

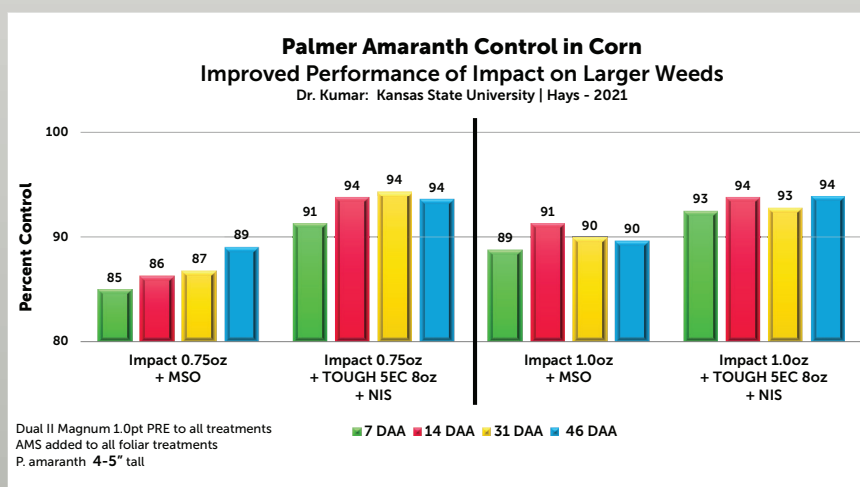
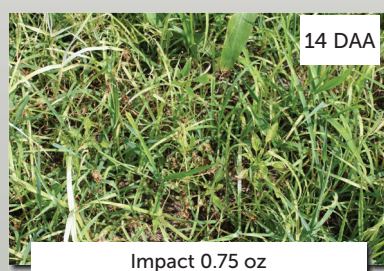
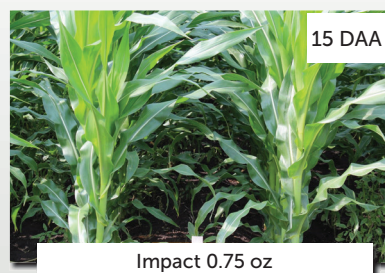
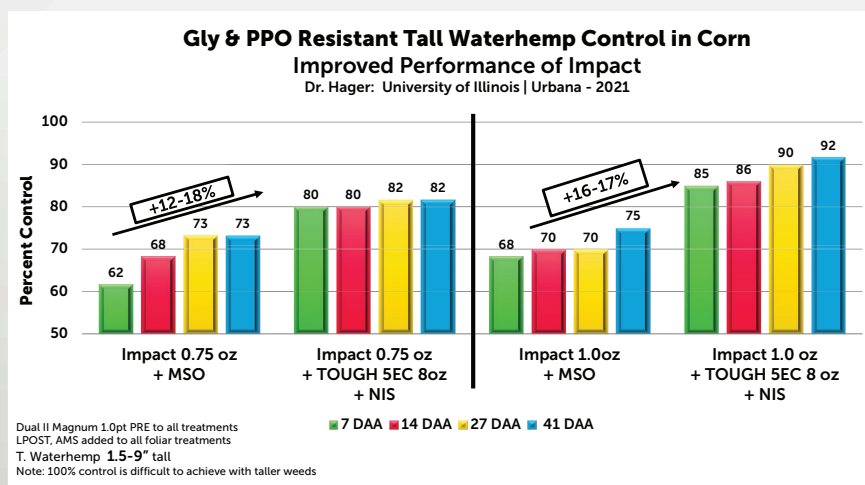
Technical Bulletin



Synergizes HPPDs - Including Topramezone

OBJECTIVE

Several trials were initiated in 2021 to further demonstrate pyridate's proven "synergy" with HPPD herbicides. Trials evaluating topramezone (Impact®), were conducted under different conditions & weed spectrums across the cornbelt at University of Illinois, Kansas State University and Purdue University. Due to lengthy crop rotation restrictions for the 1.0 oz rate of Impact, growers desire to use the 0.75 oz rate with shorter rotation restrictions. Addition of TOUGH 5EC 8 oz to increase performance of Impact applied under challenging conditions, 4-5+ inch weeds, was researched. Trial results are summarized below.



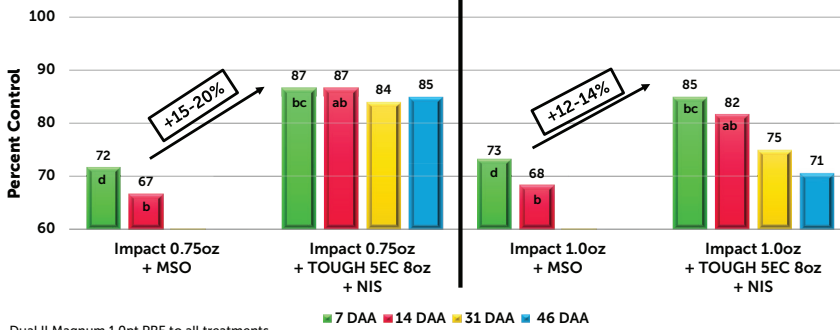
Note: Impact label suggests MSO not be used when tank mixed with other herbicides.



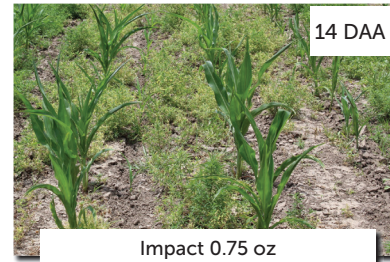
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Kochia Control in Corn Improved Performance of Impact

Dr. Kumar: Kansas State University | Hays - 2021



Dual II Magnum 1.0pt PRE to all treatments
AMS added to all foliar treatments
Kochia 3-4" Tall



Impact 0.75 oz



Impact 0.75 oz + TOUGH 5EC 8 oz



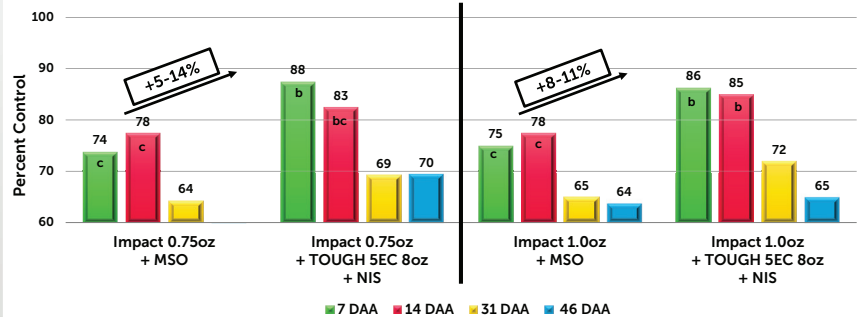
Impact 0.75 oz



Impact 0.75 oz + TOUGH 5EC 8 oz

Southwestern Cupgrass Control in Corn Improved Performance of Impact

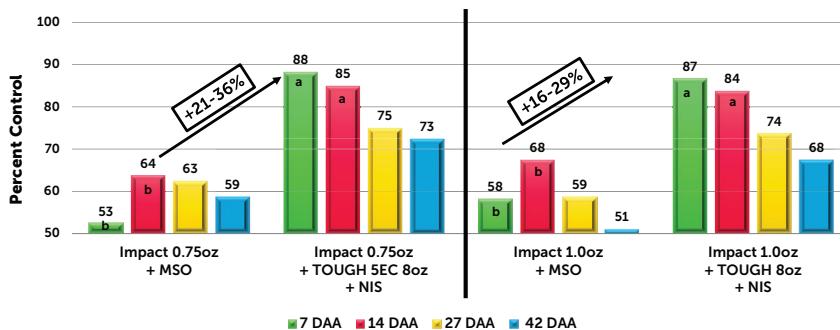
Dr. Kumar: Kansas State University | Hays - 2021



Dual II Magnum 1.0pt PRE to all treatments
AMS added to all foliar treatments

Morningglory (Tall & Ivy-leaf) Control in Corn Improved Performance of Impact

Dr. Young: Purdue University | Winamac - 2021



Dual II Magnum 0.33 pt PRE to all treatments
AMS added to all foliar treatments
Morningglory 0.5-2" tall, 4/ft²

RESULT SUMMARY

Adding TOUGH® 5EC at the 8 ounce rate dramatically improved control of a variety of weeds at multiple locations when compared to Impact used alone. For additional trial results, contact your local TOUGH 5EC retailer or representative.

Together, we can get TOUGH on Weeds!