

# 2010 California Walnut Objective Measurement Report



Cooperating with the California Department of Food and Agriculture

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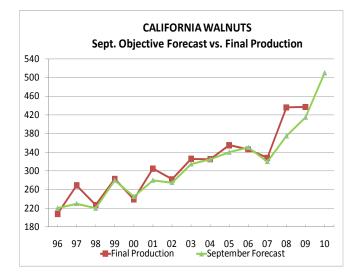
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## WALNUT PRODUCTION FORECAST UP

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.

California English Walnut Acreage. Production. Price And Value In-Shell

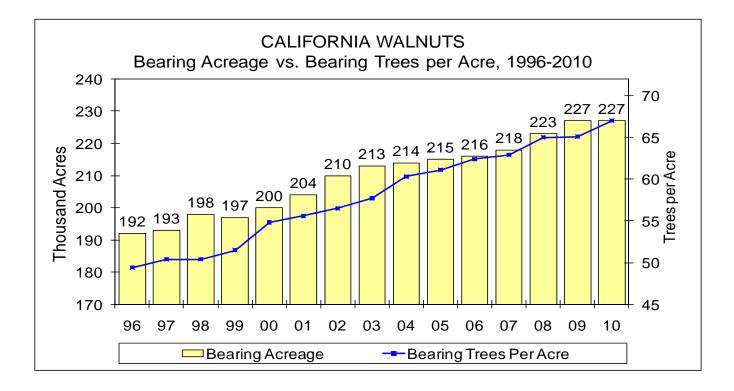
Year Bearing Acres		Trace Der Aero	Per Bearing Acre	Total Production	Price Per Ton	Total Value			
rear	Bearing Acres	Trees Per Acre	То	ns	Dollars	1,000 Dollars			
1988	177,000	43.8	1.18	209,000	922	192,698			
1989	179,000	45.3	1.28	229,000	1,070	245,030			
1990	181,000	45.7	1.25	227,000	1,040	236,080			
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

Measurement	Year	Coast 1/	Sacramento Valley 2/	San Joaquin Valley 3/	State 4/
In-Shell Weight	1999	21.0	24.9	19.5	23.0
(gm)	2000	19.7	22.4	19.7	21.2
	2001	21.9	23.7	18.1	21.5
	2002	19.1	22.9	20.5	22.0
	2003	23.0	24.6	19.2	22.4
	2004	22.0	24.1	19.7	22.5
	2005	23.1	21.3	18.1	20.0
	2006	19.8	24.1	21.0	22.7
	2007	19.1	21.4	18.7	20.3
	2008	20.0	23.5	20.7	22.2
	2009	17.0	23.1	20.6	22.0
	2010	20.8	22.5	19.3	21.3
In-Shell Width	1999	31.2	32.6	31.6	32.2
(mm)	2000	31.5	32.4	32.1	32.2
()	2001	31.7	31.8	31.6	31.7
	2002	31.4	32.2	32.7	32.4
	2002	32.1	32.8	32.0	32.5
			32.0		32.5
	2004	31.4	32.5	32.7	32.6
	2005	32.9	31.4	32.1	31.7
	2006	29.5	30.3	32.9	31.4
	2007	31.6	31.5	32.4	31.9
	2008	31.4	32.7	32.6	32.6
	2009	29.8	32.5	32.9	32.5
	2010	32.1	32.1	32.1	32.1
In-Shell Cross-Width	1999	31.6	33.3	31.8	32.7
(mm)	2000	31.3	33.0	32.6	32.8
	2001	31.1	31.7	31.5	31.6
	2002	31.0	32.6	33.1	32.7
	2003	31.7	32.7	32.0	32.4
	2000	31.5	32.2	33.1	32.5
	2004	32.2	31.3	32.0	31.6
		32.3	34.0	33.2	
	2006				33.6
	2007	31.6	32.5	32.9	32.6
	2008	31.4	33.2	32.6	32.9
	2009	29.9	33.1	33.1	33.0
	2010	31.6	32.2	32.0	32.1
In-Shell Length	1999	38.3	39.7	38.9	39.4
(mm)	2000	37.4	38.2	38.4	38.2
	2001	38.6	38.5	37.9	38.3
	2002	37.5	38.4	38.8	38.5
	2003	38.8	39.7	38.3	39.1
	2004	37.7	39.1	38.7	39.0
	2004	42.0	38.4	38.7	38.6
	2006	38.6	39.6	39.5	39.5
	2000	37.4	33.0	38.1	37.6
	2007	39.2	39.5	39.1	39.3
	2008	39.2 36.9	39.5 39.6	39.1 39.1	39.3 39.3
	2010	39.8	38.4	38.7	38.5
Kernel Grade -	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
	2009	94.9 98.9	97.0	97.8	97.8
Nuto Cot Dor Tree				31.0 4.0E0	
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
	2009	1,263	2,047	1,313	1,690
1/ Capat includes: Captra Casta I	2010			1,010	1,090

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.

Walnut Objective Measurement Survey Date, By Variety

In-Shell Weight     1999     20.3     24.9     22.1     20.0     24.6      18.8     19.3     19.8      20.7       (gm)     2000     17.5     22.9     21.7     18.3     12.3     19.4     17.8     21.7      18.8     19.3     19.4     19.6      20.0       2000     17.1     23.6     21.3     12.3     19.4     17.7     18.5     20.3      18.1       2005     16.1     23.1     12.8     20.3     22.9      16.4     16.7     16.6      18.1       2006     16.1     23.1     22.2     21.1     19.3     22.0     21.5     22.6     16.8     18.9     22.1     18.7       2000     19.9     22.2     21.1     19.7     20.4     23.4     12.2     18.3     16.3     18.9     22.1     18.7       In-Shell Width     1999     30.7     32.8     31.3     31.5     32.8	Moocurament							ey Date, By	-	-				
(gm)     2000     17.5     22.9     21.7     18.3     22.8      18.8     19.3     19.3     19.4		Year	Ashley	Chandler	Eureka	Franquette	Hartley	Howard	Payne	Serr	Tehama	Tulare	Vina	Other 1/
2001     17.8     22.7     20.0     21.2     23.2	In-Shell Weight	1999							19.0	20.3			20.7	20.9
2002     18.0     24.1     20.6     18.3     22.6      16.6     17.2     20.8      18.3     18.4     18.4     22.6      16.6     17.2     20.8      18.1       2006     18.1     23.0     22.3     19.2     24.8      19.1     20.4     21.8      18.3       2006     18.1     23.0     22.2     11.0     12.6     22.2     22.2     22.7     11.8     11.8     22.8     21.0     12.3     12.2     12.8     11.8     11.8     22.1     13.8     13.7     22.3     18.2     18.5     20.6     33.1<	(gm)	2000	17.5	22.9		18.3			18.8	19.3			19.3	19.9
2003     17.1     23.6     21.0     23.7     25.2      16.6     17.2     20.8      19.8       2006     16.3     19.8     19.8     19.4     22.1     124.5      17.7     18.5     20.3     22.9      16.4     16.6      18.1       2006     18.1     22.2     21.0     18.6     22.2     22.5     17.2     15.7     16.8     22.2     8     18.4     18.6     22.2     8     18.7     22.8     10.0     18.5     20.6     21.8     18.7       2010     18.5     21.7     19.7     20.4     23.4     21.9     18.1     16.8     18.9     22.1     18.7       (mm)     2001     31.0     32.8     31.3     30.6     32.8     31.8     23.8     23.8     23.8     23.8     23.8     23.8     23.8     23.8     23.8     23.8     23.8     23.8     23.8     23.8     23.8     23.8     23.8 <td< td=""><td></td><td>2001</td><td>17.8</td><td>22.7</td><td>20.0</td><td>21.2</td><td></td><td></td><td>16.9</td><td>17.8</td><td></td><td></td><td>19.9</td><td>19.3</td></td<>		2001	17.8	22.7	20.0	21.2			16.9	17.8			19.9	19.3
2004     18.4     22.4     22.1     24.5      17.1     18.5     20.3      19.1       2006     18.1     23.0     22.3     19.2     24.8      19.0     20.4     21.8      13.1       2007     15.8     21.5     21.0     13.6     22.2     22.2     22.5     17.2     15.7     16.8     22.8     20.0     23.8     18.4     18.6     22.5     22.8     21.0     18.5     22.6     21.0     18.5     22.6     21.0     18.5     22.1     8.1.8     7.8     7.3     7.3     33.1     33.1     33.1     33.1     33.1     33.1     33.2     32.0     32.0     32.0     32.0     32.0     32.8     33.4     33.2     33.1     31.1      33.0     32.0     32.0     32.0     32.1     32.4     31.6     33.1     33.1     33.1     33.1     33.1     33.1     33.1     33.1     33.1     33.1     33.1     33.1		2002	18.0	24.1	20.8	18.3	23.6		19.3	19.4	19.6		20.0	21.0
2005     16.3     19.8     18.9     20.3     22.9		2003	17.1	23.6	21.0	23.7	25.2		16.6	17.2	20.8		19.8	22.1
2005     16.3     19.8     18.9     20.3     22.9		2004	18.4	23.4	20.4	22.1	24.5		17.7	18.5	20.3		19.1	22.2
2007     15.8     21.0     18.6     22.2     22.5     17.2     15.7     16.8     22.2     12.2       2009     19.9     22.9     21.0     19.3     25.0     23.8     18.4     16.5     22.8     22.8     20.6     21.8     18.4     18.5     22.6     21.8     18.4     18.5     22.6     22.8     18.4     18.7     18.5     32.6     21.9     18.1     18.5     32.6     21.8     13.4     31.1      33.0     30.6     32.8      32.3     31.4     31.1      30.9      30.4     31.5     32.6      32.3     31.4     31.1      30.9      30.9      30.9      30.9     31.1      30.8     32.0      31.4     31.1      30.8     32.0     32.0     32.0     32.1     32.1     32.1     32.1     32.1     32.1     32.1     32.1     32.1     32.1     32.1		2005	16.3	19.8	18.9	20.3	22.9		16.4	16.7			18.1	20.0
2007     15.8     21.5     21.0     18.6     22.2     22.5     17.2     15.7     16.8     22.2     12.2     12.1       2009     19.9     22.9     21.0     19.3     25.7     22.3     18.4     18.6     22.5     22.8     18.4     18.6     22.6     21.8     18.4     18.6     22.6     22.8     18.2     18.6     18.6     22.9     22.1     18.2     18.6     18.6     22.9     22.1     18.3     30.6     32.8     33.1     31.1      30.9      30.9     20.01     30.3     32.0     32.0     30.5     32.3      31.6     31.6     31.7      30.9      30.9      30.9      30.9     31.0      30.8     32.0      31.7     31.4     31.1      30.8     32.0     32.0     32.1     32.1     32.1     32.1     32.1     32.1     32.1     32.1     32.2     31.0     31.1		2006	18.1	23.0	22.3	19.2	24.8		19.0	20.4	21.8		21.3	22.6
2008     19.7     22.2     21.1     20.3     25.0     23.8     18.4     18.6     22.5     22.8     20.0       In-Shell Width     1999     30.7     32.8     30.4     31.0     32.7     22.3     18.2     11.6     16.8     12.6     30.9								22.5				22.2		17.5
2009     19.9     22.9     21.0     19.3     22.7     22.3     18.2     18.5     20.6     21.8     18.7       In-Shell Width     1999     30.7     32.8     30.4     31.0     32.8														19.3
2010     18.5     21.7     19.7     20.4     22.4     21.9     18.1     16.8     18.9     22.1     18.7       In-Shell (mm)     2000     31.0     32.8     31.3     30.6     32.8      31.5     32.6     30.4     31.4      30.0       2000     31.0     32.8     31.7     32.9     31.8     22.4     32.4     33.2														17.3
In-Shell Width (mm)     1999     30.7     32.8     30.4     31.0     32.8														18.0
(mm)     2000     31.0     32.8     31.3     32.0     33.6     32.8     33.1     31.1      30.3       2002     31.7     32.9     31.8     22.8     32.8      31.0     32.9     31.7      30.0     32.9     31.7      30.3       2004     32.1     32.2     32.4     33.2      31.7     31.5     31.6	In-Shell Width													31.2
2001     2003     30.3     32.0     32.0     30.5     32.3														31.0
2002     31.7     32.9     31.8     29.8     32.8      33.0     32.9     31.7      31.0       2004     32.1     32.5     31.5     31.8     32.8      31.7     31.5     31.6     32.9     33.4     31.5      30.8       2006     31.0     31.1     30.7     21.8     32.7     32.9     31.4      31.5     31.0     31.6     32.7     32.9     31.4      31.5     30.3     30.3     32.9     31.4      31.0     31.6     31.7     31.1     29.9     32.3     32.0     32.1     32.7     32.8     34.8     31.4      31.0     31.7     31.2     31.0     33.2     32.1     32.6     32.7     32.1     32.7     33.1     32.4     33.1     32.4     33.1     32.0     33.1     32.2     33.1     32.4     31.1     33.6     32.1     32.7     32.6     31.6     31.5     33.4     33.2	(11111)													30.7
2003     31.0     32.9     32.1     32.4     32.8      31.7     31.6      30.8       2005     31.4     31.1     30.7     31.6     32.8     32.9     33.4     31.5      31.7     32.2     31.0														
2004     32.1     32.5     31.5     31.8     32.8      32.9     33.4     31.5      31.4       2006     31.0     31.1     30.7     32.5      32.7     32.9     31.4      30.5       2007     31.0     31.7     31.1     29.9     32.3     32.0     32.1     32.7     32.8     31.6     30.1     32.1     32.7     32.8     31.8     31.4     30.7     33.8     33.1     30.3     30.3       In-Shell Cross-Width     1999     30.8     34.0     31.0     31.2     33.2      31.4     31.8     30.3     30.3       In-Shell Cross-Width     1999     30.8     34.0     31.0     31.2     33.2      31.4     31.6      31.6     31.8     30.3     30.2     30.5     33.2      31.4     31.5     30.2     30.3     30.6     31.6      31.6     31.8     32.0     32.0     32.2     3														31.7
2005     31.4     31.1     30.7     31.6     32.5														32.3
2006     31.0     31.1     31.9     28.8     31.4      32.7     32.9     31.4      30.5       2007     31.0     31.7     31.1     29.9     32.3     32.0     32.1     32.6     32.7     32.8     34.8     31.4       2008     32.4     31.6     30.1     33.2     21.1     32.7     33.1     32.0     34.3     30.7       2010     31.6     31.8     30.0     31.2     32.2      31.4     31.9     30.8     30.3     33.2      31.4     31.9     30.8      31.7     32.6     31.6      32.0       2001     30.1     32.0     31.1     30.6     32.2      31.1     31.4     31.4     34.8      31.8       2003     30.6     33.1     32.2     32.3     33.1     32.4     31.1     31.4     34.4     34.8     31.1       2003     30.6     33.1     32.2														33.4
2007     31.0     31.7     31.1     29.9     32.3     32.0     32.1     32.5     31.0     34.5     30.3       2009     32.4     32.4     32.4     31.6     30.1     33.2     32.1     32.7     32.8     34.8     31.4       2010     31.6     31.8     30.3     30.9     32.8     31.6     32.1     32.2     32.0     34.3     30.7       2010     31.1     32.0     33.2      31.4     31.9     30.8      32.6       2001     30.1     32.0     31.1     30.6     33.1     32.2      31.4     31.4     31.6      32.6       2002     31.8     33.1     32.2     32.3     33.1     32.6     31.3     32.6     31.3     32.6     31.3     32.6     31.3     31.4     34.1      31.3     31.0      31.3     32.9     30.6     33.0     32.9      33.1     32.6     33.0 <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>32.4</td></td<>														32.4
2008     32.0     32.3     31.2     31.0     33.6     32.1     32.6     32.7     31.1     32.0     34.3     30.7       In-Shell Cross-Width     1999     30.8     34.0     31.0     31.2     32.2     31.1     32.2     32.1     32.7     33.1     32.0     34.3     30.3       In-Shell Cross-Width     1999     30.8     34.0     31.0     31.2     33.2      31.4     31.9     30.8      31.6      32.7     32.6     31.6      32.7     30.6     33.1     32.2      31.7     32.6     31.8      31.8     32.6     31.8      31.4     31.6														32.1
2009     32.4     32.4     31.6     30.1     32.2     32.7     33.1     32.0     34.3     30.7       In-Shell Cross-Width (mm)     1999     30.8     34.0     31.0     31.2     33.2      31.4     31.9     32.0     34.3     30.3       In-Shell Cross-Width (mm)     2000     31.2     33.9     32.0     30.5     33.2      31.4     31.9     30.8      31.6       2001     30.1     32.0     31.1     30.6     32.7     32.6     31.8      31.8       2002     31.8     33.7     32.7     30.1     32.8      33.1     32.6     31.8      31.8       2004     32.0     32.6     32.3     31.3     32.8      33.1     33.4     34.1     32.4     33.1     33.4     34.1     32.4     33.3     32.9      33.1     32.4     33.1     33.4     34.1     32.4     33.3     31.4     34.4     34														30.3
2010     31.6     31.8     30.3     30.9     32.8     31.6     32.1     32.2     32.0     34.3     30.3       In-Shell Cross-Width     1999     30.8     34.0     31.0     31.2     33.2														31.1
In-Shell Cross-Width     1999     30.8     34.0     31.0     31.2     33.2      31.4     31.9     30.8      31.5       (mm)     2001     30.1     32.0     31.1     30.6     32.2      32.7     32.6     31.6      30.6       2002     31.8     33.7     32.7     30.1     32.2     32.3     31.1     32.6     31.8      30.6       2003     30.6     33.1     32.2     32.3     31.3     32.6     31.8      30.9       2004     32.0     32.6     32.3     31.3     32.8      31.4     31.4     31.6      30.9       2005     30.9     31.1     31.7     31.4     32.1      31.4     31.4     34.8     31.7     31.1     33.4     31.0      33.1     32.4     32.3     31.1     33.4     34.1     32.5     34.5     32.2       2007     31.6     3														31.5
(mm)     2000     31.2     33.9     32.0     30.5     33.2      32.7     32.6     31.6      32.0       2001     30.1     32.0     31.1     30.6     32.2      31.0     31.2     30.9      31.1     32.6     31.8      31.1       2003     30.6     33.1     32.2     32.3     31.1     32.6     31.6     31.1     33.4     31.0      31.4     34.4     31.0      31.1       2004     32.0     32.6     32.1     31.4     34.4     31.5     30.1      31.4     34.4     31.7     31.4     34.4     31.7     31.4     34.4     31.7     31.4     34.3     31.1     32.4     32.1     33.1     32.4     32.3     31.7     31.4     34.8     31.7     31.4     34.8     31.7     31.0     31.5     34.1     32.2     31.4     34.8     31.7     32.0     32.3     31.7     31.0								31.6	32.1			34.3		30.3
(mm)     2000     31.2     33.9     32.0     30.5     33.2      32.7     32.6     31.6      32.0       2001     30.1     32.0     31.1     30.6     32.2      31.0     31.2     30.9      31.1     32.6     31.8      31.1       2003     30.6     33.1     32.2     32.3     31.1     32.6     31.6     31.1     33.4     31.0      31.4     34.4     31.0      31.1       2004     32.0     32.6     32.1     31.4     34.4     31.5     30.1      31.4     34.4     31.7     31.4     34.4     31.7     31.4     34.4     31.7     31.4     34.3     31.1     32.4     32.1     33.1     32.4     32.3     31.7     31.4     34.8     31.7     31.4     34.8     31.7     31.0     31.5     34.1     32.2     31.4     34.8     31.7     32.0     32.3     31.7     31.0	In-Shell Cross-Width	1999	30.8	34.0	31.0	31.2	33.2		31.4	31.9	30.8		31.5	32.0
2001     30.1     32.0     31.1     30.6     32.2      31.0     31.2     30.9      30.6       2002     31.8     33.7     32.7     30.1     32.9      31.2     30.6     31.6      31.3       2004     32.0     32.6     32.3     31.3     32.8      31.4     31.5     30.1      30.9       2005     30.9     31.1     31.7     31.4     32.6     33.0     32.9      31.6     31.7     30.1      30.9     32.8     34.1     32.4     32.3     31.4     34.8     31.7     31.4     34.8     32.2     32.9     32.2     32.4     32.4     32.2     33.8     32.2     32.9     32.2     32.4     32.4     32.4     33.4     34.1     34.3     32.0     32.2     31.0     32.4     32.5     37.3      38.7       (mm)     1999     36.9     40.4     42.6     38.2							33.2		32.7		31.6			32.3
2002     31.8     33.7     32.7     30.1     32.9      33.1     32.6     31.8      31.2     30.6     31.8      31.1     31.2     30.6     31.6      31.1     31.2     30.6     31.6      31.1     31.4     31.0      31.1       2005     30.9     31.1     31.7     31.4     32.1      31.1     31.4     31.5     30.1      31.6       2006     32.1     33.9     32.9     32.2     34.0      32.6     33.1     32.4     32.4     32.3     31.4     34.8     31.7     32.0     30.9     32.8     34.1     32.4     32.5     34.4     31.6     32.2     31.0     31.0     32.4     32.4     32.3     32.7     32.4     34.3     32.2     33.1     30.0     32.5     34.4     33.2     32.7     32.4     34.3     32.2     32.7     32.4     34.3     32.6     32.7     32.7<	. ,						32.2				30.9			30.8
2003     30.6     33.1     32.2     32.3     33.1      31.2     30.6     31.6      31.3       2004     32.0     32.6     32.3     31.3     32.8      33.1     33.4     31.0      30.9       2005     30.9     31.1     31.7     31.4     32.1      31.4     31.5     30.9     32.2     31.0      32.6     30.0     32.9      33.1       2007     31.6     32.7     32.0     30.9     32.8     34.1     32.2     31.9     32.5     34.5     32.2       2008     32.0     32.9     31.6     31.5     33.4     34.1     32.2     31.9     32.5     34.5     32.2       2010     31.4     32.2     31.0     31.7     32.4     32.5     31.7     31.0     31.5     33.4     34.1     30.8     32.7     32.4     34.3     32.2     31.9     32.5     34.5     32.2     31.6 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>33.1</td><td></td><td></td><td></td><td></td><td>32.4</td></td<>									33.1					32.4
2004     32.0     32.6     32.3     31.3     32.8      33.1     33.4     31.0      30.9       2005     30.9     31.1     31.7     31.4     32.1      32.6     33.0     32.9     32.2     34.0      32.6     33.0     32.9     32.1     33.1     32.4     34.1     32.4     32.3     31.4     34.8     31.7       2009     32.0     32.9     31.6     31.5     33.4     34.1     32.2     31.9     32.5     34.5     32.0       2009     32.6     33.0     32.3     30.7     32.2     38.1     38.5     37.3      38.1     38.5     37.3      38.1     38.5     37.3      37.4     38.2     37.6     36.4     37.2      37.4     38.2     37.6     36.4     37.2      37.4       (mm)     2001     35.2     38.7     41.7     40.9     40.4      38.2 <t< 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>32.2</td></t<>														32.2
2005     30.9     31.1     31.7     31.4     32.1      31.4     31.5     30.1      31.6       2006     32.1     33.9     32.9     32.2     34.0      32.6     33.0     32.9      33.1       2007     31.6     32.7     32.0     32.9     31.6     31.5     33.4     34.1     32.2     31.9     32.5     34.5     32.2       2009     32.6     33.0     32.3     30.7     33.2     33.8     32.7     32.7     32.4     34.3     32.0       2010     31.4     32.2     31.0     32.4     32.5     31.7     31.0     31.5     34.1     30.8       In-Shell Length (mm)     1999     36.9     40.4     42.6     38.2     37.6     36.9      37.4       2001     35.2     38.7     41.6     38.4     38.9      37.0     36.4     37.2     37.6     36.8      37.4       2003														33.1
2006     32.1     33.9     32.9     32.2     34.0      32.6     33.0     32.9      33.1       2007     31.6     32.7     32.0     30.9     32.8     34.1     32.4     32.3     31.4     34.8     31.7       2008     32.6     33.0     32.3     30.7     33.2     33.8     32.7     32.4     34.3     32.0       2010     31.4     32.2     31.0     31.0     32.4     32.5     31.7     31.5     34.1     30.8       In-Shell Length     1999     36.9     40.4     42.6     38.2     39.6      38.1     38.5     37.3      37.3       (mm)     2000     35.8     39.4     43.0     37.4     38.2     37.6     36.9      37.4       2001     35.2     38.7     41.6     38.4     38.9      37.0     36.4     37.2     37.6      38.0       2004     36.4     39.6														32.6
2007     31.6     32.7     32.0     30.9     32.8     34.1     32.4     32.3     31.4     34.8     31.7       2008     32.0     32.9     31.6     31.5     33.4     34.1     32.2     31.9     32.5     34.5     32.2       2010     31.4     32.2     31.0     31.0     32.4     32.5     31.7     31.0     31.5     34.1     30.8       2010     31.4     32.2     31.0     31.0     32.4     32.5     31.7     31.0     31.5     34.1     30.8       (mm)     2000     35.8     39.4     43.0     37.4     38.2      38.1     38.5     37.3      37.4       2001     35.7     39.7     41.4     37.0     38.7      38.2     37.5     36.8      37.4       2004     36.4     39.6     41.3     39.3     39.7      37.0     36.0      38.0       2004     37.4														34.0
2008     32.0     32.9     31.6     31.5     33.4     34.1     32.2     31.9     32.5     34.5     32.2       2009     32.6     33.0     32.3     30.7     33.2     33.8     32.7     32.7     32.4     34.3     32.0       2010     31.4     32.2     31.0     31.0     32.4     32.5     31.7     31.0     31.5     34.1     30.8       In-Shell Length (mm)     199     36.9     40.4     42.6     38.2     39.6      38.1     38.5     37.3      37.3       2001     35.2     38.7     41.6     38.4     38.9      37.0     36.4     37.6     36.8      37.6       2002     36.1     39.7     41.7     40.9     40.4      36.5     36.0      37.6     37.6      37.6     37.6      37.4     37.6      37.4     37.6     37.6      38.0     37.6														31.9
2009     32.6     33.0     32.3     30.7     33.2     33.8     32.7     32.4     34.3     32.0       In-Shell Length (mm)     1999     36.9     40.4     42.6     38.2     39.6      38.1     38.5     37.3      38.1     38.5     37.3      38.7       (mm)     2001     35.8     39.4     43.0     37.4     38.2      38.1     38.5     37.3      37.3       2001     35.2     38.7     41.6     38.4     38.9      37.0     36.4     37.2      37.4       2002     36.1     39.7     41.7     40.9     40.4      36.5     36.0      37.4       2003     35.7     38.7     41.6     40.3     39.8      37.0     36.6      38.0       2004     36.4     39.6     41.3     39.3     39.7      37.0     37.6      38.0														32.1
2010     31.4     32.2     31.0     31.0     32.4     32.5     31.7     31.0     31.5     34.1     30.8       In-Shell Length (mm)     1999     36.9     40.4     42.6     38.2     39.6      38.1     38.5     37.3      38.7       2000     35.8     39.4     43.0     37.4     38.2      38.2     37.6     36.9      37.4       2001     35.2     38.7     41.6     38.4     38.9      38.2     37.5     36.8      37.4       2002     36.1     39.7     41.7     40.9     40.4      36.5     36.0     37.6      38.0       2004     36.4     39.6     41.3     39.3     39.7      37.0     36.0      38.0       2005     36.3     38.4     41.6     40.3     39.8      37.0     36.0      38.0       2006     37.4     39.5 <td></td> <td>32.1</td>														32.1
In-Shell Length (mm)     1999     36.9     40.4     42.6     38.2     39.6      38.1     38.5     37.3      38.7       2000     35.8     39.4     43.0     37.4     38.2      38.2     37.6     36.9      37.3       2001     35.2     38.7     41.6     38.4     38.9      38.2     37.6     36.9      37.3       2002     36.1     39.7     41.4     37.0     38.7      38.2     37.5     36.8      37.4       2002     36.1     39.7     41.7     40.9     40.4      36.5     36.0     37.6      38.0       2004     36.4     39.6     41.3     39.3     39.7      37.0     36.0      38.0       2005     36.3     38.4     41.6     40.3     39.8      37.4     37.3     36.4     36.7     38.9     36.8       2006														
(mm)   2000   35.8   39.4   43.0   37.4   38.2    38.2   37.6   36.9    37.3     2001   35.2   38.7   41.6   38.4   38.9    37.0   36.4   37.2    37.4     2002   36.1   39.7   41.4   37.0   38.7    38.2   37.5   36.4   37.2    37.4     2003   35.7   39.7   41.7   40.9   40.4    36.5   36.0   36.6    37.4     2004   36.4   39.6   41.3   39.3   39.7    37.0   36.1    38.0     2005   36.3   38.4   41.6   40.3   39.8    37.3   36.4    38.0     2006   37.4   39.5   44.2   38.5   40.4    38.1   39.2   37.8    39.3     2007   35.7   38.1   43.3   36.8   37.9   37.4   37.6   37.7   38.9   38.4	la Ohall Lanath													30.8
2001     35.2     38.7     41.6     38.4     38.9      37.0     36.4     37.2      37.4       2002     36.1     39.7     41.4     37.0     38.7      38.2     37.5     36.8      37.6       2003     35.7     39.7     41.7     40.9     40.4      36.5     36.0     37.6      38.0       2004     36.4     39.6     41.3     39.3     39.7      37.0     36.0      38.0       2005     36.3     38.4     41.6     40.3     39.8      37.2     37.0     36.0      38.0       2006     37.4     39.5     44.2     38.5     40.4      38.1     39.2     37.8      37.3     36.4     36.7     38.9     36.8       2007     35.7     38.1     43.3     36.8     37.9     37.4     37.6     37.7     39.3     38.4       2008														39.5
2002     36.1     39.7     41.4     37.0     38.7      38.2     37.5     36.8      37.6       2003     35.7     39.7     41.7     40.9     40.4      36.5     36.0     37.6      38.0       2004     36.4     39.6     41.3     39.3     39.7      37.0     37.1     36.4      38.0       2005     36.3     38.4     41.6     40.3     39.8      37.2     37.0     36.0      38.0       2006     37.4     39.5     44.2     38.5     40.4      38.1     39.2     37.8      39.3       2007     35.7     38.1     43.3     36.8     37.9     37.4     37.6     37.7     38.9     36.8       2008     37.4     39.2     38.0     37.4     37.6     37.7     38.9     37.9       2010     36.9     38.6     41.8     39.1     39.6     36.6 <td>(mm)</td> <td></td> <td>38.3</td>	(mm)													38.3
2003     35.7     39.7     41.7     40.9     40.4      36.5     36.0     37.6      38.0       2004     36.4     39.6     41.3     39.3     39.7      37.0     37.1     36.4      37.4       2005     36.3     38.4     41.6     40.3     39.8      37.2     37.0     36.0      38.0       2006     37.4     39.5     44.2     38.5     40.4      38.1     39.2     37.8      39.3       2007     35.7     38.1     43.3     36.8     37.9     37.4     37.3     36.4     36.7     38.9     36.8       2008     37.4     39.2     43.4     39.3     40.9     38.0     37.4     37.6     37.7     38.9     36.8       2009     38.0     39.4     37.6     37.7     38.9     37.9     37.4     36.7     37.4     36.7     37.4     36.7     39.4     37.6 <td></td> <td>38.3</td>														38.3
2004     36.4     39.6     41.3     39.3     39.7      37.0     37.1     36.4      37.4       2005     36.3     38.4     41.6     40.3     39.8      37.2     37.0     36.0      38.0       2006     37.4     39.5     44.2     38.5     40.4      38.1     39.2     37.8      39.3       2007     35.7     38.1     43.3     36.8     37.9     37.4     37.3     36.4     36.7     38.9     36.8       2008     37.4     39.2     43.4     39.3     40.9     38.0     37.4     37.7     39.3     38.4       2009     38.0     39.9     43.5     38.1     40.2     38.0     38.6     37.7     39.3     38.4       2009     38.0     39.9     43.5     38.1     40.2     38.0     38.6     38.2     37.7     38.9     37.9       2010     36.9     38.6     41.8     39.1														38.5
2005     36.3     38.4     41.6     40.3     39.8      37.2     37.0     36.0      38.0       2006     37.4     39.5     44.2     38.5     40.4      38.1     39.2     37.8      39.3       2007     35.7     38.1     43.3     36.8     37.9     37.4     37.3     36.4     36.7     38.9     36.8       2008     37.4     39.2     43.4     39.3     40.9     38.0     37.4     37.7     39.3     38.4       2009     38.0     39.9     43.5     38.1     40.2     38.0     38.6     37.7     39.3     38.4       2009     38.0     39.9     43.5     38.1     40.2     38.0     38.6     38.2     37.7     38.9     37.9       2010     36.9     38.6     41.8     39.1     39.6     36.6     38.7     37.4     36.7     39.4     37.6       Percent Sound     2000     95.6     96.7														39.1
2006     37.4     39.5     44.2     38.5     40.4      38.1     39.2     37.8      39.3       2007     35.7     38.1     43.3     36.8     37.9     37.4     37.3     36.4     36.7     38.9     36.8       2008     37.4     39.2     43.4     39.3     40.9     38.0     37.4     37.6     37.7     39.3     38.4       2009     38.0     39.9     43.5     38.1     40.2     38.0     38.6     38.2     37.7     38.9     37.9       2010     36.9     38.6     41.8     39.1     39.6     36.6     38.7     37.4     36.7     39.4     37.6       Kernel Grade -     1999     96.1     98.1     97.1     98.3     98.1      95.0     98.3     96.4      98.2       Percent Sound     2000     95.6     96.7     93.1     97.8     96.4      97.3     97.7     96.4      98.2 <t< td=""><td></td><td></td><td>36.4</td><td>39.6</td><td></td><td>39.3</td><td></td><td></td><td>37.0</td><td>37.1</td><td></td><td></td><td>37.4</td><td>38.8</td></t<>			36.4	39.6		39.3			37.0	37.1			37.4	38.8
2007     35.7     38.1     43.3     36.8     37.9     37.4     37.3     36.4     36.7     38.9     36.8       2008     37.4     39.2     43.4     39.3     40.9     38.0     37.4     37.7     39.3     38.4       2009     38.0     39.9     43.5     38.1     40.2     38.0     38.6     38.2     37.7     39.3     38.4       2009     38.0     39.9     43.5     38.1     40.2     38.0     38.6     38.2     37.7     38.9     37.9       2010     36.9     38.6     41.8     39.1     39.6     36.6     38.7     37.4     36.7     39.4     37.6       Kernel Grade -     1999     96.1     98.1     97.1     98.3     98.1      95.0     98.3     96.4      98.2       Percent Sound     2000     95.6     96.7     93.1     97.8     96.4      97.3     96.3     98.0      98.7       2001<		2005		38.4		40.3	39.8		37.2	37.0	36.0		38.0	38.4
2008     37.4     39.2     43.4     39.3     40.9     38.0     37.4     37.6     37.7     39.3     38.4       2009     38.0     39.9     43.5     38.1     40.2     38.0     38.6     38.2     37.7     38.9     37.9       2010     36.9     38.6     41.8     39.1     39.6     36.6     38.7     37.4     36.7     39.4     37.6       Kernel Grade -     1999     96.1     98.1     97.1     98.3     98.1      95.0     98.3     96.4      98.2       Percent Sound     2000     95.6     96.7     93.1     97.8     96.4      97.3     97.7     96.4      98.2       2001     94.3     98.8     98.9     98.8     97.4      97.3     96.3     98.0      98.7       2002     96.4     96.8     97.2     96.1      99.2     96.1      98.7       2003     97.5 <td></td> <td>2006</td> <td>37.4</td> <td>39.5</td> <td>44.2</td> <td>38.5</td> <td>40.4</td> <td></td> <td>38.1</td> <td>39.2</td> <td></td> <td></td> <td>39.3</td> <td>38.7</td>		2006	37.4	39.5	44.2	38.5	40.4		38.1	39.2			39.3	38.7
2009     38.0     39.9     43.5     38.1     40.2     38.0     38.6     38.2     37.7     38.9     37.9       2010     36.9     38.6     41.8     39.1     39.6     36.6     38.7     37.4     36.7     39.4     37.6       Kernel Grade -     1999     96.1     98.1     97.1     98.3     98.1      95.0     98.3     96.4      98.2       Percent Sound     2000     95.6     96.7     93.1     97.8     96.4      97.3     97.7     96.4      98.2       2001     94.3     98.8     98.9     98.8     97.4      97.3     96.3     98.0      98.7       2002     96.4     96.8     98.6     97.2     96.1      99.3     98.3      98.7       2003     97.5     97.4     98.8     97.0     97.2      99.2     96.1     91.8      98.0       2		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
2010     36.9     38.6     41.8     39.1     39.6     36.6     38.7     37.4     36.7     39.4     37.6       Kernel Grade -     1999     96.1     98.1     97.1     98.3     98.1      95.0     98.3     96.4      98.2       Percent Sound     2000     95.6     96.7     93.1     97.8     96.4      97.3     97.7     96.4      98.2       2001     94.3     98.8     98.9     98.8     97.4      97.3     96.3     98.0      98.7       2002     96.4     96.8     98.6     97.2     96.1      96.3     98.3      97.0       2002     96.4     96.8     98.6     97.2     96.1      96.8     93.3     98.3      97.0       2003     97.5     97.4     98.8     97.0     97.2      99.2     96.1     91.8      98.0       2004		2008	37.4	39.2	43.4	39.3	40.9	38.0	37.4	37.6	37.7	39.3	38.4	39.7
Kernel Grade -     1999     96.1     98.1     97.1     98.3     98.1      95.0     98.3     96.4      98.2       Percent Sound     2000     95.6     96.7     93.1     97.8     96.4      97.3     97.7     96.4      98.2       2001     94.3     98.8     98.9     98.8     97.4      97.3     96.3     98.0      98.2       2002     96.4     96.8     98.6     97.2     96.1      96.8     93.3     98.3      97.0       2003     97.5     97.4     98.8     97.0     97.2      99.2     96.1     91.8      96.9       2004     97.9     99.0     98.4     95.6     98.2      99.4     98.3     99.1      98.0       2005     96.7     96.9     99.8     95.7     97.0      98.4     99.5     97.0      99.1		2009	38.0	39.9	43.5	38.1	40.2	38.0	38.6	38.2	37.7	38.9	37.9	40.1
Percent Sound     2000     95.6     96.7     93.1     97.8     96.4      97.3     97.7     96.4      98.2       2001     94.3     98.8     98.9     98.8     97.4      97.3     96.3     98.0      98.2       2002     96.4     96.8     98.6     97.2     96.1      96.8     93.3     98.3      97.0       2003     97.5     97.4     98.8     97.0     97.2      99.2     96.1     91.8      96.9       2004     97.9     99.0     98.4     95.6     98.2      99.4     98.3     99.1      98.0       2005     96.7     96.9     99.8     95.7     97.0      98.4     99.5     97.0      99.1       2006     98.4     99.2     95.1     99.6     97.7      91.8     96.0     99.1      98.2		2010										39.4		38.8
Percent Sound     2000     95.6     96.7     93.1     97.8     96.4      97.3     97.7     96.4      98.2       2001     94.3     98.8     98.9     98.8     97.4      97.3     96.3     98.0      98.2       2002     96.4     96.8     98.6     97.2     96.1      96.8     93.3     98.3      97.0       2003     97.5     97.4     98.8     97.0     97.2      99.2     96.1     91.8      96.9       2004     97.9     99.0     98.4     95.6     98.2      99.4     98.3     99.1      98.0       2005     96.7     96.9     99.8     95.7     97.0      98.4     99.5     97.0      99.1       2006     98.4     99.2     95.1     99.6     97.7      91.8     96.0     99.1      98.2	Kernel Grade -									-				97.3
200194.398.898.998.897.497.396.398.098.7200296.496.898.697.296.196.893.398.397.0200397.597.498.897.097.299.296.191.896.9200497.999.098.495.698.299.498.399.198.0200596.796.999.895.797.098.499.597.099.1200698.499.295.199.697.791.896.099.198.2														97.3
200296.496.898.697.296.196.893.398.397.0200397.597.498.897.097.299.296.191.896.9200497.999.098.495.698.299.498.399.198.0200596.796.999.895.797.098.499.597.099.1200698.499.295.199.697.791.896.099.198.2														97.5
200397.597.498.897.097.299.296.191.896.9200497.999.098.495.698.299.498.399.198.0200596.796.999.895.797.098.499.597.099.1200698.499.295.199.697.791.896.099.198.2														96.8
2004     97.9     99.0     98.4     95.6     98.2      99.4     98.3     99.1      98.0       2005     96.7     96.9     99.8     95.7     97.0      98.4     99.5     97.0      99.1      99.1       2006     98.4     99.2     95.1     99.6     97.7      91.8     96.0     99.1      98.2														90.0 95.1
2005     96.7     96.9     99.8     95.7     97.0      98.4     99.5     97.0      99.1       2006     98.4     99.2     95.1     99.6     97.7      91.8     96.0     99.1      98.2														95.1
2006 98.4 99.2 95.1 99.6 97.7 91.8 96.0 99.1 98.2														
														97.9
I IZUUZI 965 994 995 960 985 985 985 985 985 985 985 985 985 985														97.7
			96.5	99.4	99.5	96.0	98.5	98.5	99.3	98.5		99.0	97.7	95.9
2008     93.5     98.7     91.7     97.6     99.2     99.0     94.5     96.5     98.1     99.1														93.5
2009 96.9 98.6 99.2 98.3 97.3 98.1 99.2 98.8 99.7 96.3 97.7														91.0
<u>2010</u> <u>98.4</u> <u>98.5</u> <u>99.9</u> <u>98.4</u> <u>98.2</u> <u>96.7</u> <u>96.1</u> <u>96.3</u> <u>95.1</u> <u>97.3</u> <u>95.2</u>														98.3
Nuts Set Per Tree     1999     1,073     1,540     1,369     2,818     2,241      1,076     989     1,210      1,374	Nuts Set Per Tree													1,536
2000 1,633 1,212 1,325 1,899 1,878 1,696 886 1,167 1,566		2000			1,325		1,878		1,696	886				1,379
2001 1,510 1,741 1,718 1,819 2,049 1,443 1,342 1,560 1,488		2001	1,510	1,741	1,718	1,819	2,049		1,443	1,342	1,560		1,488	1,533
2002 1,534 1,315 1,246 2,072 1,961 1,246 1,259 1,446 1,611														1,642
2003 1,421 1,594 1,858 1,195 1,735 1,995 1,679 1,021 1,544														1,377
2004 1,504 1,381 1,223 2,108 2,046 1,152 1,172 1,488 1,471														1,167
2005 1,323 1,783 1,639 1,267 1,729 1,443 1,429 1,067 1,251														1,256
2006 1,129 1,386 1,687 2,004 1,883 1,345 1,172 462 1,266														1,319
														1,640
2008     1,688     1,425     2,271     1,343     1,498     1,156     1,395     1,371     1,127     1,438     1,235       2008     1,688     1,425     2,271     1,343     1,498     1,156     1,395     1,371     1,127     1,438     1,235														1,712
2009 1,691 1,346 1,512 2,220 2,001 1,419 1,306 1,066 1,893 1,281 1,755											1,893			1,074
2010 2,630 1,683 1,165 1,891 2,076 1,609 1,294 1,647 1,383 1,000 1,407		2010						1,609 ished separa		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
· · · · · · · · · · · · · · · · · · ·						_,			

	U.S. Standards Size Intervals 1/																													
District and Variety					2007 2/ Mth Jmb Lge Med Bby Oth N							2008						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
							1							Perc	cent o	of To	tal 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

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