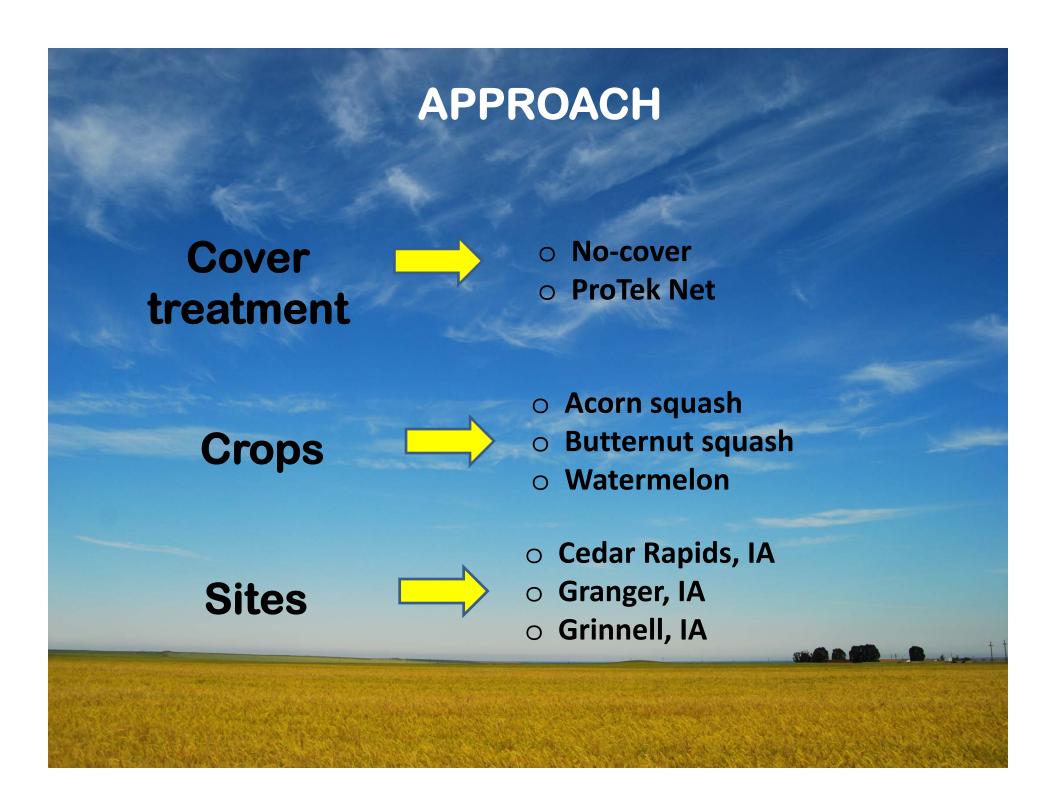




Project Objectives

- 1. Document impact of protek net material
- 2. Reduce the occurrence of heat-related stress
- 3. Provide growers with research-based information



















Average air temperature °F

Cover	June	July
No-cover	79.6	83.1
Protek net	80.5	82.3

Average light intensity (lux)

Cover	June	July
No-cover	41,020	32,542
Protek net	31,033	24,409









Acorn squash yield (Rodale)

Plots were 30 ft long, replicated three times

Cover	Marketable	
	Number	Weight (kg)
No-cover	28 ^{NS}	20.7 ^{NS}
Proteknet	42	29.3

Cover	Insect damage		Sunscald	
	Number	Weight (kg)	Number	Weight (kg)
No-cover	9 a	6.2 a	13	8.6
Proteknet	4 b	2.3 b	18	11.5

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Watermelon yield (Middle Way Farm)

Plots were 40 ft long, replicated three times

Cover	Marketable		
	Number	Weight (lb)	
No-cover	21 ^{NS}	93.2 ^{NS}	
Proteknet	23	99.4	

Cover	Insect damage		
	Number	Weight (kg)	
No-cover	6 ^{NS}	20.4 ^{NS}	
Proteknet	6	20.5	

Butternut squash yield (Wabi Sabi Farm)

Plots were 120 ft long with two replications

Cover	Marketable	
	Number	Weight (lb)
No-cover	154 b	157.9 ^{NS}
Proteknet	196 a	208.1

Cover	Insect damage		
	Number	Weight (kg)	
No-cover	25 ^{NS}	15.2 ^{NS}	
Proteknet	30	20.2	

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http://extension.iastate.edu/vegetablelab

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