

## 2024 South Dakota Winter Wheat Summary, Three-Year Data

Syngenta Commercial Variety Wheat Performance Test, 2022-2024

| Variety             | 3-Yr Combined<br>(2022-2024) |              | 2-Yr Combined<br>(2023-2024) |              | Combined<br>(2024) |              | Hayes,<br>SD  | ldeal,<br>SD* |
|---------------------|------------------------------|--------------|------------------------------|--------------|--------------------|--------------|---------------|---------------|
| Hard Winter Wheat   | Yield<br>Bu/A                | TWT<br>Lb/Bu | Yield<br>Bu/A                | TWT<br>Lb/Bu | Yield<br>Bu/A      | TWT<br>Lb/Bu | Yield<br>Bu/A | Yield<br>Bu/A |
| AP Sunbird          | 66.7                         | 62.5         | 56.0                         | 62.1         | 58.6               | 62.1         | 65.8          | 51.4          |
| AP18 AX             | 65.0                         | 62.3         | 59.2                         | 62.9         | 72.2               | 62.9         | 69.0          | 75.4          |
| AP24 AX             | 64.8                         | 61.5         | 57.9                         | 62.5         | 67.3               | 61.7         | 68.8          | 65.7          |
| AP Bigfoot          | 62.5                         | 62.7         | 53.8                         | 62.5         | 61.6               | 61.9         | 66.6          | 56.6          |
| AP Clair            | 62.3                         | 62.8         | 50.1                         | 62.3         | 62.6               | 62.9         | 55.8          | 69.4          |
| SY Wolverine        | 61.7                         | 61.4         | 53.2                         | 61.3         | 60.2               | 61.6         | 70.0          | 50.5          |
| AP Prolific         | 61.2                         | 62.5         | 56.7                         | 63.2         | 67.1               | 63.0         | 63.7          | 70.5          |
| SY WOLF             | 59.3                         | 62.3         | 51.8                         | 62.6         | 57.5               | 62.1         | 58.8          | 56.2          |
| SY 517 CL2          | 56.9                         | 63.6         | 50.9                         | 63.3         | 53.3               | 62.8         | 58.3          | 48.3          |
| SY Monument         | 56.8                         | 60.6         | 50.2                         | 60.9         | 55.6               | 59.9         | 59.1          | 52.0          |
| LCS Helix AX        | 65.5                         | 63.6         | 56.5                         | 63.6         | 66.8               | 63.3         | 65.6          | 68.1          |
| Winner              | 64.3                         | 62.7         | 56.9                         | 63.1         | 67.6               | 62.4         | 69.1          | 66.1          |
| SD Andes            | 63.2                         | 62.9         | 58.6                         | 63.5         | 67.7               | 63.8         | 66.3          | 69.1          |
| Draper              | 62.9                         | 61.3         | 57.8                         | 62.3         | 68.1               | 61.6         | 65.2          | 70.9          |
| WB4422              |                              |              | 57.1                         | 62.6         | 62.4               | 61.2         | 66.7          | 58.0          |
| SD Midland          |                              |              | 55.9                         | 63.2         | 64.4               | 63.4         | 63.2          | 65.6          |
| Kivari AX           |                              |              |                              |              | 57.9               | 60.3         | 63.8          | 51.9          |
| Mean General        | 62.3                         | 62.3         | 55.0                         | 62.5         | 61.0               | 61.4         | 62.1          | 59.9          |
| LSD General (5%) EE | 5.9                          | 1.3          | ns                           | 1.3          | 11.6               | 1.8          | 7.3           | 6.4           |
| CV (Effective)      | 8.3                          | 1.9          | 9.0                          | 1.5          | 6.9                | 1.4          | 7.2           | 6.5           |

Boldfaced numbers are within confidence interval at specific locations and combined years of yield data.

\* Not all plots were treated with a foliar fungicide and this likely impacted the yield results for some varieties.

Locations

2022 — Agar, Ideal, and Reliance, SD 2023 — Hayes and Ideal, SD

2024 — Hayes and Ideal, SD



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