



360 RAIN YIELD TRIAL

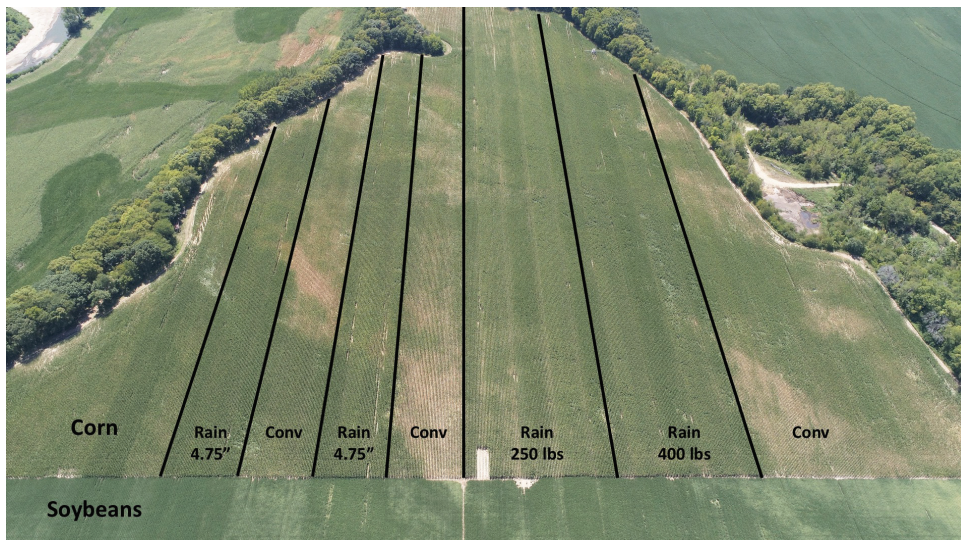
TREMONT, IL

PURPOSE

360 RAIN is a new concept in managing row crops throughout the growing season. In this side-by-side, we measured the impact of adding small, timely amounts of rain - along with nitrogen and micronutrients - during the growing season and compared the results to traditional management practices.

✓ DETAILS

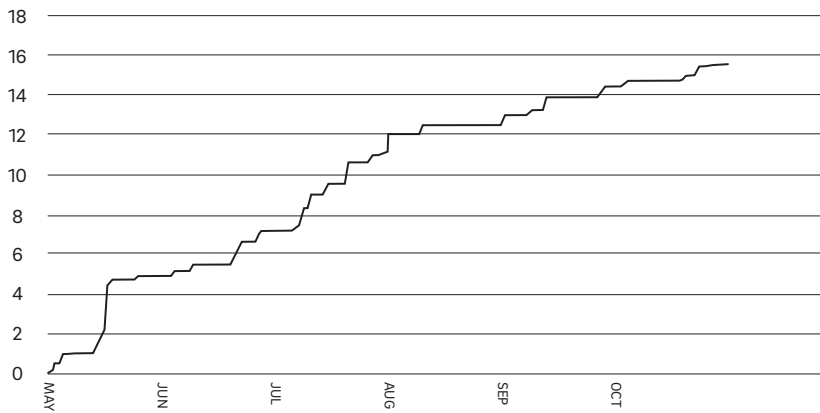
- 1 Previous Crop: Soybeans
- 2 A 55-acre field was divided into 60' blocks. Alternating strips received a total of 4.75" of water throughout the 2020 growing season.
- 3 Base nitrogen rate was 200 units for both the watered and the non-watered strips.
- 4 Nitrogen and micros in the 360 RAIN treated strips were applied through the 360 RAIN unit.
- 5 Nitrogen and micros in the conventional strips were applied with 360 Y-DROP.
- 6 Two watered blocks received an additional 50 and 200 units of nitrogen to test the response against different N levels.
- 7 Each block was planted at two populations: 36,000 and 48,000 seeds per acre.



BY AUGUST, UN-WATERED STRIPS APPEAR

2020 RAINFALL ACCUMULATION

Rainfall chart during growing season shows dry period from May through late June and again during the fall period - mid August.

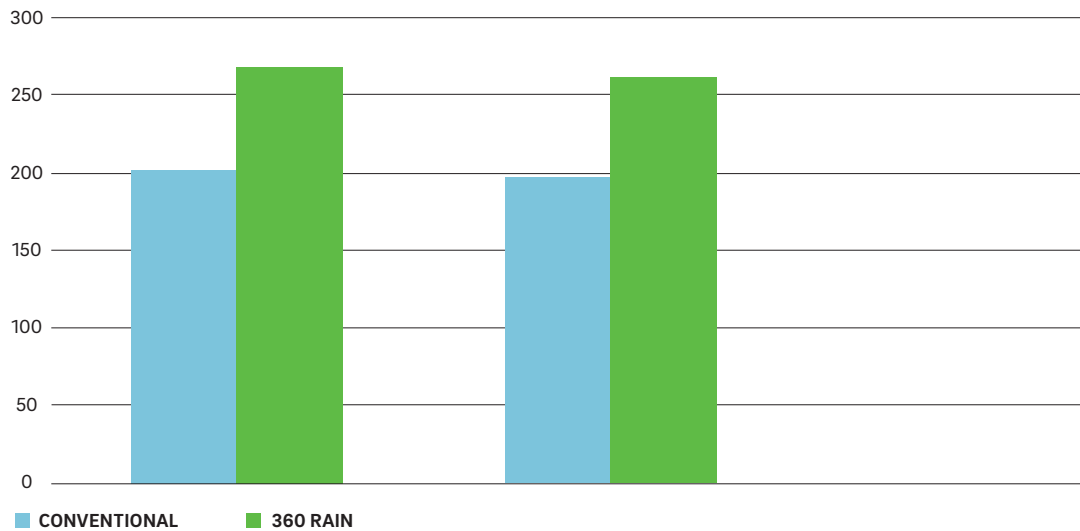


RESULTS

360 RAIN VS UN-WATERED STRIPS - 200 UNITS OF N

HYBRID	POPULATION	CONVENTIONAL	360 RAIN	GAIN
Wyffels 8936	36,000	205	278	73
Wyffels 8936	48,000	201	260	59
Pioneer 1197	36,000	198	258	60
Pioneer 1197	48,000	192	260	68
		198	264	65

IMPACT OF 360 RAIN ON YIELD



360 STRIPS WITH VARYING RATES OF N

POPULATION	200 UNITS OF N	250 UNITS OF N	400 UNITS OF N
36,000	268	267	257
48,000	260	269	259

★ KEY TAKEAWAY

This field responded to an additional 4.75" of water with an average yield increase of 65 bushels per acre. With adequate moisture provided by 360 RAIN, neither the higher populations nor the added nitrogen provided any additional economic yield increase.

