

Parameter→ Sample No.↓	Mass (gm)of intact nut	Length (cm) of intact nut	Width (cm) of intact nut	Thickness of shell (mm)	Mass of kernel (gm) percent of nut	Length of kernel (in)--measured
1	10.26	4.72	2.41			
2	8.78	4.47	2.24			
3	9.10	4.52	2.36			
4	9.69	4.34	2.36			
5	9.27	4.65	2.08	0.940	5.19	1.34
6	10.82	4.60	0.23	% kernel =	55.99	
7	8.28	3.96	2.21			
8	11.48	4.70	2.49			
9	10.28	4.85	2.44			
10	9.65	4.78	2.34	1.143	5.61	1.48
11	8.46	4.42	2.13	% kernel =	58.13	
12	9.56	4.67	2.39			
13	11.10	4.85	2.34			
14	11.03	4.90	2.39			
15	9.17	4.90	2.29	0.813	5.19	1.43
16	8.96	4.24	2.44	% kernel =	56.60	
17	8.45	3.63	2.26			
18	6.25	3.73	2.06			
19	9.08	4.72	2.36			
20	8.34	4.14	2.24	0.737	4.89	1.30
21	10.28	4.52	2.08	% kernel =	58.63	
22	9.03	4.78	2.18			
23	9.25	4.65	2.18			
24	7.73	4.57	2.36			
25	9.40	4.52	2.31	0.762	5.42	1.41
26	8.07	4.52	2.21	% kernel =	57.66	
27	8.88	4.34	2.34			
28	10.04	4.72	2.36			
29	6.10	3.76	2.03			
30	9.94	4.62	2.39	0.787	5.78	1.41
31	7.81	3.99	2.01	% kernel =	58.15	
32	10.43	4.55	2.49			
33	8.49	4.32	2.18			
34	11.53	4.62	2.44			
35	8.90	4.32	2.24	0.864	5.37	1.32
36	9.69	4.45	2.36	% kernel =	60.34	
37	8.34	4.14	2.29			
38	9.03	4.45	2.13			
39	6.16	3.96	2.06			
40	10.14	4.65	2.39	1.067	5.56	1.44
41	11.53	4.50	2.51	% kernel =	54.83	
42	10.09	4.34	2.36			

43	7.31	4.24	2.24			
44	9.79	4.50	2.26			
45	10.38	4.75	2.21	1.245	6.32	
46	9.55	5.05	2.36	% kernel =	60.89	
47	9.98	4.80	2.36			
48	9.11	4.70	2.24			
49	8.65	4.70	2.29			
50	10.35	4.24	2.46	0.813	6.10	
51	7.16	3.89	2.11	% kernel =	58.94	
average =	9.24	4.47	2.24	0.92	58.02	1.39
st dev =	1.29				1.86	

49.3 nuts/lb

58 % kernel

±SE= 48.4-50.3

±SE=57.4-58.6

As a check on above nuts/lb and % kernel, I weighed 6 nuts = 58.94 gm, and kernel s weighed 33.91. These values indicate 46.4 nuts/lb and 58 % kernel. The percent kernel was excellent, but decided to weigh another 10 nuts = 79.17 (= 57.6 nuts/lb) and again another 10 nuts = 86.48 gm (52.7).

The weighed average of all these determinations = 50.6 nuts/lb.

Length of kernel (cm)	Width of kernel (in) --measured	Groove depth (in)--measured	Groove width (in)--measured at top of groove
	0.67	0.094	0.110
	0.77	0.100	0.091
	0.74	0.110	0.046
	0.74	0.123	0.045
	0.77	0.199	0.055
	0.76	0.134	0.085
	0.73	0.139	0.074
	0.77	0.155	0.065

	0.78	0.159	0.066

0.75

0.13

0.07