

SUPPLEMENTARY INFORMATION

The Usage of an SNP-SNP Relationship Matrix for Best Linear Unbiased Prediction (BLUP) Analysis Using a Community Based-Cohort Study

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Supplementary Table 1. This table shows the predicted genetic values of the 1st–500th human individuals according to the BLUP methods

ID	Height	Sex	G-BLUP	SNP-BLUP	SNP-GBLUP
1	156	2	1.648225	0.911914	1.648219
2	170.5	1	1.483278	0.517589	1.483253
3	158.1	2	2.633289	1.538064	2.633256
4	157	2	2.68686	1.768591	2.68684
5	145.5	2	-4.0131	-4.092	-4.01308
6	161.9	2	4.469241	3.264376	4.469209
7	151.5	2	-0.87395	-1.28892	-0.87394
8	178	1	5.852538	4.40246	5.852492
9	158.3	2	2.504963	1.669991	2.504954
10	153.5	1	-6.7398	-6.38447	-6.73975
11	156	2	1.666214	0.745763	1.666191
12	174	1	3.948101	2.843941	3.948075
13	167.4	1	0.540129	0.040505	0.540138
14	156.1	2	1.46345	0.696352	1.46344
15	154	2	0.561605	-0.20975	0.561589
16	143.6	2	-5.29632	-5.15257	-5.29628
17	162.1	2	4.577998	3.353439	4.577965
18	153	2	0.157351	-0.33828	0.157358
19	159.7	2	3.193719	2.180766	3.193697
20	147.5	2	-3.39569	-3.38528	-3.39565
21	159	1	-4.56443	-4.61144	-4.56441
22	165.8	1	-0.81186	-1.23908	-0.81185
23	172	1	3.11896	2.130818	3.118938
24	171.5	1	2.717489	1.7975	2.717472
25	157	2	1.609231	0.8463	1.609225
26	145.4	2	-4.91548	-4.92232	-4.91545
27	164	1	-0.72305	-1.09665	-0.72304
28	155.4	1	-5.93336	-5.70991	-5.93332
29	162.1	2	4.770904	3.433848	4.77086
30	155.3	2	1.315899	0.686963	1.315901
31	175.3	1	4.465203	3.322152	4.465176
32	159.7	2	3.825022	2.804944	3.825001
33	175	1	4.696189	3.519737	4.696158
34	151.3	2	-1.21501	-1.65395	-1.215
35	157.1	2	2.2699	1.415556	2.269886
36	164.7	1	-0.91886	-1.32805	-0.91885
37	157.2	1	-5.21908	-5.01209	-5.21904
38	153.3	2	0.424467	-0.21125	0.424463
39	172.6	1	2.67969	1.77551	2.679677
40	168	1	0.902939	0.232925	0.902934
41	166.5	1	-0.53252	-1.12386	-0.53252
42	148.1	2	-2.87264	-2.95374	-2.87261
43	156.5	2	1.940328	1.190233	1.940322
44	151.2	2	-0.96373	-1.50465	-0.96373
45	161	2	3.697817	2.604254	3.697792
46	151.4	2	-0.7596	-1.27732	-0.7596
47	171	1	2.718487	1.759407	2.718465
48	150.5	2	-1.68384	-2.10578	-1.68383
49	149.8	2	-2.13181	-2.2962	-2.13178
50	143.4	2	-5.64759	-5.5306	-5.64755
51	153.7	2	-0.01213	-0.54869	-0.01213
52	143	2	-5.58965	-5.37865	-5.58961
53	160.5	2	3.823257	2.661133	3.823224
54	161.5	1	-2.77593	-3.10262	-2.77592

55	156.2	2	1.853024	1.139107	1.85302
56	157.6	2	2.481937	1.621284	2.481923
57	153.6	2	0.603728	0.009288	0.603728
58	158.1	1	-4.75155	-4.60879	-4.75151
59	164	1	-1.06255	-1.54722	-1.06255
60	155.3	2	0.741485	0.076272	0.741483
61	161.3	1	-3.42907	-3.4961	-3.42904
62	153.7	2	0.235959	-0.33259	0.235961
63	167.5	1	1.049864	0.559384	1.049875
64	169.8	1	1.457058	0.553441	1.457036
65	148.7	2	-2.08196	-2.25848	-2.08194
66	159	2	3.079868	2.134459	3.079851
67	156.5	2	2.14288	1.354854	2.142871
68	161.2	2	4.197379	2.999474	4.197345
69	150.7	2	-1.24236	-1.5771	-1.24234
70	144.1	2	-4.82955	-4.7417	-4.82952
71	170.5	1	2.478672	1.532989	2.47865
72	143.9	2	-4.83551	-4.69078	-4.83547
73	162.1	1	-2.68528	-2.90017	-2.68526
74	168.7	1	0.867356	0.202253	0.867353
75	163.5	1	-1.97596	-2.33965	-1.97595
76	166.7	1	0.262647	-0.43814	0.262636
77	162.3	1	-2.43418	-2.63089	-2.43416
78	152	2	-0.73522	-1.1746	-0.73521
79	174	1	4.031545	2.889675	4.031515
80	161.3	1	-2.51316	-2.68538	-2.51314
81	174.3	1	4.684569	3.437582	4.684531
82	152.4	2	-0.37384	-0.88098	-0.37384
83	149.7	2	-1.75384	-2.07037	-1.75383
84	178	1	6.297644	4.772501	6.297591
85	151.7	2	-0.56044	-1.17721	-0.56045
86	151.8	2	-1.52793	-1.96813	-1.52792
87	155.8	2	1.17772	0.352444	1.177704
88	151.2	2	-1.81747	-2.23493	-1.81746
89	155.5	2	1.104521	0.24053	1.1045
90	155.5	2	1.195699	0.599555	1.195704
91	159	2	3.162393	2.196274	3.162374
92	169.7	1	1.770943	1.039084	1.770938
93	157.3	2	2.192378	1.318343	2.192362
94	162.4	1	-2.25873	-2.5394	-2.25872
95	142.3	2	-5.83334	-5.52658	-5.83329
96	169	1	1.3331	0.586473	1.333092
97	167.5	1	0.753709	-0.01283	0.753695
98	148.4	2	-2.39626	-2.50467	-2.39623
99	170	1	1.668907	0.71477	1.668882
100	159.1	1	-4.35754	-4.45365	-4.35752
101	169.8	1	1.636599	0.709242	1.636576
102	162.4	1	-2.25217	-2.65795	-2.25217
103	155	2	0.589171	-0.10548	0.589166
104	165.5	1	-0.57955	-1.14322	-0.57956
105	153.6	2	0.365411	-0.21342	0.365412
106	167	1	0.132613	-0.5045	0.13261
107	166.2	1	-0.3814	-1.0355	-0.38141
108	170.6	1	1.873956	0.849028	1.873927
109	154.5	2	1.156963	0.446707	1.156955
110	171.5	1	2.639819	1.739018	2.639804
111	152.5	2	0.189303	-0.27963	0.189312
112	163.2	1	-1.61148	-1.92131	-1.61146
113	151.8	1	-8.16028	-7.58278	-8.16022

114	160.9	1	-2.7429	-2.86855	-2.74288
115	147.1	2	-3.28821	-3.49192	-3.2882
116	152.2	2	-0.52713	-1.01073	-0.52712
117	160.1	1	-3.52159	-3.54675	-3.52156
118	150.3	2	-1.53108	-1.89218	-1.53107
119	159.6	2	3.635851	2.591734	3.635827
120	167.7	1	0.556583	-0.05005	0.556584
121	152.4	2	0.178577	-0.2899	0.178585
122	153.2	2	0.476605	0.114499	0.476625
123	157	2	2.163644	1.194935	2.16362
124	173.6	1	4.145044	3.05061	4.145018
125	164.4	2	5.946954	4.591624	5.946916
126	172.6	1	2.796781	1.901681	2.79677
127	152	2	-0.55857	-0.98957	-0.55856
128	166.6	1	-0.03768	-0.60562	-0.03768
129	146	2	-3.48392	-3.40062	-3.48388
130	171.5	1	3.019043	2.105309	3.019027
131	157.4	2	2.082726	1.309903	2.08272
132	162	1	-2.05861	-2.28573	-2.05859
133	155	2	0.733918	-0.02271	0.733906
134	150.5	2	-1.36689	-1.82157	-1.36689
135	166.8	1	0.201221	-0.33595	0.201226
136	148.5	2	-2.30485	-2.60331	-2.30484
137	158	2	2.718002	1.795369	2.717984
138	159	2	2.897797	1.90762	2.897777
139	155.5	1	-6.26199	-6.04955	-6.26195
140	165.6	1	-0.39556	-0.80361	-0.39555
141	153	2	-0.12607	-0.65894	-0.12607
142	156.4	2	2.009163	1.114046	2.009143
143	146.4	2	-3.58266	-3.74977	-3.58265
144	151.4	2	-0.88551	-1.32084	-0.8855
145	150.4	2	-1.75981	-2.18111	-1.7598
146	153	2	-0.52029	-1.13607	-0.52029
147	152.7	2	-0.82352	-1.3174	-0.82352
148	153.8	2	0.703866	0.059825	0.703862
149	176.8	1	5.528773	4.244465	5.528738
150	155.5	2	1.076708	0.298719	1.076696
151	165.2	1	-0.70008	-1.24376	-0.70009
152	147.4	2	-3.41642	-3.60599	-3.4164
153	169	1	1.426961	0.677236	1.426952
154	155.7	2	1.041675	0.269633	1.041664
155	168.2	1	0.503087	-0.10453	0.503088
156	154.2	2	0.592467	-0.05075	0.592464
157	152	2	-0.88884	-1.31429	-0.88883
158	167.3	1	-0.24803	-0.77386	-0.24802
159	154.5	2	0.881897	0.218414	0.881893
160	150.7	2	-1.24736	-1.67592	-1.24736
161	156	2	1.494157	0.739841	1.494149
162	150.5	2	-0.87842	-1.19627	-0.87841
163	144.3	2	-4.60704	-4.55571	-4.60701
164	167.4	1	0.239568	-0.51171	0.239553
165	169	1	1.477411	0.714231	1.477401
166	158.5	2	3.131008	2.126399	3.130984
167	155.2	2	1.302868	0.629414	1.302865
168	156.3	2	1.546261	0.726776	1.546248
169	144.3	2	-4.86245	-4.76223	-4.86241
170	162.6	1	-2.39023	-2.49469	-2.3902
171	166.7	1	0.167726	-0.3985	0.167728
172	167	1	-0.24105	-0.90292	-0.24106

173	159	2	2.999917	2.010582	2.999896
174	170	1	1.923262	1.02786	1.923243
175	161.4	2	4.120059	3.032094	4.120037
176	152.4	2	-0.12634	-0.8127	-0.12635
177	150.7	2	-1.41454	-1.89169	-1.41454
178	163.6	1	-2.05984	-2.3955	-2.05983
179	152.5	2	-0.82233	-1.29179	-0.82232
180	158	2	2.204964	1.225943	2.204941
181	157.2	1	-4.92659	-4.84254	-4.92656
182	149.1	2	-1.94904	-2.09275	-1.94902
183	149.8	2	-2.09558	-2.39151	-2.09557
184	171.8	1	2.602954	1.660004	2.602935
185	149.4	2	-2.43833	-2.76019	-2.43832
186	159.9	1	-3.99287	-4.07168	-3.99285
187	171	1	2.518163	1.608648	2.518146
188	176.5	1	6.114438	4.887652	6.114408
189	174	1	3.862523	2.671025	3.862488
190	146.6	2	-3.49647	-3.53052	-3.49644
191	146.4	2	-3.48486	-3.54508	-3.48484
192	167.5	1	0.235142	-0.35187	0.235144
193	150.4	2	-1.04371	-1.52852	-1.04371
194	147.8	2	-3.14007	-3.12452	-3.14003
195	172.1	1	2.792406	1.888137	2.792392
196	149.7	2	-1.73759	-2.10479	-1.73758
197	161.5	1	-3.05826	-3.36983	-3.05825
198	145.3	2	-3.64215	-3.70815	-3.64212
199	162.9	1	-2.62561	-2.84375	-2.62559
200	160.8	1	-3.07315	-3.31335	-3.07314
201	180.7	1	7.646515	6.036575	7.646462
202	148.2	2	-2.3705	-2.64909	-2.37049
203	176.4	1	4.925204	3.661513	4.92517
204	155	2	0.771588	0.127203	0.771586
205	157.2	2	2.581802	1.843124	2.581799
206	147	2	-3.13873	-3.23445	-3.1387
207	147	2	-3.02814	-3.25354	-3.02813
208	152	2	-0.15705	-0.7259	-0.15706
209	167.4	1	0.074944	-0.45267	0.07495
210	150.8	2	-1.4134	-1.76529	-1.41339
211	144.2	2	-4.9173	-4.90306	-4.91727
212	155	2	1.171376	0.459578	1.171369
213	150.8	2	-1.12278	-1.46111	-1.12277
214	161.3	2	3.965331	2.83374	3.965304
215	154.4	2	0.662717	-0.01295	0.662712
216	168.3	1	0.89915	0.221764	0.899146
217	163.8	1	-1.29085	-1.52488	-1.29082
218	173.6	1	3.662438	2.660597	3.66242
219	145.9	2	-4.4453	-4.45754	-4.44527
220	156.7	2	1.867084	1.044949	1.867072
221	169.8	1	2.207816	1.287456	2.207795
222	169.2	1	1.587858	0.793235	1.587846
223	157.7	2	2.474273	1.615779	2.47426
224	175.3	1	4.791534	3.545106	4.791498
225	160.9	1	-2.91466	-3.15005	-2.91465
226	175	1	4.539959	3.304831	4.539925
227	166.3	1	0.111295	-0.50797	0.11129
228	168.3	1	1.186721	0.4017	1.186707
229	176.4	1	5.140129	3.778427	5.140086
230	160.3	1	-3.27654	-3.37785	-3.27651
231	142.7	2	-5.34997	-5.27488	-5.34994

232	170	1	1.49008	0.705441	1.490071
233	175	2	11.26498	9.239577	11.26491
234	166.5	1	0.226622	-0.43034	0.226613
235	143.9	2	-4.44818	-4.3239	-4.44814
236	158.6	2	2.608506	1.552778	2.608477
237	173.5	1	3.961231	2.84583	3.961202
238	148.1	2	-3.26681	-3.4153	-3.26679
239	168	1	0.441184	-0.20119	0.441181
240	163.7	1	-2.05383	-2.58399	-2.05384
241	159.6	2	3.484747	2.348555	3.484715
242	161.8	2	4.417522	3.16038	4.417483
243	177.6	1	6.020901	4.692959	6.020864
244	144.9	2	-4.76049	-4.61803	-4.76045
245	169.4	1	1.753323	1.022795	1.753317
246	162.3	1	-2.49606	-2.71308	-2.49604
247	171.6	1	2.899902	2.018672	2.899889
248	161.6	2	3.643632	2.348103	3.64359
249	156.1	2	1.807686	1.084277	1.807681
250	158	2	2.595792	1.683066	2.595776
251	156	1	-5.59223	-5.50652	-5.5922
252	147.1	2	-3.85597	-3.86058	-3.85594
253	158.7	1	-3.44123	-3.56901	-3.44121
254	157.5	1	-5.43115	-5.30203	-5.43111
255	151.4	2	-1.24234	-1.6977	-1.24233
256	143.5	2	-4.99218	-4.84501	-4.99214
257	162.6	1	-1.8732	-2.19651	-1.87319
258	150.7	2	-1.32725	-1.70844	-1.32724
259	146.8	2	-3.44858	-3.52752	-3.44856
260	158	2	2.670811	1.671585	2.670786
261	172.5	1	2.816878	1.839653	2.816858
262	147.2	2	-3.08525	-3.20877	-3.08522
263	155.1	2	1.294592	0.624728	1.29459
264	163	1	-2.19531	-2.72898	-2.19531
265	157.4	2	2.350307	1.525808	2.350297
266	149.2	2	-2.26363	-2.65188	-2.26362
267	150.5	2	-1.98867	-2.24567	-1.98865
268	157.5	2	2.329674	1.518586	2.329665
269	152.7	2	-0.52208	-1.0416	-0.52207
270	161.2	2	3.716367	2.45128	3.716326
271	147.2	2	-3.16472	-3.36662	-3.1647
272	143.3	2	-5.36866	-5.22851	-5.36863
273	157	2	1.931982	1.036619	1.931963
274	162.2	2	4.79353	3.496054	4.79349
275	168.9	1	1.236126	0.525038	1.236121
276	164.7	1	-1.11006	-1.55247	-1.11005
277	153	1	-7.34037	-6.80926	-7.34031
278	154.6	2	1.0261	0.256062	1.026086
279	161	2	4.227423	3.045573	4.22739
280	158.1	2	2.647277	1.643621	2.647252
281	147.6	2	-2.65492	-2.62475	-2.65488
282	150	2	-1.24558	-1.59235	-1.24557
283	170.1	1	1.7788	1.071129	1.778798
284	167.2	1	0.367338	-0.24627	0.367337
285	162.2	2	5.326683	3.975125	5.326639
286	153.8	2	-0.06692	-0.69159	-0.06693
287	170	1	1.82036	0.98153	1.820346
288	168.8	1	1.082337	0.256734	1.08232
289	166.5	1	0.068065	-0.52752	0.068064
290	164.2	1	-2.06188	-2.36767	-2.06187

291	151.7	2	-0.79666	-1.34921	-0.79666
292	159.6	1	-4.09042	-4.17578	-4.0904
293	159.8	2	3.981896	2.893748	3.981869
294	141.1	2	-7.01479	-6.64449	-7.01473
295	162	2	5.273828	4.012275	5.273791
296	152.9	2	-0.42632	-1.01131	-0.42633
297	163.3	1	-1.52292	-1.85876	-1.52291
298	161.1	2	3.958195	2.793298	3.958164
299	164	2	5.693828	4.412553	5.693795
300	159	2	2.673237	1.675487	2.673215
301	168.4	1	1.043407	0.273079	1.043395
302	155.6	2	1.311675	0.581959	1.311668
303	168.6	1	0.891536	0.300149	0.89154
304	172.3	1	2.979658	1.926378	2.979631
305	155	2	1.829658	1.149241	1.829655
306	144	2	-4.98837	-4.76508	-4.98833
307	149.2	2	-1.75632	-2.09253	-1.75631
308	157.4	2	1.818922	0.85617	1.818898
309	153.4	2	-0.21389	-0.69822	-0.21388
310	155.3	2	1.168732	0.368725	1.168717
311	151	2	-1.48444	-1.83016	-1.48442
312	162.5	1	-2.43669	-2.59189	-2.43666
313	161	2	3.964014	2.808224	3.963984
314	159	1	-3.73266	-3.85261	-3.73264
315	173.9	1	4.249157	3.012836	4.249119
316	175.8	1	4.916761	3.728853	4.916732
317	161.1	2	4.129907	3.058912	4.129884
318	156.3	2	1.686946	0.872035	1.686933
319	148.9	2	-2.45689	-2.74386	-2.45688
320	157.3	2	2.041359	1.183737	2.041345
321	163.9	1	-1.49311	-1.95271	-1.49311
322	158.7	1	-4.71932	-4.73334	-4.71929
323	167.3	1	0.251413	-0.33884	0.251414
324	173.5	1	4.103992	2.91322	4.103956
325	166.1	1	-0.99634	-1.52475	-0.99634
326	156.8	2	2.029271	1.212993	2.02926
327	154.5	2	0.52136	-0.07871	0.521361
328	167.1	1	0.676316	0.024125	0.676311
329	154.5	2	1.152656	0.386641	1.152643
330	170.2	1	1.348445	0.529256	1.348432
331	160	1	-3.13699	-3.30522	-3.13697
332	161.5	1	-2.41451	-2.56518	-2.41449
333	157.7	2	2.06094	1.240899	2.060931
334	157.1	2	1.607725	0.779626	1.607713
335	160	2	3.306839	2.138173	3.306804
336	143	2	-5.66294	-5.51733	-5.66291
337	154.2	2	0.488811	-0.13818	0.488809
338	149	2	-2.39723	-2.62249	-2.39721
339	153.3	2	0.313428	-0.32092	0.313423
340	166.2	1	-0.24779	-0.73577	-0.24779
341	159.1	2	2.79805	1.977876	2.798045
342	148.2	2	-2.46861	-2.67062	-2.46859
343	160.5	2	3.740187	2.608599	3.740157
344	167	1	0.230919	-0.37487	0.230917
345	145	2	-4.19296	-4.25047	-4.19293
346	149.9	2	-2.22435	-2.45201	-2.22433
347	154.5	2	0.455614	-0.24456	0.455605
348	150	2	-2.12012	-2.27245	-2.12009
349	156.3	2	1.964729	1.168326	1.964718

350	151.2	2	-1.16555	-1.50578	-1.16553
351	148.8	2	-2.86384	-2.8747	-2.8638
352	149	2	-2.48394	-2.69361	-2.48391
353	157.5	1	-4.74444	-4.65251	-4.74441
354	171	1	2.583529	1.691521	2.583513
355	159.8	2	3.270434	2.219603	3.27041
356	160.3	1	-4.20242	-4.28687	-4.20239
357	157.3	2	1.968847	1.086998	1.968831
358	141	2	-6.60302	-6.3019	-6.60298
359	170.5	1	1.98216	1.18736	1.982152
360	152	2	-0.5906	-1.1182	-0.5906
361	172.7	1	3.410257	2.378857	3.410233
362	166.5	1	0.112594	-0.47506	0.112592
363	170.4	1	2.16791	1.226758	2.167888
364	155	2	1.099184	0.458434	1.099184
365	162.2	1	-2.12778	-2.445	-2.12777
366	152.4	2	-0.52256	-1.05327	-0.52256
367	143.8	2	-5.02455	-4.89472	-5.02451
368	165.7	1	-0.20362	-0.76878	-0.20362
369	164.5	2	6.203959	4.806974	6.203917
370	155	2	0.728464	-0.01324	0.728453
371	170.7	1	2.435628	1.544218	2.435611
372	165	1	-0.51373	-0.9086	-0.51372
373	155.2	1	-6.09457	-5.8414	-6.09452
374	158	2	2.300954	1.426587	2.30094
375	164.6	1	-0.92647	-1.37647	-0.92647
376	148.4	2	-2.26126	-2.46498	-2.26124
377	163.7	1	-1.44144	-1.77135	-1.44142
378	158.1	2	2.675475	1.818509	2.675464
379	144.4	2	-4.39982	-4.32763	-4.39979
380	150.7	2	-1.60954	-1.98812	-1.60953
381	162.3	2	5.470681	4.162905	5.470641
382	154.2	1	-6.86883	-6.37274	-6.86877
383	147	2	-3.47101	-3.52401	-3.47098
384	148.8	2	-2.18329	-2.4751	-2.18328
385	147.5	2	-3.47027	-3.59459	-3.47025
386	167.5	1	0.477476	-0.14007	0.477475
387	170.5	1	2.191934	1.294043	2.191916
388	174.7	1	4.365215	3.226389	4.365188
389	156	2	1.478439	0.720086	1.47843
390	157.5	1	-5.38651	-5.3077	-5.38647
391	167.7	1	0.687991	0.01886	0.687986
392	158	2	2.377668	1.527085	2.377658
393	148.9	2	-2.17868	-2.501	-2.17867
394	154.7	2	1.087236	0.4031	1.08723
395	159.3	1	-4.78187	-4.78392	-4.78184
396	153.2	2	-0.59752	-1.11762	-0.59751
397	172	1	2.745201	1.857894	2.745188
398	147.3	2	-3.18436	-3.33922	-3.18434
399	166.7	2	7.271757	5.776187	7.271712
400	154	2	0.790337	0.181325	0.790337
401	155	1	-7.14696	-6.82859	-7.14692
402	169.9	1	1.101483	0.357389	1.101477
403	166	1	-0.36172	-1.09273	-0.36174
404	177.6	1	6.399908	4.951717	6.399861
405	158.7	2	2.733867	1.813902	2.733852
406	157.7	1	-4.26015	-4.11572	-4.26011
407	155	2	0.654327	-0.0506	0.65432
408	160.6	2	4.284666	3.194603	4.284641

409	167.7	2	8.232651	6.724935	8.232609
410	162.5	2	4.299807	2.995882	4.299766
411	150.9	2	-1.21063	-1.64748	-1.21063
412	143.6	2	-4.5838	-4.59687	-4.58377
413	157.9	2	1.91531	1.148568	1.915306
414	166.5	1	-0.39501	-0.9192	-0.39501
415	163.8	1	-1.63951	-2.05128	-1.63951
416	159.3	2	3.142313	2.028204	3.142281
417	165	1	-0.72021	-1.22241	-0.72021
418	148.5	2	-3.01283	-3.10957	-3.0128
419	143.5	2	-5.47935	-5.27933	-5.47931
420	167.2	1	0.477959	-0.0619	0.477965
421	149.7	2	-2.40622	-2.67916	-2.4062
422	161	1	-2.99412	-3.04986	-2.99409
423	162.5	2	4.901066	3.692715	4.901035
424	153.2	2	-0.43913	-1.07952	-0.43914
425	147.2	2	-3.70123	-3.89507	-3.70122
426	151.5	2	-0.89703	-1.41036	-0.89703
427	168.5	1	1.232579	0.482054	1.232568
428	167.3	1	0.295155	-0.23508	0.295161
429	153.7	2	0.214619	-0.40269	0.214616
430	163.7	1	-1.3479	-1.64753	-1.34788
431	159	2	3.181259	2.180983	3.181237
432	172.9	1	3.547264	2.622886	3.547251
433	163.8	2	5.429093	3.969293	5.429042
434	163	1	-2.02113	-2.4082	-2.02113
435	159	2	3.239182	2.349193	3.239171
436	147.1	2	-4.2494	-4.47434	-4.24938
437	152.4	2	-0.86213	-1.42841	-0.86213
438	149	2	-1.91982	-2.17992	-1.9198
439	159.4	1	-3.53482	-3.60642	-3.5348
440	159.7	1	-3.7029	-3.88918	-3.70289
441	172	1	2.753309	1.856193	2.753295
442	168.7	1	0.783916	-0.05554	0.783898
443	164.9	2	6.589681	5.073734	6.589629
444	161.3	2	4.083039	2.948932	4.083012
445	165.1	1	-1.65405	-2.15969	-1.65404
446	168.4	1	1.41095	0.590569	1.410934
447	148.4	2	-2.54247	-2.75855	-2.54245
448	176.5	1	5.249938	3.905768	5.249897
449	162	1	-2.52434	-2.74681	-2.52432
450	155	2	0.299642	-0.18844	0.299655
451	174.3	1	3.943985	2.916386	3.943965
452	155.7	2	1.518927	0.881277	1.518929
453	179.8	1	7.005733	5.532952	7.00569
454	165	1	-0.61936	-1.10736	-0.61936
455	175.4	1	4.581517	3.372678	4.581485
456	159.2	1	-3.88861	-4.06037	-3.88859
457	171.1	1	2.074971	1.246919	2.074961
458	169.8	1	1.833375	1.02782	1.833364
459	162	1	-2.61018	-2.90544	-2.61017
460	158.1	2	2.533989	1.655726	2.533976
461	166.5	2	7.271885	5.603633	7.271824
462	150	2	-1.30193	-1.75224	-1.30193
463	153.6	2	0.374472	-0.14939	0.374478
464	161.6	1	-2.9877	-3.23565	-2.98768
465	154	2	-0.06267	-0.68744	-0.06267
466	155.2	2	1.025276	0.372814	1.025275
467	149	2	-2.58447	-2.798	-2.58445

468	173.2	1	2.54462	1.548562	2.5446
469	161.1	1	-2.9488	-3.18266	-2.94879
470	154.5	2	0.421883	-0.12772	0.421889
471	151.2	2	-1.15675	-1.67145	-1.15675
472	167	1	-0.10553	-0.66601	-0.10553
473	161.4	2	4.517447	3.308067	4.517413
474	160.4	2	3.2682	2.177403	3.268173
475	164.4	1	-1.24022	-1.72241	-1.24022
476	166	1	-0.60194	-1.1033	-0.60193
477	169.8	1	1.751362	1.031113	1.751359
478	157.4	2	1.937246	1.144593	1.937238
479	158	2	2.090259	1.21593	2.090245
480	148.6	2	-2.8394	-3.02611	-2.83938
481	153.5	2	0.196405	-0.30403	0.196412
482	148.7	2	-2.45019	-2.73961	-2.45018
483	150.7	2	-1.45594	-1.74953	-1.45592
484	163.8	2	5.27195	3.843729	5.271902
485	154.8	2	0.177567	-0.49456	0.177562
486	147.2	2	-3.40527	-3.48234	-3.40525
487	163	1	-1.62196	-1.95331	-1.62195
488	157.1	2	2.572128	1.558548	2.5721
489	158.3	1	-5.20482	-5.2221	-5.20479
490	148.2	2	-2.60229	-2.73487	-2.60226
491	161.3	1	-3.30885	-3.34477	-3.30881
492	155.2	2	0.815892	-0.0203	0.815874
493	156.3	2	2.004652	1.158467	2.004638
494	174.5	1	4.047043	2.97751	4.047021
495	181.2	1	7.721445	6.056151	7.721387
496	167.6	1	0.524404	-0.08407	0.524404
497	148	2	-2.75661	-2.89039	-2.75659
498	164.5	1	-0.89518	-1.44923	-0.89518
499	153.6	2	-0.05821	-0.67169	-0.05821
500	144.2	2	-4.7117	-4.64238	-4.71167

The fixed effect was sex (men, women), and the phenotype was height. The results of the genetic values were nearly identical between genomic relationship matrix-based best linear unbiased prediction (G-BLUP) and single nucleotide polymorphism-genomic best linear unbiased prediction (SNP-GBLUP). However, those of single nucleotide polymorphism-best linear unbiased predictor (SNP-BLUP) were dissimilar.