

2022 WSU Variety Testing Hard Winter Wheat Trial, Horse Heaven

| Variety Name | 2022 | | | | | 2 Year | 3 Year | 5 Year |
|---------------------------|-----------------|---------------------|----------------|------------------|--------------|-------------------|-------------------|-------------------|
| | Yield (Bu/A) | Test WT (Lbs/Bu) | Protein (%) | Plant HT (In) | Head Date | Average (Bu/A) | Average (Bu/A) | Average (Bu/A) |
| <i>Released Varieties</i> | | | | | | | | |
| Scorpio | 79 | 62.1 | 9.9 | 31 | 150 | | | |
| Whistler | 65 | 64.7 | 9.4 | 30 | 148 | | | |
| LCS Jet | 62 | 61.1 | 9.1 | 29 | 150 | | | |
| Keldin (1,050,000) | 62 | 64.3 | 9.7 | 33 | 147 | | | |
| Guardian | 62 | 65.2 | 9.6 | 32 | 148 | | | |
| Battle AX | 60 | 63.2 | 9.1 | 30 | 146 | | | |
| WB4510CLP | 59 | 65.0 | 9.3 | 32 | 148 | | | |
| Keldin (900,000) | 59 | 64.0 | 9.4 | 33 | 148 | | | |
| Keldin (750,000) | 56 | 64.6 | 9.6 | 33 | 149 | | | |
| WB4303 | 56 | 63.5 | 9.4 | 32 | 145 | | | |
| Keldin (350,000) | 55 | 63.9 | 10.4 | 33 | 152 | | | |
| Keldin (500,000) | 53 | 64.5 | 10.1 | 33 | 149 | | | |
| Sequoia | 53 | 62.4 | 9.3 | 40 | 156 | | | |
| LCS Helix AX | 52 | 64.6 | 9.1 | 31 | 146 | | | |
| WB4394 | 51 | 64.1 | 9.6 | 35 | 150 | | | |
| WB4311 | 47 | 64.0 | 10.9 | 29 | 149 | | | |
| <i>Experimental Lines</i> | | | | | | | | |
| LWH19-1103 | 62 | 63.1 | 10.2 | 31 | 151 | | | |
| LWH19-5691 | 61 | 62.7 | 8.9 | 29 | 151 | | | |
| PN13001002-04 | 60 | 62.6 | 9.2 | 34 | 151 | | | |
| LWH19-5663 | 58 | 61.7 | 9.7 | 33 | 154 | | | |
| WA8338 | 57 | 62.0 | 9.6 | 32 | 152 | | | |
| WA8367 | 57 | 63.0 | 9.8 | 30 | 154 | | | |
| WA8318 CL+ | 57 | 62.4 | 8.8 | 35 | 156 | | | |
| LWH19-0192 | 56 | 61.8 | 9.2 | 28 | 152 | | | |
| LWH18-0122 | 55 | 61.7 | 10.1 | 27 | 148 | | | |
| WA8310 | 54 | 63.0 | 9.8 | 32 | 152 | | | |
| YSC-1001 | 52 | 61.5 | 9.9 | 35 | 153 | | | |
| OR2170199R | 52 | 61.6 | 9.3 | 29 | 153 | | | |
| YSC-1002 | 49 | 63.5 | 10.2 | 29 | 145 | | | |
| GHR10 | 43 | 64.1 | 10.8 | 32 | 146 | | | |
| C.V. % | 8 | 0.8 | 4.9 | 4 | 1 | | | |
| LSD (0.05) | 8 | 1.1 | 1.0 | 3 | 2 | | | |
| Average | 57 | 63.2 | 9.7 | 32 | 150 | | | |
| Highest | 79 | 65.2 | 10.9 | 40 | 156 | | | |
| Lowest | 43 | 61.1 | 8.8 | 27 | 145 | | | |

Agronomic Information

| | |
|---|-----------|
| Planting Date: | 9/16/2021 |
| Harvest Date: | 7/25/2022 |
| Seeding Rate (seeds/ft ²): | 12.5 |
| Previous Crop: | Fallow |
| Spring soil test: | |
| N (lb/ac) 4-ft sample | 82 |
| P ₂ O ₅ (lb/ac) 1-ft sample | 100 |
| S (lb/ac) 2-ft sample | 14 |
| pH (top 6 inches) | 6.6 |

Herbicides: Zidua (4oz) was applied on November 10.

Trial Notes:

1. The nursery was located approximately 6 miles southwest of Benton City, Wa.
2. The nursery was fertilized at planting at a rate of 11N, 27P, 7K, 7S, 5 Cu. An additional 51N was applied on November 22.
4. Overall yield was 185% greater and test weight was 3.9 lb/bu more than in 2021.

Cooperator: Chad Smith

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|--------------|--------|----------|---------|----------|------|---------|---------|---------|
| | Yield | Test WT | Protein | Plant HT | Head | Average | Average | Average |
| | (Bu/A) | (Lbs/Bu) | (%) | (In) | Date | (Bu/A) | (Bu/A) | (Bu/A) |