



United States Department of Agriculture

WA Potato Postharvest Chemical Usage Release

National
Agricultural
Statistics
Service

Washington Field Office

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Posted online April 11, 2007

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WASHINGTON'S POTATO POSTHARVEST CHEMICAL USAGE

Potato Overview: The agricultural chemical use estimates in this report are based on data compiled from the 2006 Potato Postharvest Chemical Use Survey, which was conducted July through October 2006. The Postharvest Survey was conducted for potatoes marketed from August 1, 2005 to July 31, 2006 which covers the 2005 crop. All results refer to pesticide applications and integrated pest management at off-farm warehouses, shippers, and processors and farms with storage facilities. Results also include postharvest treatments on potatoes intended for non-human consumption such as seed use.

There were 615 warehouse, shipper, processor, and grower reports summarized across 9 States. The data shown in this release is excerpted from the U.S. release. The U.S. map below shows the number of summarized reports by State. To view the complete report, go to the website:

www.nass.usda.gov/Publications/Reports_By_Date/2007/March_2007.asp

Number of Usable Potatoes Postharvest Reports
2005-06 Marketing Year



**Potatoes: Postharvest Chemical Applications,
Pacific Northwest, 2005-06 Marketing Year**

Agricultural Chemical	Volume Treated	Applications	Rate per Application	Rate per Mkt. Year	Total Applied
	<i>Percent</i>	<i>Number</i>	<i>Pounds per Cwt.</i>	<i>Pounds per Cwt.</i>	<i>1,000 Lbs</i>
Calcium hypochlorite					
Idaho	14.4	1.0	*	*	4.2
United States	5.4	1.0	*	*	4.2
Chlorine dioxide					
Idaho	4.5	1.0	*	*	0.1
United States	2.9	1.0	*	*	0.1
Chlorpropham					
Idaho	50.6	1.1	0.001	0.001	74.7
Oregon	56.5	1.0	*	*	6.8
Washington	41.8	1.1	*	*	18.0
United States	47.5	1.1	0.001	0.001	168.1
Fludioxinil					
United States	0.1	1.0	*	*	1/
Hydrogen peroxide					
Idaho	6.0	1.1	*	*	0.7
United States	3.0	1.1	*	*	0.8
Napthalene					
Idaho	7.6	1.0	0.001	0.001	7.1
Washington	1.5	1.0	*	*	0.3
United States	5.0	1.0	*	*	10.7
Sodium hypochlorite					
United States	0.3	1.3	*	*	1/
Thiabendazole (TBZ)					
United States	0.6	1.0	*	*	0.3

* Rate applied less than 0.0005 pounds.

1/ Total applies less than 50 pounds.

Operations in the following States applied the listed chemicals to potatoes after harvest. However, there were insufficient number of reports to publish State level usage data. **Idaho:** chlorine, peroxyacetic acid, phosphorus acid, pseudo-syring ESC-10, sodium hypochlorite, and thiabendazole (TBZ). **Oregon:** chlorine dioxide, naphthalene, and thiabendazole (TBZ). **Washington:** bacillus subtilis, chlorine dioxide, and hydrogen peroxide (dioxide).

**Potatoes: Postharvest Chemical Applications,
Percent Treated and Total Applied,
Program States, 2005-06 Marketing Year 1/**

State	Volume Handled	Percent Treated and Total Applied					
		Insecticide		Fungicide		Other Chemical	
	<i>1,000 Cwt.</i>	<i>Percent</i>	<i>1,000 Lbs.</i>	<i>Percent</i>	<i>1,000 Lbs.</i>	<i>Percent</i>	<i>1,000 Lbs.</i>
ID	165,139			0.6	1.0	58.8	86.9
OR	30,610			*	*	67.0	7.1
WA	126,779			*	*	43.9	18.4
Program States 2/	444,876	*	*	0.8	2.3	52.6	184.1

* Insufficient reports to publish data.

1/ Blank cells represent no data reported for the item.

2/ States include: CO, ID, ND, ME, MI, MN, OR, WA, and WI.

**Potatoes: Pest Management Practices,
Percent of Operations Utilizing Practice,
Program States, 2005-06 Marketing Year 1/**

Practice	State			
	ID	OR	WA	Nine States 2/
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Mechanical Devices:				
Aeration controller	74	76	43	57
Re-circulation fumigation device	25	31	32	17
Cleaning Activities:				
Clean aeration ducts	78	95	73	77
Clean and disinfect potato warehouses	87	100	76	88
Clean and sanitize packing/processing facilities	79	93	71	81
Control vegetation	97	100	81	92
Pick up spilled potatoes/clean surrounding areas	96	100	79	92
Use pest/rodent control measures	56	45	69	68
Other activities				*

* Less than 0.5 %.

1/ Blank cells represent no data reported for the item.

2/ Nine States include: CO, ID, ND, ME, MI, MN, OR, WA and WI.

**Potatoes: Pest Management Practices,
Percent of Operations Utilizing Practice,
Program States, 2005-06 Marketing Year 1/ 2/**

Practice	State			
	ID	OR	WA	Nine States 3/
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Inspected for insects:				
Automatically	2		9	3
Hourly	*			*
Daily	18	21	15	22
Twice a week	14	7	13	10
Weekly	39	17	40	31
Other	4	24	2	5
Do not monitor	22	31	21	29
Measured Potato Temperature and/or Humidity:				
Automatically	7	19	33	16
Hourly	1		3	1
Daily	65	45	36	54
Twice a week	14	10	8	11
Weekly	10	17	11	11
Other	*	7		1
Do not monitor	3	2	9	7

* Less than 0.5%.

1/ Numbers for each type of structure may not add to 100 due to rounding.

2/ Blank cells represent no data reported for the item.

3/ Nine States include: CO, ID, ND, ME, MI, MN, OR, WA and WI.

Pesticide Classes, Common Names, and Trade Names

The following is a list of the pesticide classes, common names, and trade names of active ingredients in this publication. The classes are Insecticide(I), Fungicides (F), and Other chemicals (O). This list is provided as an aid in reviewing pesticide data. Pre-mixes are not cataloged. The list is not complete for all pesticides used on postharvest commodities and NASS does not mean to promote the use of any specific trade name.

Classes	Common Names	Trade Names
I	Aluminum phosphide	Aluminum Phosphide 55%, Gastoxin Fumigation Tablets, Fumitoxin Tablets (55%) Fumitoxin Pellets, Phostoxin Pellets, Weevil-Cide 60% Pellets
F	Bacillus subtilis	Seranade Max, Serenada ASO
O	Calcium hypochlorite	HTH 300 Gram Tablets, Calcium Hypochlorite
O	Chlorine	Drench-Chlor
O	Chlorine dioxide	Oxine, OxyFresh, Purogene
O	Chlorpropham	IVI Sprout Block CIPC 98%,CIPC 7A, Decco 270 Aerosol Decco 271 Aerosol, Decco 276 EC, Pin Nip 98.6, Sprout Nip 7A, Sprout Nip EC, Spud Nip-4, CIPC 2 EC, CIPC 98A, Pin Nip EC 2 EC, Shelf Life 2EC, IVI Sprout Block 2 EC, Pin Nip Technical Chlorpropham
I	Cyfluthrin	Tempo SC Ultra
F	Fludioxonil	Maxim MZ, Maxim 4FS
O	Hydrogen peroxide	OxiDate, Tsunami 100 aka Oxy-15, StorOx
I	Imidacloprid	Tops-MZ-Gaicho
I	Malathion	Malathion 57 EC, 6% Grain Protector, Malathion Spray
F	Mancozeb	Mancozeb 6% Firbark, Maxim MZ, Tops-Mz-Gaicho
I	Methoprene	Dicaon II
I	Methyl bromide	Meth-O-Gas 100, Methyl Bromide 100
O	Napthalene	1,4SHIP RTU Aerosol, 1,4Sight, Amplify Sprout Inhibitor
O	Peroxyacetic acid	Tsunami 100 aka Oxy-15
F	Phosphorous acid	Phostrol
F	Pseudo syring ESC-10	Bio-Save 10 LP
I	Silicon dioxide	Diatomaceous Earth Insecticide
O	Sodium hypochlorite	Agclor 310, Bleach, All Liquid Bleach, Sodium Hypochlorite Sanitizer, Chlorguard II Chlorinating Solution
F	Thiabendazole (TBZ)	Decco Salt No.19, Mertect 340-F
F	Thiophanate-methyl	Tops-MZ-Gaicho