



# CropWatch

Table  
Addendum  
June 17, 2005

Published by University of Nebraska Cooperative Extension in the Institute of Agriculture and Natural Resources

## Potato leafhoppers have arrived; scout alfalfa

For the full story see the June 17, 2005 *CropWatch* at <http://cropwatch.unl.edu/archives/2005/crop05-14.htm>

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)					
	<b>\$8</b>	<b>\$10</b>	<b>\$12</b>	<b>\$14</b>	<b>\$16</b>	<b>\$20</b>
<b>\$ 60</b>	0.40	0.50	0.60	0.70	0.80	1.00
<b>\$ 80</b>	0.30	0.40	0.50	0.50	0.60	0.75
<b>\$100</b>	0.25	0.30	0.40	0.40	0.50	0.60
<b>\$120</b>	0.20	0.25	0.30	0.35	0.40	0.50
<b>\$140</b>	0.20	0.20	0.25	0.30	0.30	0.40
<b>\$160</b>	0.15	0.20	0.30	0.30	0.30	0.40

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)					
	<b>\$8</b>	<b>\$10</b>	<b>\$12</b>	<b>\$14</b>	<b>\$16</b>	<b>\$20</b>
<b>\$ 60</b>	0.70	0.80	1.00	1.00	1.30	1.70
<b>\$ 80</b>	0.60	0.60	0.75	0.90	1.00	1.30
<b>\$100</b>	0.40	0.50	0.60	0.70	0.80	1.00
<b>\$120</b>	0.30	0.40	0.50	0.60	0.70	0.80
<b>\$140</b>	0.30	0.35	0.40	0.50	0.60	0.70
<b>\$160</b>	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)					
	<b>\$8</b>	<b>\$10</b>	<b>\$12</b>	<b>\$14</b>	<b>\$16</b>	<b>\$20</b>
<b>\$ 60</b>	2.00	2.40	2.80	3.00	3.90	5.00
<b>\$ 80</b>	1.80	1.90	2.20	2.70	3.00	4.00
<b>\$100</b>	1.20	1.50	1.80	2.10	2.40	3.00
<b>\$120</b>	0.90	1.20	1.50	1.80	2.10	2.40
<b>\$140</b>	0.90	1.00	1.20	1.50	1.80	2.00
<b>\$160</b>	0.80	0.90	1.00	1.20	1.50	1.80

See Page 2 for Table 4.

## Potato leafhopper

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 oz/acre	0 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 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
R Proaxis	gamma-cyhalothrin	1.92-3.2 oz/ac	1 day forage phi 7 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**

## Glyphosate tank mixes

See story in the June 17 *CropWatch* at <http://cropwatch.unl.edu/archives/2005/crop05-14.htm>

Table 1. Weed species and their heights at the time of herbicide application, and level of weed control (%) at 21 days after application with 22 oz of Roundup WeatherMax® tank mixed with various herbicides at the NEREC Haskell Ag Lab farm in 2004 (preliminary data).

Weed height (inches)	Roundup (22 oz) + Classic (0.3oz)	Roundup (22 oz) + Phoenix (5 oz)	Roundup (22 oz) + Raptor (3 oz)	Extreme alone (48 oz)	Roundup (22 oz) + Flexstar (8 oz)	Roundup (22 oz) + Scepter (1.44 oz)	Roundup (22 oz) + Ultra Blazer (12 oz)
<b>Field bindweed</b>							
3	95	100	100	100	87	93	100
6	90	90	93	84	88	90	97
9	75	87	87	73	88	90	86
<b>Ivyleaf morningglory</b>							
4	82	73	72	73	67	67	73
8	33	47	50	27	65	43	63
12	48	45	27	20	63	32	57
<b>Kochia</b>							
4	100	97	100	100	93	100	93
12	97	93	95	98	97	100	97
20	92	90	93	93	97	95	95
<b>Russian thistle</b>							
5	100	97	100	100	93	100	100
10	100	100	100	100	100	100	100
15	100	98	100	100	100	100	100
<b>Yellow sweetclover</b>							
4	90	83	83	78	97	70	100
8	40	53	43	38	90	47	95
1	41	01	73	17	33	13	35
<b>Velvetleaf</b>							
5	90	93	100	98	92	98	85
10	77	95	92	92	85	90	92
21	48	88	83	82	77	83	87
<b>Venice mallow</b>							
6	85	93	82	85	78	78	77
10	73	68	80	60	67	78	78
18	73	72	57	33	68	78	68
<b>Common waterhemp</b>							
4	100	100	100	100	93	100	92
9	85	80	95	97	87	93	80
14	75	77	83	83	82	87	78
<b>Wild buckwheat</b>							
3	83	93	83	100	87	87	88
6-12 inch runners	53	90	70	63	78	75	85
6-24 inch runners	50	67	68	57	73	68	75
<b>Volunteer RR-corn</b>							
V5 (10-12 inches)	53	20	100	77	34	92	48
V8 (18-20 inches)	10	17	77	70	27	82	47
V10 (30-36")	10	17	68	57	40	65	22