I' ''ed States Department of Agriculture
.onal Agricultural Statistics Service

Idaho Potatoes

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IDAHO RUSSET POTATO SIZE AND GRADE SUMMARY – 2007 CROP

The statistics in this publication were obtained from the 2007 Potato Objective Yield Survey. The Idaho Agricultural Statistics Service would like to thank all growers who allowed the enumerators to dig samples in their fields. Without the voluntary cooperation of the farmers themselves, obtaining valid and timely agricultural statistics would be much more difficult. Because the samples of potatoes were dug by hand, the size and grade statistics in this document do not reflect harvesting or handling damage.

The survey results showed for the 2007 crop, 32.5 percent of the potatoes were at least ten ounces, compared to 29.9 percent that reached that size in 2006. Of the Russet potatoes in the 2007 sample, 71.9 percent met the 2.0 inch or 4 oz. minimum size and grade requirements for U.S. No. 1 potatoes, down from 77.0 percent last year. Processing grade, with a 1.5 inch minimum, accounted for 27.1 percent of the 2007 crop.

PROCEDURE

The 2007 Potato Objective Yield Survey consisted of 279 samples located throughout Idaho in fields selected in an unbiased and random manner. The selection of sample fields was based on all known potato acreage planted in 2007, with each acre having an equal chance of being chosen. As a result, growers with large acreages were more likely to be selected to participate in this survey. Several sample fields with varieties other than Russet were selected, but only the reports with Russet potatoes were used to compile the data in Tables 1 and 2. For each sample field, two plots were systematically located using computer generated random numbers. Each plot consisted of a twenty-foot section of a row. Digging of all samples occurred immediately preceding harvest or when all vines had died and growth of the tubers was no longer possible. Three hills of potatoes from each twenty-foot row section were carefully dug, counted, weighed, and then graded according to U.S.D.A. standards. Potatoes less than 1.5 inches in diameter were excluded from this procedure. To measure the harvest loss, post-harvest gleanings were taken for every fourth sample. The gleaning area consisted of two 3-by-6-foot plots, located five paces and five row space equivalents beyond the plots where the potato hills were dug. All potatoes and potato pieces, except whole potatoes less than 1.5 inches in diameter, were collected, weighed, and graded. Geographic distribution of the 2007 sample fields is shown in the following table.

AREA	COUNTIES	NUMBER OF SAMPLE PLOTS
Southwest	Ada, Adams, Boise, Canyon, Elmore, Gem, Owyhee, Payette, Valley & Washington	32
South Central	Blaine, Camas, Cassia, Gooding, Jerome, Lincoln, Minidoka & Twin Falls	65
Eastern	Bannock, Bear Lake, Bingham, Bonneville, Franklin, Jefferson, Madison, Oneida & Power	142
Eastern Seed Counties	Butte, Caribou, Clark, Custer, Fremont, Lemhi & Teton	40

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TABLE 1 – IDAHO RUSSET POTATOES: SIZE AND GRADE – 2007 CROP [1/]

AREA AND GRADE	1½" - 1 5/8"	1 5/8" - 1 7/8"	1 7/8" - 2"	2" or 4-6 Oz	6-7 Oz	7-8 Oz	8-9 oz	9-10 oz	10-11 Oz	11-12 oz	12-13 oz	13-14 oz	14 oz and over	Total
	Percentages (%)													
SOUTH CENTRAL COUNTIES														
U.S. No. 1 (2" min) [2/]	-	-	-	17.4	8.4	8.2	5.5	5.4	5.2	5.3	3.1	2.1	10.5	71.1
U.S. No. 2 or Processing Usable (1 ½ min) [3/]	1.5	5.5	3.8	2.7	0.9	1.7	1.1	0.7	1.0	1.3	1.4	0.6	5.3	27.5
Cull [4/]	0.1	0.1	-	0.3	0.2	0.2	0.1	-	0.1	0.1	-	-	0.2	1.4
TOTAL	1.6	5.6	3.8	20.4	9.5	10.1	6.7	6.1	6.3	6.7	4.5	2.7	16.0	100.0
EASTERN COUNTIES														
U.S. No. 1 (2" min) [2/]	-	-	-	22.1	9.7	8.3	6.4	5.1	5.0	3.6	2.7	1.8	8.1	72.8
U.S. No. 2 or Processing Usable (1 ½ min) [3/]	1.9	6.8	3.9	1.9	0.8	0.8	0.9	0.7	0.9	0.7	1.0	0.8	5.2	26.3
Cull [4/]	-	-	-	0.2	0.1	0.1	0.1	0.1	-	-	0.1	-	0.2	0.9
TOTAL	1.9	6.8	3.9	24.2	10.6	9.2	7.4	5.9	5.9	4.3	3.8	2.6	13.5	100.0
EASTERN SEED COUNTIES														
U.S. No. 1 (2" min) [2/]	-	-	-	20.9	7.8	5.8	5.9	6.0	4.4	5.2	3.9	3.2	7.9	71.0
U.S. No. 2 or Processing Usable (1 ½ min) [3/]	2.2	7.6	3.9	1.5	1.1	1.1	1.5	0.9	0.8	0.7	0.6	0.6	5.9	28.4
Cull [4/]	-	0.1	-	0.2	-	0.1	0.1	-	0.1	-	-	-	-	0.6
TOTAL	2.2	7.7	3.9	22.6	8.9	7.0	7.5	6.9	5.3	5.9	4.5	3.8	13.8	100.0
TOTAL OTHER COUNTIES														
U.S. No. 1 (2" min) [2/]	-	-	-	20.5	9.0	7.8	6.1	5.3	5.0	4.4	3.0	2.1	8.8	72.0
U.S. No. 2 or Processing Usable (1 ½ min) [3/]	1.8	6.5	3.9	2.1	0.9	1.2	1.0	0.7	0.9	0.9	1.0	0.7	5.3	26.9
Cull [4/]	0.1	0.1	-	0.2	0.1	0.1	0.1	0.1	-	-	0.1	-	0.2	1.1
TOTAL	1.9	6.6	3.9	22.8	10.0	9.1	7.2	6.1	5.9	5.3	4.1	2.8	14.3	100.0
10 SOUTHWEST COUNTIES														
U.S. No. 1 (2" min) [2/]	-	-	-	19.8	8.1	6.8	5.0	5.7	4.7	4.7	3.6	2.7	9.3	70.4
U.S. No. 2 or Processing Usable (1 ½ min) [3/]	1.6	5.5	3.2	3.5	1.2	0.8	1.6	1.4	1.7	1.0	0.5	1.1	6.1	29.2
Cull [4/]	0.1	-	-	-	-	0.1	-	0.1	-	-	-	-	0.1	0.4
TOTAL	1.7	5.5	3.2	23.3	9.3	7.7	6.6	7.2	6.4	5.7	4.1	3.8	15.5	100.0
STATE														
U.S. No. 1 (2" min) [2/]	-	-	-	20.4	9.0	7.8	6.0	5.3	5.0	4.4	3.0	2.2	8.8	71.9
U.S. No. 2 or Processing Usable (1 ½ min) [3/]	1.8	6.5	3.8	2.2	0.9	1.2	1.1	0.8	0.9	0.9	1.0	0.7	5.3	27.1
Cull [4/]	0.1	-	-	0.2	0.1	0.1	0.1	0.1	-	-	0.1	-	0.2	1.0
TOTAL	1.9	6.5	3.8	22.8	10.0	9.1	7.2	6.2	5.9	5.3	4.1	2.9	14.3	100.0

1/ Gross yield basis.
2/ Potatoes which meet the requirements for U.S. #1, as stated in U.S. Standards for Grades of Potatoes, USDA, Agricultural Marketing Service.
3/ Potatoes which meet the requirements for U.S. #2, as stated in U.S. Standards for Grades of Potatoes, USDA, Agricultural Marketing Service.
4/ Potatoes not meeting the requirements for U.S. #1 or U.S. #2, as stated in U.S. Standards for Grades of Potatoes, USDA, Agricultural Marketing Service.

TABLE 2 – IDAHO RUSSET POTATOES: SIZE AND GRADE – 2006 CROP [1/]

AREA AND GRADE	1½" - 1 5/8"	1 5/8" - 1 7/8"	1 7/8" - 2"	2" or 4-6 oz	6-7 Oz	7-8 Oz	8-9 oz	9-10 oz	10-11 Oz	11-12 oz	12-13 oz	13-14 oz	14 oz and over	Total
	Percentages (%)													
SOUTH CENTRAL COUNTIES														
U.S. No. 1 (2" min) [2/]	-	-	-	22.2	8.7	7.9	6.4	6.0	4.9	3.8	3.0	2.5	12.1	77.5
U.S. No. 2 or Processing Usable (1 ½ min) [3/]	1.5	5.9	3.1	1.3	0.6	0.9	0.8	0.7	0.3	0.8	0.7	0.4	4.6	21.6
Cull [4/]	-	0.1	0.1	0.1	0.1	0.1	-	0.1	-	0.1	-	-	0.2	0.9
TOTAL	1.5	6.0	3.2	23.6	9.4	8.9	7.2	6.8	5.2	4.7	3.7	2.9	16.9	100.0
EASTERN COUNTIES														
U.S. No. 1 (2" min) [2/]	-	-	-	25.6	9.1	8.7	6.4	5.7	4.8	4.4	3.0	2.8	7.5	78.0
U.S. No. 2 or Processing Usable (1 ½ min) [3/]	1.6	6.8	3.5	1.3	0.4	0.5	0.5	0.5	0.4	0.4	0.3	0.5	4.0	20.7
Cull [4/]	-	0.1	0.1	0.2	0.1	0.1	-	-	0.1	0.1	0.1	-	0.4	1.3
TOTAL	1.6	6.9	3.6	27.1	9.6	9.3	6.9	6.2	5.3	4.9	3.4	3.3	11.9	100.0
EASTERN SEED COUNTIES														
U.S. No. 1 (2" min) [2/]	-	-	-	31.1	9.6	7.1	4.7	4.5	3.1	1.8	2.2	1.7	3.6	69.4
U.S. No. 2 or Processing Usable (1 ½ min) [3/]	2.5	11.1	6.8	1.4	1.0	0.4	0.7	0.6	0.8	-	0.7	0.2	3.5	29.7
Cull [4/]	-	0.1	0.2	0.3	-	0.1	-	0.2	-	-	-	-	-	0.9
TOTAL	2.5	11.2	7.0	32.8	10.6	7.6	5.4	5.3	3.9	1.8	2.9	1.9	7.1	100.0
TOTAL OTHER COUNTIES														
U.S. No. 1 (2" min) [2/]	-	-	-	24.8	9.0	8.3	6.3	5.7	4.7	4.1	3.0	2.6	8.8	77.3
U.S. No. 2 or Processing Usable (1 ½ min) [3/]	1.6	6.8	3.6	1.2	0.5	0.6	0.7	0.6	0.4	0.5	0.4	0.4	4.2	21.5
Cull [4/]	-	0.1	0.1	0.2	0.1	0.1	-	0.1	0.1	0.1	-	-	0.3	1.2
TOTAL	1.6	6.9	3.7	26.2	9.6	9.0	7.0	6.4	5.2	4.7	3.4	3.0	13.3	100.0
10 SOUTHWEST COUNTIES														
U.S. No. 1 (2" min) [2/]	-	-	-	19.5	7.8	7.9	7.7	5.4	5.8	3.9	3.5	2.7	8.0	72.2
U.S. No. 2 or Processing Usable (1 ½ min) [3/]	1.3	5.0	2.2	2.0	1.0	1.4	1.7	1.4	1.5	0.9	1.2	1.7	5.2	26.5
Cull [4/]	-	0.1	0.1	0.2	0.1	-	0.1	0.1	0.1	0.1	-	-	0.4	1.3
TOTAL	1.3	5.1	2.3	21.7	8.9	9.3	9.5	6.9	7.4	4.9	4.7	4.4	13.6	100.0
STATE														
U.S. No. 1 (2" min) [2/]	-	-	-	24.6	9.0	8.3	6.3	5.7	4.7	4.1	2.9	2.6	8.8	77.0
U.S. No. 2 or Processing Usable (1 ½ min) [3/]	1.6	6.7	3.5	1.3	0.5	0.6	0.7	0.7	0.5	0.5	0.5	0.5	4.2	21.8
Cull [4/]	-	0.1	0.1	0.2	0.1	0.1	-	-	0.1	0.1	0.1	-	0.3	1.2
TOTAL	1.6	6.8	3.6	26.1	9.6	9.0	7.0	6.4	5.3	4.7	3.5	3.1	13.3	100.0

1/ Gross yield basis.
2/ Potatoes which meet the requirements for U.S. #1, as stated in U.S. Standards for Grades of Potatoes, USDA, Agricultural Marketing Service.
3/ Potatoes which meet the requirements for U.S. #2, as stated in U.S. Standards for Grades of Potatoes, USDA, Agricultural Marketing Service.
4/ Potatoes not meeting the requirements for U.S. #1 or U.S. #2, as stated in U.S. Standards for Grades of Potatoes, USDA, Agricultural Marketing Service.

TABLE 3 – ID[illegible] POTATOES: AVERAGE NUMBER [illegible] HILLS PER ACRE BY TYPE 2006 & 2007 CROPS [1/]

TYPE	NUMBER OF SAMPLES		AVERAGE NUMBERS OF HILLS PER ACRE	
	2006	2007	2006	2007
Reds	6	3	13,811	17,356
Whites	4	8	12,019	14,131
Yellows 2/		4		13,626
Russets	276	264	12,480	12,134
TOTAL	286	279	12,501	12,269

1/ Based on row measurements and counts in potato fields selected for objective yield samples.
2/ Field counts for yellow potatoes began in 2007.

TABLE 4 – IDAHO ALL POTATOES: QUANTITY LEFT IN FIELD AFTER HARVEST – 2006 & 2007 CROPS [1/]

AREA	2006 CROP		2007 CROP	
	NUMBER OF SAMPLES	CWT PER ACRE	NUMBER OF SAMPLES	CWT PER ACRE
Southwest	10	21	8	19
South Central	18	25	15	22
Eastern	35	28	38	27
Seed Co.'s	5	50	10	22
STATE	68	30	71	27

1/ Potatoes left in the field at time of harvest. Based on counts in potato fields selected for post harvest samples.

TABLE 5 – SELECTED STATES LONG POTATOES (RUSSET & SHEPODY) - 2007 CROP [1/]

STATE	1½" - 1 5/8"	1 5/8" - 1 7/8	1 7/8" - 2"	2" or 4-6 oz	6-7 Oz	7-8 oz	8-9 oz	9-10 oz	10-11 Oz	11-12 oz	12-13 oz	13-14 Oz	14 oz and over	Total
	Percentages (%)													
ID 2/	1.9	6.5	3.8	22.8	10.0	9.1	7.2	6.2	5.9	5.3	4.1	2.9	14.3	100.0
MN	1.3	5.2	4.9	22.3	11.0	10.8	7.9	7.1	6.1	5.9	3.4	3.4	10.7	100.0
ND	0.8	6.5	3.5	25.8	11.8	10.2	9.4	8.1	5.9	5.1	3.5	2.2	7.2	100.0
OR	1.3	4.2	3.3	21.5	9.3	8.5	8.6	6.7	6.3	5.6	5.1	3.6	16.0	100.0
WA	0.9	3.8	2.9	22.0	9.5	9.1	8.2	7.5	6.6	5.8	4.7	3.8	15.2	100.0
WI	0.3	4.4	3.6	23.7	10.3	8.3	9.3	8.2	5.4	5.0	3.3	3.2	15.0	100.0

1/ Gross yield basis.
2/ Russets only.

TABLE 6 – SELECTED STATES GRADING CATEGORIES - 2007 CROP [1/]

AREA AND GRADE	U.S. NO. 1 2 INCH MINIMUM 3/	U.S. NO. 2 OR PROCESSING USABLE 4/	CULL 5/	TOTAL
LONG POTATOES	Percentages (%)			
ID 5/	71.9	27.1	1.0	100.0
ME 6/	68.8	18.6	12.6	100.0
MN	73.1	19.4	7.5	100.0
ND	70.9	21.1	8.0	100.0
OR	73.4	24.9	1.7	100.0
WA	76.0	22.1	1.9	100.0
WI	83.0	16.0	1.0	100.0

1/ Gross yield basis.
2/ Potatoes which meet the requirements for U.S. #1, as stated in U.S. Standards for grades of Potatoes, USDA, Agricultural Marketing Service
3/ Potatoes which meet the requirements for U.S. #2, as stated in U.S. Standards for Grades of Potatoes, USDA, Agricultural Marketing Service.
4/ Potatoes not meeting the requirements for U.S. #1 or U.S. #2, as stated in U.S. Standards for Grades of Potatoes, USDA, Agricultural Marketing Service.
5/ Russet potatoes only.
6/ Percent of net yield – adjusted for field loss.