

Re: March 5 if possible - Piperonyl Butoxide (PBO synergist) on California crops

Amanda Crump

Sun 2/25/2018 4:06 PM

To: Chin, Teung <Teung.Chin@ARS.USDA.GOV>;

Cc: Matt Enrico Baur <mebaur@ucanr.edu>;

1 attachments (16 KB)

Piperonyl Butoxide.xlsx;

Hi Teung,

Attached is a rough run of acres treated for all crops 2011 to 2015 (we don't have 2016 data yet). I'll work on understanding the ones you have listed below – type of pyrethroid/pyrethrin and on which pest and rate for caneberry, orange, fresh pea, squash (is this winter or summer), and strawberry.

Keep smilin',
Amanda

From: "Chin, Teung" <Teung.Chin@ARS.USDA.GOV>

Date: Friday, February 23, 2018 at 6:45 AM

To: Amanda Crump <acrump@ucanr.edu>

Cc: Matt Baur <mebaur@ucanr.edu>

Subject: March 5 if possible - Piperonyl Butoxide (PBO synergist) on California crops

Hello Amanda:

Piperonyl Butoxide (PBO) a synergist, is undergoing Registration Review. <https://www.regulations.gov/docket?D=EPA-HQ-OPP-2010-0498>

Data sources indicate that PBO is used on CA crops.

Would there be information on which pyrethroid or pyrethrin PBO might have used with and for which pest(s)? Average rate of the pyrethroid/pyrethrin would be helpful as well.

Active Ingredient(1): PIPERONYL BUTOXIDE

Seed Treatment(1): Non seed treatment

	Year	2012	2013	2014	2015	2016	Row total

Crop	State	Total Area Treated (acres)	Total Area Treated (acres)	Total Area Treated (acres)	Total Area Treated (acres)	Total Area Treated (acres)	Total Area Treated (acres)
Caneberries			129	11,630	53		11,812
Caneberries	CALIFORNIA		129	11,630	53		11,812
Cotton						5,498	5,498
Cotton	GEORGIA					5,498	5,498
Grapefruit		694			1,285		1,978
Grapefruit	TEXAS	694			1,285		1,978
Oranges			324				324
Oranges	CALIFORNIA		324				324
Peas (Fresh/Green/Sweet)			113				113
Peas (Fresh/Green/Sweet)	MINNESOTA		63				63
Peas (Fresh/Green/Sweet)	WISCONSIN		50				50
Squash		479					479
Squash	CALIFORNIA	479					479
Strawberries		13,971	31,361	37,302	7,996		90,629
Strawberries	CALIFORNIA	13,971	31,361	37,302	7,996		90,629
Grand total		15,144	31,927	48,932	9,334	5,498	110,834

Feedback needed by March 5 if possible.

(The comments deadline is actually March 15 but my director will be out of the country beginning March 8 until March 16)

Thank you in advance for any information you might have.

Teung

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Acres Treated						
chemical	Piperonyl Butoxide (486; 51-03-6)					Totals
year	2011	2012	2013	2014	2015	
Alfalfa (23001)					3	3
Almond (3001)	190	148	31.5			370
Amaranth, Edible (Chinese Spinach) (13033)				2.5		3
Animal Premise (61001)	88.99	83.47	60.44	14	24	271
Apple (4001)	5.05	180.12	113	29.99	23.42	352
Apricot (5001)	13	26	241.29	27	19.6	327
Arrugula (13056)	7	5.37	5	0.5		18
Basil, Sweet (8006)	147.98	149.25	393.23	367.8	340.8	1,399
Bean, Succulent (15003)		27	1.5	8	32.5	69
Beet (29109)		2.34				2
Blackberry (1002)			10	184.19	163.42	358
Blueberry (1009)	2.5	1	11	8	15	38
Bok Choy (13502)	117.7	20.2	7.39	20.4	105.34	271
Broccoli (13005)	2	10.5	85.15	4.2	15	117
Brussels Sprout (13006)	120	0.25		3.05	236.5	360
Cabbage (13007)		0.25	0.98	13.26	112.44	127
Carrot (29111)					0.5	1
Cauliflower (13008)					60	60
Celery (29113)		7	19.04	66.5	461.48	554
Cherimoya (6030)		2				2
Cherry (5002)	147.57	8		61.1	19.21	236
Chervil (13055)	6.5	2.75	4	3.5	10	27
Chinese Cabbage (Nappa) (13010)	5.58		9.31	28.01	171.85	215
Chive (14005)	74.5	120	87	82.25	178.1	542
Cilantro (13501)	42.5	81.25	71	12	1	208
Citrus (2000)					0.46	0
Cole Crop (13004)					11.25	11
Collard (13009)			6.25	6.27	37.8	50
Corn (Forage - Fodder) (22005)	0.01					0
Corn, Human Consumption (29119)	0.36				25.75	26
Cotton (29121)				100		100
Cucumber (10010)	44.65	44.57	49.27	17.25	14.75	170
Daikon (14023)				7.85	42.79	51
Dandelion Green (13014)					2	2
Dill (8015)	22	60.5	38	17	2.5	140
Edible Flowers (29008)		0.5				1
Eggplant (11001)	1	1	4.5	0.5		7
Endive (Escarole) (13015)	0.66	6.6			1.66	9
Fennel (28008)					2.8	3

Fig (6005)			4	6		10
Forage Hay/Silage (22000)			83			83
Gai Lon (13903)	11.9					12
Grape (29141)	42.57			184		227
Grape, Wine (29143)	4,304.50	2.25	149	378.5	330.3	5,165
Grapefruit (2002)	2.98				80	83
Herb, Spice (8000)	151.78	28.3	58.9	50.75	106.45	396
Kale (13011)		3.33	27.39	6.18	82.21	119
Kohlrabi (13012)	2.51		1.01	12.21	21.58	37
Landscape Maintenance (30)	6					6
Leek (14010)				2.1		2
Lemon (2004)	56	12	25.4			93
Lettuce, Head (13045)	172.6	303.5	203		75	754
Lettuce, Leaf (13031)	632.27	593.95	897.6	61	106.12	2,291
Melon (29122)		2				2
Mint (28012)	90	182.75	191.5	88.5	220.9	774
Mushroom (16003)	297.25	427.95	229.18	26.58	62.02	1,043
Mushroom House (61007)	48.6	106.59	99.36	53.16	8.86	317
Mustard (29123)		1.25	1.96	17.42	55.25	76
Mustard Greens (13021)			7.48	24.14	100.89	133
N-Grnhs Flower (151)	673.42	437.55	462.05	506.08	219.19	2,298
N-Grnhs Plants In Containers (153)	403.56	406.65	217.42	25.07	131.37	1,184
N-Grnhs Transplants (155)	120.98	146.02	157.42	58.68	139.95	623
N-Outdr Flower (152)	1,793.94	6,627.29	5,823.83	5,844.00	5,819.88	25,909
N-Outdr Plants In Containers (154)	2,768.39	6,088.27	6,396.45	1,676.65	3,630.64	20,560
N-Outdr Transplants (156)	7,741.93	2,932.79	3,763.83	3,538.50	2,408.25	20,385
Nectarine (5003)	2					2
Nursery Soil (40501)		3				3
Onion, Green (16004)		1	4	1	0.25	6
Orange (2006)	938.79	20	16	963	3,493.00	5,431
Oregano (8026)	55.75	1	10	48.25	51.5	167
Parsley (13022)	10	15.5	4.25	9	0.25	39
Pastureland (28035)	96.59	120.74	156.96	157.32	84.52	616
Peach (5004)	373.04	9	118.2	984.34	959.48	2,444
Pear (4003)	3.88	2	6	13.1	7.31	32
Peas (29127)	4.5	4.4				9
Pepper, Fruiting (11003)	71	1	1	2	0.25	75
Pepper, Spice (8050)				6.51		7
Persimmon (6012)				12	6	18
Pistachio (3011)		80	40	40		160
Plum (5005)	21.49		14.02	78.55	61.97	176
Pomegranate (6015)			212			212
Potato (14013)	4.36					4

Poultry (55000)	1					1
Radicchio (13524)					0.5	1
Radish (14014)		1.5		34.95	6	42
Raspberrry (1006)	48.69	70.5	52.8	447.7	186.29	806
Recreation Area (67002)	31					31
Research Commodity (99)	2.37		0.45	0.55		3
Rights Of Way (40)			4	4	1	9
Root Vegetable (28061)			0.75	0.5	4.5	6
Rosemary (8032)	12	67.4	84.5	58.5	119.25	342
Safflower (29129)					60	60
Sage (8035)	48.5	110.5	110	19	84	372
Spinach (13024)		36.2		1.5	9.56	47
Squash (10012)	2	12	27	36	3	80
Storage Area/Box (46000)				68.87	57.39	126
Strawberry (1016)	5,540.74	#####	#####	19,631.50	#####	67,849
Sudangrass (22011)		2				2
Swiss Chard (13025)	8.06				3	11
Tangerine (2008)	68.5			1,096.45	120	1,285
Tarragon (8041)				3.75	2.9	7
Thyme (8042)	46	62.55	114.9	74.25	52.6	350
Tomato (11005)	5,409.76	758.57	473.08	547.55	65.85	7,255
Tropical/Subtropical Fruit (6000)					0.25	0
Turnip (29137)	4.49			8.64	62.97	76
Uncultivated Ag (66000)			1	5	7	13
Uncultivated Non-Ag (67000)					15	15
Vegetable (28024)	0.4	3				3
Vegetables, Leafy (13000)	1.67	5	1.75	0.25	5.25	14
Walnut (3009)			87.25	54	83	224
Water Area (65000)		500		200		700
Watercress (13027)	2	5	3	78	21	109
Wheat (29139)	2.91					3
Totals	33,172.24	#####	#####	38,330.67	#####	178,322