

APPENDIX C. 2001 SDR GENERALIZED VARIANCE FUNCTION (GVF) TABLES

Listing of generalized variance parameters for selected demographic groups in science and engineering fields, 2001

Characteristic	Estimated parameters	
	<i>a</i>	<i>b</i>
All fields	-0.000028	19.1283
Female	-0.000099	17.0956
White	-0.00003	19.4857
Asian/Pacific Islander	-0.000131	21.9566
Black	-0.000076	12.8782
American Indian/Alaskan Native	-0.000072	11.5827
Hispanic	-0.000087	14.4768
1999-2000 Cohort	-0.000309	15.4688
Foreign born	-0.000132	21.0129
Sciences, total	-0.000034	19.4829
Female	-0.000094	16.1453
White	-0.000034	19.2378
Asian/Pacific Islander	-0.000116	19.4694
Black	-0.000077	13.0515
American Indian/Alaskan Native	-0.000076	12.1803
Hispanic	-0.00008	13.3279
1999-2000 Cohort	-0.000287	14.3546
Foreign born	-0.000103	16.3642
Computer and math sciences, total	-0.000381	16.8731
Female	-0.000222	9.8184
White	-0.000389	17.2520
Asian/Pacific Islander	-0.000383	16.9694
Black	-0.000253	11.2202
American Indian/Alaskan Native	-0.000018	0.8124
Hispanic	-0.000288	12.7357
1999-2000 Cohort	-0.000232	10.2829
Foreign born	-0.00031	13.7385
Computer and information sciences	-0.001247	16.3704
Female	-0.000474	6.2276
White	-0.001223	16.0666
Asian/Pacific Islander	-0.001033	13.5687
Black	-0.000752	9.8719
American Indian/Alaskan Native	-0.000051	0.6726
Hispanic	-0.000862	11.3261
1999-2000 Cohort	-0.000732	9.6164
Foreign born	-0.000862	11.3257
Mathematical sciences	-0.000597	18.6114
Female	-0.000385	12.0113
White	-0.00061	19.0200
Asian/Pacific Islander	-0.000622	19.3835
Black	-0.000369	11.4929
American Indian/Alaskan Native	-0.000029	0.9106
Hispanic	-0.000428	13.3363
1999-2000 Cohort	-0.000364	11.3430
Foreign born	-0.000492	15.3365

Listing of generalized variance parameters for selected demographic groups in science and engineering fields, 2001 (continued)

Characteristic	Estimated parameters	
	<i>a</i>	<i>b</i>
Biological and agricultural sciences	-0.000103	17.4486
Female	-0.000078	13.2620
White	-0.000101	17.2135
Asian/Pacific Islander	-0.000104	17.6126
Black	-0.00007	11.7244
American Indian/Alaskan Native	-0.000057	9.1697
Hispanic	-0.00008	13.3073
1999-2000 Cohort	-0.000257	12.8798
Foreign born	-0.000099	15.6476
Agricultural/food sciences	-0.000672	20.3185
Female	-0.00042	12.6843
White	-0.000649	19.6019
Asian/Pacific Islander	-0.000659	19.9046
Black	-0.000551	16.6590
American Indian/Alaskan Native	-0.00046	13.8981
Hispanic	-0.000408	12.3303
1999-2000 Cohort	-0.000413	12.4706
Foreign born	-0.000523	15.7952
Biological sciences	-0.000135	18.9125
Female	-0.000097	13.5291
White	-0.000129	17.9732
Asian/Pacific Islander	-0.00012	16.7908
Black	-0.000081	11.2535
American Indian/Alaskan Native	-0.000065	9.0675
Hispanic	-0.00009	12.6347
1999-2000 Cohort	-0.000273	13.6500
Foreign born	-0.000112	15.7106
Environmental life sciences	-0.000690	20.8535
Female	-0.000473	14.2879
White	-0.000716	21.6510
Asian/Pacific Islander	-0.000556	16.8109
Black	-0.000215	6.4871
American Indian/Alaskan Native	-0.000051	1.5486
Hispanic	-0.000541	16.3519
1999-2000 Cohort	-0.000489	14.7811
Foreign born	-0.000642	19.4140
Health sciences	-0.00069	20.8535
Female	-0.000473	14.2879
White	-0.000716	21.6510
Asian/Pacific Islander	-0.000556	16.8109
Black	-0.000215	6.4871
American Indian/Alaskan Native	-0.000051	1.5486
Hispanic	-0.000541	16.3519
1999-2000 Cohort	-0.000489	14.7811
Foreign born	-0.000642	19.4140

Listing of generalized variance parameters for selected demographic groups in science and engineering fields, 2001 (continued)

Characteristic	Estimated parameters	
	<i>a</i>	<i>b</i>
Physical and related sciences	-0.000124	17.0518
Female	-0.000089	12.2466
White	-0.000122	16.7679
Asian/Pacific Islander	-0.000122	16.8123
Black	-0.000077	10.5544
American Indian/Alaskan Native	-0.000063	8.7083
Hispanic	-0.000088	12.0158
1999-2000 Cohort	-0.000233	11.6801
Foreign born	-0.000108	14.8565
Chemistry (except Biochemistry)	-0.00029	20.5091
Female	-0.000171	12.1086
White	-0.000263	18.6259
Asian/Pacific Islander	-0.000254	17.9942
Black	-0.000167	11.8604
American Indian/Alaskan Native	-0.000167	11.8471
Hispanic	-0.000171	12.1224
1999-2000 Cohort	-0.000239	11.9509
Foreign born	-0.000237	16.7749
Earth/atmospheric/ocean sciences	-0.000895	17.6489
Female	-0.000549	10.8361
White	-0.000908	17.9223
Asian/Pacific Islander	-0.000715	14.1113
Black	-0.000271	5.3517
American Indian/Alaskan Native	-0.000153	3.0189
Hispanic	-0.00046	9.0655
1999-2000 Cohort	-0.000556	10.9594
Foreign born	-0.000549	10.8370
Physics and astronomy	-0.000449	21.0059
Female	-0.00025	11.6870
White	-0.000419	19.5868
Asian/Pacific Islander	-0.000429	20.0684
Black	-0.000157	7.3342
American Indian/Alaskan Native	-0.000232	10.8595
Hispanic	-0.000312	14.5881
1999-2000 Cohort	-0.000297	13.8964
Foreign born	-0.000373	17.4532
Other physical sciences	-0.000298	19.7766
Female	-0.000228	15.1697
White	-0.000321	21.3606
Asian/Pacific Islander	-0.000275	18.2508
Black	-0.0003	19.9672
American Indian/Alaskan Native	-0.000045	2.9634
Hispanic	-0.000037	2.4469
1999-2000 Cohort	-0.000287	14.3633
Foreign born	-0.000241	16.0298

**Listing of generalized variance parameters for selected demographic groups in
science and engineering fields, 2001 (continued)**

Characteristic	Estimated parameters	
	<i>a</i>	<i>b</i>
Social sciences	-0.000094	17.8918
Female	-0.000081	13.8865
White	-0.000097	18.5409
Asian/Pacific Islander	-0.000093	15.6701
Black	-0.000076	12.8212
American Indian/Alaskan Native	-0.000079	12.5929
Hispanic	-0.000069	11.4960
1999-2000 Cohort	-0.000253	12.6520
Foreign born	-0.000091	14.5244
Economics	-0.000935	22.4879
Female	-0.000464	11.1507
White	-0.000975	23.4361
Asian/Pacific Islander	-0.000713	17.1534
Black	-0.00055	13.2321
American Indian/Alaskan Native	-0.000341	8.1962
Hispanic	-0.000480	11.5407
1999-2000 Cohort	-0.000501	12.0526
Foreign born	-0.000632	15.1916
Political and related sciences	-0.000596	23.5866
Female	-0.000392	15.5414
White	-0.000634	25.0978
Asian/Pacific Islander	-0.00048	18.9940
Black	-0.000345	13.6437
American Indian/Alaskan Native	-0.000526	20.8240
Hispanic	-0.000325	12.8817
1999-2000 Cohort	-0.000357	14.1463
Foreign born	-0.000489	19.3555
Sociology/archeology/anthropology	-0.000668	18.2944
Female	-0.000432	11.8249
White	-0.000689	18.8551
Asian/Pacific Islander	-0.000346	9.4700
Black	-0.000279	7.6335
American Indian/Alaskan Native	-0.000221	6.0553
Hispanic	-0.000289	7.9234
1999-2000 Cohort	-0.000363	9.9324
Foreign born	-0.000395	10.8037
Other social sciences	-0.000586	23.1957
Female	-0.000435	17.2352
White	-0.000636	25.2040
Asian/Pacific Islander	-0.000494	19.5434
Black	-0.000368	14.5827
American Indian/Alaskan Native	-0.000382	15.1132
Hispanic	-0.000328	12.9698
1999-2000 Cohort	-0.000366	14.4758
Foreign born	-0.000470	18.6049

Listing of generalized variance parameters for selected demographic groups in science and engineering fields, 2001 (continued)

Characteristic	Estimated parameters	
	<i>a</i>	<i>b</i>
Psychology	-0.000219	21.9804
Female	-0.000152	15.2372
White	-0.000196	19.6964
Asian/Pacific Islander	-0.000148	14.8587
Black	-0.000147	14.7580
American Indian/Alaskan Native	-0.000103	10.3337
Hispanic	-0.000129	12.9888
1999-2000 Cohort	-0.00027	13.4921
Foreign born	-0.000151	15.1402
Engineering, total	-0.000187	22.0785
Female	-0.000116	13.6823
White	-0.000175	20.6393
Asian/Pacific Islander	-0.00018	21.1582
Black	-0.000098	11.5378
American Indian/Alaskan Native	-0.000056	6.5619
Hispanic	-0.000123	14.5021
1999-2000 Cohort	-0.000266	13.3289
Foreign born	-0.000175	20.6500
Aerospace/astronautical engineering	-0.000284	25.3095
Female	-0.000194	17.3186
White	-0.00029	25.8116
Asian/Pacific Islander	-0.000269	23.9623
Black	-0.000118	10.5410
American Indian/Alaskan Native	-0.000045	4.0527
Hispanic	-0.00014	12.5197
1999-2000 Cohort	-0.000319	15.9511
Foreign born	-0.000267	23.7898
Chemical engineering	-0.000258	23.0302
Female	-0.000171	15.2148
White	-0.000256	22.7863
Asian/Pacific Islander	-0.000262	23.3859
Black	-0.000150	13.4078
American Indian/Alaskan Native	-0.000018	1.6325
Hispanic	-0.000178	15.8559
1999-2000 Cohort	-0.000308	15.4090
Foreign born	-0.000266	23.6700
Civil engineering	-0.000248	22.0918
Female	-0.000168	14.9749
White	-0.000241	21.4517
Asian/Pacific Islander	-0.000284	25.3170
Black	-0.000178	15.8912
American Indian/Alaskan Native	-0.00003	2.6637
Hispanic	-0.000185	16.4707
1999-2000 Cohort	-0.000317	15.8866
Foreign born	-0.000279	24.8459

Listing of generalized variance parameters for selected demographic groups in science and engineering fields, 2001 (continued)

Characteristic	Estimated parameters	
	<i>a</i>	<i>b</i>
Electrical/computer/communication engineering		
Female	-0.000851	24.3935
White	-0.000249	7.1386
Asian/Pacific Islander	-0.000752	21.5479
Black	-0.000655	18.7561
American Indian/Alaskan Native	-0.000300	8.6036
Hispanic	-0.000261	7.4756
1999-2000 Cohort	-0.000466	13.3559
Foreign born	-0.000397	11.3858
	-0.000613	17.5733
Metallurgical/materials engineering	-0.000265	23.5874
Female	-0.000211	18.7704
White	-0.000249	22.1711
Asian/Pacific Islander	-0.000285	25.3898
Black	-0.000128	11.4240
American Indian/Alaskan Native	-0.00005	4.4644
Hispanic	-0.000214	19.0951
1999-2000 Cohort	-0.000321	16.0545
Foreign born	-0.00029	25.8799
Mechanical engineering	-0.000286	25.4999
Female	-0.000198	17.6762
White	-0.000268	23.9268
Asian/Pacific Islander	-0.000264	23.5184
Black	-0.000142	12.6667
American Indian/Alaskan Native	-0.000085	7.5453
Hispanic	-0.00017	15.1635
1999-2000 Cohort	-0.000319	15.9835
Foreign born	-0.000276	24.5779
Other engineering	-0.000251	22.3898
Female	-0.000156	13.8687
White	-0.000244	21.7777
Asian/Pacific Islander	-0.000267	23.8203
Black	-0.000119	10.5779
American Indian/Alaskan Native	-0.000099	8.7807
Hispanic	-0.00016	14.2637
1999-2000 Cohort	-0.000286	14.3363
Foreign born	-0.000256	22.7739