

The background of the slide is a close-up photograph of two green walnuts on a branch. The walnuts are covered in a fine, dark, speckled pattern, which is characteristic of walnut blight. The leaves are dark green and slightly out of focus. The text is overlaid on the image in a white, serif font with a black outline.

Walnut Blight Control
Investigations Tehama County
2009

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Figure 1. Rainfall, Stage of Growth and Spray Timing for the Tehama Walnut Blight Experiment

Date	Rainfall	Simulated Rainfall (inches, max temp.)	Event
3/30/09			30% prayer stage
4/3/09			40% prayer stage
4/4/09		2 hours (.12 in)	frost protection
4/7-4/10/09	.40 in.		first spray (4/7)
4/9/09		30 hours (1.80 in, 55°F)	catkins gone
4/13/09		1 hour (0.06 in)	first flowers/frost protection
4/17/09			second spray (4/17)
4/18/09			full bloom on first prayers
4/20/09		24 hours (1.44 in, 97°F)	
4/24/09			third spray (4/24)
4/25/09		48 hours (2.88 in, 70°F)	
5/1-5/4/09	.58 in		
5/6/09			fourth spray (5/6)
5/8-5/9/09		30 hours (1.80 in, 86°F)	
5/16-5/18/09		42 hours (2.52 in, 97°F)	
5/21/09			fifth spray (5/21)
5/22/09		12 hours (.72 in, 90°F)	
6/3-6/5/09	.51 in		
6/12/09		30 hours (1.80 in, 78°F)	
6/19/09			blight canopy counts

Figure 4. Walnut blight symptoms for 300 walnuts tagged on April 28, 2009. Tagged walnuts were unsprayed and under simulated rainfall.

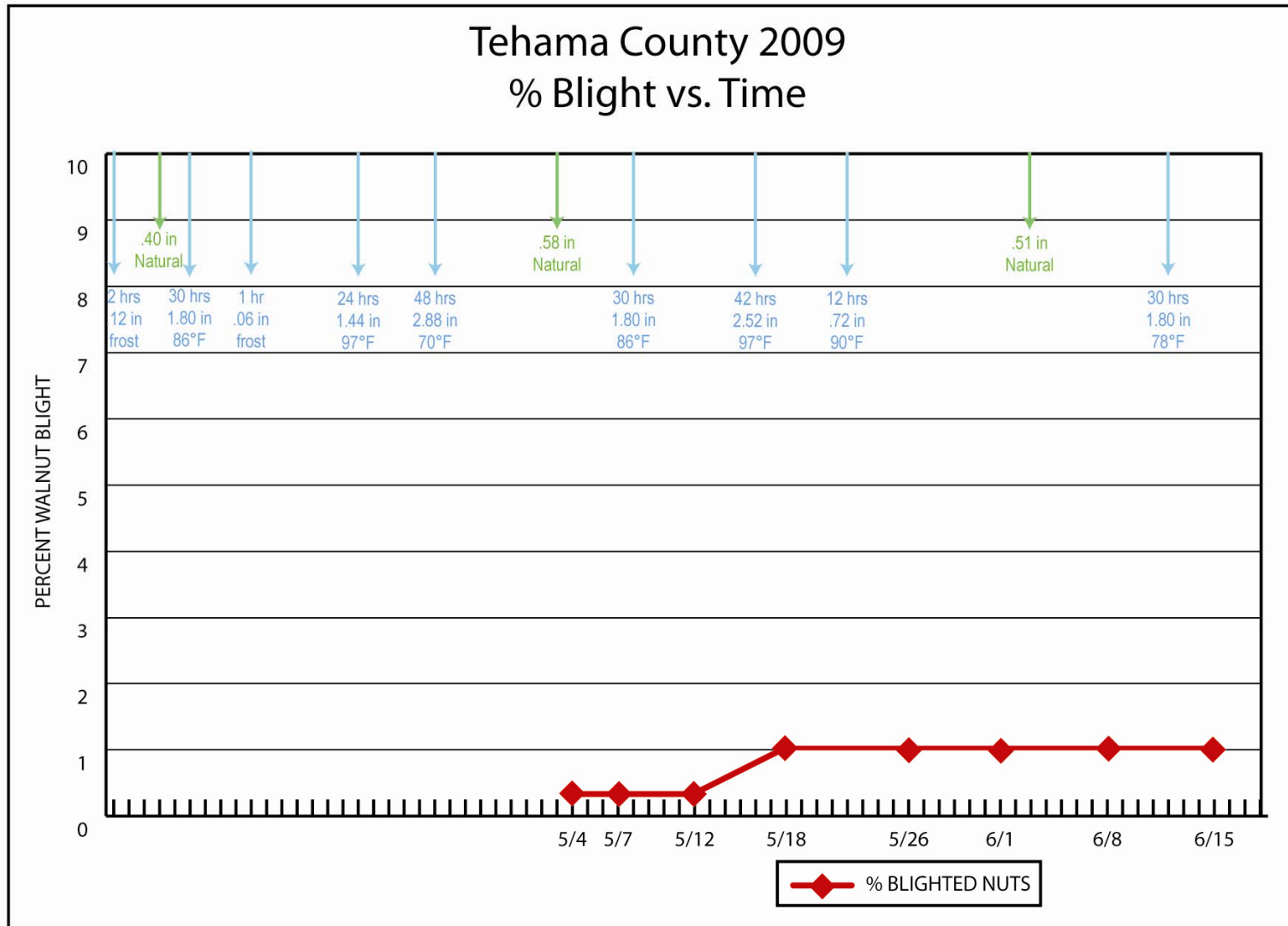
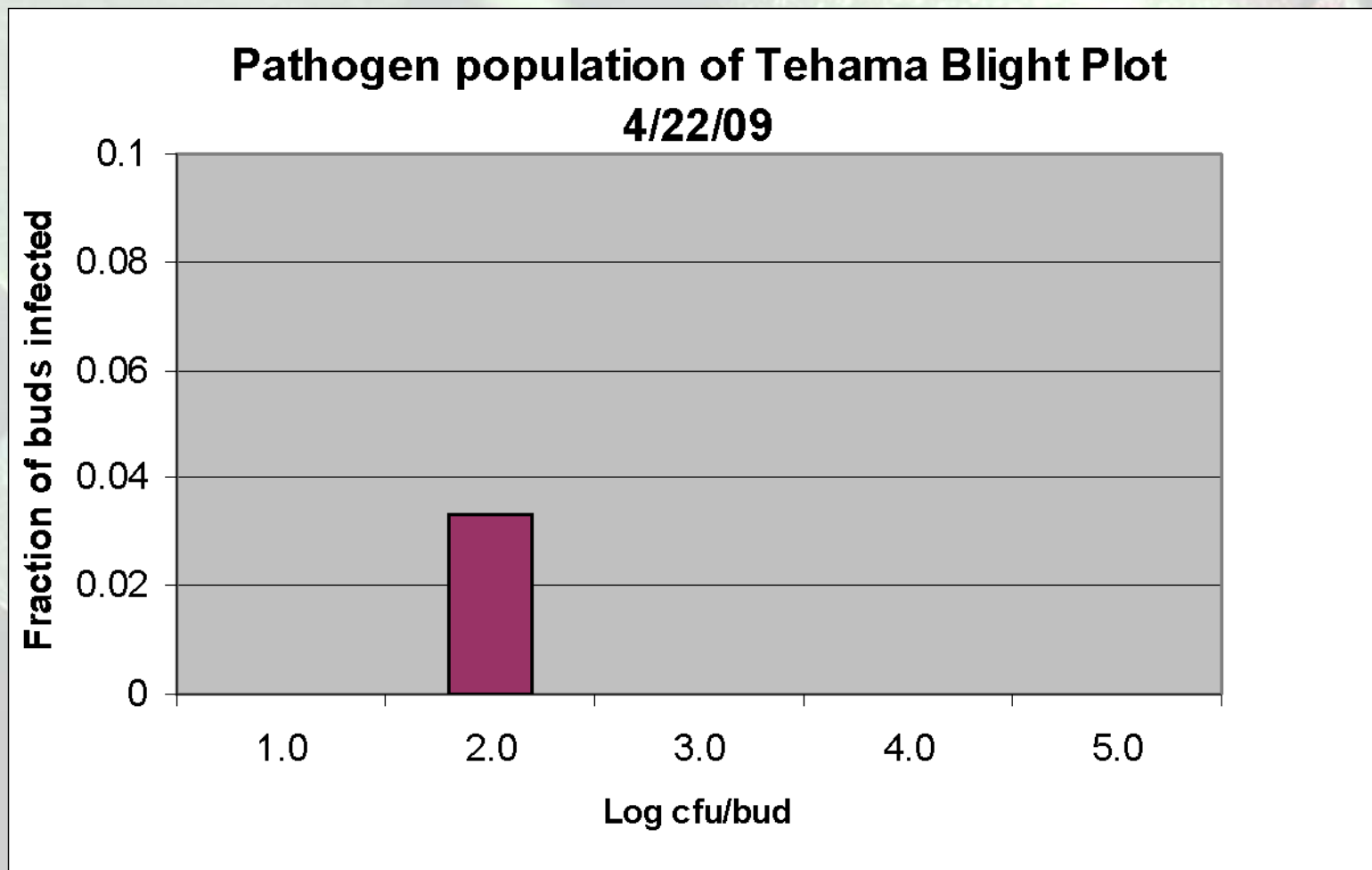


Figure 2. Walnut Blight Disease Ratings and Phytotoxicity for 2009

<u>Treatment</u>	<u>Percent Blight</u>	<u>Phytotoxicity</u>
Kocide 3000 @ 4 lbs./Ac + Manex @ 58 oz./Ac	0 a	0
Kocide 3000 @ 4 lbs./Ac + Dithane @ 2.4 lbs./Ac	0 a	0
Kocide 3000 @ 4 lbs./Ac + Manzate @ 2.4 lbs./Ac	0.06 a	0
Kocide 3000 @ 4 lbs./Ac + Manzate @ 1.5 lbs./Ac	0.05 a	0
Kocide 3000 @ 4 lbs./Ac + Manzate @ 0.5 lbs./Ac	0 a	0
Kocide 3000 @ 4 lbs./Ac	0.06 a	0
Pristine @ 10 oz./Ac	0.06 a	0
Pristine @ 10 oz./Ac + Kocide 3000 @ 4 lbs./Ac	0 a	0
Mankocide @ 8 lbs./Ac	0 a	0
Untreated Control	0.13 a	0

Figure 6. Incidence of populations of *Xanthomonas juglandis* on individual shoots of walnut sampled on April 22, 2009.



Tehama Blight Plots

<u>Year</u>	<u>Blight Population</u>	<u>Simulated Rainfall</u>	<u>% Blight</u>
2006	High	Yes	59%
2007	High	Yes	35%
2008	High	No	.32%
2009	Low	Yes	.13%

Chandler variety, Nelson R-30 sprinklers 30 feet above ground.

Coates CHEMICAL CONTROL OF
WALNUT HUSK FLY - Tehama 1-
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