2026 Trial Results

Company/Farm/Research name	Trial treatment used	Trial rate used	Application timing	Crop Treated	Untreated Yield	Treatment Yield	Comments/Notes
Performance Crop Research	Regular fertilizer	140-30-105-20 Granular fert Planting 5 gal/ac 10-34-0	Broadcasting prior to planting - granular fert Seeding timing - Liquid fert	Grain Corn - Irrigated	192 bu/ac		Granular Fert = $246.00/per ac Floating = $20.00/per ac 10-34-0 = $23.00/per ac Total cost = $289.00 Revenue $5/bu x 192 bu/ac = $960 Total Revenue - Total cost Net Revenue = $671/per ac
Performance Crop Research	Reduced fertilizer	140-0-0-0 Granular fert	Broadcasting prior to plant - granular fert	Grain Corn - Irrigated	191 bu/ac		Granular Fert = $126.00/per ac Floating = $20.00/per ac Total Cost = $146.00/per ac Revenue $5/bu x 191 bu/ac = $955 Total Revenue - Total cost Net Revenue = $809.00/per ac
Performance Crop Research	Reduced fertilizer + Full Vantage Ag Program	Broadcasting - Granular Fert 140-0-0-0 1st pass: P - 160ml/ac K - 160ml/ac S - 40ml/ac 2nd pass: P - 250ml/ac K - 250ml/ac S - 40ml/ac 3rd pass: P - 160ml/ac K - 200ml/ac S - 40ml/ac	Broadcasting prior to plant - Granular Fert 1st pass - V4 2nd pass - V8 3rd pass - pre-tassel	Grain Corn - Irrigated		192 bu/ac	Granular Fert = $126.00/ac Floating = $20.00/per ac 1st pass Quantum Fertilizers cost per/ac = $18.60/ac 2nd pass Quantum Fertilizers cost per/ac = $26.80/ac 3rd pass Quantum Fertilizers cost per/ac = $20.45/ac Total cost = $211.85/ac Revenue $5/bu x 192 bu/ac = $960 Total Revenue - Total cost Net Revenue = $748.15/per ac

Performance Crop Research	Zero fertilizer + Full Vantage Ag Program	1st pass: N - 160ml/ac P - 160ml/ac K - 160ml/ac S - 40ml/ac 2nd pass: N - 500ml/ac P - 250ml/ac K - 250ml/ac S - 40ml/ac 3rd pass: N - 350ml/ac P - 160ml/ac K - 200ml/ac S - 40ml/ac	1st pass - V4 2nd pass - V8 3rd pass - pre-tassel	Grain Corn - Irrigated		199 bu/ac	1st pass Quantum Fertilizers cost per/ac = $25.45/ac 2nd pass Quantum Fertilizers cost per/ac = $48.25/ac 3rd pass Quantum Fertilizers cost per/ac = $34.75/ac Total cost = $108.45/ac Revenue $5/bu x 199 bu/ac = $995 Total Revenue - Total cost Net Revenue = $886.55/per ac
Performance Crop Research	Reduced fertilizer + Full Vantage Ag Program	Broadcasting - Granular fert 70-0-0-0 1st pass: N - 160ml/ac P - 160ml/ac K - 160ml/ac S - 40ml/ac 2nd pass: N - 350ml/ac P - 250ml/ac K - 250ml/ac S - 40ml/ac 3rd pass: N - 160ml/ac P - 160ml/ac K - 200ml/ac S - 40ml/ac	Broadcasting prior to plant - Granular Fert 1st pass - V4 2nd pass - V8 3rd pass - pre-tassel	Grain Corn - Irrigated		203 bu/ac	Granular Fert = $63.00/ac Floating = $20.00/per ac 1st pass Quantum Fertilizers cost per/ac = $25.45/ac 2nd pass Quantum Fertilizers cost per/ac = $41/ac 3rd pass Quantum Fertilizers cost per/ac = $23.30/ac Total cost = $172.75/ac Revenue $5/bu x 203 bu/ac = $1015.00 Total Revenue - Total cost Net Revenue = $842.25
Performance Crop Research	Zero fertilizer + Full Vantage Ag Program	1st pass: N - 200ml/ac P - 200ml/ac K - 200ml/ac S - 40ml/ac 2nd pass: N - 350ml/ac P - 200ml/ac K - 200ml/ac S - 65ml/ac 3rd pass: N - 500ml/ac P - 200ml/ac K - 250ml/ac S - 65ml/ac	1st pass - V4 2nd pass - V8 3rd pass - pre-tassel	Grain Corn - Irrigated		189 bu/ac	1st pass Quantum Fertilizers cost per/ac = $30.85/ac 2nd pass Quantum Fertilizers cost per/ac = $39.20/ac 3rd pass Quantum Fertilizers cost per/ac = $48.50/ac Total cost = $118.55/ac Revenue $5/bu x 189 bu/ac = $945 Total Revenue - Total cost Net Revenue = $826.45/per ac

Performance Crop Research	Regular fertilizer	N/A	At seeding	Irrigated Soybeans	52 bu/ac		Revenue $15/bu x 52 bu/ac = $780 Net Revenue = $780.00/per ac
Performance Crop Research	Regular fertilizer + Quantum Sulphur	N/A 1st pass - S - 80ml/ac	Granular fertilizer At seeding - N/A 1st pass - V3 to V4 stage	Irrigated Soybeans		55 bu/ac	Quantum Fertilizer 1st pass cost per/ac = $8.33/ac Revenue $15/bu x 55 bu/ac = $825 Total Revenue - Total cost Net Revenue = $816.67/per ac 6 to 1 ROI
Performance Crop Research	Regular fertilizer + 2 - pass Quantum Sulphur	N/A 1st pass - S - 50ml/ac 2nd pass - S - 50ml/ac	Granular fertilizer At seeding - N/A 1st pass - V3 to V4 stage 2nd pass - R1 stage	Irrigated Soybeans		54 bu/ac	Quantum Fertilizer 1st pass cost per/ac = $5.00/ac Quantum Fertilizer 2nd pass cost per/ac = $5.00/ac Revenue $15/bu x 54 bu/ac = $810.00 Total Revenue - Total cost Net Revenue = $800.00/per ac 3 to 1 ROI

Performance Crop Research	Regular fertilizer + Defender	N/A 1st pass - Defender 500ml/ac	Granular fertilizer At seeding - N/A 1st pass - R1 stage	Irrigated Soybeans		54 bu/ac	Quantum Fertilizer 1st pass cost per/ac = $7.50/ac Revenue $15/bu x 54 bu/ac = $810.00 Total Revenue - Total cost Net Revenue = $802.50/per ac 4 to 1 ROI