

UNDERTOW

0-0-3 FIELD READY 

**WINTER WHEAT TOP DRESS
TRIAL RESULTS
2023**



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UNDERTOW® WINTER WHEAT

TOP-DRESS TRIAL DATA

Findlay Farm - Whitewater, WI

Planting Date: Oct 9, 2023

Soil Type: St. Charles Silt Loam

Planting Depth: 1 inch

Soil sampling prior to planting:

- pH: 6.8
- P: 40 ppm
- K: 136 ppm
- CEC: 19.5
- Ca: 3619 ppm
- Mg: 633 ppm
- S: 3.9 ppm
- B: 0.5 ppm
- Mn: 24 ppm
- Zn: 3.9 ppm
- Sand: 10%
- Silt: 73%
- Clay: 17%
- O.M.: 3.1%

CONCLUSIONS

- **UNDERTOW**[®] top-dress treatments increased yield and ROI.
- The combination treatment of **UNDERTOW**[®] @ 1qt/acre + CELP[™] 4-0-9 @ 1 qt/ac is better than any other treatment (besides **UNDERTOW**[®] @ 2 qt/acre where they performed similarly) with 97% confidence. This treatment is significantly better than the standard check and commercial check with 99% confidence.
- **UNDERTOW**[®] @ 2 qt/acre increases yield and ROI.

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PROPULSION DELIVERY SYSTEM

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**UNDERTOW®
WINTER WHEAT
TOP-DRESS TREATMENTS
Findlay Farm - Whitewater, WI**

UNDERTOW® WINTER WHEAT TOP-DRESS TREATMENTS

- 1. UAN 28% at 20 gal/acre (CHECK)**
- 2. UAN 28% at 19 gal/acre with UNDERTOW® at 1 qt/acre**
- 3. UAN 28% at 19 gal/acre with UNDERTOW® at 2 qt/acre**
- 4. UAN 28% at 19 gal/acre with UNDERTOW® at 1 qt/ac + CELP™ 4-0-9 @ 1 qt/ac**

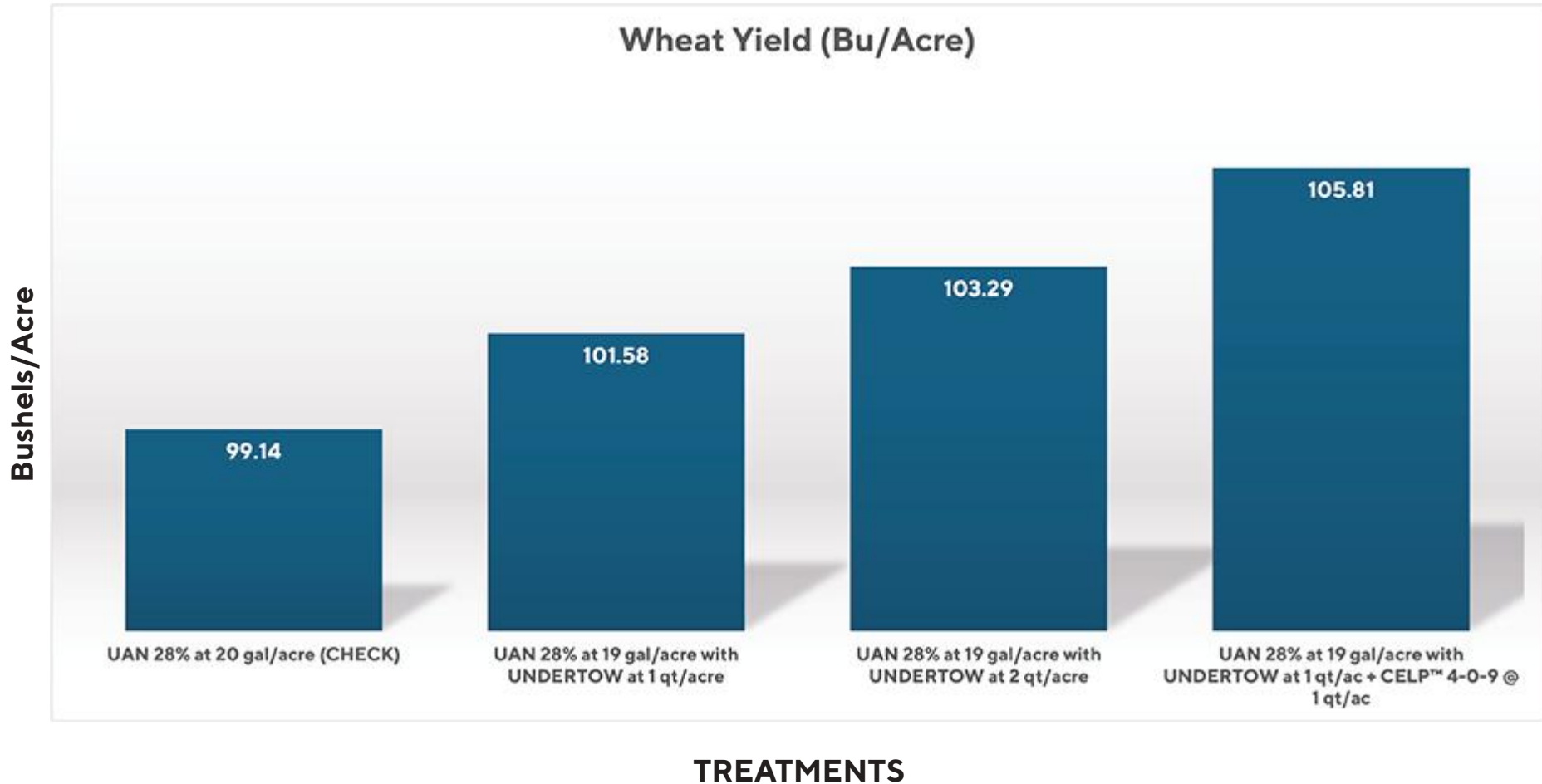
TREATMENT NOTES

- **Water spray volume:** 15 gal/acre
- **Seed treatment:** October 7, 2022
- **Emergence date:** October 21, 2022
- **Top-dress fertilizer:** April 20, 2023
- **Feekes 3.0/Foliar application:** April 20, 2023
- **Feekes 8.0:** May 16, 2023
- **Fungicide/Feekes 10.1:** June 03, 2023
- **Feekes 10.5:** June 07, 2023
- **Harvest:** Aug 23, 2023

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WHEAT YIELD RESULTS



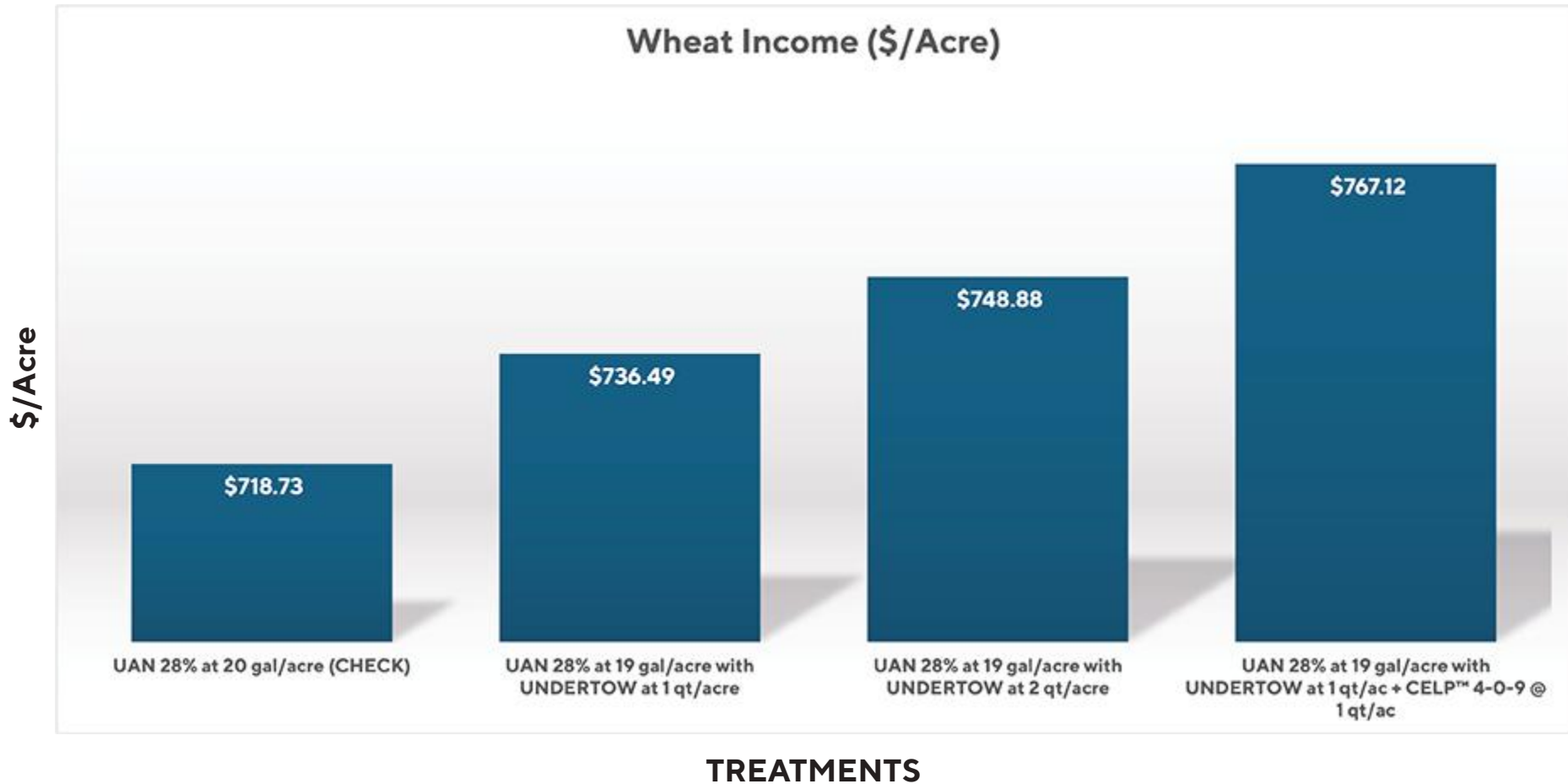
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WHEAT YIELD DIFFERENCE



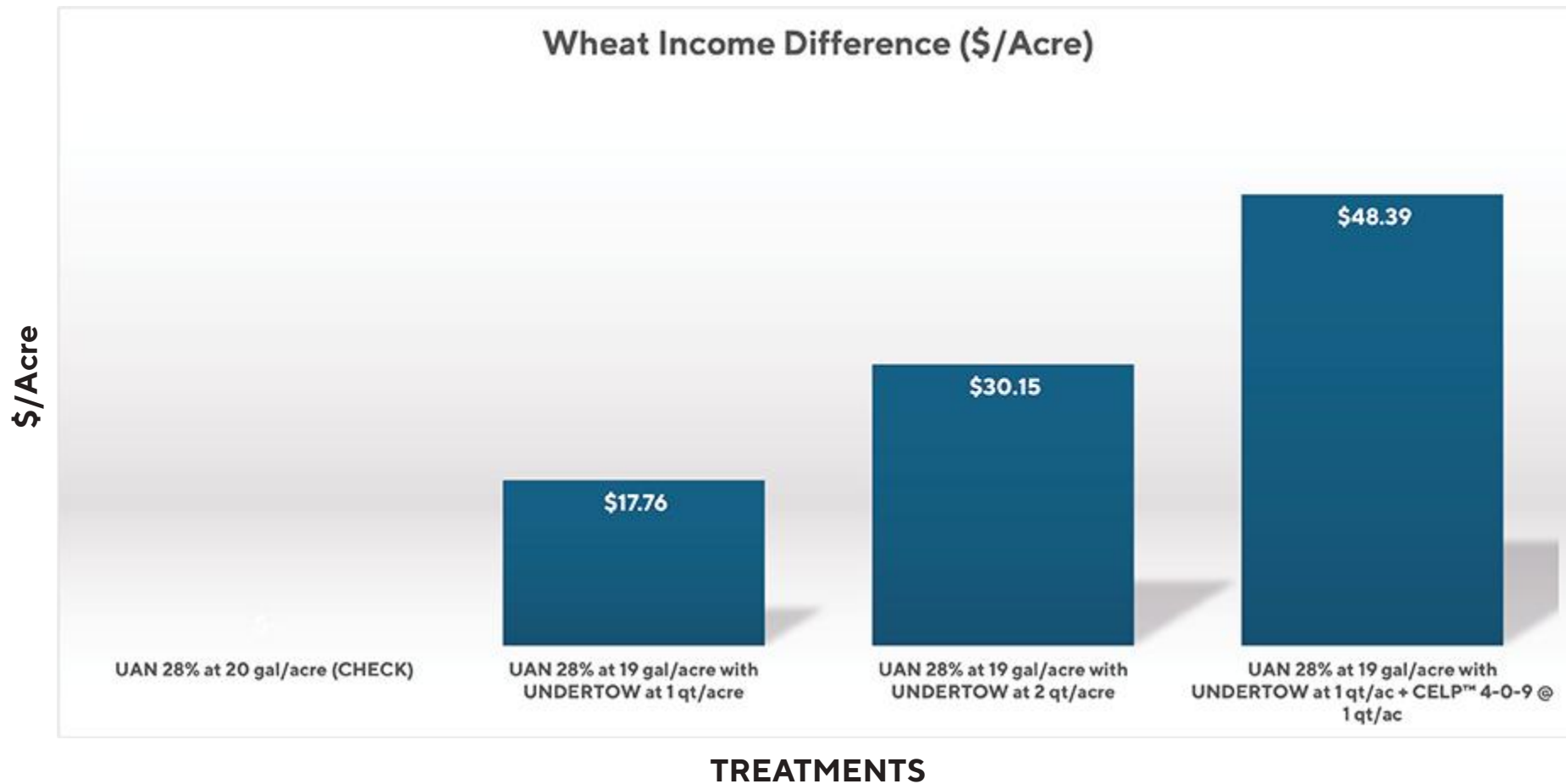
WHEAT INCOME (GRAIN @ \$7.25/Bu)



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WHEAT INCOME DIFFERENCE (GRAIN @ \$7.25/Bu)



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UNDERTOW® WINTER WHEAT TOP-DRESS TRIAL DATA Findlay Farm - Whitewater, WI

- In April, we received 2.10" of rain, and temperatures were cool so the ground stayed cold and wet. There were only a few good dry days for fieldwork.
- In May, we received 1.35" of rain and temperatures warmed up greatly. Most days were sunny and windy, drying topsoil thoroughly. Conditions became increasingly droughty.
- In June, we received only 1.4" of rain and temperatures were much warmer than normal, wheat growth was strong.
- In July, we received 5.25" of rain, and temperatures were still warm, but rainfall helped greatly. Excellent to finish the wheat crop.
- 3.25" of total rainfall fell in the last four days of July.
- Plant density stands were excellent, no visible issues due to winterkill or from spring ponding or icing.
- Grain and straw were excellent.
- There was no disease in any of the wheat this year, head scab was not an issue, nor any other diseases. Overall grain quality was very good.

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