

TABLE B-1. Estimated generalized variance function parameters and relevant model fitting statistics

Field and demographic group	<i>a</i>	<i>b</i>	<i>SE(b)</i>	Direct		<i>R</i> ²	Adjusted <i>R</i> ²	Root mean <i>SE</i>	Subgroup sample size	Outliers removed
				estimates	<i>F</i> -statistic					
All fields	-0.000024	18.1464	0.8826	103	422.75	0.8072	0.8052	0.4456	29,915	0
Male	-0.000036	19.2334	0.8689	102	489.92	0.8305	0.8288	0.4199	20,484	0
Female	-0.000085	16.6988	0.7680	102	472.80	0.8254	0.8237	0.4263	9,431	0
American Indian/Alaska Native	-0.002704	19.0639	0.6634	97	825.73	0.8968	0.8957	0.2792	244	0
Asian	-0.000170	21.1387	0.9079	98	542.16	0.8496	0.8480	0.3762	4,701	0
Black	-0.000513	14.1247	0.5065	98	777.71	0.8901	0.8890	0.2907	1,609	0
Hispanic	-0.000491	11.3665	0.4141	97	753.59	0.8881	0.8869	0.2959	1,683	0
White	-0.000034	19.3993	0.8649	98	503.09	0.8398	0.8381	0.4049	21,584	0
Other/unknown race/ethnicity ^a	-0.006219	17.3240	0.7797	92	493.69	0.8458	0.8441	0.3217	94	0
2001–02 cohort	-0.000248	18.0064	0.7159	103	632.62	0.8623	0.8610	0.3313	2,461	0
Foreign born	-0.000027	15.3765	0.6987	99	484.33	0.8331	0.8314	0.4145	23,416	0
Science										
Total	-0.000032	18.7888	0.8439	101	495.70	0.8335	0.8318	0.4067	23,725	0
Male	-0.000049	19.9501	0.8222	100	588.70	0.8573	0.8558	0.3784	15,759	0
Female	-0.000102	17.4232	0.7449	100	547.06	0.8481	0.8465	0.3921	7,966	0
American Indian/Alaska Native	-0.002850	19.4780	0.6207	95	984.76	0.9146	0.9136	0.2474	209	1
Asian	-0.000261	20.4404	0.7862	96	675.88	0.8779	0.8766	0.3317	3,186	0
Black	-0.000736	14.5445	0.5187	96	786.32	0.8932	0.8921	0.2931	1,255	0
Hispanic	-0.000594	11.7313	0.4065	95	833.00	0.8996	0.8985	0.2745	1,366	0
White	-0.000042	19.8531	0.8012	96	614.03	0.8672	0.8658	0.3607	17,628	0
Other/unknown race/ethnicity ^a	-0.002496	14.5853	0.7059	89	426.97	0.8307	0.8288	0.3217	81	0
2001–02 cohort	-0.000366	18.4735	0.6554	101	794.45	0.8892	0.8881	0.2971	1,883	0
Foreign born	-0.000030	14.4136	0.6063	97	565.19	0.8574	0.8559	0.3686	19,321	1
Biological, agricultural, and environmental life sciences										
Total	-0.000103	18.9081	0.6838	96	764.63	0.8905	0.8894	0.3204	7,570	0
Male	-0.000153	19.1013	0.6498	95	864.09	0.9028	0.9018	0.3042	4,968	0
Female	-0.000338	18.6603	0.6292	95	879.56	0.9044	0.9033	0.3004	2,602	0
American Indian/Alaska Native	-0.008630	19.7755	0.5466	81	1,308.71	0.9458	0.9451	0.1885	56	4
Asian	-0.000777	21.6277	0.4654	91	2,159.69	0.9626	0.9621	0.1821	1,171	5
Black	-0.002646	13.2810	0.4744	91	783.78	0.8980	0.8969	0.2847	353	0
Hispanic	-0.001754	10.9322	0.3972	90	757.50	0.8980	0.8969	0.2646	458	2
White	-0.000149	21.3056	0.4410	91	2,333.96	0.9649	0.9644	0.1834	5,505	4
Other/unknown race/ethnicity ^a	0.004862	12.8266	0.9506	78	182.07	0.7055	0.7016	0.4208	27	0
2001–02 cohort	-0.001180	19.9993	0.6374	93	984.45	0.9162	0.9153	0.2536	609	1
Foreign born	-0.000109	15.8951	0.2670	92	3,545.21	0.9779	0.9777	0.1463	6,192	10
Agricultural/food sciences										
Total	-0.000831	19.7286	0.6355	96	963.76	0.9111	0.9102	0.2736	919	0
Male	-0.001044	20.8269	0.6009	94	1,201.08	0.9296	0.9288	0.2431	717	1
Female	-0.003947	16.8295	0.6471	94	676.45	0.8803	0.8790	0.3198	202	0
American Indian/Alaska Native	-0.052211	25.2737	0.7537	53	1,124.60	0.9591	0.9582	0.1221	8	3
Asian	-0.005960	21.5014	0.8178	89	691.33	0.8882	0.8869	0.3028	133	0
Black	0.002570	12.6131	0.9257	84	185.64	0.6936	0.6899	0.4449	46	0
Hispanic	0.015108	6.8460	0.6988	83	95.97	0.5613	0.5555	0.4200	66	6
White	-0.001182	20.8867	0.5122	90	1,662.83	0.9508	0.9503	0.2078	664	2
Other/unknown race/ethnicity ^a	0.703864	0.6983	0.0979	41	50.83	0.5658	0.5547	0.0732	2	0
2001–02 cohort	-0.008756	17.5839	0.7625	80	531.74	0.8721	0.8704	0.2866	56	0
Foreign born	-0.000998	17.5834	0.3843	91	2,093.71	0.9614	0.9610	0.1869	709	5
Biochemistry/biophysics										
Total	-0.000571	20.4577	0.6311	96	1,050.95	0.9187	0.9178	0.2527	1,152	1
Male	-0.000805	20.8332	0.6421	94	1,052.86	0.9204	0.9196	0.2494	782	1
Female	-0.001992	20.9311	0.5900	93	1,258.76	0.9333	0.9325	0.2284	370	1
American Indian/Alaska Native	-0.093168	22.5286	1.3343	59	285.09	0.8334	0.8305	0.3284	8	0

TABLE B-1. Estimated generalized variance function parameters and relevant model fitting statistics

Field and demographic group	<i>a</i>	<i>b</i>	<i>SE(b)</i>	Direct		<i>R</i> ²	Adjusted <i>R</i> ²	Root		Subgroup sample size	Outliers removed
				estimates	<i>F</i> -statistic			mean	<i>SE</i>		
Asian	-0.003225	22.9599	0.4599	88	2,492.45	0.9681	0.9678	0.1563		228	4
Black	-0.004220	13.8126	0.9690	82	203.19	0.7175	0.7140	0.4359		45	0
Hispanic	-0.000292	10.6624	0.7440	80	205.40	0.7248	0.7212	0.4218		49	0
White	-0.000846	22.1574	0.5711	90	1,505.47	0.9454	0.9447	0.2066		818	1
Other/unknown race/ethnicity ^a	-0.158451	11.2974	1.1035	46	104.82	0.7043	0.6976	0.4275		4	0
2001–02 cohort	-0.007866	20.8719	0.5658	89	1,360.67	0.9406	0.9399	0.2034		79	1
Foreign born	-0.000635	16.8583	0.5915	91	812.33	0.9013	0.9001	0.2819		902	0
Cell/molecular biology											
Total	-0.000941	19.8156	0.5781	95	1,175.07	0.9267	0.9259	0.2388		755	0
Male	-0.001729	20.1599	0.4914	92	1,682.77	0.9492	0.9487	0.1976		402	0
Female	-0.002054	19.5002	0.5890	94	1,096.05	0.9233	0.9225	0.2460		353	1
American Indian/Alaska Native	0.733513	1.0146	0.2640	37	14.77	0.2968	0.2767	0.1328		2	0
Asian	-0.003853	21.2082	0.7605	86	777.64	0.9025	0.9014	0.2719		189	0
Black	-0.004735	10.3297	0.8403	76	151.11	0.6713	0.6668	0.4820		33	0
Hispanic	0.016312	5.9285	0.4598	74	166.22	0.7067	0.7024	0.3597		38	3
White	-0.001364	20.6042	0.4622	91	1,987.09	0.9581	0.9576	0.1809		493	2
Other/unknown race/ethnicity ^a	NA	NA	NA	NA	NA	NA	NA	NA		0	NA
2001–02 cohort	-0.006664	19.8190	0.6824	82	843.55	0.9134	0.9123	0.2359		83	0
Foreign born	-0.001125	17.2509	0.3341	90	2,666.39	0.9705	0.9702	0.1531		573	7
Environmental life sciences											
Total	-0.002027	19.3223	0.5490	94	1,238.85	0.9316	0.9308	0.2214		307	1
Male	-0.002761	20.8054	0.5686	93	1,339.10	0.9370	0.9363	0.2160		236	1
Female	-0.008385	16.3523	0.6217	90	691.92	0.8872	0.8859	0.2813		71	0
American Indian/Alaska Native	-0.035462	18.7061	0.4873	38	1,473.87	0.9775	0.9768	0.0573		3	2
Asian	-0.009787	19.2606	1.1275	83	291.83	0.7827	0.7801	0.3857		30	0
Black	0.094077	3.8216	0.3347	66	130.35	0.6777	0.6725	0.3192		10	2
Hispanic	-0.010599	9.6842	0.7765	74	155.53	0.6836	0.6792	0.4436		18	0
White	-0.002534	20.2788	0.5626	90	1,299.16	0.9366	0.9358	0.2180		246	0
Other/unknown race/ethnicity ^a	NA	NA	NA	NA	NA	NA	NA	NA		0	NA
2001–02 cohort	-0.019205	20.6850	0.9114	74	515.13	0.8774	0.8757	0.2761		29	0
Foreign born	-0.001463	12.2811	0.3524	89	1,214.51	0.9346	0.9338	0.2229		264	2
Microbiology											
Total	-0.001166	19.7318	0.7122	95	767.65	0.8919	0.8908	0.2961		595	0
Male	-0.001950	20.7136	0.5121	93	1,636.18	0.9495	0.9489	0.2077		372	4
Female	-0.003212	20.3837	0.6921	94	867.52	0.9041	0.9031	0.2708		223	0
American Indian/Alaska Native	-0.004403	3.2053	0.0071	43	205,609.43	0.9998	0.9998	0.0058		3	0
Asian	-0.008693	20.7136	0.7813	86	702.80	0.8932	0.8920	0.2905		86	0
Black	-0.013256	7.2894	0.1769	80	1,698.25	0.9631	0.9626	0.1262		33	13
Hispanic	0.001217	6.7827	0.4152	82	266.88	0.7806	0.7777	0.3023		36	5
White	-0.001689	21.8500	0.5428	90	1,620.38	0.9502	0.9496	0.2047		434	3
Other/unknown race/ethnicity ^a	0.240767	12.0613	1.6007	45	56.78	0.5690	0.5590	0.2577		3	0
2001–02 cohort	-0.005570	16.2041	0.8174	81	393.00	0.8326	0.8305	0.3191		42	0
Foreign born	-0.001040	13.8940	0.4752	90	854.92	0.9067	0.9056	0.2770		496	0
Zoology											
Total	-0.001012	20.6955	0.5539	95	1,396.00	0.9375	0.9369	0.2171		648	0
Male	-0.001388	22.1237	0.5672	94	1,521.37	0.9430	0.9424	0.2086		482	0
Female	-0.004192	19.0495	0.5232	91	1,325.80	0.9391	0.9384	0.2164		166	3
American Indian/Alaska Native	0.200674	11.2739	1.2388	51	82.82	0.6283	0.6207	0.2884		4	0
Asian	-0.011421	18.2548	0.8652	85	445.15	0.8428	0.8410	0.3402		56	0
Black	0.011861	9.5355	0.6766	73	198.63	0.7394	0.7357	0.3569		27	1
Hispanic	0.008649	6.9469	0.6198	79	125.64	0.6262	0.6212	0.4534		34	2
White	-0.001246	21.8312	0.4915	90	1,972.89	0.9582	0.9577	0.1766		525	2
Other/unknown race/ethnicity ^a	0.019624	24.0457	0.4414	39	2,967.68	0.9877	0.9874	0.0363		2	0

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Field and demographic group	<i>a</i>	<i>b</i>	<i>SE(b)</i>	Direct		<i>R</i> ²	Adjusted <i>R</i> ²	Root mean <i>SE</i>	Subgroup sample size	Outliers removed
				estimates	<i>F</i> -statistic					
2001–02 cohort	-0.007804	21.0847	0.4108	79	2,633.72	0.9734	0.9730	0.1193	34	5
Foreign born	-0.000767	12.8290	0.2952	90	1,888.88	0.9579	0.9574	0.1877	576	5
Other biological sciences										
Total	-0.000242	19.7613	0.6249	96	1,000.13	0.9141	0.9132	0.2694	3,194	0
Male	-0.000369	20.4819	0.6188	95	1,095.74	0.9218	0.9209	0.2542	1,977	0
Female	-0.000633	18.5413	0.5397	95	1,180.39	0.9270	0.9262	0.2438	1,217	0
American Indian/Alaska Native	-0.012561	19.6665	0.5209	78	1,425.20	0.9513	0.9506	0.1682	28	3
Asian	-0.001836	22.4049	0.4063	91	3,041.57	0.9731	0.9728	0.1432	449	5
Black	-0.004038	12.1860	0.4713	88	668.68	0.8884	0.8871	0.2675	159	2
Hispanic	-0.003160	10.4085	0.4514	90	531.70	0.8594	0.8578	0.3115	217	1
White	-0.000338	22.1422	0.4609	91	2,307.80	0.9645	0.9641	0.1750	2,325	4
Other/unknown race/ethnicity ^a	0.034241	10.1309	1.0301	74	96.73	0.5733	0.5674	0.4963	16	0
2001–02 cohort	-0.002165	19.8978	0.6242	93	1,016.27	0.9178	0.9169	0.2410	286	0
Foreign born	-0.000232	15.2519	0.2990	92	2,601.67	0.9687	0.9684	0.1684	2,672	6
Computer and information sciences										
Total	-0.001350	19.6011	0.6592	94	884.27	0.9067	0.9057	0.2872	666	1
Male	-0.001922	23.4236	0.4831	93	2,350.64	0.9655	0.9651	0.1752	449	7
Female	-0.004282	9.7846	0.4040	93	586.53	0.8657	0.8642	0.3635	217	0
American Indian/Alaska Native	0.311583	9.6757	1.3262	40	53.23	0.5835	0.5725	0.1973	2	0
Asian	-0.004516	20.6604	0.6799	88	923.32	0.9166	0.9156	0.2663	213	2
Black	0.096744	2.4547	0.4198	82	34.19	0.3160	0.3068	0.5051	42	6
Hispanic	-0.017124	8.2028	0.7043	77	135.64	0.6439	0.6392	0.5665	38	0
White	-0.002338	20.3525	0.4463	90	2,079.73	0.9616	0.9612	0.1888	371	5
Other/unknown race/ethnicity ^a	NA	NA	NA	NA	NA	NA	NA	NA	0	NA
2001–02 cohort	-0.007261	18.1434	0.7796	83	541.57	0.8699	0.8683	0.3035	90	0
Foreign born	-0.002442	19.3157	0.3664	89	2,778.50	0.9713	0.9710	0.1605	378	5
Mathematics and statistics										
Total	-0.000587	21.5037	0.5914	95	1,322.31	0.9363	0.9356	0.2436	1,441	3
Male	-0.000775	23.8910	0.5099	94	2,195.03	0.9627	0.9623	0.1909	1,128	7
Female	-0.002925	18.3096	0.5186	94	1,246.52	0.9334	0.9326	0.2447	313	3
American Indian/Alaska Native	0.072745	19.3372	2.2611	61	73.14	0.5535	0.5459	0.4727	7	0
Asian	-0.003868	25.6403	0.4400	90	3,396.07	0.9764	0.9761	0.1519	247	6
Black	-0.001796	8.7823	0.6405	83	188.00	0.7015	0.6978	0.4504	74	1
Hispanic	-0.007288	12.6486	0.6879	87	338.06	0.7991	0.7967	0.3826	79	0
White	-0.000750	21.2547	0.5377	90	1,562.43	0.9484	0.9478	0.2116	1,029	3
Other/unknown race/ethnicity ^a	0.536491	1.7146	0.5633	51	9.26	0.1590	0.1418	0.3589	5	0
2001–02 cohort	-0.006369	22.2985	0.5009	88	1,981.53	0.9612	0.9607	0.1642	94	6
Foreign born	-0.000753	19.8621	0.3452	91	3,310.44	0.9761	0.9758	0.1498	1,054	8
Physical sciences										
Total	-0.000137	19.5575	0.7435	96	692.02	0.8804	0.8791	0.3422	5,831	0
Male	-0.000168	20.4105	0.7247	94	793.30	0.8961	0.8950	0.3182	4,727	0
Female	-0.000924	19.6504	0.4083	95	2,316.51	0.9646	0.9642	0.1907	1,104	8
American Indian/Alaska Native	-0.021973	20.5115	0.5109	79	1,612.02	0.9578	0.9572	0.1747	30	6
Asian	-0.001015	25.3372	0.4145	91	3,735.68	0.9785	0.9783	0.1413	932	7
Black	-0.004596	11.1054	0.4094	89	735.85	0.8975	0.8963	0.2720	184	3
Hispanic	-0.003313	11.7338	0.4541	89	667.57	0.8847	0.8834	0.3000	260	0
White	-0.000189	21.0925	0.5464	91	1,490.15	0.9454	0.9448	0.2328	4,403	3
Other/unknown race/ethnicity	0.011862	13.1586	0.9884	71	177.24	0.7198	0.7157	0.3840	22	0
2001–02 cohort	-0.001811	19.7031	0.6020	94	1,071.05	0.9217	0.9208	0.2418	355	1
Foreign born	-0.000158	16.9657	0.4530	92	1,402.91	0.9416	0.9409	0.2392	4,556	3
Astronomy/astrophysics										
Total	-0.003629	19.7643	0.6053	95	1,066.07	0.9214	0.9205	0.2543	195	2
Male	-0.004697	21.0226	0.6211	93	1,145.81	0.9279	0.9271	0.2447	155	2
Female	-0.014647	15.2660	0.6218	84	602.71	0.8802	0.8788	0.2953	40	0
American Indian/Alaska Native	0.539856	1.7374	0.4202	44	17.09	0.2893	0.2723	0.2119	3	0

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Field and demographic group	<i>a</i>	<i>b</i>	<i>SE(b)</i>	Direct		<i>R</i> ²	Adjusted <i>R</i> ²	Root mean <i>SE</i>	Subgroup sample size	Outliers removed
				estimates	<i>F</i> -statistic					
Asian	-0.022489	23.0129	0.6104	71	1,421.25	0.9569	0.9562	0.1571	23	5
Black	-0.064310	3.6979	0.1682	53	483.33	0.9046	0.9027	0.2277	7	0
Hispanic	0.036168	4.0566	0.2896	63	196.18	0.7628	0.7589	0.2817	8	0
White	-0.004591	20.1668	0.5836	89	1,194.00	0.9328	0.9320	0.2330	152	1
Other/unknown race/ethnicity ^a	-0.469510	7.1533	0.1180	35	3,673.88	0.9911	0.9908	0.0419	2	0
2001–02 cohort	-0.022652	17.6397	0.7414	70	566.08	0.8928	0.8912	0.2418	19	0
Foreign born	-0.002681	12.1862	0.3905	90	973.94	0.9189	0.9179	0.2585	165	2
Chemistry, except biochemistry										
Total	-0.000264	19.3955	0.7343	96	697.66	0.8813	0.8800	0.3442	2,961	0
Male	-0.000340	20.3786	0.7297	94	779.83	0.8945	0.8933	0.3235	2,317	0
Female	-0.001494	20.5158	0.3813	95	2,894.60	0.9718	0.9715	0.1702	644	9
American Indian/Alaska Native	-0.042382	18.7751	0.8750	68	460.45	0.8746	0.8727	0.2892	14	0
Asian	-0.001782	24.1042	0.5197	89	2,151.45	0.9624	0.9620	0.1866	490	3
Black	-0.006552	12.8575	0.5708	87	507.46	0.8580	0.8563	0.3241	120	1
Hispanic	-0.006182	12.2667	0.5741	89	456.54	0.8399	0.8381	0.3618	138	0
White	-0.000384	21.7869	0.3907	91	3,109.88	0.9746	0.9743	0.1618	2,187	8
Other/unknown race/ethnicity ^a	0.055718	11.1837	1.0017	70	124.65	0.6470	0.6418	0.4058	12	0
2001–02 cohort	-0.003647	19.8705	0.6713	91	876.27	0.9087	0.9077	0.2611	170	1
Foreign born	-0.000306	17.3671	0.2993	92	3,368.09	0.9768	0.9765	0.1548	2,364	10
Earth/atmospheric/ocean sciences										
Total	-0.000809	18.5522	0.6329	96	859.12	0.9014	0.9003	0.2941	977	0
Male	-0.001025	19.7259	0.6105	94	1,043.97	0.9190	0.9181	0.2658	746	0
Female	-0.003719	13.5426	0.5952	94	517.77	0.8491	0.8475	0.3734	231	0
American Indian/Alaska Native	-0.084573	22.8041	0.8716	56	684.52	0.9319	0.9306	0.1939	7	4
Asian	-0.006206	17.1052	0.6295	86	738.31	0.8989	0.8977	0.2795	124	1
Black	-0.022911	5.9119	0.2624	67	507.46	0.8865	0.8847	0.2478	15	0
Hispanic	-0.002966	8.3201	0.6051	84	189.09	0.6975	0.6938	0.4653	52	0
White	-0.001068	20.5508	0.5233	90	1,542.30	0.9472	0.9466	0.2172	774	2
Other/unknown race/ethnicity ^a	0.555074	1.0828	0.3082	45	12.34	0.2230	0.2050	0.2942	5	0
2001–02 cohort	-0.009682	17.6635	0.8135	85	471.45	0.8503	0.8485	0.3365	68	0
Foreign born	-0.000794	14.7083	0.3684	90	1,594.01	0.9499	0.9493	0.2141	761	4
Physics										
Total	-0.000448	20.5253	0.7468	95	755.33	0.8904	0.8892	0.3125	1,698	0
Male	-0.000493	20.8922	0.7415	94	793.87	0.8961	0.8950	0.3044	1,509	0
Female	-0.004469	16.5094	0.5980	93	762.18	0.8944	0.8932	0.3002	189	1
American Indian/Alaska Native	-0.099621	23.0048	0.8939	66	662.29	0.9119	0.9105	0.2235	6	0
Asian	-0.002927	26.0959	0.4939	90	2,791.24	0.9708	0.9704	0.1551	295	4
Black	-0.011752	9.3381	0.4485	83	433.50	0.8426	0.8406	0.3241	42	0
Hispanic	-0.002484	11.2248	0.6889	80	265.48	0.7729	0.7700	0.3812	62	0
White	-0.000629	21.7754	0.5748	90	1,434.96	0.9441	0.9434	0.2229	1,290	3
Other/unknown race/ethnicity ^a	0.279766	3.6832	0.2806	43	172.29	0.8193	0.8145	0.1536	3	3
2001–02 cohort	-0.004684	20.2299	0.6731	86	903.22	0.9158	0.9148	0.2328	98	1
Foreign born	-0.000627	19.8682	0.3273	90	3,684.52	0.9793	0.9790	0.1404	1,266	10
Psychology										
Total	-0.000193	20.6429	0.6987	96	872.91	0.9028	0.9017	0.3077	4,136	0
Male	-0.000419	22.3267	0.5623	95	1,576.34	0.9466	0.9460	0.2311	2,040	4
Female	-0.000438	23.3069	0.3718	95	3,929.58	0.9791	0.9788	0.1481	2,096	9
American Indian/Alaska Native	0.000037	16.4603	1.0368	79	252.06	0.7683	0.7653	0.3690	62	1
Asian	-0.004538	15.7782	0.5947	90	703.99	0.8900	0.8887	0.2957	219	1
Black	-0.004902	21.2445	0.4329	90	2,408.39	0.9667	0.9663	0.1683	190	5
Hispanic	-0.003003	14.5142	0.4422	89	1,077.52	0.9261	0.9252	0.2345	219	1
White	-0.000246	23.2293	0.4375	91	2,819.74	0.9711	0.9707	0.1667	3,435	5
Other/unknown race/ethnicity ^a	0.057020	8.8875	0.9417	59	89.06	0.6140	0.6071	0.3769	11	1
2001–02 cohort	-0.001985	19.1577	0.5470	95	1,226.70	0.9302	0.9295	0.2325	365	1
Foreign born	-0.000077	7.8326	0.1298	92	3,638.67	0.9788	0.9785	0.1407	3,855	11

TABLE B-1. Estimated generalized variance function parameters and relevant model fitting statistics

Field and demographic group	<i>a</i>	<i>b</i>	<i>SE(b)</i>	Direct estimates	<i>F</i> -statistic	<i>R</i> ²	Adjusted <i>R</i> ²	Root mean <i>SE</i>	Subgroup sample size	Outliers removed
Social sciences										
Total	-0.000211	20.9866	0.7409	95	802.39	0.8961	0.8950	0.3079	4,081	0
Male	-0.000353	23.8695	0.7610	94	983.90	0.9145	0.9136	0.2774	2,447	0
Female	-0.000550	17.3581	0.3309	93	2,751.26	0.9711	0.9707	0.1720	1,634	9
American Indian/Alaska Native	-0.011298	21.7442	0.5417	82	1,611.08	0.9538	0.9532	0.1660	52	2
Asian	-0.002597	23.7543	0.5116	90	2,156.04	0.9629	0.9625	0.1790	404	5
Black	-0.002046	12.3590	0.4265	89	839.88	0.9081	0.9070	0.2618	412	2
Hispanic	-0.002782	10.4691	0.4319	90	587.66	0.8698	0.8683	0.3177	312	0
White	-0.000297	24.1571	0.5669	90	1,815.57	0.9553	0.9548	0.2023	2,885	3
Other/unknown race/ethnicity ^a	0.073687	7.8545	1.0417	71	56.86	0.4518	0.4438	0.5732	16	0
2001–02 cohort	-0.002055	19.4060	0.5247	94	1,367.83	0.9389	0.9382	0.2177	370	3
Foreign born	-0.000221	17.9760	0.3613	90	2,474.86	0.9687	0.9683	0.1751	3,286	8
Economics										
Total	-0.000824	23.4131	0.8585	95	743.83	0.8889	0.8877	0.3164	1,048	0
Male	-0.001093	25.4745	0.8753	94	846.96	0.9020	0.9010	0.2959	776	0
Female	-0.003213	16.3332	0.6170	92	700.80	0.8862	0.8849	0.3282	272	0
American Indian/Alaska Native	-0.088663	22.5797	0.9223	55	599.37	0.9188	0.9172	0.2178	7	0
Asian	-0.006152	24.9323	0.8154	87	935.01	0.9176	0.9166	0.2688	152	1
Black	-0.004282	10.9091	0.6979	86	244.34	0.7442	0.7411	0.4323	73	0
Hispanic	-0.000882	11.4209	0.7545	85	229.10	0.7388	0.7356	0.3781	61	2
White	-0.001186	26.0836	0.6886	90	1,434.84	0.9435	0.9428	0.2266	753	2
Other/unknown race/ethnicity ^a	0.588023	2.1602	0.4819	40	20.09	0.3459	0.3287	0.2135	2	0
2001–02 cohort	-0.007281	19.1124	0.9147	82	436.56	0.8451	0.8432	0.3253	72	0
Foreign born	-0.001132	23.2661	0.4607	90	2,550.02	0.9696	0.9692	0.1736	758	8
Political sciences										
Total	-0.000948	23.4096	0.6895	95	1,152.79	0.9268	0.9260	0.2474	863	2
Male	-0.001390	25.7171	0.7054	94	1,329.18	0.9359	0.9352	0.2293	571	1
Female	-0.002903	18.7270	0.4734	93	1,564.75	0.9473	0.9467	0.2100	292	4
American Indian/Alaska Native	0.019377	15.4170	1.5907	63	93.94	0.6063	0.5998	0.4828	10	0
Asian	-0.013347	25.5779	0.8171	85	979.90	0.9237	0.9227	0.2274	64	2
Black	-0.004235	14.2521	0.6384	87	498.35	0.8617	0.8599	0.2711	102	5
Hispanic	-0.008268	10.1770	0.5956	79	291.96	0.7913	0.7886	0.3742	60	0
White	-0.001230	25.1351	0.5267	89	2,277.29	0.9644	0.9640	0.1719	623	3
Other/unknown race/ethnicity ^a	-0.078988	5.4887	0.2901	48	358.07	0.8862	0.8837	0.1792	4	0
2001–02 cohort	-0.010053	20.3814	0.6086	87	1,121.52	0.9303	0.9295	0.2361	84	1
Foreign born	-0.000803	17.1865	0.4428	89	1,506.34	0.9472	0.9466	0.2103	733	3
Sociology										
Total	-0.000861	17.8861	0.6163	95	842.16	0.9006	0.8995	0.2849	871	0
Male	-0.001766	20.2101	0.5736	92	1,241.56	0.9338	0.9331	0.2359	466	2
Female	-0.001901	16.8120	0.6125	93	753.42	0.8922	0.8911	0.2995	405	0
American Indian/Alaska Native	-0.060108	16.2685	1.3803	58	138.92	0.7127	0.7076	0.4083	8	0
Asian	-0.003540	15.0376	1.1244	87	178.87	0.6805	0.6766	0.4798	67	1
Black	-0.004308	8.0801	0.3544	87	519.91	0.8609	0.8593	0.3050	118	1
Hispanic	-0.007511	6.1618	0.2770	85	495.01	0.8564	0.8547	0.3208	74	0
White	-0.001238	20.4698	0.4323	90	2,242.08	0.9639	0.9635	0.1756	600	4
Other/unknown race/ethnicity ^a	0.002224	4.8936	0.0611	50	6,411.78	0.9926	0.9924	0.0428	4	0
2001–02 cohort	-0.010339	16.0442	0.7656	88	439.12	0.8362	0.8343	0.3657	72	0
Foreign born	-0.000639	11.1547	0.2252	90	2,453.62	0.9684	0.9680	0.1687	729	8
Other social sciences										
Total	-0.000563	20.5021	0.6650	95	950.64	0.9109	0.9099	0.2625	1,299	0
Male	-0.001072	23.8745	0.6921	94	1,189.84	0.9282	0.9274	0.2303	634	0
Female	-0.001228	17.9948	0.3746	93	2,307.55	0.9645	0.9641	0.1736	665	6
American Indian/Alaska Native	0.011433	18.0296	0.9673	79	347.42	0.8225	0.8201	0.2819	27	2
Asian	-0.006162	20.4162	0.7502	90	740.71	0.8938	0.8926	0.2761	121	0
Black	-0.004245	11.0284	0.5269	86	438.08	0.8391	0.8372	0.3351	119	0
Hispanic	-0.003311	8.8323	0.4192	87	444.00	0.8425	0.8406	0.3078	117	2

TABLE B-1. Estimated generalized variance function parameters and relevant model fitting statistics

Field and demographic group	<i>a</i>	<i>b</i>	<i>SE(b)</i>	Direct		<i>R</i> ²	Adjusted <i>R</i> ²	Root mean <i>SE</i>	Subgroup sample size	Outliers removed
				estimates	<i>F</i> -statistic					
White	-0.000811	23.2130	0.5234	90	1,967.15	0.9590	0.9586	0.1786	909	4
Other/unknown race/ethnicity ^a	0.440744	3.2954	0.8231	60	16.03	0.2165	0.2030	0.4762	6	0
2001–02 cohort	-0.004109	18.2276	0.4880	92	1,395.39	0.9419	0.9413	0.1995	142	4
Foreign born	-0.000529	15.5754	0.3444	90	2,044.70	0.9610	0.9605	0.1761	1,066	5
Engineering										
Total	-0.000180	22.6083	0.8217	96	757.05	0.8895	0.8884	0.3272	4,817	0
Male	-0.000203	23.3534	0.7964	95	859.80	0.9024	0.9013	0.3056	4,202	0
Female	-0.001517	16.9764	0.6192	95	751.56	0.8899	0.8887	0.3188	615	0
American Indian/Alaska Native	-0.027579	21.4929	0.8279	70	673.98	0.9120	0.9107	0.2396	20	3
Asian	-0.000667	27.6871	0.6243	91	1,966.91	0.9586	0.9581	0.1931	1,342	4
Black	-0.001593	13.7620	0.7617	90	326.39	0.7895	0.7871	0.3781	221	1
Hispanic	-0.004499	12.9924	0.5113	90	645.82	0.8837	0.8823	0.2963	215	3
White	-0.000304	24.0596	0.4900	90	2,411.39	0.9671	0.9667	0.1811	3,009	6
Other/unknown race/ethnicity ^a	0.024901	23.9509	1.8145	61	174.23	0.7470	0.7427	0.2956	10	0
2001–02 cohort	-0.001654	22.5603	0.6018	95	1,405.47	0.9392	0.9385	0.2135	399	2
Foreign born	-0.000309	21.8697	0.5440	91	1,616.37	0.9495	0.9489	0.2182	2,974	3
Aerospace/aeronautical/astronautical engineering										
Total	-0.002764	23.8775	0.7674	89	968.24	0.9176	0.9166	0.2371	200	0
Male	-0.003030	23.6834	0.7448	88	1,011.26	0.9233	0.9224	0.2246	184	2
Female	0.024450	13.0655	0.9212	73	201.16	0.7391	0.7355	0.3654	16	0
American Indian/Alaska Native	NA	NA	NA	NA	NA	NA	NA	NA	1	NA
Asian	-0.011892	26.6550	1.2500	79	454.69	0.8552	0.8533	0.3083	38	0
Black	0.126655	3.6687	0.8107	61	20.48	0.2609	0.2482	0.5757	11	1
Hispanic	0.173661	5.9271	0.8753	59	45.85	0.4458	0.4361	0.4292	6	0
White	-0.004506	24.5825	0.7666	85	1,028.29	0.9253	0.9244	0.2325	144	0
Other/unknown race/ethnicity ^a	NA	NA	NA	NA	NA	NA	NA	NA	0	NA
2001–02 cohort	-0.032526	22.5549	0.9623	63	549.36	0.9001	0.8984	0.2446	18	0
Foreign born	-0.004483	21.7242	0.7592	84	818.83	0.9100	0.9089	0.2634	142	1
Chemical engineering										
Total	-0.000979	22.0495	0.7713	94	817.26	0.8988	0.8977	0.2798	682	0
Male	-0.001192	22.7746	0.7573	93	904.36	0.9086	0.9076	0.2701	584	0
Female	-0.006609	18.0560	0.4744	88	1,448.77	0.9477	0.9470	0.1966	98	6
American Indian/Alaska Native	0.095104	9.6870	1.7116	53	32.03	0.3858	0.3737	0.5990	5	0
Asian	-0.003430	25.1623	0.6327	89	1,581.57	0.9507	0.9501	0.1967	183	5
Black	0.005902	9.0348	0.9389	75	92.60	0.5626	0.5565	0.5197	28	1
Hispanic	0.013443	8.7136	0.7425	82	137.74	0.6414	0.6368	0.4275	31	3
White	-0.001777	23.3493	0.7028	90	1,103.74	0.9262	0.9253	0.2439	435	0
Other/unknown race/ethnicity ^a	NA	NA	NA	NA	NA	NA	NA	NA	0	NA
2001–02 cohort	-0.012471	21.6942	0.7952	86	744.28	0.8986	0.8974	0.2669	55	0
Foreign born	-0.001710	20.9397	0.6435	89	1,058.86	0.9249	0.9240	0.2512	458	1
Civil engineering										
Total	-0.001572	24.6537	0.5673	95	1,888.92	0.9555	0.9550	0.1842	420	5
Male	-0.001750	25.2248	0.6067	94	1,728.71	0.9516	0.9510	0.1924	379	4
Female	-0.012219	17.9137	0.8178	87	479.81	0.8495	0.8477	0.3247	41	0
American Indian/Alaska Native	-0.098496	15.1263	1.8174	43	69.27	0.6282	0.6191	0.4028	3	0
Asian	-0.005696	28.0127	0.6560	86	1,823.31	0.9580	0.9574	0.1696	93	4
Black	0.018071	16.3507	1.1687	72	195.74	0.7394	0.7356	0.3552	22	1
Hispanic	-0.005003	10.5335	0.8318	71	160.36	0.6992	0.6948	0.4450	21	0
White	-0.002678	24.7463	0.7825	89	1,000.18	0.9200	0.9191	0.2478	279	0
Other/unknown race/ethnicity ^a	0.829862	0.9266	0.2913	39	10.12	0.2148	0.1936	0.1252	2	0
2001–02 cohort	-0.011496	20.6388	0.8755	76	555.72	0.8839	0.8823	0.2597	31	1
Foreign born	-0.003454	22.4963	0.4143	90	2,949.02	0.9733	0.9729	0.1516	240	7

TABLE B-1. Estimated generalized variance function parameters and relevant model fitting statistics

Field and demographic group	<i>a</i>	<i>b</i>	<i>SE(b)</i>	Direct		<i>R</i> ²	Adjusted <i>R</i> ²	Root mean <i>SE</i>	Subgroup sample size	Outliers removed
				estimates	<i>F</i> -statistic					
Electrical/computer engineering										
Total	-0.000652	22.6929	0.8632	96	691.18	0.8803	0.8790	0.3386	1,355	0
Male	-0.000742	24.0369	0.8660	95	770.40	0.8923	0.8911	0.3201	1,167	0
Female	-0.003879	9.9816	0.4049	91	607.83	0.8723	0.8708	0.3388	188	0
American Indian/Alaska Native	0.021742	21.7314	1.3553	56	257.10	0.8264	0.8232	0.2438	5	0
Asian	-0.002134	26.3656	0.6544	90	1,623.07	0.9508	0.9502	0.2117	438	4
Black	0.006432	8.4719	0.7758	87	119.25	0.5896	0.5847	0.5148	72	2
Hispanic	-0.006486	9.8467	0.5839	83	284.37	0.7783	0.7756	0.3940	62	0
White	-0.001222	25.0941	0.5632	90	1,985.14	0.9603	0.9598	0.1984	776	6
Other/unknown race/ethnicity ^a	0.421428	3.2599	0.5188	39	39.48	0.5162	0.5031	0.2015	2	0
2001–02 cohort	-0.005111	23.5094	0.6272	89	1,404.85	0.9448	0.9442	0.1978	108	5
Foreign born	-0.001377	24.0713	0.5818	91	1,711.67	0.9532	0.9527	0.2129	774	5
Materials/metallurgical engineering										
Total	-0.001253	22.6196	0.6676	95	1,147.95	0.9258	0.9250	0.2297	501	1
Male	-0.001462	23.1809	0.6793	94	1,164.51	0.9275	0.9267	0.2278	430	1
Female	-0.009082	20.1071	0.7132	88	794.87	0.9024	0.9012	0.2661	71	0
American Indian/Alaska Native	-0.110168	22.1778	1.0308	44	462.90	0.9168	0.9148	0.1676	3	0
Asian	-0.003909	27.3769	0.7230	89	1,433.79	0.9428	0.9421	0.1973	144	0
Black	0.025115	6.3523	0.5148	63	152.24	0.7241	0.7194	0.3130	17	3
Hispanic	0.039364	9.0337	0.8807	74	105.22	0.5971	0.5914	0.4426	21	1
White	-0.002226	23.0614	0.5798	90	1,581.94	0.9490	0.9484	0.1920	314	3
Other/unknown race/ethnicity ^a	0.479533	10.1219	1.7051	44	35.24	0.4562	0.4433	0.2075	2	0
2001–02 cohort	-0.013738	23.4377	0.8866	78	698.80	0.9019	0.9006	0.2379	31	0
Foreign born	-0.002143	21.5929	0.6476	90	1,111.92	0.9298	0.9289	0.2350	321	4
Mechanical engineering										
Total	-0.001017	22.7577	0.7120	96	1,021.50	0.9157	0.9148	0.2532	643	0
Male	-0.001054	23.0028	0.7044	94	1,066.47	0.9206	0.9197	0.2433	595	0
Female	-0.009820	19.7250	0.9463	88	434.44	0.8348	0.8328	0.3361	48	0
American Indian/Alaska Native	NA	NA	NA	NA	NA	NA	NA	NA	1	NA
Asian	-0.003336	27.0113	0.5611	91	2,317.45	0.9658	0.9654	0.1610	203	7
Black	0.004155	11.2563	1.1330	76	98.70	0.5715	0.5657	0.5470	24	0
Hispanic	0.004654	10.1972	0.7853	77	168.60	0.7037	0.6995	0.3797	27	4
White	-0.001711	23.3274	0.6417	90	1,321.58	0.9376	0.9369	0.2147	386	0
Other/unknown race/ethnicity ^a	0.351461	8.7745	1.2138	39	52.26	0.5855	0.5743	0.1921	2	0
2001–02 cohort	-0.006533	20.7788	0.7190	84	835.12	0.9116	0.9105	0.2397	69	1
Foreign born	-0.001903	21.1689	0.4855	89	1,901.01	0.9582	0.9577	0.1788	377	4
Other engineering										
Total	-0.000761	24.7769	0.7455	95	1,104.69	0.9224	0.9215	0.2465	1,016	0
Male	-0.000906	25.8649	0.7333	94	1,244.22	0.9311	0.9304	0.2336	863	0
Female	-0.004536	19.7698	0.5176	90	1,458.92	0.9449	0.9443	0.1950	153	3
American Indian/Alaska Native	-0.012223	20.1471	0.0246	41	669,820.87	0.9999	0.9999	0.0026	2	0
Asian	-0.002668	28.5682	0.6841	89	1,744.00	0.9546	0.9540	0.1805	243	4
Black	0.030972	9.4154	0.9769	80	92.90	0.5468	0.5409	0.4945	47	1
Hispanic	-0.016149	14.3097	0.9696	85	217.83	0.7241	0.7208	0.4717	47	0
White	-0.001181	25.4077	0.5896	90	1,857.31	0.9557	0.9552	0.1868	675	2
Other/unknown race/ethnicity ^a	0.765964	2.4418	0.5683	42	18.46	0.3158	0.2987	0.1444	2	0
2001–02 cohort	-0.006459	21.3168	0.7621	89	782.48	0.8999	0.8988	0.2609	87	0
Foreign born	-0.001187	23.0981	0.5401	90	1,829.10	0.9556	0.9551	0.1898	662	3
Health										
Total	-0.000629	17.4113	0.6133	95	806.05	0.8966	0.8954	0.3113	1,373	0
Male	-0.001663	19.7304	0.6170	93	1,022.51	0.9191	0.9182	0.2711	523	1
Female	-0.001045	16.7579	0.5837	94	824.21	0.8996	0.8985	0.3079	850	0
American Indian/Alaska Native	0.019797	11.7617	1.0809	68	118.40	0.6421	0.6367	0.4622	15	0
Asian	-0.006341	21.0036	0.4752	90	1,953.89	0.9597	0.9592	0.1898	173	6
Black	-0.004887	8.6154	0.3734	85	532.22	0.8679	0.8663	0.3096	133	2
Hispanic	-0.005030	6.6158	0.3312	87	398.92	0.8244	0.8223	0.3531	102	0

TABLE B-1. Estimated generalized variance function parameters and relevant model fitting statistics

Field and demographic group	<i>a</i>	<i>b</i>	<i>SE(b)</i>	Direct estimates	<i>F</i> -statistic	<i>R</i> ²	Adjusted <i>R</i> ²	Root mean <i>SE</i>	Subgroup sample size	Outliers removed
White	-0.000899	19.6469	0.3482	90	3,182.95	0.9743	0.9740	0.1565	947	4
Other/unknown race/ethnicity ^a	0.300432	3.6115	0.4386	47	67.81	0.6011	0.5922	0.2484	3	0
2001–02 cohort	-0.004110	15.9899	0.5886	94	738.07	0.8892	0.8880	0.2998	179	0
Foreign born	-0.000588	13.4539	0.2033	90	4,381.48	0.9821	0.9818	0.1327	1,121	8

NA = not available.

^a Includes Native Hawaiians/other Pacific Islanders and respondents choosing multiple races (excluding those selecting a Hispanic ethnicity).

NOTE: Race/ethnicity data are for all doctorate recipients, including temporary residents.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2003 Survey of Doctorate Recipients.