Supplementary materials A

The elastic constants

No.	Race	Age	Gender	Weight (lbs)	Height (feet, inches)	BMI	Cortical	Trabecular	Side	E1 (GPa)	E2 (GPa)	E3 (GPa)	v12	v23	v31	G12	G23	G31
1	c	23	f	276	5.5	45.9	1.15802	0.93508	Right	1.027	1.027	1.706	0.400	0.250	0.250	0.046	0.058	0.053
2	c	23	f	276	5.5	45.9	1.11037	0.97599	Left	1.108	1.108	1.830	0.400	0.250	0.250	0.051	0.063	0.058
5	b	37	f	176	5.6	28.4	1.275308	1.111324	Right	1.396	1.396	2.264	0.400	0.250	0.250	0.066	0.082	0.076
6	b	37	f	176	5.6	28.4	1.227658	1.093279	Left	1.356	1.356	2.204	0.400	0.250	0.250	0.063	0.079	0.073
7	m	40	f	214	5.8	32.5	1.200805	1.044722	Right	1.251	1.251	2.046	0.400	0.250	0.250	0.058	0.072	0.067
8	m	40	f	214	5.8	32.5	1.153155	1.018775	Left	1.196	1.196	1.963	0.400	0.250	0.250	0.055	0.069	0.064
9	b	41	f	280	5.3	49.7	1.286914	1.057654	Right	1.278	1.278	2.087	0.400	0.250	0.250	0.059	0.074	0.068
10	b	41	f	280	5.3	49.7	1.334564	1.200184	Left	1.601	1.601	2.568	0.400	0.250	0.250	0.076	0.095	0.088
11	c	41	f	103	5.2	18.9	1.114696	0.86099	Right	0.886	0.886	1.490	0.400	0.250	0.250	0.039	0.049	0.045
12	c	41	f	103	5.2	18.9	1.162346	1.027966	Left	1.215	1.215	1.992	0.400	0.250	0.250	0.056	0.070	0.065
13	c	47	f	138	6.1	18.3	1.084958	0.877674	Right	0.917	0.917	1.537	0.400	0.250	0.250	0.041	0.051	0.047
14	c	47	f	138	6.1	18.3	1.037308	0.902928	Left	0.965	0.965	1.610	0.400	0.250	0.250	0.043	0.054	0.050
15	c	51	f	152	5.7	24.2	1.054411	0.835433	Right	0.840	0.840	1.418	0.400	0.250	0.250	0.037	0.046	0.043
16	c	51	f	152	5.7	24.2	1.102061	0.967681	Left	1.091	1.091	1.804	0.400	0.250	0.250	0.050	0.062	0.057
17	c	54	f	141	5.8	21.9	1.019796	0.873569	Right	0.910	0.910	1.525	0.400	0.250	0.250	0.041	0.050	0.047
18	c	54	f	130	5.5	21.6	1.009598	0.827355	Right	0.826	0.826	1.395	0.400	0.250	0.250	0.036	0.045	0.042
19	c	54	f	141	5.8	21.9	0.972146	0.837766	Left	0.844	0.844	1.424	0.400	0.250	0.250	0.037	0.046	0.043
20	c	54	f	130	5.5	21.6	1.057248	0.922868	Left	1.003	1.003	1.669	0.400	0.250	0.250	0.045	0.056	0.052
21	c	55	f	173	5.1	32.7	0.9994	0.757805	Right	0.706	0.706	1.208	0.400	0.250	0.250	0.030	0.038	0.035
22	c	55	f	173	5.1	32.7	0.95175	0.81737	Left	0.808	0.808	1.368	0.400	0.250	0.250	0.035	0.044	0.041
23	c	56	f	229	5.2	41.9	1.001169	0.784242	Right	0.751	0.751	1.278	0.400	0.250	0.250	0.033	0.041	0.038
24	c	56	f	157	5.6	25.4	0.981146	0.682268	Right	0.586	0.586	1.017	0.400	0.250	0.250	0.025	0.031	0.028

25	c	56	f	223	5.10.	32.1	1.011181	0.841812	Right	0.852	0.852	1.436	0.400	0.250	0.250	0.038	0.047	0.043
26	c	56	f	229	5.2	41.9	0.953519	0.81914	Left	0.811	0.811	1.373	0.400	0.250	0.250	0.036	0.044	0.041
27	c	56	f	157	5.6	25.4	1.028796	0.894416	Left	0.949	0.949	1.586	0.400	0.250	0.250	0.042	0.053	0.049
28	c	56	f	223	5.10.	32.1	1.058831	0.924451	Left	1.006	1.006	1.674	0.400	0.250	0.250	0.045	0.057	0.052
29	b	58	f	251	5.6	40.6	0.960014	0.740362	Right	0.678	0.678	1.163	0.400	0.250	0.250	0.029	0.036	0.034
30	b	58	f	251	5.6	40.6	1.007664	0.873285	Left	0.909	0.909	1.525	0.400	0.250	0.250	0.040	0.050	0.047
31	c	58	f	218	5.7	34.1	0.975886	0.75175	Right	0.696	0.696	1.192	0.400	0.250	0.250	0.030	0.037	0.035
32	c	58	f	156	5.1	29.6	0.956368	0.717993	Right	0.642	0.642	1.106	0.400	0.250	0.250	0.027	0.034	0.032
33	c	58	f	218	5.7	34.1	0.928236	0.793856	Left	0.767	0.767	1.304	0.400	0.250	0.250	0.033	0.042	0.039
34	c	58	f	156	5.1	29.6	0.908718	0.774338	Left	0.734	0.734	1.252	0.400	0.250	0.250	0.032	0.040	0.037
35	b	59	f	160	5.6	25.9	1.094391	0.861632	Right	0.888	0.888	1.491	0.400	0.250	0.250	0.039	0.049	0.045
36	b	59	f	160	5.6	25.9	1.046741	0.912361	Left	0.983	0.983	1.638	0.400	0.250	0.250	0.044	0.055	0.051
37	b	60	f	259	5.4	44.6	1.116726	0.893158	Right	0.946	0.946	1.582	0.400	0.250	0.250	0.042	0.053	0.049
38	b	60	f	259	5.4	44.6	1.069076	0.934696	Left	1.026	1.026	1.704	0.400	0.250	0.250	0.046	0.058	0.053
39	c	60	f	246	5.6	39.8	0.932479	0.722467	Right	0.649	0.649	1.117	0.400	0.250	0.250	0.028	0.035	0.032
40	c	60	f	114	5.4	19.6	0.941994	0.766445	Right	0.721	0.721	1.231	0.400	0.250	0.250	0.031	0.039	0.036
41	c	60	f	246	5.6	39.8	0.980129	0.84575	Left	0.859	0.859	1.447	0.400	0.250	0.250	0.038	0.047	0.044
42	c	60	f	114	5.4	19.6	0.989644	0.855265	Left	0.876	0.876	1.473	0.400	0.250	0.250	0.039	0.048	0.045
43	c	61	f	115	5.5	19.1	0.95151	0.686932	Right	0.593	0.593	1.029	0.400	0.250	0.250	0.025	0.031	0.029
44	c	61	f	115	5.5	19.1	0.99916	0.86478	Left	0.893	0.893	1.500	0.400	0.250	0.250	0.040	0.049	0.046
45	b	62	f	181	5.9	26.8	1.089424	0.807417	Right	0.791	0.791	1.341	0.400	0.250	0.250	0.035	0.043	0.040
46	b	62	f	181	5.9	26.8	1.137074	1.002695	Left	1.163	1.163	1.912	0.400	0.250	0.250	0.053	0.066	0.062
47	c	62	f	207	5	40.6	0.911407	0.660264	Right	0.553	0.553	0.964	0.400	0.250	0.250	0.023	0.029	0.027
48	c	62	f	207	5	40.6	0.920707	0.724478	Right	0.652	0.652	1.122	0.400	0.250	0.250	0.028	0.035	0.032
49	c	62	f	170	5.5	29.3	0.943958	0.699563	Right	0.613	0.613	1.060	0.400	0.250	0.250	0.026	0.032	0.030
50	c	62	f	207	5	40.6	0.863757	0.729378	Left	0.660	0.660	1.135	0.400	0.250	0.250	0.028	0.035	0.033
51	c	62	f	207	5	40.6	0.873057	0.738678	Left	0.675	0.675	1.159	0.400	0.250	0.250	0.029	0.036	0.033
52	c	62	f	170	5.5	29.3	0.991608	0.857228	Left	0.880	0.880	1.479	0.400	0.250	0.250	0.039	0.049	0.045

53	c	63	f	203	5.5	33.8	0.939308	0.71419	Right	0.636	0.636	1.096	0.400	0.250	0.250	0.027	0.034	0.031
54	c	63	f	203	5.5	33.8	0.986958	0.852578	Left	0.871	0.871	1.466	0.400	0.250	0.250	0.039	0.048	0.044
55	b	65	f	140	5.7	22	1.036671	0.893368	Right	0.947	0.947	1.583	0.400	0.250	0.250	0.042	0.053	0.049
56	b	65	f	140	5.7	22	1.084321	0.949941	Left	1.056	1.056	1.750	0.400	0.250	0.250	0.048	0.060	0.055
57	c	65	f	88	5.2	16.1	0.883897	0.681404	Right	0.585	0.585	1.015	0.400	0.250	0.250	0.025	0.031	0.028
58	c	65	f	129	5.4	22.3	0.90413	0.719507	Right	0.644	0.644	1.110	0.400	0.250	0.250	0.027	0.034	0.032
59	c	65	f	192	5.5	32.1	0.866219	0.629008	Right	0.507	0.507	0.890	0.400	0.250	0.250	0.021	0.026	0.024
60	c	65	f	133	5.6	21.5	0.892736	0.711278	Right	0.631	0.631	1.089	0.400	0.250	0.250	0.027	0.033	0.031
61	c	65	f	88	5.2	16.1	0.931547	0.797167	Left	0.773	0.773	1.313	0.400	0.250	0.250	0.034	0.042	0.039
62	c	65	f	129	5.4	22.3	0.85648	0.7221	Left	0.648	0.648	1.116	0.400	0.250	0.250	0.028	0.034	0.032
63	c	65	f	192	5.5	32.1	0.913869	0.779489	Left	0.743	0.743	1.265	0.400	0.250	0.250	0.032	0.040	0.037
64	c	65	f	133	5.6	21.5	0.845086	0.710706	Left	0.630	0.630	1.088	0.400	0.250	0.250	0.027	0.033	0.031
65	b	66	f	132	5.4	22.8	1.015937	0.774412	Right	0.734	0.734	1.252	0.400	0.250	0.250	0.032	0.040	0.037
66	b	66	f	132	5.4	22.8	1.063587	0.929208	Left	1.015	1.015	1.688	0.400	0.250	0.250	0.046	0.057	0.053
67	c	66	f	130	5.4	22.3	0.875058	0.723485	Right	0.650	0.650	1.120	0.400	0.250	0.250	0.028	0.035	0.032
68	c	66	f	130	5.4	22.3	0.922708	0.788328	Left	0.758	0.758	1.289	0.400	0.250	0.250	0.033	0.041	0.038
69	c	67	f	92	5.4	15.8	0.855833	0.662872	Right	0.557	0.557	0.970	0.400	0.250	0.250	0.023	0.029	0.027
70	c	67	f	121	5.6	20	0.838716	0.604344	Right	0.472	0.472	0.834	0.400	0.250	0.250	0.019	0.024	0.022
71	c	67	f	100	5.7	15.7	0.847275	0.599777	Right	0.466	0.466	0.823	0.400	0.250	0.250	0.019	0.024	0.022
72	c	67	f	92	5.4	15.8	0.903483	0.769103	Left	0.725	0.725	1.238	0.400	0.250	0.250	0.031	0.039	0.036
73	c	67	f	121	5.6	20	0.886366	0.751987	Left	0.697	0.697	1.193	0.400	0.250	0.250	0.030	0.037	0.035
74	c	67	f	100	5.7	15.7	0.894925	0.760545	Left	0.711	0.711	1.215	0.400	0.250	0.250	0.031	0.038	0.035
75	b	69	f	209	5.1	39.5	0.997418	0.766963	Right	0.721	0.721	1.232	0.400	0.250	0.250	0.031	0.039	0.036
76	b	69	f	270	5.7	42.3	0.97747	0.824622	Right	0.821	0.821	1.388	0.400	0.250	0.250	0.036	0.045	0.042
77	b	69	f	209	5.1	39.5	1.045068	0.910688	Left	0.980	0.980	1.633	0.400	0.250	0.250	0.044	0.055	0.051
78	b	69	f	270	5.7	42.3	0.92982	0.79544	Left	0.770	0.770	1.308	0.400	0.250	0.250	0.034	0.042	0.039
79	c	69	f	250	5.7	39.2	0.824416	0.596789	Right	0.462	0.462	0.817	0.400	0.250	0.250	0.019	0.024	0.022

80	c	69	f	178	4.11	36	0.83266	0.587802	Right	0.449	0.449	0.797	0.400	0.250	0.250	0.018	0.023	0.021
81	c	69	f	250	5.7	39.2	0.872066	0.737686	Left	0.673	0.673	1.156	0.400	0.250	0.250	0.029	0.036	0.033
82	c	69	f	178	4.11	36	0.88031	0.745931	Left	0.687	0.687	1.177	0.400	0.250	0.250	0.030	0.037	0.034
83	b	70	f	204	5.2	37.3	0.987444	0.747699	Right	0.690	0.690	1.182	0.400	0.250	0.250	0.030	0.037	0.034
84	b	70	f	204	5.2	37.3	1.035094	0.900714	Left	0.961	0.961	1.604	0.400	0.250	0.250	0.043	0.054	0.050
85	c	70	f	218	5.4	37.6	0.807928	0.621432	Right	0.496	0.496	0.873	0.400	0.250	0.250	0.021	0.026	0.024
86	c	70	f	158	5	30.9	0.816172	0.658729	Right	0.550	0.550	0.960	0.400	0.250	0.250	0.023	0.029	0.027
87	c	70	f	218	5.4	37.6	0.760278	0.625898	Left	0.502	0.502	0.883	0.400	0.250	0.250	0.021	0.026	0.024
88	c	70	f	158	5	30.9	0.863822	0.729442	Left	0.660	0.660	1.135	0.400	0.250	0.250	0.028	0.035	0.033
89	b	71	f	128	5.11	17.9	0.959232	0.710729	Right	0.630	0.630	1.088	0.400	0.250	0.250	0.027	0.033	0.031
90	b	71	f	128	5.11	17.9	1.006882	0.872503	Left	0.908	0.908	1.522	0.400	0.250	0.250	0.040	0.050	0.047
91	c	73	f	112	5	21.9	0.787213	0.654441	Right	0.544	0.544	0.950	0.400	0.250	0.250	0.023	0.028	0.026
92	c	73	f	112	5	21.9	0.739563	0.605183	Left	0.473	0.473	0.836	0.400	0.250	0.250	0.019	0.024	0.022
93	c	74	f	195	5.1	36.8	0.757866	0.565863	Right	0.420	0.420	0.748	0.400	0.250	0.250	0.017	0.021	0.020
94	c	74	f	199	5.4	34	0.757866	0.550532	Right	0.400	0.400	0.715	0.400	0.250	0.250	0.016	0.020	0.019
95	c	74	f	151	5.3	26.8	0.765599	0.533995	Right	0.379	0.379	0.680	0.400	0.250	0.250	0.015	0.019	0.017
96	c	74	f	115	5	22.6	0.781066	0.54073	Right	0.387	0.387	0.695	0.400	0.250	0.250	0.016	0.019	0.018
97	c	74	f	195	5.1	36.8	0.710216	0.575836	Left	0.433	0.433	0.770	0.400	0.250	0.250	0.018	0.022	0.020
98	c	74	f	199	5.4	34	0.710216	0.575836	Left	0.433	0.433	0.770	0.400	0.250	0.250	0.018	0.022	0.020
99	c	74	f	151	5.3	26.8	0.813249	0.678869	Left	0.581	0.581	1.009	0.400	0.250	0.250	0.024	0.030	0.028
100	c	74	f	115	5	22.6	0.733416	0.599036	Left	0.465	0.465	0.822	0.400	0.250	0.250	0.019	0.024	0.022
101	c	75	f	148	5.5	24.6	0.74285	0.502514	Right	0.340	0.340	0.616	0.400	0.250	0.250	0.013	0.017	0.015
102	c	75	f	148	5.5	24.6	0.7905	0.65612	Left	0.546	0.546	0.954	0.400	0.250	0.250	0.023	0.028	0.026
103	c	77	f	162	5	31.67	0.731137	0.596757	Right	0.462	0.462	0.817	0.400	0.250	0.250	0.019	0.024	0.022
104	c	77	f	108	5	21.1	0.75801	0.485314	Right	0.319	0.319	0.582	0.400	0.250	0.250	0.013	0.016	0.014
105	c	77	f	165	5.7	25.9	0.738449	0.50012	Right	0.337	0.337	0.611	0.400	0.250	0.250	0.013	0.017	0.015
106	c	77	f	162	5	31.67	0.778787	0.644407	Left	0.529	0.529	0.926	0.400	0.250	0.250	0.022	0.027	0.025
107	c	77	f	108	5	21.1	0.71036	0.575981	Left	0.433	0.433	0.770	0.400	0.250	0.250	0.018	0.022	0.020

108	c	77	f	165	5.7	25.9	0.690799	0.556419	Left	0.408	0.408	0.728	0.400	0.250	0.250	0.016	0.020	0.019
109	c	78	f	173	5.5	28.8	0.716514	0.488364	Right	0.323	0.323	0.588	0.400	0.250	0.250	0.013	0.016	0.015
110	c	78	f	147	5	28.7	0.723826	0.60363	Right	0.471	0.471	0.832	0.400	0.250	0.250	0.019	0.024	0.022
111	c	78	f	127	5.3	22.7	0.706946	0.44099	Right	0.269	0.269	0.497	0.400	0.250	0.250	0.010	0.013	0.012
112	c	78	f	173	5.5	28.8	0.668864	0.534485	Left	0.379	0.379	0.682	0.400	0.250	0.250	0.015	0.019	0.017
113	c	78	f	147	5	28.7	0.771476	0.637096	Left	0.519	0.519	0.909	0.400	0.250	0.250	0.022	0.027	0.025
114	c	78	f	127	5.3	22.7	0.754596	0.620216	Left	0.494	0.494	0.870	0.400	0.250	0.250	0.020	0.025	0.024
115	c	79	f	245	5.4	42.1	0.692709	0.457893	Right	0.288	0.288	0.529	0.400	0.250	0.250	0.011	0.014	0.013
116	c	79	f	220	5.7	34.5	0.706946	0.576803	Right	0.434	0.434	0.772	0.400	0.250	0.250	0.018	0.022	0.020
117	c	79	f	245	5.4	42.1	0.645059	0.510679	Left	0.350	0.350	0.632	0.400	0.250	0.250	0.014	0.017	0.016
118	c	79	f	220	5.7	34.5	0.754596	0.620216	Left	0.494	0.494	0.870	0.400	0.250	0.250	0.020	0.025	0.024
119	c	80	f	179	5	35	0.706846	0.456319	Right	0.286	0.286	0.526	0.400	0.250	0.250	0.011	0.014	0.013
120	c	80	f	179	5	35	0.659196	0.524816	Left	0.367	0.367	0.661	0.400	0.250	0.250	0.015	0.018	0.017
121	b	82	f	125	5.7	19.7	0.819924	0.560414	Right	0.413	0.413	0.737	0.400	0.250	0.250	0.017	0.021	0.019
122	b	82	f	109	5.4	18.7	0.764808	0.531199	Right	0.375	0.375	0.675	0.400	0.250	0.250	0.015	0.019	0.017
123	b	82	f	125	5.7	19.7	0.867574	0.733194	Left	0.666	0.666	1.145	0.400	0.250	0.250	0.029	0.036	0.033
124	b	82	f	109	5.4	18.7	0.812458	0.678078	Left	0.579	0.579	1.007	0.400	0.250	0.250	0.024	0.030	0.028
125	c	82	f	232	5.3	41.2	0.68555	0.565981	Right	0.420	0.420	0.749	0.400	0.250	0.250	0.017	0.021	0.020
126	c	82	f	143	5.7	22.4	0.678695	0.399434	Right	0.226	0.226	0.423	0.400	0.250	0.250	0.008	0.011	0.010
127	c	82	f	232	5.3	41.2	0.7332	0.598821	Left	0.464	0.464	0.821	0.400	0.250	0.250	0.019	0.024	0.022
128	c	82	f	143	5.7	22.4	0.631045	0.496665	Left	0.333	0.333	0.604	0.400	0.250	0.250	0.013	0.016	0.015
129	b	83	f	186	5.6	30.2	0.780416	0.546478	Right	0.395	0.395	0.707	0.400	0.250	0.250	0.016	0.020	0.018
130	b	83	f	120	5.7	18.8	0.741464	0.521811	Right	0.364	0.364	0.655	0.400	0.250	0.250	0.014	0.018	0.017
131	b	83	f	186	5.6	30.2	0.828066	0.693687	Left	0.603	0.603	1.045	0.400	0.250	0.250	0.026	0.032	0.029
132	b	83	f	120	5.7	18.8	0.693814	0.559434	Left	0.411	0.411	0.734	0.400	0.250	0.250	0.017	0.021	0.019
133	c	83	f	140	5.2	25.6	0.772612	0.531017	Right	0.375	0.375	0.674	0.400	0.250	0.250	0.015	0.019	0.017
134	c	83	f	169	5.5	28.2	0.671839	0.437928	Right	0.266	0.266	0.492	0.400	0.250	0.250	0.010	0.013	0.012
135	c	83	f	140	5.2	25.6	0.724962	0.590582	Left	0.453	0.453	0.803	0.400	0.250	0.250	0.019	0.023	0.021

136	c	83	f	169	5.5	28.2	0.719489	0.58511	Left	0.446	0.446	0.791	0.400	0.250	0.250	0.018	0.023	0.021
137	b	84	f	123	5.1	23.2	0.663859	0.424143	Right	0.251	0.251	0.466	0.400	0.250	0.250	0.010	0.012	0.011
138	b	84	f	126	5.3	22.3	0.741464	0.60255	Right	0.470	0.470	0.830	0.400	0.250	0.250	0.019	0.024	0.022
139	b	84	f	123	5.1	23.2	0.711509	0.57713	Left	0.435	0.435	0.773	0.400	0.250	0.250	0.018	0.022	0.020
140	b	84	f	126	5.3	22.3	0.789114	0.654734	Left	0.544	0.544	0.951	0.400	0.250	0.250	0.023	0.028	0.026
141	c	85	f	108	5	21.1	0.653894	0.450504	Right	0.280	0.280	0.515	0.400	0.250	0.250	0.011	0.013	0.012
142	c	85	f	139	5.2	25.5	0.640816	0.510037	Right	0.349	0.349	0.631	0.400	0.250	0.250	0.014	0.017	0.016
143	c	85	f	74	5.1	14	0.647355	0.401627	Right	0.228	0.228	0.427	0.400	0.250	0.250	0.009	0.011	0.010
144	c	85	f	108	5	21.1	0.606244	0.471864	Left	0.304	0.304	0.556	0.400	0.250	0.250	0.012	0.015	0.014
145	c	85	f	139	5.2	25.5	0.688466	0.554086	Left	0.404	0.404	0.723	0.400	0.250	0.250	0.016	0.020	0.019
146	c	85	f	74	5.1	14	0.695005	0.560625	Left	0.413	0.413	0.737	0.400	0.250	0.250	0.017	0.021	0.019
147	c	86	f	123	5	24	1.396307	1.396307	Right	2.096	2.096	3.292	0.400	0.250	0.250	0.104	0.129	0.119
148	c	86	f	123	5	24	1.443957	1.309577	Left	1.870	1.870	2.963	0.400	0.250	0.250	0.091	0.113	0.105
149	b	89	f	93	5.4	16	0.799176	0.569273	Right	0.424	0.424	0.756	0.400	0.250	0.250	0.017	0.021	0.020
150	b	89	f	93	5.4	16	0.751526	0.617147	Left	0.490	0.490	0.863	0.400	0.250	0.250	0.020	0.025	0.023
151	c	89	f	158	5.3	28.1	0.654047	0.502474	Right	0.340	0.340	0.616	0.400	0.250	0.250	0.013	0.017	0.015
152	c	89	f	88	4.1	18.4	0.654047	0.473221	Right	0.305	0.305	0.558	0.400	0.250	0.250	0.012	0.015	0.014
153	c	89	f	110	5.2	20.1	0.647507	0.445587	Right	0.274	0.274	0.506	0.400	0.250	0.250	0.011	0.013	0.012
154	c	89	f	115	5.3	20.5	0.660588	0.440525	Right	0.269	0.269	0.496	0.400	0.250	0.250	0.010	0.013	0.012
155	c	89	f	158	5.3	28.1	0.701697	0.567317	Left	0.422	0.422	0.752	0.400	0.250	0.250	0.017	0.021	0.020
156	c	89	f	88	4.1	18.4	0.701697	0.567317	Left	0.422	0.422	0.752	0.400	0.250	0.250	0.017	0.021	0.020
157	c	89	f	110	5.2	20.1	0.599857	0.465477	Left	0.297	0.297	0.543	0.400	0.250	0.250	0.012	0.014	0.013
158	c	89	f	115	5.3	20.5	0.708238	0.573858	Left	0.431	0.431	0.766	0.400	0.250	0.250	0.017	0.022	0.020
159	c	90	f	156	5.4	26.8	0.623631	0.416044	Right	0.243	0.243	0.452	0.400	0.250	0.250	0.009	0.011	0.011
160	c	90	f	130	5.6	21	0.629995	0.402268	Right	0.229	0.229	0.428	0.400	0.250	0.250	0.009	0.011	0.010
161	c	90	f	156	5.4	26.8	0.671281	0.536901	Left	0.382	0.382	0.687	0.400	0.250	0.250	0.015	0.019	0.018
162	c	90	f	130	5.6	21	0.677645	0.543265	Left	0.391	0.391	0.700	0.400	0.250	0.250	0.016	0.020	0.018
163	c	91	f	152	5.7	23.8	0.636358	0.404759	Right	0.231	0.231	0.432	0.400	0.250	0.250	0.009	0.011	0.010

164	c	91	f	152	5.7	23.8	0.588708	0.454329	Left	0.284	0.284	0.522	0.400	0.250	0.250	0.011	0.014	0.013
165	c	95	f	94	5.2	17.3	0.600981	0.351331	Right	0.180	0.180	0.342	0.400	0.250	0.250	0.007	0.008	0.008
166	c	95	f	115	5.3	20.4	0.588961	0.355063	Right	0.183	0.183	0.348	0.400	0.250	0.250	0.007	0.008	0.008
167	c	95	f	94	5.2	17.3	0.553331	0.418951	Left	0.246	0.246	0.457	0.400	0.250	0.250	0.009	0.012	0.011
168	c	95	f	115	5.3	20.4	0.541311	0.406931	Left	0.233	0.233	0.436	0.400	0.250	0.250	0.009	0.011	0.010
3	c	65	m	164	5.10.	23.9	1.179845	0.958491	Right	1.073	1.073	1.776	0.400	0.250	0.250	0.049	0.061	0.056
4	c	65	m	164	5.10.	23.9	1.227495	1.093116	Left	1.356	1.356	2.203	0.400	0.250	0.250	0.063	0.079	0.073
169	c	26	m	150	5.11	21	1.33942	1.099911	Right	1.371	1.371	2.226	0.400	0.250	0.250	0.064	0.080	0.074
170	c	26	m	150	5.11	21	1.38707	1.25269	Left	1.728	1.728	2.755	0.400	0.250	0.250	0.083	0.104	0.096
171	b	34	m	173	5.7	27.1	1.494392	1.29863	Right	1.842	1.842	2.923	0.400	0.250	0.250	0.090	0.111	0.103
172	b	34	m	173	5.7	27.1	1.446742	1.312362	Left	1.877	1.877	2.974	0.400	0.250	0.250	0.091	0.114	0.105
173	b	45	m	345	6.2	44.3	1.410038	1.238871	Right	1.694	1.694	2.705	0.400	0.250	0.250	0.081	0.101	0.094
174	b	45	m	345	6.2	44.3	1.362388	1.228008	Left	1.668	1.668	2.667	0.400	0.250	0.250	0.080	0.100	0.092
175	c	45	m	191	5.9	28.3	1.241185	1.04591	Right	1.253	1.253	2.049	0.400	0.250	0.250	0.058	0.072	0.067
176	c	45	m	191	5.9	28.3	1.288835	1.154455	Left	1.494	1.494	2.410	0.400	0.250	0.250	0.071	0.088	0.082
177	c	46	m	192	5.7	30.1	1.237487	0.996625	Right	1.150	1.150	1.893	0.400	0.250	0.250	0.053	0.066	0.061
178	c	46	m	192	5.7	30.1	1.189837	1.055457	Left	1.274	1.274	2.080	0.400	0.250	0.250	0.059	0.074	0.068
179	b	48	m	443	6.6	51	1.402525	1.354875	Right	1.987	1.987	3.133	0.400	0.250	0.250	0.097	0.121	0.112
180	b	48	m	443	6.6	51	1.184625	1.220495	Left	1.650	1.650	2.640	0.400	0.250	0.250	0.079	0.098	0.091
181	c	50	m	338	6.2	43.4	1.242518	1.020299	Right	1.199	1.199	1.968	0.400	0.250	0.250	0.055	0.069	0.064
182	c	50	m	338	6.2	43.4	1.194868	1.060488	Left	1.284	1.284	2.097	0.400	0.250	0.250	0.060	0.074	0.069
183	c	51	m	295	6.4	35.9	1.207976	0.988323	Right	1.133	1.133	1.868	0.400	0.250	0.250	0.052	0.065	0.060
184	c	51	m	200	6.2	25.7	1.207976	1.015015	Right	1.188	1.188	1.951	0.400	0.250	0.250	0.055	0.068	0.063
185	c	51	m	167	5.4	28.8	1.242518	1.054656	Right	1.272	1.272	2.078	0.400	0.250	0.250	0.059	0.074	0.068
186	c	51	m	295	6.4	35.9	1.255626	1.121246	Left	1.418	1.418	2.297	0.400	0.250	0.250	0.067	0.083	0.077
187	c	51	m	200	6.2	25.7	1.255626	1.121246	Left	1.418	1.418	2.297	0.400	0.250	0.250	0.067	0.083	0.077
188	c	51	m	167	5.4	28.8	1.194868	1.060488	Left	1.284	1.284	2.097	0.400	0.250	0.250	0.060	0.074	0.069
189	c	52	m	178	6	24.5	1.199672	1.038087	Right	1.237	1.237	2.024	0.400	0.250	0.250	0.057	0.071	0.066

190	c	52	m	178	6	24.5	1.247322	1.112942	Left	1.400	1.400	2.269	0.400	0.250	0.250	0.066	0.082	0.076
191	b	53	m	195	4	59.5	1.374138	1.217924	Right	1.643	1.643	2.631	0.400	0.250	0.250	0.079	0.098	0.091
192	b	53	m	195	4	59.5	1.421788	1.287408	Left	1.814	1.814	2.881	0.400	0.250	0.250	0.088	0.110	0.101
193	c	53	m	181	5.11	25.2	1.224155	1.033853	Right	1.228	1.228	2.011	0.400	0.250	0.250	0.057	0.071	0.065
194	c	53	m	171	5.7	26.9	1.211914	1.059576	Right	1.283	1.283	2.094	0.400	0.250	0.250	0.060	0.074	0.069
195	c	53	m	181	5.11	25.2	1.176505	1.042126	Left	1.245	1.245	2.037	0.400	0.250	0.250	0.058	0.072	0.066
196	c	53	m	171	5.7	26.9	1.164264	1.029884	Left	1.219	1.219	1.998	0.400	0.250	0.250	0.056	0.070	0.065
197	c	54	m	208	5.10.	29.9	1.22864	0.998146	Right	1.153	1.153	1.898	0.400	0.250	0.250	0.053	0.066	0.061
198	c	54	m	220	6.2	28.3	1.234723	1.00428	Right	1.166	1.166	1.917	0.400	0.250	0.250	0.054	0.067	0.062
199	c	54	m	181	5.9	26.8	1.235574	1.016166	Right	1.191	1.191	1.955	0.400	0.250	0.250	0.055	0.068	0.063
200	c	54	m	208	5.10.	29.9	1.18099	1.046611	Left	1.255	1.255	2.052	0.400	0.250	0.250	0.058	0.072	0.067
201	c	54	m	220	6.2	28.3	1.282373	1.147993	Left	1.479	1.479	2.388	0.400	0.250	0.250	0.070	0.087	0.081
202	c	54	m	181	5.9	26.8	1.187924	1.053545	Left	1.270	1.270	2.074	0.400	0.250	0.250	0.059	0.073	0.068
203	b	55	m	177	6	24.1	1.216476	0.973821	Right	1.104	1.104	1.823	0.400	0.250	0.250	0.050	0.063	0.058
204	b	55	m	189	5.6	30.6	1.363481	1.222112	Right	1.653	1.653	2.646	0.400	0.250	0.250	0.079	0.099	0.091
205	b	55	m	177	6	24.1	1.264126	1.129746	Left	1.438	1.438	2.326	0.400	0.250	0.250	0.068	0.084	0.078
206	b	55	m	189	5.6	30.6	1.411131	1.276751	Left	1.787	1.787	2.842	0.400	0.250	0.250	0.087	0.108	0.100
207	c	55	m	209	5.8	31.8	1.192146	1.026605	Right	1.212	1.212	1.988	0.400	0.250	0.250	0.056	0.070	0.064
208	c	55	m	209	5.8	31.8	1.239796	1.105416	Left	1.383	1.383	2.244	0.400	0.250	0.250	0.065	0.081	0.075
209	b	57	m	170	5.8	25.9	1.319786	1.166825	Right	1.523	1.523	2.452	0.400	0.250	0.250	0.072	0.090	0.083
210	b	57	m	170	5.8	25.9	1.272136	1.137757	Left	1.456	1.456	2.353	0.400	0.250	0.250	0.069	0.086	0.079
211	c	57	m	158	5.8	24	1.346721	1.209611	Right	1.623	1.623	2.601	0.400	0.250	0.250	0.078	0.097	0.090
212	c	57	m	198	5.5	33	1.189006	0.945319	Right	1.047	1.047	1.736	0.400	0.250	0.250	0.047	0.059	0.055
213	c	57	m	243	6	33	1.221972	1.013767	Right	1.186	1.186	1.947	0.400	0.250	0.250	0.055	0.068	0.063
214	c	57	m	158	5.8	24	1.299071	1.164691	Left	1.518	1.518	2.445	0.400	0.250	0.250	0.072	0.090	0.083
215	c	57	m	198	5.5	33	1.236656	1.102276	Left	1.376	1.376	2.234	0.400	0.250	0.250	0.065	0.080	0.074
216	c	57	m	243	6	33	1.269622	1.135243	Left	1.450	1.450	2.344	0.400	0.250	0.250	0.068	0.085	0.079
217	c	58	m	205	6	24.8	1.232629	1.015637	Right	1.189	1.189	1.953	0.400	0.250	0.250	0.055	0.068	0.063

218	c	58	m	190	5.6	30.7	1.221972	1.008722	Right	1.175	1.175	1.931	0.400	0.250	0.250	0.054	0.067	0.062
219	c	58	m	205	6	24.8	1.280279	1.145899	Left	1.474	1.474	2.380	0.400	0.250	0.250	0.070	0.087	0.080
220	c	58	m	190	5.6	30.7	1.174322	1.039943	Left	1.241	1.241	2.030	0.400	0.250	0.250	0.057	0.072	0.066
221	c	59	m	178	5.10.	25.6	1.203914	1.008737	Right	1.175	1.175	1.931	0.400	0.250	0.250	0.054	0.067	0.062
222	c	59	m	200	5.10.	28.7	1.179835	0.923566	Right	1.004	1.004	1.671	0.400	0.250	0.250	0.045	0.056	0.052
223	c	59	m	143	5.9	21.2	1.215953	1.088681	Right	1.346	1.346	2.189	0.400	0.250	0.250	0.063	0.078	0.073
224	c	59	m	178	5.10.	25.6	1.251564	1.117184	Left	1.409	1.409	2.283	0.400	0.250	0.250	0.066	0.083	0.076
225	c	59	m	200	5.10.	28.7	1.227485	1.093106	Left	1.356	1.356	2.203	0.400	0.250	0.250	0.063	0.079	0.073
226	c	59	m	143	5.9	21.2	1.263603	1.129223	Left	1.436	1.436	2.324	0.400	0.250	0.250	0.068	0.084	0.078
227	b	60	m	270	6	36.6	1.329776	1.141377	Right	1.464	1.464	2.365	0.400	0.250	0.250	0.069	0.086	0.080
228	b	60	m	270	6	36.6	1.282126	1.147746	Left	1.479	1.479	2.387	0.400	0.250	0.250	0.070	0.087	0.081
229	c	60	m	204	5.5	34	1.186058	0.969525	Right	1.095	1.095	1.810	0.400	0.250	0.250	0.050	0.062	0.058
230	c	60	m	150	5.8	22.9	1.191875	0.958677	Right	1.073	1.073	1.777	0.400	0.250	0.250	0.049	0.061	0.056
231	c	60	m	166	6	22.3	1.216009	1.000046	Right	1.157	1.157	1.904	0.400	0.250	0.250	0.053	0.066	0.061
232	c	60	m	204	5.5	34	1.138408	1.004028	Left	1.165	1.165	1.917	0.400	0.250	0.250	0.054	0.067	0.062
233	c	60	m	150	5.8	22.9	1.239525	1.105145	Left	1.382	1.382	2.243	0.400	0.250	0.250	0.065	0.081	0.075
234	c	60	m	166	6	22.3	1.263659	1.129279	Left	1.437	1.437	2.324	0.400	0.250	0.250	0.068	0.084	0.078
235	c	61	m	169	5.8	25.7	1.198038	0.986214	Right	1.129	1.129	1.861	0.400	0.250	0.250	0.052	0.064	0.060
236	c	61	m	190	5.6	30.7	1.174077	0.980775	Right	1.118	1.118	1.844	0.400	0.250	0.250	0.051	0.064	0.059
237	c	61	m	253	5.11	35.3	1.165986	0.923287	Right	1.004	1.004	1.670	0.400	0.250	0.250	0.045	0.056	0.052
238	c	61	m	255	6	34.6	1.210018	0.967636	Right	1.091	1.091	1.804	0.400	0.250	0.250	0.050	0.062	0.057
239	c	61	m	187	5.10.	26.8	1.188038	0.943643	Right	1.043	1.043	1.731	0.400	0.250	0.250	0.047	0.059	0.054
240	c	61	m	150	5.8	22.8	1.188782	0.952082	Right	1.060	1.060	1.757	0.400	0.250	0.250	0.048	0.060	0.055
241	c	61	m	169	5.8	25.7	1.150388	1.016008	Left	1.190	1.190	1.954	0.400	0.250	0.250	0.055	0.068	0.063
242	c	61	m	190	5.6	30.7	1.221727	1.087347	Left	1.343	1.343	2.184	0.400	0.250	0.250	0.063	0.078	0.072
243	c	61	m	253	5.11	35.3	1.118336	0.983957	Left	1.124	1.124	1.854	0.400	0.250	0.250	0.051	0.064	0.059
244	c	61	m	255	6	34.6	1.257668	1.123289	Left	1.423	1.423	2.304	0.400	0.250	0.250	0.067	0.083	0.077
245	c	61	m	187	5.10.	26.8	1.140388	1.006008	Left	1.169	1.169	1.923	0.400	0.250	0.250	0.054	0.067	0.062

246	c	61	m	150	5.8	22.8	1.141132	1.006752	Left	1.171	1.171	1.925	0.400	0.250	0.250	0.054	0.067	0.062
247	c	62	m	239	5.10.	34.3	1.213271	0.977302	Right	1.111	1.111	1.834	0.400	0.250	0.250	0.051	0.063	0.058
248	c	62	m	329	6.4	40.1	1.165986	0.953512	Right	1.063	1.063	1.761	0.400	0.250	0.250	0.048	0.060	0.056
249	c	62	m	194	5.10.	27.8	1.177884	0.952534	Right	1.061	1.061	1.758	0.400	0.250	0.250	0.048	0.060	0.056
250	c	62	m	224	6	30.5	1.199903	0.971957	Right	1.100	1.100	1.817	0.400	0.250	0.250	0.050	0.062	0.058
251	c	62	m	319	6.4	38.8	1.198723	0.958742	Right	1.073	1.073	1.777	0.400	0.250	0.250	0.049	0.061	0.056
252	c	62	m	239	5.10.	34.3	1.165621	1.031242	Left	1.222	1.222	2.003	0.400	0.250	0.250	0.056	0.070	0.065
253	c	62	m	329	6.4	40.1	1.213636	1.079257	Left	1.325	1.325	2.158	0.400	0.250	0.250	0.062	0.077	0.071
254	c	62	m	194	5.10.	27.8	1.225534	1.091154	Left	1.351	1.351	2.197	0.400	0.250	0.250	0.063	0.079	0.073
255	c	62	m	224	6	30.5	1.247553	1.113173	Left	1.400	1.400	2.270	0.400	0.250	0.250	0.066	0.082	0.076
256	c	62	m	319	6.4	38.8	1.151073	1.016693	Left	1.192	1.192	1.956	0.400	0.250	0.250	0.055	0.068	0.063
257	b	63	m	243	6.2	31.3	1.2716	1.069921	Right	1.305	1.305	2.127	0.400	0.250	0.250	0.061	0.076	0.070
258	b	63	m	243	6.2	31.3	1.31925	1.18487	Left	1.565	1.565	2.515	0.400	0.250	0.250	0.075	0.093	0.086
259	c	63	m	354	6.4	43.1	1.189782	0.950174	Right	1.056	1.056	1.751	0.400	0.250	0.250	0.048	0.060	0.055
260	c	63	m	210	5.8	31.9	1.168047	0.962836	Right	1.082	1.082	1.789	0.400	0.250	0.250	0.049	0.061	0.057
261	c	63	m	174	5.5	29	1.20168	1.041845	Right	1.245	1.245	2.036	0.400	0.250	0.250	0.058	0.072	0.066
262	c	63	m	244	6.1	32.2	1.189582	0.955743	Right	1.067	1.067	1.768	0.400	0.250	0.250	0.049	0.060	0.056
263	c	63	m	354	6.4	43.1	1.237432	1.103052	Left	1.378	1.378	2.236	0.400	0.250	0.250	0.065	0.080	0.074
264	c	63	m	210	5.8	31.9	1.120397	0.986017	Left	1.128	1.128	1.861	0.400	0.250	0.250	0.052	0.064	0.059
265	c	63	m	174	5.5	29	1.24933	1.11495	Left	1.404	1.404	2.276	0.400	0.250	0.250	0.066	0.082	0.076
266	c	63	m	244	6.1	32.2	1.237232	1.102852	Left	1.377	1.377	2.236	0.400	0.250	0.250	0.065	0.080	0.074
267	b	64	m	139	5.7	21.9	1.297551	1.111549	Right	1.397	1.397	2.265	0.400	0.250	0.250	0.066	0.082	0.076
268	b	64	m	139	5.7	21.9	1.249901	1.115521	Left	1.406	1.406	2.278	0.400	0.250	0.250	0.066	0.082	0.076
269	c	64	m	179	5.9	26.4	1.197543	0.989956	Right	1.136	1.136	1.873	0.400	0.250	0.250	0.052	0.065	0.060
270	c	64	m	200	5.5	33.4	1.179745	1.061953	Right	1.288	1.288	2.101	0.400	0.250	0.250	0.060	0.075	0.069
271	c	64	m	145	5.6	23.4	1.178845	0.990054	Right	1.137	1.137	1.873	0.400	0.250	0.250	0.052	0.065	0.060
272	c	64	m	179	5.9	26.4	1.149893	1.015513	Left	1.189	1.189	1.953	0.400	0.250	0.250	0.055	0.068	0.063
273	c	64	m	200	5.5	33.4	1.227395	1.093016	Left	1.355	1.355	2.203	0.400	0.250	0.250	0.063	0.079	0.073

274	c	64	m	145	5.6	23.4	1.131195	0.996816	Left	1.150	1.150	1.894	0.400	0.250	0.250	0.053	0.066	0.061
275	b	65	m	144	5.9	21.3	1.255719	1.056246	Right	1.275	1.275	2.083	0.400	0.250	0.250	0.059	0.074	0.068
276	b	65	m	207	5.9	30.7	1.268532	1.000648	Right	1.158	1.158	1.906	0.400	0.250	0.250	0.053	0.066	0.061
277	b	65	m	144	5.9	21.3	1.303369	1.168989	Left	1.528	1.528	2.460	0.400	0.250	0.250	0.073	0.090	0.084
278	b	65	m	207	5.9	30.7	1.220882	1.086502	Left	1.341	1.341	2.182	0.400	0.250	0.250	0.063	0.078	0.072
279	c	65	m	161	5.10.	23.1	1.156248	0.958017	Right	1.072	1.072	1.775	0.400	0.250	0.250	0.049	0.061	0.056
280	c	65	m	205	6.1	27.1	1.189578	0.974936	Right	1.106	1.106	1.826	0.400	0.250	0.250	0.050	0.063	0.058
281	c	65	m	143	5.6	23.1	1.178845	1.037456	Right	1.235	1.235	2.022	0.400	0.250	0.250	0.057	0.071	0.066
282	c	65	m	247	5.9	36.5	1.177745	1.036356	Right	1.233	1.233	2.019	0.400	0.250	0.250	0.057	0.071	0.066
283	c	65	m	161	5.10.	23.1	1.108598	0.974219	Left	1.104	1.104	1.824	0.400	0.250	0.250	0.050	0.063	0.058
284	c	65	m	205	6.1	27.1	1.237228	1.102848	Left	1.377	1.377	2.236	0.400	0.250	0.250	0.065	0.080	0.074
285	c	65	m	143	5.6	23.1	1.131195	0.996816	Left	1.150	1.150	1.894	0.400	0.250	0.250	0.053	0.066	0.061
286	c	65	m	247	5.9	36.5	1.130095	0.995716	Left	1.148	1.148	1.891	0.400	0.250	0.250	0.053	0.066	0.061
287	b	66	m	199	5.8	30.3	1.279847	1.058581	Right	1.280	1.280	2.090	0.400	0.250	0.250	0.059	0.074	0.069
288	b	66	m	199	5.8	30.3	1.232197	1.097817	Left	1.366	1.366	2.219	0.400	0.250	0.250	0.064	0.080	0.074
289	c	66	m	181	5.6	30.3	1.169693	0.916258	Right	0.990	0.990	1.650	0.400	0.250	0.250	0.045	0.056	0.051
290	c	66	m	214	6.2	27.5	1.157996	0.974575	Right	1.105	1.105	1.825	0.400	0.250	0.250	0.050	0.063	0.058
291	c	66	m	181	5.6	30.3	1.122043	0.987663	Left	1.132	1.132	1.866	0.400	0.250	0.250	0.052	0.064	0.060
292	c	66	m	214	6.2	27.5	1.205646	1.071266	Left	1.308	1.308	2.132	0.400	0.250	0.250	0.061	0.076	0.070
293	b	67	m	123	5.9	18.2	1.281346	1.155527	Right	1.497	1.497	2.413	0.400	0.250	0.250	0.071	0.088	0.082
294	b	67	m	123	5.9	18.2	1.233696	1.099316	Left	1.369	1.369	2.224	0.400	0.250	0.250	0.064	0.080	0.074
295	c	67	m	283	6	38.9	1.146299	0.923225	Right	1.004	1.004	1.670	0.400	0.250	0.250	0.045	0.056	0.052
296	c	67	m	224	6.3	28	1.191644	0.943766	Right	1.044	1.044	1.732	0.400	0.250	0.250	0.047	0.059	0.054
297	c	67	m	118	6.1	15.6	1.20168	1.066754	Right	1.298	1.298	2.117	0.400	0.250	0.250	0.060	0.075	0.070
298	c	67	m	234	5.11	33.1	1.173014	1.043512	Right	1.248	1.248	2.042	0.400	0.250	0.250	0.058	0.072	0.067
299	c	67	m	158	5.8	24.1	1.179445	0.943496	Right	1.043	1.043	1.731	0.400	0.250	0.250	0.047	0.059	0.054
300	c	67	m	182	5.10.	26.1	1.169193	0.995399	Right	1.148	1.148	1.890	0.400	0.250	0.250	0.053	0.066	0.061

301	c	67	m	283	6	38.9	1.098649	0.96427	Left	1.084	1.084	1.794	0.400	0.250	0.250	0.049	0.061	0.057
302	c	67	m	224	6.3	28	1.239294	1.104914	Left	1.382	1.382	2.242	0.400	0.250	0.250	0.065	0.081	0.075
303	c	67	m	118	6.1	15.6	1.15403	1.01965	Left	1.198	1.198	1.966	0.400	0.250	0.250	0.055	0.069	0.064
304	c	67	m	234	5.11	33.1	1.220664	1.086284	Left	1.341	1.341	2.181	0.400	0.250	0.250	0.063	0.078	0.072
305	c	67	m	158	5.8	24.1	1.131795	0.997416	Left	1.152	1.152	1.896	0.400	0.250	0.250	0.053	0.066	0.061
306	c	67	m	182	5.10.	26.1	1.121543	0.987163	Left	1.131	1.131	1.864	0.400	0.250	0.250	0.052	0.064	0.060
307	m	67	m	197	5.9	29.1	1.218434	1.012343	Right	1.183	1.183	1.943	0.400	0.250	0.250	0.054	0.068	0.063
308	m	67	m	197	5.9	29.1	1.170784	1.036404	Left	1.233	1.233	2.019	0.400	0.250	0.250	0.057	0.071	0.066
309	b	68	m	270	5.7	42.3	1.267175	1.063216	Right	1.290	1.290	2.105	0.400	0.250	0.250	0.060	0.075	0.069
310	b	68	m	270	5.7	42.3	1.314825	1.180445	Left	1.554	1.554	2.499	0.400	0.250	0.250	0.074	0.092	0.085
311	c	68	m	180	6.1	23.9	1.152273	0.914316	Right	0.986	0.986	1.644	0.400	0.250	0.250	0.044	0.055	0.051
312	c	68	m	208	5.7	32.6	1.129227	0.866513	Right	0.897	0.897	1.505	0.400	0.250	0.250	0.040	0.050	0.046
313	c	68	m	335	5.11	46.8	1.115372	0.889526	Right	0.939	0.939	1.571	0.400	0.250	0.250	0.042	0.052	0.048
314	c	68	m	133	5.3	23.6	1.18139	0.962249	Right	1.080	1.080	1.788	0.400	0.250	0.250	0.049	0.061	0.057
315	c	68	m	166	5.7	26	1.169557	1.003025	Right	1.163	1.163	1.913	0.400	0.250	0.250	0.053	0.067	0.062
316	c	68	m	196	5.7	30.8	1.169493	0.948159	Right	1.052	1.052	1.745	0.400	0.250	0.250	0.048	0.059	0.055
317	c	68	m	244	5.11	34.1	1.152473	1.018126	Right	1.195	1.195	1.961	0.400	0.250	0.250	0.055	0.069	0.063
318	c	68	m	180	6.1	23.9	1.104623	0.970243	Left	1.096	1.096	1.812	0.400	0.250	0.250	0.050	0.062	0.058
319	c	68	m	208	5.7	32.6	1.081577	0.947198	Left	1.051	1.051	1.742	0.400	0.250	0.250	0.048	0.059	0.055
320	c	68	m	335	5.11	46.8	1.163022	1.028642	Left	1.217	1.217	1.994	0.400	0.250	0.250	0.056	0.070	0.065
321	c	68	m	133	5.3	23.6	1.22904	1.09466	Left	1.359	1.359	2.208	0.400	0.250	0.250	0.064	0.079	0.073
322	c	68	m	166	5.7	26	1.121907	0.987527	Left	1.131	1.131	1.865	0.400	0.250	0.250	0.052	0.064	0.060
323	c	68	m	196	5.7	30.8	1.217143	1.082763	Left	1.333	1.333	2.169	0.400	0.250	0.250	0.062	0.078	0.072
324	c	68	m	244	5.11	34.1	1.200123	1.065743	Left	1.296	1.296	2.114	0.400	0.250	0.250	0.060	0.075	0.069
325	b	69	m	297	6.5	35.3	1.252634	1.139363	Right	1.459	1.459	2.358	0.400	0.250	0.250	0.069	0.086	0.079
326	b	69	m	297	6.5	35.3	1.300284	1.165905	Left	1.521	1.521	2.449	0.400	0.250	0.250	0.072	0.090	0.083
327	c	69	m	195	4	59.6	1.138134	0.961355	Right	1.079	1.079	1.785	0.400	0.250	0.250	0.049	0.061	0.057
328	c	69	m	175	5.11	24.5	1.129227	0.964344	Right	1.085	1.085	1.794	0.400	0.250	0.250	0.049	0.061	0.057
329	c	69	m	265	6.1	35	1.14075	0.937612	Right	1.032	1.032	1.713	0.400	0.250	0.250	0.047	0.058	0.054

330	c	69	m	177	5.10.	25.5	1.163796	0.93753	Right	1.031	1.031	1.713	0.400	0.250	0.250	0.047	0.058	0.054
331	c	69	m	195	5.9	28.8	1.187239	1.038669	Right	1.238	1.238	2.026	0.400	0.250	0.250	0.057	0.071	0.066
332	c	69	m	192	5.1	26.8	1.171862	0.937259	Right	1.031	1.031	1.712	0.400	0.250	0.250	0.047	0.058	0.054
333	c	69	m	195	4	59.6	1.090484	0.956104	Left	1.068	1.068	1.769	0.400	0.250	0.250	0.049	0.060	0.056
334	c	69	m	175	5.11	24.5	1.081577	0.947198	Left	1.051	1.051	1.742	0.400	0.250	0.250	0.048	0.059	0.055
335	c	69	m	265	6.1	35	1.1884	1.05402	Left	1.271	1.271	2.076	0.400	0.250	0.250	0.059	0.073	0.068
336	c	69	m	177	5.10.	25.5	1.211446	1.077066	Left	1.320	1.320	2.151	0.400	0.250	0.250	0.062	0.077	0.071
337	c	69	m	195	5.9	28.8	1.139589	1.005209	Left	1.168	1.168	1.920	0.400	0.250	0.250	0.054	0.067	0.062
338	c	69	m	192	5.1	26.8	1.124212	0.989832	Left	1.136	1.136	1.872	0.400	0.250	0.250	0.052	0.065	0.060
339	b	70	m	190	6.1	25.1	1.239388	1.001587	Right	1.160	1.160	1.909	0.400	0.250	0.250	0.053	0.066	0.061
340	b	70	m	190	6.1	25.1	1.191738	1.057359	Left	1.278	1.278	2.086	0.400	0.250	0.250	0.059	0.074	0.068
341	c	71	m	203	5.8	31.4	1.126753	0.973633	Right	1.103	1.103	1.822	0.400	0.250	0.250	0.050	0.063	0.058
342	c	71	m	218	5.9	32.2	1.155206	1.027043	Right	1.213	1.213	1.989	0.400	0.250	0.250	0.056	0.070	0.065
343	c	71	m	262	6.8	28.8	1.137134	0.888631	Right	0.938	0.938	1.569	0.400	0.250	0.250	0.042	0.052	0.048
344	c	71	m	208	5.11	29.1	1.151273	0.913516	Right	0.985	0.985	1.642	0.400	0.250	0.250	0.044	0.055	0.051
345	c	71	m	267	5.11	37.2	1.138634	1.009163	Right	1.176	1.176	1.933	0.400	0.250	0.250	0.054	0.067	0.062
346	c	71	m	203	5.8	31.4	1.079103	0.944723	Left	1.046	1.046	1.734	0.400	0.250	0.250	0.047	0.059	0.055
347	c	71	m	218	5.9	32.2	1.107556	0.973176	Left	1.102	1.102	1.821	0.400	0.250	0.250	0.050	0.063	0.058
348	c	71	m	262	6.8	28.8	1.184784	1.050404	Left	1.263	1.263	2.064	0.400	0.250	0.250	0.059	0.073	0.068
349	c	71	m	208	5.11	29.1	1.198923	1.064543	Left	1.293	1.293	2.110	0.400	0.250	0.250	0.060	0.075	0.069
350	c	71	m	267	5.11	37.2	1.090984	0.956604	Left	1.069	1.069	1.770	0.400	0.250	0.250	0.049	0.061	0.056
351	c	72	m	239	5.10.	34.4	1.10947	0.869536	Right	0.902	0.902	1.514	0.400	0.250	0.250	0.040	0.050	0.046
352	c	72	m	238	6	32.4	1.149516	0.965033	Right	1.086	1.086	1.796	0.400	0.250	0.250	0.049	0.062	0.057
353	c	72	m	178	5.7	28	1.139728	0.930023	Right	1.017	1.017	1.690	0.400	0.250	0.250	0.046	0.057	0.053
354	c	72	m	239	5.10.	34.4	1.06182	0.92744	Left	1.012	1.012	1.683	0.400	0.250	0.250	0.046	0.057	0.053
355	c	72	m	238	6	32.4	1.197166	1.062786	Left	1.289	1.289	2.104	0.400	0.250	0.250	0.060	0.075	0.069
356	c	72	m	178	5.7	28	1.092078	0.957698	Left	1.071	1.071	1.774	0.400	0.250	0.250	0.049	0.061	0.056
357	b	73	m	216	6.3	27	1.224293	0.988716	Right	1.134	1.134	1.869	0.400	0.250	0.250	0.052	0.065	0.060
358	b	73	m	216	6.3	27	1.176643	1.042263	Left	1.245	1.245	2.038	0.400	0.250	0.250	0.058	0.072	0.066

359	c	73	m	152	5.9	22.6	1.120677	0.880516	Right	0.922	0.922	1.545	0.400	0.250	0.250	0.041	0.051	0.047
360	c	73	m	190	5.7	29.9	1.098263	0.84088	Right	0.850	0.850	1.433	0.400	0.250	0.250	0.038	0.047	0.043
361	c	73	m	218	5.7	34.1	1.098263	0.853667	Right	0.873	0.873	1.469	0.400	0.250	0.250	0.039	0.048	0.045
362	c	73	m	228	6	30.9	1.098263	0.862296	Right	0.889	0.889	1.493	0.400	0.250	0.250	0.039	0.049	0.045
363	c	73	m	229	5.11	31.9	1.131884	0.908538	Right	0.975	0.975	1.627	0.400	0.250	0.250	0.044	0.055	0.051
364	c	73	m	180	5.9	26.6	1.123375	0.887798	Right	0.936	0.936	1.566	0.400	0.250	0.250	0.042	0.052	0.048
365	c	73	m	201	5.10.	29.3	1.137487	0.932969	Right	1.023	1.023	1.699	0.400	0.250	0.250	0.046	0.058	0.053
366	c	73	m	152	5.9	22.6	1.168327	1.033947	Left	1.228	1.228	2.011	0.400	0.250	0.250	0.057	0.071	0.065
367	c	73	m	190	5.7	29.9	1.050613	0.916233	Left	0.990	0.990	1.650	0.400	0.250	0.250	0.045	0.056	0.051
368	c	73	m	218	5.7	34.1	1.050613	0.916233	Left	0.990	0.990	1.650	0.400	0.250	0.250	0.045	0.056	0.051
369	c	73	m	228	6	30.9	1.050613	0.916233	Left	0.990	0.990	1.650	0.400	0.250	0.250	0.045	0.056	0.051
370	c	73	m	229	5.11	31.9	1.179534	1.045154	Left	1.252	1.252	2.047	0.400	0.250	0.250	0.058	0.072	0.067
371	c	73	m	180	5.9	26.6	1.075725	0.941345	Left	1.039	1.039	1.724	0.400	0.250	0.250	0.047	0.059	0.054
372	c	73	m	201	5.10.	29.3	1.089837	0.955457	Left	1.067	1.067	1.767	0.400	0.250	0.250	0.048	0.060	0.056
373	c	74	m	194	5.8	29.5	1.084638	0.946096	Right	1.048	1.048	1.739	0.400	0.250	0.250	0.048	0.059	0.055
374	c	74	m	196	5.6	31.6	1.095705	0.847469	Right	0.862	0.862	1.451	0.400	0.250	0.250	0.038	0.047	0.044
375	c	74	m	267	5.11	37.4	1.106673	0.876419	Right	0.915	0.915	1.534	0.400	0.250	0.250	0.041	0.051	0.047
376	c	74	m	194	5.8	29.5	1.132288	0.997908	Left	1.153	1.153	1.897	0.400	0.250	0.250	0.053	0.066	0.061
377	c	74	m	196	5.6	31.6	1.048055	0.913676	Left	0.985	0.985	1.642	0.400	0.250	0.250	0.044	0.055	0.051
378	c	74	m	267	5.11	37.4	1.059023	0.924643	Left	1.006	1.006	1.674	0.400	0.250	0.250	0.045	0.057	0.052
379	c	75	m	190	5.10.	27.3	1.117841	0.987062	Right	1.130	1.130	1.864	0.400	0.250	0.250	0.052	0.064	0.060
380	c	75	m	191	5.8	29.1	1.100313	0.975586	Right	1.107	1.107	1.828	0.400	0.250	0.250	0.051	0.063	0.058
381	c	75	m	190	5.10.	27.3	1.165491	1.031111	Left	1.222	1.222	2.002	0.400	0.250	0.250	0.056	0.070	0.065
382	c	75	m	191	5.8	29.1	1.052663	0.918283	Left	0.994	0.994	1.656	0.400	0.250	0.250	0.045	0.056	0.052
383	c	76	m	140	5.2	25.6	1.094892	0.897404	Right	0.954	0.954	1.594	0.400	0.250	0.250	0.043	0.053	0.049
384	c	76	m	109	5.8	16.6	1.101071	0.903426	Right	0.966	0.966	1.612	0.400	0.250	0.250	0.043	0.054	0.050
385	c	76	m	140	5.2	25.6	1.047242	0.912863	Left	0.984	0.984	1.640	0.400	0.250	0.250	0.044	0.055	0.051
386	c	76	m	109	5.8	16.6	1.053421	0.919042	Left	0.996	0.996	1.658	0.400	0.250	0.250	0.045	0.056	0.052

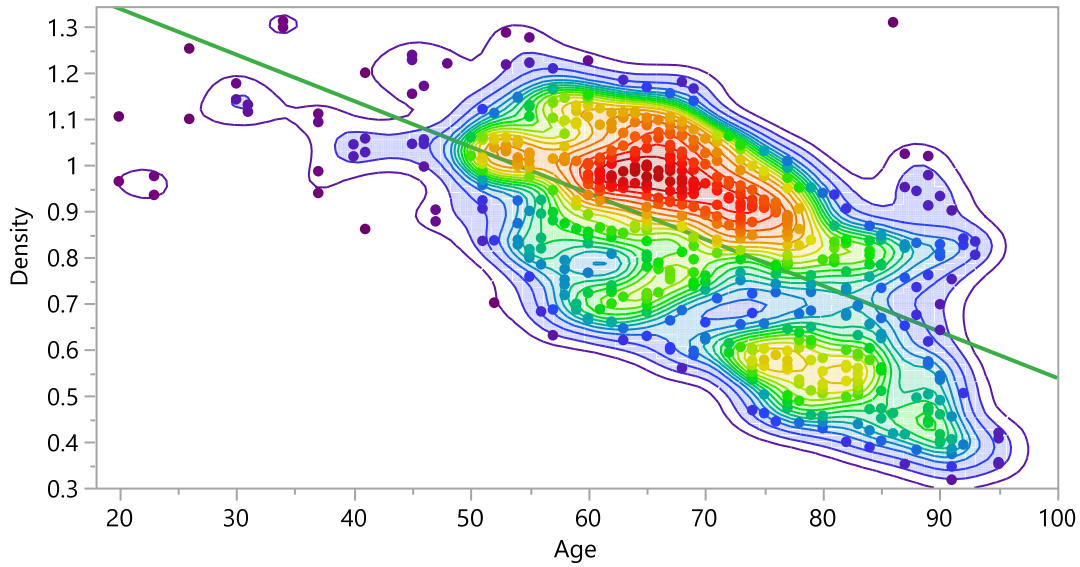
387	b	77	m	190	6.2	24.4	1.190958	0.993952	Right	1.145	1.145	1.885	0.400	0.250	0.250	0.052	0.065	0.060
388	b	77	m	190	6.2	24.4	1.143308	1.008928	Left	1.175	1.175	1.932	0.400	0.250	0.250	0.054	0.067	0.062
389	c	77	m	183	5.10.	26.3	1.084052	0.878947	Right	0.920	0.920	1.541	0.400	0.250	0.250	0.041	0.051	0.047
390	c	77	m	199	5.11	27.8	1.05912	0.804058	Right	0.785	0.785	1.331	0.400	0.250	0.250	0.034	0.043	0.040
391	c	77	m	175	5.7	27.4	1.036421	0.791589	Right	0.763	0.763	1.298	0.400	0.250	0.250	0.033	0.041	0.038
392	c	77	m	191	5.6	30.8	1.062371	0.889127	Right	0.939	0.939	1.570	0.400	0.250	0.250	0.042	0.052	0.048
393	c	77	m	164	5.6	22.6	1.073211	0.870024	Right	0.903	0.903	1.515	0.400	0.250	0.250	0.040	0.050	0.046
394	c	77	m	183	5.10.	26.3	1.131702	0.997322	Left	1.151	1.151	1.896	0.400	0.250	0.250	0.053	0.066	0.061
395	c	77	m	199	5.11	27.8	1.10677	0.97239	Left	1.101	1.101	1.819	0.400	0.250	0.250	0.050	0.063	0.058
396	c	77	m	175	5.7	27.4	1.084071	0.949691	Left	1.055	1.055	1.749	0.400	0.250	0.250	0.048	0.060	0.055
397	c	77	m	191	5.6	30.8	1.014721	0.880341	Left	0.922	0.922	1.545	0.400	0.250	0.250	0.041	0.051	0.047
398	c	77	m	164	5.6	22.6	1.025561	0.891181	Left	0.942	0.942	1.576	0.400	0.250	0.250	0.042	0.053	0.049
399	c	78	m	118	5.5	19.6	1.037937	0.825624	Right	0.823	0.823	1.391	0.400	0.250	0.250	0.036	0.045	0.042
400	c	78	m	118	5.5	19.6	1.085587	0.951207	Left	1.058	1.058	1.754	0.400	0.250	0.250	0.048	0.060	0.055
401	c	79	m	218	6.1	28.8	1.037937	0.837469	Right	0.844	0.844	1.423	0.400	0.250	0.250	0.037	0.046	0.043
402	c	79	m	218	6.1	28.8	1.085587	0.951207	Left	1.058	1.058	1.754	0.400	0.250	0.250	0.048	0.060	0.055
403	c	80	m	208	5.10.	29.9	1.026056	0.794807	Right	0.769	0.769	1.306	0.400	0.250	0.250	0.034	0.042	0.039
404	c	80	m	208	5.10.	29.9	1.073706	0.939327	Left	1.035	1.035	1.718	0.400	0.250	0.250	0.047	0.058	0.054
405	c	81	m	166	6	22.5	1.015692	0.789315	Right	0.759	0.759	1.292	0.400	0.250	0.250	0.033	0.041	0.038
406	c	81	m	225	6	30.5	1.002339	0.867971	Right	0.899	0.899	1.509	0.400	0.250	0.250	0.040	0.050	0.046
407	c	81	m	201	5.6	32.6	1.022589	0.797914	Right	0.774	0.774	1.315	0.400	0.250	0.250	0.034	0.042	0.039
408	c	81	m	166	6	22.5	0.968042	0.833662	Left	0.837	0.837	1.413	0.400	0.250	0.250	0.037	0.046	0.043
409	c	81	m	225	6	30.5	0.954689	0.82031	Left	0.813	0.813	1.376	0.400	0.250	0.250	0.036	0.044	0.041
410	c	81	m	201	5.6	32.6	1.070239	0.935859	Left	1.028	1.028	1.708	0.400	0.250	0.250	0.047	0.058	0.054
411	ai	82	m	153	5.6	25.1	0.911218	0.673302	Right	0.572	0.572	0.995	0.400	0.250	0.250	0.024	0.030	0.028
412	ai	82	m	153	5.6	25.1	0.863568	0.729188	Left	0.659	0.659	1.134	0.400	0.250	0.250	0.028	0.035	0.033
413	c	82	m	205	5.6	33.1	1.012464	0.769169	Right	0.725	0.725	1.238	0.400	0.250	0.250	0.031	0.039	0.036

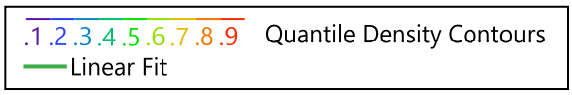
414	c	82	m	160	5.10.	23.1	0.992215	0.837692	Right	0.844	0.844	1.424	0.400	0.250	0.250	0.037	0.046	0.043
415	c	82	m	205	5.6	33.1	0.964814	0.830434	Left	0.831	0.831	1.404	0.400	0.250	0.250	0.037	0.046	0.042
416	c	82	m	160	5.10.	23.1	1.039865	0.905485	Left	0.970	0.970	1.618	0.400	0.250	0.250	0.044	0.054	0.050
417	c	84	m	233	5.6	37.6	0.986234	0.868067	Right	0.899	0.899	1.510	0.400	0.250	0.250	0.040	0.050	0.046
418	c	84	m	195	5.7	30.6	0.966509	0.8357	Right	0.841	0.841	1.418	0.400	0.250	0.250	0.037	0.046	0.043
419	c	84	m	188	5.7	29.6	0.996096	0.757667	Right	0.706	0.706	1.208	0.400	0.250	0.250	0.030	0.038	0.035
420	c	84	m	233	5.6	37.6	0.938584	0.804204	Left	0.785	0.785	1.332	0.400	0.250	0.250	0.034	0.043	0.040
421	c	84	m	195	5.7	30.6	0.918859	0.784479	Left	0.751	0.751	1.279	0.400	0.250	0.250	0.033	0.041	0.038
422	c	84	m	188	5.7	29.6	0.948446	0.814066	Left	0.802	0.802	1.359	0.400	0.250	0.250	0.035	0.044	0.041
423	b	87	m	149	6.1	19.7	1.111095	0.952046	Right	1.060	1.060	1.757	0.400	0.250	0.250	0.048	0.060	0.055
424	b	87	m	149	6.1	19.7	1.158745	1.024365	Left	1.208	1.208	1.981	0.400	0.250	0.250	0.056	0.069	0.064
425	c	87	m	149	5.10.	21.4	1.009846	0.755526	Right	0.702	0.702	1.202	0.400	0.250	0.250	0.030	0.038	0.035
426	c	87	m	149	5.10.	21.4	0.962196	0.827816	Left	0.827	0.827	1.397	0.400	0.250	0.250	0.036	0.045	0.042
427	c	88	m	164	5.3	29.1	1.030455	0.831236	Right	0.833	0.833	1.406	0.400	0.250	0.250	0.037	0.046	0.042
428	c	88	m	164	5.3	29.1	1.078105	0.943725	Left	1.044	1.044	1.731	0.400	0.250	0.250	0.047	0.059	0.054
429	b	89	m	112	5.11	15.8	1.106327	0.978134	Right	1.112	1.112	1.836	0.400	0.250	0.250	0.051	0.063	0.059
430	b	89	m	112	5.11	15.8	1.153977	1.019597	Left	1.198	1.198	1.966	0.400	0.250	0.250	0.055	0.069	0.064
431	c	89	m	209	5.8	32.4	0.999036	0.761588	Right	0.713	0.713	1.218	0.400	0.250	0.250	0.031	0.038	0.035
432	c	89	m	209	5.8	32.4	1.046686	0.912306	Left	0.983	0.983	1.638	0.400	0.250	0.250	0.044	0.055	0.051
433	c	90	m	123	5.6	19.9	1.019424	0.82815	Right	0.827	0.827	1.398	0.400	0.250	0.250	0.036	0.045	0.042
434	c	90	m	123	5.6	19.9	1.067074	0.932694	Left	1.022	1.022	1.698	0.400	0.250	0.250	0.046	0.058	0.053
435	c	91	m	175	6	23.8	0.988225	0.752456	Right	0.697	0.697	1.194	0.400	0.250	0.250	0.030	0.037	0.035
436	c	91	m	175	6	23.8	1.035875	0.901496	Left	0.962	0.962	1.606	0.400	0.250	0.250	0.043	0.054	0.050
437	c	92	m	175	5.4	30	1.008393	0.84065	Right	0.849	0.849	1.432	0.400	0.250	0.250	0.038	0.047	0.043
438	c	92	m	175	5.4	30	0.960743	0.826364	Left	0.824	0.824	1.393	0.400	0.250	0.250	0.036	0.045	0.042

Supplementary materials B

The Statistical Analysis

Bivariate Fit of Density by Age





Summary Statistics

	Value	Lower 95%	Upper 95%	Signif. Prob
Correlation	-0.62399	-0.67004	-0.57317	<.0001*
Covariance	-1.76426			
Count	614			

Variable	Mean	Std Dev
Age	68.71987	13.266

Variable	Mean	Std Dev
Density	0.851499	0.213129

Quantile Density Contours

Variable	Kernel Std
Age	2.275177
Density	0.036553

Linear Fit

Density = 1.5404122 - 0.010025*Age

Summary of Fit

RSquare	0.389366
RSquare Adj	0.388369
Root Mean Square Error	0.166682
Mean of Response	0.851499
Observations (or Sum Wgts)	614

Analysis of Variance

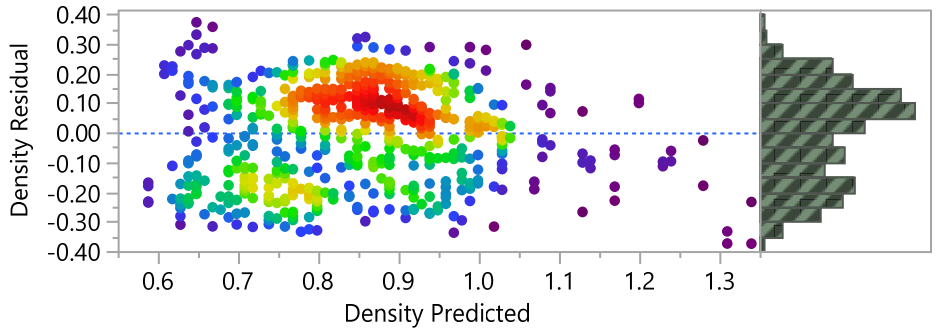
Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	10.841885	10.8419	390.2376
Error	612	17.003059	0.0278	**Prob > F**
C. Total	613	27.844944		<.0001*

Parameter Estimates

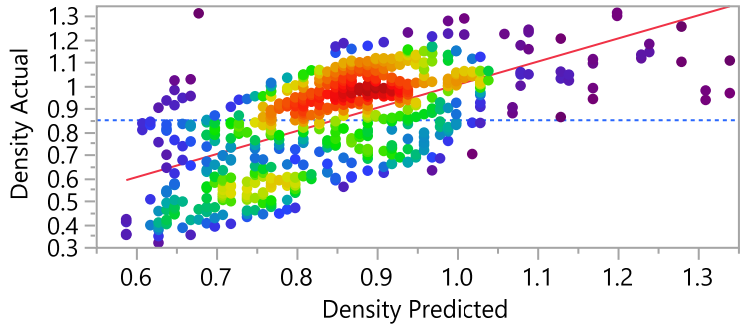
Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	1.5404122	0.035517	43.37	<.0001*
Age	-0.010025	0.000507	-19.75	<.0001*

Diagnostics Plots

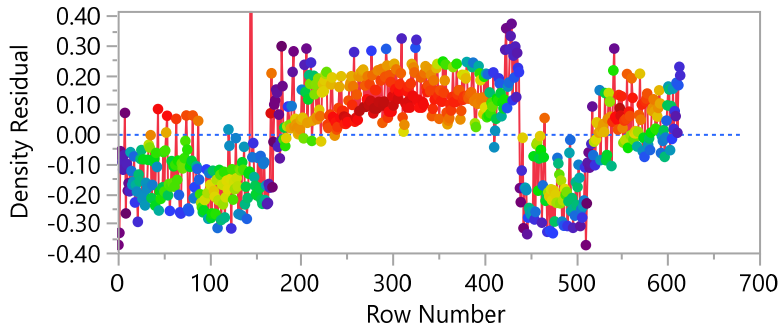
Residual by Predicted Plot



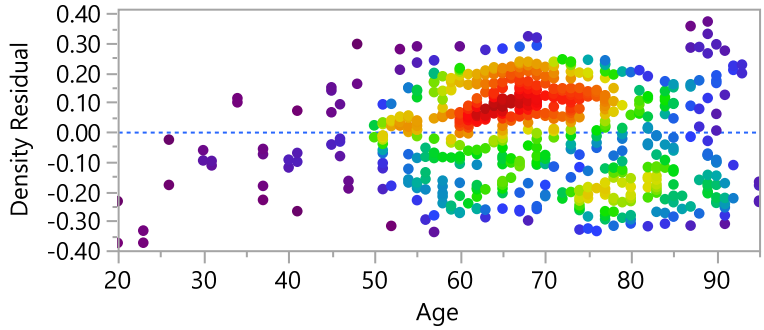
Actual by Predicted Plot



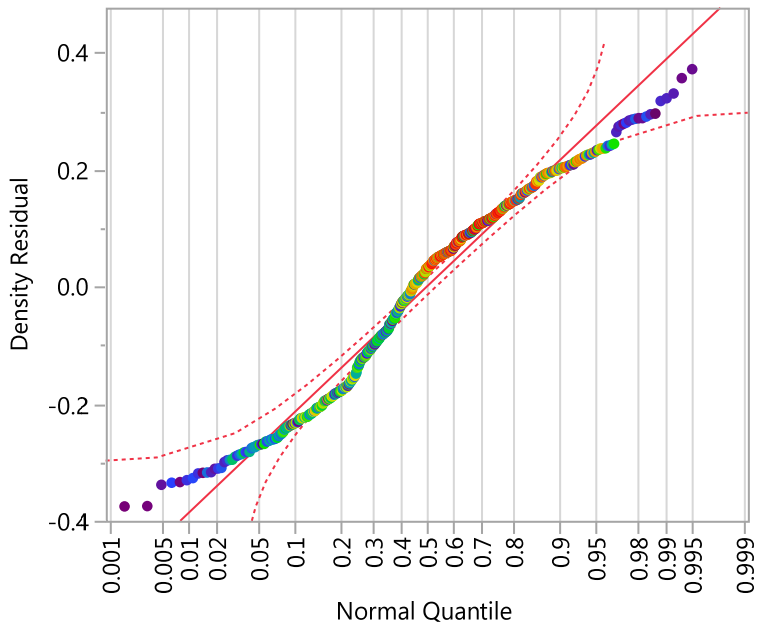
Residual by Row Plot



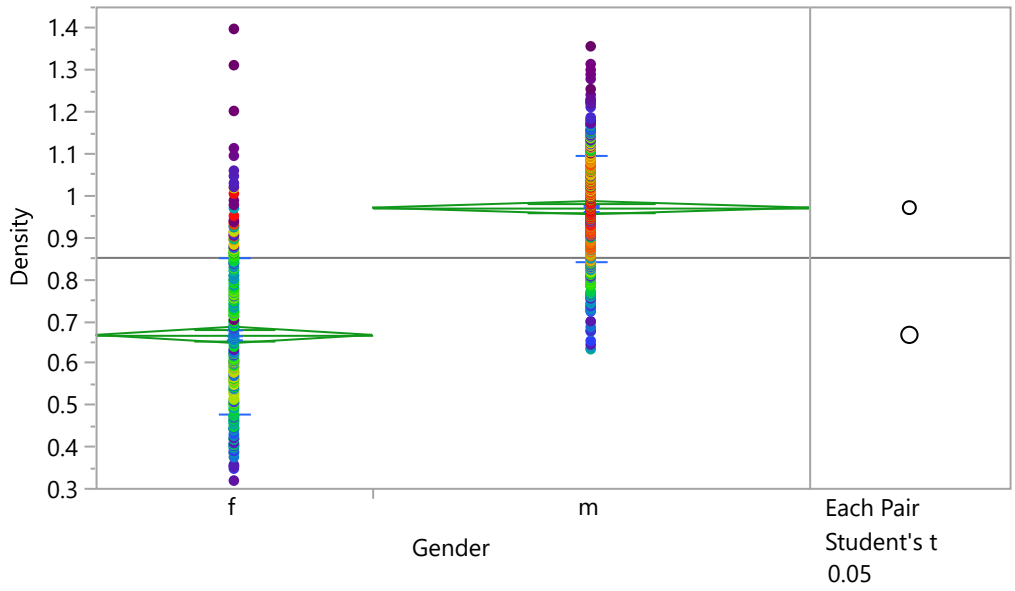
Residual by X Plot



Residual Normal Quantile Plot



Oneway Analysis of Density By Gender



Oneway Anova

Summary of Fit

Rsquare	0.483592
Adj Rsquare	0.482748
Root Mean Square Error	0.153283
Mean of Response	0.851499
Observations (or Sum Wgts)	614

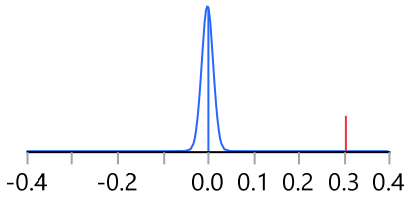
Pooled t Test

m-f

Assuming equal variances

Difference	0.303959	t Ratio	23.93969
Std Err Dif	0.012697	DF	612

Upper	CL	0.328893	Prob	>	<.0001*
Dif			|t|		
Lower	CL	0.279024	Prob > t		<.0001*
Dif					
Confidence		0.95	Prob < t		1.0000



Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Gender	1	13.465586	13.4656	573.1090	<.0001*
Error	612	14.379358	0.0235		
C. Total	613	27.844944			

Means for Oneway Anova

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
f	238	0.665361	0.00994	0.64585	0.68487
m	376	0.969320	0.00790	0.95380	0.98484

Std Error uses a pooled estimate of error variance

Means and Std Deviations

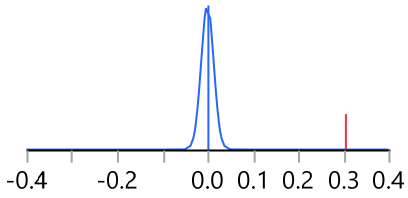
Level	Number	Mean	Std Dev	Std Err Mean	Lower 95%	Upper 95%
f	238	0.6653613	0.187628	0.0121621	0.6414017	0.689321
m	376	0.9693199	0.1268695	0.0065428	0.9564548	0.9821851

t Test

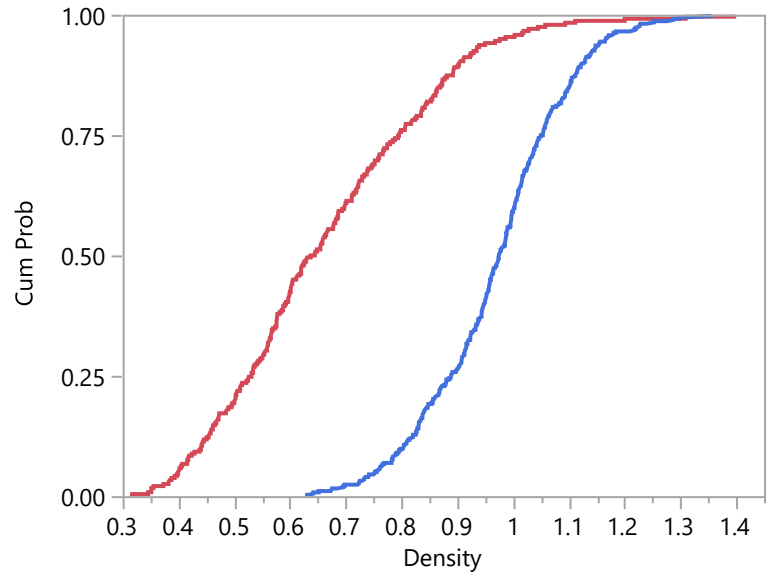
m-f

Assuming unequal variances

Difference	0.303959	t Ratio		22.00951
Std Err Dif	0.013810	DF		374.22
Upper CL Dif	0.331114	Prob > |t|		<.0001*
Lower CL Dif	0.276803	Prob > t		<.0001*
Confidence	0.95	Prob < t		1.0000

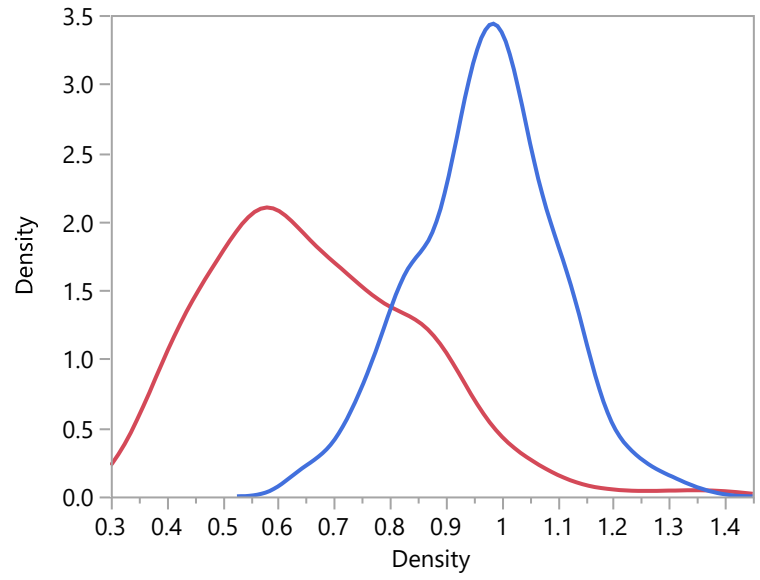


CDF Plot



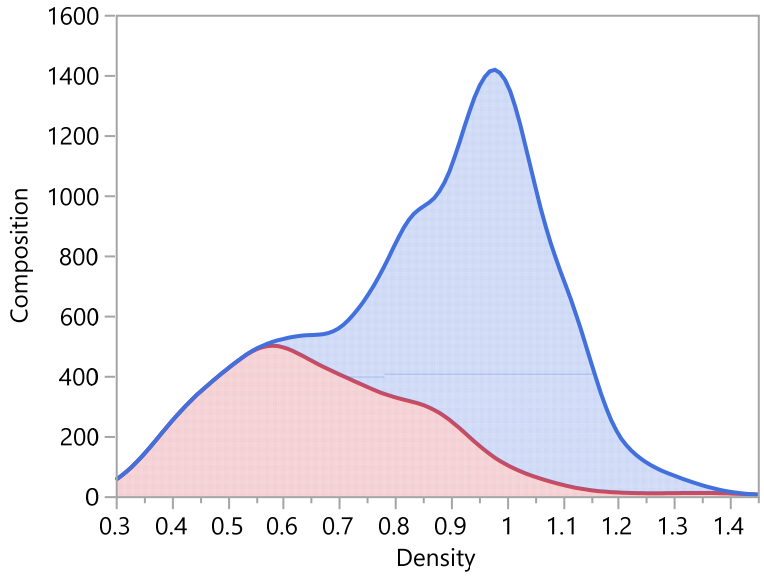
f
m

Compare Densities



f
m

Composition of Densities



Means Comparisons

Comparisons for each pair using Student's t

Confidence Quantile

t	Alpha
1.96385	0.05

Difference Matrix

Dif=Mean[i]-Mean[j]

	m	f
m	0.00000	0.30396
f	-0.30396	0.00000

LSD Threshold Matrix

Abs(Dif)-LSD

	m	f
m	-0.02195	0.27902
f	0.27902	-0.02759

Positive values show pairs of means that are significantly different.

Connecting Letters Report

Level		Mean
m	A	0.96931993
f	B	0.66536134

Levels not connected by same letter are significantly different.

Ordered Differences Report

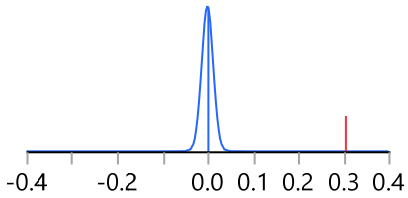
Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
m	f	0.3039586	0.0126968	0.2790239	0.3288933	<.0001*

Detailed Comparisons Report

Comparing m with f

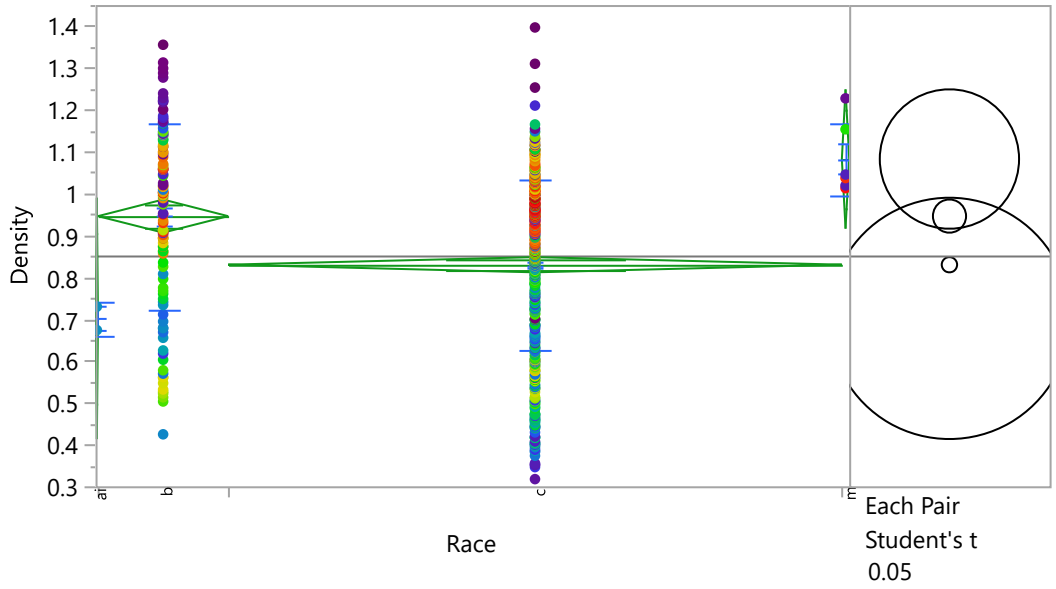
Difference	0.303959	t Ratio	23.93969
Std Err Dif	0.012697	DF	612
Upper CL Dif	0.328893	Prob > |t|	<.0001*
Lower CL Dif	0.279024	Prob > t	<.0001*

Confidence	0.95	Prob < t	1.0000



Missing Rows62

Oneway Analysis of Density By Race



Oneway Anova

Summary of Fit

Rsquare	0.055565
Adj Rsquare	0.05092
Root Mean Square Error	0.207632
Mean of Response	0.851499
Observations (or Sum Wgts)	614

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
Race	3	1.547201	0.515734	11.9629	<.0001*
Error	610	26.297743	0.043111		
C. Total	613	27.844944			

Means for Oneway Anova

Level	Mean	Std Error	Lower 95%	Upper 95%
ai	0.70124	0.14682	0.41291	0.9896
b	0.94560	0.02017	0.90600	0.9852
c	0.82938	0.00929	0.81115	0.8476
m	1.08200	0.08477	0.91553	1.2485

Std Error uses a pooled estimate of error variance

Means and Std Deviations

Level	Mean	Std Dev	Std Err Mean	Lower 95%	Upper 95%
ai	0.7012449	0.0395172	0.0279429	0.3461965	1.0562932
b	0.9456043	0.2218004	0.0215432	0.9028882	0.9883204
c	0.8293835	0.2055948	0.0091945	0.8113188	0.8474482
m	1.0820001	0.0875512	0.0357426	0.9901208	1.1738794

Means Comparisons

Comparisons for each pair using Student's t

Confidence Quantile

t	Alpha
1.96386	0.05

LSD Threshold Matrix

Abs(Dif)-LSD

	m	b	c	ai
m	-0.23542	-0.03472	0.08515	0.04782
b	-0.03472	-0.05601	0.07262	-0.04668
c	0.08515	0.07262	-0.02579	-0.16077
ai	0.04782	-0.04668	-0.16077	-0.40776

Positive values show pairs of means that are significantly different.

Levels not connected by same letter are significantly different.

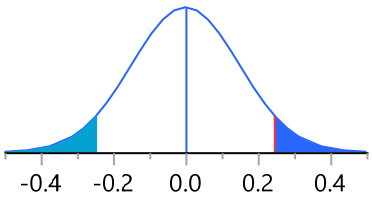
Ordered Differences Report

Level	- Level	Difference	Std Err Dif	Lower CL	Upper CL	p-Value
m	ai	0.3807553	0.1695308	0.047820	0.7136902	0.0251*
m	c	0.2526166	0.0852725	0.085153	0.4200799	0.0032*
b	ai	0.2443594	0.1481966	-0.046678	0.5353969	0.0997
m	b	0.1363958	0.0871314	-0.034718	0.3075098	0.1180
c	ai	0.1281386	0.1471114	-0.160768	0.4170448	0.3841
b	c	0.1162208	0.0222020	0.072619	0.1598225	<.0001*

Detailed Comparisons Report

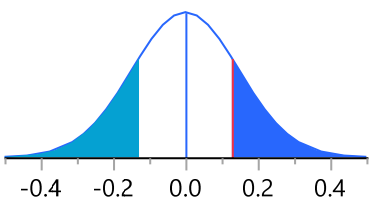
Comparing b with ai

Difference	0.24436	t Ratio		1.648887
Std Err Dif	0.14820	DF		610
Upper CL Dif	0.53540	Prob |t|	>	0.0997
Lower CL Dif	-0.04668	Prob > t		0.0498*
Confidence	0.95	Prob < t		0.9502



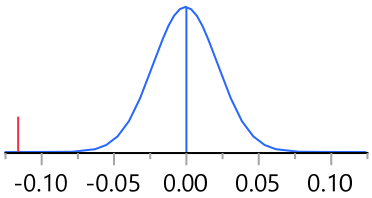
Comparing c with ai

Difference	0.12814	t Ratio		0.871032
Std Err Dif	0.14711	DF		610
Upper CL Dif	0.41704	Prob |t|	>	0.3841
Lower CL Dif	-0.16077	Prob > t		0.1920
Confidence	0.95	Prob < t		0.8080



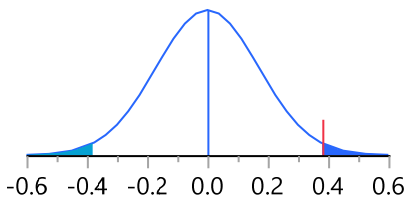
Comparing c with b

Difference	-0.11622	t Ratio	-5.23469
Std Err Dif	0.02220	DF	610
Upper CL Dif	-0.07262	Prob > |t|	<.0001*
Lower CL Dif	-0.15982	Prob > t	1.0000
Confidence	0.95	Prob < t	<.0001*



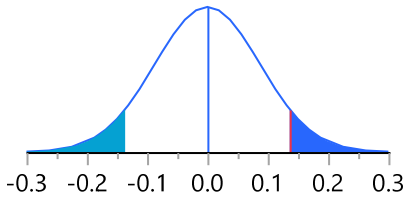
Comparing m with ai

Difference	0.380755	t Ratio	2.245935
Std Err Dif	0.169531	DF	610
Upper CL Dif	0.713690	Prob > |t|	0.0251*
Lower CL Dif	0.047820	Prob > t	0.0125*
Confidence	0.95	Prob < t	0.9875



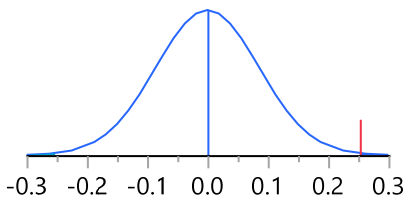
Comparing m with b

Difference	0.13640	t Ratio	1.565404
Std Err Dif	0.08713	DF	610
Upper CL Dif	0.30751	Prob > |t|	0.1180
Lower CL Dif	-0.03472	Prob > t	0.0590
Confidence	0.95	Prob < t	0.9410

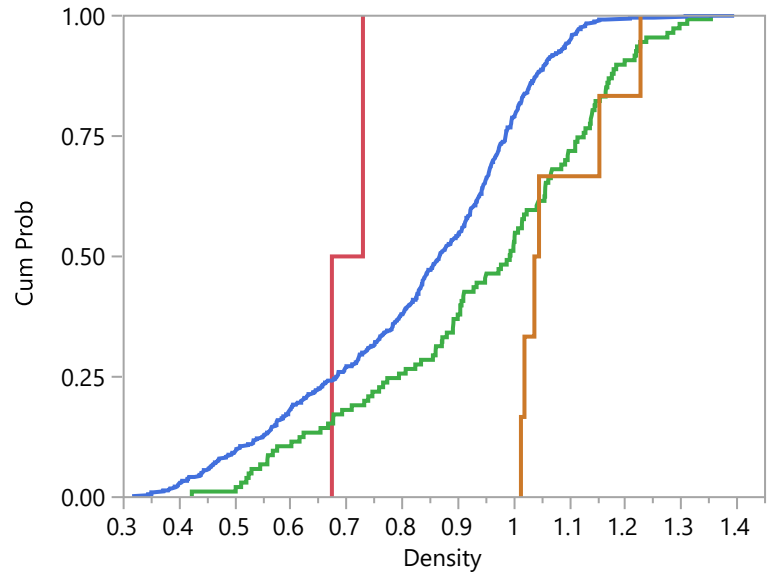


Comparing m with c

Difference	0.252617	t Ratio	2.962463
Std Err Dif	0.085272	DF	610
Upper CL Dif	0.420080	Prob > |t|	0.0032*
Lower CL Dif	0.085153	Prob > t	0.0016*
Confidence	0.95	Prob < t	0.9984

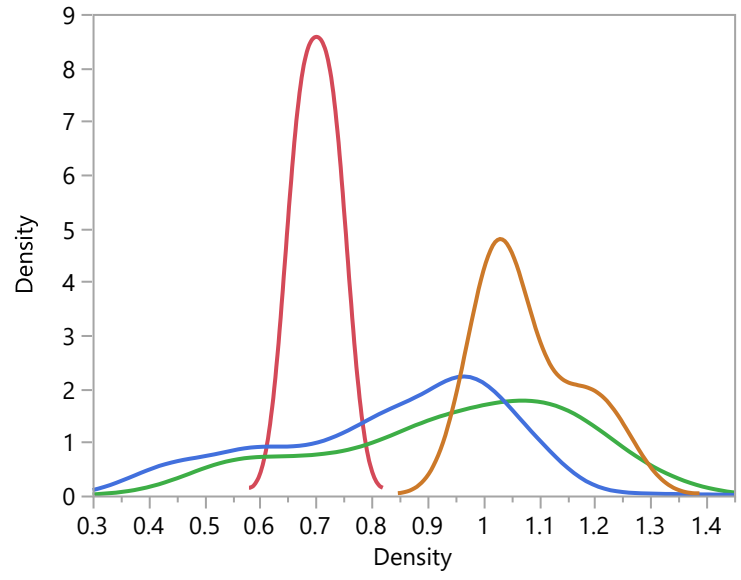


CDF Plot



ai
b
c
m

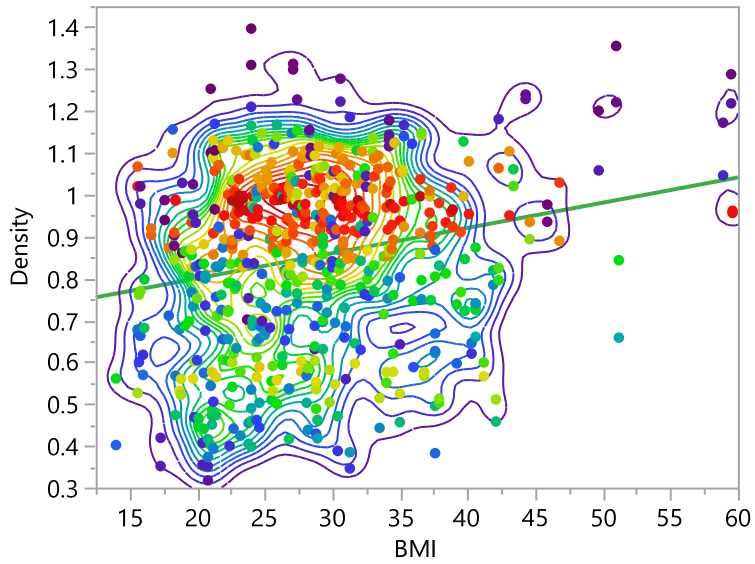
Compare Densities

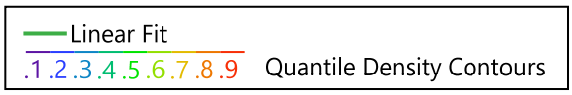


ai
b
c
m

Missing Rows62

Bivariate Fit of Density By BMI





Linear Fit

Density = 0.6791666 + 0.0060304*BMI

Summary of Fit

RSquare	0.044759
RSquare Adj	0.043198
Root Mean Square Error	0.208475
Mean of Response	0.851499
Observations (or Sum Wgts)	614

Analysis of Variance

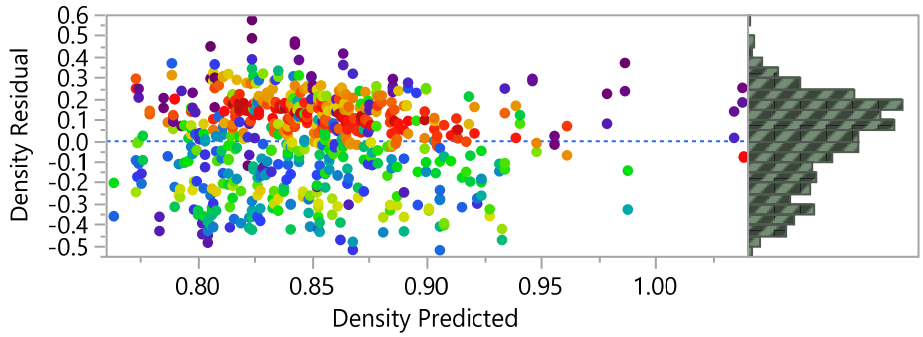
Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	1.246308	1.24631	28.6759
Error	612	26.598636	0.04346	**Prob > F**
C. Total	613	27.844944		<.0001*

Parameter Estimates

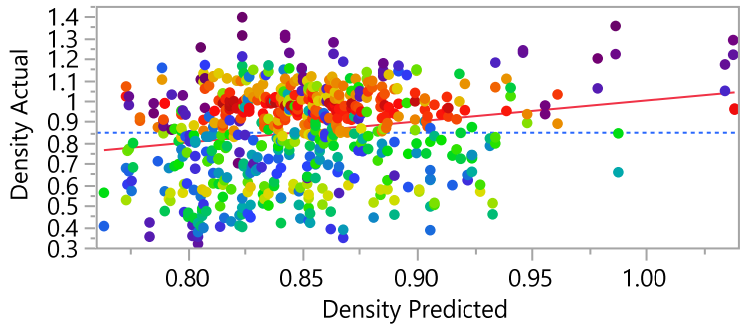
Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	0.6791666	0.033263	20.42	<.0001*
BMI	0.0060304	0.001126	5.35	<.0001*

Diagnostics Plots

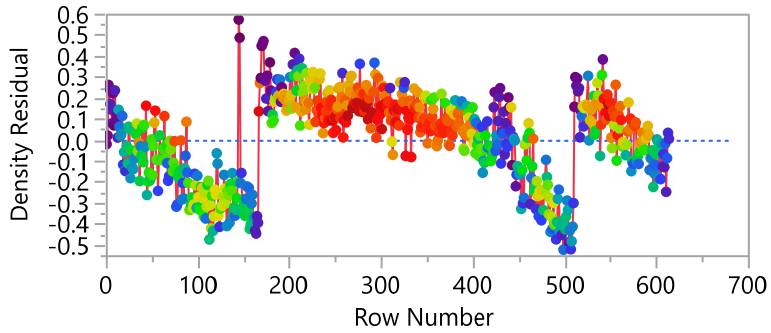
Residual by Predicted Plot



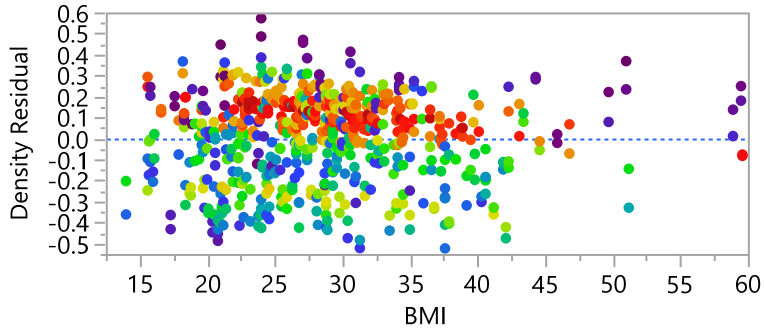
Actual by Predicted Plot



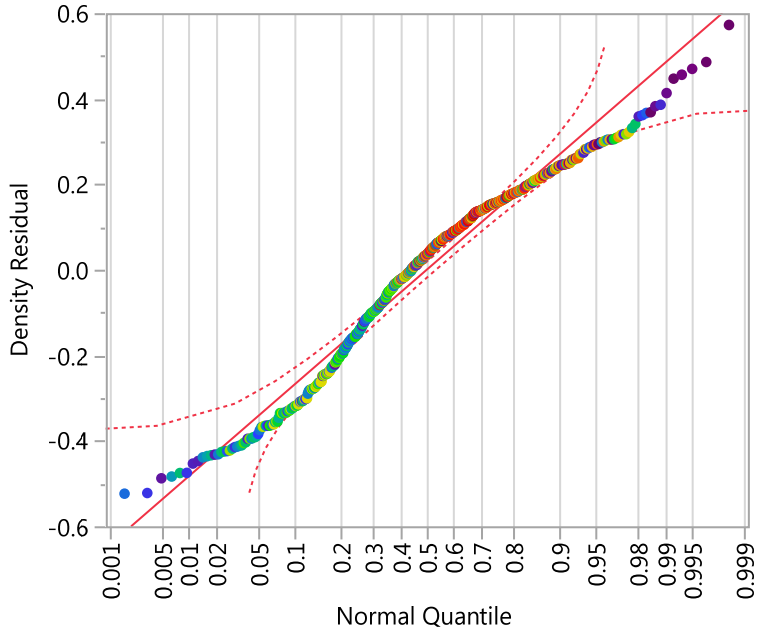
Residual by Row Plot



Residual by X Plot



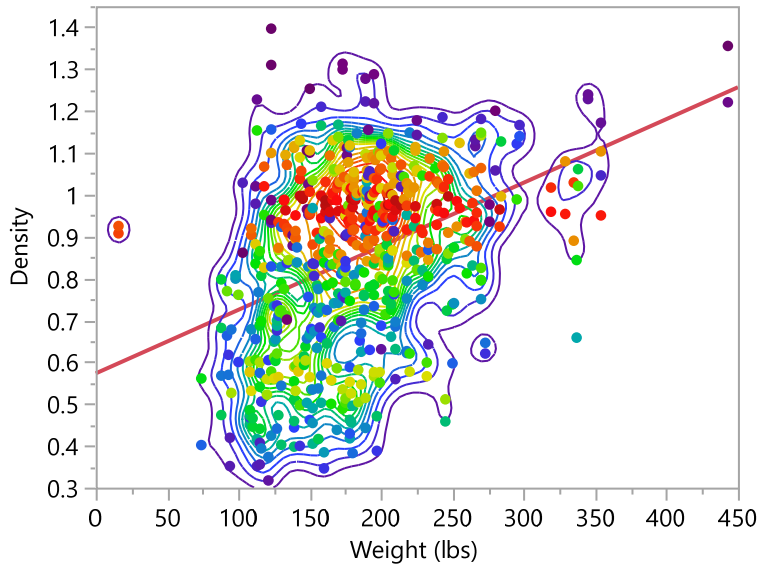
Residual Normal Quantile Plot

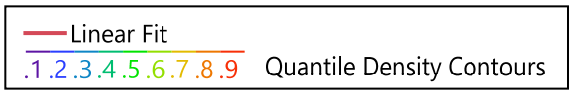


Quantile Density Contours

Variable	Kernel Std
BMI	1.282373
Density	0.036553

Bivariate Fit of Density By Weight (lbs)





Linear Fit

Density = 0.5729131 + 0.0015183*Weight (lbs)

Summary of Fit

RSquare	0.149399
RSquare Adj	0.14801
Root Mean Square Error	0.196725
Mean of Response	0.851499
Observations (or Sum Wgts)	614

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	4.160019	4.16002	107.4917
Error	612	23.684925	0.03870	**Prob > F**
C. Total	613	27.844944		<.0001*

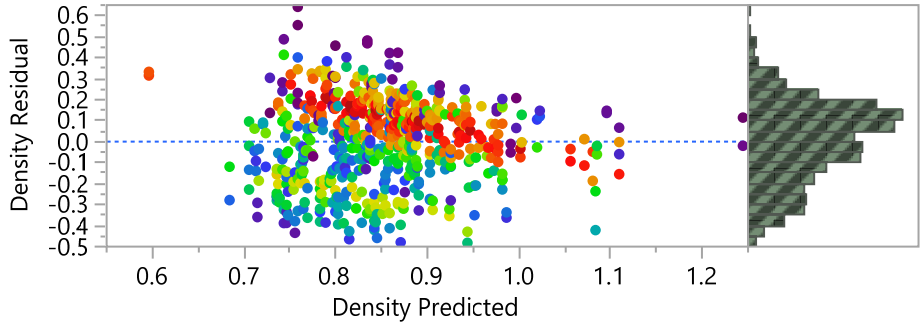
Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	0.5729131	0.028019	20.45	<.0001*

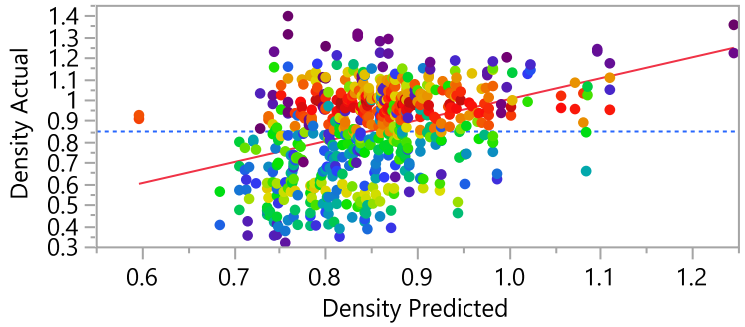
Term	Estimate	Std Error	t Ratio	Prob>|t|
Weight (lbs)	0.0015183	0.000146	10.37	<.0001*

Diagnostics Plots

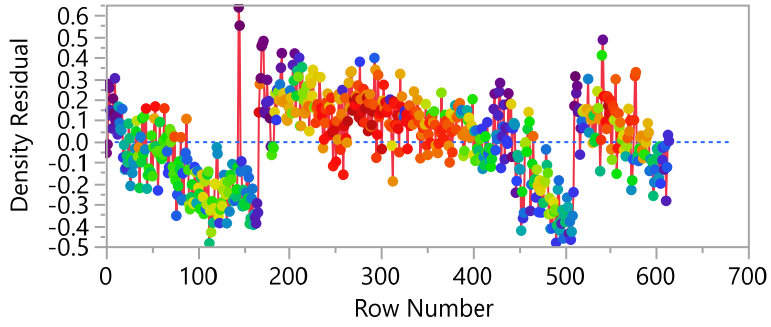
Residual by Predicted Plot



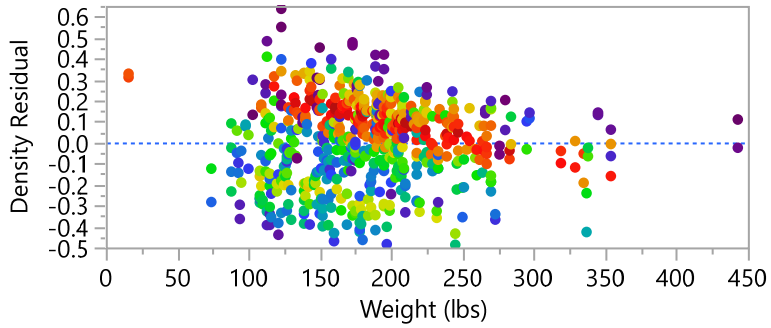
Actual by Predicted Plot



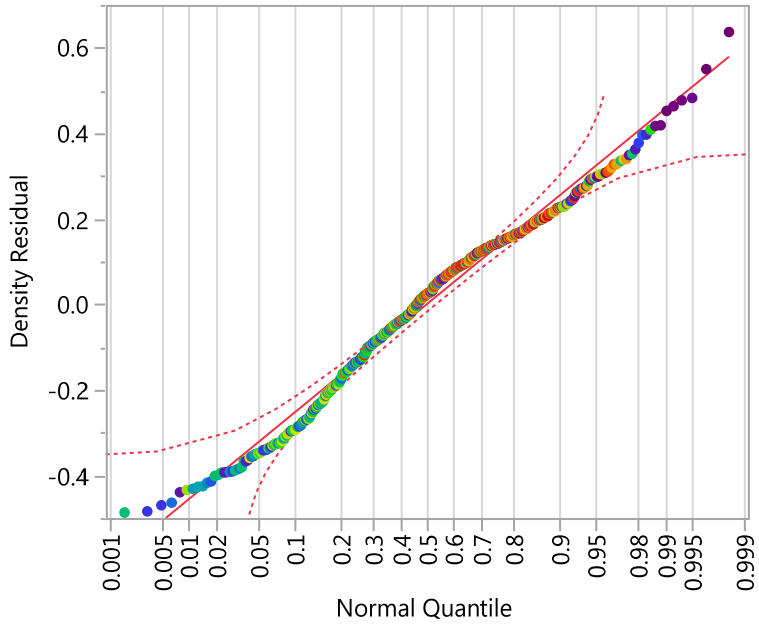
Residual by Row Plot



Residual by X Plot



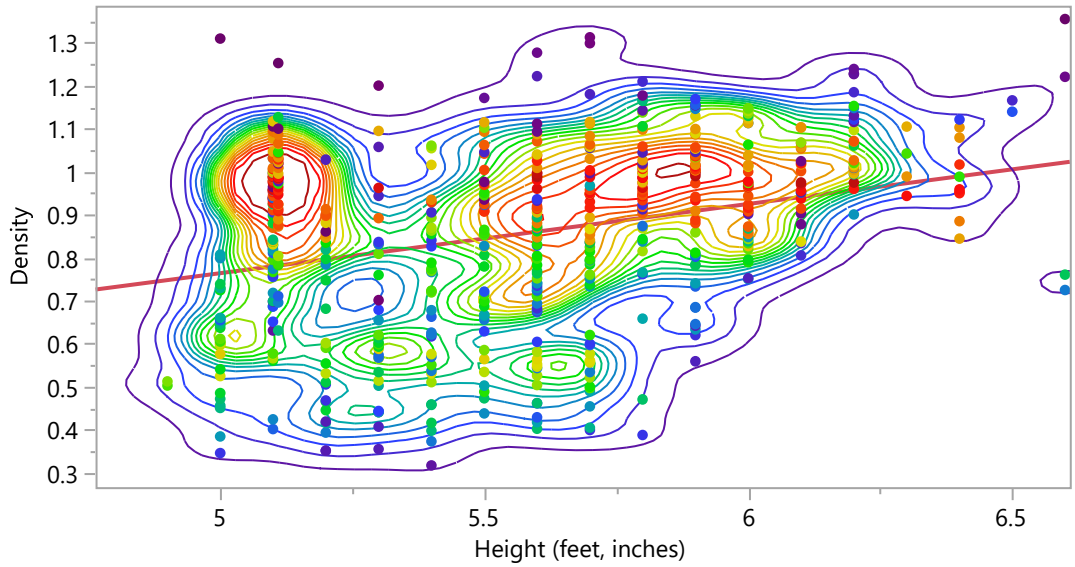
Residual Normal Quantile Plot

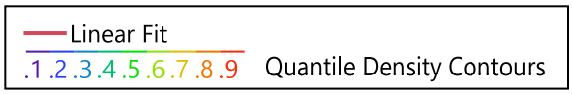


Quantile Density Contours

Variable	Kernel Std
Weight (lbs)	9.305238
Density	0.036553

Bivariate Fit of Density By Height (feet, inches)





Linear Fit

Density = -0.040764 + 0.1609694*Height (feet, inches)

Summary of Fit

RSquare	0.110172
RSquare Adj	0.108718
Root Mean Square Error	0.20121
Mean of Response	0.851499
Observations (or Sum Wgts)	614

Analysis of Variance

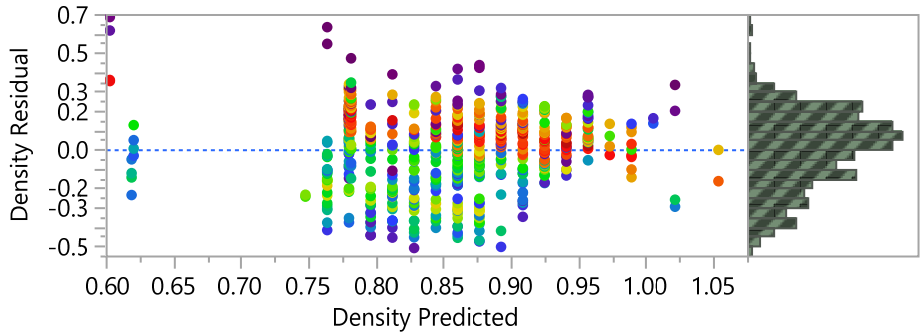
Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	3.067720	3.06772	75.7730
Error	612	24.777224	0.04049	**Prob > F**
C. Total	613	27.844944		<.0001*

Parameter Estimates

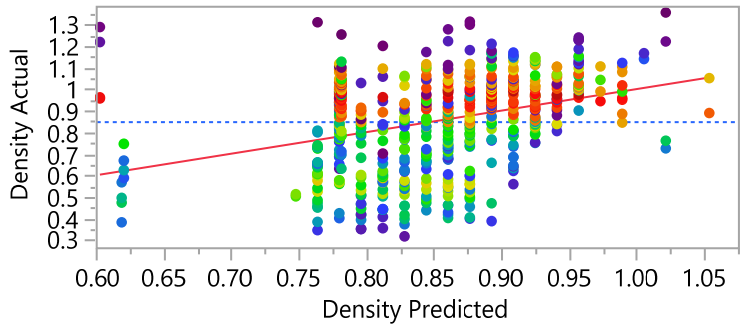
Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-0.040764	0.102824	-0.40	0.6919
Height (feet, inches)	0.1609694	0.018492	8.70	<.0001*

Diagnostics Plots

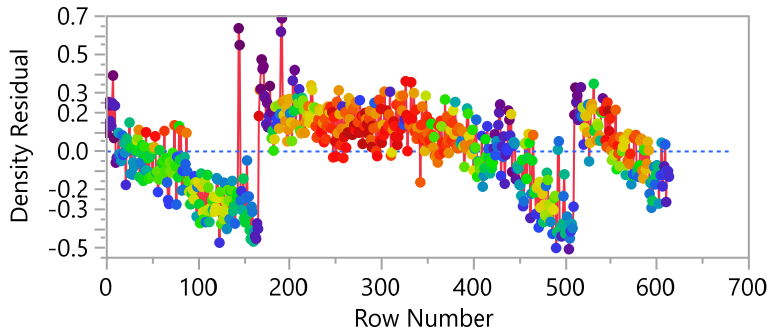
Residual by Predicted Plot



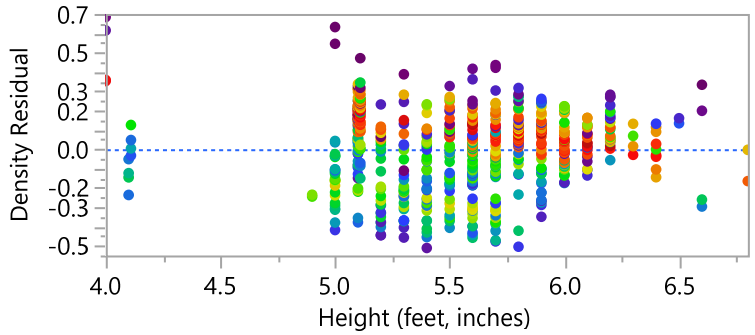
Actual by Predicted Plot



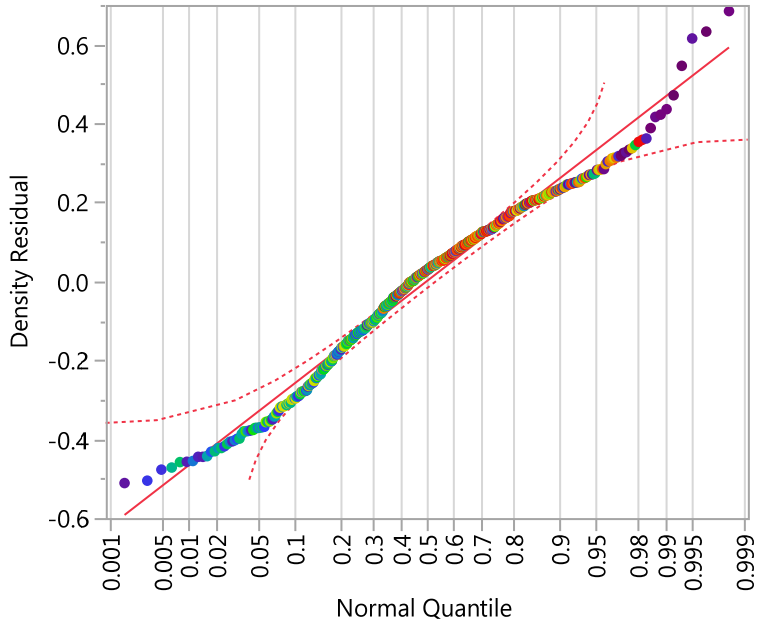
Residual by Row Plot



Residual by X Plot



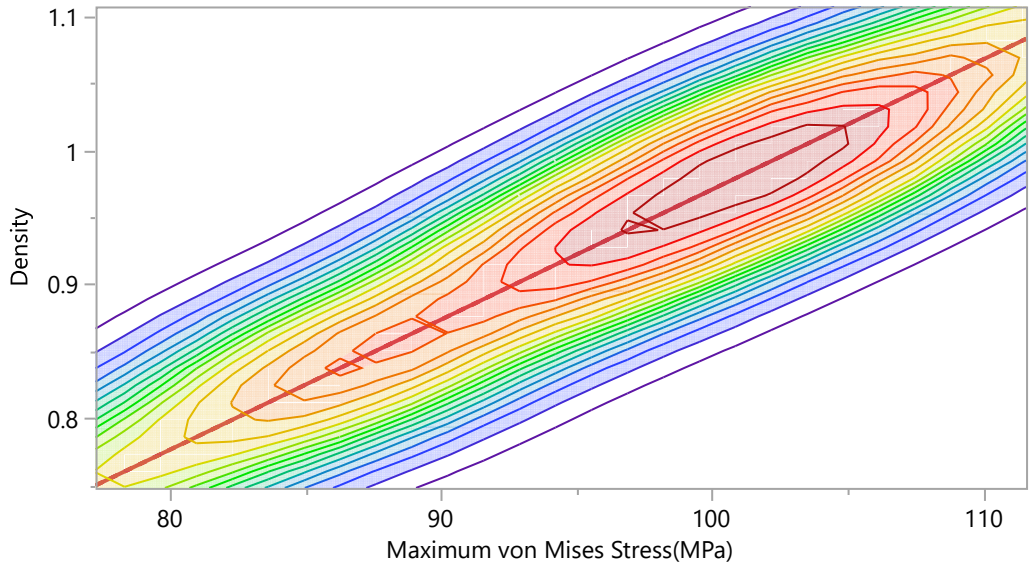
Residual Normal Quantile Plot



Quantile Density Contours

Variable	Kernel Std
Height (feet, inches)	0.075372
Density	0.036553

Bivariate Fit of Density By Maximum von Mises Stress(MPa)



Linear Fit

Density = 4.352e-11 + 0.0097057*Maximum von Mises Stress(MPa)

Summary of Fit

RSquare	1
RSquare Adj	1

Root Mean Square Error	0
Mean of Response	0.851499
Observations (or Sum Wgts)	614

Analysis of Variance

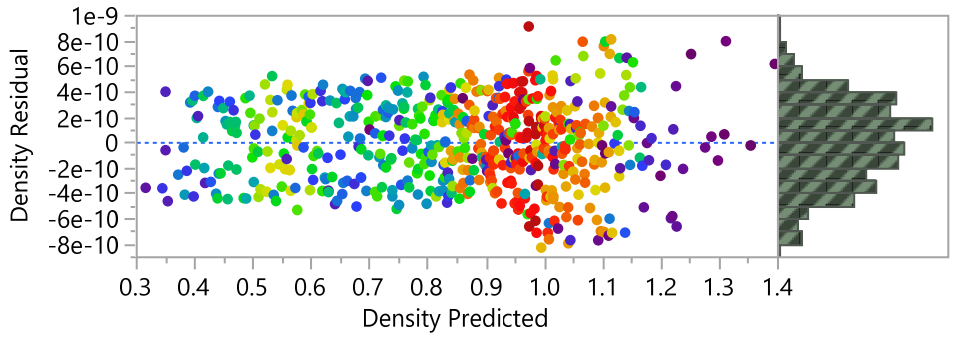
Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	27.844944	27.8449	.
Error	612	0.000000	0.0000	**Prob > F**
C. Total	613	27.844944		.

Parameter Estimates

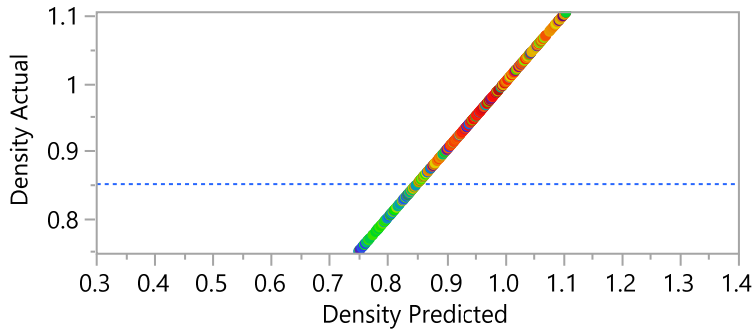
Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	4.352e-11	0	.	.
Maximum von Mises Stress(MPa)	0.0097057	0	.	.

Diagnostics Plots

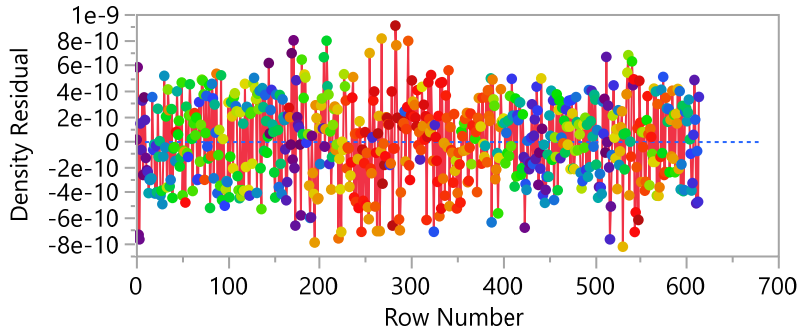
Residual by Predicted Plot



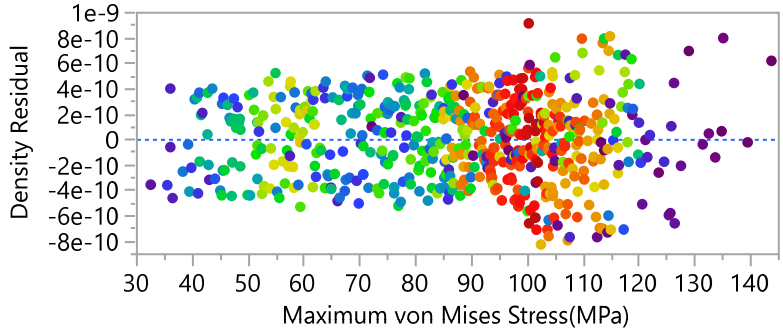
Actual by Predicted Plot



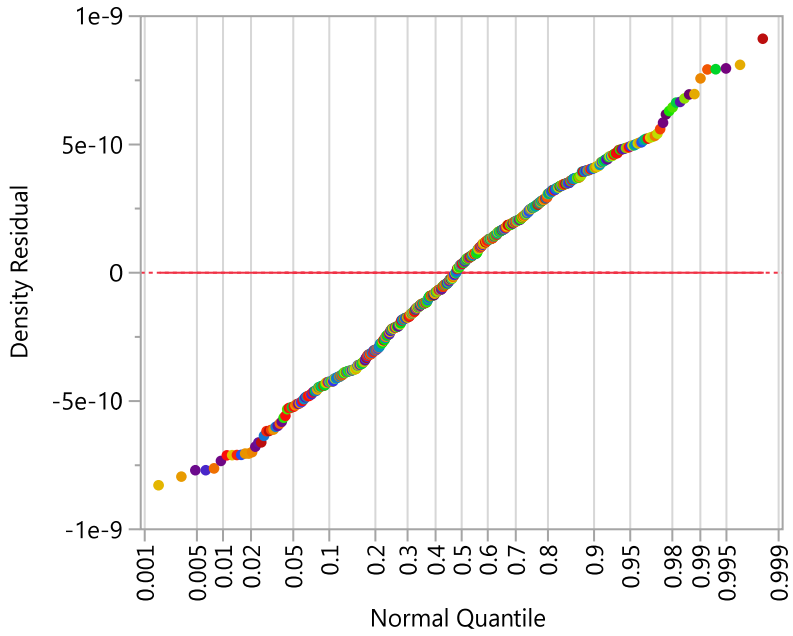
Residual by Row Plot



Residual by X Plot



Residual Normal Quantile Plot



Quantile Density Contours

Variable	Kernel Std
Maximum von Mises Stress(MPa)	3.766087
Density	0.036553