

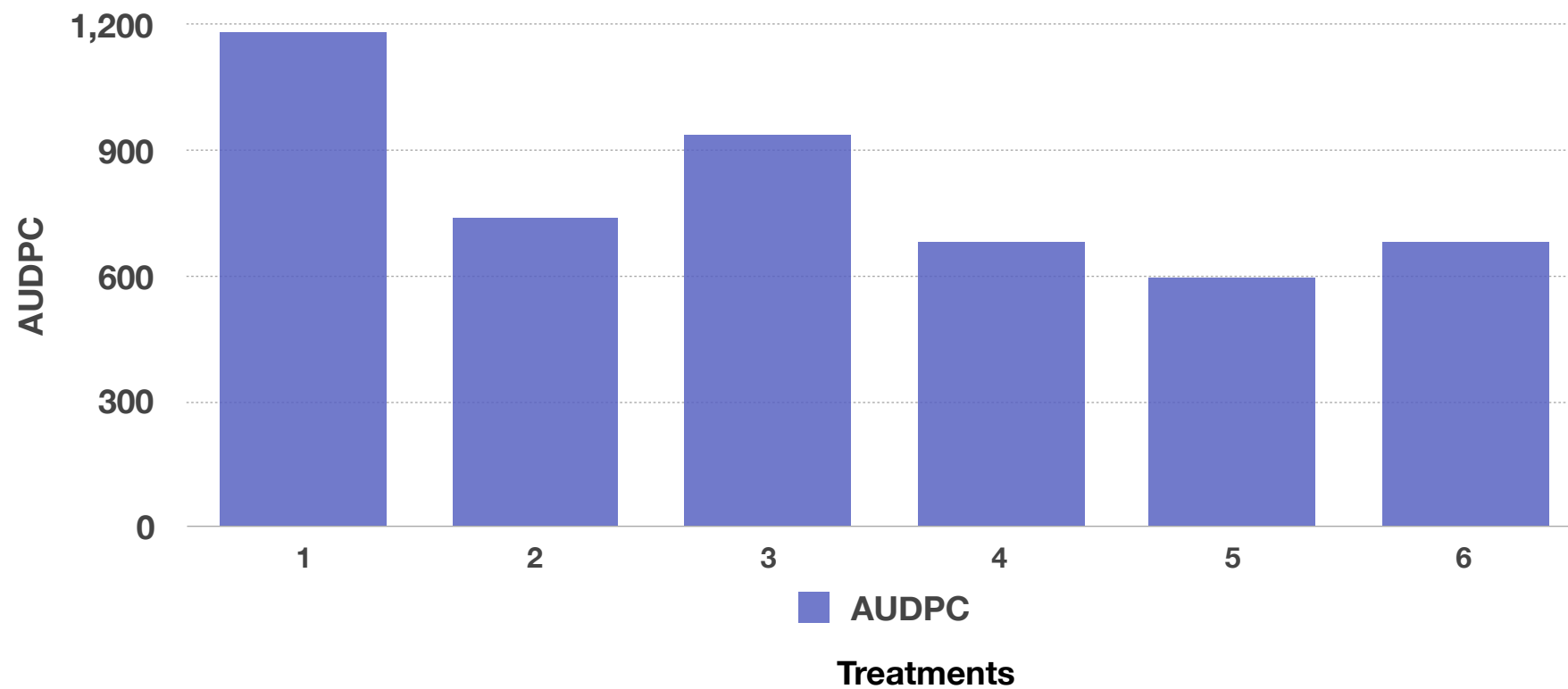
2010-2018 Watermelon Gummy stem blight research trial data. University of Florida, NFREC, Quincy, FL
Research conducted by: Susannah Da Silva, Maxwell Sawyer, Josh Freeman, Mathews Paret

Disease severity (AUDPC) on watermelon - Spring 2018

TREATMENT (RATE/A)		AUDPC	
1	Control (Untreated) water	1,184	a
2	Bravo (2 pt) (1-3 w) followed by Inspire Super (16 fl oz) (4,5,7 w) alternated with Folicur (8 fl oz) (6 w)	740	bc
3	Bravo (2 pt) (1-3 w) followed by Luna Experience (10 fl oz) (4,5,7 w) alternated with Folicur (8 fl oz) (6 w)	936	b
4	Bravo (2 pt) (1-3 w) followed by Miravis Prime (9.1 fl oz) (4,5,7 w) alternated with Folicur (8 fl oz) (6 w)	684	c
5	Bravo (2 pt) (1-3 w) followed by Miravis Prime (11.4 fl oz) (4,5,7 w) alternated with Folicur (8 fl oz) (6 w)	596	c
6	Bravo (2 pt) (1-3 w) followed by Aprovia Top (13.5 fl oz) (4,5,7 w) alternated with Folicur (8 fl oz) (6 w)	684	c

AUDPC: Area Under Disease Progress Curve. Higher the AUDPC, higher the disease severity over the period of the trial.

Different letters next to the treatments means that they are statistically different ($P > F = 0.05$; LSD)



Variety: Exclamation, Pollenizer: Sp-7
 Plot length: 40 feet
 Plot width: 8 feet
 Distance between plots: 15 feet
 Distance between rows: 5 feet
 Number of plants per plot: 15 + 4 pollenizers
 Plant spacing: 3 feet
 Number of reps: 4
 Transplanted: 4/5/18
 Inoculation: Natural
 Fungicide application dates: 4/19, 4/24, 4/30, 5/4, 5/9, 5/14, 5/18
 Disease assessment dates: 04/27, 05/07, 05/17, 05/30, 06/04

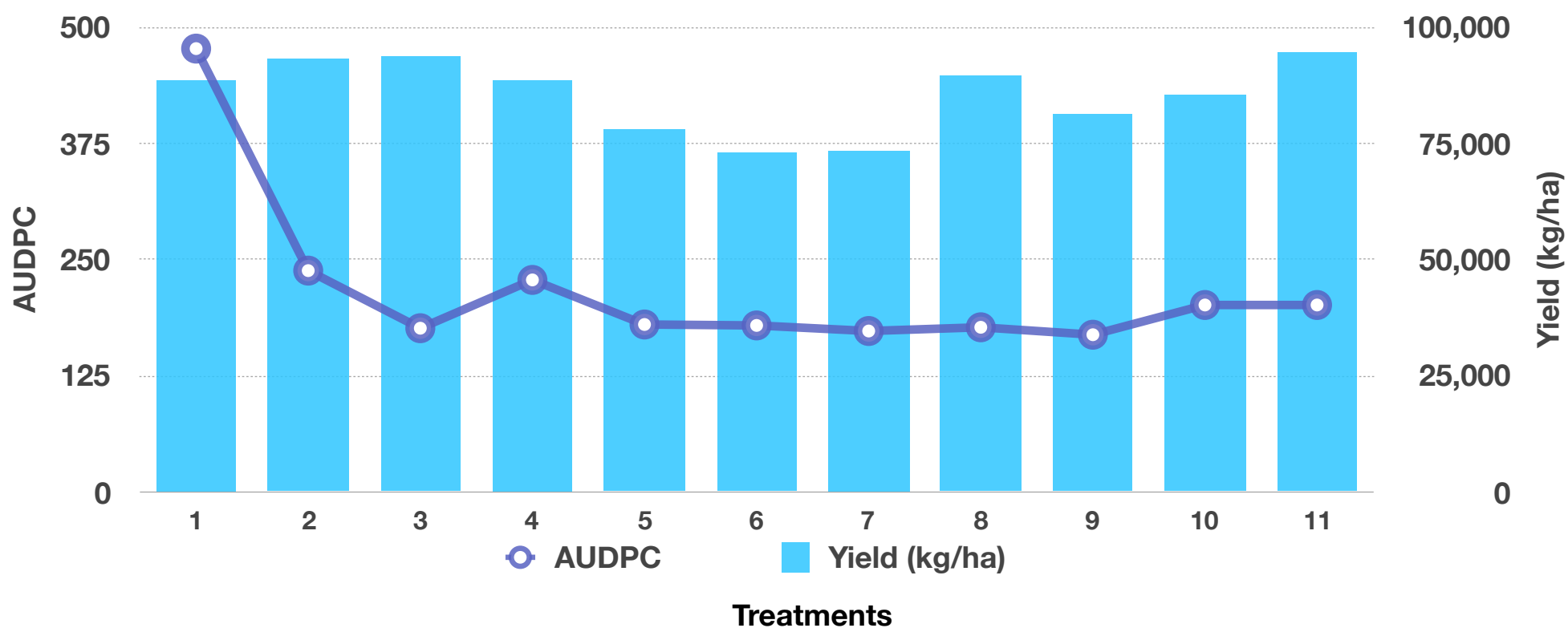
2010-2016 Watermelon Gummy stem blight research trial data. University of Florida, NFREC, Quincy, FL
Research conducted by: Laura Ritchie, Drey Clark, Josh Freeman, Mathews Paret

Disease severity (AUDPC) and yield of watermelon - Spring 2016

TREATMENT (RATE/A)		AUDPC	YIELD (KG/HA)
1	Control	477 a	88,594 a
2	Bravo 2 pt (1-6 wk)	238 b	92,996 a
3	Aprovia Top 3.6F 10 fl oz (1-6 wk)	176 b	93,617 a
4	Tebuzol 3.6 F 8 fl oz (1-6 wk)	228 b	88,509 a
5	Ph-D 11.3WDG 6.2 oz (1-6 wk)	180 b	78,055 a
6	Ph-D 11.3WDG 6.2 oz + Tebuzol 8 fl oz (1-6 wk)	179 b	73,124 a
7	F1756aa 32 fl oz (1-6 wk)	173 b	73,363 a
8	Ph-D 11.3WDG 6.2 oz + F1756aa 32 fl oz (1-6 wk)	177 b	89,699 a
9	Ph-D 11.3WDG 6.2 oz + F1756aa 22 fl oz (1-6 wk)	169 b	80,990 a
10	MgO 200 ppm (1-6 wk)	201 b	85,479 a
11	MgO 500 ppm (1-6 wk)	201 b	94,396 a

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Variety: Starbrite
 Plot length: 30 feet
 Plot width: 8 feet
 Distance between plots: 15 feet
 Distance between rows: 5 feet
 Number of plants per plot: 10
 Plant spacing: 36 inches
 Number of reps: 4
 Transplanted: 04/06/16
 Inoculation: Natural
 Fungicide application dates:
 05/03, 05/10, 05/17, 05/24,
 05/31, 06/07
 Disease assessment dates:
 (Obs. 04/13, 04/18, 04/22,
 04/26), 04/29, 05/06, 05/13,
 05/20, 05/27, 06/03, 06/10,
 06/16
 Harvest date: 06/10, 06/24,
 06/29

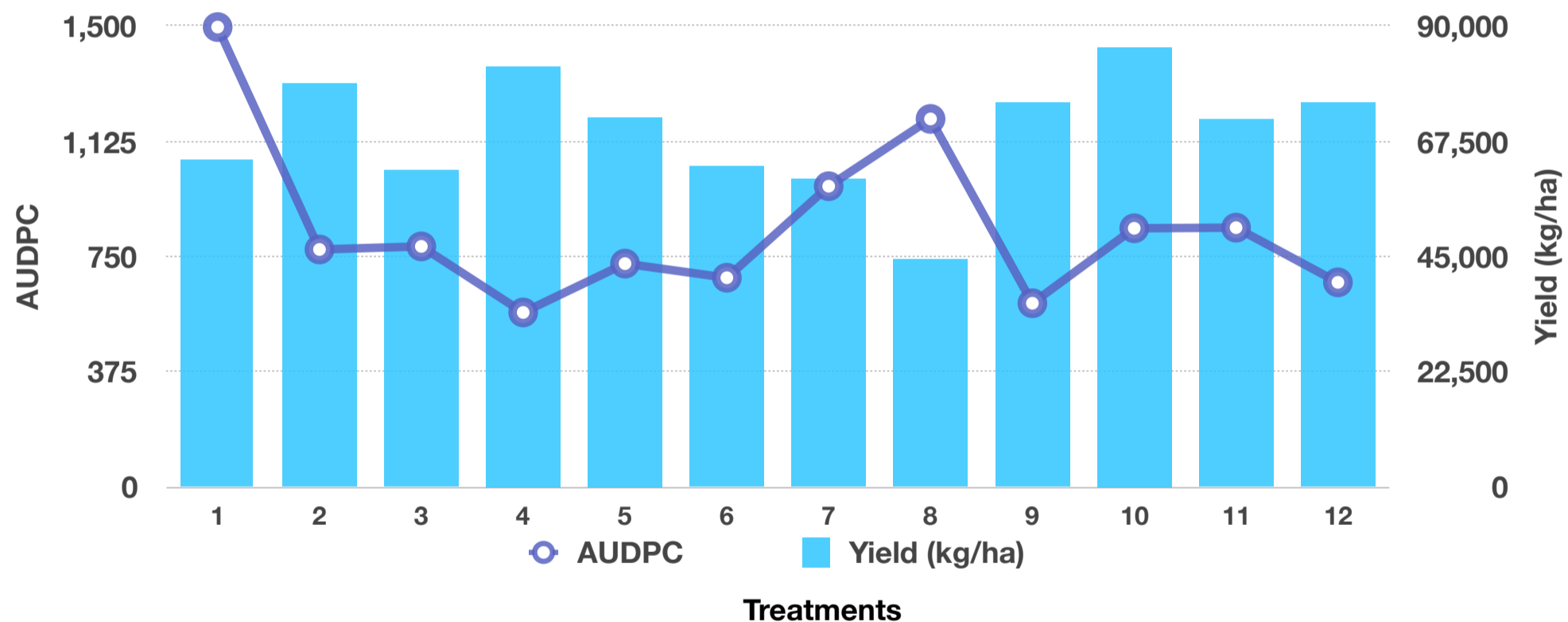
2010-2016 Watermelon Gummy stem blight research trial data. University of Florida, NFREC, Quincy, FL
Research conducted by: Laura Ritchie, Drey Clark, Josh Freeman, Mathews Paret

Disease severity (AUDPC) and yield of watermelon - Spring 2015

TREATMENT (RATE/A)		AUDPC	YIELD (KG/HA)
1	Control (Untreated)	1,497 a	63,776 ab
2	Actinovate AG (6 oz)	773 cd	78,710 ab
3	Actinovate AG (6 oz) + Actigard (0.5 oz)	783 cd	61,991 ab
4	Topguard EQ (5 fl oz) (1-6 wk)	568 d	82,074 ab
5	Topguard EQ (8 fl oz) (1-6 wk)	727 cd	72,332 ab
6	Topguard EQ (16 fl oz) (1-6 wk)	681 cd	62,796 ab
7	Equation (11 fl oz) (1-6 wk)	979 bc	60,293 ab
8	Equation (15.5 fl oz) (1-6 wk)	1,198 ab	44,531 b
9	Quadris Top (12 fl oz) (1-6 wk)	598 cd	74,977 ab
10	Bravo WeatherStik (2 pt) (1-3 wk) alt Oso (6.5 fl oz) (4-6 wk)	842 b-d	86,014 a
11	Bravo WeatherStik (2 pt) (1-3 wk) alt Oso (6.5 fl oz) (4-6wk) alt Tebustar 3.6L (8 fl oz) (7-8 wk)	844 b-d	71,624 ab
12	Bravo WeatherStik (2 pt) (1-3 wk) alt Tebustar 3.6L (8 fl oz) (4-5wk) alt Inspire Super (20 floz) (6-7 wk)	666 cd	75,227 ab

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Variety: Starbrite
 Plot length: 30 feet
 Plot width: 8 feet
 Distance between plots: 15 feet
 Distance between rows: 5 feet
 Number of plants per plot: 10
 Plant spacing: 36 inches
 Number of reps: 4
 Transplanted: 03/30/15
 Inoculation: Natural
 Fungicide application dates:
 04/21, 04/27, 05/5, 05/11, 05/18,
 05/26, 06/1, 06/8
 Disease assessment dates:
 (04/11 obs), 04/21, 04/27, 05/04,
 05/11, 05/18, 05/26, 06/01,
 06/08, 06/15
 Harvest date: 06/29

Phytotoxicity

TRT	RATING	SCALE	
1	0	0	no symptoms of phytotoxicity
2	0	1	mild leaf chlorosis and/or mild burning (generally around edges) of leaves; plot overall looks fair
3	0	2	moderate leaf chlorosis and/or moderate burning of leaves (edges or more) of leaves; plot showing signs of stress
4	2	3	strong leaf chlorosis and/or burning of leaves; plot is stressed
5	2.75	4	plant death due to phytotoxicity
6	2.5		
7	0		
8	3		
9	0		
10	0		
11	0		
12	0		

2010-2016 Watermelon Gummy stem blight research trial data. University of Florida, NFREC, Quincy, FL

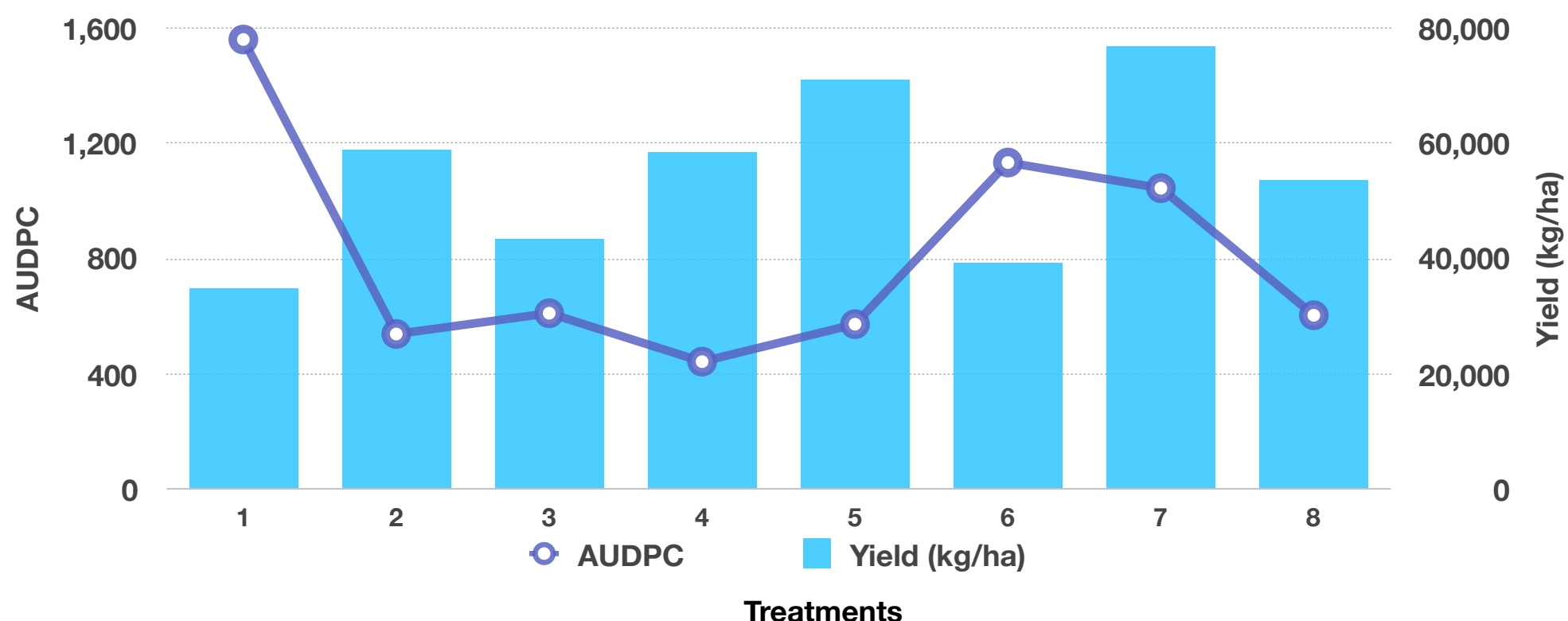
Research conducted by: Laura Ritchie, Drey Clark, Josh Freeman, Mathews Paret

Disease severity (AUDPC) and yield of watermelon - Spring 2014

TREATMENT (RATE/A)		AUDPC	YIELD (KG/HA)
1	Control (Untreated)	1,561 a	35,004 b
2	Topguard EQ (7 fl oz) (1-6 wk)	539 c	58,891 ab
3	Topguard EQ (10 fl oz) (1-6 wk)	611 c	43,287 ab
4	Topguard EQ (14 fl oz) (1-6 wk)	443 c	58,329 ab
5	Topguard EQ (14 fl oz) (1,3,5 wk) alt Koverall (3 lb) (2,4,6 wk)	573 c	70,940 a
6	Koverall (3 lb) (1-6 wk)	1,134 ab	39,341 b
7	Equation (13 oz) (1-6 wk)	1,045 b	76,984 a
8	Bravo (2 pt) (1-6 wk)	604 c	53,836 ab

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Variety: Starbrite
 Plot length: 30 feet
 Plot width: 8 feet
 Distance between plots: 15 feet
 Distance between rows: 5 feet
 Number of plants per plot: 10
 Plant spacing: 36 inches
 Number of reps: 4
 Inoculation: Natural
 Fungicide application dates: 5/7, 5/14, 5/21, 5/28, 6/3, 6/10
 Diseases assessment dates: 5/5, 5/12, 5/19, 5/27, 6/2, 6/9, 6/16, 6/23

Phytotoxicity

TRT	RATING
1	0
2	1.75
3	3.0
4	3.5
5	3.75
6	0
7	0
8	0
9	0
10	0
11	0
12	0

SCALE

0	no symptoms of phytotoxicity
1	mild leaf chlorosis and/or mild burning (generally around edges) of leaves; plot overall looks fair
2	moderate leaf chlorosis and/or moderate burning of leaves (edges or more) of leaves; plot showing signs of stress
3	strong leaf chlorosis and/or burning of leaves; plot is stressed
4	plant death due to phytotoxicity

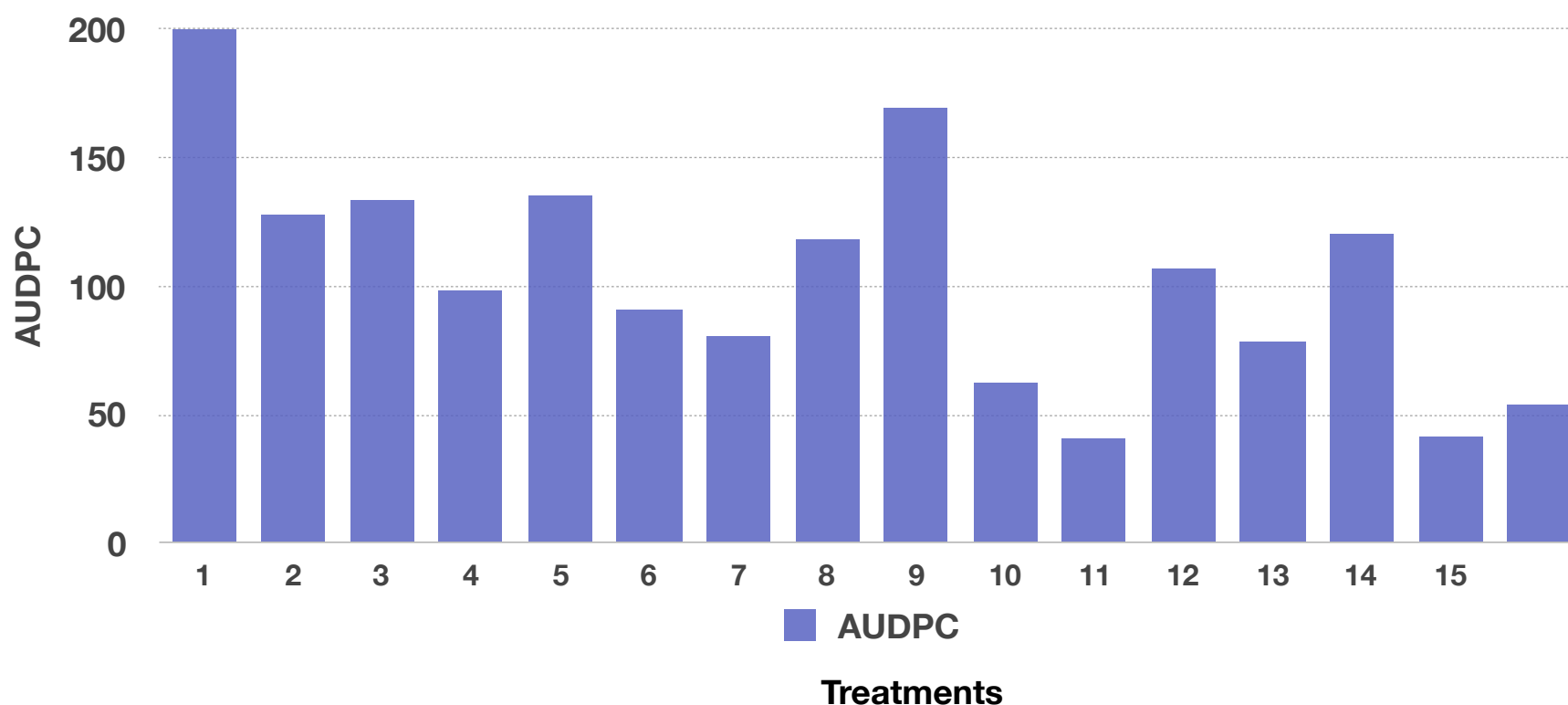
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Disease severity (AUDPC) on watermelon - Spring 2013

TREATMENT (RATE/A)		AUDPC
1	Control (Untreated) No water	200 a
2	NAI-5750 (2,500 ppm) (drip) (1-6 wk)	128 a-c
3	NAI-5750 (5,000 ppm) (drip) (1-6 wk)	133 a-c
4	NAI-5750 (2,500 ppm) (foliar) (1-6 wk)	98 bc
5	NAI-5750 (5,000 ppm) (foliar) (1-6 wk)	135 a-c
6	Bravo (2 pt) (1-6 wk)	91 bc
7	Timorex Gold (0.4 l) (1,3,5 wk) alt Bravo (2 pt) (2,4,6 wk)	80 bc
8	Timorex Gold (0.4 l) + Bravo (2 pt) (1-6 wk)	118 a-c
9	Timorex Gold (0.4 l) (1-6 wk)	169 ab
10	Difenoconazole + Tea Tree Oil (10 fl oz) (1-6 wk)	62 c
11	Difenoconazole + Tea Tree Oil (20 fl oz) (1-6 wk)	41 c
12	Control (untreated) Water	107 bc
13	Luna Experience (10 fl oz) (1-6 wk)	79 bc
14	Oxidate 2.0 (1% v/v) + Yucca Ag Aide (0.125 % v/v) (every 5 days)	120 a-c
15	Bravo (2 pt) (1-2 wk) alt Inspire Super (20 fl oz) (3-4 wk) alt Topsin (10 fl oz) (5 wk)	42 c
16	Quintec (6 fl oz) (1,3,5 wk) alt Rally (5 oz/A) (2,4,6 wk)	54 c

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Variety: Starbrite
 Plot length: 40 feet
 Plot width: 8 feet
 Distance between plots: 15 feet
 Distance between rows: 5 feet
 Number of plants per plot: 12
 Plant spacing: 3 feet
 Number of reps: 4
 Transplanted: 03/20/13
 Inoculation: Natural
 Fungicide application dates:
 04/18, 04/26, 05/02, 05/09,
 05/16, 05/23, 05/30
 Disease assessment dates:
 04/17, 04/24, 05/01, 05/08,
 05/15, 05/22, 05/29, 06/05

2010-2016 Watermelon Gummy stem blight research trial data. University of Florida, NFREC, Quincy, FL

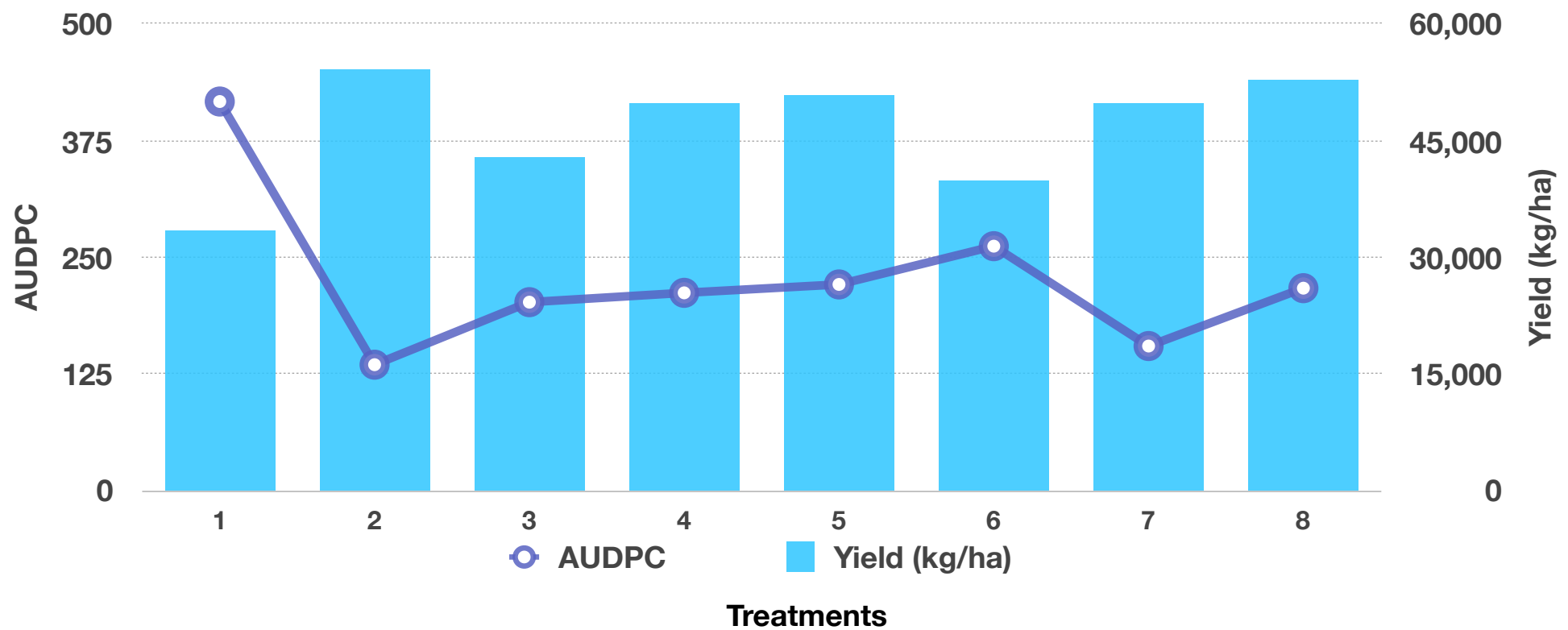
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Disease severity (AUDPC) and yield of watermelon - Spring 2012

TREATMENT (RATE/A)		AUDPC	YIELD (KG/HA)
1	Control (Untreated)	417 a	33,568 c
2	Luna Experience (10 fl oz) (1-6 wk)	135 c	54,062 a
3	Tebuconazole (8 oz/A) (1-6 wk)	202 bc	42,879 a-c
4	Pristine (15 oz/A) (1-6 wk)	212 bc	49,733 ab
5	Fontelis (1 pt) (1-6 wk)	221 bc	50,896 ab
6	Bravo (2 pt) (1-6 wk)	262 b	39,760 bc
7	Luna Experience (10 fl oz) (1,3,5 wk) alt Inspire Super (20 fl oz) (2,4,6 wk)	155 c	49,837 ab
8	Bravo (2 pt) (1,2,3 wk) alt Inspire Super - 20 fl oz (4,5 wk) alt Topsin (10 fl oz) (6 wk)	217 bc	52,739 a

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Variety: Starbrite
 Plot length: 30 feet
 Plot width: 8 feet
 Distance between plots: 15 feet
 Distance between rows: 5 feet
 Number of plants per plot: 10
 Plant spacing: 36 inches
 Number of reps: 4
 Inoculation: Natural
 Fungicide application dates:
 4/18, 4/25, 5/2, 5/7, 5/17, 5/23
 Diseases assessment dates:
 4/23, 5/3, 5/11, 5/16, 5/22, 5/30

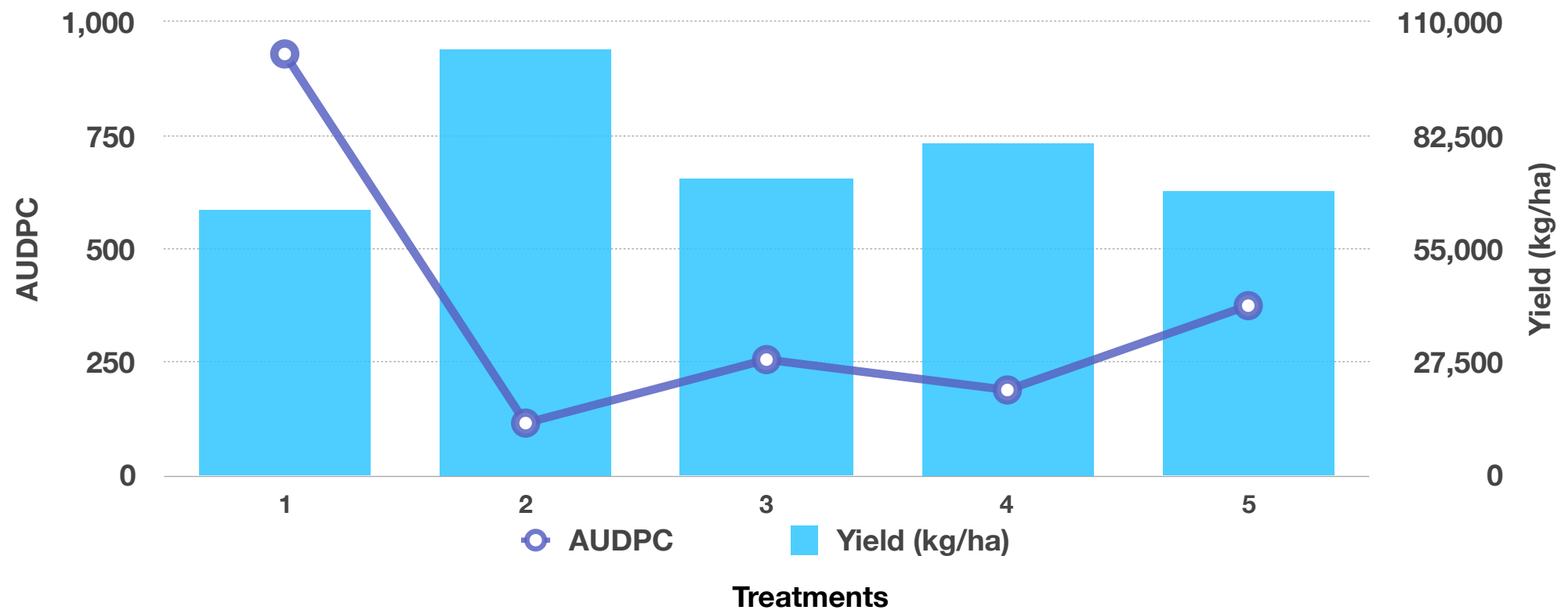
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Disease severity (AUDPC) and yield of watermelon - Spring 2011

TREATMENT (RATE/A)		AUDPC	YIELD (KG/HA)
1	Control (Untreated)	930 a	64,289 c
2	Luna Experience (10 fl oz) (1-6 wk)	116 d	103,523 a
3	Luna Experience (10 fl oz) (1,3,5 wk)	256 c	72,209 bc
4	Luna Experience (10 fl oz) (1,3,5 wk) alt Inspire Super (20 fl oz) (2,4,6 wk)	189 cd	80,751 b
5	Echo (2 pt) (1-6 wk)	375 b	69,121 bc

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Variety: Starbrite
 Plot length: 30 feet
 Plot width: 8 feet
 Distance between plots: 15 feet
 Distance between rows: 5 feet
 Number of plants per plot: 12
 Plant spacing: 3 feet
 Number of reps: 4
 Inoculation: Natural
 Transplanted: 03/27/11
 Fungicide application dates:
 4/27, 5/4, 5/11, 5/18, 5/25, 6/1
 Diseases assessment dates:
 4/25, 5/2, 5/9, 5/16, 5/23, 6/3,
 6/10

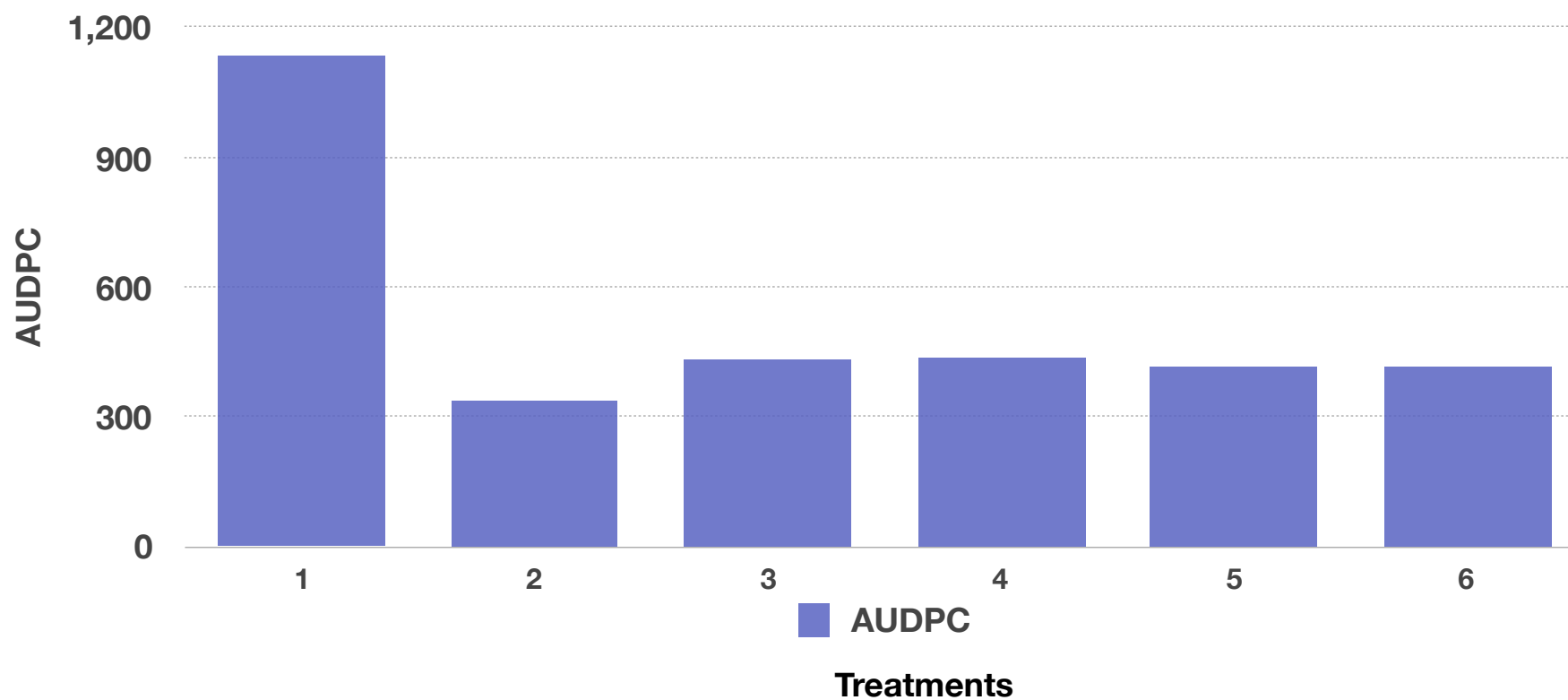
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Disease severity (AUDPC) on watermelon - Fall 2010

TREATMENT (RATE/A)		AUDPC
1	Control (Untreated)	1,134 a
2	Bravo (2 pt) (1-3 wk) alt Inspire Super (20 oz) (4-5 wk) alt Topsin M (0.5 lb) (6 wk)	336 b
3	Bravo (2 pt) (1-3 wk) alt Inspire Super (14 oz) (4-5 wk) alt Topsin M (0.5 lb) (6 wk)	430 b
4	Bravo (2 pt) (1-3 wk) alt Revus Top (7 oz) (4-5 wk) alt Topsin M (0.5 lb) (6 wk)	436 b
5	Bravo (2 pt) + Actigard (0.33 oz) (1-3 wk) alt Inspire Super (20 oz) + Actigard (0.33 oz) (4-5 wk) alt Topsin (0.5 lb) + Actigard (0.33 oz) (6 wk)	417 b
6	Bravo (2 pt) + Pristine (18.5 oz) (1,3,5 wk) alt Dithane (2 lb) + Tebuzol (8 oz) (2,4 wk) alt Topsin M (0.5 lb) (6 wk)	413 b

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Variety: Tri-X-212
Pollenizer: Sp-1
Plot length: 60 feet
Plot width: 8 feet
Distance between plots: 15 feet
Distance between rows: 5 feet
Number of plants per plot: 15
Plant spacing: 3 feet
Number of reps: 4
Inoculation: Natural
Transplanted: 08/23/10