



# New England Agricultural Statistics Service

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United States Department of Agriculture

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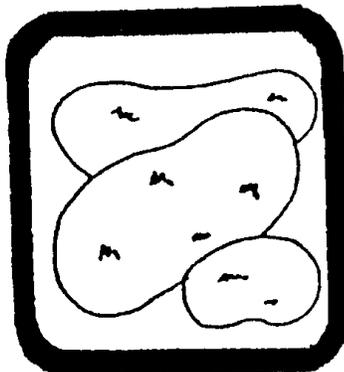
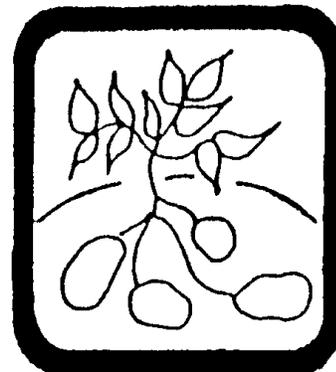
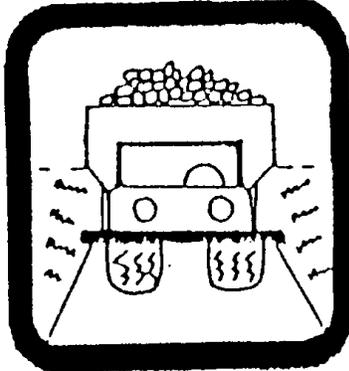
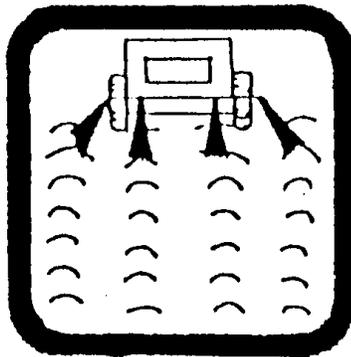
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## Maine Potatoes Acreage, Yield, Size and Grade, 2004 Crop

January 14, 2005

*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.

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*This is a monthly summary of New England agricultural statistics taken from nationwide reports issued by USDA's National Agricultural Statistics Service. All National reports and State newsletters are available on the Internet at: <http://www.usda.gov/nass/>. National Reports can be ordered by calling 1-800-999-6779. How can you get these reports electronically?*

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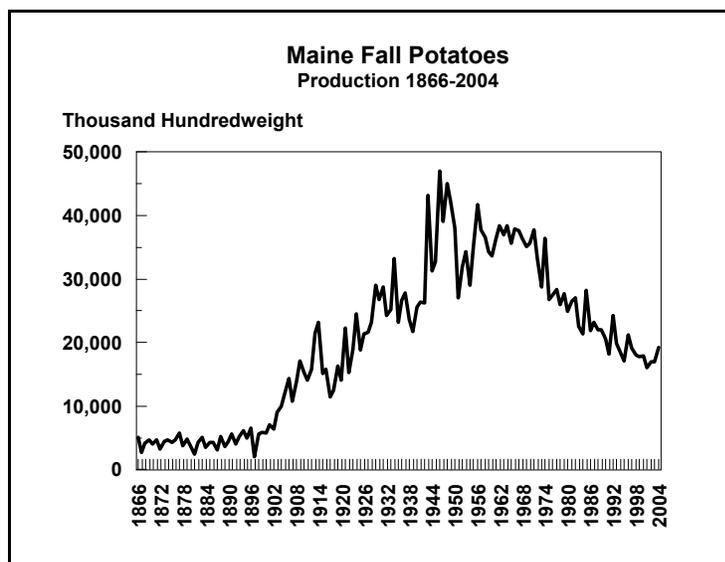
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# 2004 Maine Potatoes

## Acreage, Yield, Size and Grade, 2004 Crop

### FOREWORD:

We are pleased to present the Maine Acreage, Yield, Size and Grade Report for the 2004 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 2004.

The 2004 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 2004 Maine Potato Objective Yield survey was under the immediate supervision of Sherry Deane. Data collection was supervised by NASDA field supervisors Ola Hedstrom and Kay Reynolds. NASDA field enumerators included Keith Boulier, Basil Ferguson, Deborah Belanger, and Margaret Wolverton. 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 Judy Price and Lynne Arsenault for their assistance in preparing this publication.

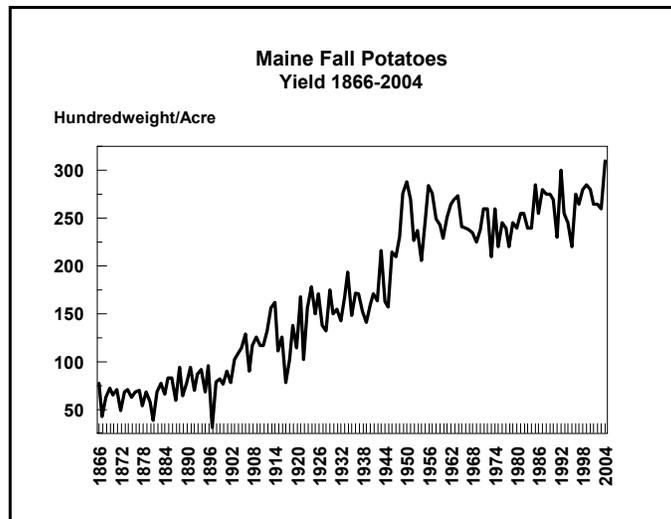
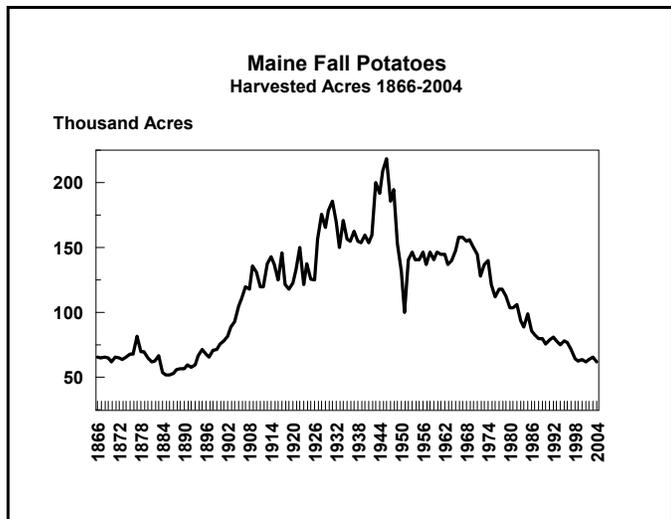


Table 1: MAINE POTATOES: Acres, Yield and Production, 2000 - 2004

Year	Area		Yield per Acre	Production
	Planted	Harvested		
	Acres		Cwt	1,000 Cwt
2000	64,000	64,000	280	17,920
2001	62,000	62,000	265	16,430
2002	64,000	64,000	265	16,960
2003	66,000	65,500	260	17,030
2004 <sup>1/</sup>	63,500	62,000	310	19,220

<sup>1/</sup> SOURCE: *Crop Production - Annual*, 8:30 a.m., January 12, 2005, National Agricultural Statistics Service, USDA.

Table 2: MAINE POTATOES: Percent of Acres Planted by Variety, 2000 - 2004

Variety and Type	2000	2001	2002	2003	2004
<b>By Variety:</b>	Percent				
Russet Burbank	33.7	29.1	36.4	33.2	36.7
Frito-Lay, All	11.1	12.6	10.9	11.9	11.5
Shepody	11.1	11.4	9.2	9.7	9.3
Ontario	9.2	7.3	9.7	8.3	5.5
Yukon Gold	2.2	2.2	1.4	2.0	3.3
Superior	5.7	8.9	7.2	6.1	3.0
Russet Norkotah	4.0	3.5	4.7	4.4	3.0
Atlantic	2.8	3.6	3.4	3.5	3.0
Katahdin	1.7	3.9	1.6	2.5	2.5
Norland	1.3	1.6	1.6	1.9	2.5
Snowden	2.2	1.5	1.4	2.2	2.3
Norwis	2.6	2.4	2.2	2.4	2.2
Goldrush	<sup>1/</sup>	1.7	1.1	1.6	1.9
Reba (NY 87) 13	<sup>1/</sup>	<sup>1/</sup>	<sup>1/</sup>	1.7	1.7
Monona	<sup>1/</sup>	<sup>1/</sup>	<sup>1/</sup>	<sup>1/</sup>	1.7
Chieftain	2.2	2.2	1.8	1.4	1.3
Centennial Russet	<sup>1/</sup>	<sup>1/</sup>	<sup>1/</sup>	<sup>1/</sup>	1.2
Mainstay	<sup>1/</sup>	<sup>1/</sup>	<sup>1/</sup>	<sup>1/</sup>	1.0
Kennebec	2.3	<sup>1/</sup>	<sup>1/</sup>	<sup>1/</sup>	<sup>1/</sup>
Other Varieties	7.9	8.1	7.4	7.2	6.4
<b>Total Varieties</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>By Type:</b>					
Reds	4.0	5.0	4.0	4.0	5.5
White (Long and Round)	57.0	60.0	53.0	56.0	51.0
Russet Varieties	39.0	35.0	43.0	40.0	43.5
<b>Total Varieties</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

<sup>1/</sup> Included with other varieties.

**Table 3: MAINE POTATOES: Number of Tubers<sup>1/</sup> per Hill and Hills per Acre, by Type, 2000 - 2004**

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	Hills per Acre	Tubers <sup>1/</sup> per Hill	Hills per Acre
2000	7.5	13,255	6.6	12,351	10.3	9,717	8.4	11,871
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

<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, 2000 - 2004**

Size	Round Whites				
	2000	2001	2002	2003	2004
	Percent				
1½" - under 1¾"	3	2	4	3	2
1¾" - under 2"	4	3	4	4	3
2" - under 2¼"	11	9	14	14	10
2¼" - under 2½"	17	13	22	20	16
2½" - under 3½"	58	62	50	55	63
3½" - under 4"	5	9	4	3	6
4" and over	2	2	2	1	2 <sup>2/</sup>

<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, 2000 - 2004**

Size	Long Whites (Shepody)					Russets				
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004
	Percent									
1½" - under 1¾"	2	3	8	6	1	6	4	6	10	3
1¾" - under 2"	5	8	8	5	2	5	6	6	8	4
2" and over:										
4 oz - under 6 oz <sup>2/</sup>	27	36	38	30	15	32	31	36	33	29
6 oz - under 8 oz	18	19	22	25	21	23	18	20	21	21
8 oz - under 10 oz	20	17	9	19	18	12	16	12	11	15
10 oz and over	28	17				22	25			
10 oz - under 12 oz <sup>3/</sup>			7	4	17			8	8	9
12 oz - under 14 oz <sup>3/</sup>			2	8	8			5	5	6
14 oz and over <sup>3/</sup>			6	3	18			7	4	13

<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, 2000 - 2004**

Grade	Round Whites					Long Whites					Russets				
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004
	Percent														
United States No. 1 <sup>2/</sup>	77	83	83	77	85	62	61	73	62	69	68	75	77	61	70
United States No. 2 <sup>3/</sup>	12	10	11	11	8	20	20	19	19	11	18	15	16	22	13
Culls <sup>4/</sup>	11	7	6	12	7	18	19	8	19	20	14	10	7	17	17

<sup>1/</sup> 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.SOURCE: *Potato Stocks*, 3:00 p.m. December 15, 2004, National Agricultural Statistics Service, USDA.**Table 6A: MAINE POTATOES: Harvest Loss<sup>1/</sup> by Size, Round Whites, 2000 - 2004**

Size	Round Whites				
	2000	2001	2002	2003	2004
	Cwt per Acre				
1 <sup>1</sup> / <sub>2</sub> " - under 1 <sup>7</sup> / <sub>8</sub> "	4	4	4	4	3
1 <sup>7</sup> / <sub>8</sub> " - under 2"	2	2	3	2	2
2" - under 2 <sup>1</sup> / <sub>4</sub> "	3	1	3	2	3
2 <sup>1</sup> / <sub>4</sub> " - under 2 <sup>1</sup> / <sub>2</sub> "	1	2	2	3	3
2 <sup>1</sup> / <sub>2</sub> " - under 3 <sup>1</sup> / <sub>2</sub> "	2	3	4	4	3
3 <sup>1</sup> / <sub>2</sub> " - under 4"	0	0	0	0	1
4" and over	0	0	0	0	0
<b>Total<sup>1/</sup></b>	<b>12</b>	<b>12</b>	<b>16</b>	<b>15</b>	<b>15</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, 2000 - 2004**

Size	Long Whites					Russets				
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004
	Cwt per Acre									
1 <sup>1</sup> / <sub>2</sub> " - under 1 <sup>7</sup> / <sub>8</sub> "	6					4	9	5	5	8
1 <sup>7</sup> / <sub>8</sub> " - under 2"	3					3	2	3	2	4
2" and over:										
4 oz - under 6 oz <sup>2/</sup>	7					5	5	6	7	9
6 oz - under 8 oz	3					1	3	1	1	4
8 oz - under 10 oz	2					<sup>4/</sup>	1	<sup>4/</sup>	3	1
10 oz and over	3					1	0	0	4	4
<b>Total<sup>3/</sup></b>	<b>24</b>	<b>14</b>	<b>16</b>	<b>15</b>	<b>37</b>	<b>14</b>	<b>20</b>	<b>15</b>	<b>22</b>	<b>30</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 for 2001, 2002, and 2003.<sup>4/</sup> Less than 0.5 cwt per acre.

**Table 7: MAINE POTATOES: Planting Progress, 2000 - 2004**

Week Ending	Percent of Acres Planted Weekly					Accumulated Percent of Acres				
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004
	Percent									
before May 2	–	1	--	--	--	–	1	--	--	--
May 9	10	10	22	4	4	10	11	22	4	4
May 16	16	36	23	6	40	26	47	45	10	44
May 23	35	35	22	40	37	61	82	67	50	81
May 30	20	12	24	36	14	81	94	91	86	95
June 6	16	2	8	12	3	97	96	99	98	98
after June 6	3	4	1	2	2	100	100	100	100	100

**Table 8:<sup>1/</sup> MAINE POTATOES: Potato Production and Stocks Held by Growers, Local Dealers and Processors by Month, 1999 - 2003 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	37772
		1,000 Cwt						
1999	17,813	14,500	13,000	11,300	9,400	7,200	4,400	2,300
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

<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 the New England Agricultural Statistics Service.

SOURCE: **Potato Stocks**, 3:00 p.m., mid-month December - June, National Agricultural Statistics Service, USDA.  
**Potatoes**, 3:00 p.m., September 23, 2004, National Agricultural Statistics Service, USDA.

**Table 9:<sup>1/</sup> MAINE POTATOES: Prices Received, 1999 - 2003 Crop Years**

Crop Year	Prices Received <sup>2/</sup> by Farmers for All Potatoes, Monthly and Marketing Year Average											
	August	September	October	November	December	January	February	March	April	May	June	Market Year Average
	Dollars Per Cwt											
1999	5.80	5.30	5.45	6.35	6.45	6.30	6.35	6.40	6.80	6.60	6.75	6.35
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	6.15	5.25	5.45	5.90	5.75	5.85	5.70	6.10	6.30	6.70	6.90	6.05

<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 the New England Agricultural Statistics Service.

<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.

**Table 10: <sup>1/</sup> FALL POTATOES: Acreage, Yield and Production, 2003 - 2004**

State	Area Planted		Area Harvested		Yield per Acre		Production	
	2003	2004	2003	2004	2003	2004	2003	2004
	1,000 Acres				Cwt		1,000 Cwt	
California	8.3	7.6	8.3	7.6	425	510	3,528	3,876
Colorado	66.3	65.0	65.7	64.3	360	360	23,652	23,148
Idaho	360.0	355.0	358.0	353.0	344	374	123,180	131,970
<b>Maine</b>	<b>66.0</b>	<b>63.5</b>	<b>65.5</b>	<b>62.0</b>	<b>260</b>	<b>310</b>	<b>17,030</b>	<b>19,220</b>
<b>Massachusetts</b>	<b>3.0</b>	<b>2.6</b>	<b>2.7</b>	<b>2.5</b>	<b>265</b>	<b>320</b>	<b>716</b>	<b>800</b>
Michigan	46.0	43.0	45.5	42.0	330	325	15,015	13,650
Minnesota	60.0	47.0	58.0	44.0	385	430	22,330	18,920
Montana	10.7	10.7	10.6	10.6	315	335	3,339	3,551
Nebraska	23.5	22.0	23.2	21.6	420	430	9,744	9,288
New York	22.2	20.0	21.7	19.2	300	270	6,510	5,184
North Dakota	117.0	105.0	112.0	101.0	245	265	27,440	26,765
Ohio	4.5	3.7	4.3	3.6	255	300	1,097	1,080
Oregon	42.8	37.0	42.6	37.0	493	534	20,991	19,775
Pennsylvania	13.0	12.0	12.5	11.0	270	240	3,375	2,640
<b>Rhode Island</b>	<b>0.6</b>	<b>0.5</b>	<b>0.6</b>	<b>0.5</b>	<b>285</b>	<b>350</b>	<b>171</b>	<b>175</b>
Washington	163.0	160.0	162.0	159.0	575	590	93,150	93,810
Wisconsin	81.0	71.0	80.0	70.0	410	435	32,800	30,450
All Other Fall States <sup>2/</sup>	18.1	14.1	17.7	13.9	368	412	6,520	5,721
<b>United States Fall Crop</b>	<b>1,106.0</b>	<b>1,039.7</b>	<b>1,090.9</b>	<b>1,022.8</b>	<b>376</b>	<b>401</b>	<b>410,588</b>	<b>410,023</b>

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

<sup>2/</sup> 2003 includes IN, NV, NM, SD, UT. 2004 includes IN, NV, NM; estimates discontinued for SD and UT in 2004.

SOURCE: **Crop Production - Annual**, 8:30 a.m., January 12, 2005, National Agricultural Statistics Service, USDA.

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