

2010 California Walnut Objective Measurement Report



Cooperating with the California Department of Food and Agriculture

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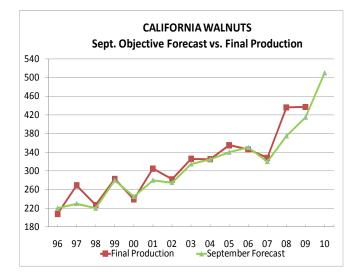
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WALNUT PRODUCTION FORECAST UP

The 2010 California walnut production is forecast at a record 510,000 tons, up 17 percent from 2009's production of 437,000 tons. This forecast is based on the 2010 Walnut Objective Measurement (O.M.) Survey, which was officially conducted August 1 through August 26, 2010. There were a few samples completed before August 1 for training and scheduling purposes.

Adequate chilling hours, above average rainfall, and a generally mild summer have all benefitted the 2010 walnut crop. This year's above average rainfall not only replenished groundwater supplies, but also helped the trees build a more vigorous root system. Harvesting is expected to start a little later than normal due to cooler than average summer temperatures.

The 2010 Walnut O.M. Survey utilized a total of 716 blocks with two sample trees per block. Survey data indicated an average nut set of 1,690 per tree, up 11 percent from 2009's average of 1,523. Percent of sound kernels in-shell was 97.8 percent Statewide. In-shell weight per nut was 21.3 grams, while the average in-shell suture measurement was 32.1 millimeters. The in-shell cross-width measurement was 32.1 and the average length in-shell was 38.5 millimeters.



Estimated nut sets, sizing measurements, average number of trees per acre, and estimated bearing acreage were used in the statistical models.

SURVEY HISTORY

The Walnut O.M. Survey began in 1958 to fulfill industry needs for an accurate walnut production forecast prior to harvest. The original sample was chosen proportionally to county and variety of bearing acreage. With each succeeding year, additions and deletions have been made in the sample to adjust for acreage removed, new bearing acreage, and operations that choose not to participate in the survey.

SAMPLING PROCEDURES

Once a block is randomly selected and permission is granted by the operation for enumerators to enter the block, two trees are randomly selected. An accessible branch is chosen, which is 5-15 percent of the total cross-sectional area of the primary limbs and reachable with a twelve-foot ladder. Measurements are made on the trunk, each primary, and each split leading to and including the accessible branch. The sample tree and accessible branch are marked by a single tag.

On the accessible branch, every first of five nuts is picked for use in size and grade determinations. If available, at least ten nuts are harvested from the accessible branch for this purpose.

The following measurements are made on nuts selected for sizing:

- 1. Weight of nut including hull
- 2. Width of shell at suture
- 3. Width of shell 90 degrees to suture line (cross-suture)
- 4. Length of shell
- 5. Kernel grade
- 6. Weight of nut in-shell

DATA RELIABILITY

The 80 percent confidence interval is from 461,000 tons to 559,000 tons.

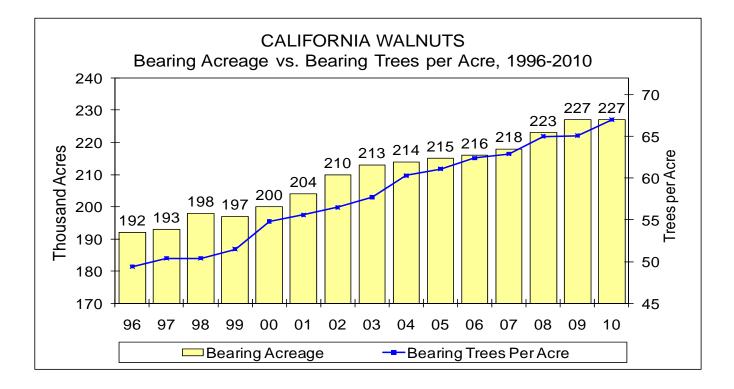
Year	Bearing Acres	Trees Per Acre	Per Bearing Acre	Total Production	Price Per Ton	Total Value
real	Bearing Acres	Trees Per Acre	То	ns	Dollars	1,000 Dollars
1988	177,000	43.8	1.18	209,000	922	192,698
1989	179,000	45.3	1.28	229,000	1,070	245,030
1990	181,000	45.7	1.25	227,000	1,040	236,080
1991	181,000	46.8	1.43	259,000	1,060	274,540
1992	178,000	47.5	1.14	203,000	1,410	286,230
1993	185,000	47.9	1.41	260,000	1,390	361,400
1994	189,000	48.7	1.23	232,000	1,030	238,960
1995	193,000	49.0	1.21	234,000	1,400	327,600
1996	192,000	49.4	1.08	208,000	1,580	328,640
1997	193,000	50.4	1.39	269,000	1,430	384,670
1998	198,000	50.4	1.15	227,000	1,050	238,350
1999	197,000	51.5	1.44	283,000	886	250,738
2000	200,000	54.8	1.20	239,000	1,240	296,360
2001	204,000	55.6	1.50	305,000	1,120	341,600
2002	210,000	56.5	1.34	282,000	1,170	329,940
2003	213,000	57.7	1.53	326,000	1,160	378,160
2004	214,000	60.3	1.52	325,000	1,390	451,750
2005	215,000	61.1	1.65	355,000	1,570	557,350
2006	216,000	62.4	1.60	346,000	1,630	563,980
2007	218,000	62.9	1.50	328,000	2,290	751,120
2008	223,000	65.0	1.96	436,000	1,280	558,080
2009 a/	227,000	65.1	1.93	437,000	1,690	738,530
2010 b/ c/ d/	227,000	67.0	2.25	510,000		

a/ Price Per Ton and Total Value are July 2010 preliminary data.

b/ Bearing years include plantings of the following: Chandler, Chico, Howard, Tulare (2006 & Earlier); 50-55, 59-124, 4946, Amigo, Ashley, Bardoni, Cisco, Earhorn, Grove, Gustine, Honeycutt, Houston, Jensen, Lompoc, Marchetti, Nuggett, Payne, Pedro, Serr, Sunland, Tehama, Trinta, UCD 67-13, Vina, Westside (2005 and Earlier); Franquette, Franquette Scharsch, Mayette, Placentia, Poe, Willsons/Willsons Wonder, Woodland (2003 & Earlier); all other varieties not specified (2004 & Earlier).

c/ Price Per Ton and Total Value preliminary data will be released July 2011.

d/ 2010 bearing acres were estimated based on trees coming of age during the 2010 crop year minus an estimate of the removals.



Walnut Objective Measurement Survey Date, By District

Instanting Cost	Management	Veen		Ve Weasurement Survey Date, By District		01-1-1 4/
(pm) 2000 19.7 22.4 19.7 22.5 2003 12.19 23.0 24.46 29.2 22.4 2004 22.00 24.11 19.7 22.5 2005 23.1 21.3 18.1 20.0 2006 18.8 24.1 19.7 22.2 2007 23.1 21.3 18.1 20.0 2008 17.0 23.1 10.7 22.2 2009 17.0 23.1 22.4 19.3 27.3 2009 17.0 23.1 22.2 19.3 27.3 27.3 2010 20.4 31.4 32.4 32.0 32.5 32.6	Measurement	Year	Coast 1/	Sacramento Valley 2/	San Joaquin Valley 3/	State 4/
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Kernel Grade - Percent Sound 1999 96.8 98.2 97.4 97.9 Percent Sound 2000 98.0 96.7 97.0 96.9 2001 98.3 97.5 98.1 97.8 2002 96.0 95.3 98.7 96.3 2003 95.5 95.4 99.3 97.0 2004 97.6 97.7 99.2 98.2 2005 97.4 96.5 98.8 97.5 2006 98.1 98.5 97.2 98.0 2007 97.8 97.9 99.2 98.4 2008 96.4 98.6 97.3 98.0 2009 94.9 97.0 99.6 97.9 2010 98.9 97.8 97.8 97.8 2000 1,195 1,812 1,204 1,483 2001 937 2,020 1,478 1,719 2002 1,254 1,982 1,142 1,559 2						
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Percent Sound 2000 98.0 96.7 97.0 96.9 2001 98.3 97.5 98.1 97.8 2002 96.0 95.3 98.7 96.3 2003 95.5 95.4 99.3 97.0 2004 97.6 97.7 99.2 98.2 2005 97.4 96.5 98.8 97.5 2006 98.1 98.5 97.2 98.0 2007 97.8 97.9 99.2 98.4 2008 96.4 98.6 97.3 98.0 2009 94.9 97.0 99.6 97.8 2010 98.9 97.8 97.8 97.8 2001 1,935 2,180 1,250 1,709 2002 1,254 1,982 1,142 1,572 2003 640 1,846 1,429 1,599 2004 924 1,943 1,168 1,526 2005 818 1,	Kernel Grade -	1999	96.8	98.2	97.4	97.9
2001 98.3 97.5 98.1 97.8 2002 96.0 95.3 98.7 96.3 2003 95.5 95.4 99.3 97.0 2004 97.6 97.7 99.2 98.2 2005 97.4 96.5 98.8 97.5 2006 98.1 98.5 97.2 98.0 2007 97.8 97.9 99.2 98.4 2008 96.4 98.6 97.3 98.0 2007 97.8 97.8 97.8 97.8 2010 98.9 97.8 97.8 97.8 2001 937 2,020 1,478 1,719 2002 1,254 1,982 1,142 1,572 2003 640 1,846 1,429 1,599 2004 924 1,943 1,162 1,526 2005 818 1,854 1,372 1,575 2006 1,316 1,660 1,267 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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200597.496.598.897.5200698.198.597.298.0200797.897.999.298.4200896.498.697.398.0200994.997.099.697.9201098.997.897.897.820001,1951,8121,2041,48320019372,0201,4781,71920021,2541,9821,1421,57220036401,8461,4291,59220049241,9431,1681,52620058181,8541,3721,57520061,3161,6601,2671,45820071,2211,5481,1621,35720089731,5921,2701,41620091,5311,7581,2501,523						
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2009 94.9 97.0 99.6 97.9 2010 98.9 97.8 97.8 97.8 Nuts Set Per Tree 1999 1,355 2,180 1,250 1,709 2000 1,195 1,812 1,204 1,483 2001 937 2,020 1,478 1,719 2002 1,254 1,982 1,142 1,572 2003 640 1,846 1,429 1,599 2004 924 1,943 1,168 1,526 2005 818 1,854 1,372 1,575 2006 1,316 1,660 1,267 1,458 2007 1,221 1,548 1,162 1,357 2008 973 1,592 1,270 1,416 2009 1,531 1,758 1,250 1,523						
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20019372,0201,4781,71920021,2541,9821,1421,57220036401,8461,4291,59920049241,9431,1681,52620058181,8541,3721,57520061,3161,6601,2671,45820071,2211,5481,1621,35720089731,5921,2701,41620091,5311,7581,2501,523						
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20058181,8541,3721,57520061,3161,6601,2671,45820071,2211,5481,1621,35720089731,5921,2701,41620091,5311,7581,2501,523						
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20071,2211,5481,1621,35720089731,5921,2701,41620091,5311,7581,2501,523		2006	1,316	1,660		1,458
20089731,5921,2701,41620091,5311,7581,2501,523						
2009 1,531 1,758 1,250 1,523	1					
			9/3			
	1	2009	1,531	1,758	1,250	
		2010	1.263	2,047		1.690

Coast includes: Contra Costa, Lake, Monterey, Napa, San Benito, San Luis Obispo, Santa Clara, and Sonoma counties. Sacramento Valley includes: Butte, Colusa, El Dorado, Glenn, Sacramento, Solano, Sutter, Tehama, Yolo, and Yuba counties. San Joaquin Valley includes: Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, and Tulare counties. 1/

2/ 3/ 4/

District and State averages are derived by weighting county averages by county bearing acreage figures.

4

Walnut Objective Measurement Survey Date, By Variety

In-Shell Weight (gm) 199 20.3 34.9 22.1 20.0 21.2 22.2 18.8 19.3 20.7 11.8 22.7 20.0 11.8 21.7 21.8 22.8 11.8 21.7 11.8 22.7 20.0 11.8 20.7 11.8 20.7 11.8 20.7 11.8 20.7 11.8 20.7 11.8 20.7 11.8 20.7 11.8 20.7 11.8 20.7 11.8 20.7 11.8 20.7 11.8 11.8 20.7 11.8 20.7 11.8 11.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8			T			tive Measuren				-		1		
(gm) 2000 17.5 22.9 21.7 18.3 22.8 18.3 19.3	Measurement	Year	Ashley	Chandler	Eureka	Franquette	Hartley	Howard	Payne	Serr	Tehama	Tulare	Vina	Other 1/
2001 17.8 22.7 20.0 21.2 22.2 16.3 17.8 21.7 10.9 19 2002 18.0 24.1 22.1 22.5 18.1 10.3 18.1 22.0 18.1 22.0 18.1 22.0 18.1 22.0 12.2 14.8 18.1 18.1 22.0 17.3 12.1 18.6 22.2 17.2 18.3 18.3 38.3 39.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3	5													20.9
2002 11.6 92.4 20.8 11.7 22.6	(gm)	2000	17.5			18.3			18.8	19.3			19.3	19.9
2003 17.1 22.6 21.0 23.7 25.2 17.6 17.2 20.8 18.5 22.3 18.5 20.8		2001	17.8	22.7	20.0	21.2	23.2		16.9	17.8	21.7		19.9	19.3
2003 17.1 22.6 21.0 23.7 25.2 17.6 17.2 20.8 18.5 22.3 18.5 20.8		2002	18.0	24.1	20.8	18.3	23.6		19.3	19.4	19.6		20.0	21.0
2004 11.4 20.4 20.4 20.4 12.4 20.5 16.5 16.7 16.6 16.8 - 18.1 20.2 2006 16.1 21.0 22.0 21.1 18.0 22.2 17.1 16.0 20.4 17.4 16.5 16.8 - 21.0 21.0 21.0 22.0 17.4 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.9 21.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 18.0 37.0 <td></td> <td>2003</td> <td>17.1</td> <td>23.6</td> <td></td> <td>23.7</td> <td></td> <td></td> <td>16.6</td> <td>17.2</td> <td></td> <td></td> <td>19.8</td> <td>22.1</td>		2003	17.1	23.6		23.7			16.6	17.2			19.8	22.1
2005 16.3 18.8 18.9 20.3 22.9 16.4 16.7 16.8 17.4 16.5 17.4 16.5									17.7					22.2
2006 16.1 22.3 12.2 14.2 14.8 15.0 20.4 21.8 21.0 16.8 22.2 17.2 16.4 16.8 22.2 12.0 16.8 22.4 12.0 16.9 16.8 16.8 12.2 12.1 16.3 16.8 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>20.0</td></th<>														20.0
807 15.8 21.5 21.0 18.6 22.2 22.5 17.2 15.7 16.8 22.8 12.0 16.8 22.8 12.0 16.8 22.8 12.0 16.8 22.8 12.0 16.8 16.8 22.8 12.0 15.2 11.6 16.8 12.8 11.6 16.8 12.8 11.6 16.8 12.8 11.6 16.8 12.1 16.7 15.7 16.8 16.8 12.8 13.1 30.8 33.3 30.0 32.8 32.8 31.1 30.8 33.3 30.0 32.8 31.8 31.6 31.7 31.1 31.0 31.6 31.6 31.7														
206 19.7 22.2 21.1 20.3 25.0 28.8 18.4 18.6 22.5 28.8 20.0 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.8 22.1 18.2 18.5 28.6 30.3 23.0 30.7 30.8 30.7 30.8 30.7 30.8 30.7 30.8 30.7 30.8 30.7 30.8 30.7 30.8 30.7 30.8 30.7 30.8 32.2 31.7 30.8 30.8 32.2 31.7 30.8 30.8 32.2 31.4 31.6 30.8 32.8 31.4 31.6 30.8 32.8 31.4 31.6 30.8														
2000 19.9 22.9 21.0 19.3 22.37 22.3 112.0 116.8 10.7 12.1 11.6 10.8 10.7 11.7 12.0 12.1 11.6 10.8 10.9 11.7 12.0 13.1 32.6 33.1														17.5
Edits 2010 18.5 21.7 19.7 20.4 22.4 21.9 18.1 18.9 22.1 18.7 18.7 in-Shell (mm) 2000 31.0 32.8 31.0 32.8 31.3 30.6 32.8 31.3 31.1														19.3
In-Shell Width 199 30.7 32.8 31.6 32.8 31.5 32.6 30.9 30.4 31 (mm) 2000 30.3 32.0 32.0 30.6 32.8														17.3
(mm) 200 31.0 32.8 31.3 30.6 32.8 31.1 31.1 30.3 32.0 2001 31.7 32.9 31.8 29.8 32.2 31.0 32.9 31.7 31.0 32.4 32.4 32.2 31.0 32.9 31.4 31.1 32.7 31.1 32.7 31.1 32.9 31.4 31.1 32.7 31.1 32.8 31.1 30.8 33.3 30.3 30.3 2006 32.0 32.3 31.1 30.7 31.1 30.3												22.1		18.0
2001 30.3 32.0 32.0 32.0 32.3	In-Shell Width	1999	30.7	32.8		31.0			31.5	32.6			30.4	31.2
2002 31.7 32.9 31.8 29.8 32.4 33.0 32.0 31.7 31.5 31.6	(mm)	2000	31.0	32.8	31.3	30.6	32.8		32.3	33.1	31.1		30.9	31.0
2004 31.0 32.9 32.1 32.4 33.2 31.7 31.6 31.6 30.8 32 2006 31.4 31.1 30.7 31.6 32.6 31.7 31.7 31.6 31.7 31.6 31.7 31.6 31.7 31.6 32.7 32.2 31.1 4.8 33.2 30.1 32.1 32.2 31.0 31.4 31.7 31.7 31.6 32.1 32.2 31.1 31.6 32.1 32.2 31.0 32.6 33.0 30.9 32.0 31.6 32.1 32.2 32.0 33.1 32.0 31.6 32.1 31.6 31.6 31.8 31.8 31.8 31.8 32.0 31.7 32.1 33.1 32.6 33.1 32.6 31.8 32.6 33.1 32.0 33.1 32.0 33.1 32.0		2001	30.3	32.0	32.0	30.5	32.3		31.2	31.8	31.3		30.3	30.7
2004 31.0 32.9 32.1 32.4 33.2 31.7 31.6 31.6 30.8 32 2006 31.4 31.1 30.7 31.6 32.6 31.7 31.7 31.6 31.7 31.6 31.7 31.6 31.7 31.6 32.7 32.2 31.1 4.8 33.2 30.1 32.1 32.2 31.0 31.4 31.7 31.7 31.6 32.1 32.2 31.1 31.6 32.1 32.2 31.0 32.6 33.0 30.9 32.0 31.6 32.1 32.2 32.0 33.1 32.0 31.6 32.1 31.6 31.6 31.8 31.8 31.8 31.8 32.0 31.7 32.1 33.1 32.6 33.1 32.6 31.8 32.6 33.1 32.0 33.1 32.0 33.1 32.0		2002	31.7	32.9	31.8	29.8	32.8		33.0	32.9	31.7		31.0	31.7
204 32.1 32.5 31.5 31.8 32.6 32.9 31.0 31.4 33.1 33.7 32.2 33.1 33.1 32.7 32.9 31.4 33.6 32.1 32.6 32.0 32.1 32.6 32.1 32.6 32.4 32.4 31.6 32.7 32.8 34.8 31.4 31.7 31.1 31.6 30.1 33.2 32.1 32.6 31.4 31.8 30.7 33.1 32.0 34.3 30.3 30.3 30.1 31.6 30.1 33.1 32.7 32.8 31.6 32.0 34.3 30.3 30.3 30.0 30.3 30.0 30.1 31.6 30.7 33.1 33.1 33.1 33.1 33.1 30.1 33.1 33.1 33.1 33.1 33.1 33.1 33.1 33.1 33.1 33.1 33.1 33.1 33.1 33.1 33.1 33.1 33.1 33.1<		2003	31.0	32.9		32.4			31.7	31.5			30.8	32.3
2005 31.4 31.1 30.7 31.6 32.5 31.7 31.0 31.7 31.1 29.9 32.3 32.0 32.7 32.9 31.4 30.5 32.9 32.0 32.0 32.0 32.0 32.0 32.1 32.6 32.4 32.6 32.4 32.6 32.4 32.6 32.4 32.0 33.3 30.7 31.0 31.4 31.4 32.0 33.1 30.7 31.0 31.2 32.2 31.0 31.0 31.2 32.2 31.0 31.0 31.2 33.2 31.0 31.0 31.2 31.0 31.2 31.0 31.0 31.0 31.0 31.0 31.0 31.2 31.0 31.2 31.0 31.2 31.0 31.0 31.2 31.0 31.2 31.0 31.0 31.2 31.0 31.1 31.0 31.2 31.0 31.1 31.0 31.2 31.0 31.1 31.1 31.0 31.2														33.4
2006 31.0 31.1 31.9 28.8 31.4 32.9 31.4 30.0 32.6 32.0 32.0 32.4 32.6 32.1 32.6 32.7 32.8 31.4 31.4 31.0 33.6 32.1 32.7 32.8 32.0 34.3 30.7 33.1 In-Shell Cross-Width 1999 30.8 44.0 31.0 31.6 31.7 32.1 32.6 31.6 31.6 31.6 30.7 33.1 (mm) 2001 31.1 33.7 32.7 30.1 32.2 31.0 31.2 30.6 33.1 32.2 30.6 33.1 32.2 30.6 33.1 32.2 30.6 33.1 32.7 30.6 33.1 32.6 31.8 30.1 31.8 33.0 30.1 31.8 33.0 30.1 31.6 32.7 32.0 32.1 32.6 31.8 33.1 31.0														32.4
2007 31.0 31.7 31.1 29.9 32.3 32.0 32.4 33.6 32.1 32.6 32.8 34.8 34.8 31.0 33.2 2009 32.4 32.4 31.6 30.0 32.4 31.6 32.1 32.1 32.1 32.0 34.3 30.7 31.7 2010 31.6 31.8 30.0 31.2 33.2 31.4 32.0 34.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 30.3 31.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 33.1 32.6 33.1 33.6 32.1 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6<														32.1
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etc 31.6 31.4 32.4 31.6 32.8 31.6 32.1 32.7 32.1 32.0 34.3 30.0 33.1 In-Shell Cross-Width (mm) 1999 30.8 34.0 31.0 31.2 33.2 31.4 31.6 32.2 32.2 32.6 31.6 31.6 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 32.0 33.6 31.1 33.1 32.2 33.1 33.4 34.0 31.6 33.1 32.2 32.2 32.2 32.2 32.2 32.2 32.2 33.1 32.8 31.1 31.1 31.4 34.1 31.6 32.2 32.0<														30.3
end 010 31.6 30.3 30.9 32.8 31.6 32.2 32.0 32.0 30.3 30.6 33.2 31.4 31.4 31.6 30.6 33.3 30.3 30.6 33.1 32.2 33.1 32.4 30.6 31.6 31.8 32.2 30.3 33.4 31.4 33.4 31.4 33.4 31.4 33.4 31.4 33.4 31.4 33.4 31.4 33.4 31.4 33.4 3														31.1
In-Shell Cross-Width 1999 30.8 34.0 31.0 31.2 31.2 32.0														31.5
(mm) 2000 31.2 33.9 32.0 31.6 33.2														30.3
2001 30.1 32.0 31.1 30.6 32.2 31.0 31.2 30.6 31.8 32.2 2003 30.6 33.1 32.2 32.3 33.1 31.1 33.4 31.1 33.4 31.6 31.8 32.2 2004 32.0 32.6 32.2 31.3 32.4 31.4 31.5 30.1 31.6 33.4 31.1 33.4 33.4 31.4 34.8 31.1 33.4 33.4 31.4 34.8 31.1 31.4 34.8 31.1 31.4 34.8 31.1 31.4 34.8 31.1 31.4 34.8 31.1 31.4 34.8 31.1 31.4 34.8 31.1 32.6 33.6 32.7 32.7 32.7 32.4 34.4 31.8 31.6 34.5 31.4 34.8 31.7 31.3 32.6 33.7 32.7 32.7 32.7 32.7 32.4 34.3<		1999							31.4	31.9				32.0
2001 30.1 32.0 31.1 30.6 32.2 31.0 31.2 30.9 31.8 32.2 2003 30.6 33.1 32.2 32.3 33.1 31.4 31.4 31.6	(mm)	2000	31.2	33.9	32.0	30.5	33.2		32.7	32.6	31.6		32.0	32.3
2002 31.8 33.7 32.7 30.1 32.9 31.1 32.6 31.8 31.8 32.6 31.3 32.8 31.1 31.4 31.4 31.4 31.4 31.4 31.4 31.4 31.4 32.0 30.9 32.3 33.1 32.8 31.1 31.4 34.4 31.4 34.4 34.8 31.7 31.4 34.4 34.8 31.7 31.1 34.4 34.8 32.7 32.0 32.9 31.6 31.5 33.4 34.1 32.4 32.3 31.7 31.0 32.2 31.0 32.2 31.0 32.4 32.5 31.7 31.6 32.7 32.0 <td< td=""><td></td><td>2001</td><td>30.1</td><td></td><td></td><td></td><td></td><td></td><td>31.0</td><td>31.2</td><td></td><td></td><td></td><td>30.8</td></td<>		2001	30.1						31.0	31.2				30.8
2003 30.6 33.1 32.2 32.3 33.1 31.2 30.6 31.6 31.3 32.8 2005 30.9 31.1 31.7 31.4 32.1 31.4 31.5 30.0 32.9 32.2 32.0 31.6 32.7 33.1 34 31.4 34.8 31.7 31.4 34.8 31.7 31.4 34.8 31.7 31.4 34.8 31.7 31.4 34.8 31.7 31.4 34.8 31.7 31.4 34.8 31.7 31.3 32.8 34.1 32.2 32.6 34.3 32.0 32.2 33.8 32.7 32.7 32.7 32.6 34.3 32.0 32.2 33.1 34.4 30.8 32.0 32.0 32.0 32.2 33.1 34.4 30.8 32.7 32.7 32.6 34.5 30.8 32.7 32.7 37.6 38.0 33.7 33.7 33.8 34.7 34.3		2002	31.8	33.7	32.7	30.1	32.9		33.1	32.6	31.8		31.8	32.4
2004 32.0 32.6 32.3 31.1 32.4 31.4 31.5 31.6 32.9 31.6 32.9 31.6 32.9 31.6 32.9 31.6 32.9 32.2 34.0 31.4 34.4 34.4 32.8 31.4 44.8 31.7 31.4 34.4 32.8 31.4 44.8 31.7 31.4 34.4 32.8 31.4 34.4 32.8 31.7 31.4 32.2 31.9 32.5 34.5 32.2 32.2 32.2 32.7 32.4 43.3 32.0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>31.2</td><td>30.6</td><td></td><td></td><td></td><td>32.2</td></td<>									31.2	30.6				32.2
2006 30.9 31.1 31.7 31.4 32.1 31.4 31.5 30.1 33.1 34.9 2007 31.6 32.7 32.0 30.9 32.8 34.1 32.2 31.4 34.8 31.7 31.4 2009 32.6 33.0 32.3 30.7 33.2 33.8 32.7 32.7 32.4 34.3 32.0 32.0 2009 32.6 33.0 32.2 31.0 31.2 33.1 31.5 34.1 30.8 30.0 32.4 32.2 31.7 31.4 30.8 30.0 32.4 32.5 31.7 31.4 30.8 30.0 32.4 32.6 31.7 31.4 30.8 30.0 31.4 30.4 30.0 32.7 32.7 32.7 32.7 33.4 33.0 33.7 33.8 33.7 33.8 33.8 33.8 33.7 33.8 33.8 33.7 33.8 33.8 33.8 33.8 <td></td> <td>33.1</td>														33.1
2006 32.1 33.9 32.9 32.2 34.0 32.6 33.0 32.9 33.1 44 2009 32.0 32.0 32.0 32.0 32.3 30.7 33.2 33.8 32.7 32.4 34.3 34.5 32.2 32.3 30.7 33.2 33.8 32.7 32.4 34.3 34.4 34.0 32.0 32.2 32.1 33.2 33.8 32.7 32.4 34.3 34.0 32.4 34.1 30.0 32.9 32.4 34.1 30.0 32.9 32.7 32.4 34.1 30.0 32.9 34.1 30.4 34.1 30.0 33.9 30.7 31.0 34.1 30.0 33.8 30.7 37.1 34.3 34.1 30.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0 33.0														32.6
2007 31.6 32.7 32.0 30.9 32.8 34.1 32.2 33.4 34.8 31.7 31.7 2009 32.6 33.0 32.3 30.7 33.2 33.8 32.7 32.7 32.4 34.3 32.0 32.2 2010 31.4 32.2 31.0 32.4 32.5 31.7 31.6 33.4 10 32.4 32.5 31.7 31.6 33.4 30.7 33.2 33.8 32.7 32.7 32.4 34.3 32.0 32.2 2000 35.8 39.4 43.0 37.4 38.2 38.1 38.5 37.3 37.4 38.6 2001 35.7 39.7 41.6 30.8 38.7 37.0 37.6 38.0 38.0 37.6 38.0 38.6 37.6 38.0 38.6 37.6 38.0 38.6 37.6 38														34.0
2006 32.0 32.9 31.6 31.5 33.4 34.1 32.2 31.9 32.5 34.5 32.2 32.3 2010 31.4 32.2 31.0 31.0 32.4 32.5 31.7 31.0 31.5 34.1 30.8 30.9 In-Shell Length (mm) 1999 36.6.9 40.4 42.6 38.2 39.6 38.1 38.5 37.3 38.7 38.8 2001 35.2 38.7 41.6 38.4 38.9 36.4 37.2 37.4 38.8 2003 35.7 39.7 41.7 40.9 40.4 36.0 37.6 38.0 39.0 37.0 36.1 38.0 39.0 38.0 36.0 38.0 38.0 39.0 39.3 38.0 36.7 38.9 36.4 37.6 38.0 38.0 <														
2009 32.6 33.0 32.3 30.7 33.2 33.8 32.7 32.4 34.3 32.0 32.7 In-Shell Length (mm) 1999 36.9 40.4 42.6 38.2 39.6 38.1 38.5 37.3 38.7 39.9 (mm) 2001 35.8 38.4 43.0 37.4 38.2 37.6 36.2 37.3 37.3 38.4 30.7 31.6 31.6 37.4 38.2 2002 36.1 39.7 41.4 37.0 38.4 37.7 38.2 37.5 36.8 37.6 37.4 38.8 2004 36.4 38.6 41.3 39.3 39.7 37.0 36.1 33.3 38.7 37.2 37.0 36.4 37.4 38.9 38.3 38.3 32.0 38.6 37.4 38.1 39.3 38.1 39.3 38.4 39.9 36.4 3														
2010 31.4 32.2 31.0 32.4 32.5 31.7 31.0 34.1 30.8 30.7 In-Shell Length (mm) 1999 36.9 40.4 42.6 38.2 39.6 38.1 38.5 37.3 38.7 37.3 38 2001 35.2 38.7 41.6 38.4 38.9 37.0 37.5 38.6 38.2 37.5 38.6 38.2 37.5 38.6 38.2 37.6 38.0 37.0 37.1 36.4 38.0 37.6 38.0 38.0 37.6 38.0 37.4 38.0 37.4 38.0 37.4 38.0 37.4 38.0 37.4 37.6 38.0 37.8 37.8 38.4 39.3 38.0 37.4 37.6 38.0 37.8 37.8 38.6 38.8 37.9 40.0 38.0 37.4 37.6 38.8 38.6														
In-Shell Length (mm) 1999 36.9 40.4 42.6 38.2 39.6 38.1 38.5 37.3 38.7 38.7 37.3 37.4 38.2 37.6 36.9 37.4 38.2 37.6 36.4 37.2 37.4 38.8 2001 35.7 38.7 41.6 37.0 38.7 38.2 37.6 36.4 37.4 38.5 36.4 37.4 38.0 38.0 37.4 38.0 37.4 38.0 37.4 38.0 37.4 38.0 38.0 38.0 <td></td>														
(mm) 2000 35.8 39.4 43.0 37.4 38.2 37.6 36.9 37.3 38.8 2001 35.2 38.1 41.6 38.4 38.7 38.2 37.6 36.4 37.7 37.4 38.8 2003 35.7 39.7 41.7 40.9 40.4 36.5 36.0 37.6 37.6 38.8 37.6 37.4 38.8 38.0 39.3 2005 36.3 38.4 41.6 40.3 39.8 37.2 37.0 36.6 38.0 38.0 38.0 38.0 38.0 38.0 39.2 37.4 37.4 37.6 37.8 38.4 39.3 38.0 38.0 38.0 38.0 38.0 38.0 38.0 38.0 38.0 37.4 37.6 37.4 36.7 38.9 37.4 37.6 38.0 37.9 37.7 38.0 37.8 37.6														30.8
2001 35.2 38.7 41.6 38.4 38.9 37.0 36.4 37.2 37.6 38.8 2002 36.1 39.7 41.1 37.0 36.1 38.2 37.5 36.8 37.6 38.8 2004 36.4 39.6 41.3 39.3 39.7 37.0 37.1 36.4	In-Shell Length	1999							38.1				38.7	39.5
2002 36.1 39.7 41.4 37.0 38.7 38.2 37.5 38.8 37.6 38.8 2003 36.7 39.7 41.7 40.9 40.4	(mm)	2000	35.8	39.4	43.0	37.4	38.2		38.2	37.6			37.3	38.3
2002 36.1 39.7 41.4 37.0 38.7		2001	35.2	38.7	41.6	38.4	38.9		37.0	36.4	37.2		37.4	38.3
2003 35.7 39.7 41.7 40.9 40.4 36.5 36.0 37.6 38.0 39.3 2004 36.4 39.6 41.3 39.3 39.7 37.0 37.1 36.4 38.0 38.0 2006 37.4 39.5 44.2 38.5 40.4 38.1 39.2 37.8 39.3 38.8 2007 35.7 38.1 43.3 38.8 37.9 37.4 37.3 36.4 36.7 38.4 39.3 2008 37.7 38.6 41.8 39.1 38.0 37.4 37.7 39.3 38.4 39.9 2010 36.6 96.7 33.1 97.8 96.4 97.3 96.4 98.3 98.4 98.3 98.0 98.3 98.0 98.3 98.0 98.3 98.0 98.3		2002	36.1	39.7		37.0	38.7		38.2	37.5	36.8		37.6	38.5
2004 36.4 39.6 41.3 39.3 39.7 37.0 37.1 36.4 37.4 38.8 2006 36.3 38.4 41.6 40.3 39.8 37.2 37.0 36.0 38.0 38.8 2007 35.7 38.1 43.2 38.6 37.9 37.4 37.4 37.3 36.4 36.7 38.9 36.8 37.9 2008 37.4 39.2 43.4 39.3 40.9 38.6 38.2 37.7 38.9 36.8 37.9 2009 38.0 39.9 43.5 38.1 40.2 38.0 38.6 38.2 37.7 38.9 37.9 40.0 2010 36.6 96.7 93.1 97.8 96.4 97.3 97.7 96.4 98.2 97.7 2001 94.3 98.8 98.9 97.0 97.2 97.3 96.3 <									36.5		37.6			39.1
2006 36.3 38.4 41.6 40.3 39.8 37.2 37.0 36.0 38.0 38 2006 37.4 39.5 44.2 38.5 40.4 37.3 36.4 36.7 38.9 38.8 37.9 37.4 37.4 39.3 38.4 39.3 2008 37.4 39.2 43.4 39.3 40.9 38.0 37.4 36.7 38.9 38.4 39.9 2009 38.0 39.9 43.5 38.1 40.2 38.6 38.2 37.7 38.9 38.8 37.9 2010 36.9 38.6 41.8 39.1 39.6 38.6 38.7 37.4 36.7 39.4 37.6 38.8 Kernel Grade - 1999 96.1 98.1 97.1 98.3 96.1 98.3 98.3 98.7 97.0 97.3 97.7 96.4 98.2 97.7 98.4 98.3														38.8
2006 37.4 39.5 44.2 38.5 40.4 38.1 39.2 37.8 39.3 38 2007 35.7 38.1 43.3 36.8 37.9 37.4 37.3 36.4 36.7 38.9 38.9 38.4 39 2008 37.4 39.9 43.5 38.1 40.2 38.0 38.6 37.7 38.9 37.4 37.6 37.4 36.7 38.9 37.9 40 2009 38.0 39.9 43.5 38.1 40.2 38.0 38.6 37.7 38.9 37.4 36.7 37.4 36.7 38.9 37.8 37.4 36.7 37.4 36.7 38.4 37.6 38.8 37.9 40.2 36.6 38.7 37.4 36.7 37.4 36.7 37.4 36.7 38.4 37.6 38.8 37.6 38.8 37.6 37.8 36.7 37.7 98.3 98.1 97.7 97.3														38.4
2007 35.7 38.1 43.3 36.8 37.9 37.4 37.3 36.4 36.7 38.9 36.8 37.7 2008 37.4 39.2 43.4 39.3 40.9 38.0 37.4 37.6 37.7 39.3 38.4 39.9 2009 38.0 39.9 43.5 38.1 40.2 38.0 38.2 37.7 38.9 37.4 36.7 39.4 37.6 38.8 Kernel Grade - 1999 96.1 98.1 97.1 98.3 98.1 97.3 96.4 98.2 97.7 2001 94.3 98.8 98.9 98.8 97.0 97.2 99.2 96.1 91.8 98.7 96.3 98.3 99.2 91.1 98.2 97.7 98.3 99.1 98.4 99.5 97.0 91.8 99.5 99.0 97.7 98.4 99.5 97.0 <														38.7
2008 37.4 39.2 43.4 39.3 40.9 38.0 37.4 37.6 37.7 39.3 38.4 39.9 2009 38.0 39.9 43.5 38.1 40.2 38.0 38.6 38.2 37.7 38.9 37.4 36.7 38.9 37.4 36.7 38.9 37.7 38.9 37.7 38.9 37.7 38.9 37.7 38.9 37.7 38.9 37.7 38.9 37.7 38.9 37.7 38.9 37.7 38.7 38.0 97.3 97.7 96.4 98.2 97 2001 94.3 98.8 97.4 98.8 97.0 97.3 96.3 98.0 98.2 97 2004 97.9 99.0 98.4 95.6 98.2 99.4 98.3 99.1 99.1 97 2005 96.7 96.9 98.4 95.7 97.0														
2009 38.0 39.9 43.5 38.1 40.2 38.0 38.6 38.2 37.7 38.9 37.9 40 Kernel Grade - Percent Sound 1999 99.1 98.1 97.1 98.3 98.1 95.0 98.3 96.4 98.2 97.7 Percent Sound 2000 95.6 96.7 93.1 97.8 96.4 97.3 97.7 96.4 98.2 97.7 2001 94.3 98.8 98.9 98.8 97.4 97.3 96.3 98.0 98.7 97.0 96.4 96.7 96.9 98.7 97.0 99.4 98.3 99.1 98.0 96.0 99.1 98.0 96.0 99.1 98.1 99.5 97.0 99.4 98.5 97.0 99.4 98.5 97.0 99.4 99.5 97.7 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
2010 36.9 38.6 41.8 39.1 39.6 36.6 38.7 37.4 36.7 39.4 37.6 38 Kernel Grade - 1999 96.1 98.1 97.1 98.3 98.1 95.0 98.3 96.4 98.2 97 Percent Sound 2000 95.6 96.7 93.1 97.8 96.4 97.3 96.3 98.0 98.2 97 2002 96.4 96.8 98.6 97.2 96.1 96.3 98.3 98.3 97.0 96.4 96.9 95.6 97.2 99.4 98.3 99.1 96.9 95.0 98.4 99.5 97.0 99.4 98.3 99.1 98.4 99.5 97.0 99.1 97.7 95.1 99.6 97.7 91.8 90.0 91.1 98.2 97.7 95.1<														
Kernel Grade - Percent Sound 1999 96.1 98.1 97.1 98.3 98.1 95.0 98.3 96.4 98.2 97 Percent Sound 2000 95.6 96.7 93.1 97.8 96.4 97.3 97.7 96.4 98.2 97 2001 94.3 98.8 98.9 98.8 97.4 97.3 96.3 98.0 98.7 97 96.4 2002 96.4 96.8 98.6 97.2 99.2 96.1 91.8 96.9 95.7 2004 97.9 99.0 98.4 95.6 98.2 99.4 99.5 97.0 98.4 99.5 97.0 98.4 99.1 98.2 97 2007 96.5 99.4 99.5 96.0 98.5 98.5 93.3 98.5 93.5 99.0 97.7 95.2														40.1
Percent Sound 2000 95.6 96.7 93.1 97.8 96.4 97.3 97.7 96.4 98.2 97.7 2001 94.3 98.8 98.9 98.8 97.4 97.3 96.3 98.0 98.7 97.9 2002 96.4 96.8 98.6 97.2 96.1 99.2 96.1 91.8 98.0 96.6 2004 97.9 99.0 98.4 95.6 98.2 99.4 98.3 99.1 98.0 96.0 2005 96.7 96.9 99.8 95.7 97.0 98.4 99.5 97.0 98.8 99.1 98.2 97.7 95.2 2007 96.5 99.4 99.5 96.0 98.5 98.5 99.3 98.5 93.5 98.1 97.3 95.2 98 2008 93.5 98.6 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>36.6</td><td></td><td></td><td></td><td>39.4</td><td></td><td>38.8</td></td<>								36.6				39.4		38.8
2001 94.3 98.8 98.9 98.8 97.4 97.3 96.3 98.0 98.7 97.7 2002 96.4 96.8 98.6 97.2 96.1 96.8 93.3 98.3 97.0 96.9 2004 97.5 97.4 98.8 97.0 97.2 99.4 98.1 91.1 96.1 91.8 96.1 91.8 96.1 91.8 96.1 91.9 96.1 91.9 91.0 96.1 91.1 91.0 98.4 91.5 92.0 96.1 91.8 96.0 99.1 97.7 98.2 97.0 98.4 99.5 99.0 97.7 95.2 98.1 99.1 97.7 95.2 98.1 99.1 97.7 97.3 95.2 98.8 99.7 96.3 95.1 97.3 95.2 98.1 2000 96.9 98.6 99.2 98.1 97.8 96.1 <td></td> <td>97.3</td>														97.3
2002 96.4 96.8 98.6 97.2 96.1 96.8 93.3 98.3 97.0 96.9 2003 97.5 97.4 98.8 97.0 97.2 99.2 96.1 91.8 96.9 95.6 95.7 97.0 99.4 98.3 99.1 99.1 98.0 96.7 96.7 96.7 99.1 98.3 99.1 99.1 99.0 99.1 99.1 99.1 99.0 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 99.1 98.2 97.7 99.0 99.0 99.1 98.2 97.7 93.2 98.3 97.3 98.1 99.1 93.3 98.3 97.7 91.3 92.0 98.4 99.2 98.8 99.7 96.3 97.7 91.3 92.1 93.3 98.1 99.1 93.3 97.3 98	Percent Sound													97.3
2003 97.5 97.4 98.8 97.0 97.2 99.2 96.1 91.8 96.9 95.5 2004 97.9 99.0 98.4 95.6 98.2 99.4 98.3 99.1 98.0 96 2005 96.7 96.9 99.8 95.7 97.0 98.4 99.5 97.0 98.4 99.5 97.0 98.4 99.5 96.0 98.5 99.3 98.5 99.0 97.7 95.5 99.0 97.7 95.5 99.0 97.7 95.5 98.5 99.0 97.7 95.2 98.5 98.5 98.5 98.5 98.1 99.1 93 93 98.5 98.1 99.1 93 93.5 98.1 99.1 93 93.5 98.1 99.1 93 93.5 99.0 97.7 95 96.5 98.1 99.1 93 93.5 99.0 97.7 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>97.5</td></td<>														97.5
2004 97.9 99.0 98.4 95.6 98.2 99.4 98.3 99.1 98.0 96 2005 96.7 96.9 99.8 95.7 97.0 98.4 99.5 97.0 99.1 97.0 99.1 97.0 99.1 97.0 98.4 99.5 97.0 98.4 99.5 97.0 97.7 97.7 91.8 96.0 98.5 98.5 99.0 97.7 95.5 2008 93.5 98.6 99.2 98.3 97.3 98.1 99.2 98.8 99.7 96.3 97.7 91 2009 96.9 98.6 99.2 98.3 97.3 98.1 99.2 98.8 99.7 96.3 97.7 91 2010 98.4 98.5 99.9 98.4 98.2 96.7 96.1 96.3 95.1 97.3 95.2 98		2002	96.4	96.8	98.6	97.2	96.1		96.8	93.3			97.0	96.8
2004 97.9 99.0 98.4 95.6 98.2 99.4 98.3 99.1 98.0 96 2005 96.7 96.9 99.8 95.7 97.0 98.4 99.5 97.0 99.1 97.0 99.1 97.0 99.1 97.0 98.4 99.5 97.0 98.4 99.5 97.0 97.7 97.7 91.8 96.0 98.5 98.5 99.0 97.7 95.5 2008 93.5 98.6 99.2 98.3 97.3 98.1 99.2 98.8 99.7 96.3 97.7 91 2009 96.9 98.6 99.2 98.3 97.3 98.1 99.2 98.8 99.7 96.3 97.7 91 2010 98.4 98.5 99.9 98.4 98.2 96.7 96.1 96.3 95.1 97.3 95.2 98		2003	97.5	97.4	98.8	97.0	97.2		99.2	96.1	91.8		96.9	95.1
2005 96.7 96.9 99.8 95.7 97.0 98.4 99.5 97.0 99.1 97 2006 98.4 99.2 95.1 99.6 97.7 91.8 96.0 99.1 98.2 97 2007 96.5 99.4 99.7 97.6 99.2 99.0 99.3 98.5 93.5 99.0 97.7 95.3 2008 93.5 98.7 91.7 97.6 99.2 99.0 90.0 94.5 99.7 96.3 97.7 91 2009 96.9 98.6 99.2 98.3 97.3 98.1 99.2 98.8 99.7 96.3 97.7 91 2010 98.4 98.5 99.9 98.4 98.2 96.7 96.1 96.3 95.1 97.3 95.2 98 Nuts Set Per Tree 1999 1,073 1,540 1,369 2,818 2,241 1,616														96.7
2006 98.4 99.2 95.1 99.6 97.7 91.8 96.0 99.1 98.2 97 2007 96.5 99.4 99.5 96.0 98.5 99.3 98.5 93.5 99.0 97.7 95.5 2008 93.5 98.7 91.7 97.6 99.2 99.0 99.0 94.5 96.5 98.1 99.1 99.1 93.3 97.7 91.7 97.6 99.2 99.0 99.0 94.5 96.5 98.1 99.1 93.3 97.7 91.7														97.9
2007 96.5 99.4 99.5 96.0 98.5 98.5 99.3 98.5 93.5 99.0 97.7 95 2008 93.5 98.7 91.7 97.6 99.2 99.0 99.0 94.5 96.5 98.1 99.1 933 2009 96.9 98.6 99.2 98.3 97.3 98.1 99.2 98.8 99.7 96.3 97.7 91 2010 98.4 98.5 99.9 98.4 98.2 96.7 96.1 96.3 95.1 97.3 95.2 98 Nuts Set Per Tree 1999 1,073 1,540 1,369 2,818 2,241 1,076 989 1,210 1,374 1,550 2000 1,633 1,212 1,325 1,899 1,878 1,696 886 1,167 1,488 1,55 2002 1,534 1,315 1,246 2,072 1,961														97.7
2008 93.5 98.7 91.7 97.6 99.2 99.0 99.0 94.5 96.5 98.1 99.1 93 2009 96.9 98.6 99.2 98.3 97.3 98.1 99.2 98.8 99.7 96.3 97.7 91 2010 98.4 98.5 99.9 98.4 98.2 96.7 96.1 96.3 95.1 97.3 95.2 98 Nuts Set Per Tree 1999 1,073 1,540 1,369 2,818 2,241 1,076 989 1,210 1,374 1,550 2001 1,510 1,741 1,718 1,819 2,049 1,443 1,342 1,560 1,644 1,56 1,37 2002 1,534 1,315 1,246 2,072 1,961 1,443 1,446 1,614 1,642 2003 1,421 1,594 1,858 1,195 1,735 -														95.9
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$														93.5
201098.498.599.998.498.296.796.196.395.197.395.298Nuts Set Per Tree19991,0731,5401,3692,8182,2411,0769891,2101,3741,55020001,6331,2121,3251,8991,8781,6968861,1671,5661,3720011,5101,7411,7181,8192,0491,4431,3421,5601,4881,5520021,5341,3151,2462,0721,9611,2461,2591,4461,6111,6620031,4211,5941,8581,1951,7351,9951,6791,0211,4441,3720041,5041,3811,2232,1082,0461,1521,1721,4881,4711,16420051,3231,7831,6391,2671,7291,4431,4291,6671,2511,22520061,1291,3861,6872,0041,8831,4431,4291,6671,2661,3320071,8751,0691,7311,5691,7381,1971,2021,7102,0589631,1831,6620081,6881,4252,2711,3431,4981,1561,3951,3711,1271,4381,235 <td></td>														
Nuts Set Per Tree 1999 1,073 1,540 1,369 2,818 2,241 1,076 989 1,210 1,374 1,550 2000 1,633 1,212 1,325 1,899 1,878 1,696 886 1,167 1,566 1,37 2001 1,510 1,741 1,718 1,819 2,049 1,443 1,342 1,560 1,611 1,66 2002 1,534 1,315 1,246 2,072 1,961 1,246 1,259 1,446 1,611 1,66 2003 1,421 1,594 1,858 1,195 1,735 1,995 1,679 1,021 1,544 1,37 2004 1,504 1,381 1,223 2,108 2,046 1,152 1,172 1,488 1,471 1,16 2005 1,323 1,783 1,639 1,267 1,7														91.0
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Nute Ort Dr. T													98.3
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Nuts Set Per Tree													1,536
20021,5341,3151,2462,0721,9611,2461,2591,4461,6111,6420031,4211,5941,8581,1951,7351,9951,6791,0211,5441,3720041,5041,3811,2232,1082,0461,1521,1721,4881,4711,1620051,3231,7831,6391,2671,7291,4431,4291,0671,2511,25220061,1291,3861,6872,0041,8831,3451,1724621,2661,3120071,8751,0691,7311,5691,7381,1971,2021,7102,0589631,1831,6420081,6881,4252,2711,3431,4981,1561,3951,3711,1271,4381,2351,7720091,6911,3461,5122,2202,0011,4191,3061,0661,8931,2811,7551,07														1,379
20031,4211,5941,8581,1951,7351,9951,6791,0211,5441,3720041,5041,3811,2232,1082,0461,1521,1721,4881,4711,1620051,3231,7831,6391,2671,7291,4431,4291,0671,2511,2520061,1291,3861,6872,0041,8831,3451,1724621,2661,3120071,8751,0691,7311,5691,7381,1971,2021,7102,0589631,1831,6420081,6881,4252,2711,3431,4981,1561,3951,3711,1271,4381,2351,7720091,6911,3461,5122,2202,0011,4191,3061,0661,8931,2811,7551,07														1,533
20041,5041,3811,2232,1082,0461,1521,1721,4881,4711,16220051,3231,7831,6391,2671,7291,4431,4291,0671,2511,25220061,1291,3861,6872,0041,8831,3451,1724621,2661,3120071,8751,0691,7311,5691,7381,1971,2021,7102,0589631,1831,6420081,6881,4252,2711,3431,4981,1561,3951,3711,1271,4381,2351,7720091,6911,3461,5122,2202,0011,4191,3061,0661,8931,2811,7551,07		2002	1,534		1,246	2,072	1,961		1,246	1,259	1,446		1,611	1,642
20041,5041,3811,2232,1082,0461,1521,1721,4881,4711,16220051,3231,7831,6391,2671,7291,4431,4291,0671,2511,25220061,1291,3861,6872,0041,8831,3451,1724621,2661,3120071,8751,0691,7311,5691,7381,1971,2021,7102,0589631,1831,6420081,6881,4252,2711,3431,4981,1561,3951,3711,1271,4381,2351,7720091,6911,3461,5122,2202,0011,4191,3061,0661,8931,2811,7551,07		2003	1,421	1,594	1,858	1,195	1,735		1,995	1,679	1,021		1,544	1,377
20051,3231,7831,6391,2671,7291,4431,4291,0671,2511,25220061,1291,3861,6872,0041,8831,3451,1724621,2661,3120071,8751,0691,7311,5691,7381,1971,2021,7102,0589631,1831,6420081,6881,4252,2711,3431,4981,1561,3951,3711,1271,4381,2351,7120091,6911,3461,5122,2202,0011,4191,3061,0661,8931,2811,7551,07		2004												1,167
20061,1291,3861,6872,0041,8831,3451,1724621,2661,3120071,8751,0691,7311,5691,7381,1971,2021,7102,0589631,1831,6420081,6881,4252,2711,3431,4981,1561,3951,3711,1271,4381,2351,7120091,6911,3461,5122,2202,0011,4191,3061,0661,8931,2811,7551,07														1,256
20071,8751,0691,7311,5691,7381,1971,2021,7102,0589631,1831,6420081,6881,4252,2711,3431,4981,1561,3951,3711,1271,4381,2351,7120091,6911,3461,5122,2202,0011,4191,3061,0661,8931,2811,7551,07														1,319
2008 1,688 1,425 2,271 1,343 1,498 1,156 1,395 1,371 1,127 1,438 1,235 1,71 2009 1,691 1,346 1,512 2,220 2,001 1,419 1,306 1,066 1,893 1,281 1,755 1,07														1,640
2009 1,691 1,346 1,512 2,220 2,001 1,419 1,306 1,066 1,893 1,281 1,755 1,07														
														1,712
2010 2,630 1,683 1,165 1,891 2.076 1.609 1.294 1.647 1.383 1.000 1.407 1.72														1,074
1/ Beginning in 2007, the Howard and Tulare varieties were taken out of "Other" and published separately.										1,647	1,383	1,000	1,407	1,729

1/ Beginning in 2007, the Howard and Tulare varieties were taken out of "Other" and published separately.

Percentage Distribution of	Walnut	She	I Sutu	re	Size.	Вv	Dist	rict an	d Varietv
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	U.S. Standards Size Intervals 1/																													
District and Variety							2007 2/						2008 Mth Jmb Lge Med Bby Oth						2009						2010					
	Mth	Jmb	Lge	Med	Bby	Oth	Mth	Jmb	Lge	Med	Bby	Oth							Mth	Jmb	Lge	Med	Bby	Oth	Mth	Jmb	Lge	Med	Bby	Oth
	Percent of Total 3/																													
DISTRICTS:																														
Coast	0	30	15	18	26	11	9	30	17	24	20	0	0	49	18	17	15	0	0	25	13	25	37	0	1	60	15	16	8	0
Sacramento Vly.	0	38	11	16	28	5	1	50	16	17	15	1	0	68	15	11	5	0	0	66	14	11	8	0	0	60	18	13	8	0
San Joaquin Vly.	2	68	16	9	5	0	1	63	16	11	8	0	1	66	16	10	6	1	1	70	14	9	5	0	1	55	20	15	8	0
VARIETIES:																														
Ashley	0	46	19	15	18	2	5	31	16	23	21	3	0	60	18	15	7	1	0	66	13	11	10	0	0	45	30	18	6	1
Chandler	1	48	15	14	19	3	1	54	17	15	13	1	0	63	19	11	6	0	0	67	16	10	6	0	0	54	21	16	8	0
Eureka	1	56	34	4	5	0	0	48	28	9	16	0	0	34	40	19	7	0	0	46	40	9	5	0	0	21	37	27	13	1
Franquette	0	21	15	19	34	12	0	23	17	30	28	1	0	43	18	23	15	0	0	27	18	25	31	0	0	34	21	28	16	1
Hartley	0	52	10	14	20	4	1	63	14	13	9	0	0	83	9	4	3	1	0	79	11	6	4	0	0	74	13	8	5	0
Howard							1	55	19	15	10	0	0	58	21	15	6	0	0	61	18	12	9	0	0	53	21	16	9	1
Payne	0	72	16	5	7	1	0	60	19	12	8	1	1	73	14	8	4	0	2	70	13	9	6	0	2	56	18	13	11	0
Serr	2	69	11	8	10	1	1	69	11	10	8	1	0	73	11	9	5	1	0	74	13	7	6	0	1	62	16	13	8	0
Tehama	1	52	14	12	17	5	0	38	26	21	14	1	0	74	10	10	6	0	0	62	19	10	9	0	0	67	15	13	4	1
Tulare							8	76	7	6	3	0	7	82	5	4	2	0	5	80	6	4	3	0	7	75	9	6	3	0
Vina	0	39	18	18	20	4	0	32	21	21	23	2	1	44	24	19	12	0	0	31	21	27	20	1	0	27	22	27	22	1
Other	4	54	10	12	16	3	0	29	18	22	30	0	2	37	15	29	16	1	3	42	13	18	23	1	0	32	16	21	30	1
STATE	1	51	13	13	18	3	1	55	16	15	12	1	1	67	16	11	6	0	1	66	14	11	8	0	1	58	18	14	9	0
Number of																														
Shells Measured	13,491 13,219									13,	485					14,	625					14,	154							

1/ Sizes used are as follows: Mammoth -- Larger than 96/64" in diameter; Jumbo -- 80/64" to 96/64"; Large -- 76/64" to 80/64" for Eureka variety, 77/64" to 80/64" for all other varieties; Medium -- 73/64" to 76/64" for Eureka, 73/64" to 77/64" for all others; Baby -- 60/64" to 73/64"; and Others -- below 60/64".

2/ Beginning in 2007, the Howard and Tulare varieties were taken out of "Other" and published separately.

3/ Percentage distributions based upon nut samples taken in the field, may not equal 100 percent due to rounding.

The California Walnut Industry has been very supportive. We appreciate your continued cooperation!

VIC TOLOMEO, Director SARAH HOFFMAN – KELLY KRUG, Deputy Directors

> DOUG FLOHR – JENNIFER VAN COURT Statisticians – Estimates Group

USDA, NASS, California Field Office publications are available free-of-charge on the Internet at: <u>www.nass.usda.gov/ca</u>