

Huma® X-Tend® Increases Glyphosate Effectiveness Against Resistant Weeds

Field Trial

Conducted by: Wheat Grower in Leoti, Kansas
 Huma® Product: X-Tend®

Objective

Over the years, some weeds have developed resistance to common herbicides such as glyphosate. To overcome this hurdle, some growers may bump up the rates or add other herbicides or products with different mechanisms/modes of action into the tank mix. Such approaches have had mixed results over the long run and have increased the cost of weed control.

In this study, Huma® X-Tend® was added to a glyphosate product to test the potential for improving the herbicidal efficacy of the product in a cost-effective way.

Materials & Methods

This study was conducted on a 160-acre wheat field in Leoti, Kansas, one month after the crop was harvested. The field was divided into two 80-acre sections. One section (Check) was sprayed with Showdown (Helena, 499% glyphosate) only, and the other section was sprayed with Showdown plus Huma® X-Tend® (Table 1). In both sections, ammonium sulfate (AMS) was added to the Showdown tank prior to spraying the wheat stubble.

Table 1. Net Glyphosate Weed Treatment, Without and With Huma® X-Tend® Added

Treatment	Products
Check	32 fl oz Showdown + 0.625 lb AMS @ 5 gallons/acre
Huma® X-Tend®	32 fl oz Showdown + 0.625 lb AMS + 0.25 fl oz X-Tend® @ 5 gallons/acre

Ten days after application, the efficacy of the glyphosate-plus-X-Tend® mixture was assessed and compared with the glyphosate-only section of the field (Figure 1).

Results

Addition of Huma® X-Tend® to glyphosate remarkably improved the efficacy of the herbicide (Figure 1). The control of pigweed, kochia, and other weeds with the glyphosate-plus-X-Tend® was about 99%, while without X-Tend® the kill was at about 75%. Only the kochia weeds are visible in the right-half section of the photo in Figure 1.

Conclusions

The cost of adding Huma® X-Tend® to an herbicide is minimal, but the benefit is significant.

Product Information

Huma® X-Tend® is an excellent source of Micro Carbon Technology® formulated with organic acids and nutrients to improve the efficiency, release, and uptake of fertilizers and herbicides. X-Tend® helps release nutrients tied up in soils and is an outstanding additive for complexing most foliar nutrients and other liquid and granular crop inputs.



For more X-Tend® Research Reports, product documentation, and other information, follow this QR Code at left.



Figure 1. Glyphosate plus Huma® X-Tend® on the left, versus the glyphosate-only treated field on the right.