

## 2003 FALL POTATOES CHEMICAL USAGE

The 10 survey states totaled 1.0 million planted acres in 2003. Nitrogen was applied to 100 percent of the fall potato acreage in the ten Program States which includes Colorado, Idaho, Maine, Michigan, Minnesota, North Dakota, Oregon, Pennsylvania, Washington, and Wisconsin. Nitrogen applications averaged 4.0 per acre. Phosphate was applied to 94 percent of the fall potato acreage and potash was applied to 88 percent in the States surveyed.

Herbicides were applied to 91 percent of the fall potato acreage in 2003 in the ten Program States. Metribuzin was the most widely applied herbicide, applied to 69 percent of the planted acreage being treated. Insecticide applications were reported on 84 percent of the total fall potato planted acreage, while fungicide applications were reported on 91 percent.

### FALL POTATOES: Acreage, Percent Receiving Chemicals, Number of Applications, Rates per Application, Major States, 2003

State	Area Planted	Nitrogen			Phosphate			Potash			Herbicide	Insecticide
		Area Applied 1/	Applications	Rate per Application	Area Applied 1/	Applications	Rate per Application	Area Applied 1/	Applications	Rate per Application	Area Applied 1/	Area Applied 1/
	1,000											
	Acres	Percent	Number	Pounds	Percent	Number	Pounds	Percent	Number	Pounds	Percent	Percent
<b>MN</b>	<b>60</b>	<b>100</b>	<b>2.2</b>	<b>65</b>	<b>94</b>	<b>1.1</b>	<b>74</b>	<b>92</b>	<b>1.3</b>	<b>113</b>	<b>94</b>	<b>69</b>
ND	117	97	3.6	40	92	1.4	64	84	1.2	112	82	80
WI	81	100	6.6	37	99	2.1	70	100	3.9	80	94	99
<b>Total 2/</b>	<b>1,024</b>	<b>100</b>	<b>4.0</b>	<b>53</b>	<b>94</b>	<b>1.7</b>	<b>94</b>	<b>88</b>	<b>1.6</b>	<b>106</b>	<b>91</b>	<b>84</b>

1/ Refers to acres receiving one or more applications of a specific chemical.

2/ Refers to ten majors fall potato states including; CO, ID, ME, MI, MN, ND, OR, PA, WA and WI.

### FALL POTATOES: Frequency and Extent of Usage by Active Ingredient, Minnesota, 2003 1/

Active Ingredient	Area Applied 2/	Applications	Rate per Application	Rate per Year	Total Applied
	Percent	Number	Lbs. Per Acre	Lbs. Per Acre	1,000 Pounds
<b>Herbicides</b>					
Linuron	9	1.0	1.01	1.01	6
Metribuzin	57	1.0	0.39	0.42	14
Rimsulfuron	16	1.0	0.02	0.02	3/
S-Metolachlor	11	1.0	1.07	1.07	7
<b>Insecticides</b>					
Cyfluthrin	26	1.2	0.03	0.03	1
Esfenvalerate	16	1.6	0.02	0.03	3/
Imidacloprid	37	1.4	0.08	0.11	3
Thiamethoxam	28	1.1	0.03	0.04	1
<b>Fungicides</b>					
Azoxystrobin	27	1.6	0.11	0.19	3
Chlorothalonil	66	4.7	0.90	4.30	171
Mancozeb	66	3.9	1.38	5.42	216
Mefenoxam	30	1.0	0.45	0.45	8
Metiram	17	2.7	1.27	3.45	35
Triphenyltin hydrox	29	2.4	0.12	0.28	5
<b>Other Chemicals</b>					
Diquat	57	1.4	0.36	0.52	18

1/ Planted acres in 2003 for Minnesota were 60,000 acres.

2/ Refers to acres receiving one or more applications of a specific chemical.

3/ Total applied is less than 500 lbs.