

APPENDIX 1. DATA SET

Case	Age (yrs)	Height (cm)	Weight (kg)	% Fat	REE	Code	Sex
1	23	175	79.0	10.0	1814	1	0
2	25	161	68.0	5.7	1244	1	0
3	27	160	52.0	6.0	1223	1	0
4	21	180	92.5	10.4	2150	1	0
5	27	177	97.0	19.3	1692	1	0
6	26	185	87.0	9.9	1619	1	0
7	22	173	66.5	9.0	1150	1	0
8	31	168	65.0	7.9	1067	1	0
9	23	185	108.0	14.6	1787	1	0
10	29	182	87.5	9.7	1735	1	0
11	26	167	72.0	9.0	1070	1	0
12	23	174	78.0	7.5	1375	1	0
13	25	177	85.0	12.6	1535	1	0
14	23	169	70.5	13.0	1270	1	0
15	18	170	63.5	7.5	1540	1	0
16	18	178	96.0	17.0	1633	1	0
17	18	173	71.4	15.0	1408	1	0
18	18	163	57.0	10.0	1350	1	0
19	16	169	73.0	16.5	1249	1	0
20	18	172	67.0	8.7	1584	1	0
21	25	174	82.6	12.5	1838	1	0
22	23	167	80.0	16.1	1631	1	0
23	27	175	125.0	43.0	1773	1	0
24	26	170	78.0	11.3	1726	1	0
25	21	187	85.4	17.0	1714	1	0
26	24	178	79.0	16.4	1407	1	0
27	26	188	130.0	18.0	2135	1	0
28	26	176	123.0	46.0	2021	1	0
29	23	183	97.0	13.7	1533	1	0
30	18	179	63.0	14.0	1320	1	0
31	18	172	65.0	9.1	1517	1	0
32	25	176	67.0	8.0	1166	1	0
33	19	195	104.0	22.0	1926	1	0
34	16	178	90.0	18.0	2035	1	0
35	17	176	64.0	6.7	1977	1	0
36	18	158	50.0	10.0	1489	1	0
37	18	182	71.0	8.1	1508	1	0
38	14	165	57.0	11.0	1413	1	0
39	21	173	91.5	10.0	1925	1	0
40	19	174	64.0	8.0	1717	1	0
41	24	169	64.0	4.6	1499	1	0
42	20	182	100.0	21.0	2205	1	0
43	20	184	105.0	16.0	2411	1	0
44	16	160	55.0	7.0	1442	1	0

45	24	171	88.0	9.0	1695	1	0
46	27	175	100.0	17.0	1994	1	0
47	29	181	114.0	22.0	2695	1	0
48	33	162	76.0	13.0	1657	1	0
49	30	175	123.0	27.0	2148	1	0
50	29	150	56.0	7.0	1370	1	0
51	28	176	83.0	13.0	1759	1	0
52	21	173	85.0	7.0	1983	1	0
53	19	158	62.0	9.0	1515	1	0
54	23	173	105.0	22.0	2045	1	0
55	30	163	79.0	11.0	1853	1	0
56	19	175	68.0	10.0	1450	2	1
57	19	173	86.0	19.0	1560	2	1
58	18	165	86.0	26.0	1703	2	1
59	22	171	68.0	22.0	1080	2	1
60	24	171	73.0	18.0	1498	2	1
61	16	167	62.0	21.0	1033	2	1
62	20	181	90.0	25.0	1536	2	1
63	19	167	87.0	25.0	1737	2	1
64	30	164	81.0	23.0	1032	2	1
65	19	176	92.0	24.0	1400	2	1
66	23	159	60.0	17.0	1127	2	1
67	18	164	60.0	15.0	1233	2	1
68	16	173	82.0	22.0	1524	2	1
69	22	164	59.0	14.0	1432	2	1
70	19	167	56.0	16.0	1055	2	1
71	22	170	64.0	17.0	1693	2	1
72	18	170	90.0	18.0	1670	2	1
73	28	169	88.0	28.0	1760	2	1
74	16	162	43.0	11.5	1048	4	1
75	14	149	36.0	9.5	760	4	1
76	13	145	30.0	10.0	600	4	1
77	12	140	28.0	13.0	590	4	1
78	15	146	37.0	10.0	1077	4	1
79	13	135	30.0	8.0	1120	4	1
80	14	148	40.0	13.0	1110	4	1
81	16	153	42.5	13.5	1200	4	1
82	13	164	44.5	14.0	1089	4	1
83	14	162	46.0	13.5	1176	4	1
84	13	156	38.0	14.0	1176	4	1
85	13	152	38.0	11.5	1032	4	1
86	13	154	40.0	11.5	1230	4	1
87	12	154	42.0	12.0	1161	4	1
88	12	146	33.0	9.0	1071	4	1
89	12	146	33.0	10.0	1001	4	1
90	11	145	33.0	10.5	1038	4	1
91	12	150	36.0	10.0	1011	4	1
92	13	150	39.0	11.0	1334	4	1
93	14	166	53.5	14.5	1136	4	1
94	13	162	43.5	13.5	1296	4	1

95	13	157	36.0	8.5	1089	4	1
96	14	162	43.0	13.0	1161	4	1
97	12	156	42.0	10.0	1198	4	1
98	13	159	49.0	16.0	1308	4	1
99	14	166	50.0	15.0	1359	4	1
100	14	166	50.0	15.0	1320	4	1
101	14	168	54.0	16.0	1181	4	1
102	17	167	53.0	12.0	1247	4	1
103	15	167	48.0	16.0	1017	4	1
104	12	155	37.5	15.0	1136	4	1
105	21	178	61.0	16.0	1284	4	1
106	19	165	58.0	21.0	1100	4	1
107	22	169	59.0	18.0	1114	4	1
108	25	157	50.0	17.0	1000	4	1
109	23	170	58.0	19.0	1150	4	1
110	22	160	51.0	16.0	950	4	1
111	22	172	61.0	17.3	1394	4	1
112	14	155	41.0	15.0	1000	4	1
113	14	149	34.5	9.0	1048	4	1
114	12	147	35.0	12.0	1001	4	1
115	15	160	47.3	17.0	1385	4	1
116	16	165	54.5	22.0	950	4	1
117	17	165	52.0	17.5	1104	4	1
118	13	153	35.7	14.0	950	4	1
119	19	165	50.2	14.0	1032	4	1
120	25	170	56.0	5.4	1036	5	0
121	26	175	61.0	6.0	1234	5	0
122	19	174	64.0	9.7	1393	5	0
123	26	181	77.0	8.5	1625	5	0
124	33	174	68.0	12.0	1554	5	0
125	28	174	67.0	9.3	1496	5	0
126	24	170	64.0	12.0	1480	5	0
127	24	175	67.0	10.0	1408	5	0
128	27	174	64.5	5.3	1368	5	0
129	21	170	65.5	14.8	1479	5	0
130	18	190	84.5	15.2	1645	5	0
131	27	182	68.0	6.4	1447	5	0
132	35	175	71.0	16.0	1512	5	0
133	39	173	70.0	13.4	1440	5	0
134	30	168	62.0	9.0	1361	5	0
135	17	178	58.5	6.8	1515	5	0
136	19	166	60.0	9.7	1225	5	0
137	17	170	61.0	8.8	1200	5	0
138	18	171	60.0	9.5	1409	5	0
139	21	176	68.0	9.4	1628	5	0
140	24	173	73.0	7.4	1576	5	0
141	24	178	72.0	8.5	1805	5	0
142	23	172	69.0	9.0	1420	5	0
143	27	174	62.0	7.2	1396	5	0
144	25	168	54.5	7.5	1270	5	0

145	34	179	68.0	9.5	1771	5	0
146	19	176	67.5	6.5	1566	5	0
147	19	183	71.5	9.1	1426	5	0
148	37	171	62.0	5.8	1307	5	0
149	18	191	64.0	7.5	1595	5	0
150	40	182	74.0	8.5	1980	5	0
151	21	181	73.0	7.8	1636	5	0
152	18	179	64.0	9.0	1320	5	0
153	20	178	64.0	7.1	1310	5	0
154	28	169	66.0	8.0	1742	5	0
155	22	168	59.0	5.2	1473	5	0
156	28	178	73.0	15.0	1631	5	0
157	23	187	70.0	10.1	1725	5	0
158	20	176	70.0	8.5	1735	5	0
159	33	188	83.0	5.9	2030	5	0
160	18	161	52.0	16.0	1100	6	1
161	23	155	56.0	20.0	1057	6	1
162	24	172	53.0	19.0	961	6	1
163	19	160	53.0	20.0	1028	6	1
164	19	170	55.0	15.0	1392	6	1
165	21	170	58.0	20.0	1272	6	1
166	28	169	52.0	17.0	1214	6	1
167	20	163	50.0	15.0	1233	6	1
168	25	153	44.0	14.0	1000	6	1
169	25	154	48.0	14.0	1120	6	1
170	25	160	51.0	14.0	1224	6	1
171	26	167	50.0	14.0	998	6	1
172	24	159	62.0	18.0	1458	6	1
173	21	169	60.0	21.0	1200	6	1
174	21	160	56.0	19.0	1350	6	1
175	28	163	62.0	17.0	1386	6	1
176	19	156	59.0	18.0	1085	6	1
177	23	173	57.0	15.0	1247	6	1
178	20	167	54.0	14.0	1067	6	1
179	18	163	47.0	18.5	1235	6	1
180	25	169	54.0	15.0	1090	6	1
181	18	167	51.0	15.0	1088	6	1
182	19	169	56.0	18.0	1121	6	1
183	24	199	88.8	8.3	2115	7	0
184	26	194	79.0	16.0	1538	7	0
185	27	186	82.0	10.7	1673	7	0
186	21	200	88.0	9.9	1688	7	0
187	27	193	87.0	11.9	2134	7	0
188	29	185	87.0	7.4	2020	7	0
189	21	201	100.0	8.6	2144	7	0
190	21	201	88.0	8.2	1806	7	0
191	22	204	92.0	8.1	1984	7	0
192	23	187	74.4	17.5	1481	7	0
193	23	191	79.7	12.3	1691	7	0
194	21	198	93.0	9.2	1716	7	0

195	26	192	84.5	8.7	1706	7	0
196	15	172	60.0	19.0	1400	9	0
197	18	187	81.0	15.0	1825	9	0
198	23	182	79.9	22.0	1555	9	0
199	18	190	86.0	15.5	2384	9	0
200	15	176	66.5	12.0	1427	9	0
201	16	169	62.5	21.0	1673	9	0
202	16	180	71.0	15.0	1652	9	0
203	17	177	77.5	22.0	1599	9	0
204	16	186	100.0	19.0	2525	9	0
205	21	171	69.0	8.7	1705	9	0
206	16	175	72.0	16.0	1790	9	0
207	17	176	66.0	17.0	1608	9	0
208	16	180	76.0	16.0	2539	9	0
209	17	184	86.5	15.0	2131	9	0
210	18	190	78.0	17.0	1838	9	0
211	18	182	71.0	20.0	1898	9	0
212	17	181	69.0	6.5	1472	9	0
213	17	180	69.0	12.0	1644	9	0
214	16	162	60.0	13.2	1366	9	0
215	16	181	75.0	16.2	1928	9	0
216	16	179	69.0	16.0	1850	9	0
217	16	182	67.0	14.5	1812	9	0
218	15	182	70.0	9.9	1505	9	0
219	22	177	73.0	17.5	1769	9	0
220	15	182	72.0	12.7	1865	9	0
221	17	178	75.0	25.0	1986	9	0
222	17	176	71.6	12.0	1850	9	0
223	20	183	81.1	20.0	1770	9	0
224	16	169	66.9	18.0	1730	9	0
225	19	177	71.0	26.0	1543	9	0
226	17	173	68.9	25.0	1926	9	0
227	14	184	79.5	22.0	1826	9	0
228	16	180	68.0	15.0	1761	9	0
229	17	173	65.0	16.5	1473	9	0
230	16	172	57.5	15.0	1433	9	0
231	15	170	63.5	17.0	1467	10	1
232	18	167	65.0	23.0	1402	10	1
233	17	169	67.5	23.0	1369	10	1
234	16	170	63.0	23.8	1431	10	1
235	16	169	56.0	21.0	1435	10	1
236	16	168	58.0	20.0	1269	10	1
237	17	167	65.0	21.0	1385	10	1
238	24	174	75.0	27.0	1207	10	1
239	16	171	61.0	26.0	1320	10	1
240	16	159	54.0	22.0	1333	10	1
241	18	166	57.0	18.0	1243	10	1
242	16	168	57.0	16.0	1407	10	1
243	17	169	62.0	22.0	1233	10	1
244	18	166	62.0	23.0	1028	10	1

245	16	155	54.0	22.0	1050	10	1
246	15	151	54.0	22.0	1048	10	1
247	15	150	45.0	17.0	1037	10	1
248	15	175	65.0	15.0	1250	10	1
249	15	155	52.0	23.0	1045	10	1
250	19	160	58.0	20.0	1200	10	1
251	16	164	49.0	16.0	1266	10	1
252	15	163	49.5	19.0	1464	10	1
253	15	168	56.5	16.0	1256	10	1
254	16	178	60.5	20.0	1417	10	1
255	18	167	53.0	19.0	1415	10	1
256	16	163	51.0	20.0	1324	10	1
257	17	179	65.0	20.0	1332	10	1
258	15	164	53.0	20.0	1334	10	1
259	16	162	63.0	23.0	1440	10	1
260	16	172	64.5	23.0	910	10	1
261	15	169	57.0	17.0	1333	10	1
262	17	174	64.5	17.0	1505	10	1
263	13	173	65.0	22.0	1229	10	1
264	14	177	67.0	17.0	1315	10	1
265	12	155	51.0	18.0	1348	10	1
266	16	169	59.0	10.1	1636	11	0
267	17	178	63.0	9.1	1741	11	0
268	20	182	74.5	7.0	1597	11	0
269	23	189	84.5	5.6	1793	11	0
270	15	173	63.7	15.0	1790	11	0
271	18	178	65.0	9.1	1680	11	0
272	18	192	65.8	7.0	1590	11	0
273	18	186	77.0	7.5	2199	11	0
274	17	183	72.5	9.5	1850	11	0
275	26	181	74.0	9.5	1722	11	0
276	21	172	60.5	7.2	1171	11	0
277	23	185	71.5	8.5	1324	11	0
278	19	175	66.0	7.4	1424	11	0
279	21	175	65.0	11.0	1557	11	0
280	20	184	65.0	7.1	1248	11	0
281	21	140	73.0	7.0	1480	11	0
282	26	184	73.0	6.6	1562	11	0
283	22	180	62.0	9.0	1171	11	0
284	17	180	66.5	15.0	1484	11	0
285	17	180	63.0	7.2	1677	11	0
286	18	186	79.5	11.6	1600	11	0
287	21	180	84.5	15.6	1599	11	0
288	21	189	78.0	6.6	2025	11	0
289	19	174	75.0	17.0	1787	11	0
290	18	178	65.0	9.1	1690	11	0
291	17	183	72.5	7.3	1850	11	0
292	19	174	64.0	9.7	1394	11	0
293	17	176	64.0	6.7	1977	11	0
294	15	178	68.5	17.0	1616	11	0

295	18	180	68.0	7.1	1600	11	0
296	23	178	70.0	14.9	1570	11	0
297	24	172	65.0	6.5	1750	11	0
298	21	167	55.5	6.8	1450	11	0
299	26	173	70.0	7.3	1595	11	0
300	23	171	64.0	5.8	1700	11	0
301	21	168	63.0	7.2	1680	11	0
302	20	170	72.0	5.7	1715	11	0
303	18	193	85.0	5.7	2068	11	0
304	21	170	66.0	10.3	1515	11	0
305	23	173	73.0	13.5	1596	11	0
306	21	187	80.0	6.3	2317	11	0
307	19	189	79.5	7.3	1971	11	0
308	23	190	75.0	5.7	1684	11	0
309	27	178	80.0	9.0	1843	11	0
310	16	172	63.0	7.2	1789	11	0
311	19	171	58.0	14.0	1280	12	1
312	23	173	60.0	19.0	989	12	1
313	21	172	61.0	16.0	1117	12	1
314	19	168	56.0	14.0	1392	12	1
315	17	169	56.0	17.0	1377	12	1
316	18	173	61.0	16.0	1305	12	1
317	17	169	54.0	15.0	1361	12	1
318	19	173	58.0	16.0	1100	12	1
319	20	175	67.0	15.0	1177	12	1
320	22	170	64.0	19.0	1193	12	1
321	31	176	61.0	18.0	1000	12	1
322	19	171	60.0	17.0	995	12	1
323	23	165	63.0	15.0	1469	12	1
324	21	176	66.0	16.0	1344	12	1
325	19	168	61.0	16.0	1073	12	1
326	16	176	62.0	18.0	1115	12	1
327	24	167	58.0	15.0	1180	12	1
328	17	159	58.0	18.0	1185	12	1
329	23	168	60.0	15.0	1237	12	1
330	18	172	61.0	18.0	1044	12	1
331	22	170	64.0	17.0	1193	12	1
332	18	173	58.0	16.0	1208	12	1
333	21	168	51.0	17.0	1016	12	1
334	17	170	58.0	15.0	1032	12	1
335	17	170	64.0	17.0	950	12	1
336	19	172	57.0	20.0	1142	12	1
337	22	171	65.0	22.0	1268	12	1
338	25	168	66.0	20.0	1519	12	1
339	24	169	54.0	16.0	1600	12	1
340	16	171	57.0	18.0	1100	12	1
341	17	178	62.0	15.3	1181	12	1
342	18	168	61.0	23.0	1036	12	1
343	17	169	62.0	20.0	981	12	1
344	15	168	45.0	16.0	1433	12	1

345	20	177	60.0	15.0	1032	12	1
346	18	175	60.0	17.0	1160	12	1
347	21	168	51.0	17.0	1016	12	1
348	17	170	58.0	15.0	1032	12	1
349	29	160	55.0	19.0	1100	12	1
350	22	163	62.0	22.0	1240	12	1
351	29	169	62.0	17.0	1114	12	1
352	18	153	53.0	25.0	1100	12	1
353	22	159	44.0	12.0	1187	12	1
354	19	178	63.0	16.0	1026	12	1
355	18	177	64.0	19.0	1264	12	1
356	17	164	56.0	20.0	1130	12	1
357	18	180	67.5	16.2	1439	12	1
358	18	167	59.0	16.9	982	12	1
359	19	170	65.0	16.0	1260	12	1
360	19	169	58.0	16.0	1000	12	1
361	23	156	51.0	15.1	858	12	1
362	19	165	55.0	20.0	1226	12	1
363	18	162	58.0	17.7	1750	12	1
364	23	172	58.0	17.0	1370	12	1
365	17	173	60.0	16.4	1458	12	1
366	25	163	70.0	23.0	1282	12	1
367	19	168	55.0	22.0	1350	12	1
368	16	158	53.0	17.0	1443	12	1
369	16	174	60.0	16.0	1478	12	1
370	19	168	61.0	15.0	1458	12	1
371	17	171	67.0	16.0	1452	12	1
372	20	188	92.0	18.0	2310	13	0
373	23	187	106.0	23.0	2281	13	0
374	20	184	95.0	20.0	1900	13	0
375	23	176	88.0	14.0	1940	13	0
376	26	196	87.0	17.0	2123	13	0
377	21	187	84.0	14.0	1894	13	0
378	20	182	77.0	10.0	1800	13	0
379	22	186	82.0	12.0	1900	13	0
380	20	173	98.0	21.0	1801	13	0
381	22	185	88.0	14.0	2139	13	0
382	20	176	66.0	12.0	1719	13	0
383	21	202	112.0	13.2	2089	15	0
384	22	204	98.0	14.5	1724	15	0
385	27	202	97.0	11.0	2023	15	0
386	23	192	84.0	10.0	1742	15	0
387	25	206	103.0	12.0	2174	15	0
388	20	200	91.0	15.0	2025	15	0
389	21	191	80.0	13.0	1815	15	0
390	24	200	97.0	10.0	1900	15	0
391	19	206	93.0	12.5	2100	15	0
392	17	187	73.0	14.5	1737	15	0
393	19	202	99.5	20.0	2096	15	0
394	20	196	92.5	17.0	1520	15	0

395	18	195	84.0	14.5	2179	15	0
396	20	179	62.5	8.0	1423	15	0
397	24	177	73.0	9.0	1640	15	0
398	18	186	75.5	10.0	1630	15	0
399	25	189	79.0	11.0	1760	15	0
400	22	197	90.0	6.0	1800	15	0
401	36	197	87.0	8.0	1704	15	0
402	23	186	73.5	8.0	1908	15	0
403	21	190	80.0	9.0	1917	15	0
404	22	195	82.0	10.0	1931	15	0
405	16	180	68.0	11.7	1584	15	0
406	16	183	62.5	8.0	1800	15	0
407	18	199	90.0	11.0	2020	15	0
408	17	185	77.0	8.0	2191	15	0
409	21	184	86.0	13.0	1955	15	0
410	29	202	102.0	13.0	2330	15	0
411	26	211	95.0	12.0	2179	15	0
412	27	213	123.0	27.0	2338	15	0
413	14	178	90.0	27.0	1728	15	0
414	19	175	67.5	18.7	1421	16	1
415	18	182	70.0	18.2	1438	16	1
416	19	185	76.5	23.0	1489	16	1
417	19	189	78.0	21.0	1384	16	1
418	18	186	75.0	20.0	1489	16	1
419	25	174	62.0	19.0	1480	16	1
420	22	169	54.0	15.0	1401	16	1
421	18	178	62.0	17.0	1200	16	1
422	18	170	67.0	21.0	1360	16	1
423	17	192	75.0	18.0	1520	16	1
424	16	174	70.0	17.0	1433	16	1
425	17	181	70.0	16.0	1338	16	1
426	18	175	71.0	18.0	1200	16	1
427	17	189	74.5	21.0	1307	16	1
428	16	170	68.5	18.0	1345	16	1
429	21	182	83.0	21.0	1557	16	1
430	24	168	64.0	17.0	1550	16	1
431	21	166	64.0	17.0	1450	16	1
432	17	168	70.0	22.0	1506	16	1
433	18	197	101.8	25.0	2006	17	0
434	19	198	93.0	15.0	1980	17	0
435	24	193	97.0	14.2	1900	17	0
436	21	188	89.0	16.2	1961	17	0
437	19	195	89.0	13.6	2080	17	0
438	30	182	84.0	9.5	2009	17	0
439	23	188	88.0	10.6	2097	17	0
440	23	194	85.0	10.0	2034	17	0
441	22	179	77.0	10.5	1945	17	0
442	19	187	78.5	8.5	1761	17	0
443	19	188	81.0	10.6	1833	17	0
444	20	185	89.0	13.5	1853	17	0

445	24	187	97.5	18.0	2089	17	0
446	19	199	102.0	8.5	2350	17	0
447	22	187	84.0	11.5	2007	17	0
448	34	183	86.0	9.8	1959	17	0
449	23	181	74.0	8.2	1986	17	0
450	28	186	97.0	16.5	2223	17	0
451	23	199	96.0	16.0	2459	17	0
452	25	163	63.0	21.5	1262	18	1
453	19	182	98.0	23.5	1451	18	1
454	18	172	70.0	19.3	1380	18	1
455	25	187	99.0	23.0	1947	18	1
456	24	172	67.0	19.7	1503	18	1
457	29	173	77.0	22.2	1717	18	1
458	23	177	75.0	16.4	1628	18	1
459	29	169	69.0	22.0	1535	18	1
460	19	170	62.0	12.3	1211	19	0
461	16	165	53.5	14.0	1460	19	0
462	16	171	55.5	10.0	1512	19	0
463	22	179	77.0	9.5	1331	19	0
464	14	143	36.5	8.0	1136	19	0
465	14	152	40.0	17.0	1073	19	0
466	21	153	53.0	21.0	1168	20	1
467	16	154	47.0	12.0	1105	20	1
468	14	162	60.0	24.0	1208	20	1
469	14	161	52.0	17.5	1191	20	1
470	19	177	67.0	7.6	1582	21	0
471	23	174	73.5	7.7	1524	21	0
472	19	173	74.0	8.5	1720	21	0
473	26	178	89.0	9.8	1970	21	0
474	31	182	74.6	5.8	1850	21	0
475	28	175	69.8	8.0	1833	21	0
476	25	173	65.5	7.2	1800	21	0
477	27	170	67.5	7.6	1780	21	0
478	26	183	67.0	7.2	1798	21	0
479	21	179	73.5	9.4	1617	21	0
480	20	178	69.0	8.0	1479	21	0
481	20	182	74.5	7.0	1597	21	0
482	18	186	77.0	7.5	2199	21	0
483	24	183	106.5	30.0	2129	23	0
484	25	183	97.0	19.6	1952	23	0
485	17	184	92.5	25.0	2051	23	0