Spearman correlation [per accession]

	Shell Integrity	Shell Texture	Shell Color	Shell Seal	Shell Strength	Shell Thickness	Packing Tissue	Kernel Fill	Tip Shrivel	Minor Shrivel	Major Shrivel	Plumpness	Ease Of Removal	Kernel Weight Ratio	Blank
Nut Length	-10	17	34	-10	11	16	5	-19	40	2	10	6	-5	-15	15
Nut Height	-12	18	11	-4	-2	8	-2	-15	11	8	3	5	-4	1	2
Nut Width	-20	23	19	-5	-3	9	0	-17	21	3	1	12	-5	0	8
Nut Volume	-18	16	20	-10	0	10	0	-18	27	3	1	9	-8	-2	8
Nut VA3D	-11	71	36	6	5	13	0	-26	14	0	14	6	-2	-22	15
Nut Feret Ratio	-1	3	26	-9	14	14	1	-8	35	-1	10	-2	-3	-20	18
Nut Surface Area	-17	27	25	-8	0	11	-1	-21	27	2	5	9	-8	-5	10
Nut Sphericity	8	-72	-37	-7	-6	-13	0	26	-14	-1	-14	-5	1	24	-15
Nut Convex Surface Area	-16	21	24	-10	0	10	0	-20	28	3	3	8	-8	-4	9
Nut Convex Volume	-17	20	23	-9	0	10	0	-19	27	3	3	9	-8	-3	8
Nut Ratio Convex Area	12	-66	-22	-7	0	-11	1	24	-3	4	-11	-9	-1	18	-11
Nut Ratio Convex Volume	0	-78	-43	-10	-7	-11	-1	24	-12	-6	-10	-4	1	23	-10
Krumbein Index	2	-2	-28	8	-13	-14	-3	8	-35	1	-9	0	3	20	-18
Sneed Index	-1	-3	-21	9	-15	-12	2	7	-31	-1	-11	4	2	19	-14
Air Volume	-21	19	8	-21	-31	-22	-13	-45	22	4	1	-10	-27	19	0
Kernel Volume	-15	5	23	-10	6	14	-2	10	22	0	-1	26	-1	7	14
Shell Volume	4	24	30	16	52	63	28	5	16	-5	5	6	25	-60	12
Packing Volume	-14	10	21	8	21	23	13	3	27	6	-3	14	12	-10	10
Air Vol Ratio	-18	11	-12	-29	-60	-54	-20	-63	7	5	4	-28	-40	38	-8
Kernel Vol Ratio	4	-23	2	5	16	8	-3	60	-9	-8	-10	39	13	16	5
Shell Vol Ratio	25	11	18	34	73	77	33	32	-8	-7	6	2	43	-82	9
Packing Vol Ratio	2	-12	0	36	39	23	17	35	2	5	-3	15	33	-13	-2
Shell Rugosity	-9	72	36	7	5	13	0	-26	14	1	14	5	-1	-23	15
Shell Thickness	19	12	21	29	71	81	35	29	1	-8	3	4	40	-81	11
Protruding Shell Ratio	7	10	6	20	27	28	24	1	2	1	7	-8	30	-35	6
Protruding Shell Volume	8	21	23	22	48	54	31	4	12	-2	10	0	35	-58	14
Kernel Length	-11	10	31	-8	8	10	3	-5	32	2	3	14	-5	-3	17
Kernel Height	-12	9	11	-9	-4	4	-4	-3	11	3	15	-2	0	10	1
Kernel Width	-22	12	13	-18	-14	-3	-8	-7	14	-2	-5	16	-8	20	6
Kernel Surface Area	-19	8	26	-9	4	10	-2	8	26	1	1	32	1	9	11
Kernel Convex Volume	-19	9	21	-13	-3	5	-4	-5	23	1	0	19	-6	9	9
Kernel Convex Area	-18	10	22	-14	-3	5	-4	-6	23	1	0	18	-7	9	10
Kernel Ratio Convex Area	6	6	-19	-9	-22	-21	-2	-48	-15	2	5	-56	-24	-4	-4
Kernel Ratio Convex Volume	13	-17	5	13	34	31	3	54	-7	-4	-3	25	16	-15	10
Kernel Cavity Area	-23	1	19	-18	-8	-2	3	-7	18	1	0	11	-7	12	11
Kernel Cavity Volume	-19	0	17	-17	-9	-2	1	-7	6	-1	1	9	-8	14	11
Kernel Arc Height	-1	12	24	15	25	22	11	4	31	1	-1	8	13	-16	9
Kernel Cavity Height	-8	0	29	-20	-1	3	2	-2	20	0	1	11	-8	4	15
Kernel Sphericity	17	-11	-16	-3	5	8	-1	4	-23	0	-1	-27	-5	-12	2
Kernel Ratio Cavity Area	-11	-9	3	-22	-19	-18	4	-26	-7	4	5	-26	-19	8	3
Kernel Ratio Cavity Volume	-10	-14	2	-14	-11	-9	4	-9	-18	2	7	-13	-9	4	5
Density Kernel vs Shell	-17	-7	-24	-16	-58	-66	-21	-31	5	9	-4	-13	-33	65	-8
Density Packing vs Shell	1	-5	1	-13	-26	-31	14	-11	4	-5	11	-8	-1	21	4
Density Packing vs Kernel	22	6	23	-3	19	18	31	10	3	-14	16	0	26	-30	4
Kernel Feret Ratio	7	0	19	2	31	16	7	-1	21	6	7	-10	-2	-26	16
Nut Airless Vol	-10	13	25	3	25	32	12	7	23	1	1	20	10	-17	15
Kernel Airless Vol Ratio	-14	-21	-12	-35	-56	-58	-30	7	-3	2	-8	18	-33	78	-6
Packing Airless Vol Ratio	-8	-4	-8	18	-1	-15	2	-11	15	14	3	-5	4	13	-5
Shell Airless Vol Ratio	21	23	16	24	59	69	30	1	-1	-7	10	-15	31	-88	9