

HUDSON VALLEY LAB PEAR INSECTICIDE SCREEN  
PEAR BLOCK, HIGHLAND, NEW YORK 2011

N  
W E  
S

BL BO 7	BL BO 8	BL BO 9	BL BO 10	BL BO 11	BL BO 12	BL BO 2	BL BO 1	REP I
BL BO 6	BL BO 5	BL BO 4	BL BO 3	BL BO 1	BL BO 3	BL BO 9	BL BO 12	REP II
BL BO 6	BL BO 11	BL BO 7	BL BO 5	BL BO 8	BL BO 2	BL BO 4	BL BO 10	REP III
BL BO 2	BL BO 9	BL BO 11	BL BO 5	BL BO 4	BL BO 6	BL BO 12	BL BO 7	
BL BO 10	BL BO 8	BL BO 3	BL BO 1	BL BO 3	BL BO 7	BL BO 10	BL BO 2	REP IV
BL BO 1	BL BO 12	BL BO 4	BL BO 6	BL BO 5	BL BO 9	BL BO 11	BL BO 8	

Treatment & Form.	lb. ai/ acre	oz. (gm/ml)/ 100 gal. dilute	Timing	Treatment & Form.	lb. ai./ac	oz.(gm/ml)/ 100 gal. dilute	Timing
1. BioCover Hort. oil		3% v/v	D	7. Esteem 35 WP		5.0 oz/A	DD
BioCover Hort. oil		1% v/v	WB, PF – EOS	Centaur 0.7 WDG+ 0.25% oil		46.0 oz/A	WB
2. Surround WP		50.0 lbs./A	D, WB, PF	AgriMek 0.15EC+ 0.25% oil		16.0 fl oz/A	PF
BioCover Hort. oil		1% v/v	2C – EOS	Delegate 25WG+ 0.25% oil		7.0 oz/A	14, 28dpPF
3. Esteem 35 WP		5.0 oz/A	DD	8. Esteem 35 WP		5.0 oz/A	DD
Centaur 0.7 WDG+ 0.25% oil		46.0 oz/A	WB	Calypso 4F+ 0.25% oil		8.0 oz/A	WB, PF
AgriMek 0.15EC+ 0.25% oil		16.0 fl oz/A	PF	Movento 240SC + 0.25% oil		9.0 fl oz/A	14, 28dpPF
4. Esteem 35 WP		5.0 oz/A	DD	9. Esteem 35 WP		5.0 oz/A	DD
Centaur 0.7 WDG+ 0.25% oil		46.0 oz/A	WB	Actara 25WDG + 0.25% oil		5.5 oz/A	WB, PF
AgriMek 0.15EC+ 0.25% oil		16.0 fl oz/A	PF	Delegate WG+ 0.25% oil		7.0 oz/A	14, 28dpPF
HGW86 10SE + 0.25% oil		10.1 fl oz/A	14, 28dpPF	10. Esteem 35 WP		5.0 oz/A	DD
5. Esteem 35 WP		5.0 oz/A	DD	Assail 30SG + 0.25% oil		5.5 oz/A	WB, PF
Centaur 0.7 WDG+ 0.25% oil		46.0 oz/A	WB	Delegate WG+ 0.25% oil		7.0 oz/A	14, 28dpPF
AgriMek 0.15EC+ 0.25% oil		16.0 fl oz/A	PF	11. Esteem 35 WP		5.0 oz/A	DD
HGW86 10SE + 0.25% oil		13.5 fl oz/A	14, 28dpPF	Calypso 4F+ 0.25% oil		8.0 oz/A	WB, PF
6. Esteem 35 WP		5.0 oz/A	DD	Delegate WG+ 0.25% oil		7.0 oz/A	14, 28dpPF
Centaur 0.7 WDG+ 0.25% oil		46.0 oz/A	WB	12. UNTREATED			
AgriMek 0.15EC+ 0.25% oil		16.0 fl oz/A	PF				
HGW86 10SE + 0.25% oil		16.9 fl oz/A	14, 28dpPF				

400 gallons/A dilute vol. for concentrate calculations. Evaluations: Season long psylla egg, nymph & adult counts; phytotoxicity. BioCover horticultural oil used as the adjuvant in all treatments as tank mix at 0.25% v/v.

---



---

Treatment Schedule For Pear Psylla On Pear.  
N.Y.S.A.E.S. Hudson Valley Lab. Highland N.Y. - 2011.

---



---

Treatment/Formulation	Rate	Timing	Application Dates
1. BioCover Hort. oil Damoil	1.0% v/v 1.0% v/v	WB, PF-EOS BB	15 April; 19 May; 5, 17, 24 June 7 April
2. Surround WP BioCover Hort. oil	50.0 lbs/A 1% v/v	D, WB, PF 2C-EOS	7, 15 April; 19 May 5, 17, 24 June
3. Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil	46.0 oz/A 16.0 fl.oz/A	WB PF	15 April 19 May; 17 June
4. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil HGW86 10SE + 0.25% oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 10.1 fl.oz/A	BB WB PF 14, 28dp PF	9 April 15 April 19 May 5, 17 June
5. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil HGW86 10SE + 0.25% oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 13.5 fl.oz/A	BB WB PF 14, 28, dpPF	9 April 15 April 19 April 5, 17 June
6. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil HGW86 10SE + 0.25% oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 16.9 fl.oz/A	BB WB PF 14, 28, dpPF	9 April 15 April 19 April 5, 17 June
7. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil Delegate 25WG + 0.25%oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 7.0 oz/A	BB WB PF 14, 28, dpPF	9 April 15 April 19 April 5, 17 June
8. Esteem 35WP Calypso 4F + 0.25%oil Movento 240SC + 0.25%oil	5.0 oz/A 8.0 oz/A 9.0 fl.oz/A	BB WB,PF 14, 28, dpPF	9 April 15 April; 19 May 5, 17 June
9. Esteem 35WP Actara 25WDG + 0.25%oil Delegate WG + 0.25%oil	5.0 oz/A 5.5 oz/A 7.0 oz/A	BB W,BPF 14, 28, dpPF	9 April 15 April; 19 May 5, 17 June
10. Esteem 35WP Assail 30SG + 0.25%oil Delegate WG + 0.25%oil	5.0 oz/A 5.5 oz/A 7.0 oz/A	BB WB,PF 14, 28, dpPF	9 April 15 April; 19 May 5, 17 June
11. Esteem 35WP Calypso 4F + 0.25%oil Delegate WG + 0.25%oil	5.0 oz/A 8.0 oz/A 7.0 oz/A	BB WB,PF 14, 28, dpPF	9 April 15 April; 19 May 5, 17 June

---

12. Untreated Control

---

Firewall + Regulade applied at 1 & 2C on 12 and 24 May for fireblight control.

Table 10a Evaluations Of Insecticide Schedules For Controlling Early Season Insect Complex On Pear <sup>A</sup>.  
N.Y.S.A.E.S. Hudson Valley Lab. Highland N.Y. - 2011.

Treatment / Formulation	Rate	Application Timing	Mean number of Pear Psylla eggs present			
			11 Apr	2 May	3 Jun	22Jun
1. BioCover Hort. oil Damoil	1.0% v/v	WB, PF-EOS BB	0.2 a	0.1 a	2.9 a.b	0.9 ab ----
2. Surround WP BioCover Hort. oil	50.0 lbs/A 1% v/v	D, WB, PF 2C-EOS	0.0 a	0.1 a	3.8 ab	1.4 abc
3. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A	BB WB PF	0.0 a	0.1a	4.0 ab	1.5 abc
4. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil HGW86 10SE + 0.25% oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 10.1 fl.oz/A	BB WB PF 14, 28 dpPF	----	----	2.8 ab	5.2 d
5. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil HGW86 10SE + 0.25% oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 13.5 fl.oz/A	BB WB PF 14, 28 dpPF	----	----	2.3 ab	2.2 bc
6. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil HGW86 10SE + 0.25% oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 16.9 fl.oz/A	BB WB PF 14, 28 dpPF	----	----	1.2 a	2.8 c
7. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil Delegate 25WG + 0.25%oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 7.0 oz/A	BB WB PF 14, 28 dpPF	----	----	2.5 ab	1.4 abc
8. Esteem 35WP Calypso 4F + 0.25%oil Movento 240SC + 0.25%oil	5.0 oz/A 8.0 oz/A 9.0 fl.oz/A	BB WB,PF 14, 28 dpPF	----	0.1 a	3.0 ab	0.7 a
9. Esteem 35WP Actara 25WDG + 0.25%oil Delegate WG + 0.25%oil	5.0 oz/A 5.5 oz/A 7.0 oz/A	BB WB,PF 14, 28 dpPF	----	0.2 a	2.0 ab	0.9 a
10. Esteem 35WP Assail 30SG + 0.25%oil Delegate WG + 0.25%oil	5.0 oz/A 5.5 oz/A 7.0 oz/A	DD WB,PF 14, 28 dpPF	----	0.5 a	4.2 b	0.8 ab
11. Esteem 35WP Calypso 4F + 0.25%oil Delegate WG + 0.25%oil	5.0 oz/A 8.0 oz/A 7.0 oz/A	BB WB,PF 14, 28 dpPF	----	0.3 a	2.5 ab	0.6 a
12. Untreated			0.0 a	1.8 b	6.1	2.3 bc
P value for transformed data			0.582	0.002	0.506	0.000

### Eggs

Table 10b Evaluations Of Insecticide Schedules For Controlling Early Season Insect Complex On Pear <sup>A</sup>.  
N.Y.S.A.E.S. Hudson Valley Lab. Highland N.Y. - 2011.

Treatment / Formulation	Rate	Application Timing	Mean number of Pear Psylla nymphs present		
			2 May	3 Jun	22 Jun
1. BioCover Hort. oil Damoil	1.0% v/v	WB, PF-EOS BB	0.0 a	0.0 ab	0.4 ab
2. Surround WP BioCover Hort. oil	50.0 lbs/A 1% v/v	D, WB, PF 2C-EOS	0.0 a	0.1 ab	0.5 abc
3. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A	BB WB PF	0.0 a	0.2 ab	0.9 bcd
4. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil HGW86 10SE + 0.25% oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 10.1 fl.oz/A	BB WB PF 14, 28 dpPF	----	0.2 ab	1.2 cd
5. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil HGW86 10SE + 0.25% oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 13.5 fl.oz/A	BB WB PF 14, 28 dpPF	----	0.2 ab	0.9 bcd
6. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil HGW86 10SE + 0.25% oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 16.9 fl.oz/A	BB WB PF 14, 28 dpPF	----	0.1 ab	1.3 d
7. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil Delegate 25WG + 0.25%oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 7.0 oz/A	BB WB PF 14, 28 dpPF	----	0.1 ab	0.5 abc
8. Esteem 35WP Calypso 4F + 0.25%oil Movento 240SC + 0.25%oil	5.0 oz/A 8.0 oz/A 9.0 fl.oz/A	BB WB, PF 14 28 dpPF	0.1 ab	0.0 a	0.4ab
9. Esteem 35WP Actara 25WDG + 0.25%oil Delegate WG + 0.25%oil	5.0 oz/A 5.5 oz/A 7.0 oz/A	BB WB, PF 14 28 dpPF	0.0 a	0.2 ab	0.1 a
10. Esteem 35WP Assail 30SG + 0.25%oil Delegate WG + 0.25%oil	5.0 oz/A 5.5 oz/A 7.0 oz/A	BB WB, PF 14, 28 dpPF	0.0 a	0.2 ab	0.2 a
11. Esteem 35WP Calypso 4F + 0.25%oil Delegate WG + 0.25%oil	5.0 oz/A 8.0 oz/A 7.0 oz/A	BB WB,PF 14, 28 dpPF	0.0 a	0.4 b	0.1 a
12. Untreated			0.2 b	0.4 ab	0.5 abc
P value for transformed data	0.028	0.429	0.002		

**Nymph**

**Table 10c** Evaluations Of Insecticide Schedules For Controlling Early Season Insect Complex On Pear. N.Y.S.A.E.S., Hudson Valley Lab., Highland, N.Y. - 2011.

Treatment	Formulation	Application Date	Mean number of Pear Psylla adults present	
			3 Jun	26 Jun
1. BioCover Hort. oil BioCover Hort. oil	3.0% v/v 1.0% v/v	D WB,PF-EOS	0.1 ab	0.0 abc
2. Surround WP BioCover Hort. oil	50.0 lbs/A 1% v/v	D,WB,PF 2C-EOS	0.2 c	0.0 ,b
3. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A	BB WB PF	0.1 abc	0.0 a
4. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil HGW86 10SE + 0.25% oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 10.1 fl.oz/A	BB WB PF 14,28dpPF	0.1 abc	0.1 cd
5. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil HGW86 10SE + 0.25% oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 13.5 fl.oz/A	BB WB PF 14,28dpPF	0.0 a	0.1 bcd
6. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil HGW86 10SE + 0.25% oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 16.9 fl.oz/A	BB WB PF 14,28dpPF	0.1 abc	0.1 cd
7. Esteem 35WP Centaur 0.7WDG + 0.25%oil AgriMek 0.15EC + 0.25%oil Delegate 25WG + 0.25%oil	5.0 oz/A 46.0 oz/A 16.0 fl.oz/A 7.0 oz/A	BB WB PF 14,28dpPF	0.1 abc	0.0 ab
8. Esteem 35WP Calypso 4F + 0.25%oil Movento 240SC + 0.25%oil	5.0 oz/A 8.0 oz/A 9.0 fl.oz/A	BB WB,PF	0.1 abc	0.0 ab
9. Esteem 35WP Actara 25WDG + 0.25%oil Delegate WG + 0.25%oil	5.0 oz/A 5.5 oz/A 7.0 oz/A	BB WB,PF 14,28dpPF	0.1 ab	0.0 ab
10. Esteem 35WP Assail 30SG + 0.25%oil Delegate WG + 0.25%oil	5.0 oz/A 5.5 oz/A 7.0 oz/A	BB WB,P 14,28dpPF	0.2 b,c	0.0 ab
11. Esteem 35WP Calypso 4F + 0.25%oil Delegate WG + 0.25%oil	5.0 oz/A 8.0 oz/A 7.0 oz/A	BB WB,PF 14,28dpPF	0.1 ab	0.0 ab
12. Untreated			0.4 d	0.1 d
P value for transformed data			0.001	0.012

**Adult**