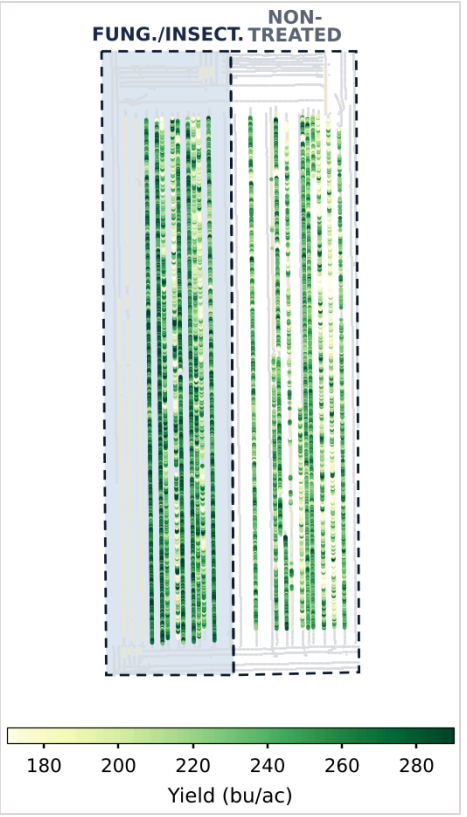
Corn Field Trial: Both Hybrids with Fungicide/Insecticide Yielded 17-21 Bu/Ac More.

Foliar Fungicide/Insecticide vs. Non-Treated, Danforth S169: Revytek + bifenthrin applied July 15 on four 120-ft passes, vs. the next 480 ft. The planter alternated AgriGold 644-64VT2 and Hoegemeyer 8440V in 60-ft strips; each hybrid is compared with itself.



removed in cleanup
fungicide/insecticide or strip-till area
trial-area boundary
straddling strips or border hybrid

Fungicide/insecticide 480 ft (shaded) and the next 480 ft non-treated. Colored points are combine passes fully inside one 644-64VT2 or 8440V strip, as planted. The as-applied file shows a second sprayed 240-ft block at the east edge of the non-treated strip, so the whole-strip row is not shown.

AGRIGOLD 644-64VT2 · YIELD MONITOR

AREA	YIELD, BU/AC	MOIST.	ACRES	POINTS
Fungicide/insecticide · 480 ft	**258.8**	18.9%	4.5	2,473
Non-treated · next 480 ft	**238.3**	18.7%	4.7	2,739

+20.5 BU/AC
fungicide/insecticide – next 480 ft

REVENUE DIFFERENCE
+$93 /AC
+20.5 bu × $4.55

EST. RETURN AFTER $35
+$58 /AC

644-64VT2 difference with a 30 / 60 / 90 ft edge buffer: **+20.4 / +20.5 / +21.3** bu/ac

HOEGEMEYER 8440V · YIELD MONITOR

AREA	YIELD, BU/AC	MOIST.	ACRES	POINTS
Fungicide/insecticide · 480 ft	**224.8**	17.6%	3.6	2,322
Non-treated · next 480 ft	**207.8**	18.0%	2.5	1,813

+17.0 BU/AC
fungicide/insecticide – next 480 ft

REVENUE DIFFERENCE
+$77 /AC
+17.0 bu × $4.55

EST. RETURN AFTER $35
+$42 /AC

8440V difference with a 30 / 60 / 90 ft edge buffer: **+16.9 / +17.0 / +17.4** bu/ac

Hybrids matched to the planting record. The combine logged every pass as 8440V, so each point was matched to the hybrid under the full 20-ft head (after a 3.5-ft GPS offset fix). Left out: 1,286 treated and 693 non-treated points straddling two strips or on border hybrids, and one non-treated 8440V pass that ran 24% below the other 8440V passes end to end at normal speed, as if 2 of 8 rows had already been cut by the second combine (kept in, 8440V would be +29.9).

DATA CLEANUP	IN AREA	USED	KEPT	LARGEST REMOVALS
Fungicide/insecticide 480 ft	9,306	4,795	52%	other hybrid/variety or straddling 1,286, edge buffer 1,259, headland passes 847
Next 480 ft	10,940	4,552	42%	near sprayed ground 1,437, partial header 1,122, headland passes 837

Yield-monitor data cleaned the same way on both sides (bad points, headlands, turns and a 60-ft edge buffer removed); hybrids and varieties matched to the planting record. Est. return = difference × $4.55 – $35/ac.