

WHITE PEPPER					Copyright John S. Michael, 2014					
NOT SHAKEN					Sq root	%				% Mean
1685	861	824	-28.4	806.56			Range	10.6	1.2	
1698	861	837	-15.4	237.16						
1709	861	848	-4.4	19.36			Q1 Point	2.5		
1715	861	854	1.6	2.56			Q1	848		
1716	861	855	2.6	6.76			Q3 Point	7.5		
1717	861	856	3.6	12.96			Q3	863	Co. Var	
1722	861	861	8.6	73.96			IQRRange	15	1.8	
1724	861	863	10.6	112.36						
1724	861	863	10.6	112.36						
1724	861	863	10.6	112.36						
		<b>852</b>		149.64	12.23274	1.4				
SHAKEN ONLY										
1721	861	860	-23.5	552.25			Range	41	4.6	
1736	861	875	-8.5	72.25						
1736	861	875	-8.5	72.25			Q1 Point	2.5		
1741	861	880	-3.5	12.25			Q1	875		
1747	861	886	2.5	6.25			Q3 Point	7.5		
1748	861	887	3.5	12.25			Q3	891	Co. Var	
1748	861	887	3.5	12.25			IQRRange	16	1.8	
1752	861	891	7.5	56.25						
1754	861	893	9.5	90.25						
1762	861	901	17.5	306.25						
		<b>884</b>		119.25	10.92016	1.2				
COMPACTED							Range	17	1.8	
1775	861	914	-7.2	51.84						
1775	861	914	-7.2	51.84			Q1 Point	2.5		
1779	861	918	-3.2	10.24			Q1	918		
1780	861	919	-2.2	4.84			Q3 Point	7.5		
1781	861	920	-1.2	1.44			Q3	924	Co. Var	
1783	861	922	0.8	0.64			IQRRange	6	0.6	

1785	861	924	2.8	7.84					
1785	861	924	2.8	7.84					
1787	861	926	4.8	23.04					
1792	861	931	9.8	96.04					
		<b>921</b>		25.56	5.05569	0.5			

YELLOW MUSTARD					Copyright John S. Michael, 2014				
NOT SHAKEN					Sq root	%			% Mean
1813	861	952	-18.4	338.56			Range	11.6	1.2
1825	861	964	-6.4	40.96					
1826	861	965	-5.4	29.16			Q1 Point	2.5	
1828	861	967	-3.4	11.56			Q1	965	
1830	861	969	-1.4	1.96			Q3 Point	7.5	
1833	861	972	1.6	2.56			Q3	978	Co. Var
1836	861	975	4.6	21.16			IQRRange	13	1.3
1839	861	978	7.6	57.76					
1841	861	980	9.6	92.16					
1843	861	982	11.6	134.56					
		<b>970</b>		73.04	8.546344	0.9			
SHAKEN ONLY									
1844	861	983	-12.2	148.84			Range	22	2.2
1848	861	987	-8.2	67.24					
1850	861	989	-6.2	38.44			Q1 Point	2.5	
1851	861	990	-5.2	27.04			Q1	989	
1857	861	996	0.8	0.64			Q3 Point	7.5	
1858	861	997	1.8	3.24			Q3	1003	Co. Var
1860	861	999	3.8	14.44			IQRRange	14	1.4
1864	861	1003	7.8	60.84					
1864	861	1003	7.8	60.84					
1866	861	1005	9.8	96.04					
		<b>995</b>		51.76	7.194442	0.7			
COMPACTED									
1878	861	1017	-11.1	123.21			Range	20	1.9
1884	861	1023	-5.1	26.01			Q1 Point	2.5	
1886	861	1025	-3.1	9.61			Q1	1025	
1887	861	1026	-2.1	4.41			Q3 Point	7.5	
1888	861	1027	-1.1	1.21			Q3	1033	Co. Var
1888	861	1027	-1.1	1.21			IQRRange	8	0.8

1893	861	1032	3.9	15.21					
1894	861	1033	4.9	24.01					
1895	861	1034	5.9	34.81					
1898	861	1037	8.9	79.21					
		<b>1028</b>		31.89	5.647123	0.5			

MILLET SEED					Copyright John S. Michael, 2014				
NOT SHAKEN					Sq root	%			% Mean
1918	861	1057	-10.6	112.36			Range	8.4	0.8
1919	861	1058	-9.6	92.16					
1925	861	1064	-3.6	12.96			Q1 Point	2.5	
1925	861	1064	-3.6	12.96			Q1	1064	
1927	861	1066	-1.6	2.56			Q3 Point	7.5	
1932	861	1071	3.4	11.56			Q3	1074	Co. Var
1933	861	1072	4.4	19.36			IQRRange	10	0.9
1935	861	1074	6.4	40.96					
1935	861	1074	6.4	40.96					
1937	861	1076	8.4	70.56					
		<b>1068</b>		41.64	6.452906	0.6			
SHAKEN ONLY									
1961	861	1100	-27.3	745.29			Range	39	3.5
1974	861	1113	-14.3	204.49					
1975	861	1114	-13.3	176.89			Q1 Point	2.5	
1990	861	1129	1.7	2.89			Q1	1114	
1992	861	1131	3.7	13.69			Q3 Point	7.5	
1995	861	1134	6.7	44.89			Q3	1139	Co. Var
1996	861	1135	7.7	59.29			IQRRange	25	2.2
2000	861	1139	11.7	136.89					
2000	861	1139	11.7	136.89					
2000	861	1139	11.7	136.89					
		<b>1127</b>		165.81	12.87672	1.1			
COMPACTED									
							Range	27	2.3
2017	861	1156	-11.7	136.89					
2019	861	1158	-9.7	94.09			Q1 Point	2.5	
2023	861	1162	-5.7	32.49			Q1	1162	
2025	861	1164	-3.7	13.69			Q3 Point	7.5	
2027	861	1166	-1.7	2.89			Q3	1175	Co. Var
2029	861	1168	0.3	0.09			IQRRange	13	1.1

2029	861	1168	0.3	0.09					
2036	861	1175	7.3	53.29					
2038	861	1177	9.3	86.49					
2044	861	1183	15.3	234.09					
		<b>1168</b>		65.41	8.087645	0.7			

WHITE RICE					Copyright John S. Michael, 2014				
NOT SHAKEN					Sq root	%			% Mean
1826	860	966	-35.9	1288.81			Range	35.1	3.5
1843	860	983	-18.9	357.21					
1849	860	989	-12.9	166.41			Q1 Point	2.5	
1854	860	994	-7.9	62.41			Q1	989	
1859	860	999	-2.9	8.41			Q3 Point	7.5	
1862	860	1002	0.1	0.01			Q3	1017	Co. Var
1868	860	1008	6.1	37.21			IQRRange	28	2.8
1877	860	1017	15.1	228.01					
1884	860	1024	22.1	488.41					
1897	860	1037	35.1	1232.01					
		<b>1002</b>		386.89	19.66952	2.0			
SHAKEN ONLY									
1943	860	1083	-22.9	524.41			Range	56	5.1
1949	860	1089	-16.9	285.61					
1955	860	1095	-10.9	118.81			Q1 Point	2.5	
1958	860	1098	-7.9	62.41			Q1	1095	
1958	860	1098	-7.9	62.41			Q3 Point	7.5	
1969	860	1109	3.1	9.61			Q3	1117	Co. Var
1972	860	1112	6.1	37.21			IQRRange	22	2.0
1977	860	1117	11.1	123.21					
1979	860	1119	13.1	171.61					
1999	860	1139	33.1	1095.61					
		<b>1106</b>		249.09	15.78259	1.4			
COMPACTED									
							Range	29	2.5
2003	860	1143	-12.1	146.41					
2006	860	1146	-9.1	82.81			Q1 Point	2.5	
2009	860	1149	-6.1	37.21			Q1	1149	
2010	860	1150	-5.1	26.01			Q3 Point	7.5	
2011	860	1151	-4.1	16.81			Q3	1161	Co. Var
2017	860	1157	1.9	3.61			IQRRange	12	1.0

2018	860	1158	2.9	8.41					
2021	860	1161	5.9	34.81					
2024	860	1164	8.9	79.21					
2032	860	1172	16.9	285.61					
		<b>1155</b>		72.09	8.490583	0.7			



LEAD SHOT					Copyright John S. Michael, 2014				
NOT SHAKEN					Sq root	%			% Mean
8065	0	8065	-295.1	87,084.01			Range	195.9	2.3
8089	0	8089	-271.1	73,495.21					
8233	0	8233	-127.1	16,154.41			Q1 Point	2.5	
8330	0	8330	-30.1	906.01			Q1	8233	
8406	0	8406	45.9	2,106.81			Q3 Point	7.5	
8425	0	8425	64.9	4,212.01			Q3	8501	Co. Var
8466	0	8466	105.9	11,214.81			IQRRange	268	3.2
8501	0	8501	140.9	19,852.81					
8530	0	8530	169.9	28,866.01					
8556	0	8556	195.9	38,376.81					
		<b>8360</b>		28,226.89	168.01	2.0			
SHAKEN ONLY									
8897	0	8897	-72.6	5,270.76			Range	140	1.6
8918	0	8918	-51.6	2,662.56					
8920	0	8920	-49.6	2,460.16			Q1 Point	2.5	
8937	0	8937	-32.6	1,062.76			Q1	8920	
8969	0	8969	-0.6	0.36			Q3 Point	7.5	
8971	0	8971	1.4	1.96			Q3	9022	Co. Var
8991	0	8991	21.4	457.96			IQRRange	102	1.1
9022	0	9022	52.4	2,745.76					
9034	0	9034	64.4	4,147.36					
9037	0	9037	67.4	4,542.76					
		<b>8970</b>		2,335.24	48.32	0.5			
COMPACTED									
							Range	230	2.5
9089	0	9089	-100.3	10,060.09					
9102	0	9102	-87.3	7,621.29			Q1 Point	2.5	
9116	0	9116	-73.3	5,372.89			Q1	9116	
9158	0	9158	-31.3	979.69			Q3 Point	7.5	
9187	0	9187	-2.3	5.29			Q3	9220	Co. Var
9201	0	9201	11.7	136.89			IQRRange	104	1.1

9212	0	9212	22.7	515.29					
9220	0	9220	30.7	942.49					
9289	0	9289	99.7	9,940.09					
9319	0	9319	129.7	16,822.09					
		<b>9189</b>		5,239.61	72.39	0.8			

LEAD SHOT SUBTOTALS			Copyright John S. Michael, 2014						
	Loose			Shake			Pack		
<b>1</b>	2631	2494	<b>1</b>	2655	2518	<b>1</b>	2121	1984	
	2269	2132		2736	2599		2646	2509	
	2300	2163		2371	2234		2495	2358	
	1437	1300		1820	1683		2605	2468	
		8089			9034			9319	
<b>2</b>	2600	2463	<b>2</b>	2526	2389	<b>2</b>	3195	3058	
	2024	1887		2470	2333		2981	2844	
	1864	1727		2254	2117		2103	1966	
	2466	2329		2216	2079		1558	1421	
		8406			8918			9289	
<b>3</b>	2392	2255	<b>3</b>	2395	2258	<b>3</b>	3014	2877	
	2044	1907		2833	2696		2526	2389	
	2316	2179		2506	2369		2487	2350	
	2297	2160		1711	1574		1637	1500	
		8501			8897			9116	
<b>4</b>	2796	2659	<b>4</b>	3149	3012	<b>4</b>	2729	2592	
	2251	2114		2560	2423		2459	2322	
	2196	2059		2104	1967		2411	2274	
	1730	1593		1672	1535		2051	1914	
		8425			8937			9102	
<b>5</b>	2096	1959	<b>5</b>	2628	2491	<b>5</b>	2595	2458	
	2213	2076		2638	2501		2257	2120	
	2270	2133		2404	2267		2381	2244	
	2525	2388		1847	1710		2527	2390	
		8556			8969			9212	
<b>6</b>	2206	2069	<b>6</b>	2886	2749	<b>6</b>	2824	2687	
	2211	2074		3365	3228		2946	2809	
	2254	2117		1924	1787		2235	2098	

	2407	2270			1293	1156			1730	1593
		8530				8920				9187
<b>7</b>	2496	2359		<b>7</b>	2991	2854		<b>7</b>	2942	2805
	2074	1937			2699	2562			3127	2990
	2132	1995			2070	1933			2788	2651
	2312	2175			1810	1673			892	755
		8466				9022				9201
<b>8</b>	2267	2130		<b>8</b>	3291	3154		<b>8</b>	3194	3057
	2335	2198			2725	2588			2621	2484
	1941	1804			2447	2310			2253	2116
	2070	1933			1076	939			1569	1432
		8065				8991				9089
<b>9</b>	2483	2346		<b>9</b>	2744	2607		<b>9</b>	2623	2486
	2437	2300			2333	2196			2857	2720
	1976	1839			2415	2278			2519	2382
	1982	1845			2027	1890			1769	1632
		8330				8971				9220
<b>10</b>	2504	2367		<b>10</b>	2204	2067		<b>10</b>	2596	2459
	2351	2214			3292	3155			2646	2509
	2103	1966			2093	1956			2503	2366
	1823	1686			1996	1859			1961	1824
		8233				9037				9158

LEAD SHOT CC SUBTOTALS			Copyright John S. Michael, 2014			
	weight	minus cup				
<b>1</b>	3331	3194				
	3637	3500				
		6694				
<b>2</b>	3410	3273				
	3467	3330				
		6603				
<b>3</b>	3329	3192				
	3610	3473				
		6665				
<b>4</b>	3470	3333				
	3530	3393				
		6726				
<b>5</b>	3537	3400				
	3464	3327				
		6727				
<b>6</b>	3591	3454				
	3411	3274				
		6728				
<b>7</b>	3359	3222				
	3619	3482				
		6704				
<b>8</b>	3321	3184				
	3678	3541				
		6725				

<b>9</b>	3293	3156					
	3676	3539					
		6695					
<b>10</b>	3560	3423					
	3413	3276					
		6699					

VOLUME FOR ALL MATERIALS						Copyright John S. Michael, 2014					
White Pepper			Yellow Mustard			Millet Seed			Lead Shot		
894	209	685	970	209	761	1030	209	821	6694	0	6694
875	209	666	963	209	754	1046	209	837	6603	0	6603
887	209	678	963	209	754	1045	209	836	6665	0	6665
890	209	681	962	209	753	1017	209	808	6726	0	6726
888	209	679	962	209	753	1061	209	852	6727	0	6727
895	209	686	958	209	749	1031	209	822	6728	0	6728
889	209	680	948	209	739	1039	209	830	6704	0	6704
895	209	686	951	209	742	1025	209	816	6725	0	6725
889	209	680	954	209	745	1021	209	812	6695	0	6695
889	209	680	946	209	737	1048	209	839	6699	0	6699
		680.1			748.7			827.3			6696.6
	Con. Fac.	1.470372			1.335648			1.208751			0.14933
<b>Ave Skull</b>	g	cc	<b>Ave Skull</b>	g	cc	<b>Ave Skull</b>	g	cc	<b>Ave Skull</b>	g	cc
Shift	852	1253	Shift	970	1296	Shift	1068	1291	Shift	8360	1248
Tap	884	1300	Tap	995	1329	Tap	1172	1417	Tap	8970	1339
Push	921	1354	Push	1028	1373	Push	1168	1412	Push	9189	1372
<b>NOT SHAKEN to SHAKEN ONLY</b>											
	Diff cc	47		Diff cc	33		Diff cc	126		Diff cc	91
	Diff cu in	3		Diff cu in	2		Diff cu in	8		Diff cu in	6
<b>SHAKEN ONLY to COMPACTED</b>											
	Diff cc	54		Diff cc	44		Diff cc	-5		Diff cc	33
	Diff cu in	3		Diff cu in	3		Diff cu in	0		Diff cu in	2
<b>NOT SHAKEN TO COMPACTED</b>											
	Diff cc	101		Diff cc	77		Diff cc	126		Diff cc	91
	Diff cu in	6		Diff cu in	5		Diff cu in	8		Diff cu in	6
Flask Vol	cc	1320		cc	1330		cc	1340		cc	1310
	cu in	81		cu in	81		cu in	82		cu in	80

White Rice		
1024	209	815
1036	209	827
1031	209	822
1030	209	821
1025	209	816
1027	209	818
1027	209	818
1026	209	817
1031	209	822
1033	209	824
		820
		1.219512
<b>Ave Skull</b>	g	cc
Shift	1002	1222
Tap	1106	1349
Push	1155	1409
	Diff cc	127
	Diff cu in	8
	Diff cc	60
	Diff cu in	4
	Diff cc	127
	Diff cu in	8
cc	1340	
cu in	82	