

2014-2015 Watermelon Angular leaf spot research trial data. University of Florida, NFREC, Quincy, FL
Research conducted by: Eric Newberry, Laura Ritchie, Binoy Babu, Drey Clark, Josh Freeman and Mathews Paret

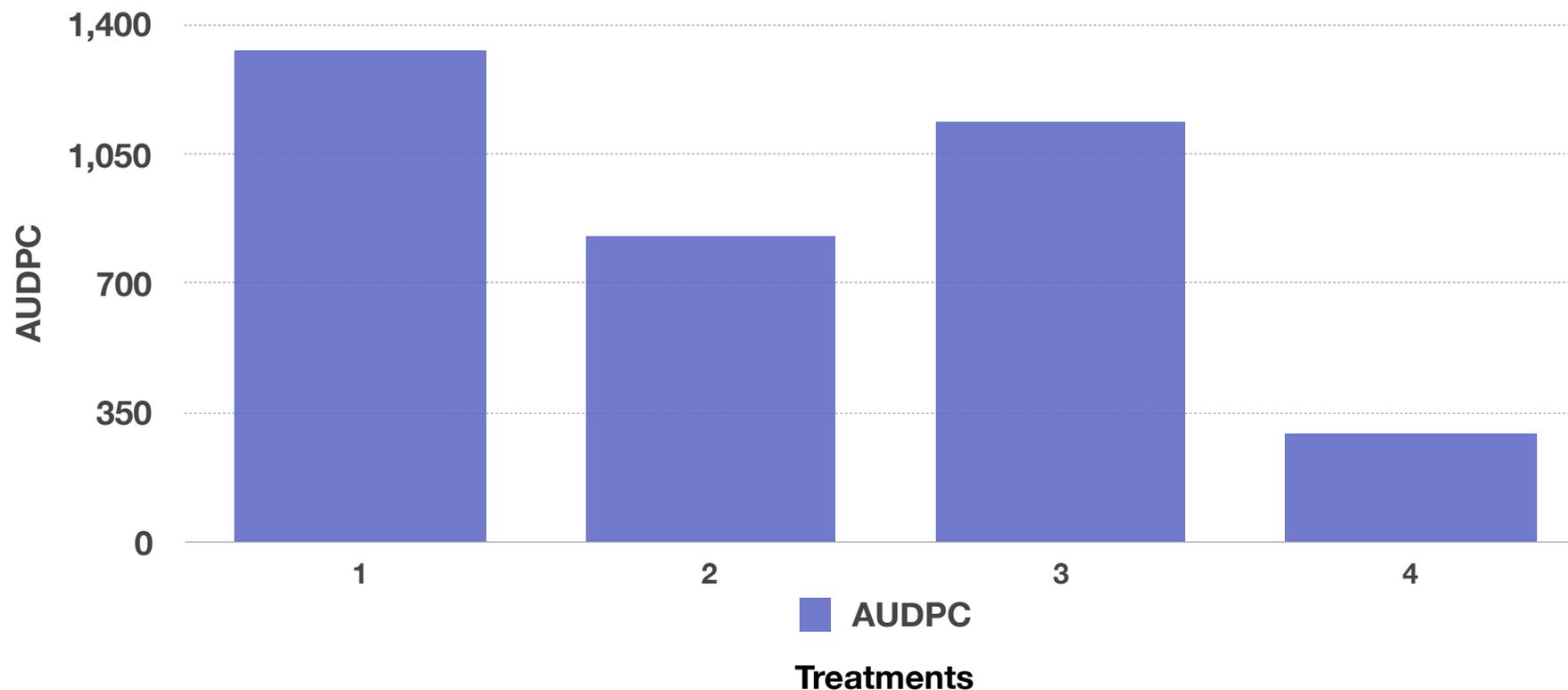
Disease severity (AUDPC) and yield of watermelon - Spring 2015

PLANTS WERE INOCULATED WITH THE PATHOGEN BEFORE FIELD TRANSPLANTING (MIMICS USE OF CONTAMINATED TRANSPLANTS)

TREATMENT (RATE/A)		AUDPC
1	Control (Untreated)	1,328 a
2	Actigard (0.75 oz) foliar (1-3 wk)	828 b
3	Actigard (0.75 oz) drip (1-3 wk)	1,136 a
4	Mankocide (2 lb) (1-3 wk)	294 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 (Pr>F=0.05; LSD)



Variety: Troubadour (Triploid), Pollen Pro (Diploid Pollenizer)
 Plot length: 45 feet
 Plot width: 8 feet
 Distance between plots: 6 feet
 Distance between rows: 5 feet
 Number of plants per plot: 10 (Triploid), and 3 (Pollenizer)
 Plant spacing: 36 inches
 Number of reps: 4
 Transplanted: 03/17/15
 Inoculation: 03/10/15
 Fungicide application dates: 03/26, 04/01, 04/08
 Disease assessment dates: 03/31, 04/07, 04/14, 04/20, 05/01
 Harvest date: 06/17 (not significant and hence not shown)

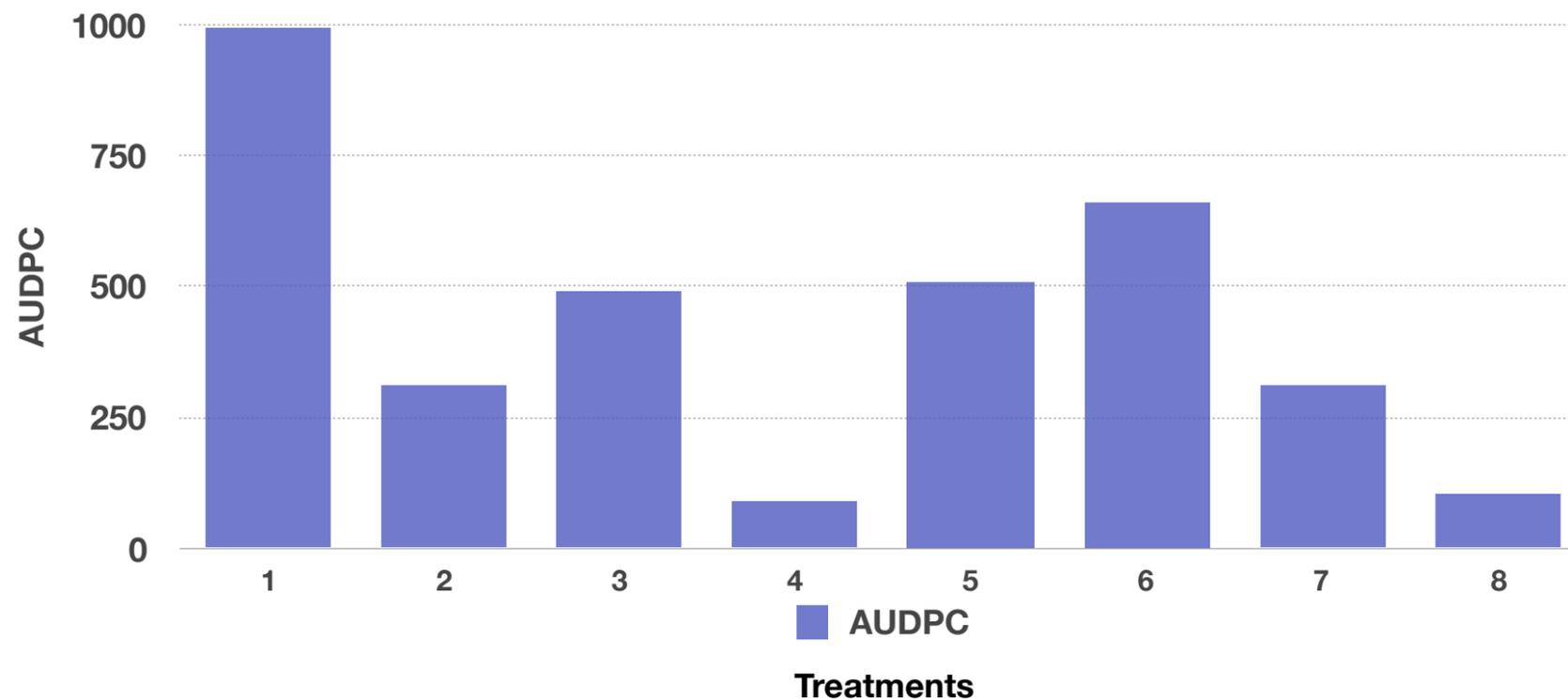
Disease severity (AUDPC) and yield of watermelon - Spring 2015

PLANTS WERE CLEAN AT FIELD TRANSPLANTING, BUT WERE INOCULATED IN THE FIELD AFTER FIRST BACTERICIDE APPLICATION (MIMICS FIELD INTRODUCTION OF THE PATHOGEN)

TREATMENT (RATE/A)		AUDPC
1	Control (Untreated)	991 a
2	Actigard (0.75 oz) foliar (1-3 wk)	309 cd
3	Actigard (0.75 oz) drip (1-3 wk)	488 bc
4	Mankocide (2 lb) foliar (1-3 wk)	89 d
5	Actigard (0.75 oz) drip + Actinovate AG (12 oz) foliar (1-3 wk)	507 bc
6	Actigard (0.75 oz) drip + Serenade Optimum (0.5 lb) foliar (1-3 wk)	660 bc
7	Actigard (0.75 oz) drip + Actinovate AG (12 oz) foliar alt Actigard (0.75 oz) drip + Serenade Optimum (0.5 lb) foliar (1-3 wk)	309 cd
8	Control (Untreated uninoculated)	101 d

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 Plot length: 45 feet
 Plot width: 8 feet
 Distance between plots: 6 feet
 Distance between rows: 5 feet
 Number of plants per plot: 10 (Triploid), and 3 (Pollenizer)
 Plant spacing: 36 inches
 Number of reps: 4
 Transplanted: 03/17/15
 Inoculation: 03/30/15
 Fungicide application dates: 03/26, 04/01, 04/08
 Disease assessment dates: 03/31, 04/07, 04/14, 04/20, 05/01
 Harvest date: 06/17 (not significant and hence not shown)

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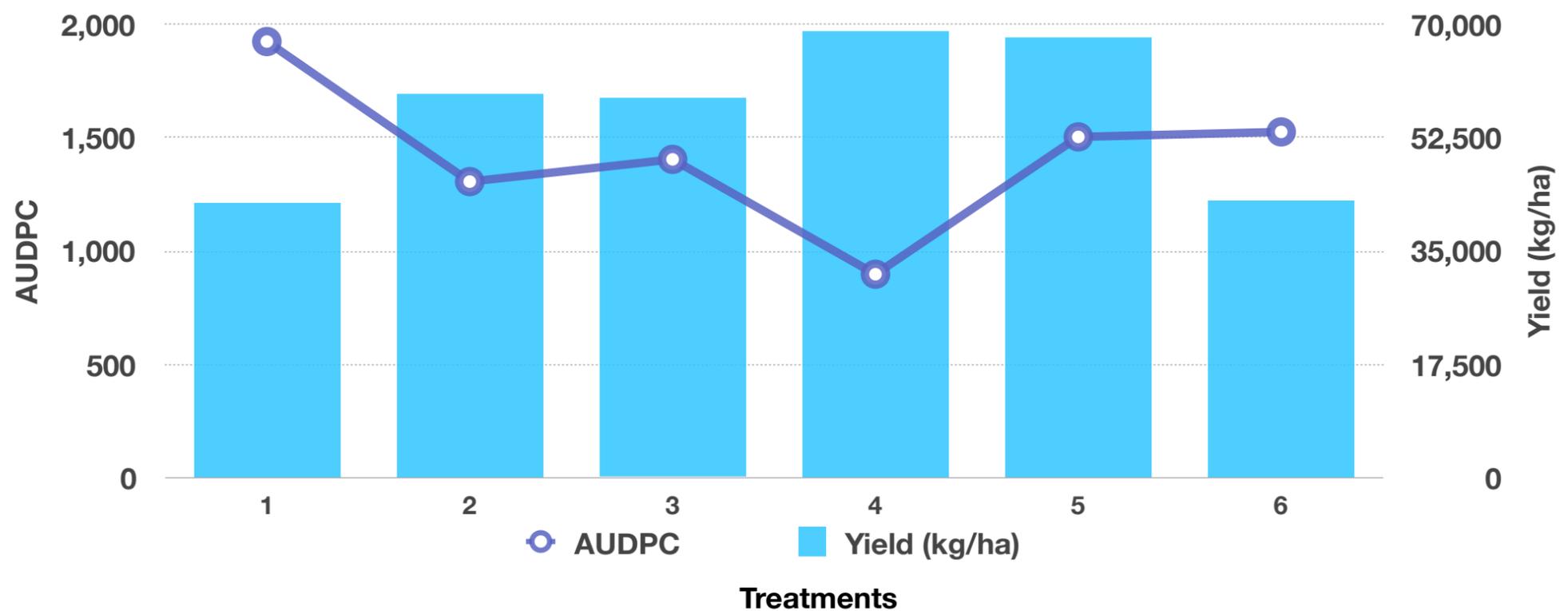
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PLANTS WERE INOCULATED WITH THE PATHOGEN BEFORE FIELD TRANSPLANTING (MIMICS USE OF CONTAMINATED TRANSPLANTS)

TREATMENT (RATE/A)		AUDPC	YIELD (KG/HA)
1	Control (Untreated)	1,924 a	42,521 a
2	Actigard (0.75 oz) foliar (1-4 wk)	1,307 b	59,319 a
3	Actigard (0.75 oz) drip (1-4 wk)	1,405 b	58,444 a
4	Mankocide (2 lb) (1-4 wk)	899 c	68,766 a
5	Cop-R-Quik (6 oz) foliar (1-4 wk)	1,504 b	67,884 a
6	Cop-R-Quik Injectable (3 qt) drip (1-4 wk)	1,526 b	42,956 a

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Variety: Troubadour (Triploid), Pollen Pro (Diploid Pollenizer)
 Plot length: 30 feet
 Plot width: 8 feet
 Distance between plots: 6 feet
 Distance between rows: 5 feet
 Number of plants per plot: 8 (Triploid), and 2 (Pollenizer)
 Plant spacing: 36 inches
 Number of reps: 4
 Transplanted: 03/24/14
 Inoculation: 03/17/14
 Fungicide application dates: 04/03, 04/10, 04/17, 04/23
 Disease assessment dates: 04/07, 04/14, 04/21, 04/28, 05/02
 Harvest date: 07/16

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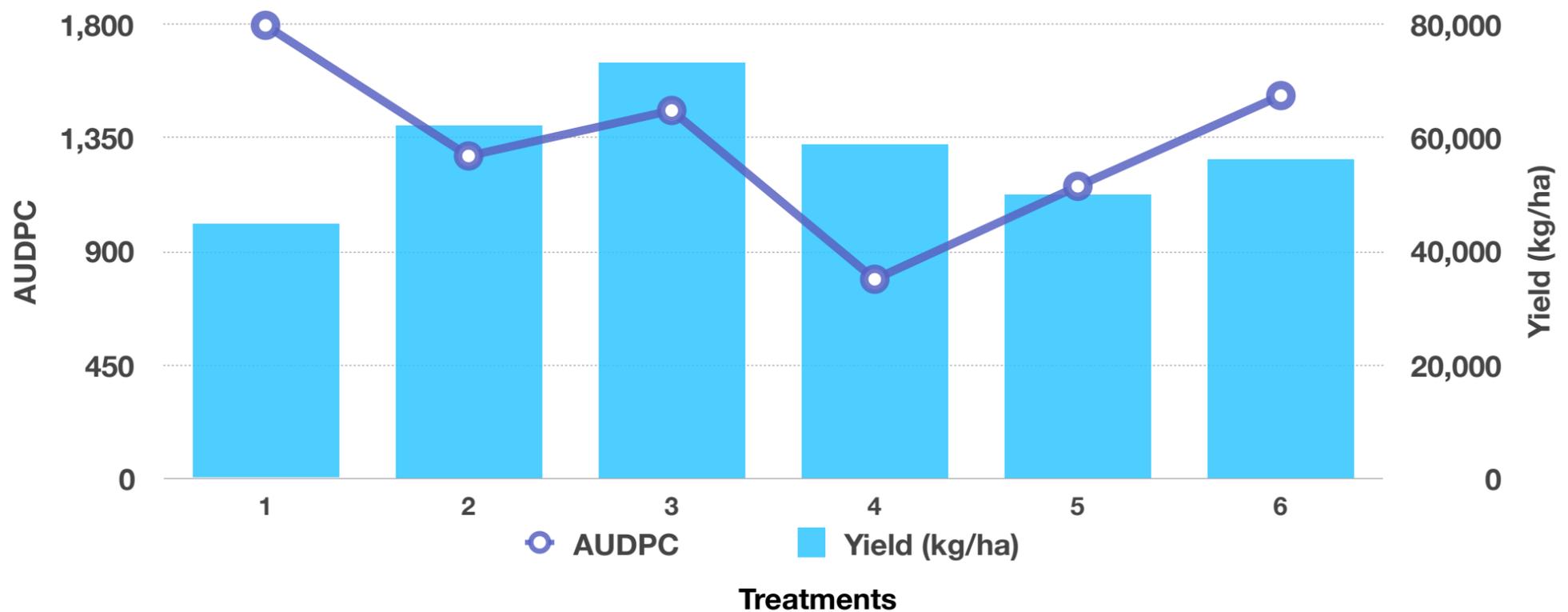
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PLANTS WERE CLEAN AT FIELD TRANSPLANTING, BUT WERE INOCULATED IN THE FIELD AFTER FIRST BACTERICIDE APPLICATION (MIMICS FIELD INTRODUCTION OF THE PATHOGEN)

TREATMENT (RATE/A)		AUDPC	YIELD (KG/HA)
1	Control (Untreated)	1,796 a-c	44,768 c
2	Actigard (0.75 oz) foliar (1-4 wk)	1,279 bc	62,073 ab
3	Actigard (0.75 oz) drip (1-4 wk)	1,459 a-c	73,170 a
4	Mankocide (2 lb) (1-4 wk)	791 d	58,702 a-c
5	Serenade Optimum (0.5 lb) foliar (1-4 wk)	1,159 c	50,193 bc
6	Aliette WDG (2 lb) foliar (1-4 wk)	1,518 a-c	56,345 bc

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 Disease assessment dates: 04/07, 04/14, 04/21, 04/28, 05/02
 Harvest date: 07/16

2014-2015 Watermelon Angular leaf spot research trial data. University of Florida, PSREU, Citra, FL

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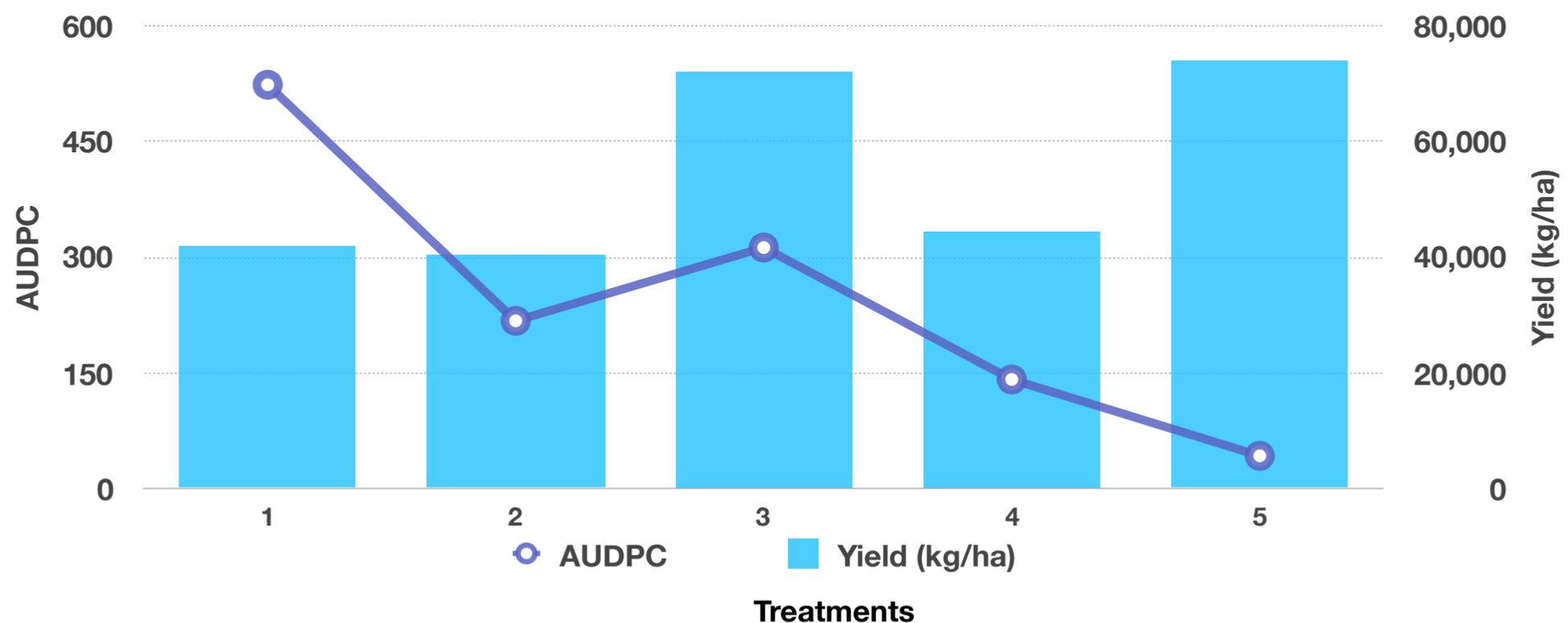
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TREATMENT (RATE/A)		AUDPC	YIELD (KG/HA)
1	Control (Untreated)	524 a	41,806 a
2	Actigard (0.75 oz) foliar (1-3 wk)	218 c	40,476 a
3	Actigard (0.75 oz) drip (1-3 wk)	313 b	72,306 a
4	Mankocide (2 lb) (1-3 wk)	142 d	44,512 a
5	Control (Non-inoculated)	43 e	73,913 a

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Variety: Troubadour (Triplod), Pollen Pro (Diploid Pollenizer)
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 Disease assessment dates: 04/06, 04/13, 04/22, 05/01, 05/07
 Harvest date: 06/16

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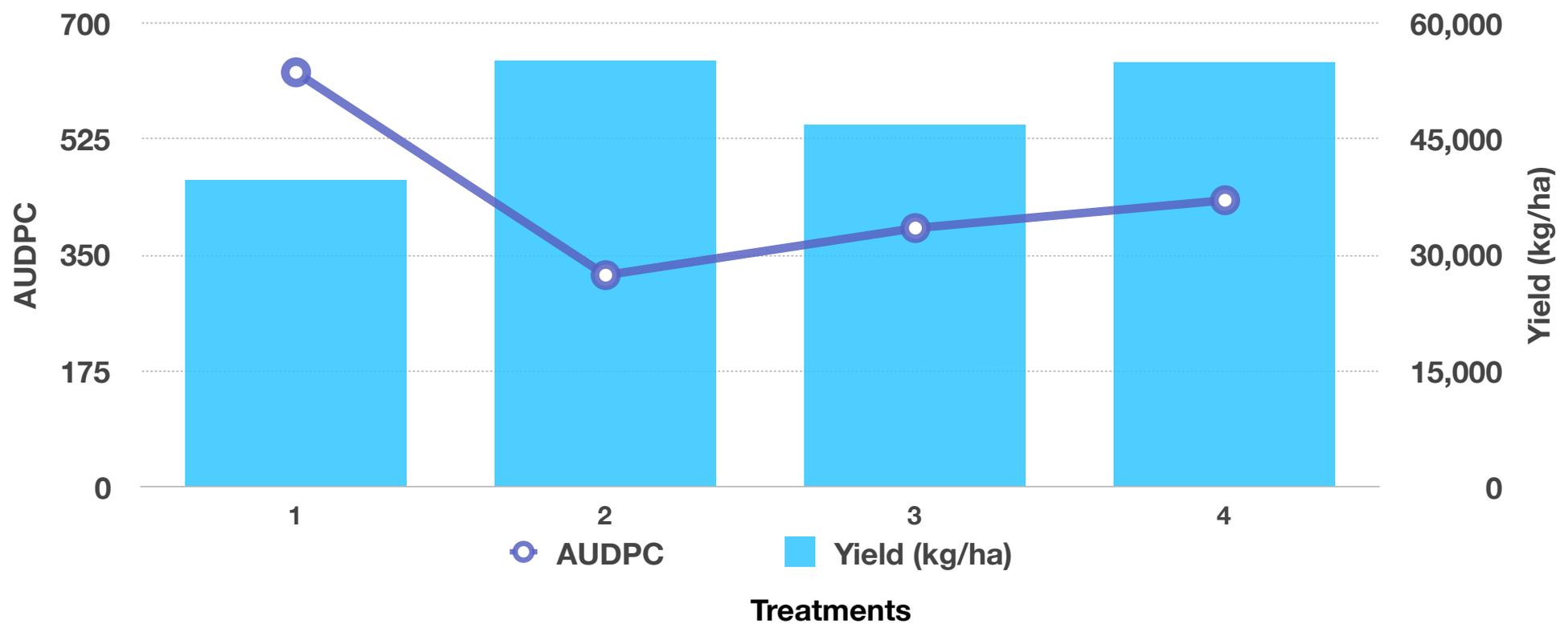
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TREATMENT (RATE/A)		AUDPC	YIELD (KG/HA)
1	Control (Untreated)	626 a	39,740 a
2	Actigard (0.75 oz) foliar (1-3 wk)	320 b	55,120 a
3	Actigard (0.75 oz) drip (1-3 wk)	391 b	47,022 a
4	Kocide 3000 (0.5 lb) (1-3 wk)	433 b	54,842 a

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 Plant spacing: 36 inches
 Number of reps: 4
 Transplanted: 04/02/14
 Inoculation: 03/26/14
 Fungicide application dates: 04/11, 4/18, 4/25
 Disease assessment dates: 04/23, 05/01, 05/07, 05/15
 Harvest date: 6/26

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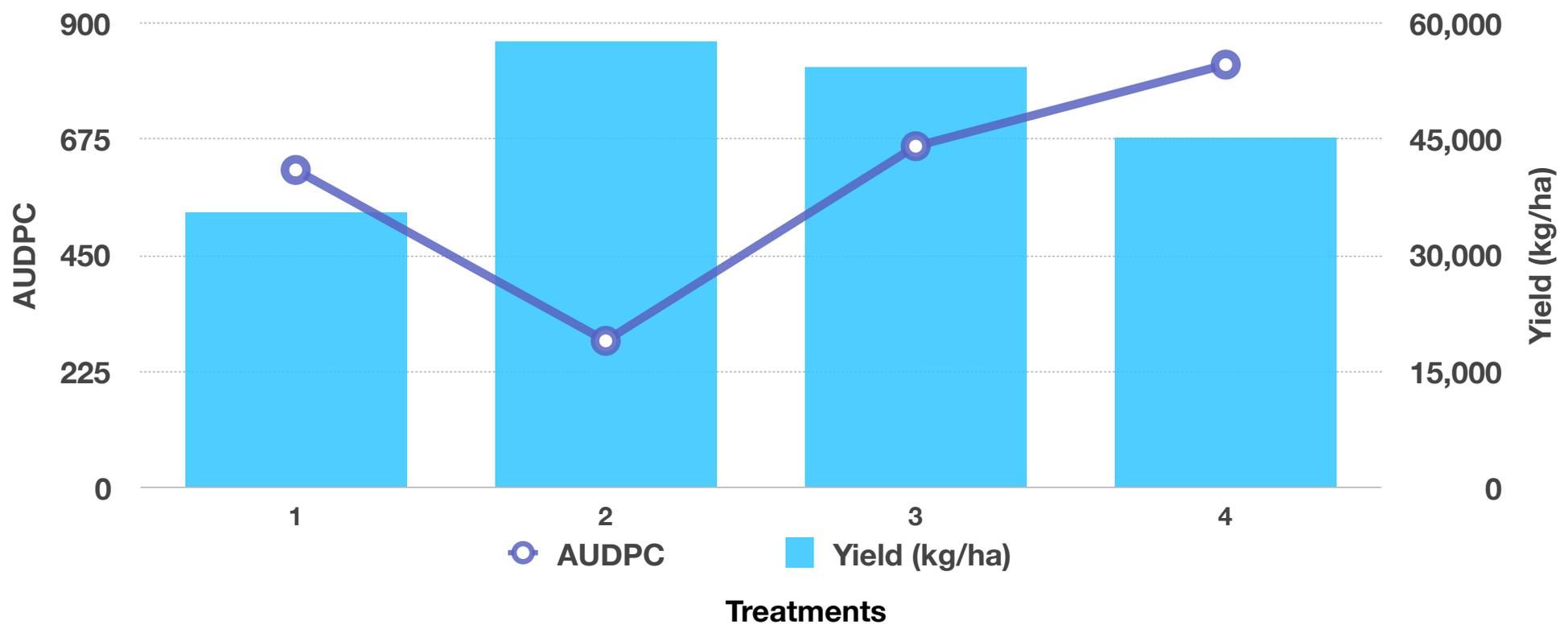
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TREATMENT (RATE/A)		AUDPC	YIELD (KG/HA)
1	Control (Untreated)	616 a	35,657 b
2	Actigard (0.75 oz) foliar (1-3 wk)	285 b	57,574 a
3	Actigard (0.75 oz) drip (1-3 wk)	662 a	54,323 a
4	Kocide 3000 (0.5 lb) (1-3 wk)	820 a	45,286 ab

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 Inoculation: 04/16/14
 Fungicide application dates: 4/11, 4/18, 4/25
 Disease assessment dates: 04/23, 05/01, 05/07, 05/15
 Harvest date: 6/26