



# New England Agricultural Statistics



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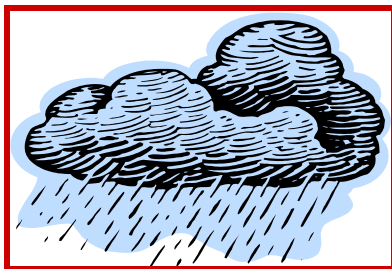
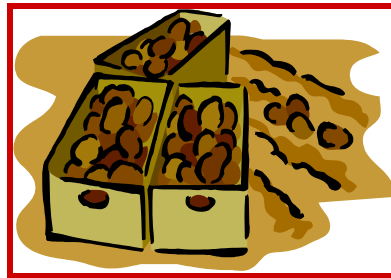
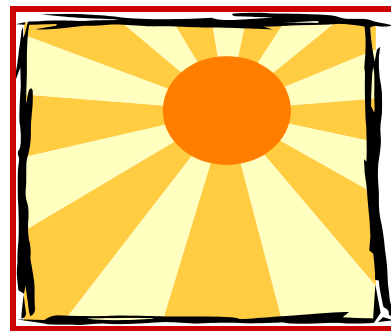
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United States Department of Agriculture

## Maine Potatoes Acreage, Yield, Size and Grade, 2006 Crop January 12, 2007

A special "THANK YOU" goes to Maine growers who have helped us by participating in the Potato Objective Yield Survey program. The study estimates yield, size and grade from randomly selected hills that are dug just before harvest.

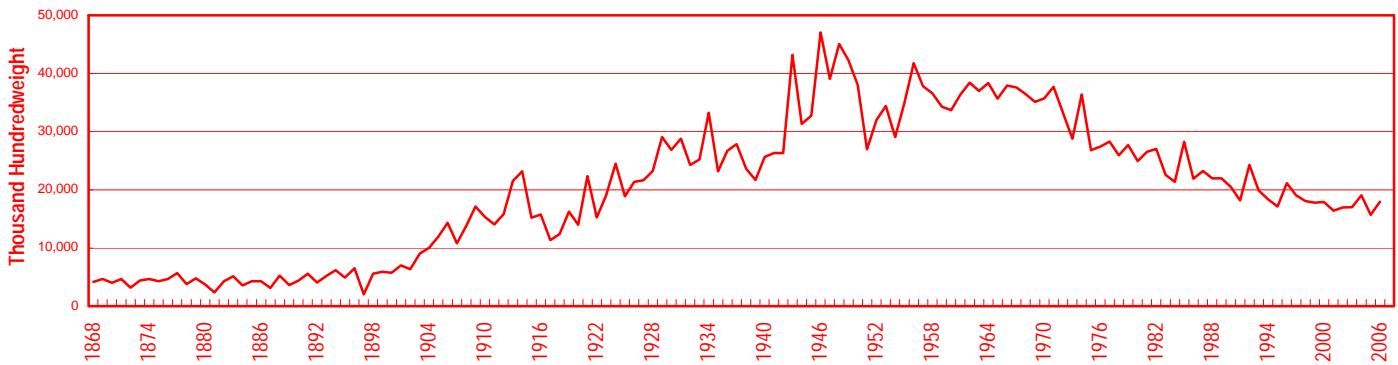


This report is funded through a cooperative agreement with the Maine Department of Agriculture as a service to growers and others in the industry. It is published annually and is available on the Internet in mid-January.

**TABLE OF CONTENTS**

<b>Table Name</b>	<b>Table Number</b>	<b>Page</b>
Acres, Yield, and Production (Maine only).....	1	4
Percent of Acres Planted by Variety .....	2	4
Number of Tubers per Hill and Hills per Acre by Type.....	3	5
Percent of Net Yield by Weight within Size Groups:.....		
Round Whites.....	4A	5
Long Whites (Shepody).....	4B	5
Russets .....	4B	5
Percent of Net Yield by Weight within Grade, by Type .....	5	6
Harvest Loss by Size:		
Round Whites.....	6A	6
Long Whites .....	6B	6
Russets .....	6B	6
Planting Progress.....	7	7
Potato Stocks Held by Growers, Local Dealers, and Processors, by Month.....	8	7
Prices Received. ....	9	7
Acres, Yield and Production of Fall Potatoes (United States).....	10	8

**Maine Fall Potatoes  
Production 1868 - 2006**



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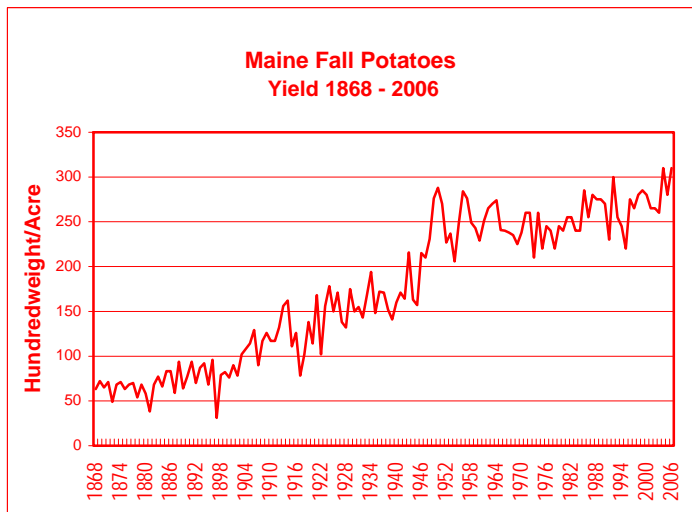
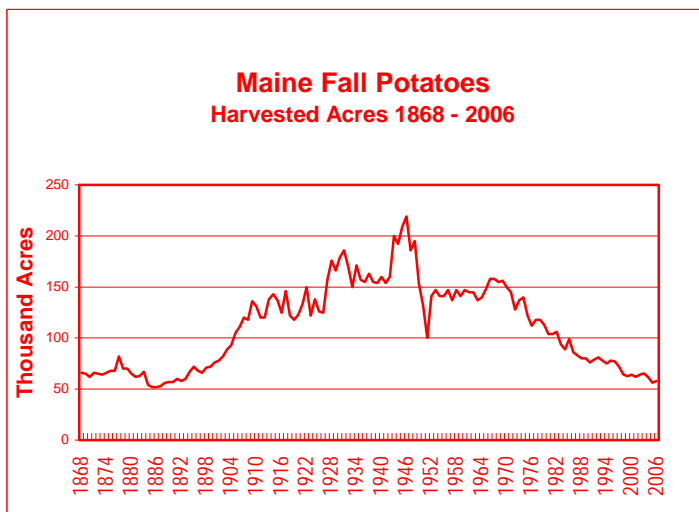
## Maine Potatoes Acreage, Yield, Size and Grade, 2006 Crop

**FORWARD:**

We are pleased to present the Maine Acreage, Yield, Size and Grade Report for the 2006 potato crop. Data contained in this report are based on the results of the Potato Objective Yield Survey, a project conducted annually since 1968. The National Potato Objective Yield program encompasses seven of the major fall potato producing states (Idaho, Maine, Minnesota, North Dakota, Oregon, Washington and Wisconsin) that grew 83 percent of the United States fall potato crop in 2006.

The 2006 Potato Objective Yield Survey in Maine consisted of 210 “samples” chosen by systematic random sampling. Each sample consisted of two independently located units. Within each unit, hill counts were made along a 20-foot length of the row, width of the row was measured, and three hills were harvested. Thus, tubers were harvested from six hills of potatoes for each sample. These potatoes were graded, sized, and weighed using strict laboratory procedures. After harvest, enumerators returned to one-fourth of the sample fields to obtain an objective indication of harvest loss. Tubers were collected from two units, each unit covering a three foot by six foot area, and sent to the lab for weighing.

The success of this project must be credited to the cooperation of many potato growers across the State of Maine. We sincerely appreciate their time and efforts in supplying crop information, and granting permission for field entry and sample diggings. The 2006 Maine Potato Objective Yield survey was under the leadership of Statistician John Miyares. Data collection was supervised by NASDA field supervisors Deb Belanger and Bill Turner. NASDA field enumerators included Keith Boulier, Margaret Wolverton, Tina LaVoie, Scott Knowlton, Alina Mushero, Shannon Lion and Julie Kosch. Lab supervision was under the direction of John Bourgoine. Robin Helrich was responsible for setting the estimates of acreage, yield, production, prices, and stocks. We would also like to recognize Lynne Arsenault and Deirdre Davis for their assistance in preparing this publication.



**Table 1: MAINE POTATOES: Acres, Yield and Production, 2001 – 2006**

Year	Area		Yield per Acre	Production
	Planted	Harvested		
	Acres		Cwt	1,000 Cwt
2001	62,500	62,000	265	16,430
2002	64,500	64,000	265	16,960
2003	66,000	65,500	260	17,030
2004	63,500	61,500	310	19,065
2005	57,500	56,200	275	15,455
2006	58,500	58,000	315	18,270

SOURCE: *Crop Production – Annual*, 8:30 a.m., January 12, 2007, National Agricultural Statistics Service, USDA.

**Table 2: MAINE POTATOES: Percent of Acres Planted by Variety, 2001 – 2006**

Variety and Type	2001	2002	2003	2004	2005	2006
<b>By Variety:</b>	Percent					
Russet Burbank	29.1	36.4	33.2	36.7	42.5	42.5
Frito-Lay, All	12.6	10.9	11.9	11.5	17.1	17.1
Shepody	11.4	9.2	9.8	9.3	7.2	5.2
Superior	8.9	7.2	6.1	3.0	3.4	4.5
Katahdin	3.9	1.6	2.5	2.5	2.4	3.1
Yukon Gold	2.2	1.4	2.0	3.3	2.8	3.0
Ontario	7.3	9.7	8.3	5.5	2.8	2.9
Norland	1.6	1.6	1.9	2.5	2.3	2.4
Norwis	2.4	2.2	2.4	2.2	2.4	2.3
Russet Norkotah	3.5	4.7	4.4	3.0	1.6	2.1
Reba (NY 87)	1/	1/	1.7	1.7	1.4	2.1
Snowden	1.5	1.4	2.2	2.3	2.2	2.1
Monona	1/	1/	1/	1.7	1.0	1.9
Atlantic	3.6	3.4	3.5	3.0	3.5	1.5
Goldrush	1.7	1.1	1.6	1.9	2.7	1.0
Andover	1/	1/	1/	1/	1/	1.0
Mainstay	1/	1/	1/	1.0	1/	1/
Chieftain	2.2	1.8	1.4	1.3	1/	1/
Centennial Russet	1/	1/	1/	1.2	1/	1/
Other Varieties	8.1	7.4	7.1	6.4	4.7	5.3
Total Varieties	100.0	100.0	100.0	100.0	100.0	100.0
<b>By Type:</b>						
Reds	5.0	4.0	4.0	5.5	3.5	3.6
White (Long and Round)	60.0	53.0	56.0	51.0	49.5	50.6
Russet Varieties	35.0	43.0	40.0	43.5	47.0	45.8
Total Varieties	100.0	100.0	100.0	100.0	100.0	100.0

<sup>1/</sup> Average price of potatoes sold for fresh market, processing, seed, and feed.

<sup>2/</sup> Missing data indicates too few potatoes being marketed to set price.

<sup>3/</sup> Most recent monthly price is a preliminary mid-month forecast.

SOURCE: *Agricultural Prices*, 3:00 p.m., October 31, 2006, National Agricultural Statistics Service, USDA.

#### NASS Notes:

##### What is a Farm?

The census definition of a farm is any place from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the census year. The definition was changed nine times since it was established in 1850. The current definition was first used for the 1974 Census of Agriculture and has been used in each subsequent agriculture census and related surveys. This definition is consistent with the definition used for current USDA surveys.

SOURCE: *2002 Census Of Agriculture*, National Agricultural Statistics Service, USDA.

**Table 3: MAINE POTATOES: Number of Tubers <sup>1/</sup> per Hill and Hills per Acre, by Type, 2001 – 2006**

Year	Round Whites		Long Whites		Russets		All Varieties <sup>2/</sup>	
	Tubers <sup>1/</sup> per Hill	Hills per Acre	Tubers <sup>1/</sup> per Hill	Hills per Acre	Tubers <sup>1/</sup> per Hill	Hill per Acre	Tubers <sup>1/</sup> per Hill	Hills per Acre
2001	6.2	13,509	6.4	12,722	9.4	9,304	7.5	11,862
2002	7.4	13,803	5.6	12,230	10.7	9,596	8.5	11,948
2003	7.8	13,521	6.8	12,021	10.5	9,731	8.9	11,729
2004	8.5	13,609	6.8	13,024	10.7	10,012	9.3	11,969
2005	7.3	12,494	6.7	10,402	9.8	9,007	8.6	10,595
2006	8.0	12,604	6.0	13,149	10.9	10,208	9.1	11,613

<sup>1/</sup> Tubers 1½ inches and over.

<sup>2/</sup> Includes Red varieties.

**Table 4A: MAINE POTATOES: Percent of Net Yield <sup>1/</sup> by Weight within Size Groups Round Whites, 2001 – 2006**

Size	Round Whites					
	2001	2002	2003	2004	2005	2006
	Percent					
1 ½" - under 1 7/8"	2	4	3	2	2	2/
1 7/8" - under 2"	3	4	4	3	3	2
2" - under 2 ¼"	9	14	14	10	9	11
2 ¼" - under 2 ½"	13	22	20	16	15	18
2 ½" - under 3 ½"	62	50	55	63	61	64
3 ½" - under 4"	9	4	3	6	9	4
4" and over	2	2	1	2/	1	1

<sup>1/</sup> Adjusted for harvest loss.

<sup>2/</sup> Less than one percent.

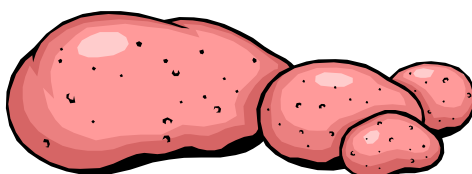
**Table 4B: MAINE POTATOES: Percent of Net Yield <sup>1/</sup> by Weight within Size Groups Long Whites and Russets, 2001 – 2006**

Size	Long Whites ( <i>Shepody</i> )						Russets					
	2001	2002	2003	2004	2005	2006	2001	2002	2003	2004	2005	2006
	Percent											
1 ½" - under 1 7/8"	3	8	6	1	5	1	4	6	10	3	4	6
1 7/8" - under 2"	8	8	5	2	1	3	6	6	8	4	4	7
2" and over:												
4 oz - under 6 oz <sup>2/</sup>	36	38	30	15	27	22	31	36	33	29	32	35
6 oz - under 8 oz	19	22	25	21	18	19	18	20	21	21	18	19
8 oz - under 10 oz	17	9	19	18	19	19	16	12	11	15	15	12
10 oz and over	17						25					
10 oz - under 12 oz <sup>3/</sup>		7	4	17	13	9		8	8	9	10	8
12 oz - under 14 oz <sup>3/</sup>		2	8	8	9	12		5	5	6	6	4
14 oz and over <sup>3/</sup>		6	3	18	8	15		7	4	13	11	9

<sup>1/</sup> Adjusted for harvest loss.

<sup>2/</sup> Includes potatoes two inches or greater weighing less than four ounces.

<sup>3/</sup> Unavailable prior to 2002.



**Table 5: MAINE POTATOES: Percent of Net Yield by Weight within Grade, <sup>1/</sup> by Type, 2001 – 2006**

Grade	Round Whites						Long Whites						Russets					
	2001	2002	2003	2004	2005	2006	2001	2002	2003	2004	2005	2006	2001	2002	2003	2004	2005	2006
No. 1 2 Inch Minimum <sup>2/</sup>	83	83	77	85	83	78	61	73	62	69	81	60	75	77	61	70	74	63
No. 2 or Processing Usable 1 1/2 Inch Minimum <sup>3/</sup>	10	11	11	8	8	10	20	19	19	11	11	17	15	16	22	13	16	21
Cull <sup>4/</sup>	7	6	12	7	9	12	19	8	19	20	8	23	10	7	17	17	10	16

<sup>1/</sup> Percent of net yield – adjusted for field loss. Reflects condition before harvest or handling damage.

<sup>2/</sup> Potatoes which meet the requirements for US #1, as stated in U.S. Standards for Grades of Potatoes, USDA, Agriculture Marketing Service.

<sup>3/</sup> Potatoes which meet the requirements for US #2, as stated in U.S. Standards for Grades of Potatoes, USDA, Agriculture Marketing Service.

<sup>4/</sup> Potatoes not meeting the requirements for US #1 or US #2, as stated in U.S. Standards for Grades of Potatoes, USDA, Agriculture Marketing Service.

**Table 6A: MAINE POTATOES: Harvest Loss <sup>1/</sup> by Size, Round Whites, 2001 – 2006**

Size	Round Whites					
	2001	2002	2003	2004	2005	2006
	Cwt per Acre					
1 1/2" – under 1 7/8"	4	4	4	3	1	7
1 7/8" – under 2"	2	3	2	2	1	3
2" – under 2 1/4"	1	3	2	3	4	5
2 1/4" – under 2 1/2"	2	2	3	3	3	3
2 1/2" – under 3 1/2"	3	4	4	3	6	4
3 1/2" – under 4"	0	0	0	1	0	0
4" and over	0	0	0	0	0	0
<b>Total <sup>1/</sup></b>	<b>12</b>	<b>16</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>22</b>

<sup>1/</sup> Includes United States No. 1, United States No. 2 and Culls.

**Table 6B: MAINE POTATOES: Harvest Loss <sup>1/</sup> by Size, Long Whites and Russets, 2001 – 2006**

Size	Long Whites						Russets					
	2001	2002	2003	2004	2005	2006	2001	2002	2003	2004	2005	2006
	Percent											
1 1/2" - under 1 7/8"							9	5	5	8	3	6
1 7/8" - under 2"							2	3	2	4	2	3
2" and over:												
4 oz - under 6 oz <sup>2/</sup>							5	6	7	9	6	9
6 oz - under 8 oz							3	1	1	4	2	3
8 oz - under 10 oz							1	4/	3	1	1	0
10 oz and over							0	0	4	4	1	2
<b>Total <sup>3/</sup></b>	<b>14</b>	<b>16</b>	<b>15</b>	<b>37</b>	<b>17</b>	<b>12</b>	<b>20</b>	<b>15</b>	<b>22</b>	<b>30</b>	<b>15</b>	<b>23</b>

<sup>1/</sup> Includes United States No. 1, United States No. 2, and Culls.

<sup>2/</sup> Includes potatoes two inches or greater weighing less than four ounces.

<sup>3/</sup> Long white totals by size unavailable.

<sup>4/</sup> Less than 0.5 cwt per acre.



**Table 7: MAINE POTATOES: Planting Progress, 2001 – 2006**

Size	Percent of Acres Planted Weekly						Accumulated Percent of Acres					
	2001	2002	2003	2004	2005	2006	2001	2002	2003	2004	2005	2006
	Percent											
Before May 1	1	0	0	0	0	2	1	0	0	0	0	2
May 8	10	22	4	4	0	15	11	22	4	4	0	17
May 15	36	23	6	40	5	40	47	45	10	44	5	57
May 22	35	22	40	37	5	5	82	67	50	81	10	62
May 29	12	24	36	14	15	25	94	91	86	95	25	87
June 5	2	8	12	3	50	10	96	99	98	98	50	97
After June 5	4	1	2	2	25	3	100	100	100	100	100	100

**Table 8: <sup>1/</sup> MAINE POTATOES: Potato Production and Stocks by Month, 2000 – 2005 Crop Years**

Crop Year	Production	Stocks Held by Growers, Local Dealers, and Processors						
		Year	Following Year					
		December 1	January 1	February 1	March 1	April 1	May 1	June 1
		1,000 cwt						
2000	17,920	14,100	12,500	10,900	8,700	6,600	4,000	1,900
2001	16,430	12,200	10,800	8,900	7,100	5,300	3,300	1,800
2002	16,960	12,600	11,200	9,500	8,000	6,300	3,900	2,100
2003	17,030	13,500	12,100	10,500	8,900	6,500	4,100	2,300
2004	19,065	15,000	12,800	11,100	9,400	7,500	5,000	2,900
2005	15,455	12,500	11,200	9,700	8,400	6,500	4,300	2,500

<sup>1/</sup>Data in this table is not derived from the Potato Objective Yield Survey; this data is derived from the monthly Potato Stocks/Price Survey also conducted by New England Agricultural Statistics.

SOURCE: *Potato Stocks*, 3:00 p.m. mid-month December – June, National Agricultural Statistics Service, USDA.

*Potatoes*, 3:00 p.m., September 21, 2006, National Agricultural Statistics Service, USDA.

**Table 9: <sup>1/</sup> MAINE POTATOES: Prices Received, 2000 – 2005 Crop Years**

Crop Year	Prices Received <sup>2/</sup> by Farmers for Potatoes, Monthly and Marketing Year Average											
	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	Market Year Average
	Dollars Per Cwt											
2000	5.80	5.45	5.50	5.55	5.60	5.50	5.90	6.20	6.80	7.30	7.00	6.15
2001	6.20	5.70	6.05	6.65	7.50	7.75	8.30	8.65	9.45	8.05	7.80	7.65
2002	5.75	5.45	5.60	6.65	6.95	7.10	7.10	7.45	8.10	8.15	7.40	7.05
2003	6.00	5.25	5.45	5.85	5.70	5.80	5.70	6.10	6.30	6.75	7.05	6.05
2004	5.90	5.15	5.65	6.15	6.35	5.90	6.55	6.60	6.95	7.30	7.40	6.50
2005	—	5.85	6.30	7.90	8.20	8.20	8.40	8.75	9.45	9.30	8.50	8.25

<sup>1/</sup>Data in this table is not derived from the Potato Objective Yield Survey; this data is derived from the monthly Potato Stocks/Price Survey also conducted by New England Agricultural Statistics.

<sup>2/</sup>Average price of potatoes sold for all uses, including table stock, processing, seed and livestock feed.

SOURCE: *Agricultural Prices*, 3:00 p.m., late-month September - June, National Agricultural Statistics Service, USDA.

*Potatoes*, 3:00 p.m., September 21, 2006, National Agricultural Statistics Service, USDA.

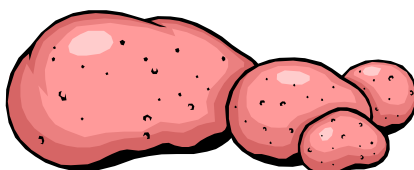


Table 10: FALL POTATOES: Acreage, Yield, and Production, 2005 – 2006

State	Area Planted		Area Harvested		Yield per Acre		Production	
	2005	2006	2005	2006	2005	2006	2005	2006
	1,000 Acres				Cwt		1,000 Cwt	
California	7.6	7.8	7.6	7.8	435	485	3,306	3,783
Colorado	58.2	59.9	58.0	59.7	395	380	22,910	22,686
Idaho	325.0	330.0	323.0	328.0	366	371	118,288	121,820
<b>Maine</b>	<b>57.5</b>	<b>58.5</b>	<b>56.2</b>	<b>58.0</b>	<b>275</b>	<b>315</b>	<b>15,455</b>	<b>18,270</b>
<b>Massachusetts</b>	<b>2.5</b>	<b>3.1</b>	<b>2.4</b>	<b>3.1</b>	<b>260</b>	<b>260</b>	<b>624</b>	<b>806</b>
Michigan	43.0	43.5	42.8	43.0	325	330	13,910	14,190
Minnesota	46.0	51.0	43.0	48.0	410	425	17,630	20,400
Montana	10.7	10.6	10.6	10.5	325	335	3,445	3,518
Nebraska	19.5	19.5	19.4	19.4	425	445	8,245	8,633
Nevada	5.5	6.6	5.5	6.6	425	445	2,338	2,937
New Mexico	4.7	5.0	4.2	5.0	420	420	1,764	2,100
New York	20.5	20.6	20.1	19.0	260	300	5,226	5,700
North Dakota	92.0	100.0	82.0	98.0	250	260	20,500	25,480
Ohio	3.7	3.3	3.6	3.1	240	320	864	992
Oregon	37.3	35.0	37.1	35.0	594	530	22,023	18,533
Pennsylvania	11.5	11.0	11.0	10.8	250	260	2,750	2,730
<b>Rhode Island</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>210</b>	<b>260</b>	<b>105</b>	<b>130</b>
Washington	154.0	156.0	154.0	155.0	620	580	95,480	89,900
Wisconsin	68.0	66.0	68.0	66.0	410	445	27,880	29,370
<b>United States Fall Crop</b>	<b>967.7</b>	<b>987.9</b>	<b>949.0</b>	<b>976.2</b>	<b>403</b>	<b>402</b>	<b>382,743</b>	<b>391,978</b>

<sup>1/</sup> Data in this table is not derived solely from the Potato Objective Yield Survey; data is derived from other end of year surveys conducted by New England Agricultural Statistics.

SOURCE: *Crop Production – Annual*, 8:30 a.m., January 12, 2007, National Agricultural Statistics Service, USDA..

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