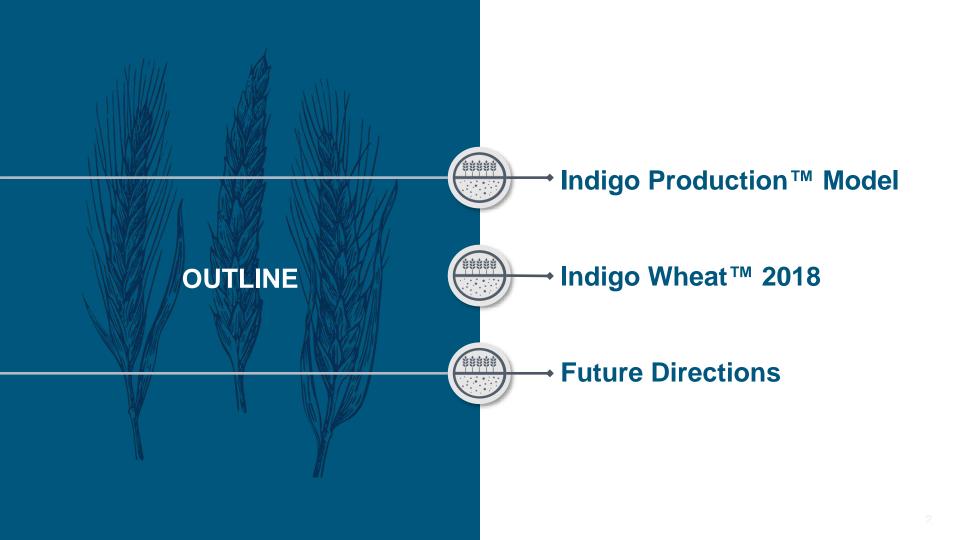
DECEMBER 3, 2018

Indigo Wheat[™] 2018 Harvest: A New Production Model for Enhanced Yield

<u>Mike Gusefski</u>

Senior Product Manager, Indigo





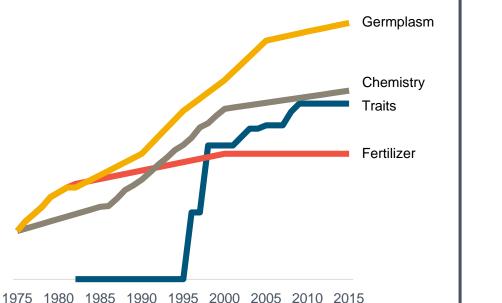


ondigo



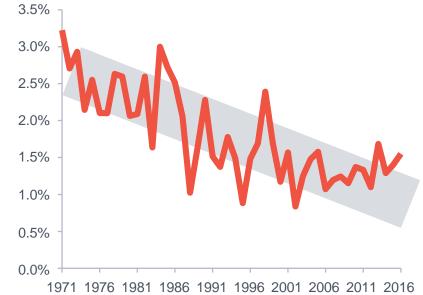
Harnessing Nature to Help Farmers Sustainably Feed the Planet

Agricultural Technologies and Productivity are Plateauing



Innovation Rate of Key Farm Technologies

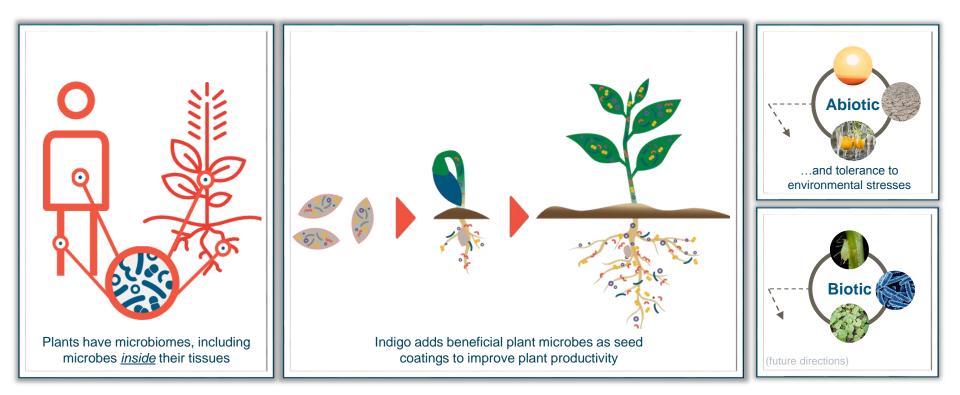
Growth Rate of Average Crop Yields



Left Chart reflects cumulative impact of technology introductions by innovation since 1975 (based on a relative scale for shown innovations). Scale based on Company knowledge and industry research. Source: USDA, Indigo analysis.

°indigo

Applying Human Microbiome Science to Naturally Increase Plant Resilience



Indigo Production™ Model

Our production model provides certified treated seed and agronomic support



Yield Increases

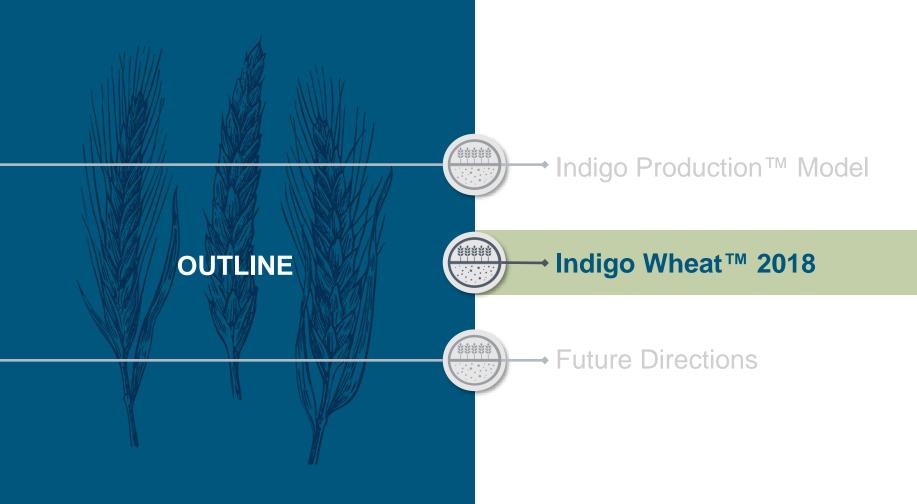
Achieved by addressing abiotic stresses

Resource Reductions

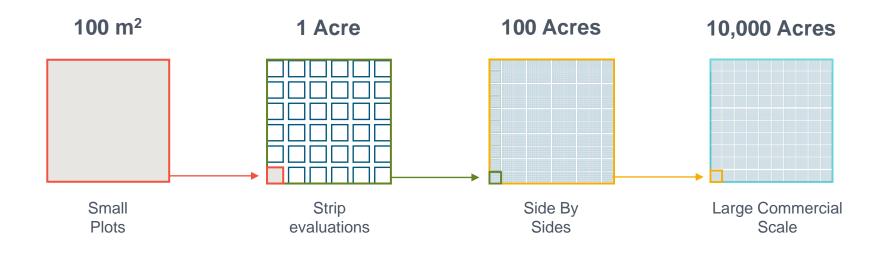
Reductions in N, P, K, Fungicide, and Herbicide

Quality Improvements

Increasing physical and nutritional characteristics



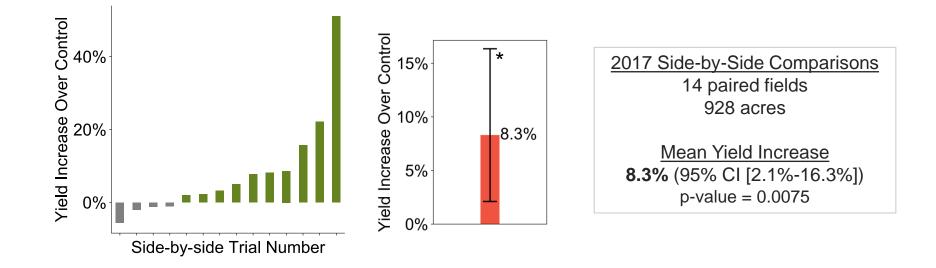
We Test Our Products Over a Wide Range of Acreages



Our desire to continually improve our products leads us to collect field data from side-by-side comparisons and large commercial acreage

°indigo

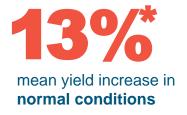
2017 Side-by-side Winter Wheat Evaluations Demonstrated Increased Yield with Indigo Production™



2018 Side-by-side Winter Wheat Evaluations Demonstrated Increased Yield with Indigo Production™



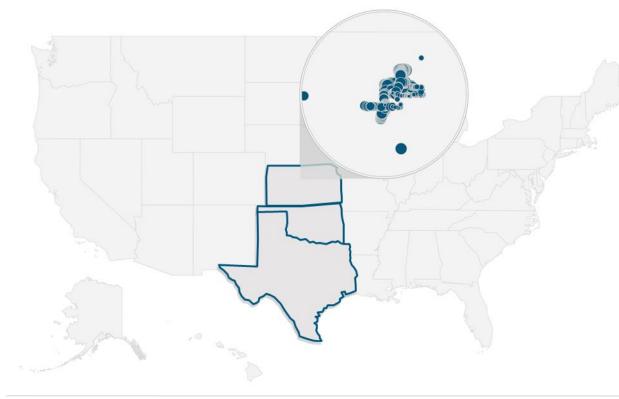
Wheat from Kansas Growers



*Data represents conventional variety results seen in ≤ 30 bu/ac yield environments

How to Assess Yield Uplift Without Direct Controls?

To compare Indigo Wheat[™] acres vs. untreated wheat, we turned to satellite data



- Our Agronomists dropped pins on >900 neighboring non-Indigo control fields
- 386 field boundaries treated with Indigo were used to train yield predictive algorithms

Туре	Field Number	
Control Pins	986	
Indigo	389	

Leveraging Satellite Technology Lets us Collect Data from Multiple Dimensions Per-field

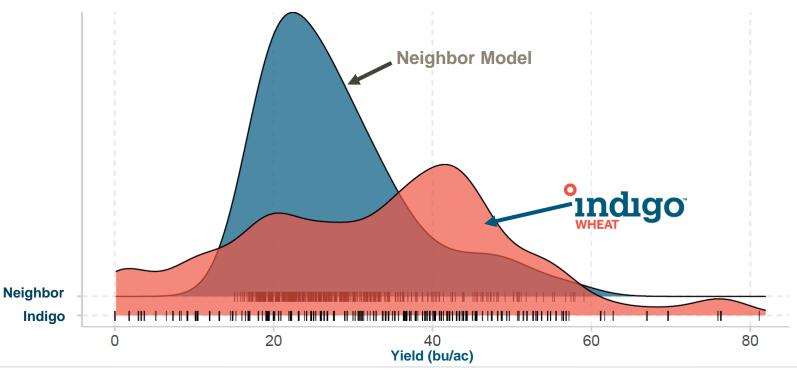
These data can be correlated to plant health and yield at harvest





Compared to Untreated Neighbors, Indigo Wheat™ Growers Produced More Wheat

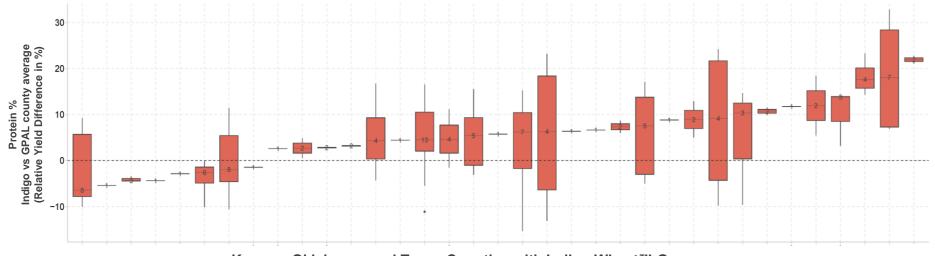
Median yield uplift 12.7% (95% Ci: 6.29, 18.01)



°indigo

Indigo Wheat[™] Growers Produced High-Quality Crop

Protein concentration increased from 12.7% to 13.8% (9% increase) by county average

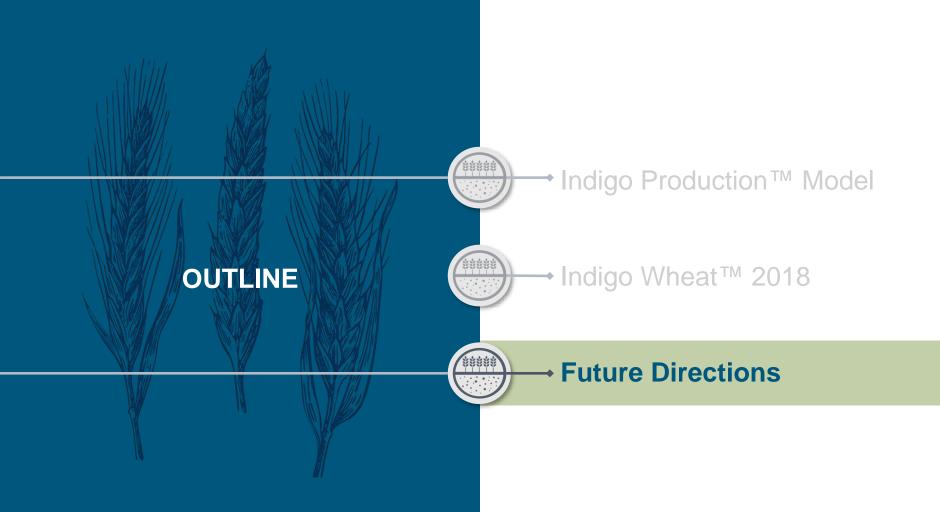


Kansas, Oklahoma, and Texas Counties with Indigo Wheat™ Growers

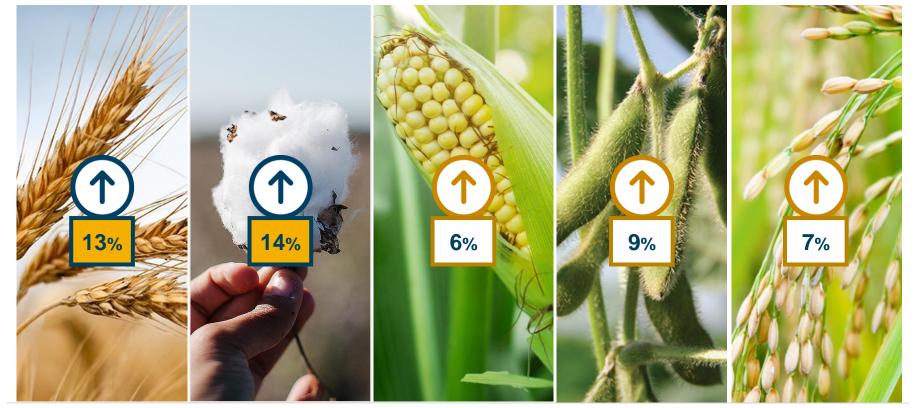
Averages for % moisture, falling number, test weight, and 1,000 kernel weight were unchanged

Growers Could Have Increased Profitability through Premium Pricing and Higher Yield Potential

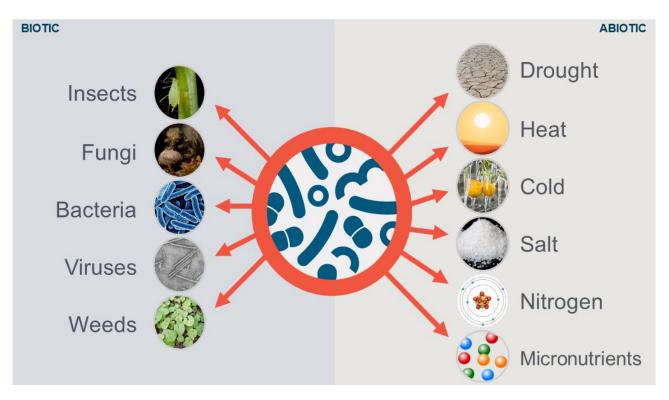
	Indigo Growers	Other Growers	
Yield	45.08 bu/ac	40 bu/ac	12.7% higher yield than control fields
Price	\$5.95/bu	\$5.31/bu	\$0.64 / bu
Microbial Coating	\$9/ac more	-	Drought Stress
Other costs (seed, transport, etc.)	\$17.54	\$17.50	Mitigation \$46.79 / ac (24%)
Total	\$241.69/ac	\$194.90/ac	expected Indigo Advantage



We've delivered significant yield increases across 5 major crops



We Will Continue Launch New Products and Target Plant Stresses Over the Coming Years





QUESTIONS

?

?

?