

YIELD

Discover the superior performance of Harvest Haven. The following field trials, spanning various durations and locations within the state of Wisconsin, consistently position our brand at the top of the yield charts. As we strive to deliver high-quality products, our commitment to innovation and excellence is validated by the results of these trials.

| <u>Central, Wisconsin</u> <i>Seeded Spring 2019</i> | | | | | |
|---|------|------|------|-------|-------|
| Tons Air-Dry Hay / Acre | | | | | |
| Variety | 2020 | 2021 | 2022 | 2023 | Total |
| 4015 FY | 6.78 | 6.02 | 5.62 | 5.35 | 23.77 |
| 4044 BR | 6.74 | 6.31 | 5.72 | 4.77 | 23.54 |
| AFX 460 | 6.56 | 6.03 | 5.62 | 4.95 | 23.16 |
| 5290 VP | 6.53 | 6.09 | 5.37 | 4.99 | 22.98 |
| Megatron (HarvXtra®) | 6.36 | 5.83 | 5.28 | 4.77 | 22.24 |
| 55Q27 | 6.52 | 5.85 | 5.13 | 4.60 | 22.10 |
| Rebound 6XT | 6.29 | 5.66 | 5.24 | 4.82 | 22.01 |
| HybriForce 3430 | 6.55 | 5.17 | 3.91 | 3.43 | 19.06 |
| Mean | 6.67 | 5.96 | 5.35 | 4.91 | 22.36 |
| LSD (0.05) | NS | 0.42 | 0.63 | 0.85 | |
| CV% | 7.20 | 4.97 | 8.39 | 12.24 | |

| <u>Southern, Wisconsin</u> <i>Seeded Spring 2022</i> | | | |
|--|------|-------|--|
| Tons Air-Dry Hay / Acre | | | |
| Variety | 2023 | Total | |
| 4015 FY | 6.88 | 6.88 | |
| Rebound AA | 6.62 | 6.62 | |
| 4044 BR | 6.57 | 6.57 | |
| Megatron (HarvXtra®) | 6.47 | 6.47 | |
| Hybriforce 4400 | 6.18 | 6.18 | |
| Pioneer 54Q14 | 6.09 | 6.09 | |
| Mean | 6.60 | 6.47 | |
| LSD (0.05) | NS | | |
| CV% | 6.21 | | |

| <u>Central, Wisconsin</u> <i>Seeded Spring 2022</i> | | |
|---|------|-------|
| Tons Air-Dry Hay / Acre | | |
| Variety | 2023 | Total |
| 5290 VP | 6.76 | 6.76 |
| 4015 FY | 6.56 | 6.56 |
| Rebound AA | 6.42 | 6.42 |
| AFX 460 | 6.39 | 6.39 |
| Hybriforce 4400 | 6.31 | 6.31 |
| Megatron (HarvXtra®) | 6.26 | 6.26 |
| Mean | 6.48 | 6.48 |
| LSD (0.05) | NS | |
| CV% | 4.69 | |

| <u>Central, Wisconsin</u> <i>Seeded Spring 2021</i> | | | |
|---|------|------|-------|
| Tons Air-Dry Hay / Acre | | | |
| Variety | 2022 | 2023 | Total |
| 4015 FY | 6.76 | 6.98 | 13.74 |
| 4044 BR | 6.83 | 6.86 | 13.69 |
| AFX 460 | 6.64 | 6.92 | 13.56 |
| Rebound AA | 6.80 | 6.54 | 13.34 |
| Megatron (HarvXtra®) | 6.23 | 6.55 | 12.78 |
| HybriForce 4400 | 6.17 | 6.55 | 12.72 |
| 54Q14 | 5.94 | 6.09 | 12.03 |
| Mean | 6.57 | 6.76 | 13.12 |
| LSD (0.05) | 0.32 | 0.58 | |
| CV% | 3.48 | 5.15 | |

| <u>Central, Wisconsin</u> <i>Seeded Spring 2021</i> | | | |
|---|------|------|-------|
| Tons Air-Dry Hay / Acre | | | |
| Variety | 2022 | 2023 | Total |
| 4015 FY | 6.43 | 7.15 | 13.58 |
| Rebound AA | 6.55 | 6.74 | 13.29 |
| AFX 460 | 6.29 | 6.77 | 13.06 |
| HybriForce 4400 | 6.55 | 6.43 | 12.98 |
| Legendariy AA | 6.26 | 6.40 | 12.66 |
| Megatron (HarvXtra®) | 6.42 | 6.08 | 12.50 |
| 54Q14 | 5.78 | 5.83 | 11.61 |
| Mean | 6.50 | 6.86 | 12.81 |
| LSD (0.05) | 0.48 | 0.44 | |
| CV% | 5.2 | 3.92 | |

| <u>Southern, Wisconsin</u> <i>Seeded Spring 2021</i> | | | |
|--|------|------|-------|
| Tons Air-Dry Hay / Acre | | | |
| Variety | 2022 | 2023 | Total |
| 4015 FY | 5.38 | 6.03 | 12.74 |
| HiGest 460 | 5.39 | 5.80 | 12.41 |
| Rebound AA | 4.83 | 5.99 | 12.02 |
| Hybriforce 4400 | 5.18 | 5.69 | 12.00 |
| Megatron (HarvXtra®) | 5.03 | 5.71 | 11.90 |
| Pioneer 54Q14 | 4.87 | 4.98 | 11.10 |
| Mean | 5.21 | 5.93 | 12.03 |
| LSD (0.05) | 0.40 | 0.55 | |
| CV% | 5.37 | 5.58 | |

INTERPRETING YIELD RESULTS

LSD - Least Significant Difference

Differences between varieties are only significant if they are equal to or greater than the LSD.

CV% - Coefficient of Variation

The magnitude of experimental variability relative to the mean.

A high CV indicates excessive experimental variability, leading to less precise estimates of yields.

CV of less than 15% is desired - the closer the CV is to zero, the higher quality data



FORAGE QUALITY

Delve into the nutritional excellence of Harvest Haven alfalfa in these field trials, conducted across various seasons in the state of Wisconsin. These comprehensive assessments encompass yield, milk production, Relative Feed Quality, Crude Protein, lignin, and Neutral Detergent Fiber, demonstrating our commitment to providing alfalfa that stands among the best in forage quality.

| Central, WI | | Seeded Spring 2022 | | Quality Sampled Spring 2023 | | | | |
|-----------------|-------------|--------------------|----------------|-----------------------------|--------------|-------------|--------------|--------------|
| Entry | Yield | Milk/Acre | Milk/Ton | RFQ | CP | Lignin | NDFD30 | uNDFom240 |
| 5290VP | 6.76 | 21453 | 3173.50 | 194.56 | 22.03 | 5.34 | 45.22 | 15.65 |
| 4015FY | 6.56 | 21363 | 3256.50 | 210.29 | 22.61 | 5.21 | 47.42 | 14.28 |
| Megatron | 6.26 | 20641 | 3297.25 | 211.05 | 20.90 | 5.12 | 50.00 | 14.01 |
| AFX 460 | 6.39 | 20405 | 3193.25 | 191.24 | 21.73 | 5.12 | 41.98 | 16.03 |
| Rebound AA | 6.42 | 19902 | 3100.00 | 179.45 | 20.48 | 5.43 | 41.80 | 17.27 |
| Hybriforce 4400 | 6.31 | 19818 | 3140.75 | 193.83 | 22.36 | 5.34 | 45.91 | 15.44 |
| Average | 6.45 | 20597 | 3196.74 | 195.43 | 21.29 | 5.30 | 45.28 | 15.62 |
| LSD | | | NS | NS | NS | NS | NS | 2.01 |

Understanding Forage Quality

RFQ - Relative Forage Quality
Way to rank quality of forages and better predict animal productivity

CP - Crude Protein
Measure of nitrogen content

Lignin - Indigestible portion of alfalfa

NDFD30 - Digestibility % of NDF in 30 hours

uNDFom240 - Indigestible portion of NDF after 240 hours

| Central, WI | | Seeded Spring 2021 | | Quality Sampled Spring 2022 | | | | |
|---------------|-------------|--------------------|----------------|-----------------------------|--------------|-------------|--------------|--------------|
| Entry | Yield | M/A | Milk/Ton | RFQ | CP | Lignin | NDFD30 | uNDFom240 |
| 4044BR | 6.83 | 20,799 | 3045.25 | 193.63 | 23.44 | 5.24 | 50.14 | 15.29 |
| ReboundAA | 6.80 | 20,373 | 2996.00 | 184.75 | 22.38 | 5.77 | 48.51 | 16.16 |
| 4015FY | 6.76 | 20,152 | 2981.00 | 177.72 | 21.32 | 5.73 | 47.37 | 16.72 |
| AFX460 | 6.64 | 19,681 | 2964.00 | 182.87 | 22.26 | 5.58 | 48.00 | 16.32 |
| Megatron | 6.23 | 18,623 | 2989.25 | 184.74 | 22.05 | 5.40 | 50.67 | 15.78 |
| Hybri4400 | 6.17 | 17,796 | 2884.25 | 168.66 | 21.67 | 5.78 | 45.85 | 17.76 |
| 54Q14 | 5.94 | 17,279 | 2909.00 | 172.36 | 22.37 | 5.83 | 46.59 | 17.23 |
| Average | 6.48 | 19243 | 180.67 | 22.21 | 5.62 | 48.16 | 16.46 | 16.46 |

| Southern, WI | | Seeded Spring 2022 | | Quality Sampled Spring 2023 | | | | |
|-----------------|-------------|--------------------|----------------|-----------------------------|--------------|-------------|--------------|--------------|
| Entry | Yield | Milk/Acre | Milk/Ton | RFQ | CP | Lignin | NDFD30 | uNDFom240 |
| 4015FY | 7.07 | 22810 | 3226.33 | 228.62 | 24.08 | 5.23 | 58.99 | 10.96 |
| Megatron | 6.88 | 22167 | 3222.00 | 228.57 | 24.35 | 5.097 | 59.63 | 11.09 |
| 4044BR | 6.83 | 22079 | 3232.67 | 227.67 | 24.02 | 5.47 | 59.66 | 10.9 |
| Rebound AA | 6.69 | 21426 | 3202.67 | 222.73 | 23.57 | 5.32 | 57.28 | 11.28 |
| Hybriforce 4400 | 6.54 | 21292 | 3255.67 | 229.51 | 24.25 | 5.5 | 60.247 | 10.85 |
| Pioneer 54Q14 | 6.46 | 20386 | 3155.67 | 212.65 | 24.32 | 5.68 | 55.78 | 12.097 |
| Average | 6.75 | 21693 | 3235.45 | 226.56 | 24.17 | 5.36 | 58.56 | 11.12 |

| Southern, WI | | Seeded Spring 2020 | | Quality Sampled Spring 2022 | | | | |
|---------------|-------------|--------------------|----------------|-----------------------------|--------------|-------------|--------------|--------------|
| Entry | Yield | Milk/Acre | Milk/Ton | RFQ | CP | Lignin | NDFD30 | uNDFom240 |
| Hybri4400 | 5.36 | 16,568 | 3091.00 | 206.29 | 24.2 | 4.84 | 51.94 | 14.67 |
| 4044BR | 5.40 | 16,466 | 3049.25 | 201.86 | 24.24 | 5.03 | 52.92 | 14.82 |
| ReboundAA | 5.38 | 16,081 | 2989.00 | 189.76 | 23.99 | 5.22 | 50.04 | 15.99 |
| AFX460 | 5.49 | 15,836 | 2884.50 | 177.12 | 23.32 | 5.37 | 47.81 | 17.34 |
| 4015FY | 5.16 | 15,439 | 2992.00 | 189.89 | 23.59 | 5.25 | 51.04 | 15.75 |
| Megatron | 4.87 | 14,695 | 3017.50 | 190.23 | 23.68 | 4.95 | 50.14 | 15.87 |
| Pioneer 54Q14 | 4.83 | 13,647 | 2825.50 | 167.91 | 23.86 | 5.71 | 46.8 | 18.19 |
| Average | 5.21 | 15,533 | 2978.39 | 189.01 | 23.84 | 5.20 | 50.10 | 16.09 |



STAND PERSISTENCE

Check out the longevity of Harvest Haven alfalfa through these stand persistence field trials. As a brand committed to delivering long-lasting value, we showcase great percentages of plant survival from year to year. These trials underscore our unwavering dedication to providing a selection of resilient products that thrive across multiple seasons.

| Central, WI | |
|--------------------|-----------|
| Seeded Spring 2022 | |
| Rated Spring 2023 | |
| Variety | Average % |
| 4015 FY | 97.75 |
| 5290 VP | 97.00 |
| Megatron | 96.75 |
| Rebound AA | 96.50 |
| Hybriforce 4400 | 96.00 |
| AFX 460 | 94.50 |

| Central, WI | |
|--------------------|-----------|
| Seeded Spring 2021 | |
| Rated Spring 2023 | |
| Variety | Average % |
| 4015 FY | 94.75 |
| 4044 BR | 93.50 |
| Rebound AA | 92.50 |
| Megatron | 91.00 |
| Hybriforce 4400 | 89.75 |
| Pioneer 54Q14 | 89.75 |
| AFX 460 Hi-Gest | 86.25 |

| East Central, Wisconsin | |
|-------------------------|-----------|
| Seeded Spring 2021 | |
| Rated Spring 2023 | |
| Variety | Average % |
| 4015 FY | 88.75 |
| 4044 BR | 86.25 |
| 5290 VP | 83.75 |
| Hybriforce 4400 | 81.25 |
| Pioneer 54Q14 | 81.25 |
| Rebound AA | 81.25 |
| Megatron | 80.00 |
| AFX 460 Hi-Gest | 76 |

| Central, WI | |
|--------------------|-----------|
| Seeded Spring 2020 | |
| Rated Spring 2023 | |
| Variety | Average % |
| 5290 VP | 92.50 |
| Hybriforce 4400 | 90.00 |
| 4044 BR | 90.00 |
| Megatron | 90.00 |
| Higest 460 | 87.50 |

| Central, WI | |
|--------------------|-----------|
| Seeded Spring 2019 | |
| Rated Spring 2023 | |
| Variety | Average % |
| 5290 VP | 86.75 |
| Megatron | 85.00 |
| 4044 BR | 83.75 |
| WL 349HQ | 83.75 |
| 4015 FY | 82.50 |
| Rebound 6XT | 82.50 |
| AFX 460 | 78.75 |
| 55Q27 | 77.50 |
| Hybriforce 3430 | 31.25 |

| Central, WI | |
|--------------------|-----------|
| Seeded Spring 2020 | |
| Rated Spring 2023 | |
| Variety | Average % |
| Rebound AA | 88.00 |
| 4015 FY | 86.75 |
| Megatron | 85.25 |
| Hybriforce 4400 | 81.75 |
| 54Q14 | 80.50 |

