



CROP WATCH

Tables for the June 20, 2003 *CropWatch*, No. 2003-15

Potato leafhoppers have arrived; scout alfalfa

Tables 1-4

Table 1. Dynamic treatment thresholds for potato leafhoppers (average number per sweep) on alfalfa that is 1 to 4 inches tall.

Value of hay (per ton)	Cost of insecticide application (per acre)					
	\$8	\$10	\$12	\$14	\$16	\$20
\$ 60	0.40	0.50	0.60	0.70	0.80	1.00
\$ 80	0.30	0.40	0.50	0.50	0.60	0.75
\$100	0.25	0.30	0.40	0.40	0.50	0.60
\$120	0.20	0.25	0.30	0.35	0.40	0.50
\$140	0.20	0.20	0.25	0.30	0.30	0.40
\$160	0.15	0.20	0.30	0.30	0.30	0.40

Table 4 is on page 2

Table 2. Dynamic treatment thresholds for potato leafhoppers (average number per sweep) on alfalfa that is 4 to 8 inches tall.

Value of hay (per ton)	Cost of insecticide application (per acre)					
	\$8	\$10	\$12	\$14	\$16	\$20
\$ 60	0.70	0.80	1.00	1.00	1.30	1.70
\$ 80	0.60	0.60	0.75	0.90	1.00	1.30
\$100	0.40	0.50	0.60	0.70	0.80	1.00
\$120	0.30	0.40	0.50	0.60	0.70	0.80
\$140	0.30	0.35	0.40	0.50	0.60	0.70
\$160	0.25	0.30	0.40	0.40	0.50	0.60

Table 3. Dynamic treatment thresholds for potato leafhoppers (average number per sweep) on alfalfa that is 8 to 12 inches tall.

Value of hay (per ton)	Cost of insecticide application (per acre)					
	\$8	\$10	\$12	\$14	\$16	\$20
\$ 60	2.00	2.40	2.80	3.00	3.90	5.00
\$ 80	1.80	1.90	2.20	2.70	3.00	4.00
\$100	1.20	1.50	1.80	2.10	2.40	3.00
\$120	0.90	1.20	1.50	1.80	2.10	2.40
\$140	0.90	1.00	1.20	1.50	1.80	2.00
\$160	0.80	0.90	1.00	1.20	1.50	1.80

Table 4. Insecticides registered for control of potato leafhopper

<i>Product Name</i>	<i>Common Name</i>	<i>Rate</i>	<i>Restrictions/ Comments</i>
R Ambush 2 E or Ambush 25 W or Ambush 25W WP	permethrin	3.2 -12.8 oz/acre 6.4 oz or less Over 6.4	0 phi (phi) 14 day phi
R Baythroid 2	cyfluthrin	0.8 -1.6 oz/acre	7 day phi
Cythion 5	malathion	1.5 - 2.0 pts/acre	0 phi
Cythion 8	malathion	1.25 - 1.5 pts/acre	0 phi
R Furadan 4 F	carbofuran	1.0 - 2.0 pts/acre 1.0 pt 2.0 pt	14 day phi 28 day phi
Imidan 70-WSB	phosmet	1.3 lbs/acre	7 day phi
Lorsban 4 E	chlorpyrifos	0.5 - 1.0 pts/acre 0.5 pt 1 pt	7 day phi 14 day phi
Malathion 57 EC	malathion	1.5 - 2.25 pts/acre	0 phi
R Penncap-M	methyl parathion	2 - 3 pts/acre	15 day phi
R Mustang MaxZeta-cypermethrin		2.24 - 4.0 oz/acre	
		phi of 3 days cutting or grazing and 7 days harvesting seed	
R Pounce 3.2 E	permethrin	4 - 8 oz/acre 4 oz Over 4 oz	0 phi 14 day phi
R Pounce 25 WP	permethrin	6.4 to 12.8 oz/acre 6.4 oz Over 6.4 oz	0 phi 14 day phi
R Pounce WSB	permethrin	0.1 - 0.2 lb/acre 0.1 lb Over 0.1 lb	0 phi 14 day phi
Sevin 4 F	carbaryl	1.0 qt/acre	7 day phi
Sevin 50 W	carbaryl	2 lbs/acre	7 day phi
Sevin 80 WSP or 80 S	carbaryl	1.25 lbs/acre	7 day phi
Sevin XLR	carbaryl	1.0 qt/acre	7 day phi
R Warrior	lambda-cyhalothrin	1.92 - 3.2 oz/acre	7 day phi
R - Restricted Use	phi = preharvest interval		