



New England Agricultural Statistics Service

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United States Department of Agriculture

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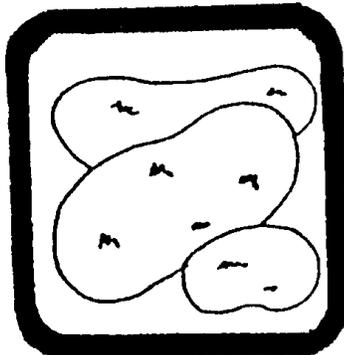
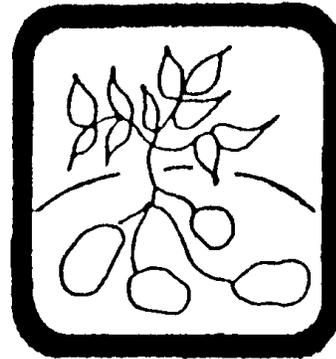
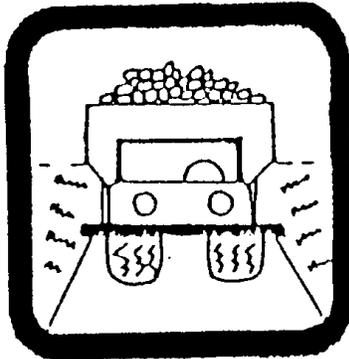
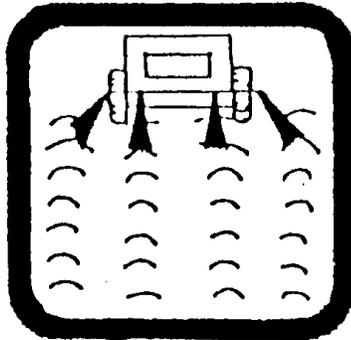
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Maine Potatoes Acreage, Yield, Size & Grade, 2001 Crop

January 14, 2002

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 early January.

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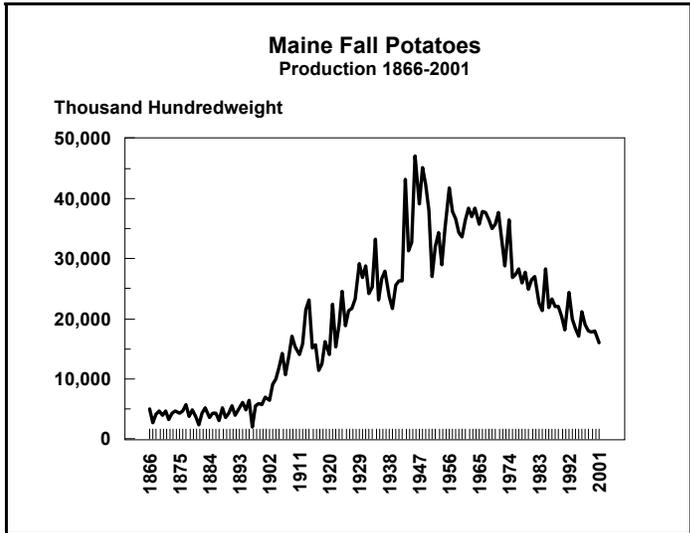
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2001 Maine Potatoes

Acreage, Yield, Size and Grade, 2001 Crop

FOREWORD:

We are pleased to present the Maine Acreage, Yield, Size and Grade Report for the 2001 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 84 percent of the U.S. fall potato crop in 2001.

The 2001 Potato Objective Yield Survey in Maine consisted of 170 "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 3 hills were harvested. Thus, tubers were harvested from 6 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 3 foot by 6 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 2001 Maine Potato Objective Yield survey was under the immediate supervision of Dianne Johnson and Sherry Deane. Robin Helrich was responsible for setting the estimates of acreage, yield, production, prices, and stocks. We would also like to recognize Judy Price and Wayne Colpitt for their assistance in preparing this publication.

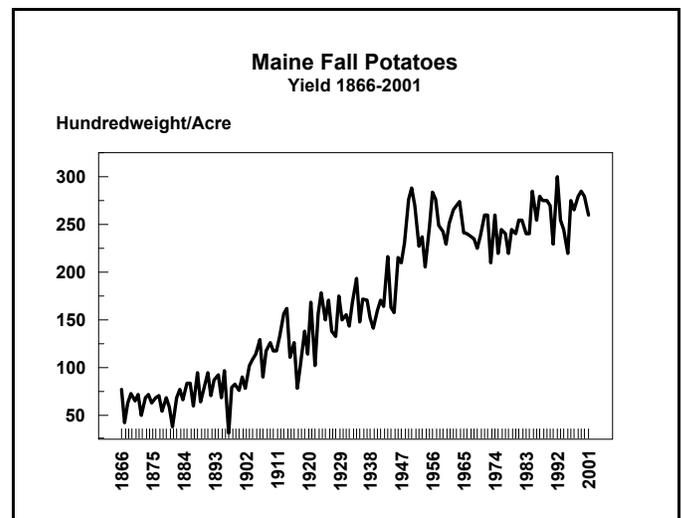
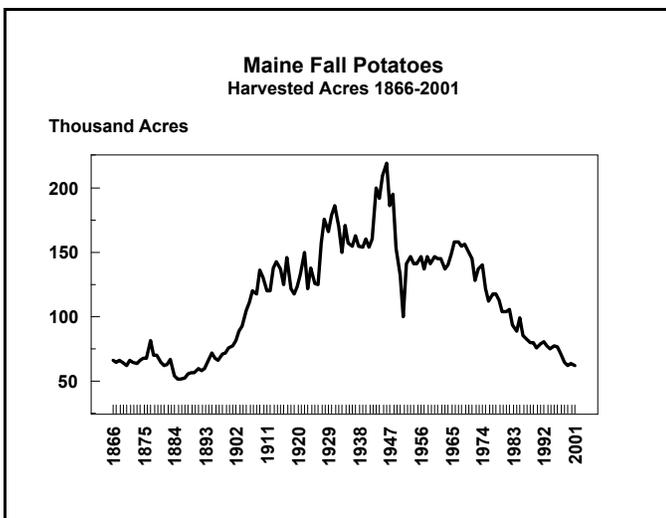


Table 1: MAINE POTATOES: Acres, Yield and Production, 1997 - 2001

YEAR	Acres		Yield per Acre	Production
	Planted	Harvested		
	Acres		Cwt	1,000 Cwt
1997	72,000	72,000	265	19,080
1998	65,500	64,500	280	18,060
1999	65,000	62,500	285	17,813
2000	64,000	64,000	280	17,920
2001 ^{1/}	62,000	62,000	260	16,120

^{1/} SOURCE: *Crop Production - Annual*, 8:30 am, January 11, 2002, National Agricultural Statistics Service, USDA.
All previous years are final.

Table 2: MAINE POTATOES: Percent of Acres Planted by Variety, 1997 - 2001

VARIETY & TYPE	1997	1998	1999	2000	2001
BY VARIETY:					
Atlantic	6	6	5	3	4
Frito-Lay, All	9	10	10	11	13
Goldrush	2	2	1/	1/	2
Katahdin	3	3	3	2	4
Kennebec	1/	1/	1/	2	1/
Mainestay	2	1/	1/	1/	1/
Norwis	4	3	2	3	2
Ontario	8	12	17	9	7
Russet Burbank	20	23	26	34	29
Russet Norkotah	4	3	1	4	3
Snowden	4	5	3	2	2
Shepody	12	14	15	11	11
Superior	14	9	8	6	9
Yukon Gold	--	--	2	2	2
All Red Varieties	4	4	4	4	5
Other Varieties	8	6	4	7	7
TOTAL VARIETIES	100	100	100	100	100
BY TYPE:					
White & Red Varieties	73	72	72	61	65
Russet Varieties	27	28	28	39	35

^{1/} Included with other varieties

Table 3A: MAINE POTATOES: Number of Tubers ^{1/} per Hill and Hills per Acre, by Type, 1997 - 2001

YEAR	Round Whites		Long Whites		Russets		All Varieties ^{2/}	
	Tubers ^{1/} per Hill	Hills per Acre						
1997	6.3	14,122	6.0	12,521	10.6	9,289	7.7	12,449
1998	7.6	13,317	6.5	12,218	9.8	10,189	8.1	12,323
1999	6.8	13,425	5.8	12,767	9.4	9,112	7.4	12,168
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

^{1/} Tubers 1½ inches and over

^{2/} Includes Red varieties

Table 3B: MAINE POTATOES: Number of Tubers ^{1/} per Hill and Hills per Acre, by Selected Varieties, 1997 - 2001

YEAR	Superior		Shepody		Russet Burbank	
	Tubers ^{1/} per Hill	Hills per Acre	Tubers ^{1/} per Hill	Hills per Acre	Tubers ^{1/} per Hill	Hills per Acre
1997	6.2	14,335	6.0	12,521	11.3	8,846
1998	7.2	14,219	6.5	12,218	10.5	9,539
1999	6.2	13,400	5.8	12,767	9.5	9,081
2000	6.9	12,865	6.6	12,351	10.4	9,537
2001	5.6	13,230	6.4	12,722	9.8	8,960

^{1/} Tubers 1½ inches and over

Table 4A: MAINE POTATOES: Percent of Net Yield ^{1/} by Weight within Size Groups, Round Whites, 1997 - 2001

SIZE	Round Whites (including Superior)					Superior only				
	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001
	Percent									
1 1/2" - under 1 7/8"	2	3	2	3	2	1	1	2/	2	1
1 7/8" - under 2"	3	4	3	4	3	3	3	2	2	1
2" - under 2 1/4"	10	11	10	11	9	14	8	10	9	8
2 1/4" - under 2 1/2"	16	17	16	17	13	24	17	14	16	12
2 1/2" - under 3 1/2"	63	56	62	58	62	56	63	66	64	66
3 1/2" - under 4"	5	7	6	5	9	2	7	8	6	9
4" and over	2/	2	1	2	2	2/	1	2/	1	3

^{1/} Adjusted for harvest loss

^{2/} Less than 1 percent

Table 4B: MAINE POTATOES: Percent of Net Yield ^{1/} by Weight within Size Groups, Long Whites, 1997 - 2001

SIZE	Long Whites (Shepody)					
	1997	1998	1999	2000	2001	
	Percent					
1 1/2" - under 1 7/8"		1	2	3	2	3
1 7/8" - under 2"		1	5	3	5	8
2" and over:						
4 oz - under 6 oz ^{2/}		30	23	24	27	36
6 oz - under 8 oz		21	20	20	18	19
8 oz - under 10 oz		18	18	15	20	17
10 oz and over		29	32	35	28	17

^{1/} Adjusted for harvest loss

^{2/} Includes potatoes 2 inches or greater weighing less than 4 ounces.

Table 4C: MAINE POTATOES: Percent of Net Yield ^{1/} by Weight within Size Groups, Russets, 1997 - 2001

SIZE	Russets (including Russet Burbank)					Russet Burbank only				
	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001
	Percent									
1 1/2" - under 1 7/8"	5	6	3	6	4	5	5	3	5	3
1 7/8" - under 2"	6	5	4	5	6	6	5	4	5	6
2" and over:										
4 oz - under 6 oz ^{2/}	42	31	24	32	31	43	29	24	33	30
6 oz - under 8 oz	22	19	19	23	18	21	19	19	23	18
8 oz - under 10 oz	13	14	16	12	16	13	13	16	11	17
10 oz and over	12	25	34	22	25	12	29	34	23	26

^{1/} Adjusted for harvest loss

^{2/} Includes potatoes 2 inches or greater weighing less than 4 ounces.

Table 5: MAINE POTATOES: Percent of Net Yield by Weight within Grade ^{1/}, by Type, 1997 - 2001

GRADE	Round Whites					Long Whites					Russets				
	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001
	Percent														
U.S. No. 1	82	79	79	77	83	87	73	64	62	55	70	72	67	68	75
U.S. No. 2	10	13	11	12	10	8	18	18	20	21	19	17	16	18	15
Culls	8	8	10	11	7	5	9	18	18	24	11	11	17	14	10

^{1/} Reflects condition before harvest or handling damage

Table 6A: MAINE POTATOES: Harvest Loss by Size and Grade, Round Whites, 1997 - 2001

SIZE	U.S. No. 1					U.S. No. 2 & Cull					Total ^{1/}				
	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001
	Cwt Per Acre														
1 ¹ / ₂ " - under 1 ⁷ / ₈ "	0	0	0	0	0	4	5	3	4	4	4	5	3	4	4
1 ⁷ / ₈ " - under 2"	0	0	0	0	0	1	2	1	2	2	1	2	1	2	2
2" - under 2 ¹ / ₄ "	1	2 ^{2/}	1	1	1	1	1	2	2	2 ^{2/}	2	1	3	3	1
2 ¹ / ₄ " - under 2 ¹ / ₂ "	1	0	1	1	1	0	1	1	2 ^{2/}	2 ^{2/}	1	1	2	1	2
2 ¹ / ₂ " - under 3 ¹ / ₂ "	0	1	1	2	3	1	2	3	2 ^{2/}	1	1	3	4	2	3
3 ¹ / ₂ " - under 4"	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
4" and over	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total ^{1/}	2	1	3	4	5	7	11	11	8	7	9	12	14	12	12

^{1/} Totals may not agree due to rounding^{2/} Less than 0.5 cwt per acre**Table 6B: MAINE POTATOES: Harvest Loss by Size and Grade, Long Whites, 1997 - 2001^{1/}**

SIZE	U.S. No. 1					U.S. No. 2 & Cull					Total ^{2/}				
	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001
	Cwt Per Acre														
1 ¹ / ₂ " - under 1 ⁷ / ₈ "	0	0	0	0		6	5	4	6		6	5	4	6	
1 ⁷ / ₈ " - under 2"	0	0	0	0		6	1	2	3		6	1	2	3	
2" and over:															
4 oz - under 6 oz ^{3/}	7	1	3	5		0	4	3	2		7	5	6	7	
6 oz - under 8 oz	8	1	1	2		0	0	0	1		8	1	1	3	
8 oz - under 10 oz	0	0	0	1		3	0	1	1		3	0	1	2	
10 oz and over	0	0	0	3		0	0	2	0		0	0	2	3	
Total ^{2/}	15	2	4	11	1^{1/}	10	10	12	13	1^{1/}	30	12	16	24	14

^{1/} Long white totals by size and grade unavailable for 2001^{2/} Totals may not agree due to rounding^{3/} Includes potatoes 2 inches or greater weighing less than 4 ounces**Table 6C: MAINE POTATOES: Harvest Loss by Size and Grade, Russets, 1997 - 2001**

SIZE	U.S. No. 1					U.S. No. 2 & Cull					Total ^{1/}				
	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001
	Cwt Per Acre														
1 ¹ / ₂ " - under 1 ⁷ / ₈ "	0	0	0	0	0	5	5	4	4	9	5	5	4	4	9
1 ⁷ / ₈ " - under 2"	0	0	0	0	0	2	3	2	3	2	2	3	2	3	2
2" and over:															
4 oz - under 6 oz ^{3/}	4	2	2	3	3	3	3	2	2	2	7	5	4	5	5
6 oz - under 8 oz	1	0	2 ^{2/}	1	1	2 ^{2/}	2	1	0	2	1	2	1	1	3
8 oz - under 10 oz	1	0	1	0	1	0	0	2 ^{2/}	2 ^{2/}	0	1	0	1	2 ^{2/}	1
10 oz and over	0	1	0	0	0	1	0	4	1	0	1	1	4	1	0
Total ^{1/}	6	3	3	4	5	11	13	13	10	15	17	16	16	14	20

^{1/} Totals may not agree due to rounding^{2/} Less than 0.5 cwt per acre^{3/} Includes potatoes 2 inches or greater weighing less than 4 ounces

Table 7: MAINE POTATOES: Planting Progress, 1997 - 2001

Week Ending	Percent of Acres Planted Weekly					Accumulated Percent of Acres				
	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001
	Percent									
before May 2	2	3	11	–	1	2	3	11	–	1
May 9	2	13	32	10	10	4	16	43	10	11
May 16	3	41	35	16	36	7	57	78	26	47
May 23	5	28	17	35	35	12	85	95	61	82
May 30	47	12	3	20	12	59	97	98	81	94
June 6	32	2	1	16	2	91	99	99	97	96
June 13	6	1	1	3	2	97	100	100	100	98
after June 13	3	0	0	0	2	100	100	100	100	100

Table 8: ^{1/} MAINE POTATOES: Potato Production and Stocks Held by Growers, Local Dealers and Processors, by Month, 1996 - 2000 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 ^{2/}	
		1,000 Cwt							
1996	21,175	16,900	15,300	13,100	11,200	8,400	5,300		
1997	19,170	15,600	14,100	12,100	10,300	7,400	4,500		
1998	18,060	14,100	12,500	10,500	8,450	6,000	3,800	1,900	
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	

^{1/} 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.

^{2/} June 1 stocks on hand unavailable prior to June 1, 1999.

SOURCE: **Potato Stocks**, 3:00 pm, mid-month December - June, National Agricultural Statistics Service, USDA.
Potatoes, 3:00 pm, September 20, 2001, National Agricultural Statistics Service, USDA.

Table 9: ^{1/} MAINE POTATOES: Prices Received, 1996 - 2000 Crop Years

CROP YEAR	Prices Received ^{2/} by Farmers for All Potatoes, Monthly and Marketing Year Average										
	August	September	October	November	December	January	February	March	April	May	Market Year Average
	Dollars Per Cwt										
1996	5.20	4.70	4.90	4.35	4.35	4.65	4.50	4.75	5.05	4.55	4.60
1997	8.10	5.65	5.70	6.10	6.30	6.10	6.35	6.55	6.95	6.75	6.40
1998	6.25	5.40	5.70	5.85	5.90	6.15	6.45	6.90	7.45	7.05	6.45
1999	5.80	5.30	5.45	6.35	6.45	6.30	6.35	6.40	6.80	6.60	6.35
2000	5.80	5.45	5.50	5.55	5.60	5.50	5.90	6.20	6.80	7.30	6.15

^{1/} 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.

^{2/} Average price of potatoes sold for all uses, including table stock, processing, seed and livestock feed.

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

Table 10:^{1/} FALL POTATOES: Acreage, Yield and Production, 2000 - 2001

STATE	Area Planted		Area Harvested		Yield per Acre		Production	
	2000	2001	2000	2001	2000	2001	2000	2001
	1,000 Acres				Cwt		1,000 Cwt	
California	8.7	2.5	8.7	2.5	430	445	3,741	1,113
Colorado	75.8	68.1	75.6	67.8	370	215	27,972	21,357
Idaho	415.0	370.0	413.0	368.0	369	348	152,320	127,980
Maine	64.0	62.0	64.0	62.0	280	260	17,920	16,120
Massachusetts	2.8	2.8	2.5	2.8	255	265	638	742
Michigan	49.0	47.5	47.5	46.0	315	305	14,963	14,030
Minnesota	66.0	59.0	59.0	55.0	360	335	21,240	18,425
Montana	11.5	9.6	11.3	9.5	310	320	3,503	3,040
Nebraska	26.0	22.5	24.7	22.4	410	380	10,127	8,512
New York	22.0	23.5	21.3	23.3	280	255	5,964	5,942
North Dakota	124.0	118.0	110.0	110.0	245	240	26,950	26,400
Ohio	4.4	4.2	4.2	4.1	270	240	1,134	984
Oregon	57.0	45.0	56.5	44.5	543	466	30,683	20,730
Pennsylvania	13.5	14.0	13.0	13.5	270	235	3,510	3,173
Rhode Island	0.5	0.5	0.5	0.5	275	270	138	135
Washington	175.0	160.0	175.0	160.0	600	590	105,000	94,400
Wisconsin	86.0	84.0	84.5	83.0	400	385	33,800	31,955
All Other Fall States	21.8	17.9	20.9	17.6	378	323	7,901	5,689
U.S. Fall Crop	1,223.0	1,111.1	1,192.2	1,092.5	392	367	467,504	400,727

^{1/} Data in this table is not derived exclusively from the Potato Objective Yield Survey; this is also the result of other surveys conducted by the New England Agricultural Statistics Service.

SOURCE: **Crop Production - Annual**, 8:30 am , January 11, 2002, National Agricultural Statistics Service, USDA.

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