2005 Blight Plot Tehama County Rainfall Simulation – Chandler Variety

- Pretest bud samples indicated high pathogen population.
- Smaller trees for better spray coverage
- Improved rainfall uniformity
- Chandler a more important cultivar
- PBB 4/5, FB 4/18 Sprays 4/5, 4/15, 4/21, 4/29, 5/12 and 5/23

Date	Estimated Amount		Condition
3/18	0.07”		Nat.[1]
3/19	0.58”		Nat.
3/20	0.11”		Nat.
3/21	0.46”		Nat.
3/22	0.22”		Nat.
3/23	0.41		Nat.
3/27	0.12”		Nat.
3/28	0.01”		Nat.
4/3	0.17”		Nat.
4/7	0.24”	+10 hrs (0.40”)	Nat. & Sim.[2]
4/8	0.32”		Nat.
4/13	0.04”		Nat.
4/16	10 hrs (0.40”)		Simulated
4/22	0.08”	+10 hrs (0.40”)	Nat. & Sim.
4/23	0.24”		Nat.
4/24	0.41”		Nat.
4/30	0.01”	+10 hrs (0.36”)	Nat. & Sim.
5/3	0.02”		Nat.
5/4	0.54”		Nat.
5/5	0.47”		Nat.
5/8	0.93”		Nat.
5/9	0.04		Nat.
5/13	10 hrs (0.46”)		Sim.
5/15	0.01”		Nat.
5/16	0.03”		Nat.
5/17	0.08”		Nat.
5/18	0.57”		Nat.
5/24	10 hrs (0.44”)		Sim.

[1]Natural rain — 25 events for 6.18 inches. Measured off site using the local CIMIS station.
[2]Simulated rain — 6 events, 10 hours per simulated rainfall, 2.46 inches. Average applied water was calculated using flow meters on individual risers.

Data to Support the Efficacy of Famoxate Liquid and GX569 (USA-05-631)

Treatment	Rate
1. JE874-425 (famoxadone)	39 fl. oz./Ac.
2. JE874-426 (famoxadone)	6 fl. oz./Ac.
3. JE874-425 + Kocide 2000	39 fl. oz.+6 lbs./Ac.
4. JE874-426 + Kocide 2000	6 fl. oz.+6 lbs./Ac.
5. Kocide 2000	6 lbs./Ac. (2.1 lbs. ai-cu)
6. GX569 (copper) + Manex	3.5 lbs.+58 oz./Ac. (1.05 lbs. ai-cu)
7. Kocide 2000 + Manex	3.0 lbs. + 58 oz./Ac. (1.05 lbs. ai-cu)
8. Kocide 2000 + Manex	4.0 lbs. + 58 oz./Ac. (1.40 lbs. ai cu)
9. Kocide 2000 + Manex	6 lbs. + 58 oz./Ac. (2.1 lbs. ai-cu)
10. Control (simulated rainfall)	—
11. Control (natural rainfall)	—

Data to Support the Efficacy of Famoxate Liquid and GX569 (USA-05-631)

Treatment	% Blight	Phytotoxicity
1. JE874-425	68.54 [1]a	0
11. Control (natural rainfall)	65.76 [2]	0
2. JE874-426	62.68 ab	0
10. Control (simulated rainfall)	58.16 ab	0
3. JE874-425 + Kocide 2000	49.29 bc	0
5. Kocide 2000	38.60 c	0
7. Kocide 2000 (3.0 lbs.) + Manex	36.73 c	0
4. JE874-426 + Kocide 2000	34.59 c	0
6. GX569 + Manex	34.48 c	0
9. Kocide 2000 (6 lbs.) + Manex	15.62 d	0
8. Kocide 2000 (4.0 lbs.) + Manex	15.60 d	0

[1]Duncan's multiple range test for treatment means at the 5% level.

[2]Control (natural rainfall) trees were not part of the RCB design and were not included in the statistical analysis.

Data to Support the Efficacy of Nordox 75WG and Nordox 30/30

Treatment	Rate
1. Control (natural rainfall)	—
2. Control (simulated rainfall)	—
3. Kocide 2000	6 lbs./Ac. (2.1 lbs. ai-cu)
4. Nordox 75WG + Manex	2.8 lbs. + 58 oz./Ac. (2.1 lbs ai-cu)
5. Nordox 30/30 (copper/zinc)	7 lbs./Ac. (2.1 lbs ai-cu)
6. Kocide 2000 + Manex	6 lbs. + 58 oz./Ac. (2.1 lbs. ai-cu)

Data to Support the Efficacy of Nordox 75WG and Nordox 30/30

Treatment	% Blight	Phytotoxicity
1. Control (natural rainfall)	65.76 [1]	0
2. Control (simulated rainfall)	58.16 a[2]	0
3. Kocide 2000	38.60 b	0
4. Nordox 75WG + Manex	32.85 bc	0
5. Nordox 30/30	28.09 bc	0
6. Kocide 2000 + Manex	15.62 c	0

[1]Control (natural rainfall) trees were not part of the RCB design and were not included in the statistical analysis.

[2]Duncan's multiple range test for treatment means at the 5% level.

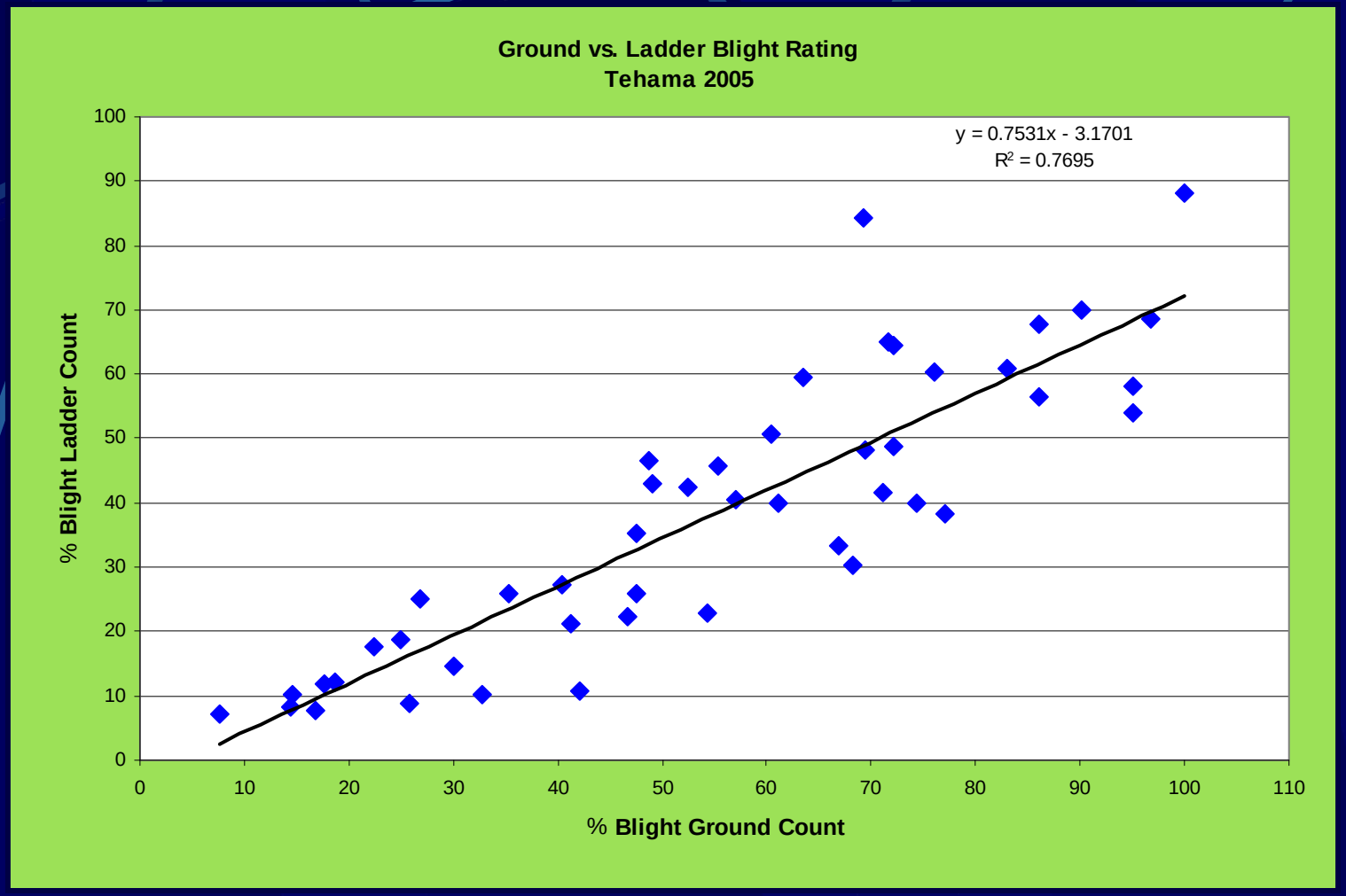
Reduced Rates of Kocide 2000 for Walnut Blight Control

Treatment	% Blight	Phytotoxicity
8. Control (natural rainfall)	65.76	0
6. Kocide 2000 (1 lb.) + Manex (32 oz.)	58.32 a	0
7. Control (simulated rainfall)	58.16 a[1]	0
5. Kocide 2000 (6 lbs.)	38.60 b	0
3. Kocide 2000 (3 lbs.) + Manex	36.73 b	0
4. Kocide 2000 (2 lbs.) + Manex	33.82 b	0
1. Kocide 2000 (6 lbs.) + Manex	15.62 c	0
2. Kocide 2000 (4 lbs.) + Manex	15.60 c	0

[1]Duncan's multiple range test for treatment means at the 5% level.

Comparison of Ground vs. Ladder Blight Counts Selected Treatments – Tehama 2005

	% Ground	% Ladder	%
KOC 6 + M	16.89	7.83	2.15
	66.92	33.21	2.01
	17.70	11.84	1.49
JE 426	83.00	60.80	1.36
	86.00	67.83	1.26
	77.04	38.33	2.00
Grower	18.72	12.19	1.53
	25.73	8.72	2.95
	74.27	40.06	1.85
	26.78	25.16	1.06
	48.64	46.46	1.04
Control	96.72	68.50	1.41
	76.00	60.42	1.25
	71.67	64.99	1.10
	69.33	84.23	0.82
	60.38	50.68	1.19


Ground vs. Ladder Blight Rating
Tehama 2005
y = 0.7531x - 3.1701
R² = 0.7695
% Blight Ladder Count
% Blight Ground Count
0
10
20
30
40
50
60
70
80
90
100
110

Ground vs. Ladder Blight Rating Tehama 2005

Ground Count		Ladder Count	
Treatment	% Blight	Treatment	% Blight
1. KOC 4 + M	20.31	1. KOC 4 + M	15.60 d
2. KOC 3 + M	33.42	2. KOC 6 + M	15.60 d
3. KOC 6 + M	33.84	3. GX 569	34.48 c
4. JE 426 + K	48.36	4. JE 426 + K	34.59 c
5. GX 569	52.06	5. KOC 3 + M	36.73 c
6. JE 425 + K	55.10	6. KOC 2000	38.60 c
7. KOC 2000	69.41	7. JE 425 + K	49.29 bc
8. CON (nat)	74.82	8. CON (sim)	58.16 ab
9. JE 426	82.01	9. JE 426	62.68 ab
10. JE 425	87.44	10. CON (nat)	65.76
11. CON (sim)	90.50	11. JE 425	68.54 a