

APPENDIX B

2010 NSCG

Coefficient of Variation (CV) Target

Table 1: 2010 NSCG Desired CV Levels - Broad Occupation by Demographic Group

BROAD OCCUPATION	DEMOGRAPHIC GROUP								
	USCAB or High Probability of U.S. Earned Degree						Low Probability of U.S. Earned Degree		
	Hispanic	Black	Asian	AIAN/ NHPI	Disabled	White	Hispanic	Asian	Residual
Computer Scientists	7.1%	5.6%	4.0%	10.3%	7.1%	1.9%	18.7%	3.4%	5.4%
Mathmatician	7.1%	5.6%	4.0%	10.3%	7.1%	1.9%	18.7%	3.4%	5.4%
Life Scientists	11.1%	11.8%	12.1%	25.8%	15.5%	4.0%	21.0%	6.9%	7.3%
Physical Scientists	10.0%	12.0%	11.0%	18.0%	20.4%	4.5%	24.0%	8.6%	8.4%
Psychologists	13.3%	18.7%	15.8%	25.0%	16.1%	5.1%	24.1%	30.0%	21.9%
Social Scientists	13.0%	14.6%	15.5%	30.0%	21.1%	5.5%	30.0%	17.8%	15.6%
Engineers	5.6%	8.0%	4.0%	15.3%	7.8%	4.0%	12.4%	5.0%	6.7%
Health-Related Occupations	4.4%	4.0%	4.1%	9.6%	7.3%	4.0%	14.6%	4.9%	7.2%
S&E-Related non-Health Occupations	6.2%	6.9%	6.3%	14.9%	8.9%	4.0%	15.7%	6.6%	7.5%
Post secondary teacher, S&E FOD	6.2%	6.9%	6.3%	14.9%	8.9%	4.0%	15.7%	6.6%	7.5%
Post secondary teacher, Non-S&E FOD	20.7%	15.9%	26.1%	29.2%	17.5%	5.4%	29.5%	20.3%	11.7%
Non-S&E Occupations, S&E FOD	3.4%	3.1%	3.7%	7.3%	4.8%	4.0%	8.9%	3.9%	4.8%
Non-S&E Occupations, Non-S&E FOD	20.7%	15.9%	26.1%	29.2%	17.5%	5.4%	29.5%	20.3%	11.7%
Secondary Teacher, S&E FOD	3.4%	3.1%	3.7%	7.3%	4.8%	4.0%	8.9%	3.9%	4.8%
Secondary teacher, Non-S&E	20.7%	15.9%	26.1%	29.2%	17.5%	5.4%	29.5%	20.3%	11.7%
Not Working, S&E FOD	5.8%	5.9%	5.1%	12.2%	5.2%	1.8%	15.3%	6.3%	6.2%
Not Working, Non-S&E FOD	26.0%	24.3%	19.2%	30.0%	13.5%	8.6%	30.0%	17.0%	12.0%

Notes:

- (1) CV = Coefficient of Variation
- (2) The total row and column CVs are approximated by the assumption of strata independence.
- (3) USCAB = U.S. Citizen at Birth
- (4) AIAN/NHPI = American Indian, Alaska Native / Native Hawaiian, Pacific Islander
- (5) S&E = Science and Engineering
- (6) FOD = Field of Degree

Table 2: 2010 NSCG Desired CV Levels - Broad Occupation by Highest Degree Level

BROAD OCCUPATION	HIGHEST DEGREE LEVEL		
	Bachelor's	Master's	Doctorate
Computer Scientist	1.7%	2.4%	9.7%
Mathematicaian	1.7%	2.4%	9.7%
Life Scientists	4.5%	5.1%	6.6%
Physical Scientists	5.5%	5.9%	8.9%
Psychologists	15.4%	4.9%	16.4%
Social Scientists	6.4%	6.9%	12.5%
Engineers	3.0%	4.0%	9.7%
Health-Related Occupations	6.0%	4.0%	14.7%
S&E-Related non-Health Occupations	6.0%	4.0%	14.7%
Post Secondary Teacher, S&E FOD	3.0%	4.0%	14.7%
Post Secondary Teacher, Non-S&E FOD	20.5%	10.0%	14.0%
Non-S&E Occupation, S&E FOD	4.0%	4.0%	7.3%
Non-S&E Occupation, Non-S&E FOD	20.5%	10.0%	14.0%
Secondary Teacher, S&E FOD	4.0%	4.0%	7.3%
Secondary teacher, non-S&E	20.5%	10.0%	14.0%
Not Working, S&E FOD	1.7%	2.5%	12.0%
Not Working, Non-S&E FOD	13.4%	7.0%	19.0%

Notes:

- (1) CV = Coefficient of Variation
- (2) The total row and column CVs are approximated by the assumption of strata independence.
- (3) S&E = Science and Engineering
- (4) FOD = Field of Degree
- (5) The Bachelor's degree column includes respondents with a Professional degree

Table 3: 2010 NSCG Desired CV Levels - Detailed Occupation by Highest Degree

Level DETAILED OCCUPATION	HIGHEST DEGREE LEVEL		
	Bachelor's	Master's	Doctorate
Computer Scientist	1.7%	2.4%	9.7%
Mathematician	1.7%	2.4%	9.7%
Biological/medical scientists	5.5%	6.0%	7.0%
Agriculture and other life scientists	5.5%	5.8%	6.7%
Chemists, except biochemists	3.0%	4.0%	12.3%
Physicists and other physical scientists	3.0%	4.0%	13.0%
Psychologists	15.4%	4.9%	16.4%
Economics	3.1%	4.0%	12.0%
Other social scientists	3.0%	4.0%	13.4%
Chemical engineers	3.0%	4.0%	25.8%
Civil and architectural engineers	3.0%	4.0%	30.0%
Electrical and computer engineers	3.0%	4.0%	14.2%
Mechanical engineers	3.0%	4.0%	27.2%
Other engineers	6.0%	8.0%	14.9%
Health-Related Occupations	6.0%	4.0%	14.7%
S&E-Related non-Health Occupations	3.0%	4.0%	14.7%
Post secondary teacher, S&E FOD	3.0%	4.0%	14.7%
Post secondary teacher, Non-S&E FOD	20.5%	10.0%	14.0%
Non-S&E Occupation, S&E FOD	4.0%	4.0%	7.3%
Non-S&E Occupation, Non-S&E FOD	20.5%	10.0%	14.0%
Secondary Teacher, S&E FOD	4.0%	4.0%	7.3%
Secondary Teacher, Non-S&E	20.5%	10.0%	14.0%
Not Working, S&E FOD	3.0%	4.0%	12.0%
Not Working, Non-S&E FOD	13.4%	15.0%	19.0%

Notes:

- (1) CV = Coefficient of Variation
- (2) The total row and column CVs are approximated by the assumption of strata independence.
- (3) S&E = Science and Engineering
- (4) FOD = Field of Degree
- (5) The Bachelor's degree column includes respondents with a Professional degree
- (6) Other engineers includes aerospace engineers, industrial engineers and other

Table 4: 2010 NSCG Sample Allocation - Secondary Analytical Domain (Broad Occupation by Race/Ethnicity by Gender)

Average of Proxy CV	AIAN		Asian		Black		Hispanic		NHPI		White/Other	
	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
Computer Scientist	20.6%	12.7%	4.3%	2.2%	8.1%	5.7%	10.6%	7.9%	46.5%	30.7%	2.8%	2.0%
Mathematicaian	39.2%	33.0%	6.9%	8.5%	9.3%	10.3%	12.3%	10.8%	112.1%	65.6%	3.7%	3.0%
Life Scientists	36.3%	36.1%	7.4%	6.8%	12.0%	16.7%	11.5%	12.9%	87.6%	63.2%	4.5%	3.8%
Physical Scientists	34.1%	24.7%	7.0%	6.7%	10.4%	13.7%	9.8%	9.0%	58.7%	49.7%	4.8%	2.6%
Psychologists	32.5%	49.7%	13.4%	21.7%	13.8%	24.2%	12.7%	16.5%	133.9%	70.3%	4.1%	6.4%
Social Scientists	34.0%	52.5%	8.5%	10.2%	10.6%	16.8%	13.1%	11.8%	75.7%		3.5%	3.7%
Engineers	35.7%	17.0%	6.0%	3.4%	11.7%	6.9%	8.9%	4.9%	64.6%	48.8%	5.8%	1.9%
Health-Related Occupations	10.1%	22.4%	2.8%	4.6%	3.5%	8.4%	4.2%	6.5%	23.9%	38.1%	2.1%	3.1%
S&E-Related non-Health Occupations	14.5%	15.2%	4.7%	4.5%	4.8%	5.8%	4.8%	5.0%	43.3%	38.5%	2.1%	2.0%
Post Secondary Teacher, S&E FOD	21.0%	24.1%	7.5%	5.2%	7.9%	8.9%	7.4%	9.2%	43.8%	88.8%	3.8%	3.1%
Post Secondary Teacher, Non-S&E FOD	30.6%	33.2%	12.5%	11.9%	10.8%	13.0%	13.3%	13.3%	36.1%	50.9%	3.7%	3.5%
Secondary Teacher, S&E FOD	20.9%	25.2%	14.2%	22.3%	8.5%	10.1%	8.1%	10.0%	98.9%	67.0%	4.4%	5.1%
Secondary teacher, non-S&E FOD	36.7%	31.5%	16.2%	22.6%	13.8%	14.9%	15.4%	17.8%	62.9%	166.0%	4.4%	5.8%
Non-S&E Occupation, Non-S&E FOD	16.2%	21.7%	7.2%	7.4%	5.8%	6.9%	6.8%	6.5%	63.2%	66.6%	2.3%	2.1%
Non-S&E Occupation, S&E FOD	9.1%	10.0%	3.1%	3.3%	3.5%	4.0%	3.9%	4.4%	32.5%	28.9%	5.0%	4.0%
Not Working, S&E FOD	25.9%	29.4%	8.3%	13.3%	12.4%	16.7%	10.7%	19.9%	62.5%	94.4%	4.3%	5.5%
Not Working, Non-S&E FOD	14.9%	16.7%	5.0%	6.6%	6.5%	7.9%	6.2%	9.1%	44.3%	60.2%	1.7%	2.8%

Notes:

- (1) CV = Coefficient of Variation
- (2) The total row and column CVs are approximated by the assumption of strata independence.
- (3) S&E = Science and Engineering
- (4) FOD = Field of Degree

Table 5: 2010 NSCG Sample Allocation - Secondary Analytical Domain 8 (Broad Occupation by Highest Degree Level by Gender)

Average of Proxy CV	Highest Degree Level by Gender					
	Bachelor's		Master		Doctorate	
	Female	Male	Female	Male	Female	Male
Broad Occupation						
Computer Science	2.9%	1.7%	3.9%	2.7%	16.9%	9.0%
Engineers	5.7%	1.9%	6.5%	2.9%	23.5%	7.6%
Health Occup	2.1%	3.0%	2.8%	6.3%	8.2%	7.1%
Life Scientists	4.7%	4.9%	6.9%	7.0%	8.4%	5.8%
Mathematics	3.6%	3.5%	5.4%	4.8%	11.0%	9.5%
Non-S&E Occup, Non-S&E FOD	2.4%	2.4%	4.0%	4.2%	15.9%	9.3%
Non-S&E Occup, S&E FOD	4.7%	4.3%	5.5%	4.4%	14.1%	8.1%
Not Working, Non-S&E FOD	3.7%	5.9%	5.6%	8.2%	20.6%	14.6%
Not Working, S&E FOD	1.8%	2.7%	3.4%	4.2%	12.7%	11.6%
Physical Scientists	3.6%	2.7%	5.9%	4.1%	12.0%	6.8%
Post-Secondary Teacher, Non-S&E FOD	6.2%	5.5%	4.9%	5.0%	6.1%	5.0%
Post-Secondary Teacher, S&E FOD	4.2%	4.1%	4.1%	5.1%	6.6%	4.3%
Psychologists	10.3%	14.3%	4.5%	8.5%	6.8%	9.4%
S&E-R non-Health Occup	2.3%	2.1%	2.4%	2.9%	14.2%	9.6%
Secondary Teacher, Non-S&E FOD	6.2%	6.8%	5.9%	6.5%	17.7%	17.9%
Secondary Teacher, S&E FOD	5.1%	5.7%	5.1%	6.4%	20.0%	16.3%
Social Scientists	3.7%	4.5%	5.6%	5.2%	15.8%	11.2%

(1) CV = Coefficient of Variation

(2) The total row and column CVs are approximated by the assumption of strata independence.

(3) S&E = Science and Engineering

(4) FOD = Field of Degree

(5) The Bachelor's degree column includes respondents with a Professional degree

