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Would reducing fertilizer reduce thrips infestations in NY?

In small-plot field trials

✓ no reduction in thrips infestations when N and P were reduced

(Leach et al. 2017, Leach 2019)



Cornell Agritech

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In small-plot field trials

✓ no reduction in thrips infestations when N and P were reduced

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✓onion yield was similar despite reduction in N and P

(Leach et al. 2017, Leach 2019)



Questions

Will reducing fertilizer reduce onion thrips populations, but not onion yield, in commercial fields?

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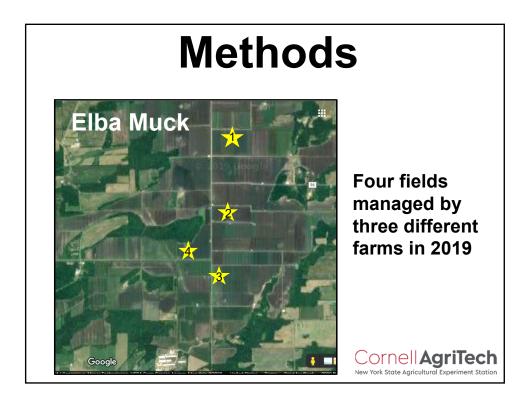
Questions

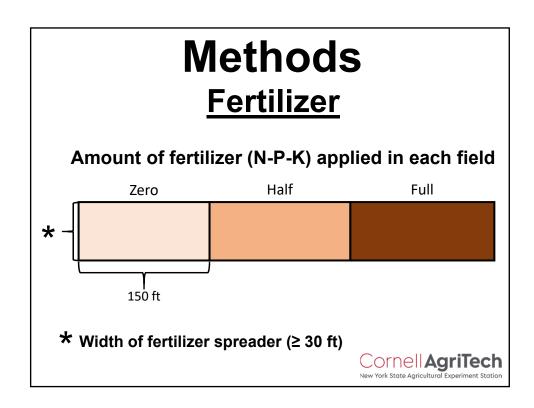
Will reducing fertilizer reduce onion thrips populations, but not onion yield, in commercial fields?

Will insecticide frequency (weekly sprays vs. action threshold-based sprays) impact onion thrips populations and onion yield?

Objective

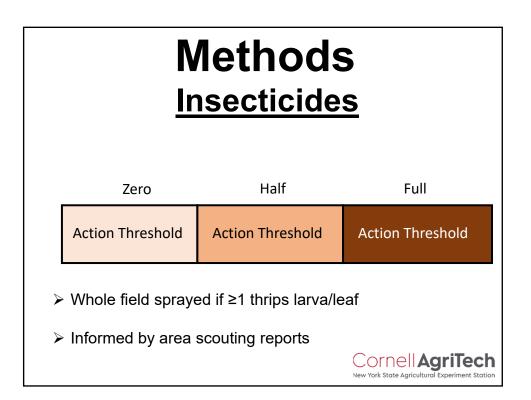
To compare onion thrips control and bulb yield in onions grown using <u>varying levels of fertilizer</u> and <u>different insecticide application</u> <u>frequency</u>

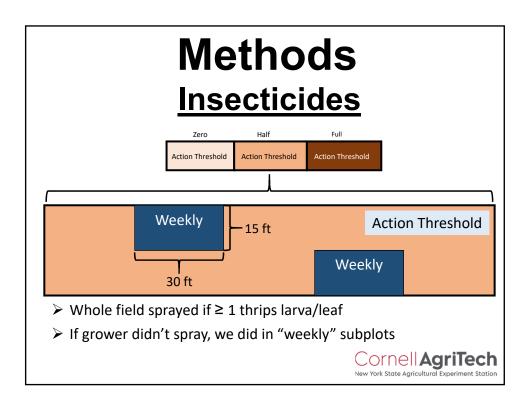


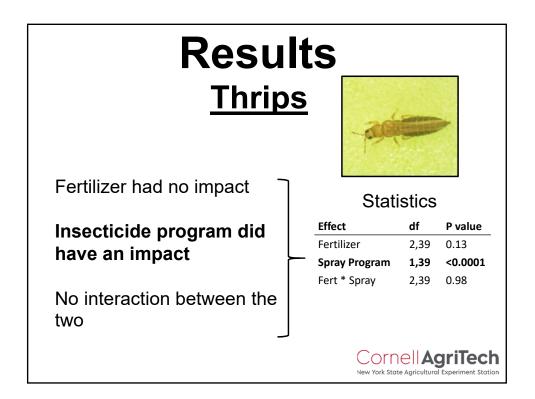


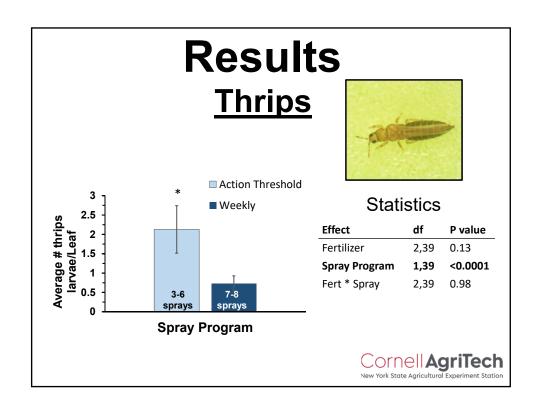
Methods <u>Fertilizer</u>										
	Nitrogen		Phosphorus		Potassium					
	Half	Full	Half	Full	Half	Full				
Fields 1 & 2										
Field 3										
Field 4										
Recommended Rate	100-125 I	b/acre	50-150	lb/acre	50-150 I	b/acre				
	20)19 Cor	nell Vege	etable Pr	oduction	Guide				

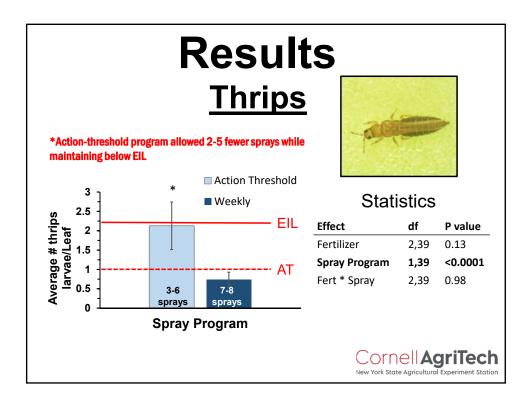
Methods <u>Fertilizer</u>										
	Nitrogen		Phosphorus		Potassium					
	Half	Full	Half	Full	Half	Full				
Fields 1 & 2	63	125	70	140	72	145				
Field 3	55	112	50	100	76	152				
Field 4	45	89	75	150	100	200				
Recommended Rate	100-125	lb/acre	50-150 lb/acre		50-150 lb/acre					
	:	2019 Cor	nell Vege	etable Pr	oduction	Guide				

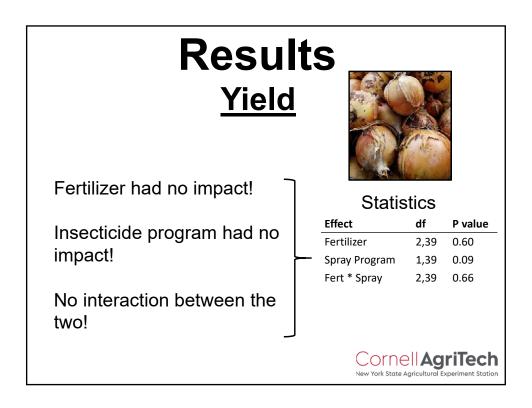


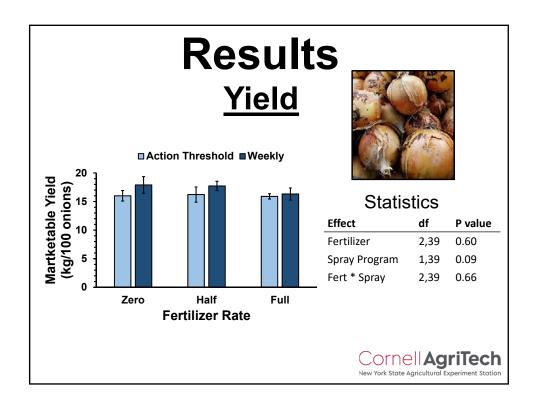


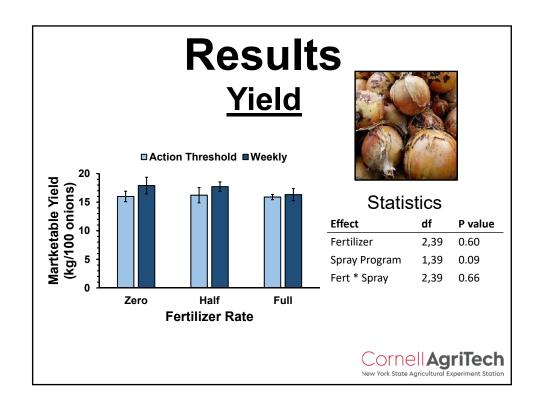


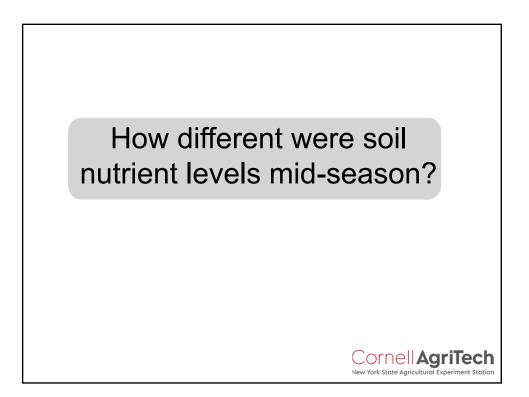


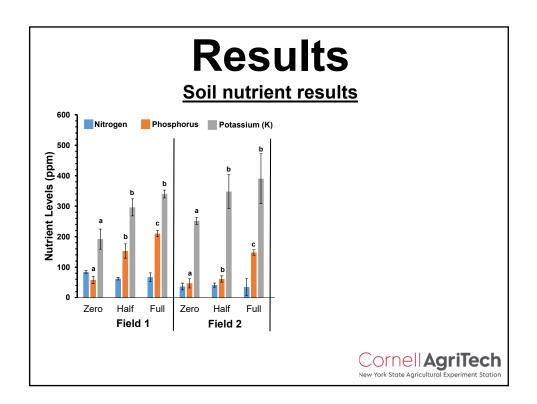


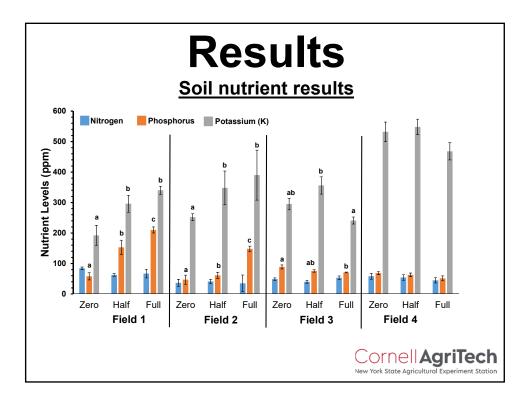












Summary

Fertilizer did not affect thrips populations or onion yield, even when none was applied

Action-threshold based insecticide programs controlled thrips at an economically acceptable level, but with 2-5 fewer sprays





