

1990 SURVEY OF SCIENCE  
SOCIAL SCIENCE AND ENGINEERING GRADUATES

CODING MANUAL

CARD ONE

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
1	1	<u>CARD NUMBER:</u> 1
	2-7	<u>CASE NUMBER:</u>
	8-11	<u>PROCESSING PACK #:</u>

PART I. EDUCATION

(12-53) Please list all undergraduate and graduate degrees, excluding honorary degree, that have been awarded to you. DO NOT include correspondence courses, on-the-job training, apprenticeships, or training at an employer's training school.

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12 Total Number of Degrees  
(Count Number Recorded in Q.1 Series)  
  
(1 - 6)

13-14 Highest Degree Obtained  
(USE SUPPLEMENT #2)

Q.1a Type of degree  
(USE SUPPLEMENT #2)

SKIP TO NEXT TYPE →

00-Inapplicable, degree type not awarded

Month and Year Degree Granted  
(CODE MONTH GIVEN. IF SEASON GIVEN  
CODE SEASON)

Month  
01-January  
.  
.  
12-December

98-Don't know  
99-No answer

SKIP TO NEXT TYPE →

00-Inapplicable, degree type not awarded

CARD            COLS.            QUESTION/CONTENT

1

(Q.1 Cont'd)

13-Fall  
 14-Winter  
 15-Spring  
 16-Summer

Year  
 (CODE LAST TWO DIGITS OF YEAR)

Blank-Inapplicable, degree type not  
 awarded

Q.1d Major Field  
 (USE CODES GIVEN IN SUPPLEMENT #1, DEGREE AND  
 EMPLOYMENT SPECIALITY LIST. BE SURE THAT CODE  
 AND DESCRIPTION MATCH; IF NOT, RECODE TO MATCH  
 DESCRIPTION)

997-Other specialities not on list  
 998-No answer, question left blank  
 999-Other specialities, speciality not  
 stated  
 000-Did not pursue any specific field  
 of study  
 Blank-Inapplicable, degree type not  
 awarded

Q.1a		Q.1c.		Q.1d.
Type of Degree	Cols.	Month	Year	Major Field
Bachelors	xxx	15-16	17-18	19-21
Masters	xxx	22-23	24-25	26-28
Doctorate	xxx	29-30	31-32	33-35
Other	36-37	38-39	40-41	42-44
Other	45-46	47-48	49-50	51-53

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
1	54	Q.2

Between January and May 1990, did you attend a college or university?

2-Yes, undergraduate, full-time  
3-Yes, undergraduate, part-time  
4-Yes, graduate, full-time  
5-Yes, graduate, part-time  
6-No  
7-Yes, status not specified  
9-No answer

SKIP TO Q.3 →

55-57	Q.2a
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What field of study did you pursue?  
(USE CODES GIVEN IN SUPPLEMENT #1, DEGREE AND EMPLOYMENT SPECIALITY LIST. BE SURE THAT CODE AND DESCRIPTION MATCH; IF NOT, RECODE TO MATCH DESCRIPTION)

000-Did not pursue any specific field of study  
Blank-Inapplicable, coded 6 in col. 54

**PART II. EMPLOYMENT STATUS**

58	Q.3
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During the Week of February 4, 1990 were you:

SKIP TO Q.7 →

SKIP TO Q.6a →

SKIP TO Q.5 →

1-Working full-time (35 hours or more at least in one position)  
2-Working part-time  
3-Not working, but seeking work  
4-Not working and not seeking work  
9-No answer

59	Q.4
----	-----

Were you seeking full-time work?

SKIP TO Q.7 →

1-Yes  
2-No  
9-No answer  
Blank-Inapplicable, coded 1,3, or 4 in col. 58

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
1	60	Q.5 Did you look for work at any time during the three weeks <u>prior</u> to the week of February 4, 1990 that is, between January 14 and February 3, 1990? <hr/> 1-Yes 2-No  9-No answer Blank-Inapplicable, coded 1,2, or 3 in col. 58
61-62	Q.6	What was the <u>main</u> reason you were not working or not seeking work during the week of February 4, 1990? <hr/>
		<div style="border: 1px solid black; display: inline-block; padding: 2px;">SKIP TO Q.7</div> → → 01-On layoff from a job → 02-On vacation or temporarily absent from a job health or personal reasons → 03-Retired → 04-Student → 05-Family responsibilities <div style="border: 1px solid black; display: inline-block; padding: 2px;">SKIP TO Q.9</div> → 06-Chronic illness or permanent disability → 07-Could not find work or believed no work available in my particular field → 08-Did not want to work → 09-New job to begin within 30 days → 10-Waiting for school to begin → 11-Other reason → 12-Relocated, moved, etc. → 13-Already had job offer  99-No answer Blank-Inapplicable, coded 1,2, or 3 in col. 58
63	Q.6a	If you were unemployed and seeking employment during the week of was your job search <u>restricted by</u> : <hr/>
		<div style="border: 1px solid black; display: inline-block; padding: 2px;">SKIP TO Q.9</div> → → 1-Geographic location → 2-Family responsibilities → 3-Need for part-time employment → 4-Other restriction → 5-Not restricted  9-No answer Blank-Inapplicable, coded 1,2, or 4 in col. 58

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
1	64 Q.7	During the week of February 4, 1990, were you working at (or on layoff of temporarily absent from) a position related to the natural sciences, social sciences or engineering? <hr/> 1-Yes 2-No  9-No answer Blank-Inapplicable, coded 3 in col. 58 or coded 3-13, 99 in cols. 61-62
<div style="border: 1px solid black; padding: 2px; display: inline-block;">SKIP TO Q.9</div> →		
	65-66 Q.8	What was the most important reason that you were not working at a position related to science or engineering? <hr/> 01-Preferred non-science or non-engineering position 02-Promoted out of science or engineering position 03-Pay was better in non-science or non-engineering position/advancement opportunities were better 04-Locational preference 05-Science or engineering position not available 06-Not trained in a natural science, social science or engineering field  07-Other reason  08-Committed to the military 09-In school; student; working part-time while in school 10-Personal; family or health reasons 11-Already held non-science or non-engineering position  99-No answer Blank-Inapplicable, coded 3 in col. 58 or coded 3-13 in cols. 61-62 or coded 1 in col. 64

CARD            COLS.            QUESTION/CONTENT

1                            PART III. EMPLOYMENT PROFILE

In this part of the questionnaire, we are asking questions about the job held during the week of February 4, 1990 or your most recent job before February 4, 1990. Please include any employment including military service job, not only a scientific or technical job. If you held more than one regular job during the week of February 4, 1990, please list the one which you consider your principal employment.

67            Q.9

For whom did you work? What is the name of the company business or the government agency you worked for?

SKIP TO Q.26



- 1-R never employed (Box checked at top of page 5 of questionnaire)
- 2-R self-employed
- 3-R not self-employed
  
- 9-No answer

68-70        Q.9a

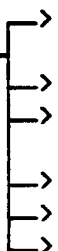
Where were you employed, that is in what city, county and state?  
(CODE STATE OR FOREIGN COUNTRY USING CODES GIVEN IN SUPPLEMENT #3)

Blank-Coded 1 in col. 67

71-72        Q.10

Which of the categories below best describes the type of organization of your principal employment or post doctoral appointment.

SKIP TO Q.12



- 01-Business or industry
- 02-Self-employed
- 03-Junior college, 2 year college, technical institute
- 04-Medical school
- 05-4 year college or university, other than medical school
- 06-Elementary or secondary school system
- 07-Hospital or clinic
- 08-Non-profit organization, other than hospital, clinic or educational institution

CARD

COLS.

QUESTION/CONTENT

1

(Q.10 Cont'd)

SKIP TO Q.12

- > 09-U.S. military service, active duty or  
Commissioned Corps, such as USPHS, NOAA,  
etc.
- > 10-U.S. Government, civilian employee
- > 11-State government
- > 12-Local or other government
- > 13-International agency
- > 14-Other
- > 15-Utility; Public Utility
- > 16-Research firm; laboratory; Research lab/  
Research Institute (no mention of Univer-  
sity affiliation)

99-No answer

Blank-Inapplicable, coded 1 in col. 67

73-75

Q.11

How would you classify the organization listed  
in question 9.

(USE CODES FROM SUPPLEMENT #4, EMPLOYER  
CLASSIFICATION LIST)

999-No answer

Blank-Inapplicable, coded 1 in col. 67, or  
coded 03-16 in cols. 71-72

76-80

BLANK COLUMNS

END CARD ONE

CARD TWO

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
2	1	<u>CARD NUMBER: 2</u>
	2-7	<u>CASE NUMBER:</u>
	8-11	<u>PROCESSING PACK #:</u>
(12-15)	Q.12	<u>From the activities listed below, select you primary and secondary work activities for your principal job (as reported in question 9) in terms of time devoted for a typical week.</u>  01-Management or administration of research or development 02-Management or administration of other than research and development 03-Teaching and training - preparing and teaching courses, guiding and counseling students or trainees 04-Basic research - that is, study directed toward gaining scientific knowledge primarily for its own sake 05-Applied research - that is, study directed toward gaining scientific knowledge in effect to meet a recognized need. 06-Development - product, process, and technical development, that is, direction of knowledge gained from research toward production of useful materials, devices, systems and methods 07-Report and technical writing, editing, information retrieval 08-Clinical diagnosis, psychotherapy 09-Design of equipment, processes, models 10-Quality control, testing, evaluation, or inspection 11-Operations - production, maintenance, construction, installation, exploration 12-Distribution - sales, traffic, purchasing, customer and public relations 13-Statistical work - survey work, forecasting, statistical analysis



<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
2		(Q.12 Cont'd)  14-Consulting 15-Computer applications  16-Other activities  17-Student activities 18-Medical activities 19-General military activities  99-No answer Blank-Inapplicable, coded 1 in col. 67, Card 1
	12-13	<u>Primary Activity</u>
	14-15	<u>Secondary Activity</u> 96-No secondary activity
	(16-24)	Q.13 During a typical week in your principal job (as reported in question 9), what percent of working time do you devote to the following <u>activities?</u> <hr/> 001-One percent . . 100-percent
		998-Don't know/Varies 999-No answer
		Blank-Inapplicable, coded 1 in col. 67, Card 1
	16-18	<u>Primary work activity</u>
	19-21	<u>Secondary work activity</u> 000-None
	22-24	<u>Other activities</u> 000-None

CODE 998998 IN COLS.19-24	→
CODE 999999 IN COLS.19-24	

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
2	25-27	Q.14 From the Degree and Employment Speciality List, select and enter the number and title of the speciality most closely related to your principal employment (as reported in question 9) during the week of February 4, 1990. <u>(USE CODES GIVEN IN SUPPLEMENT #1, DEGREE AND EMPLOYMENT SPECIALITY LIST. BE SURE THAT CODE AND DESCRIPTION MATCH; IF NOT, RECODE TO MATCH DESCRIPTION)</u>

997-Other specialities not on list  
998-No answer  
999-Other specialities, speciality not stated  
000-None  
Blank-Inapplicable, coded 1 in col. 67,  
Card 1

28-32	Q.15	For your principal job (as reported in question 9), what is the basic annual salary you currently earn? <u>(CODE DOLLAR AMOUNT ONLY)</u>
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SKIP TO Q.17

99995-\$99,995 or more  
99996-Not currently employed at that job  
(R checked box)  
99997-R refused to give salary  
99998-Varies/Don't know  
99999-No answer or reported in other than  
U.S. Dollars  
Blank-Inapplicable, coded 1 in col. 67,  
Card 1

CODER: IF CODED 01-02, 07-16 IN Q.10, SKIP TO Q.17

33	Q.16	If academically employed in your principal job is your salary for:
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1-9-10 months  
2-11-12 months

9-No answer  
0-Not academically employed (coded 01-02,  
07-16 in cols. 71-72, Card 01.)  
Blank-Inapplicable, coded 1 in col. 67,  
Card 1 or coded 01-02, or coded 99996 in  
cols. 28-32

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
2	34-35	Q.17 <u>How many years of professional work experience including teaching, do you have?</u> 00-None 01-One year or less . . ...  99-No answer Blank-Inapplicable, coded 1 in col. 67, Card 1
	36-38	Q.18 <u>Using the Degree and Employment Speciality List complete the following statement: "Based on my total education and experience I regard myself professionally as a (an _____)."</u> (USE CODES GIVEN IN SUPPLEMENT #1, DEGREE AND EMPLOYMENT SPECIALITY LIST. BE SURE THAT CODE AND DESCRIPTION MATCH; IF NOT, RECODE TO MATCH DESCRIPTION)  997-Other specialities not on list 998-No answer, question left blank 999-Other specialities, speciality not stated Blank-Inapplicable, coded 1 in col. 67, Card 1
	39	Q.19 <u>During the week of February 4, 1990 was any of your work at your principal job supported by U.S. Government funds?</u>  1-Yes 2-No 3-Don't know  9-No answer Blank-Inapplicable, coded 1 in col. 67, Card 1

SKIP TO Q.21



<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
2	40-56 Q.20	Which of the following agencies or departments were supporting your work? 1-Item checked 2-Item not checked
<hr/>		
CODE 8'S IN COLS.40-56	>	8-Don't know for entire question (Item 18 checked)
CODE 9'S IN COLS.40-56	>	9-No answer for entire question Blank-Inapplicable, coded 1 in col.67, Card 1 or 2 or 3 in col. 39
<hr/>		
40	1.	<u>AID--Agency for International Development</u>
41	2.	<u>Department of Agriculture</u>
42	3.	<u>Department of Commerce</u>
43	4.	<u>Department of Defense</u> (includes Army, Navy, Air Force, Marines)
44	5.	<u>Department of Energy</u>
45	6.	<u>Department of Education (NIE, OE, NCES)</u>
46	7.	<u>Department of Health and Human Services (DHHS--old HEW)</u>
47	8.	<u>Department of Housing and Urban Development (HUD)</u>
48	9.	<u>Department of the Interior</u>
49	10.	<u>Department of Justice</u>
50	11.	<u>Department of Labor</u>
51	12.	<u>Department of Transportation</u>
52	13.	<u>EPS--Environmental Protection</u>
53	14.	<u>NASA--National Aeronautics and Space Administration</u>
54	15.	<u>NSF--National Science Foundation</u>

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
2		(Q.20 Cont'd)
	55	16. <u>Nuclear Regulatory Commission</u>
	56	17. <u>Other</u>
		18. <u>Don't know source agency</u> (DO NOT CODE ITEM 18. IF BOX CHECKED, ENTER CODE 8 IN EACH OF COLS. 40-56)
57-58	Q.21	The following list contains selected areas of national interest. Indicate the <u>one</u> area to which you devote(d) the most professional time during a typical week at the job reported in <u>question 9.</u>
		01-Energy and fuel
		→ 02-Health
		→ 03-Environment
		→ 04-Education
		→ 05-National Defense
		→ 06-Agriculture
		→ 07-Mineral Resources
		→ 08-Community development and service
		→ 09-Housing (planning, design, construction)
		→ 10-Transportation
		→ 11-Communications
		→ 12-Technological development
		→ 13-Space
		→ 14-Business/Commerce
		→ 15-Other
		→ 00-None
		→ 98-Varies
		→ 99-No answer
		Blank-Inapplicable, coded 1 in col. 67, Card 1

SKIP TO Q.26

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
2	59	Q.22
		What is your best estimate of the percent of your professional time that you devote(d) to <u>energy and fuel during a typical week?</u> 1-100 percent 2-75 to 99 percent 3-50 to 74 percent 4-25 to 49 percent 5-24 percent or less  9-No answer Blank-Inapplicable, coded 1 in col. 67, Card 1
	60-61	Q.23
		From the list below, indicate the <u>one</u> energy source that involve(d) the largest proportion of your energy related work during a typical week. <hr/> 01-Coal and coal products 02-Petroleum (including oil shale and tar sands) or natural gas 03-Fission 04-Fusion 05-Hydroenergy 06-Direct solar (including space and water heating, thermal, electric) 07-Indirect solar (winds, tides, biomass, etc.) 08-Geothermal 09-Other  99-No answer Blank-Inapplicable, coded 1 in col. 67, Card 1 or 00, 02-15 or 98 in cols 57-58

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
2	62-74	Q.24 From the list of energy-related activities below, indicate the items that best describe the activities in which you were engaged during a typical week. <hr/> (USE CODES BELOW FOR Q.24 ITEMS 1-13)  1-Item checked 2-Item not checked
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CODE 9'S IN EACH OF COLS. 62-74</div> →		9-No answer for entire question Blank-Inapplicable, coded 1 in col. 67, Card 1 or 00, 02-15 or 98 in cols 57-58
	62	1. <u>Exploration</u>
	63	2. <u>Extraction (gas, oil, mining)</u>
	64	3. <u>Manufacture of energy-related components or products</u>
	65	4. <u>Fuel processing (including refining and enriching)</u>
	66	5. <u>Electric power generation</u>
	67	6. <u>Transportation, transmission, distribution of fuel or energy</u>
	68	7. <u>Energy storage</u>
	69	8. <u>Fuel utilization, management</u>
	70	9. <u>Fuel reprocessing or disposal</u>
	71	10. <u>Energy conservation</u>
	72	11. <u>Environmental impact (health, economic, etc.)</u>
	73	12. <u>Education, training</u>
	74	13. <u>Other</u>

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
2	75-76	Q.25
		From the list in question 24, enter the number of the activity that best describes the one in which you spend(t) most of your energy-related time.
		<hr/>
		01-Exploration
		02-Extraction (gas, oil, mining)
		03-Manufacture of energy-related components or products
		04-Fuel processing (including refining and enriching)
		05-Electric power generation
		06-Transportation, transmission, distribution of fuel or energy
		07-Energy storage
		08-Energy utilization, management
		09-Fuel reprocessing or disposal
		10-Energy conservation
		11-Environmental impact (health, economic, etc.)
		12-Education, training
		13-Other
		99-No answer
		Blank-Inapplicable, coded 1 in col. 67, Card 1 or 00, 02-15 or 98 in cols 57-58
	77-80	BLANK COLUMNS
		END CARD TWO



CARD THREE

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
3	1	<u>CARD NUMBER:</u> 3
	2-7	<u>CASE NUMBER:</u>
	8-11	<u>PROCESSING PACK #:</u>

PART IV. DEMOGRAPHIC CHARACTERISTICS

(12-15)	Q.26	<u>In what month and year were you born?</u>											
12-13		<u>Month</u> 01-January . . 12-December 99-No answer											
14-15		<u>Year</u> 01-1901 . . 75-1975 99-No answer											
16-18	Q.26a	<u>Where was your place of birth?</u> (USE THREE DIGIT CODES GIVEN IN SUPPLEMENT #3)											
19	Q.27	<u>Are you:</u> 1-Male 2-Female  9-No answer (code only if can not determine from R's name)											
20	Q.28	<u>Are you:</u>											
<table border="1"><tr><td>SKIP TO Q.29</td></tr></table>		SKIP TO Q.29	<table><tbody><tr><td>&gt;</td><td>1-U.S. Citizen</td></tr><tr><td>&gt;</td><td>2-U.S. Naturalized</td></tr><tr><td></td><td>3-Non- U.S. Citizen, nonimmigrant (Permanent Resident)</td></tr><tr><td></td><td>4-Non- U.S. Citizen, nonimmigrant (Temporary Resident)</td></tr><tr><td></td><td>9-No answer</td></tr></tbody></table>	>	1-U.S. Citizen	>	2-U.S. Naturalized		3-Non- U.S. Citizen, nonimmigrant (Permanent Resident)		4-Non- U.S. Citizen, nonimmigrant (Temporary Resident)		9-No answer
SKIP TO Q.29													
>	1-U.S. Citizen												
>	2-U.S. Naturalized												
	3-Non- U.S. Citizen, nonimmigrant (Permanent Resident)												
	4-Non- U.S. Citizen, nonimmigrant (Temporary Resident)												
	9-No answer												

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
3	21-23	Q.28a <u>If Non-U.S. citizen, of which country are you a citizen?</u> (USE CODES FOR FOREIGN COUNTRIES GIVEN IN SUPPLEMENT #3)  999-No answer Blank-Inapplicable, coded 1 or 2 in col. 20
	24	Q.29 <u>Are you:</u> 1-American Indian or Alaskan Native 2-Asian or Pacific Islander 3-Black 4-White 5-Other  9-No answer
	25	Q.29a <u>Are you of Spanish/Hispanic origin or descent?</u> 2-Yes, Mexican-American 3-Yes, Puerto Rican 4-Yes, other Hispanic 5-No 6-Yes marked but no other boxes checked  9-No answer
	26	Q.30 <u>As of February 4, 1990, were you:</u> 1-Married 2-Widowed 3-Separated 4-Divorced 5-Never married  9-No answer
	27	Q.31 <u>As of February 4, 1990, did you have any children living with you?</u> 2-Yes, under 6 years of age 3-Yes, 6-17 years of age 4-No 5-Yes, both under 6 and 6-17 years of age (codes 2 and 3 are checked) 6-Yes, over 17 years of age 7-Yes, marked, but no other boxes checked  9-No answer

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
3	28	Q.32 <u>Are you physically disabled?</u> 1-Yes 2-No
<div style="border: 1px solid black; padding: 2px; display: inline-block;">SKIP TO Q.34</div> →		9-No answer
	(29-32)	Q.33 <u>What is the nature of your disability(ies)?</u>
	29	<u>No useful sight</u> 1-Box marked 2-Box not marked
<div style="border: 1px solid black; padding: 2px; display: inline-block;">CODE 9'S IN COLS.29-32</div> →		9-No answer to entire question Blank-Inapplicable, coded 2 or 9 in col. 28
	30	<u>No useful hearing</u> 1-Box marked 2-Box not marked
		9-No answer to entire question Blank-Inapplicable, coded 2 or 9 in col. 28
	31	<u>No use of arms or legs</u> 1-Box marked 2-Box not marked
		9-No answer to entire question Blank-Inapplicable, coded 2 or 9 in col. 28
	32	<u>Other</u> 1-Box marked 2-Box not marked
		9-No answer to entire question Blank-Inapplicable, coded 2 or 9 in col. 28
	Q.34	<u>NOT CODED</u>

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
3	(33-38) Q.35	<u>Date Completed</u>
	33-34	<u>Month</u> 01-January . . 12-December  99-No answer
	35-36	<u>Day</u> 01 . . 31  99-No answer
	37-38	<u>Year</u> 90-1990 91-1991  99-No answer
	39-42	<u>ISR DATA REDUCTION NUMBER: #</u>
	43	<u>Did Respondent Request Survey Results</u> 1-Yes 2-No
	44-80	BLANK COLUMNS

END CARD THREE

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
4	1	<u>CARD NUMBER:</u> 4
	2-7	<u>CASE NUMBER:</u>
	8-17	<u>Basic Sampling Weight</u> <sup>1</sup>
	18-45	<u>Blank</u>
	46	<u>Sampling code for year of graduation.</u>  5 = 84 - 85 8 = 87 - 88 9 = 88 - 89
	47	<u>Sampling code for degree received:</u> 1- Bachelor's 2- Master's
	48-49	<u>Sampling code for major field or study (see list attached)</u>
	50	<u>Blank</u>
	51	<u>Adjusted degree/year code (see list attached)</u>
	52-53	<u>Blank</u>
	54-55	<u>Adjusted major field code (see list attached)</u>
	56-60	<u>Blank</u>
	61-68	<u>Final weight</u> <sup>2</sup> (includes HEGIS adjustment)
	69-76	<u>Final weight adjustment</u> <sup>3</sup> (includes HEGIS adjustment)

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<sup>1</sup>The Basic Sampling Weight is defined as the inverse of the probability of selection into the sample.

<sup>2</sup>The Final Weight denotes the product of the Basic Sampling Weight, a weight which adjusts for nonresponse and a weight which incorporates HEGIS auxiliary data in order to yield efficient ratio estimates. This weight includes a decimal point.

<sup>3</sup>The Final Weight Adjustment is simply a ratio of the Final Weight to the Basic Sampling Weight. It reflects the extent to which the Basic Sampling Weight was altered in order to adjust for nonresponse and HEGIS auxiliary data.

<u>CARD</u>	<u>COLS.</u>	<u>QUESTION/CONTENT</u>
4	77-80	<u>Final integral Weight</u> <sup>4</sup>

END CARD FOUR

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<sup>4</sup>The Final Integrate Weight is an integral relation of the final weight. No decimal point is included. This weight should be used for tabulations and other analyses.

SAMPLING CODES FOR MAJOR FIELD OR STUDY  
(Card 4, Column 48-49)

<u>CODE</u>	<u>MAJOR FIELD</u>
01	Chemistry
02	Physics/Astronomy
03	Other Physical Science
04	Math/Statistics
05	Computer Science
06	Environmental Science
07	Aero/Astro. Engineering
08	Chemical Engineering
09	Civil Engineering
10	Elect/Electron Engineering
11	Industrial Engineering
12	Materials Engineering
13	Mechanical Engineering
14	Mining Engineering
15	Nuclear Engineering
16	Petroleum Engineering
17	Other Engineering
18	Biology Science
19	Agricultural Science
20	Psychology
21	Economics
22	Sociology/Anthropology
23	Other Social Science
24	Specific Physical Science
25	Specific Environmental Science
26	Specific Mineral Rel.
27	Engineering Technologies
28	Specific Earth Science
29	No Field

ADJUSTED DEGREE/YEAR CODE  
(Card 4, Column 51)

ACADEMIC YEAR AWARDED

		7/84 to 6/85	7/87 to 6/88	7/88 to 6/89
Type of Degree:	BA	1	3	5
	MA	2	4	6



ADJUSTED MAJOR FIELD CODE  
(Card 4, Columns 54-55)

- 1- Chemistry
- 2- Physics/Astronomy
- 3- Other Physical Science
- 4- Math/Statistics
- 5- Computer Science
- 6- Environmental Science

Engineering

- 7- Aero/Astro.
- 8- Chemical
- 9- Civil
- 10- Elect./Electron
- 11- Industrial
- 12- Materials
- 13- Mechanical
- 14- Mining
- 15- Nuclear
- 16- Petroleum
- 17- Other Engineering

Life Sciences

- 18- Biology
- 19- Agricultural Science
- 20- Psychology

Social Sciences

- 21- Economics
- 22- Sociology/Anthropology
- 23- Other Social Science

SUPPLEMENT #1

DEGREE AND EMPLOYMENT SPECIALTY LIST

Agriculture

- 804 Agriculture, business
- 013 Agronomy
- 014 Animal, dairy, poultry sciences
- 015 Farm and range management
- 016 Fish, game, and wildlife management
- 017 Food sciences
- 018 Forestry and related sciences
- 019 Horticulture
- 020 Natural resources management
- 021 Soil science
  
- 090 Agricultural sciences, other

Biological Sciences

- 211 Anatomy, histology
- 213 Biochemistry
- 714 Biometrics and biostatistics
- 214 Biophysics
- 215 Botany
- 216 Entomology
- 217 Genetics
- 218 Immunology
- 219 Marine biology
- 220 Microbiology, bacteriology
- 227 Neurosciences
- 222 Nutrition
- 228 Parasitology
- 223 Pathology, human, animal, plant
- 224 Physiology, human, animal, plant
- 229 Radiology
- 230 Toxicology
- 225 Zoology
  
- 290 Biological sciences, other

Education

- 413 Biological sciences education
- 414 Engineering education
- 417 Mathematics education
- 421 Physical sciences education
- 425 social science education
  
- 490 Education, other

SUPPLEMENT #1

DEGREE AND EMPLOYMENT SPECIALTY LIST (Cont'd)

Engineering

- 511 Aerospace, aeronautical, astronautical
- 512 Agricultural
- 513 Architectural
- 514 Bioengineering and biomedical engineering
- 515 Chemical, including petroleum refining
- 516 Civil, construction, and transportation
- 729 Computer
- 517 Electrical, electronic, and communication
- 529 Engineering science, mechanics, physics
- 520 Geological
- 521 Industrial
- 522 Mechanical
- 523 Metallurgical
- 524 Mining and mineral
- 525 Naval architecture and marine
- 526 Nuclear
- 531 Ocean
- 527 Petroleum
- 528 Textile
- 751 Operations research/management sciences
  
- 590 Engineering, other

Mathematical Sciences

- 711 Actuarial science
- 712 Applied mathematics
- 750 Mathematics
- 751 Operations research/management sciences
- 713 Statistics
- 714 Biometrics and biostatistics
  
- 780 Mathematics, other

Computer and Information Sciences

- 723 Software systems
- 724 Hardware systems
- 725 Intelligent systems
- 726 Information sciences
- 727 Systems analysis
  
- 728 Computer sciences, other

SUPPLEMENT #1

DEGREE AND EMPLOYMENT SPECIALTY LIST (Cont'd)

Physical Sciences

- 720 Astronomy
- 721 Atmospheric sciences and meteorology
- 213 Biochemistry
- 722 Chemistry
- 741 Earth sciences and geology
- 733 Metallurgy
- 742 Oceanography
- 731 Physics
  
- 790 Physical sciences, other

Social Sciences

- 811 Anthropology
- 812 Criminology
- 813 Economics (except agricultural)
- 814 Geography
- 823 Economics, agricultural
- 118 Linguistics
- 817 Political science and government
- 818 Psychology (except clinical)
- 821 Sociology
- 822 Urban studies
  
- 890 Social Sciences, other

Health Sciences

- 611 Clinical psychology
- 612 Dentistry
- 614 Hospital and health care administration
- 615 Medicine or premedicine
- 616 Nursing
- 617 Pharmacology
- 618 Pharmacy
  
- 690 Health area, other

SUPPLEMENT #1

DEGREE AND EMPLOYMENT SPECIALTY LIST (Cont'd)

Arts, Humanities and Other Specialties

- 910 Area and ethnic studies
- 911 Architecture and environmental design
- 110 Arts and letters, general
- 310 Business and commerce
- 115 English and journalism
- 114 Fine and applies arts
- 116 Foreign language and literature, all fields
- 815 History
- 912 Home economics, all fields
- 913 Law and prelaw
- 914 Library science
- 915 Military science, including merchant marine deck officer
- 816 Philosophy
- 819 Religion and theology
- 820 Social work
  
- 999 Other Specialties

**SUPPLEMENT #2**

**TYPE OF DEGREE**

- 01- Bachelors Degree (BA, BS, AB, BBA, Bed, BEE, etc.)
- 02- Master's Degree (MA, MS, AM, MBA, ME, MPA, etc.)
- 03- Doctorate Degree (DSc, PhD, ThD, EdD, etc.)
  
- 10- Associates Degree (AAS, AA, AE, AS, etc.)
  
- 15- Law Degree (JD, etc.)
  
- 20- Medical Degree (Medical doctor, dentist, veterinarian, osteopath)  
(MD, DDS, DMD, OD, DVM)
  
- 21- Registered Nurse (RN)

SUPPLEMENT #3

U.S.A. STATES

001	Alabama: AL	028	Nebraska: NE
002	Alaska: AK	029	Nevada: NV
003	Arizona: AZ	030	New Hampshire: NH
004	Arkansas: AR	031	New Jersey: NJ
005	California: CA	032	New Mexico: NM
006	Colorado: CO	033	New York: NY
007	Connecticut: CT	034	North Carolina: NC
008	Delaware: DE	035	North Dakota: ND
009	District of Columbia: DC	036	Ohio: OH
010	Florida: FL	037	Oklahoma: OK
011	Georgia: GA	038	Oregon: OR
012	Hawaii: HI	039	Pennsylvania: PA
013	Idaho: ID	040	Rhode Island: RI
014	Illinois: IL	041	South Carolina: SC
015	Indiana: IN	042	South Dakota: SD
016	Iowa: IA	043	Tennessee: TN
017	Kansas: KS	044	Texas: TX
018	Kentucky: KY	045	Utah: UT
019	Louisiana: LA	046	Vermont: VT
020	Maine: ME	047	Virginia: VA
021	Maryland: MD	048	Washington: WA
022	Massachusetts: MA	049	West Virginia: WV
023	Michigan: MI	050	Wisconsin: WI
024	Minnesota: MN	051	Wyoming: WY
025	Mississippi: MS	200	Puerto Rico
026	Missouri: MO	990	USA - State not specified
027	Montana: MT		

SUPPLEMENT #3 (Cont'd)

Foreign Countries

052	Afghanistan	180	Cyprus
053	Albania	079	Czechoslovakia
054	Algeria	080	Denmark
055	Angola	081	Dominican Republic
056	Argentina	082	Ecuador
057	Australia	083	Egypt
058	Austria	084	El Salvador
059	Bahamas	085	Ethiopia
060	Bangladesh	086	Finland
061	Barbados	087	France
062	Belgium	088	French Guiana
063	Bermuda	089	Germany, East
064	Bolivia	090	Germany, West
065	Borneo	091	Ghana
066	Brazil	092	Great Britain
067	Bulgaria	093	Greece
068	Burma	094	Guatamala
069	(Cambodia) Kampuchea	095	Guinea
070	Canada	096	Guyana
071	Central African (Republic)	097	Haiti
072	Chad	098	Honduras
073	Chile	099	Hungary
074	China	100	Iceland
075	Colombia	101	India
076	Congo	102	Indonesia
077	Costa Rica	103	Iran
078	Cuba	104	Iraq



SUPPLEMENT #3 (Cont'd)

Foreign Countries (cont'd)

105	Ireland	132	(New Guinea) Papua New Guinea
106	Israel	133	New Zealand
107	Italy	134	Nicaragua
108	Ivory Coast	135	Niger
109	Jamaica	136	Nigeria
110	Japan	137	Northern Ireland
111	Java	138	Norway
112	Jordan	139	Oman
113	Kashmir	140	Pakistan
114	Kenya	141	Panama
115	Korea - North	142	Paraguay
116	Korea - South or unspecified	143	Peru
117	Kuwait	144	Philippines
118	Laos	145	Poland
119	Lebanon	146	Portugal
120	Liberia	147	Romania
121	Libya	148	(Russia) Soviet Union
122	Madagascar	149	Rwanda
123	Malaysia	150	Saudi Arabia
124	Mali	151	Senegal
125	Mauritania	152	Sierra Leone
126	Mexico	153	Somalia
127	Morocco	154	South Africa
128	Mozambique	155	Spain
129	Namibia	156	Sri Lanka
130	Nepal	157	Sudan
131	Netherlands (Holland)	158	Sumatra

SUPPLEMENT #3 (Cont'd)

Foreign Countries

- 159 Sweden
- 160 Switzerland
- 161 Syria
- 162 Taiwan (Republic of China)
- 163 Tanzania
- 164 Thailand
- 165 Trinidad
- 166 Tunisia
- 167 Turkey
- 168 Uganda
- 169 United Arab Emirates
- 170 Upper Volta
- 171 Uraquay
- 172 Venezuela
- 173 Vietnam
- 179 Virgin Islands
- 174 Yemen
- 175 Yugoslavia
- 176 Zaire
- 177 Zambia
- 178 Zimbabwe
- 179 Virgin Islands
- 180 Cyprus
  
- 996 Foreign Country, country  
not specified
- 997 Foreign Country, specified  
but not on list
  
- 999 No Answer

**SUPPLEMENT #4**

**EMPLOYER CLASSIFICATION LIST**

**Manufacturing**

- 401 Primary metal products
- 402 Fabricated metal products
- 403 Computers and computing equipment
- 404 Nonelectrical machinery (including engines and turbines, construction machinery, metal working and industrial machinery; and excluding computing and computing equipment)

**Electrical Equipment**

- 405 Household appliances (excluding radios and televisions)
- 406 Radios and televisions
- 407 Other electrical equipment (including electric motors, transmission equipment, and generators)

**Transportation Equipment**

- 408 Aircraft, aircraft engine and parts
- 409 Motor vehicles and equipment
- 410 Guided missiles and space vehicles and parts
- 411 Other transportation equipment (including railroad and parts)
  
- 412 Ordnance (including arms manufacture and ammunition)
- 413 Professional and scientific instruments
- 414 Chemicals and allied products
- 415 Petroleum and coal products, including petroleum refining
  
- 416 Other manufacturing

**Non-Manufacturing**

- 417 Construction

**Mining and Petroleum Extraction**

- 418 Coal mining
- 419 Petroleum and gas extraction
  
- 420 Other mining

**Transportation, Communications, and Utilities**

- 421 Transportation
- 422 Communications
- 423 Utilities and sanitary services

**SUPPLEMENT #4**

**EMPLOYER CLASSIFICATION LIST (Cont'd)**

**Non-Manufacturing (Cont'd)**

**Wholesale and Retail Trade**

- 424 Wholesale trade
- 425 Retail trade

- 426 Finance, Insurance, and Real Estate

**Services**

- 427 Computer and data processing services
- 428 Engineering, architectural, and surveying services
- 429 Other services
- 430 Other