



## **Pellet<sub>3-1A</sub> Cotton Trial**

June - October 2017

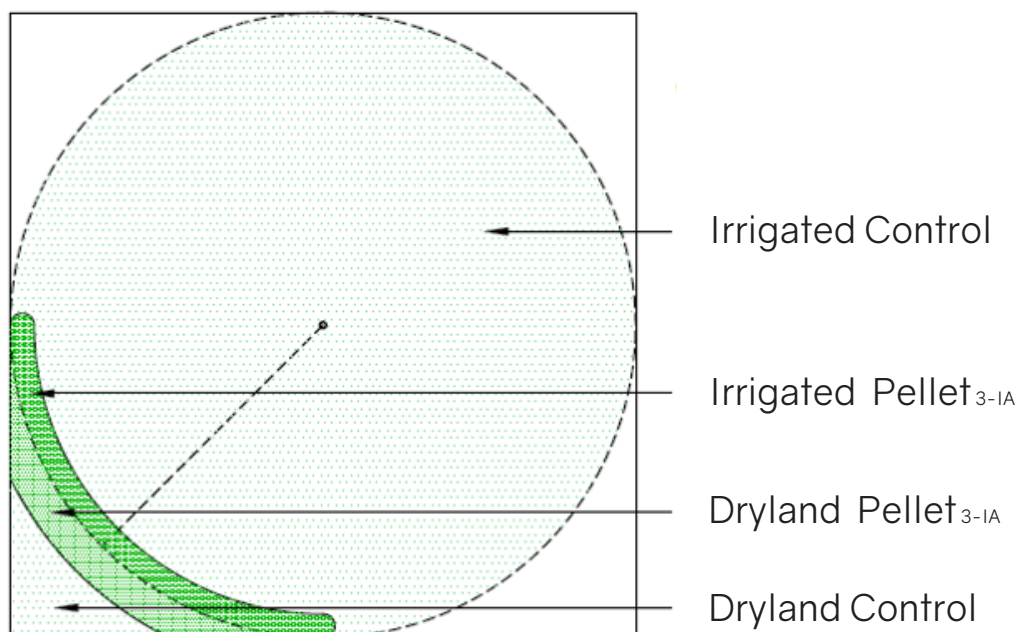
Texas Panhandle, North of Lubbock

# Objective

- To measure the effect of applying MitoGrow™ Pellet<sub>3-1A</sub> to common cotton

# Method

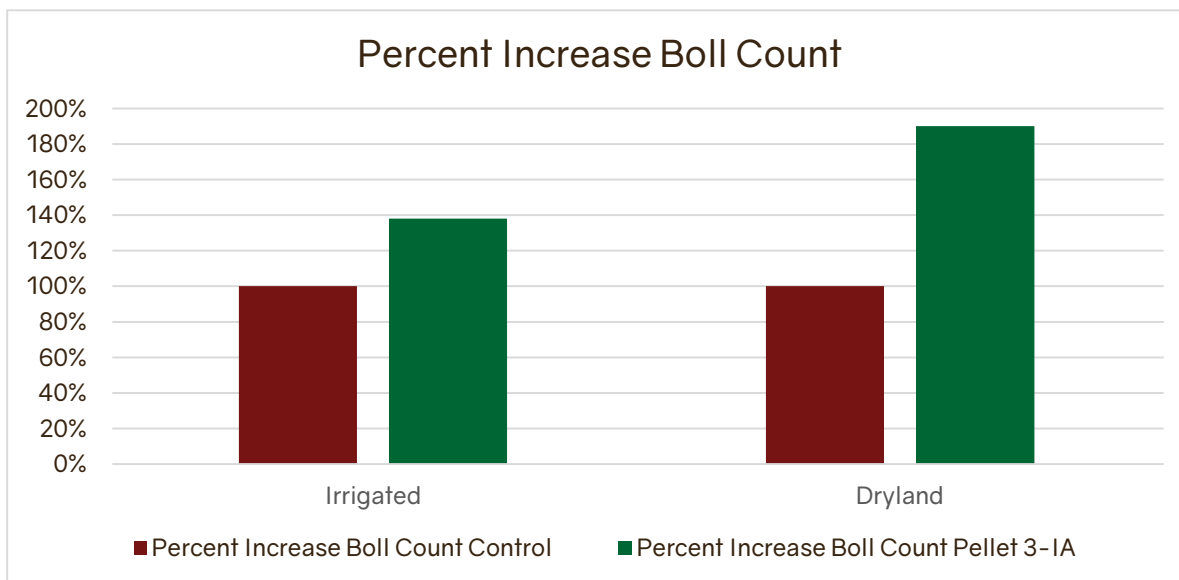
- Approximately 7.5 acres, located on the corner of a quarter section of a center pivot irrigated field, was treated with Pellet<sub>3-1A</sub>. The corners outside of the pivot arm are dryland farmed.
- The treated cotton consisted of a band of broadcasted pellets following a quarter of the outer radius of the irrigation pivot. Overlap of the treated area between the irrigated and the dryland areas provided the two experimental sets.
- Application rate: one application of 28 lb of Pellet<sub>3-1A</sub> per acre during planting



# Results

## Boll Count

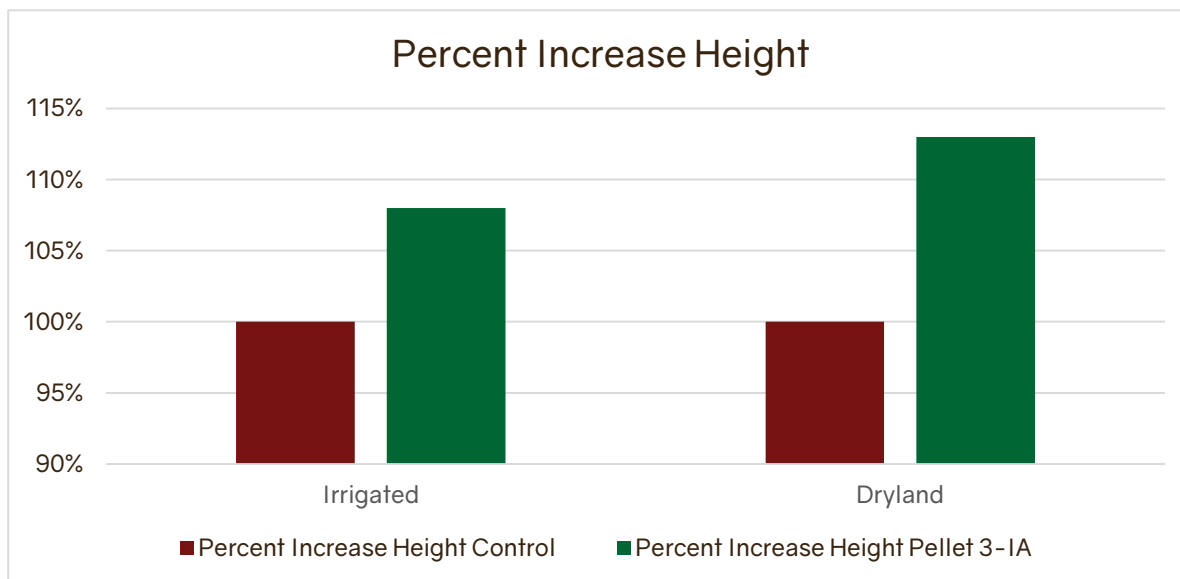
- Pellet<sub>3-IA</sub> treatment significantly increased the number of set bolls over control plants in both irrigated and dryland test areas



# Results (cont.)

## Plant Characteristics

- There was only a modest increase in treated plant heights over control plant heights
- Treated plants had more branching, more foliage and deeper color



# Economics

Gross Value of Production	Untreated	0.25% Pellet	Change
Primary product: cotton	\$538.68	\$646.42	\$107.74
Secondary product: cottonseed	\$117.00	\$140.40	\$23.40
Total, gross value of production	\$655.68	\$786.82	\$131.14

Total, operating costs	\$426.47	\$476.84	\$50.37
Total, allocated overhead	\$296.52	\$296.52	\$0.00
Total costs	\$722.99	\$773.36	\$50.37

Value of production, less total costs	(\$67.31)	\$13.46	\$80.77
Value of production, less operating costs	\$229.21	\$309.98	\$80.77

Cotton yield: pounds per planted acre	804	964.8	160.8
Price: dollars per pound	\$0.67	\$0.67	
Cottonseed yield: pounds per planted acre	1,300	1,560	260
Price: dollars per pound	\$0.09	\$0.09	
Enterprise size (planted acres)	626	626	

\* Assumes 20% yield increase