

SUPPLEMENTARY MATERIAL

Table S1. Dissimilarity matrix between 100 Big Coffee VL progenies based on Mahalanobis distance.

Progenies	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G20	G21	G22	G23	G24	G25	G26	G27	G28	G29
G10	0	0.4309	0.4147	0.595	0.7536	1.1021	0.5952	0.738	0.6435	0.5694	1.0002	1.0032	1.005	1.5441	0.9305	0.7433	1.1508	1.0004	0.8281	1.0149
G11		0	1.2738	0.8029	0.944	0.8836	1.1239	1.1459	0.9664	0.3613	0.1888	0.4746	1.0228	0.4396	0.3146	0.2644	0.4108	0.3300	0.4839	0.7834
G12			0	1.2106	1.0704	1.923	0.5864	0.5237	0.7745	1.1239	2.2747	1.69	1.5645	2.7874	1.5042	1.6683	1.8418	1.639	1.2572	1.462
G13				0	0.898	0.3218	0.6942	0.7804	0.8612	0.5735	0.9559	1.1414	0.6785	1.1961	0.9663	0.3893	1.1758	0.8575	0.6766	0.3872
G14					0	0.8639	0.7952	0.4171	0.331	0.5784	1.5068	1.1745	1.7251	1.5147	0.805	1.1519	1.4541	1.3941	0.3850	1.5038
G15						0	1.5433	1.1543	0.6984	0.5045	0.8045	1.4243	0.6407	0.8416	0.7919	0.5135	1.341	0.7218	0.4002	0.7067
G16							0	0.2668	1.0951	0.882	1.8795	0.8505	1.6942	2.1087	1.1358	1.0113	1.3507	1.4483	1.0416	0.9966
G17								0	0.4697	0.5657	1.9216	0.9524	1.3665	1.9945	0.7878	1.1008	1.4811	1.1826	0.5330	1.0964
G18									0	0.3751	1.5588	1.3961	0.8676	1.7892	0.7595	1.1644	1.8438	1.0691	0.3565	1.4886
G19										0	0.6807	0.4225	0.4937	0.8608	0.1493	0.3263	1.0475	0.3160	0.1777	0.9119
G20											0	0.8132	1.181	0.1534	0.5589	0.2568	0.4761	0.3949	0.7487	0.8277
G21												0	1.3783	0.9034	0.2758	0.4123	0.8179	0.5499	0.7213	1.1686
G22													0	1.6464	0.9271	0.6934	1.9912	0.5971	0.9048	1.0744
G23														0	0.5421	0.3991	0.3788	0.4819	0.6764	0.8616
G24															0	0.3482	0.6634	0.1845	0.1815	0.9137
G25																0	0.5399	0.2358	0.4981	0.4005
G26																	0	0.5971	0.8060	0.5249
G27																		0	0.3994	0.5736
G28																			0	0.7879
G29																				0

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Table S1. Continued.

Progenies	G30	G31	G32	G33	G34	G35	G36	G5	G6	G7	G8	G9	M1	M10	M11	M12	M13	M14	M15	M16
G10	1.8309	0.7207	1.9555	0.634	1.0804	0.6906	1.0707	0.846	1.0435	1.5985	2.0337	0.8492	1.0097	0.3666	0.8699	0.7714	2.0927	0.3376	1.5932	0.8972
G11	0.5515	0.6272	0.9	0.7606	0.3229	0.5242	0.9644	0.4190	0.4878	0.6237	0.7433	1.1648	0.4641	0.4143	0.9925	0.5854	1.1977	0.5613	1.0694	0.4714
G12	3.3048	0.9873	2.8455	1.0423	1.7786	0.9033	1.4458	1.4767	1.768	2.2235	3.2658	0.7674	2.2185	0.6197	0.9895	1.4969	3.1872	0.5629	2.251	1.1681
G13	1.531	0.9082	1.196	1.4681	1.2678	1.2303	0.6832	1.4674	0.939	1.2956	1.8554	0.5623	0.4745	1.2237	0.914	0.4208	0.9308	1.0197	0.6871	0.8521
G14	1.8096	1.7749	1.7533	0.6119	1.651	0.9091	0.8587	0.8354	0.7315	1.5001	2.532	0.3801	1.4232	0.497	1.9932	0.3761	1.3267	0.4521	0.7052	0.7609
G15	1.0956	1.6736	1.1011	1.8241	1.547	0.9968	1.2339	1.3757	0.5663	1.2226	1.9138	0.8667	0.4133	1.305	1.6061	0.3356	0.4076	1.507	0.4321	0.9114
G16	2.4895	0.6526	1.7962	0.7341	1.2676	1.49	0.3607	1.2927	1.4146	1.543	2.2097	0.3207	1.6737	0.9344	1.093	0.8349	2.1373	0.4413	1.26	0.8625
G17	2.3922	1.0402	1.7925	0.7088	1.4742	0.8903	0.6179	0.9952	0.9186	1.4254	2.4529	0.0798	1.7638	0.6314	1.3909	0.5895	1.7715	0.5357	0.9123	0.6579
G18	2.0869	1.7449	2.2304	0.8504	1.9021	0.3766	1.5177	0.7911	0.5779	1.8274	2.8077	0.5644	1.4965	0.4035	1.8764	0.4973	1.6367	0.846	1.1004	0.9805
G19	0.9609	0.9385	1.2201	0.5849	0.8981	0.3483	0.9604	0.2759	0.0969	0.9465	1.2311	0.6385	0.7904	0.3975	1.4991	0.1561	0.9903	0.7915	0.6943	0.6041
G20	0.1986	1.0474	0.6695	1.5381	0.4611	1.0009	1.3219	0.8868	0.6648	0.6218	0.5561	1.7669	0.199	1.0864	1.3243	0.7996	0.8447	1.2542	1.0718	0.7675
G21	0.8807	0.6513	1.015	0.5395	0.482	1.0775	0.7048	0.3432	0.507	0.7356	0.5387	1.0774	1.1686	0.7933	1.7058	0.5741	1.4243	0.8682	1.0444	0.7261
G22	1.7955	1.3377	2.0882	1.8148	1.7566	0.7587	2.0442	1.2587	0.7418	1.9021	2.0474	1.4221	1.0355	1.3018	1.6328	0.842	1.6362	1.9693	1.5677	1.5166
G23	0.0735	1.3449	0.2959	1.8532	0.4861	1.2562	1.1909	1.0856	0.6863	0.3269	0.4985	1.7247	0.319	1.3842	1.6095	0.8404	0.4662	1.4632	0.7157	0.6204
G24	0.6179	0.8746	0.7863	0.7352	0.52	0.417	0.9006	0.2334	0.1074	0.4707	0.7436	0.8407	0.8487	0.4915	1.5202	0.3556	0.8766	0.8577	0.6393	0.3734
G25	0.5096	0.5692	0.5595	1.1694	0.4402	0.9235	0.6852	0.7662	0.4517	0.5491	0.5744	0.976	0.2348	0.9781	1.0034	0.374	0.6713	1.0129	0.6381	0.5512
G26	0.6648	0.5989	0.2994	1.6142	0.1082	1.2239	0.6734	1.219	1.1342	0.1456	0.641	1.2941	0.6279	1.1202	0.7133	1.1504	1.0916	0.8173	0.968	0.236
G27	0.6098	0.6702	0.7007	1.3687	0.4442	0.4733	1.1761	0.6399	0.3378	0.4544	0.6438	1.1736	0.5813	0.8404	1.0799	0.6546	0.9151	1.2543	0.8875	0.4732
G28	0.9093	1.1757	0.8719	0.9042	0.8944	0.3719	0.8281	0.5291	0.1791	0.6373	1.4198	0.4668	0.7681	0.4744	1.4213	0.2194	0.638	0.742	0.3509	0.296
G29	1.2981	0.496	0.5424	2.073	0.6557	1.2879	0.617	1.7615	1.2105	0.5808	1.2873	0.8174	0.4621	1.4948	0.3410	0.9413	0.9121	1.1866	0.7629	0.443
G30	0	1.6517	0.5358	1.8917	0.6588	1.4779	1.5404	1.031	0.7006	0.5684	0.3997	2.1738	0.5093	1.5824	2.186	0.9581	0.6429	1.804	0.9798	0.9876
G31		0	1.1272	1.3232	0.3731	1.2212	0.7142	1.2575	1.3814	0.8255	1.0274	1.0969	1.1128	1.0946	0.3857	1.2801	2.0618	0.8315	1.6161	0.6401
G32			0	2.3007	0.4773	1.7932	0.7198	1.6791	1.1294	0.1267	0.6159	1.414	0.6032	1.9006	1.3189	1.0827	0.4636	1.5912	0.53	0.465
G33				0	1.3430	0.9776	1.1590	0.2968	0.8192	1.7788	1.9277	1.01	1.9461	0.3233	2.2744	0.7221	2.3963	0.4487	1.6524	1.1829
G34					0	1.1322	0.7702	0.9238	1.0074	0.2278	0.3543	1.4291	0.7742	1.0236	0.816	1.1501	1.3803	0.873	1.2198	0.375

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Table S1. Continued.

Progenies	M17	M18	M19	M2	M20	M21	M22	M23	M24	M25	M26	M27	M28	M29	M3	M30	M31	M32	M33	M34
G10	0.7894	0.98	0.774	1.5203	0.8194	0.9054	0.4361	1.5514	0.6173	1.1342	1.2816	0.7202	0.9004	0.7486	1.1222	0.4714	1.1872	0.7906	0.6495	1.6571
G11	1.2772	0.4539	0.5264	1.5163	1.0143	0.5145	0.7083	0.9485	0.3954	0.3027	0.7854	0.9507	0.9347	0.8671	1.191	0.5438	0.4452	0.4916	0.3867	0.7726
G12	0.343	1.4803	1.2657	1.2358	0.8407	1.9171	0.4432	2.0905	0.8737	2.0662	1.6221	0.5773	1.2116	0.7067	1.1988	0.6839	2.5373	1.5759	0.9258	2.6661
G13	0.9813	0.8409	0.6067	1.4459	0.6109	0.6869	1.2783	1.6534	0.9196	1.7008	0.9212	1.7021	0.4678	1.714	0.698	0.3958	0.8524	1.0997	0.6408	1.0224
G14	0.7207	0.7221	1.4068	0.8444	1.1596	1.3945	0.6672	0.7793	0.9726	1.1475	1.4242	1.017	0.4387	0.621	0.522	0.4307	1.3538	0.8735	0.9211	2.4428
G15	1.343	0.9052	1.0468	1.8472	1.3094	0.7332	1.4294	1.4202	1.2684	1.4039	1.3462	1.6681	0.2066	1.5868	0.4828	0.6353	0.9184	1.0517	0.9094	1.2257
G16	0.4877	0.8825	0.9048	0.6131	0.2011	1.3396	1.1066	1.3561	0.5591	2.0124	0.7569	1.4946	1.159	1.4284	1.2143	0.3364	1.4266	1.2178	0.5581	1.7988
G17	0.0994	0.7949	1.1561	0.4474	0.357	1.3227	0.7992	0.9009	0.5223	1.796	0.9215	0.8814	0.5881	0.814	0.6163	0.1592	1.6653	0.9953	0.4765	2.0564
G18	0.4691	1.1641	1.5858	1.4212	1.191	1.1262	0.5726	1.0159	0.9227	1.4241	1.7887	0.426	0.2675	0.4048	0.4793	0.4093	1.7398	0.7312	0.8594	2.4112
G19	0.6779	0.6603	0.9976	1.3161	0.6688	0.2612	0.9091	0.4534	0.3043	0.912	0.9377	0.7118	0.4425	0.7724	0.7987	0.1724	0.6451	0.1631	0.2702	1.0764
G20	2.1322	0.6582	0.6709	2.2086	1.5874	0.5826	1.3987	1.3739	0.9141	0.4142	1.0154	1.7625	1.1914	1.6382	1.5151	1.0312	0.3173	0.8584	0.7734	0.5348
G21	1.2331	0.6374	1.0345	1.2379	0.5946	0.4557	1.5773	0.4032	0.1869	1.0123	0.5767	1.5093	1.4379	1.4941	1.7823	0.4913	0.4189	0.3534	0.29	0.8205
G22	1.2266	1.7427	1.4776	2.697	1.1623	0.4394	1.6997	1.7474	1.0229	2.0837	1.7776	1.2208	0.8252	1.7094	1.3426	0.7764	1.4188	0.8442	0.8488	1.2434
G23	2.2908	0.4622	0.7611	1.9001	1.7455	0.9089	1.6777	1.2252	1.0856	0.4114	0.8564	2.1578	1.1864	1.8529	1.3865	1.1487	0.3835	1.1461	0.8612	0.5821
G24	0.9123	0.407	0.9009	1.1197	0.8000	0.4559	1.0254	0.2999	0.235	0.5865	0.6495	0.8905	0.7043	0.8449	0.961	0.3325	0.578	0.3087	0.2064	0.8508
G25	1.3157	0.4854	0.4576	1.5127	0.6693	0.2314	1.3727	0.9919	0.4548	0.8814	0.5165	1.5871	0.8021	1.6032	1.1259	0.4346	0.2091	0.5827	0.2972	0.2937
G26	1.6594	0.1825	0.2252	1.0558	1.1441	1.3405	1.102	1.4639	0.709	0.4629	0.3203	1.821	1.3357	1.5157	1.2731	0.922	0.7534	1.4776	0.5437	0.6229
G27	1.1602	0.5866	0.658	1.5868	0.8842	0.4167	1.2106	0.924	0.3833	0.7713	0.6491	1.0834	0.8148	1.2233	1.0852	0.5351	0.6768	0.6317	0.2459	0.4275
G28	0.6576	0.3551	0.8638	0.8932	0.8764	0.7379	0.7152	0.5135	0.5112	0.6958	0.8095	0.7861	0.1999	0.621	0.3393	0.236	0.8601	0.5642	0.3598	1.2449
G29	1.1569	0.5117	0.14	1.1561	0.6325	1.0836	1.3246	1.9355	0.8261	1.44	0.3647	1.9011	0.7975	1.8951	0.7973	0.6242	1.0148	1.6444	0.4677	0.4857
G30	2.7511	0.7699	1.1837	2.4123	2.0712	0.842	2.1318	1.1779	1.2468	0.5245	1.1803	2.4511	1.5685	2.1768	1.9114	1.4232	0.3239	1.054	1.0924	0.6931
G31	1.035	0.7483	0.3312	1.1933	0.3697	1.0204	1.2278	1.7187	0.3368	1.4429	0.3669	1.5203	1.5835	1.6833	1.6735	0.642	1.1015	1.2955	0.2962	0.6456
G32	2.1119	0.3204	0.5513	1.2707	1.3451	1.3687	2.0292	1.477	1.1201	0.9817	0.365	2.7239	1.3314	2.3757	1.3182	1.134	0.6811	1.7596	0.7846	0.4801
G33	0.9785	1.1386	1.7321	1.36	1.0199	1.0373	1.0044	0.5616	0.5289	1.2235	1.5184	0.9281	1.4460	0.8	1.7718	0.5978	1.1885	0.3873	0.8035	2.3124
G34	1.6137	0.3447	0.353	1.2413	0.9511	1.0154	1.2604	1.2521	0.4398	0.5594	0.3081	1.689	1.5811	1.5601	1.6547	0.8622	0.6312	1.1463	0.3868	0.4545

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Table S1. Continued.

Progenies	M35	M36	M4	M5	M6	M7	M8	M9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21
G10	0.9468	0.8656	0.7447	1.0174	1.082	0.7794	0.4013	0.5096	0.7603	0.6662	1.0807	0.6068	10.4748	1.8878	0.9764	1.973	1.0298	1.3813	0.7979	0.8707
G11	0.3692	0.4443	1.1141	1.5638	0.5092	0.8055	0.5704	0.3902	1.5168	1.85	2.5174	1.0731	13.1617	3.1439	2.1407	2.9345	1.3376	1.8147	2.0262	0.4768
G12	1.4918	1.837	0.4041	0.5869	1.5313	1.2021	0.6443	0.882	0.3877	0.5719	0.473	0.6621	9.1915	1.1232	0.8334	2.0041	1.3422	1.9504	0.4641	1.8362
G13	0.6983	0.2732	0.7609	1.5497	1.2526	0.9777	0.4599	1.1157	2.1712	1.8498	1.9145	1.8692	11.2658	3.4514	2.0639	2.9875	2.9749	2.2876	1.539	1.4236
G14	1.013	1.1697	0.688	0.3798	1.4638	1.1581	0.536	0.3535	1.0714	1.1864	1.5026	0.9958	7.8379	1.6775	1.1329	1.6731	1.8351	1.0643	0.7895	0.6276
G15	0.8351	0.2195	1.0301	1.8371	1.7093	1.8381	0.4542	0.9547	2.6469	2.3628	2.4441	1.9113	10.7266	4.134	2.2518	2.5543	3.1275	1.9138	2.2449	0.9856
G16	0.8597	1.2953	0.5683	0.6774	0.8401	0.28	0.8453	1.1507	1.1521	1.5547	1.5409	1.6584	10.6862	1.7298	1.9611	3.478	2.5177	2.5407	0.7066	1.9428
G17	0.8433	1.238	0.1818	0.2451	1.0719	0.8109	0.4399	0.7103	0.8565	1.4275	1.1346	1.1744	8.7934	1.3769	1.4837	2.5109	2.2776	1.8409	0.606	1.5207
G18	1.2501	1.0485	0.4731	0.5896	1.8166	1.7546	0.1426	0.3267	0.8182	0.9803	0.8517	0.5007	7.3727	1.6251	0.725	1.0505	1.502	0.6721	0.8046	0.7077
G19	0.5229	0.3863	0.6821	1.0932	0.8628	1.0336	0.1816	0.3859	1.2778	1.8632	1.8657	0.9406	10.6538	2.4483	1.8055	2.4315	1.7648	1.2083	1.4761	0.6186
G20	0.5106	0.3259	1.8022	2.5705	0.8409	1.3426	1.0099	0.8917	2.7287	2.8594	3.6999	1.945	15.0667	4.7725	3.1537	3.7765	2.2465	2.5124	3.1909	0.7001
G21	0.4327	0.8171	1.3296	1.5987	0.3119	0.4919	0.9928	0.9481	1.7877	2.9452	3.192	1.8252	13.8278	2.9501	3.2151	4.4016	2.319	2.4056	2.1804	1.2381
G22	1.306	0.5219	1.1558	2.3296	1.8802	2.1363	0.4261	1.3154	2.1972	2.4215	1.9849	1.534	11.6746	3.7513	2.2869	2.8369	2.6671	1.8952	2.2805	1.6016
G23	0.4041	0.4609	1.8919	2.6024	0.8237	1.4991	1.2807	1.0423	3.2675	3.5709	4.4038	2.5211	15.4629	5.3008	3.8151	4.3498	2.9785	3.0508	3.6948	0.8738
G24	0.2917	0.5217	0.8653	1.2715	0.5146	1.0074	0.487	0.4319	1.6022	2.5282	2.6793	1.2948	12.3165	2.9582	2.5454	3.2075	1.9734	1.8178	2.1281	0.6884
G25	0.2443	0.0888	1.1232	1.9383	0.5436	0.7732	0.6131	0.9033	2.3144	2.6409	2.9577	1.8921	13.8971	3.9581	2.907	3.8248	2.6034	2.4437	2.3779	1.0289
G26	0.1725	0.7916	1.2947	1.905	0.2695	0.7905	1.2542	0.9565	2.5037	2.8965	3.699	2.2541	15.621	4.349	3.4389	4.4904	2.5812	3.5694	2.9737	1.2771
G27	0.3042	0.3223	0.9805	1.9187	0.6019	1.2911	0.538	0.7594	2.1203	2.8357	2.9186	1.6036	13.9794	3.9169	2.9398	3.6346	2.3249	2.4369	2.7146	1.0482
G28	0.3916	0.4825	0.5142	0.8563	0.8916	1.2126	0.2476	0.2704	1.4942	1.9443	2.0522	1.1248	10.2985	2.7116	1.8581	2.3044	2.0449	1.5007	1.6586	0.5556
G29	0.3147	0.3933	0.7742	1.9071	0.7287	0.9832	0.81	1.332	2.6957	2.6814	2.814	2.4334	14.2552	4.4414	3.0999	4.1951	3.4246	3.6314	2.5163	1.8798
G30	0.6568	0.6195	2.4187	3.0782	1.02	1.7399	1.5767	1.2748	3.5917	4.0839	4.9774	2.7661	16.1526	5.6514	4.2833	4.7735	3.1181	3.0648	4.1431	0.9316
G31	0.452	0.9234	0.9339	1.7612	0.2862	0.4438	1.0185	1.3116	1.8115	2.4315	2.6084	1.9521	15.1492	3.3246	3.0442	4.6164	2.4585	3.5253	2.1222	2.0432
G32	0.2481	0.6826	1.6749	2.5233	0.6117	1.2408	1.5924	1.5563	3.7351	4.1948	4.7619	3.3668	16.3856	5.6386	4.5922	5.505	4.1335	4.2863	3.8701	1.7684
G33	1.2002	1.5544	1.2391	0.8057	1.0638	0.7556	0.8928	0.5754	0.6388	1.4908	1.8521	0.8214	9.9448	1.1933	1.6213	2.6296	1.1468	1.1142	0.9178	0.8719
G34	0.1935	0.8032	1.3867	2.0323	0.1068	0.6515	1.2441	1.0191	2.305	3.0465	3.7084	2.1356	16.2033	4.1143	3.5931	4.7933	2.3806	3.4694	2.9654	1.3703

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Table S1. Continued.

Progenies	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P5	P6	P7	P8	P9
G10	1.059	1.6985	1.2069	0.6783	1.109	0.9355	1.5513	1.6727	2.2621	0.7667	3.1561	1.7384	0.9722	2.5569	1.6622	1.2492	1.0386	0.68	1.017	0.8103
G11	1.5379	3.2355	1.5879	1.7933	1.8300	1.463	2.5037	3.0664	3.5863	1.9391	4.706	2.2705	1.4019	3.8307	2.4598	2.4142	2.1443	1.4694	1.9861	1.5196
G12	1.1574	0.9553	1.2228	0.6856	0.8062	0.7211	0.9427	1.0807	1.8099	0.4045	1.8621	1.4858	1.4135	2.835	0.9513	0.8656	1.1098	0.6238	0.8098	0.7953
G13	2.0204	1.8466	2.9807	2.0547	0.6746	1.3516	3.1989	1.7053	3.2131	1.4424	4.4049	2.6882	1.7147	2.8555	2.9113	1.8047	1.6967	1.0161	1.6203	1.9282
G14	0.4102	1.4088	1.4567	1.1466	1.2401	0.8276	1.2793	1.1761	1.7652	0.7562	2.3313	1.1994	0.5906	1.7089	2.2249	0.7816	0.767	0.4559	0.6115	0.5285
G15	1.8848	2.8021	3.1111	2.5958	1.5317	2.2274	3.6012	2.5391	3.0747	1.923	4.9123	2.3418	2.2734	2.5584	3.0948	2.2194	1.9846	1.2303	1.6571	2.3084
G16	1.6196	0.8639	2.0947	1.4507	0.2689	0.2011	1.7809	0.7936	3.0185	1.024	2.6212	2.3865	0.9062	3.4283	2.3177	1.3219	1.6146	0.8215	1.5034	0.9964
G17	0.9944	0.8075	1.6512	1.3448	0.4174	0.4382	1.3053	0.6896	2.0146	0.7498	1.8364	1.3431	1.1455	2.6176	1.5458	1.0125	1.377	0.3991	0.8664	0.7758
G18	0.4504	1.5444	1.1529	0.9428	1.3602	1.4383	1.2749	1.3793	1.042	0.6576	2.1036	0.5558	1.4962	1.3815	1.1163	1.0136	0.9515	0.2016	0.3374	0.7457
G19	1.123	2.3607	1.4536	1.6067	1.3463	1.4126	2.1437	2.1007	2.4342	1.5691	3.4156	1.3118	1.6241	2.7291	1.7022	2.1005	1.9736	0.695	1.3209	1.2131
G20	2.4393	4.4786	2.7045	2.9124	2.5296	2.3894	3.9535	4.2356	4.8058	2.9692	6.52	3.2971	2.1717	4.6225	3.6858	3.4314	2.9943	2.3234	2.9274	2.6045
G21	2.0130	3.1001	1.9194	2.4282	1.6411	1.2387	2.7594	2.7961	4.2254	2.6311	4.3704	2.5401	1.627	4.7017	2.7532	3.1804	3.1751	1.6271	2.6539	1.6629
G22	2.3429	3.0702	2.562	2.3303	1.7610	2.7434	3.5473	2.9013	2.8577	2.2114	4.6362	2.0064	3.3276	3.1529	1.8192	3.0863	2.8389	1.2233	1.9456	2.5287
G23	2.6989	4.8084	3.2882	3.6918	2.668	2.4753	4.3743	4.4993	5.405	3.4161	6.8833	3.6616	2.339	5.1529	4.3505	3.6844	3.415	2.7088	3.3134	2.9866
G24	1.4793	3.0949	1.6804	2.2798	1.7003	1.5015	2.4799	2.8125	3.3512	2.1882	4.055	1.7703	1.8124	3.8477	2.1621	2.6576	2.6498	1.2906	1.9669	1.5904
G25	2.2676	3.1724	2.6545	2.5866	1.4000	1.6379	3.5328	2.9347	4.2144	2.3994	5.3538	2.8886	1.9344	4.1533	3.0846	2.9076	2.7243	1.6154	2.451	2.1969
G26	2.6034	3.7964	2.9295	3.1742	1.8165	1.4224	3.4985	3.6848	5.366	2.7059	5.912	3.7372	1.7722	5.6609	3.8136	2.9166	2.9942	2.5419	3.0768	2.5045
G27	2.2455	3.6627	2.3218	2.7937	1.8008	2.0318	3.3498	3.4622	4.0175	2.591	5.1369	2.4102	2.5975	4.546	2.3687	3.2169	3.1705	1.7496	2.4793	2.3897
G28	1.0479	2.386	1.7835	1.9583	1.3433	1.3338	2.1608	2.1424	2.5652	1.4919	3.4778	1.4328	1.5312	2.7942	2.0693	1.7597	1.7837	0.8676	1.2502	1.3392
G29	2.9130	2.7627	3.6315	3.1322	0.8567	1.4893	3.9126	2.713	4.7003	2.2078	5.5341	3.6328	2.3534	4.8054	3.4002	2.5505	2.7201	1.9728	2.6153	2.8076
G30	2.9478	5.4747	3.3703	3.9931	3.2534	2.9466	4.7664	5.0815	5.7862	4.0091	7.3943	3.854	2.6389	5.4725	4.6745	4.3702	3.9641	3.0246	3.769	3.2398
G31	2.7736	2.6863	2.5496	2.4625	0.9821	1.0384	3.0407	2.6899	4.7095	2.2199	4.7771	3.3859	2.0382	5.5066	2.6268	2.8252	3.0315	1.9455	2.8064	2.2078
G32	3.4081	4.3969	4.2449	4.4709	2.0181	2.0631	4.8418	4.1395	6.2758	3.6316	6.985	4.4721	2.5505	6.1575	4.9278	3.7624	3.894	3.0564	3.8183	3.4746
G33	0.7148	1.9998	0.6723	0.8974	1.7338	0.8603	1.0784	1.7545	2.3216	1.3859	2.3922	1.3034	0.7194	2.8454	1.795	1.8156	1.7002	0.7529	1.3299	0.3765
G34	2.6971	3.9215	2.6063	3.0704	1.8851	1.4679	3.4382	3.7884	5.4004	2.9211	5.8002	3.5938	1.9525	5.9465	3.4375	3.3452	3.3975	2.5061	3.2626	2.4496

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Table S1. Continued.

Progenies	G35	G36	G5	G6	G7	G8	G9	M1	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M2	M20
G35	0	1.7509	0.4908	0.4558	1.2185	1.8777	1.0775	1.2988	0.2579	1.439	0.8293	1.7502	0.9251	1.4198	0.7047	0.7062	0.9729	1.2323	1.626	1.2762
G36		0	1.403	1.2407	0.7146	1.397	0.4209	1.0883	1.2827	1.0735	0.6984	1.1367	0.614	0.5695	0.4616	1.0163	0.3241	0.5375	0.396	0.4092
G5			0	0.2733	1.1737	1.1696	1.2524	1.4332	0.2903	2.1955	0.5737	1.7209	0.8082	1.3386	0.9051	1.1493	0.9151	1.5503	1.6265	1.1881
G6				0	0.8813	1.1161	0.956	0.8833	0.6025	2.0407	0.2229	0.7857	1.1517	0.6306	0.7113	1.0821	0.7233	1.3226	1.5624	1.0997
G7					0	0.5363	1.2206	0.7723	1.3096	1.1045	1.0276	0.7554	1.1792	0.6628	0.2132	1.6073	0.1776	0.4738	0.9633	1.1197
G8						0	2.3794	1.0046	1.8892	1.9527	1.4286	1.3715	1.9472	1.5167	1.1124	2.7485	0.939	1.1196	2.3095	1.5936
G9							0	1.4378	0.8624	1.2538	0.5025	1.3134	0.6079	0.5746	0.5363	0.2546	0.613	0.9404	0.3617	0.4019
M1								0	1.4448	1.0756	0.7	0.5453	1.3759	0.7714	0.801	2.0119	0.6835	0.5029	2.0861	1.4169
M10									0	1.4962	0.7158	2.0129	0.318	1.4456	0.676	0.6487	0.8027	1.1897	1.2208	1.0878
M11										0	1.7844	2.1826	1.0634	1.828	0.7309	1.2569	0.9307	0.2001	1.4102	0.9169
M12											0	0.6243	0.8447	0.3412	0.6909	0.912	0.6041	1.0789	1.2058	0.7687
M13												0	2.0044	0.1888	0.902	2.1794	0.7203	1.2153	1.7911	1.7526
M14													0	1.2954	0.5327	0.7329	0.5315	0.7641	0.6816	0.8265
M15														0	0.5384	1.3003	0.412	0.999	0.9094	1.0651
M16															0	0.7599	0.0584	0.3222	0.4586	0.7035
M17																0	1.0442	1.2473	0.6608	0.4667
M18																	0	0.3498	0.5054	0.7935
M19																		0	1.0316	0.7328
M2																			0	0.7163
M20																				0

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Table S1. Continued.

Progenies	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P5	P6	P7	P8	P9
G35	0.9936	1.4456	1.9405	1.8314	1.6838	2.6847	2.0478	1.4137	3.1678	0.9339	2.0970	2.9180	0.9943	1.9877	1.9243	0.9122	1.1456	1.2895
G36	3.0703	2.6432	0.6051	0.4741	2.8955	1.7101	4.4412	1.9046	4.2127	3.3638	1.0478	4.4401	3.7082	1.9753	2.2716	1.6126	2.3551	1.7688
G5	0.8561	1.5915	2.2559	1.5949	1.8014	2.8291	2.7790	2.0732	3.4315	1.2942	1.5146	3.3924	1.7809	2.6381	2.4430	1.1251	1.7552	1.0297
G6	1.7210	2.2079	1.9662	1.9287	2.6072	2.7997	2.8619	2.1871	4.0097	1.4665	1.9884	3.0795	2.1641	2.6750	2.5035	1.0968	1.732	1.5989
G7	3.2425	3.7706	1.8987	1.689	3.8480	3.8315	5.5045	3.1302	5.9496	3.6329	2.2593	5.8770	3.8721	3.3496	3.5554	2.6250	3.2934	2.8274
G8	3.6625	4.5048	3.0240	2.707	5.1261	5.2899	6.9498	4.6469	7.6739	4.6394	3.0742	7.2112	4.7484	5.2327	5.0877	3.5541	4.7307	3.6653
G9	2.2423	1.7333	0.3227	0.4983	1.8054	0.7761	2.4157	0.8700	2.4226	1.7905	1.1570	2.6923	2.1631	1.0007	1.3591	0.5883	1.0252	1.0952
M1	3.4563	3.0626	1.9423	2.2903	4.3416	3.6481	4.7316	2.6679	6.5807	3.6199	2.2193	4.1761	4.0477	3.0137	2.6417	2.1660	2.7356	2.8383
M10	0.5044	0.7782	1.6709	1.0315	0.9326	2.0044	1.8840	0.9635	2.4847	0.9165	0.9933	2.6033	1.1781	1.3826	1.2958	0.6513	0.8821	0.4985
M11	3.2969	2.6975	1.0283	1.3802	3.4185	2.8636	4.7556	1.9231	5.2956	3.8769	2.3617	5.3548	3.0342	2.3296	2.5666	2.2480	2.6713	2.7240
M12	2.0462	1.8708	1.2313	1.3234	2.4884	1.8351	2.6708	1.6131	3.6644	1.7210	1.3169	2.4424	2.5582	1.9237	1.7707	0.7496	1.3731	1.2894
M13	4.3101	4.228	2.2214	2.6481	4.8912	3.7283	5.0356	3.3338	6.5503	3.6768	2.6888	4.3179	4.8264	3.4115	3.2973	2.4388	3.0594	3.3171
M14	1.1986	0.968	1.0743	0.3329	1.1380	1.5165	2.6914	0.8264	2.7645	1.9064	0.3642	3.1094	2.1591	0.9883	1.0490	0.9102	1.1658	0.5442
M15	3.4389	3.2721	1.3393	1.5805	3.5687	2.4038	3.9988	2.3346	4.7833	2.8350	1.8350	3.6098	3.8564	2.3574	2.4702	1.6118	2.1921	2.2864
M16	2.2618	2.4329	1.1217	0.9176	2.4421	2.4387	3.7957	1.7472	4.1233	2.4565	1.4501	4.2736	2.6583	1.9192	2.1728	1.5294	1.9405	1.7136
M17	1.5557	1.3452	0.5281	0.6996	1.2483	0.8953	1.8409	0.7237	1.7199	1.1815	1.6528	2.8090	1.0289	1.1123	1.5470	0.4590	0.8460	0.9661
M18	2.4879	2.6055	1.2497	0.9198	2.7085	2.5625	4.1769	1.9779	4.5309	2.7959	1.2372	4.3656	3.2436	2.0713	2.2392	1.6971	2.1742	1.7694
M19	3.1017	2.7291	1.0427	1.1670	3.4007	2.8323	4.7816	2.0498	5.4238	3.6458	1.7848	4.9945	3.3909	2.3339	2.4502	2.0582	2.5888	2.4066
M2	2.7000	2.6313	0.7463	0.3721	2.0552	1.4971	3.8244	1.6028	2.9768	2.7323	1.2425	4.4836	3.0219	1.5383	2.1979	1.5635	1.9944	1.5474
M20	2.4930	2.1697	0.3275	0.6350	2.5252	1.3940	3.6075	1.6609	3.3519	2.5909	1.7388	4.2241	2.2636	2.1498	2.5114	1.1230	2.0417	1.6677
M21	2.3072	2.4045	1.9032	2.2153	3.5196	3.0958	3.7027	2.6638	5.0669	2.3936	2.4015	3.7221	2.6348	3.4229	3.0657	1.4427	2.4345	2.1557
M22	1.0237	0.8983	1.5347	1.0303	1.0338	1.9859	2.0067	0.6238	2.6891	1.3726	1.0954	2.7143	1.4401	0.8598	0.8950	0.9042	0.7886	0.8011
M23	1.6385	2.4478	2.1635	1.5849	2.2687	2.6549	3.2494	2.5307	3.4413	1.6156	1.6880	3.6968	2.5313	2.8905	2.9295	1.3360	2.1065	1.3667
M24	1.4724	1.8354	1.1022	0.8844	2.0304	2.1905	3.3488	1.8054	3.4317	1.9252	1.5675	4.1930	1.7579	2.3752	2.5303	1.1430	1.9323	1.3093
M25	1.8305	2.4710	2.9037	2.0028	2.7431	4.1259	4.2227	2.5532	5.3889	2.6344	1.5631	4.4565	3.2721	2.7760	2.5038	2.2454	2.4688	1.8913

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Table S1. Continued.

Progenies	M26	M27	M28	M29	M3	M30	M31	M32	M33	M34	M35	M36	M4	M5	M6	M7	M8	M9
M26	0	1.9942	1.2591	1.8432	1.2097	0.5767	0.8544	1.4276	0.2794	0.5517	0.1187	0.8151	0.9133	1.5923	0.1606	0.4621	1.1743	1.3053
M27		0	1.0102	0.1468	1.1608	0.8013	2.3397	0.9647	0.9233	2.6299	1.4774	1.6841	0.6807	0.8311	1.6714	1.9784	0.4493	0.3614
M28			0	0.8787	0.1012	0.3864	1.3802	1.0637	0.7435	1.7145	0.8105	0.5704	0.4401	0.9373	1.5907	1.6842	0.2146	0.5567
M29				0	0.9069	0.7925	2.1601	1.0475	0.9857	2.7575	1.3087	1.7095	0.694	0.5432	1.5449	1.7852	0.5489	0.1463
M3					0	0.5498	1.8044	1.5982	0.8905	1.9938	0.8555	0.9049	0.3586	0.8074	1.6329	1.7654	0.4388	0.6756
M30						0	0.8791	0.5189	0.1516	1.1645	0.3934	0.5427	0.2738	0.6236	0.6606	0.611	0.2002	0.4847
M31							0	0.6495	0.7450	0.5713	0.5272	0.3956	1.972	2.4814	0.7412	0.867	1.2411	1.2355
M32								0	0.5927	1.4407	0.9388	0.7757	1.3521	1.5136	1.089	1.1904	0.5897	0.6107
M33									0	0.6572	0.1686	0.521	0.4786	1.0682	0.266	0.5443	0.427	0.6391
M34										0	0.4521	0.4584	1.8928	3.2266	0.645	1.2521	1.4866	1.9145
M35											0	0.4371	0.7936	1.4193	0.193	0.5852	0.7504	0.7698
M36												0	1.1446	2.1088	0.9898	1.2278	0.5388	0.9861
M4													0	0.43	1.1526	1.1777	0.3241	0.6877
M5														0	1.6102	1.2933	0.8319	0.6658
M6															0	0.3521	1.2328	1.0731
M7																0	1.3112	1.2794
M8																	0	0.3515
M9																		0

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Table S1. Continued.

Progenies	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27
M26	2.4681	3.2119	3.4230	2.6155	15.0475	3.9041	3.7136	5.0915	3.3953	3.9032	2.5643	1.9621	2.8256	2.8634	3.2487	3.3228	0.9637	0.9654
M27	0.3935	1.01	0.9550	0.1592	9.0457	1.4298	0.8885	1.3692	0.7018	1.0567	1.1842	0.9658	0.7133	2.3113	0.5409	0.9174	2.0051	1.6829
M28	1.7454	1.65	1.5791	1.287	8.9169	2.894	1.487	1.8116	2.5196	1.543	1.4646	0.8954	1.1506	1.9039	2.3233	1.9134	1.1147	1.5628
M29	0.4411	0.9108	1.1843	0.2336	8.653	1.3976	0.8327	1.2398	0.6834	1.0189	1.119	0.6374	0.3991	2.2308	0.5658	0.914	2.0216	1.3629
M3	1.8559	1.6981	1.6739	1.5253	9.0177	2.9873	1.6148	2.0002	2.7795	2.0891	1.5597	1.194	1.3056	1.8127	2.6319	2.1712	1.0376	1.4034
M30	1.0888	1.5934	1.4986	1.0944	10.2897	2.034	1.6893	2.6256	2.0522	1.6827	1.0016	1.0242	1.1507	1.4714	1.6679	1.4962	0.5901	0.7024
M31	2.932	3.3397	4.0344	2.4903	14.8579	4.5196	3.6552	4.5796	2.9719	2.6592	2.9627	1.0422	2.5545	3.9794	2.9962	3.071	2.1577	1.9872
M32	1.356	2.2169	2.3658	1.0378	11.152	2.4161	2.1481	2.8116	1.5997	1.0486	1.7443	0.6537	1.2091	2.9649	1.1986	1.6199	2.0621	1.7792
M33	1.4057	2.2056	2.1901	1.3872	12.6846	2.693	2.4403	3.5234	2.1599	2.3645	1.6983	1.2204	1.7702	2.3046	1.9103	2.1036	0.8886	0.9339
M34	3.6948	4.2592	4.5484	3.2417	17.8596	5.8271	4.726	5.8929	3.9379	4.2914	3.9845	2.1422	4.0046	4.7005	4.1487	4.3105	2.0637	2.5406
M35	2.1273	2.7093	3.0508	1.9724	13.9855	3.6697	3.0516	4.0707	2.6687	2.9595	2.3531	1.1798	2.1763	2.9513	2.6329	2.8055	1.1802	1.1182
M36	2.6129	2.625	2.8626	1.9788	13.1871	4.3385	2.7674	3.4417	2.8856	2.345	2.5009	1.034	2.3153	3.2274	3.0034	2.7220	1.4935	2.0287
M4	0.9964	1.3452	1.0151	1.1054	9.3701	1.8893	1.4123	2.3019	2.2421	2.1586	0.9301	1.5989	1.2672	1.1256	1.9017	1.5770	0.4831	0.7646
M5	0.5731	1.0775	1.031	0.9763	7.4222	0.8546	1.0921	1.953	1.8633	1.6933	0.4837	1.5094	0.5531	0.8298	1.2661	1.0644	0.9894	0.4726
M6	2.0082	2.9878	3.4279	2.1542	15.4076	3.4543	3.5305	4.9333	2.5396	3.4769	2.5035	1.6212	2.5264	3.2208	2.4618	2.8802	1.4263	0.9766
M7	1.7129	2.2961	2.7734	2.1469	13.6101	2.6444	2.9325	4.602	2.5915	3.1692	1.5736	1.8382	2.1961	2.0419	2.4037	2.1151	0.8767	0.4035
M8	1.0038	1.1846	1.0671	0.6532	9.3431	2.1502	1.1104	1.6654	1.6105	1.1487	1.0602	0.7739	0.9438	1.7607	1.4436	1.2205	1.0322	1.3323
M9	0.7679	1.104	1.561	0.427	9.575	1.9014	1.0965	1.5332	0.885	0.9631	1.2409	0.2454	0.4849	2.3545	0.8471	1.0857	1.7775	1.2198
P10	0	0.6398	0.6847	0.2885	8.0215	0.4147	0.6942	1.6118	0.6565	1.1935	0.5055	1.5401	0.5670	1.4959	0.3004	0.3513	1.8768	1.1058
P11		0	0.4353	0.5735	7.1171	1.2604	0.1476	0.8555	0.9843	1.2994	0.5153	1.6246	0.7855	1.3935	1.2012	0.2296	2.0003	1.5708
P12			0	0.802	6.047	1.0264	0.333	1.0719	1.806	1.5263	0.4173	2.4751	1.119	0.8639	1.5262	0.5518	1.5881	1.8188
P13				0	8.1828	1.182	0.4728	0.9044	0.3283	0.6166	0.9451	0.8213	0.4495	2.2823	0.2961	0.4157	2.382	1.8198
P14					0	6.1629	5.6693	4.8174	10.2671	6.367	6.437	10.2351	6.1492	6.4977	8.6563	6.972	10.5854	10.5068
P15						0	1.1919	2.2536	1.7465	1.7521	0.5436	2.8817	0.9292	1.2473	0.8524	0.7074	2.5052	1.5100
P16							0	0.3491	1.1032	0.8229	0.5905	1.5508	0.5422	1.5176	1.1065	0.2871	2.3569	2.0638

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Table S1. Continued.

Progenies	P28	P29	P30	P31	P32	P33	P34	P35	P36	P5	P6	P7	P8	P9
M26	3.4849	2.7292	5.2363	2.5995	5.1007	3.6693	1.9182	5.6967	3.5572	2.8740	3.2483	2.1840	3.0401	2.4739
M27	0.9453	2.2838	1.4371	1.0008	2.1775	0.5884	1.9884	2.6429	0.4722	1.5851	1.6107	0.7351	0.8140	0.8919
M28	2.3812	1.7223	2.1070	1.1142	3.3673	1.5013	1.7874	2.0560	2.1556	1.3152	1.3294	0.6921	0.8973	1.5467
M29	0.7492	2.1658	1.5350	0.8584	2.1670	0.6924	1.3562	2.4647	1.0034	1.1703	1.2008	0.7726	0.6927	0.6392
M3	2.3585	1.7028	2.3931	1.0606	3.3439	1.8198	1.7790	2.4630	2.4141	1.0983	1.3029	0.9469	0.9984	1.6962
M30	1.8309	1.3031	2.4496	1.0988	2.8291	1.5289	1.2398	2.8362	1.7302	1.4842	1.6222	0.5458	1.1430	1.0214
M31	4.0771	3.6058	5.0614	3.1720	6.2134	3.5332	1.8180	4.6195	4.2051	3.5842	3.2159	2.1867	3.1429	2.4340
M32	2.2162	2.619	2.6848	2.0995	3.6409	1.3901	1.7002	2.9921	1.9123	2.7489	2.4430	0.9597	1.7330	1.1964
M33	2.3822	2.1584	3.4810	1.7865	3.7547	2.1206	1.6991	4.1472	1.9934	2.2875	2.4760	1.1748	1.9278	1.5732
M34	5.3133	4.4934	6.4245	3.9601	7.4681	4.6085	3.3139	6.5460	4.3509	4.5868	4.5302	3.0851	4.2004	3.8350
M35	3.1061	2.7726	4.4556	2.2719	4.8947	2.9442	1.6810	4.7589	3.0979	2.5661	2.7186	1.7802	2.4736	2.0805
M36	3.8453	2.9870	3.9719	2.3499	5.5657	2.8582	2.2453	3.6778	3.1936	2.8243	2.5714	1.5794	2.2904	2.4526
M4	1.5875	1.1197	2.1406	0.7394	2.3005	1.4903	1.6712	2.9205	1.3713	1.0374	1.4481	0.6324	0.9160	1.2259
M5	0.6073	0.7575	1.6011	0.4997	1.2092	1.0897	0.8606	2.3625	1.5326	0.5564	0.9602	0.5145	0.5966	0.4312
M6	3.0061	3.0787	5.1185	2.6608	4.9495	3.3690	1.6809	5.8102	3.1943	3.0545	3.2870	2.1999	3.0603	2.0989
M7	2.5091	1.9149	4.4924	1.9525	4.0866	3.3465	0.8941	4.7922	3.3252	2.2431	2.4111	1.6713	2.5288	1.4703
M8	1.7876	1.6372	1.7655	0.9024	2.8704	1.0720	1.6675	2.1485	1.2462	1.3836	1.3358	0.4227	0.7634	1.1077
M9	1.2400	2.1989	1.9853	1.0365	2.8911	1.0203	1.0385	2.4423	1.5653	1.3158	1.2001	0.7569	0.8636	0.7133
P10	0.2362	1.5125	1.2601	0.6490	1.1936	0.7577	1.3132	2.5245	0.6287	1.1378	1.2424	0.6359	0.7224	0.3040
P11	0.8604	1.5155	1.1769	0.2332	2.0852	1.4878	1.2556	1.5947	1.5697	0.5085	0.3133	0.7928	0.4671	0.6886
P12	0.9916	0.9942	0.6731	0.2731	1.2637	1.0711	2.2423	1.5256	0.8105	0.7523	0.8523	0.5045	0.3777	1.0199
P13	0.7139	2.2487	1.0901	0.8069	2.094	0.5531	1.6327	2.0068	0.6538	1.3603	1.1419	0.6597	0.6077	0.5893
P14	6.4517	6.3169	3.5036	6.2841	4.3669	5.7191	9.4651	3.4324	8.0626	5.9551	5.9809	6.4306	5.1406	7.0365
P15	0.2019	1.2256	1.2115	1.0162	0.3699	1.0779	1.7189	2.5578	1.2263	1.3790	1.6606	0.9875	1.0571	0.4615
P16	0.8122	1.5658	0.5347	0.2843	1.7132	0.8966	1.6638	0.9549	1.2554	0.5852	0.3551	0.5974	0.1937	0.7120

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Table S1. Continued.

Progenies	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32
P17	0	1.6390	0.7680	1.6483	1.6883	0.8162	2.8556	1.6955	1.0761	3.8592	3.6228	1.5983	2.8194	0.5274	1.0552	2.5517
P18		0	1.1773	1.7889	1.0878	0.9989	3.6657	0.3149	0.7338	3.7272	2.4811	1.0767	3.6667	2.2050	1.6722	3.2307
P19			0	1.4019	0.8304	0.4421	2.8947	0.8333	0.8168	3.4359	2.9299	1.4380	2.6019	0.8082	1.4641	2.5041
P20				0	2.0107	0.7181	0.3779	1.2869	0.3754	1.0655	0.7817	0.6366	0.3674	1.0801	0.2098	1.0248
P21					0	0.7504	3.5074	1.2413	1.5203	2.8251	2.1197	2.0642	3.2255	2.5246	1.7838	4.1710
P22						0	1.7958	0.6033	0.5644	2.3698	1.5267	0.5103	1.6117	0.8421	0.6835	1.5217
P23							0	2.8962	1.4637	0.7148	0.9356	1.5687	0.0422	1.9015	0.5988	1.2680
P24								0	0.6236	3.2738	2.0674	0.5277	2.7885	1.5390	1.5021	1.9179
P25									0	2.2193	1.5577	0.5639	1.4676	0.9664	0.4812	1.6259
P26										0	0.5881	2.5892	0.7217	3.3337	1.1693	2.9878
P27											0	1.4042	0.9073	3.2753	1.0257	2.3755
P28												0	1.5724	1.1480	0.7743	0.7116
P29													0	1.8162	0.6715	1.2517
P30														0	0.9926	1.0872
P31															0	1.4177
P32																0

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