

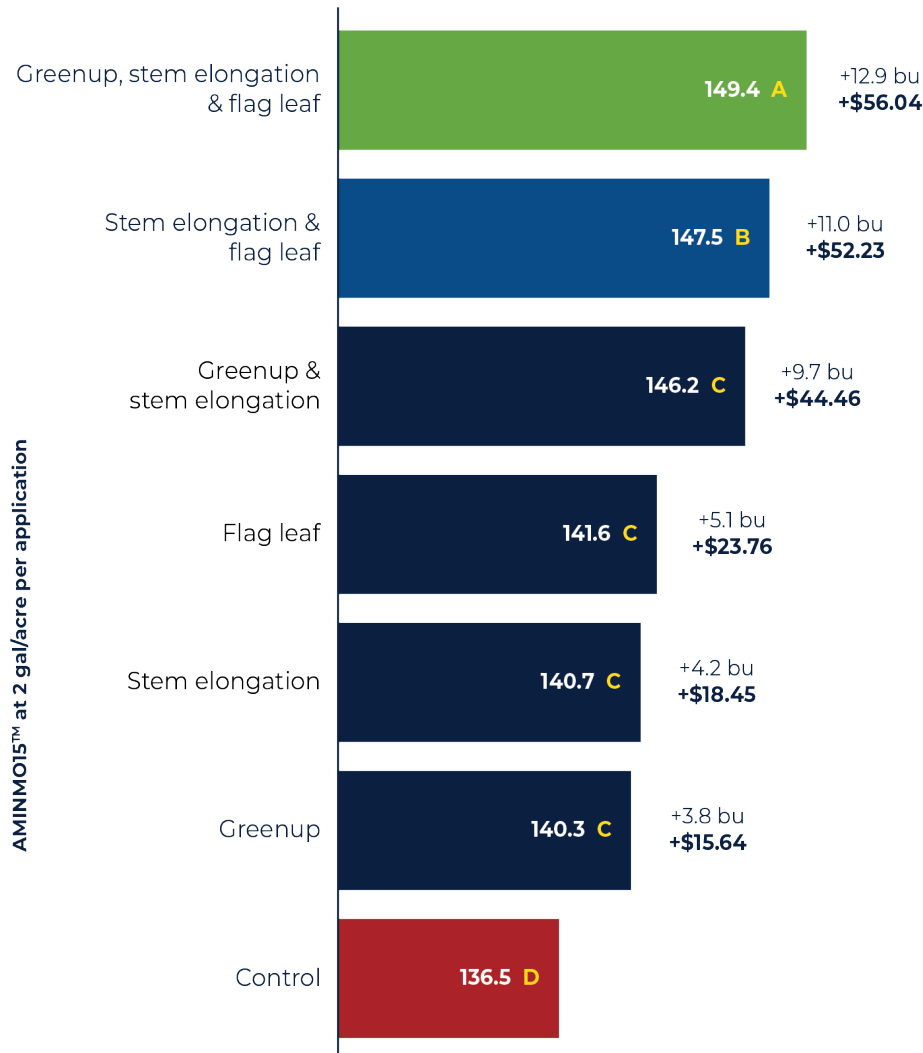
OPTIMIZING AMINO15™ APPLICATION TIMING IN WINTER WHEAT

Hubbard Ag Science | Rosalia, WA

This winter wheat trial in Rosalia, WA tested the best timing for applying Amino15™ (2 gal/ac) at three growth stages: **green-up, stem elongation, and flag leaf**.

- **Single applications** increased yields by 3.8–5.1 bu/ac, with the flag leaf stage performing best.
- **Dual applications** boosted yields by 9.7–11.0 bu/ac, with the stem elongation + flag leaf combo giving an ROI of \$52.23.
- **Triple applications** across all stages gave the highest gain at +12.95 bu/ac and the strongest ROI.

Even in a challenging wet spring followed by a dry year, targeted Amino15™ applications increased yield and profit—especially when applied more than once.



Means followed by the same letter are not significantly different ($P \leq 0.05$).

Figure 1. Effect of L-CBF Amino15™ applied at different growth stages on winter wheat yield in the Palouse Region, WA.

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* Results may vary. Always perform a jar test before application

L-CBF RESEARCH TRIAL



TRIAL DETAILS

Variety: Winter Wheat (Sockeye CL+)

Pre-Emerge Fertilizer:

Urea Ammonium Nitrate (UAN 32-0-0): 24 gal/acre
Ammonium Thiosulfate (ATS 12- 0-0-26S): 4 gal/acre
Ammonium Polyphosphate (APP 11-37-0): 4 gal/acre

Nutrients applied lbs:

95 N - 17 P - 0 K - 11 S

Planting: Oct. 9, 2024

Emergence: Oct. 25, 2024

Harvest: July 29, 2025

Population: 1,000,000 seeds/ac

Plot Size: 8 × 30 ft

Replications: 6

Green-up (V4-V5): April 21st, 2025

Stem Elongation: May 8th, 2025

Flag Leaf: May 19th, 2025

Amino15™ is one of QLF's most trusted products for improving crop performance as a foliar feed. It combines molasses-based carbon with L-amino acid nitrogen (15-0-1) for quick absorption through the leaves and efficient nitrogen delivery to the crop.

