



Kim Blue Field Trials: 2010

Dave Trinka
Director of Research

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Kim Blue

- **Plant growth regulator**
- **Synthetic cytokinin**
- **Cytokinins involved in cell division**
- **Label approved 5/10**

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Kim Blue

- **Enhanced fruit set of RE cvs.**
- **Maturity delay**
- **Maintain or enhance fruit size**
- **Benefit compared to ProGibb**

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Hypothesis

- **Post bloom application of Kim Blue will delay maturity of Bluecrop and Elliott**

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2010 Great Lakes Trials

- Bluecrop and Elliott
- 8 oz/acre
- 75 gal water
- Kinetic @ .1% v/v

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Kim Blue Treatments - Timing

- Control
- PF – complete petal fall
- PF10 – 10 days after PF
- PF20 – 20 days after PF

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Sites

- **Hodgman Blueberry Plantation**
- **Cornerstone Ag**
- **New Day Farms**
- **DeGrandchamp Blueberry Farm**

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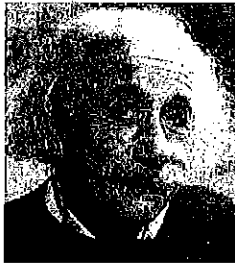
Kim Blue 2010 - Bluecrop

- **Phytotoxicity to Bluecrop fruit**
- **Symptoms appeared 3-5 weeks after application**
- **Foliage unaffected**
- **Bluecrop trial discontinued**

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Albert Einstein

**“If we knew what it was we were
doing, it would not be called
research, would it?”**



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Elliott Yield Data - Hodgman

Treatment	Lbs/bush*	Berries/cup (avg)
Control	10.7	130
PF	18.8	146
PF10	14.2	134
PF20	20.9	131

*Total of 3 harvests

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Elliott – Hodgman

- 33-95% yield increase
- No effect on fruit size
- Initial harvest delayed 7 days vs. control
- Final harvest delayed 18 days vs. control

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Elliott Yield Data – New Day

Treatment	Lbs/bush*	Berries/cup (avg)
Control	4.1	150
PF	5.0	156
PF10	5.9	138
PF20	2.9	159

*Total of 4 harvests

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Elliott – New Day

- Yield increases at PF and PF10 timings
- Initial harvest delayed 7 days; final delayed 8 days
- % crop harvested by 8/20/10
 - Control – 95% (3 harvests)
 - Treated – 82% (2 harvests)

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Elliott Yield Data – Cornerstone Ag

Treatment	Lbs/bush*	Berries/cup (avg)
Control	19.7	140
PF	18.0	138
PF10	18.5	131
PF20	15.3	128

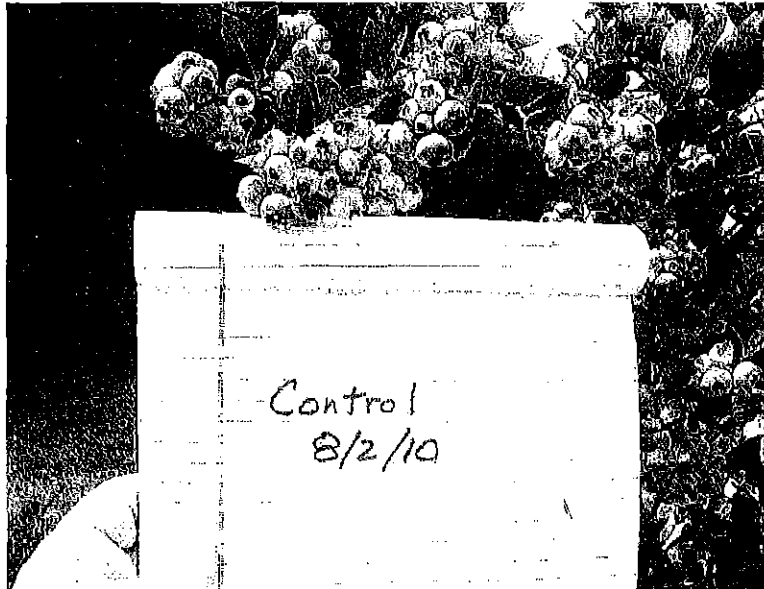
*Total of 5 harvests

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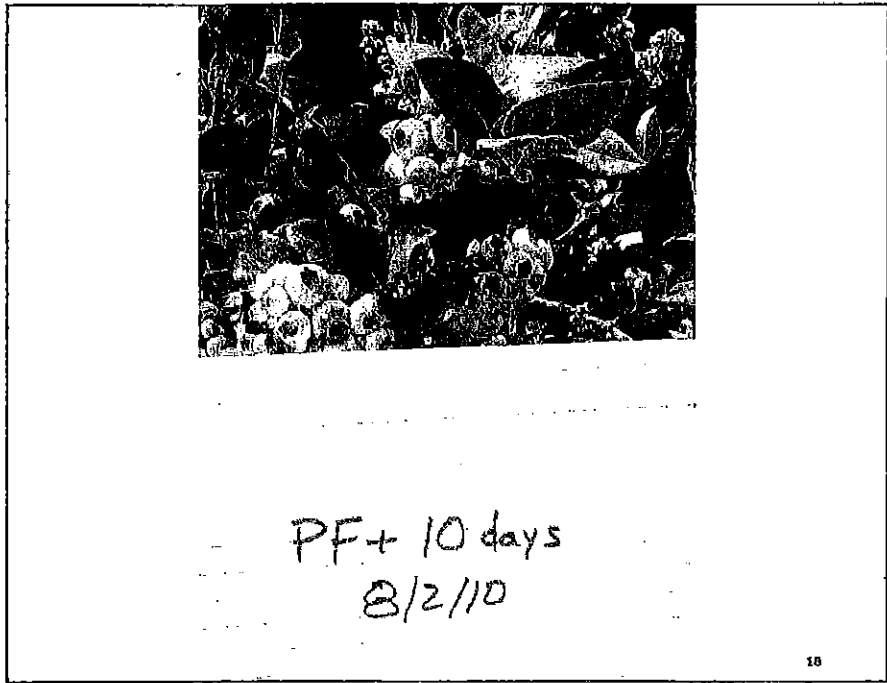
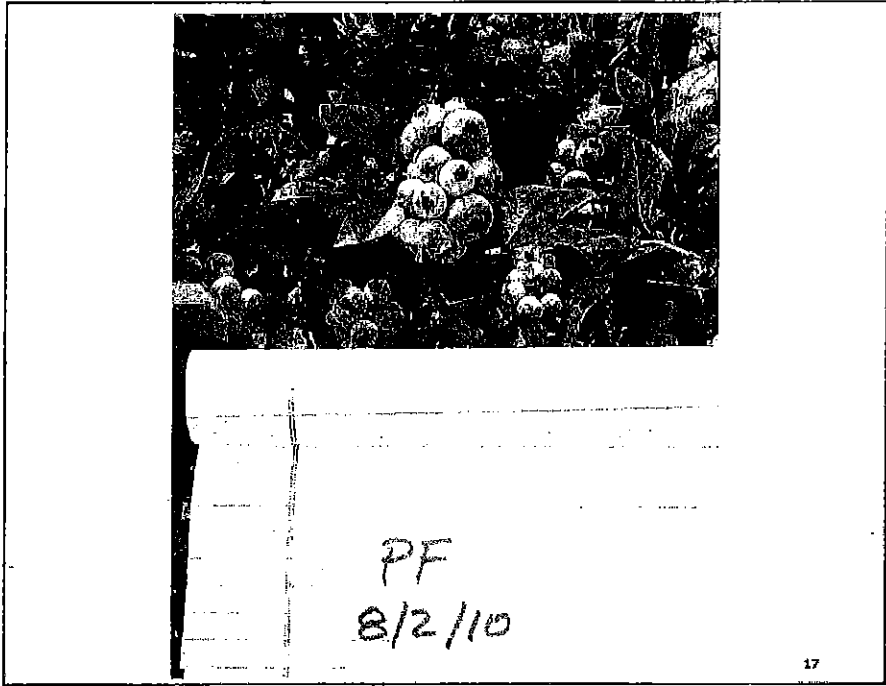
Elliott – Cornerstone Ag

- Control out-yielded treated
- No effect on fruit size
- Initial harvest delayed 10 days; final 13 days
- % crop harvested by 8/23
 - Control: 82% (3 harvests)
 - Treated: 58% (2 harvests)

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PF + 20 days
8/2/10

Economics – New Day

Control				PF10			
Date	lbs/bush	\$/lb	\$ Value	Date	lbs/bush	\$/lb	\$ Value
8/3	2.0	1.72	3.44	8/10	2.6	1.96	5.10
8/13	1.4	1.96	2.74	8/20	1.9	2.38	4.52
8/20	.5	2.38	1.19	8/31	1.2	3.70	4.44
8/31	.2	3.70	.74	9/8	.2	4.82	.96
	4.1		\$8.11		5.9		\$15.02

\$1.98/lb

\$2.54/lb

Economics – Cornerstone Ag

Control				PF10			
Date	lbs/bush	\$/lb	\$ Value	Date	lbs/bush	\$/lb	\$ Value
8/2	3.4	1.72	5.85	8/12	3.4	1.96	6.66
8/12	7.2	1.96	14.11	8/23	6.5	3.03	19.70
8/23	5.7	3.03	17.27	9/1	5.1	3.70	18.87
9/1	2.4	3.70	8.88	9/8	2.1	4.82	10.12
9/8	1.0	4.82	4.82	9/21	1.4	5.78	8.09
		19.7	\$50.93			18.5	\$63.44

\$2.58/lb

\$3.43/lb

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Summary

- **Kim Blue applied after petal fall caused a delay in Elliott fruit maturity**
- **Initial harvest delayed 7-10 days**
- **Final harvest delayed 8-18 days**
- **Maturity delay not influenced by crop load**
- **Inc. fruit: leaf ratio?**

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Summary

- **Kim Blue-treated Elliott had higher yields than control in most, but not all trials**
- **Berry size was not affected**
- **Berry size not responsible for yield differences**
- **Kim Blue application enhanced Elliott fresh returns**

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Considerations for 2011

- **Proceed with caution and on a limited area**
- **Use 50 GPA minimum**
- **Do not use a surfactant**
- **Single application: 8 oz/A, 10-15 days after petal fall**
- **Split application: 4 oz/A at 75% bloom plus 4 oz/A, 14 days later**

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