Spearman coefficients of correlation [per tree]

	Nut Length	Nut Height	Nut Width	Nut Volume	Nut VA3D	Nut Feret Ratio	Nut Surface Area	Nut Sphericity	Nut Convex Surface Area	Nut Convex Volume	Nut Ratio Convex Area	Nut Ratio Convex Volume	Krumbein Index	Sneed Index	Air Volume	Kernel Volume	Shell Volume	Packing Volume	Air Vol Ratio	Kernel Vol Ratio	Shell Vol Ratio	Packing Vol Ratio	Shell Rugosity	Shell Thickness	Protruding Shell Ratio	Protruding Shell Volume	Kernel Length	Kernel Height	Kernel Width	Kernel Surface Area	Kernel Convex Volume	Kernel Convex Area	Kernel Ratio Convex Area	Kernel Ratio Convex Volume	Kernel Cavity Area	Kernel Cavity Volume	Kernel Arc Height	Kernel Cavity Height	Kernel Sphericity	Kernel Ratio Cavity Area	Kernel Ratio Cavity Volume	Density Kernel vs Shell	Density Packing vs Shell	Density Packing vs Kernel	Kernel Feret Ratio	Nut Vol wo Air	Kernel Vol Ratio wo Air	Packing Vol Ratio wo Air	Shell Vol Ratio wo Air
Shell Integrity	-12	-7	-17	-15	-9	-5	-14	7	-13	-14	10	-4	6	2	-16	-15	4	-12	-2	21	1	-8	16	3	6	-14	-9	-20	-19	-17	-17	11	8	-22	-18	-2	-12	17	-11	-10	-15	-5	14	2	-10	-16	-5	20	
Shell Texture	17	19	25	17	71	0	28	-72	22	21	-65	-78	0	1	19	5	24	10	11	-24	12	-11	72	12	10	22	9	9	13	8	10	11	9	-18	1	0	14	1	-9	-9	-13	-6	-4	6	-3	13	-22	-5	23
Shell Color	33	10	18	19	34	25	23	-35	22	21	-22	-39	-27	-19	6	22	28	20	-13	4	18	2	35	21	10	24	32	10	12	25	20	21	-19	6	21	19	21	28	-14	7	8	-22	5	26	19	24	-11	-8	15
Shell Seal	-8	0	0	-5	10	-10	-3	-10	-5	-5	-12	-12	9	10	-17	-7	18	10	-27	3	32	32	10	28	15	20	-6	-7	-13	-6	-10	-10	-7	12	-16	-15	14	-16	-3	-21	-15	-15	-12	-2	-2	5	-34	16	24
Shell Strength	15	-3	-1	0	9	17	1	-10	1	-1	-3	-10	-17	-17	-31	6	54	21	-60	14	74	39	10	72	30	51	9	-6	-12	4	-2	-2	-20	31	-5	-5	25	2	3	-13	-6	-55	-22	21	20	26	-57	-3	60
Shell Thickness	21	8	11	11	17	16	13	-18	12	12	-15	-13	-17	-17	-20	13	66	23	-53	4	78	22	17	82	30	57	12	3	-1	10	6	6	-16	28	1	2	23	5	-12	-3	19	-65	-28	19	15	34	-60	-16	71
Packing Tissue	6	-6	-1	-3	2	4	-3	-3	-3	-3	1	-3	-7	0	-15	-4	27	10	-22	-3	34	17	2	34	25	31	1	-9	-9	-2	-6	-6	-4	2	4	0	10	4	-5	6	5	-18	16	31	7	10	-31	1	30
Kernel Fill	-19	-15	-17	-17	-27	-7	-21	26	-19	-19	23	26	7	5	-45	11	3	2	-62	61	28	34	-26	24	5	6	-3	-4	-7	9	-5	-7	-51	55	-5	-4	0	1	-23	-5	-27	-6	13	2	7	10	-12	-2	
Tip Shrivel	32	3	12	19	8	33	18	-7	19	18	4	-6	-34	-29	16	13	9	19	6	-8	-7	2	7	-2	0	7	25	3	7	20	15	16	-17	-8	13	1	22	20	-26	-5	-18	7	8	6	20	14	-2	15	-2
Minor Shrivel	1	4	1	2	-4	1	0	3	1	1	9	-3	-1	-1	4	-1	-8	3	7	-7	-9	2	-3	-10	-3	-7	2	3	-4	0	0	0	2	-5	1	-2	1	-1	3	0	7	-4	-13	-7	-2	4	12	-8	
Major Shrivel	8	-3	-4	-4	12	11	0	-12	-2	-2	-7	-9	-11	-10	-3	-4	0	3	0	8	8	-2	12	0	8	8	-2	1	-2	-2	-3	-3	4	-4	-5	-2	1	-3	-3	-1	4	-1	16	19	-5	-5	3	7	
Plumpness	6	4	12	7	4	0	7	-3	7	8	-8	-1	-1	-3	-12	27	5	14	-32	43	2	16	3	-4	2	16	13	15	33	18	17	-58	29	11	9	5	13	-25	-25	-11	-13	-6	3	-7	20	20	-6	-16	
Ease Of Removal	-1	1	1	-3	-2	-3	-3	-3	-3	-3	-3	-3	3	1	-23	4	29	15	-39	12	43	32	2	41	33	40	-3	2	-2	5	-2	-2	-22	15	-4	-3	15	-6	-5	-18	-6	-29	26	0	15	-33	2	32	
Kernel Weight Ratio	-19	1	-2	-4	-25	-23	-7	27	-6	-5	20	24	23	21	15	8	-63	-10	36	21	-82	-11	-26	-82	-33	-57	-3	11	18	9	4	7	-8	-10	9	10	-17	2	-11	4	6	64	20	-28	-24	-18	79	14	-89
Blank	12	0	4	5	12	18	6	-12	6	5	-8	-7	-19	-14	-2	11	8	8	-7	5	7	0	12	8	3	8	15	-1	3	8	7	8	-1	10	8	7	7	15	3	2	3	-6	2	1	16	11	-5	-2	6