 0.1 | 56.6 e-i | 0.5 |
| Dyna-Gro 9522 - <i>Sprayed</i> | 0.0 a | 74.6 bc | 17.3 | 56.5 f-j | 2.7 |
| Dyna-Gro TV 8861 - <i>Sprayed</i> | 0.0 a | 72.7 bcd | 18.4 | 56.6 e-i | 2.6 |
| Pioneer 25R40 - <i>Sprayed</i> | 0.0 a | 81.0 a | 18.9 | 57.0 efg | 1.7 |
| Syngenta Coker 9553 - <i>Sprayed</i> | 0.0 a | 71.1 cde | 5.7 | 59.4 ab | -0.1 |
| TX-EL2 - <i>Sprayed</i> | 0.0 a | 75.6 abc | 14.9 | 57.3 def | 2.3 |
| USG 3201 - <i>Sprayed</i> | 0.0 a | 71.1 cde | 16.7 | 58.5 abc | 3.1 |
| USG 3458 - <i>Sprayed</i> | 0.0 a | 67.9 def | 18.4 | 55.2 jkl | 2.2 |
| USG 3536 - <i>Sprayed</i> | 0.0 a | 72.1 cd | 12.7 | 57.2 ef | 0.8 |
| USG 3895 - <i>Sprayed</i> | 0.0 a | 79.0 ab | 12.1 | 55.7 g-l | 1.2 |
| Monsanto WB-Cedar (<i>HRWW</i>) - <i>Sprayed</i> | --- ¹ | 57.1 ij | 6.8 | 56.8 e-h | 1.2 |
| Syngenta Monument (<i>HRWW</i>) - <i>Sprayed</i> | 0.0 a | 61.7 ghi | 6.6 | 57.9 cde | 1.0 |
| TAM 114 (<i>HRWW</i>) - <i>Sprayed</i> | 0.0 a | 60.5 hij | 11.6 | 58.6 abc | 1.5 |
| AGS 2038 - <i>Unsprayed</i> | 0.0 a | 64.6 fgh | | 58.3 bcd | |
| AGS 2055 - <i>Unsprayed</i> | 0.0 a | 77.0 abc | | 56.1 f-k | |
| Dyna-Gro 9522 - <i>Unsprayed</i> | 67.5 e | 57.3 ij | | 53.8 no | |
| Dyna-Gro TV 8861 - <i>Unsprayed</i> | 66.3 e | 54.3 jkl | | 54.0 mno | |
| Pioneer 25R40 - <i>Unsprayed</i> | 40.0 c | 62.1 f-i | | 55.3 i-l | |
| Syngenta Coker 9553 - <i>Unsprayed</i> | 28.8 b | 65.4 e-h | | 59.5 a | |
| TX-EL2 - <i>Unsprayed</i> | 42.5 c | 60.7 hij | | 55.0 klm | |
| USG 3201 - <i>Unsprayed</i> | 40.0 c | 54.4 jkl | | 55.4 i-l | |
| USG 3458 - <i>Unsprayed</i> | 52.5 d | 49.5 kl | | 53.0 o | |
| USG 3536 - <i>Unsprayed</i> | 10.0 a | 59.4 hij | | 56.4 f-j | |
| USG 3895 - <i>Unsprayed</i> | 26.3 b | 66.9 d-g | | 54.5 lmn | |
| Monsanto WB-Cedar (<i>HRWW</i>) - <i>Unsprayed</i> | --- ¹ | 50.3 kl | | 55.6 h-l | |
| Syngenta Monument (<i>HRWW</i>) - <i>Unsprayed</i> | 26.3 b | 55.1 jk | | 56.9 e-h | |
| TAM 114 (<i>HRWW</i>) - <i>Unsprayed</i> | 70.0 e | 48.9 l | | 57.1 ef | |
| <i>LSD (P = .05)</i> | 6.00 | 4.21 | | 0.83 | |
| <i>CV (%)</i> | 24.5 | 4.59 | | 1.05 | |
| GRAND MEAN | 17.41 | 65.05 | | 56.53 | |

¹Monsanto WB-Cedar removed from Leaf Rust Infection analysis (no green leaves to rate, combination of bacterial streak & rust)

³Data Assessment Note: Reps 1 & 2 excluded from analysis due to fungicide application error

²TREATMENT: April 29, 2019 applied TebuStar @ 4 fl.oz/A + NIS @ 0.25% v/v

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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 22 | 27 | 25 | 28 | 17 | 23 | 20 | 24 | 26 | 21 | 18 | 15 | 16 | 19 | Milburn Border | 14 | 8 | 7 | 10 | 3 | 13 | 2 | 5 | 6 | 12 | 4 | 9 | 1 | 11 |
| 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | | 615 | 616 | 617 | 618 | 619 | 620 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 |
| 12 | 8 | 4 | 13 | 5 | 11 | 7 | 14 | 1 | 2 | 10 | 3 | 9 | 6 | | 24 | 27 | 17 | 18 | 16 | 21 | 20 | 23 | 15 | 19 | 26 | 22 | 25 | 28 |
| 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 |
| 25 | 22 | 27 | 18 | 26 | 20 | 16 | 21 | 23 | 19 | 24 | 17 | 28 | 15 | | 8 | 5 | 2 | 11 | 9 | 4 | 1 | 14 | 10 | 13 | 3 | 6 | 12 | 7 |
| 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 |
| 6 | 8 | 4 | 10 | 5 | 9 | 7 | 11 | 3 | 14 | 1 | 13 | 12 | 2 | | 17 | 22 | 16 | 28 | 18 | 27 | 19 | 20 | 25 | 23 | 26 | 24 | 21 | 15 |
| 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 |
| 17 | 27 | 22 | 20 | 21 | 15 | 19 | 23 | 25 | 24 | 28 | 18 | 26 | 16 | | 7 | 6 | 11 | 1 | 9 | 3 | 13 | 14 | 2 | 4 | 5 | 12 | 10 | 8 |
| 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 |

BORDERS: Milburn

Seeding Rate: 90 lbs/Ac (75 gms/pkt)

Planted November 17, 2018

Harvested June 21, 2019

VARIETIES - Sprayed

- | | |
|------------------------|------------------------------|
| 1. AGS 2038 | 8. USG 3201 |
| 2. AGS 2055 | 9. USG 3458 |
| 3. Dyna-Gro 9522 | 10. USG 3536 |
| 4. Dyna-Gro TV 8861 | 11. USG 3895 |
| 5. Pioneer 25R40 | 12. Monsanto WB-Cedar (HRWW) |
| 6. Syngenta Coker 9553 | 13. Syngenta Monument (HRWW) |
| 7. TX-EL2 | 14. TAM 114 (HRWW) |

VARIETIES - Unsprayed

- | | |
|-------------------------|------------------------------|
| 15. AGS 2038 | 22. USG 3201 |
| 16. AGS 2055 | 23. USG 3458 |
| 17. Dyna-Gro 9522 | 24. USG 3536 |
| 18. Dyna-Gro TV 8861 | 25. USG 3895 |
| 19. Pioneer 25R40 | 26. Monsanto WB-Cedar (HRWW) |
| 20. Syngenta Coker 9553 | 27. Syngenta Monument (HRWW) |
| 21. TX-EL2 | 28. TAM 114 (HRWW) |

January 28, 2019 applied 50 lbs. N/Ac (32%)

March 28, 2019 applied 68 lbs. N/Ac (32%)

March 21 & 27, 2019 sprayed Alley's

April 29, 2019 applied TebuStar @ 4 fl.oz/A + NIS @ 0.25% v/v @ 10:45 - 11:15 am;

WIND: 10 mph SE, TEMP: 75°F, RH: 69%; No dew, Soil dry; No disease