

Introduction to the NBER Extension to the Mare-Winship Data

This file contains the documentation for the original Mare-Winship CPS extracts (covering 1964-1988) and the extension to 1993 done by Christine Collins at the NBER during the spring of 1996. While most of the documentation is copied directly from the Mare-Winship documentation, changes were made to reflect necessary changes in the meanings of codes. We have tried to keep to the spirit of the of the Mare-Winship project and have not done extensive recoding.

For many of the variables, the coding did not change from the 1964-88 codes to the 1989+ codes. However, there were several variables that did have to be documented for changes in coding. Where applicable, these changes are listed next to the old codes.

When going through the data, we did not find the location of several of the variables in the CPS Data Dictionary. These variables were:

x62	Normal Full Time Job
x101-x102	Family [A/P] Weight
x109-x113	Type [A-E] Income
x114	Dividends and Interest

Two variables (x75 and x95) were constrained by single character output fields. For these variables, two-digit values were recoded to 0. For x75 (Relationship to household head) some information was lost.

(*NOTE: Data could be found for variables measuring income from dividends, rents and trusts; dividends; interest, dividends and net rentals; and rent. There was not enough information available to generate the data measuring dividends and interest alone.)

All variables that could not be found for the time series 1989-1992 were set to zero.

Any errors should be drawn to the attention of Daniel Feenberg at feenberg@nber.harvard.edu.

1964 - 1988 March CPS Extracts

Mare and Winship have prepared a (nearly) uniform subset of the March CPS files from 1964 to 1988. Documentation is in hard copy only. There are 3,491,201 records in total. Because this is a rectangular file (no family or household records) it is very easy to deal with.

The files are kept in /home/data/mare_winship and are compressed with the Unix compress command.

The following SAS program reads every record in every year, and prepares a weighted count. Note the filename and infile statements that demonstrate how to read out of the compressed files.

```
libname save ',';
filename raw pipe 'zcat /home/data/mare_winship/cpsmw??raw.Z'
```

```
data;
length default=4;
infile raw lrecl=386;
input year 13-14 famwght 248-259;
famwght=famwght/100;
run;
```

Users of other packages can use the Unix 'cut' command to make similar extracts. For example:

```
zcat /home/data/mare_winship/cpsmw??raw.Z|cut-c13-14,248-259
>foo
```

will concatenate all 25 years of data and make a two variable extract.

MARCH CPS UNIFORM FILE CODEBOOK

Variable Name	Category Description	Column #s
1. Household Counter	household no. within file [all persons]	1-6
2. Family-in-Household1	family location within households [all persons]	7-9
3. Person-in-Family	person location within family [all persons]	10-12
4. Year	year of CPS [all persons]	13-14
5. Household ID Number2		15
	actual number 1-8	
	invalid code 9	
6. Household Month in Sample		16
	month in sample 1-8	
7. Random Cluster (Schedule Number, 1964-1967)		17-21
	bad code 99999 [1977+ = 00000]	
8. Keyfitz Cluster (PSU Number, 1964-67)		22-24
	bad code 999 [1977+ = 000]	
9. Noninterview Cluster		25-26
	bad code 99 [1964-67, 1977+ = 00]	
10. Family Serial Number	[1964-67, 1980-82 = 000000]	27-32
Padding	zero	33
11. Family Description		34
	primary family containing no subfamilies 1	
	primary family with 1 or more subfamilies 2	
	secondary family 3	
	subfamily 4	
	primary individual 5	
	secondary individual, 14+, in a household 6	
	secondary individual, 14+, in group quarters 7	
	a secondary individual, under 14, in a household 8	
	secondary individual, under 14, in group quarters 9	
	[1964-67 = 1-6 only]	
12. Family Position in Household		35-36
	family sequence within household 41-79	
	NIU 00	
	[universe = 1976-1882]	
	[1968-1975 = 00]	
13. Family Type		37

C-recipienty

yes	1
no	2
[1964-65 = 0]	

Padding	zero	38
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14. Kind of Family		39
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	64-88	89-92
primary family	1	1
subfamily	2	3
secondary family	3	4
primary individual	4	2
secondary individuals	5	5

15. Number of Persons in Family	01-39 = number of persons 7 = 7+ [1964-67 only]	40-41
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number of persons 7+ [1964-67 only]	01-39 7
--	------------

16. Total Family Income ³	amount shown equals income, except: +999999999=not in universe [1968-75 only] 50000 = \$50000 or more [1968-75 only] (see note 3)	42-51
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17. Type of Family		52
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	68-75	64-67, 76-81
male family head	1	
husband-wife family		1
other male head		2
female family head	2	3

18. Census Geodivision		53-54
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New England	01
Middle Atlantic	02
East North Central	03
West North Central	04
South Atlantic	05
East South Central	06
West South Central	07
Mountain	08
Pacific	09
missing data	99

19. Central City Status		55
-------------------------	--	----

central city	1
balance of SMSA	2
not in SMSA	3
not identifiable [1977+ only]	4

20. Household Serial or Segment Number	actual number [1964-67 = 000000]	56-61
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21. Household Type		62
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	64-88	89-92
household	1	
group quarter	2	0
primary family		1
primary individual living alone		2
primary individual living with nonrelatives [1964-67 = 0]		3

22. Household Status		63
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not in universe (group quarter)	0
primary family	1
primary individual (alone)	2
primary individual (living with nonrelative)	3
[for all households, 1977-1982; 1964-1976 = 0]	

Padding	zeros	64-65
23. Number of Families in Household	01-39 = actual number [1964-67 = 00]	66-67
24. Number of Persons in Household	01-39 = actual number [1964-67, secondary individuals and families = 99]	68-69
Padding	zero	70
25. Region		71
	Northeast	1
	North Central	2
	South	3
	West	4
	Missing	9
26. SMSA	Actual SMSA codes for each year as given in Appendix E	72-73
27. SMSA-I	common coding for selected cities as given in Appendix F	74-75
Padding	zero	76
28. SMSA Status		77
	SMSA	1
	NONSMSA	2
	not identifiable [1977+ only]	3
29. State	actual state codes for each year as given in Appendix G	78-79
30. STATE-I	common state code for all years as given in Appendix H	80-81
31. Total Household Income	amount shown equals income except: +999999999 = not in universe 50000 = \$50000 or more [in 1968-75 only] [in 1968-75 only] [universe for 1976+ = all persons] (see note 3)	82-91
32. ADC Reciprocity		92
	not in universe	64-88
	yes	0
	AFCD (ADC)	1
	Other	2
	AFCD & other	3
	no	2
	missing data	9
	[1966-75 = ADC and public assistance] [universe = persons 14+] [1964-65 = 0]	
33. Age		93-95
	actual age	0-99
	invalid code [1968-69 only]	999
34. Alimony Reciprocity		96
	not in universe	0
	yes	1
	no	2
	[universe = persons 14+] [1964-1968 = 0]	
35. Any Reason Could Not Take a Job		97
	not in universe	0
	yes	1
	no	2
	[civilians 14+, who are looking for	

a job (3 in variable 41)]
 [1964-67 = 0]

36. Class of Worker (Current Job) 98

	64-88	89-92
NIU, NC	0	0
private	1	1
government	2	
federal government		2
state government		3
local government		4
self-employed	3	
self-employed, inc		5
self-employed, not inc		6
without pay	4	7
never worked or never worked full	5	8
[1976+ only]		
[universe = civilians 14+ (1 in P1) and		
a) ESR (P152) 3 and		
b) ESR (P152) 3 and P168 is 1 or 2		
c) ESR (P152) 4-7, month in sample (P26) is 1 or 5 and P183 is 1-5]		

37. Complete High Grade Attended 99

not in universe	0
yes	1
no	2
invalid code	9
[persons 14+ years old]	

38. Current Industry 100-102

NIU [1971+]	000
census codes	001-997
invalid code	998
NIU [1968-70]	999
[1960 codes for 1968-70]	
[1970 codes for 1971+]	
(same as variable 36 [column 98])	
(see Appendix A for 1964-67 current industry codes)	
(see Appendix A-1 for 1983-92+ current industry codes)	

39. Current Occupation 103-105

NIU	000
census codes	001-997
[1960 codes for 1968-70]	
[1970 codes for 1971+]	
(same as variable 36 [column 98])	
(see Appendix B-1 for 1983-92+ current occupation codes)	

40. Didn't Work Last Year 106

NIU/did work	0
did not work	1
[civilians 14+]	
[universe is unknown for 1977-79]	

41. Employment Status Recode 107

	64-88	89-92
NIU	0	0
working, employed	1	1
with job, not at work, employed	2	2
looking, unemployed	3	3
layoff, unemployed		4
house keeping, NILF	4	
at school, NILF	5	
unable, NILF	6	
working w/out pay <=15 hours; temp absent from w/out pay job, NILF		5
unavailable, NILF		6

other (retired), NILF	7	7
[civilians 14+]		

42. Family (Secondary) Membership Key 108

member secondary family no. 1	1
member secondary family no. 2	2
member secondary family no. 3	3
member secondary family no. 4	4
member secondary family no. 5	5
member secondary family no. 6	6
member of primary family or subfamily	7
primary or secondary individual [1976-82 = 7 or 8 only]	8

Padding Zero 109

43. Family Number 110

not in sub/secondary family	0
sub/secondary family number [subfamily members only in 1980] [members of sub/secondary families] [1964-67 = 0]	1-6

Padding Zero 111

44. Family Relationship 112

not in sub/secondary family	0
head (sub/secondary family)	1
wife (sub/secondary family)	2
child (sub/secondary family)	3
other relative (secondary family)	4

Padding Zero 113

45. Family Type 114

	64-88	89-92
primary family	1	1
secondary individual	2	5
secondary family member	3	4
subfamily member	4	3
primary individual	5	2

46. Farm/Self-Employed Income 115-121

0-49999 = actual amount
 50000 = \$50000+ [1968-75]
 +999999 = NIU [1968-75] [good for 1968-75 only;
 NIU in 1976+ = +000000]
 [persons 14+]
 (see note 3)

47. Full/Part Time, Full/Part Year Work 122

NIU	0
full-time (full year worker)	1
part-time (full year worker)	2
full-time (part year worker)	3
part-time (part year worker)	4
nonworker	5
invalid data [civilians 14+]	9
[civilians 15+ in 1980+]	

48. Full/Part Time Work Recode 123

	64-88	89-92
children or armed forces		0
NIU, not in labor force	0	1
employed full time	1	2
part-time for economic reasons (usually full time, 89-92)	2	3
part-time for noneconomic reasons (usually part-time)		4

part-time for economic reasons (usually part-time)		5
unemployed full-time	3	6
employed part-time	4	
unemployed part-time [1968+ only]	5	7
with job, not at work [1964-75 only]	6	
[1964-67 only]		
missing data	9	
[civilians 14+, where variable 41 = 1, 2 or 3]		

49. High Grade Attended 124-125

	64-88	89-91
0 or K		00
elementary 1 to 8	02-09	01-08
high school 1 to 4	10-13	09-12
college 1 to 4	14-17	13-16
college 5	18	17
college 6+	19	18
NIU (under 14 years) [persons 14+]	00	00

50. Hours Worked Last Week 126-127

NIU	00
actual hours	1-99
[civilians 14+, who worked last week (1 in variable 41)]	

51. Household Recode-I as given in Appendix I 128-129

padding Zero 130

52. Household Recode-II 131

head of household	1
wife of head of household	2
child of head, under 18, never-married	3
child of head, under 18, ever-married	4
child of head, 18+	5
other relative of head	6
nonrelative of head	7
secondary individuals/group quarters	8

53. Household Recode-III 132-133

head of family	01
wife of head	02
under 18, single, never married, child of family head	03
under 18, ever-married, child of family head	04
18+, child of family head	05
grandchild of head [1968+ only]	06
under 18, single, never-married, other relative	07
under 18, ever-married, other relative	08
18+, other relative	09
primary individual	10
secondary individual	11

54. Last Work Full Time,
2+ Consecutive Weeks 134

	64-88	89-92
NIU	0	0
within past 12 mo.		1
in last 5 years	1	
1-5 years ago		2
more than 5 years ago	2	3
never worked full time 2+ weeks	3	4
never worked at all	4	5
[civilians 14+ who were looking for work last week (3 in variable 41)] [1964-67 = 0]		

55. Last Work Full Time For Pay, 2+ Consecutive Weeks 135

NIU	0
within past 12 months	1
1-2 years ago	2
2-3 years ago	3
3-4 years ago	4
4-5 years ago	5
5+ years ago	6
never worked	7
invalid code	9

[civilians 14+ who were NILF (4-7 in variable 41) and for whom the month in sample was right]
 [1969-75 have bad data in more than 10% of cases that are in universe]
 [1964-67 = 0]

56. Look for Work Last Year 136

NIU	0
yes	1
no	2
invalid code [1968 only]	9

[civilians 14+ who didn't work last year]

57. Look for Full or Part Time Work Last Week 137

NIU	0
full time	1
part time	2

[civilians 14+ who were looking for work last week (3 in variable 41)]
 [1964-67 = 0]

58. Looking or Layed-Off Last Year (Part-Year Workers) 138

NIU/looking or layed off last year	0
not looking or layed off	1
invalid code [1968 only]	9

[civilians 14+ who worked 1-49 weeks last year (part year workers)]

59. Major Activity Last Week 139

NIU	0
working	1
with a job but not at work	2
looking for work	3
keeping house	4
at school	5
unable to work	6
other/retired	7

(expanded from basic CPS)
 [civilians 14+]

60. Marital Status 140

married, spouse present	1
married, AF spouse absent	2
married, spouse absent	3
widowed	4
divorced	5
separated	6
never married (includes under 14)	7

61. Nonfarm Self-employment Income 141-147

0-49999 = actual amount
 50000 = \$50000+ [1968-75]
 +999999 = NIU [1968-75]
 [good for 1968-75 only;
 NIU in 1976+ = +000000]
 [persons 14+]

(See note 3)
(Same as variable 46)

62. Normal Full Time Job			148
NIU	0		
yes	1		
no	2		
[civilians 14+ who were with job but not at work last week (2 in variable 41)] [1964-67 = 0]			
63. Normal Full Time Work			149
NIU	0		
yes	1		
no	2		
[civilians 14+ who worked part time last week]			
64. Paid Time Off Last Week			150
	64-88	89-92	
NIU	0	0	
yes	1	1	
no	2	2	
self-employed		3	
[civilians 14+ who were with job but not at work last week (2 in variable 41)]			
65. Parents Presence			151
NIU	0		
both	1		
mother only	2		
father only	3		
neither	4		
[1976-81 only; 1964-75 = 0] [NIU is unknown]			
66. Person Sequence Number			152-153
actual number	01-39		
invalid code	99		
[1964-67 = 0]			
67. Person's Total Earnings			154-161
0-150000 = actual number +9999999 = NIU [1968-75 only] [persons 14+] (See note 3)			
68. Person's Total Income			162-169
0-150000 = actual amount [1976+] 50000 = 50000+ [1969-75 only] +9999999 = NIU [1968-75 only] [persons 14+] (See note 3)			
69. Population Type			170
noninterview	0		
civilians 14+ [15+ in 1981]	1		
armed forces	2		
children [1968+ only]	3		
70. Public Assistance Amount			171-177
0 = NIU/none [1976+] 0-50000 = actual amount 50000 = 50000+ [1968-75 only] +9999999 = NIU [1968-1975 only] [persons 14+] [1964-67 = 0000000] (see note 3)			
71. Public Assistance Reciency (other than ADC)			178

NIU 0
 yes 1
 no 2
 bad data 9
 [persons 14+]
 [1966-75 = public assistance & ADC]
 1964-65 = 0]

72. Race 179

	64-68	89-92
White	1	1
Black	2	2
Amer Indian, Aleut Eskimo		3
Asian/Pacific Islander		4
Other	3	5

73. Reason Not at Work Last Week 180

	64-88	89-92
NIU	0	0
already had a job -- U1	1	
temporary illness -- U1	2	1
vacation		2
bad weather		3
labor dispute		4
new job within 30 days, NILF		5
temp layoff (<30 days), NILF		6
perm layoff (30+ days), NILF		7
going to school -- U2	3	
other -- U2	4	8
invalid		9
[civilians 14+ where variable 41 = 3 and variable 35 = 1] [1964-67 = 0] [1968-75 = 1 & 2 only - CPS error]		

74. Reason Not at Work Last Year 181

	64-88	89-92
ill	1	1
home [females only]	2	3
school	3	4
unable to find work	4	5
armed forces [1968+ only]	5	0
retired [1968+ only]	6	2
other	7	6
NIU	0	0
[civilians 14+ who did not work last year]		

75. Relationship to Household Head 182

	64-88	89-92
NIU [1968-76 only]	0	
head with other relatives	1	01
primary individual	2	02
wife of head	3	
husband		03
wife		04
child of head/other relative of head	4	
child natural/adopted		05
stepchild of head		06
grandchild of head		07
parent of head		08
brother/sister of head		09
other relative of head		10
foster child of head		11
secondary family member	5	12
partner/roommate		13
secondary individual	6	14
[civilians 14+]		

76. Sex 183

male	1
female	2

77. Subfamily Membership Key 184

NIU	0
member subfamily no. 1	1
member subfamily no. 2	2
member subfamily no. 3	3
member subfamily no. 4	4
member subfamily no. 5	5
member subfamily no. 6	6
invalid code	9
[subfamily members]	
[1964-67 = 0]	

78. Unemployment Reciprocity 185

NIU	0
yes	1
no	2
[persons 14+]	
[1964-68 = 0]	

79. Veteran Status 186

Vietnam Era	1
Korean War	2
World War II	3
World War I	4
other service	5
nonveteran	6
NIU	0
[males 14+]	

80. Person's Wage & Salary 187-193

0 = NIU/none [1976+]
 0-50000 = actual amount
 50000 = 50000+ [1968-75 only]
 +999999 = NIU [1968-75 only]
 [persons 14+]
 (same as variable 70)

Padding Zero 194

81. Week Unemployed 195-196

NIU	00
actual weeks	1-99
[civilians 14+ who were looking for work last week]	
[see appendix C for detailed weeks unemployed for 1964-67]	

82. Weeks Looking for Work Last Year-I 197-198

	64-88
NIU	00
number of weeks	>00
[civilians 14+ who did not work last year; good only for 1976-82; 1964-75 = 00]	

	89-92
none (not looking)	1
1-4 weeks looking	2
5-14 weeks looking	3
15-26 weeks looking	4
27-39 weeks looking	5
40+ weeks looking	6
workers	7
NIU	0

Padding Zero 199

83. Weeks Looking for Work Last Year-II 200

	64-88	89-92
none (not looking)	1	1
1-4 weeks looking	2	2
5-14 weeks looking	3	3
15-26 weeks looking	4	4
27-39 weeks looking	5	5
40+ weeks looking	6	6

workers		7
NIU	0	0
invalid code [1968 only]	9	
[civilians 14+ who did not work last year - for all years]		
[1964-67 = 0]		

84. Weeks Looking or Layed Off Work Last Year-I 201-202

NIU	00
number of weeks	>00
[civilians 14+ who were part-year workers; 1976-82 only; 1964-75 = 0]	

Padding Zero 203

85. Weeks Looking or Layed Off Work Last Year-II 204

	64-88	89-92
NIU	0	0
none	1	1
1-4 weeks	2	2
5-10 weeks	3	3
11-14 weeks	4	4
15-26 weeks	5	5
27-39 weeks [1964-67 = 27+ weeks]	6	6
40+ weeks [1968+ only]	7	7
full year worker (76-92 only)		8
nonworker (76-92 only)		9
invalid code	9	
[civilians 14+ who were part-year workers - all years]		

86. Weeks Worked Last Year-I 205-206

NIU	00
actual weeks	>00
[civilians 14+ - 1976-79 only; 1964-75 = 00]	

Padding zero 207

87. Weeks Worked Last Year-II 208

	64-75
NIU	0
0	1
1-13	2
14-26	3
27-39	4
40-47	5
48-49	6
50-52	7
[civilians 14+ - all years]	

	76-92
NIU	00
weeks	01-52

88. Why Less than Full Time Work 209-210

NIU	00
slack	01
material shortage	02
plant or machine repair	03
new job started during week	04
job terminated during week	05
could find only part time work	06
holiday	07
labor dispute	08
bad weather	09
own illness	10
on vacation	11
too busy with house, school, etc.	12
did not want full time work	13
full time work week less than 35 hrs.	14

other 15
 [civilians 14+ who worked 1-34 hours last week]

89. Why Look for Work 211

	64-88	89-92
NIU	0	0
lost job	1	1
quit job	2	2
left school	3	3
wanted temporary work	4	4
change in home/family		5
left military service		6
other	5	7
invalid code	9	

[civilians 14+ who were looking for work last week--15+ in 1980-81]
 [in 1968-75 about 10% of all cases in universe had bad data] [1964-67 = 0]

90. Why Not at Work Last Week 212

NIU		0
own illness		1
on vacation	ESR = 2	2
bad weather	ESR = 2	3
labor dispute	ESR = 2	4
new job begin 30 days [1968+]	ESR = 3	5
temporary layoff [1968+]	ESR = 3	6
indefinite layoff [1968+ only]	ESR = 3	7
other	ESR = 2	8
invalid code		9

[civilians 14+ and for whom variable 41 = 2 or 3--15+ in 1980-81]
 [in 1964-65, universe = all civilians 14+ for whom variable 41 = 2 only]
 [in 1968-75 about 10% of all cases in universe had bad data]

91. Person Serial Number 213-218

actual number
 [1964-67 = 0, 1980+ = 0]

92. Poverty Cutoff-Dollars 219-224

000000 = NIU [1976+]
 999999 = NIU [1968-75]
 else = dollar amount
 [1968-75, universe = secondary individuals 14+ or families except subfamilies;
 1976-81, universe = persons 14+, except primary and secondary individuals]
 [1964-67 = 000000]

93. Poverty-Level 225

	64-88	89-92
NIU [1968-75 only]	0	0
below poverty cutoff amount	1	1
above poverty cutoff amount	2	
100-124% of the low-income level		2
125-149% of the low-income level		3
150% and above the low-income level		4
missing data	9	

[universe = same as variable 92]
 [1964 = 0]

94. Class of Worker Last Year 226

NIU	0
private wage or salary	1
government	2
self-employed	3
w/o pay in family farm or business	4

[universe = civilians 14+, who worked last year]

95. Spanish Ethnicity			228
	64-88	89-92	
Mexican American		01	
Chicano		02	
Mexican (Mexicano 89-92)	1	03	
Puerto Rican	2	04	
Cuban	3	05	
Central or South American	4	06	
other Spanish	5	07	
other	6	08	
don't know	7	09	
not available	8	10	
[universe = all persons; 1964-70 = 0]			
96. Industry Last Year	same as Current Industry		229-231
	(Positions 100-102)		
97. Main Reason for Part-Year Work			232
	68-75	76-88	
NIU	0	0	
looking/unemployed		1	
ill	1	2	
home/family	2	3	
school	3	4	
armed forces	4	5	
retired	5	6	
other	6	7	
full year worker		8	
never worked		9	
[universe = persons 14+ who were part-year workers last year]			
[1964-67 = 0]			
98. Occupation Last Year	same as Current Occupation		233-235
	(positions 103-105)		
	[universe = persons 14+ who worked last year]		
99. Stretches of Unemployment			236
NIU	0		
1 stretch last year	1		
2 stretches last year	2		
3+ stretches last year	3		
[universe = 14+, part-year workers who looked for work or were layed off last year - 1968-75, 1980-81 only; 1964-67, 1976-79 = 0]			
100. Weeks in Labor Force			237
NIU	0		
1-13 weeks	1		
14-26 weeks	2		
27-39 weeks	3		
40-47 weeks	4		
48-49 weeks	5		
50-52 weeks	6		
invalid code [1968 only]	9		
[universe = persons 14+ who were part-year workers - 1964-75 only; 1962-67, 1976+ = 0]			
101. Family A Weight	amount = weight		238-242
	4 implied decimal places		
	99999 = invalid code		
	[universe = all records - 1968-76; 1964-67, 1977+ = 00000]		
102. Family P Weight	(as per Family A Weight		243-247
	[variable 101])		
103. Family Weight Basic	amount = weight		248-259
	2 implied decimal places		
	may be negative weights		
	[universe = 1964-75, 1977-82;		

1976 is zero filled]

104. Household Weight	amount = weight 2 implied decimal places [universe = 1977-81; 1964-67 is zero filled; 1968-76 = +0000000000]	260-270
105. Person A Weight	amount = weight 4 implied decimal places 99999 invalid code [universe = all records - 1968-76; 1964-67, 1976+ = 00000]	271-275
106. Person P Weight	(as per Person A Weight [variable 105])	276-280
107. Person Supplemental Weight	(as per Family Weight Basic [variable 103, except 1976 is in universe])	281-292
108. Basic CPS Weight	amount = weight 2 implied decimal places [universe = persons 14+ - 1976-82 only; 1964-67 is zero filled; 1968-75 = +0000000000]	293-303
109. Type-A-Income	0 = NIU/none [1976+] else = actual amount [1976+] 0 - 49999 = actual amount [1968-1975] 50000 = \$50000+ [1968-1975] +99999 = NIU [1968-1975] [universe: 1968-1975 = persons 14+; 1976+ = all] [1964-67, 1980-82 = 0000000] (see note 3)	304-310
110. Type-B-Income	(as per variable 109, except 1980-81 are in universe)	311-317
111. Type-C-Income	(as per variable 110)	318-324
112. Type-D-Income	(as per variable 110)	325-331
113. Type-E-Income	(as per variable 110)	332-338
114. Dividends and Interest	1964-1975 = +000000 0 = NIU/none [1976+] else = actual amount [1976+]	339-345
115. Rental Income	(as per variable 114)	346-352
116. Public-Assistance Income	(as per variable 114)	353-359
117. Supplemental Security Income	(as per variable 114)	360-366
118. CPI-Index	1977 base 3 implied decimal places [universe = all persons]	367-370
119. Version Number Major I.D.		371-374

64-88

"V03,"
[1964-67, 1980+ = 0000]

89-92

"NBER"

120. Version Number
Minor I.D.

375-376

64-88

01-xx = actual minor I.D. code
for a given year
[1964-67, 1980+ = 00]

89-92

00

(Variables 121 through 129 are not yet included in 1968-1979)

121. Presence of Own
Children by Age-
Detailed (in
families)

377-378

	64-67
none	00
under 3 only	01
3-5	02
under 3 and 3-5 only	03
6-11 only	04
under 3, 6-11 only	05
3-5 and 6-11 only	06
under 3, 3-5 and 6-11 only	07
12-17 only	08
under 3 and 12-17 only	09
3-15 and 12-17 only	10
under 3, 3-5 and 12-17 only	11
6-11 and 12-17 only	12
under 3, 6-11 and 12-17 only	13
3-5, 6-11 and 12-17 only	14
under 3, 3-5, 6-11 and 12-17	15
[universe = all] [1968+ = 0]	

68-75

NIU	0
none <18	1
all <6	2
some <6, some 6-17	3
all 6-17	4

76-88

NIU	0
some <3	1
all 3-5	2
all 6-17	3
none <18	4

122. Own Children Under 6
(in family)

379

actual count	0-6
[in 1980+, 6 = 6+ children]	
7 or more	7
[universe = all persons] [1968-79 = 0]	

123. Own Children Under 18
(in family)

(as per variable 122)

380

124. Related Children Under
18 Other Than Own
Children (in family)

(as per variable 122, except
1968+ = 0)

381

125. Family Members
Under 18

(As per variable 122)

382

126. Family Members
Over 18 Other Than
Head or Wife

383

none

0

all 18-24, single 1
 some 18-24, single and other 2
 none 18-24, single and other 3
 [universe = all]
 [1968+ = 0]

127. Female Family Members 18+ Other Than Head or Wife 384

none 0
 all in labor force 1
 1+ (not all) in labor force 2
 [universe = all]
 [1968+ = 0]

128. Labor Force Status of Family Members 14+ Other Than Head or Wife 385

1+ employed 0
 1+ unemployed, none employed 1
 none in labor force 2
 no other members 14+ 3
 [universe = all]
 [1968+ = 0]

129. Household Flag 386

household starts with primary family or individual 1
 household starts with a subfamily family 2
 household starts with a secondary family 3
 household starts with a secondary individual 4
 household starts with a person record with a new I.D. value of family-type in CPS was unusable 9
 [1962, 1968+ = 0]

1 For Family in Household (columns 7-9) there are no more than one subfamily counted per household. This was necessitated by the fact that there was no way to distinguish between persons in the first subfamily and those in subsequent ones.

2 Variables 5-9 are combined in 1977 through 1979 (originally) to form a variable called Household Identification Number.

3 All income variables have a leading + or - to indicate whether they are positive or are losses. Poverty Cutoff Dollars does not.

APPENDIX A
Industry Codes

-to 1983 -

Agriculture	01
Forestry and Fisheries	02
Mining	03
Construction	04
Lumber	05
Furniture	06
Stone	07
Primary Metals	08
Fabricated Metals	09
Machinery except Electrical	10
Electrical Machinery	11
Automobiles	12
Transportation (Other)	13
Instruments	14
Miscellaneous Manufacturing	15
Food and Kindred Establishments	16
Textile Mills	17
Apparel	18
Printing and Publishing	19
Chemical -	20
Other Nondurables	21
Railroad and Railway Express	22
Other Transportation	23
Telecommunications	24
Public Utilities	25
Wholesale Trade	26
Eating and Drinking Establishments	27
Other Retail Establishments	28
Banking	29
Insurance and Real Estate	30
Business Services	31
Repair Services	32
Private Households	33
Personal Services except Private Households	34
Entertainment and Recreation	35
Medical except Hospitals	36
Hospitals	37
Welfare and Religious Services	38
Educational Services	39
Other Professional	40
Postal Service	41
Federal Government	42
State Government	43
Local Government	44
Not Employed or Experienced Unemployed and Armed Forces	99

- 1983 on -

Agriculture Service	01
Other Agriculture	02
Mining	03
Construction	04
Manufacturing (Durable Goods)	
Lumber and wood products, except furniture	05
Furniture and Fixtures	06
Stone clay, glass, and concrete products	07
Primary metals	08
Fabricated metal	09
Not specified metal industries	10
Machinery, except electrical	11
Electrical machinery, equipment, and supplies	12
Motor vehicles and equipment	13
Aircraft and parts	14
Other transportation equipment	15
Professional and photographic equipment, and watches	16
Toys, amusements, and sporting goods	17
Miscellaneous and not specified manufacturing industries	18
Manufacturing (Nondurable Goods)	
Food and kindred products	19
Tobacco manufactures	20
Textile mill products	21
Apparel and other finished textile products	22
Paper and allied products	23
Printing, publishing, and allied products	24
Chemicals and allied products	25
Petroleum and coal products	26
Rubber and miscellaneous plastics products	27
Leather and leather products	28
Transportation	29
Communications	30
Utilities and Sanitary Services	31
Wholesale Trade	32
Retail Trade	33
Banking and Other Finance	34
Insurance and Real Estate	35
Private Household Services	36
Business Services	37
Repair Services	38
Personal Services, except Private Household	39
Entertainment and Recreation Services	40
Hospitals	41
Health Services, Except Hospitals	42

Educational Services	43
Social Services	44
Other Professional Services	45
Forestry and Fisheries	46
Justice, Public Order and Safety	47
Administration of Human Resource Programs	48
National Security and Internal Affairs	49
Other Public Administration	50
Armed Forces	51

APPENDIX A-1
 Industry Codes
 1970-1982

AGRICULTURE, FORESTRY, AND FISHERIES			
Agricultural production (01)	017	Other primary nonferrous industries (3331-3333, 3339, part 334, 3351, 3356, 3357, 3362, 3369, part 3392, part 3399)	149
Agricultural services, except horticultural (07 except 0713 and 073)	018	Cutlery, hand tools, and other hardware (342)	157
Horticultural services (073)	019	Fabricated structural metal products (344)	158
Forestry (08)	027	Screw machine products (345)	159
Fisheries (09)	028	Metal stamping (346)	167
Agriculture, forestry, and fisheries--allocated	029	Miscellaneous fabricated metal products (341, 343, 347, 348, 349)	168
MINING		Not specified metal industries	169
Metal mining (10)	047	Machinery, except electrical	
Coal mining (11, 12)	048	Engines and turbines (351)	177
Crude petroleum and natural gas extractions (13)	049	Farm machinery and equipment (352)	178
Nonmetallic mining and quarrying, except fuel (14)	057	Construction and material handling machines (353)	179
Mining--allocated	058	Metalworking machinery (354)	187
CONSTRUCTION		Office and accounting machines (357 except 3573)	188
General building contractors (15)	067	Electronic computing equipment (3573)	189
General contractors, except building (16)	068	Machinery, except electrical, n.e.c. (355, 356, 358, 359)	197
Special trade contractors (17)	069	Not specified machinery	198
Not specified construction	077		
Construction--allocated	078	Electrical machinery, equipment, and supplies	
MANUFACTURING		Household appliances (363)	199
DURABLE GOODS		Radio, T. V., and communication equipment (365, 366)	207
Lumber and wood products, except furniture		Electrical machinery, equipment, and supplies, n.e.c. (361, 362, 364, 367, 369)	208
Logging (241)	107	Not specified electrical machinery, equipment, and supplies	209
Sawmills, planing mills, and mill work (242, 243)	108		
Miscellaneous wood products (244, 249)	109	Transportation equipment	
Furniture and fixtures (25)	118	Motor vehicles and motor vehicle equipment (371)	219
Stone, clay, and glass products		Aircraft and parts (372)	227
Glass and glass products (321-323)	119	Ship and boat building and repairing (373)	228
Cement, concrete, gypsum, and plaster products (324, 327)	127	Railroad locomotives and equipment (374)	229
Structural clay products (325)	128	Mobile dwellings and campers (3791)	237
Pottery and related products (326)	137	Cycles and miscellaneous transportation equipment (375, 3799)	238
Miscellaneous nonmetallic mineral and stone products (328, 329)	138		
Metal industries		Professional and photographic equipment, and watches	
Blast furnaces, steel works, rolling and finishing mills (3312, 3313)	139	Scientific and controlling instruments (381, 382)	239
Other primary iron and steel industries (3315-3317, 332, 3391, part 3399)	147	Optical and health services supplies (383, 384, 385)	247
Primary aluminum industries (3334, part 334, 3352, 3361, part 3392, part 3399)	148	Photographic equipment and supplies (386)	248
		Watches, clocks, and clockwork-operated devices (387)	249
		Not specified professional equipment	257
		Ordnance (19)	258
		Miscellaneous manufacturing industries (39)	259
		Manufacturing, durable goods--allocated	267

NONDURABLE GOODS		Rubber products (301-303, 306)	379
Food and kindred products		Miscellaneous plastic products (307)	387
Meat products (201)	268	Leather and leather products	
Dairy products (202)	269	Tanned, curried, and finished leather (311)	388
Canning and preserving fruits, vegetables, and sea foods (203)	278	Footwear, except rubber (313, 314)	389
Grain-mill products (204, 0713)	279	Leather products, except footwear (312, 315-317, 319)	397
Bakery products (205)	287	Manufacturing, nondurable goods--allocated	399
Confectionery and related products (207)	288	Not Specified manufacturing Industries	398
Beverage industries (208)	289	Transportation	
Miscellaneous food preparation and kindred products (206,209)	297	Railroads and railway express service (40)	407
Not specified food industries	298	Street railways and bus lines (411, 413-415, 417)	408
Tobacco manufactures (21)	299	Taxicab service (412)	409
Textile mill products		Trucking service (421,423)	417
Knitting mills (225)	307	Warehousing and storage (422)	418
Dyeing and finishing textiles, except wool and knit goods (226)	308	Water transportation (44)	419
Floor coverings, except hard surface (227)	309	Air transportation (45)	427
Yarn, thread, and fabric mills (221-224, 228)	317	Pipe lines, except natural gas (46)	428
Miscellaneous textile mill products (229)	318	Services incidental to transportation (47)	429
Apparel and other fabricated textile products		Communications	
Apparel and accessories (231-238)	319	Radio broadcasting and television (483)	447
Miscellaneous fabricated textile products (239)	327	Telephone (wire and radio) (481)	448
Paper and allied products		Telegraph and miscellaneous communication services (482, 489)	449
Pulp, paper, and paperboard mills (261-263, 266)	328	Utilities and sanitary services	
Miscellaneous paper and pulp products (264)	329	Electric light and power (491)	467
Paperboard containers and boxes (265)	337	Electric-gas utilities (493)	468
Printing, publishing, and allied industries		Gas and steam supply systems (492, 496)	469
Newspaper publishing and printing (271)	338	Water supply (494)	477
Printing, publishing, and allied industries, except newspapers (272-279)	339	Sanitary services (495)	478
Chemicals and allied products		Other and not specified utilities (497)	479
Industrial chemicals (281)	347	Transportation, communications, and other public utilities--allocated	499
Plastics, synthetics and resins, except fibers (282, except 2823 and 2824)	348	WHOLESALE AND RETAIL TRADE	
Synthetic fibers (2823, 2824)	349	Wholesale trade	
Drugs and medicines (283)	357	Motor vehicles and equipment (501)	507
Soaps and cosmetics (284)	358	Drugs, chemicals and allied products (502)	508
Paints, varnishes, and related products (285)	359	Dry goods and apparel (503)	509
Agricultural chemicals (287)	367	Food and related products (504)	527
Miscellaneous chemicals (286, 289)	368	Farm products--raw materials (505)	528
Not specified chemicals and allied products	369	Electrical goods (506)	529
Petroleum and coal products		Hardware, plumbing, and heating supplies (507)	537
Petroleum refining (291)	377	Not specified electrical and hardware products	538
Miscellaneous petroleum and coal products (295, 299)	378	Machinery equipment and supplies (508)	539
Rubber and miscellaneous plastic products		Metals and minerals, n.e.c. (5091)	557
		Petroleum products (5092)	558
		Scrap and waste materials (5093)	559
		Alcoholic beverages (5095)	567
		Paper and its products (5096)	568
		Lumber and construction materials (5098)	569

Wholesalers, n.e.c. (5094, 5097, 5099)	587	Computer programing services (part 7392)	739
Not specified wholesale trade	588	Detective and protective services (7393)	747
Wholesale trade--allocated	599	Business services, n.e.c.	
		(732, 733, 735, 7394, 7395, 7396, 7399)	748
Retail trade		Automobile services, except repair (751, 752, 754)	749
Lumber and building material retailing (521-524)	607	Automobile repair and related services (753)	757
Hardware and farm equipment stores (525)	608	Electrical repair shops (762, 7694)	758
Department and mail order establishments (531, 532)	609	Miscellaneous repair services	
Limited price variety stores (533)	617	(763, 764, 769, except 7694)	759
Vending machine operators (534)	618	Business and repair services--allocated	767
Direct selling establishments (535)	619		
Miscellaneous general merchandise stores (539)	627	PERSONAL SERVICES	
Grocery stores (541)	628	Private households (88)	769
Dairy products stores (545)	629	Hotels and motels (701)	777
Retail bakeries (546)	637	Lodging places, except hotels and motels	
Food stores, n.e.c. (542-544, 549)	638	(702, 703, 704)	778
Motor vehicle dealers (551, 552)	639	Laundering, cleaning, and other garment	
Tire, battery, and accessory dealers (553)	647	services (721, 727)	779
Gasoline service stations (554)	648	Beauty shops (723)	787
Miscellaneous vehicle dealers (559)	649	Barber shops (724)	788
Apparel and accessories stores, except shoe		Shoe repair shops (725)	789
stores (56 except 566)	657	Dressmaking shops (part 729)	797
Shoe stores (566)	658	Miscellaneous personal services (722, 726, part 729)	798
Furniture and home furnishings stores (571)	667	Personal services--allocated	799
Household appliances, TV, and radio			
stores (572, 573)	668	ENTERTAINMENT AND RECREATION SERVICES	
Eating and drinking places (58)	669	Theaters and motion pictures (78, 792)	807
Drug stores (591)	677	Bowling alleys, billiard and pool parlors (793)	808
Liquor stores (592)	678	Miscellaneous entertainment and recreation	
Farm and garden supply stores (596)	679	services (791, 794)	809
Jewelry stores (597)	687	Entertainment and recreation services--allocated	817
Fuel and ice dealers (598)	688		
Retail florists (5992)	689	PROFESSIONAL AND RELATED SERVICES	
Miscellaneous retail stores (593-595, 599 exc. 5992)	697	Offices of physicians (801, 803)	828
Not specified retail trade	698	Offices of dentists (802)	829
Retail trade--allocated	699	Offices of chiropractors (804)	837
		Hospitals (806)	838
FINANCE, INSURANCE, AND REAL ESTATE		Convalescent institutions (8092)	839
Banking (60)	707	Offices of health practitioners, n.e.c. (part 8099)	847
Credit agencies (61)	708	Health services, n.e.c. (807, part 8099)	848
Security, commodity brokerage, and		Legal services (81)	849
investment companies (62, 67)	709	Elementary and secondary schools (821)	857
Insurance (63, 64)	717	Colleges and universities (822)	858
Real estate, incl. real estate-insurance-law		Libraries (823)	859
offices (65, 66)	718	Educational services, n.e.c. (824, 829)	867
		Not specified educational services	868
BUSINESS AND REPAIR SERVICES		Museums, art galleries, and zoos (84)	869
Finance, insurance, and real estate--allocated	719	Religious organizations (866)	877
Advertising (731)	727	Welfare services (part 867)	878
Services to dwellings and other buildings (734)	728	Residential welfare facilities (part 867)	879
Commercial research, development, and		Nonprofit membership organizations (861-865, 869)	887
testing labs (7391, 7397)	729	Engineering and architectural services (891)	888
Employment and temporary help agencies (736, 7398)	737	Accounting, auditing, and bookkeeping services (893)	889
Business management and consulting		Miscellaneous professional and related services	
services (part 7392)	738	(892, 899)	897

Professional and related services--allocated 899

PUBLIC ADMINISTRATION

Postal service (part 9190) 907

Federal public administration (part 9190, 9490) 917

State public administration (9290) 927

Local public administration (9390) 937

Public administration--allocated 947

WORKERS NOT CLASSIFIABLE BY INDUSTRY

Unemployed persons, last worked 1959 or earlier * 997

Industry not reported** 999

* Found in experienced civilian labor force universe only.

** Used for Industry 5-years ago item only.

APPENDIX A-2
Industry Codes

K.4 Coding for 1983-1991

1980 Census of Population - Industry Classification

(Numbers in parentheses are the 1972 SIC code equivalents;
"Pt" means part; "n.e.c." means not else where classified.)

Industry	Census Code		
not used	0-9		
AGRICULTURE, FORESTRY, AND FISHERIES	10-31		
Agricultural production, crops (01)	10		
Agricultural production, livestock (02)	11		
not used [83-91]	12-19		
Veterinary services [1992+]	12		
Agricultural services, except horticultural(07, except 078)[83-91]	20		
Horticultural services (078) [83-91]	21		
Landscape and horticultural services [92+]	20		
not used	22-29		
Forestry (08) [83-91]	30		
Agricultural services, n.e.c. [92+]	30		
Fishing, hunting, and trapping (09) [83-91]	31		
Forestry [92+]	31		
Fishing, hunting, and trapping [92+]	32		
not used [83-91]	32-39		
not used [92+]	33-39		
MINING	40-50		
Metal mining (10)	40		
Coal mining (11, 12)	41		
Crude petroleum and natural gas extraction (13) [83-91]	42		
Oil and gas extraction [92+]	42		
not used	43-49		
Nonmetallic mining and quarrying, except fuel (14)	50		
not used	51-59		
CONSTRUCTION (15, 16, 17)	60		
not used	61-99		
MANUFACTURING	100-392		
Nondurable Goods	100-222		
Food and kindred products	100-122		
Meat products (201)	100		
Dairy products (202)	101		
		Canned and preserved fruits and vegetables (203) [83-91]	102
		Canned, frozen, and preserved fruits & vegetables not used	102 103-109
		Grain mill products (204)	110
		Bakery products (205)	111
		Sugar and confectionery products (206) not used	112 113-119
		Beverage industries (208)	120
		Miscellaneous food preparations & kindred products (207,209)	121
		Not specified food industries not used	122 123-129
		Tobacco manufactures (21) not used	130 131
		Textile mill products	132-150
		Knitting mills (225)	132
		not used	133-139
		Dyeing & finishing textiles, except wool & knit goods (226)	140
		Floor coverings, except hard surface (227) [83-91]	141
		Carpets and rugs	141
		Yarn, thread, and fabric mills (228, 221-224) not used	142 143-149
		Miscellaneous textile mill products (229)	150
		Apparel and other finished textile products	151-152
		Apparel and accessories, except knit (231-238)	151
		Miscellaneous fabricated textile products (239) not used	152 153-159
		Paper and allied products	160-162
		Pulp, paper, and paperboard mills (261-263, 266)	160
		Miscellaneous paper and pulp products (264)	161
		Paperboard containers and boxes (265) not used	162 163-170
		Printing, publishing, and allied industries	171-172
		Newspaper publishing and printing (271)	171
		Printing, publishing, & allied industries, except newspapers (272-279) not used	172 173-179
		Chemicals and allied products	180-192
		Plastics, synthetics, and resins (282)	180
		Drugs (283)	181
		Soaps and cosmetics (284) not used	182 183-189
		Paints, varnishes, and related products (285)	190
		Agricultural chemicals (287)	191
		Industrial and miscellaneous chemicals (281, 286, 289) not used	192 193-199
		Petroleum and coal products	200-201
		Petroleum refining (291)	200

Miscellaneous petroleum and coal products (295, 299)	201	not used	302-309
not used	202-209	Machinery, except electrical	310-332
Rubber and miscellaneous plastics products	210-212	Engines and turbines (351)	310
Tires and inner tubes (301)	210	Farm machinery and equipment (352)	311
Other rubber products, and plastics footwear and belting(302-304, 306)	211	Construction and material handling machines (353)	312
Miscellaneous plastics products (307)	212	not used	313-319
not used	213-219	Metalworking machinery (354)	320
Leather and leather products	220-222	Office and accounting machines (357, except 3573)	321
Leather tanning and finishing (311)	220	Electronic computing equipment (3573) [83-91]	322
Footwear, except rubber and plastic (313, 314)	221	Computers and related equipment [92+]	322
Leather products, except footwear (315-317, 319)	222	not used	323-330
not used	223-229	Machinery, except electrical, n.e.c. (355, 356, 358, 359)	331
Durable Goods	230-391	Not specified machinery	332
Lumber and wood products, except furniture	230-241	not used	333-339
Logging (241)	230	Electrical machinery, equipment, and supplies	340-350
Sawmills, planing mills, and millwork (242, 243)	231	Household appliances (363)	340
Wood buildings and mobile homes (245)	232	Radio, T.V., and communication equipment (365, 366)	341
not used	233-240	Electrical machinery, equipment, and supplies, n.e.c. (361, 362, 364, 367, 369)	342
Miscellaneous wood products (244, 249)	241	not used	343-349
Furniture and fixtures (25)	242	Not specified electrical machinery, equipment, & supplies	350
not used	243-249	Transportation equipment	351-370
Stone, clay, glass, and concrete products	250-262	Motor vehicles and motor vehicle equipment (371)	351
Glass and glass products (321-323)	250	Aircraft and parts (372)	352
Cement, concrete, gypsum, and plaster products (324, 327)	251	not used	353-359
Structural clay products (325)	252	Ship and boat building and repairing (373)	360
not used	253-260	Railroad locomotives and equipment (374)	361
Pottery and related products (326)	261	Guided missiles, space vehicles, and parts (376)	362
Miscellaneous nonmetallic mineral & stone products (328,329)	262	not used	363-369
not used	263-269	Cycles and miscellaneous transportation equipment (375, 379)	370
Metal industries	270-301	Professional and photographic equipment, and watches	371-382
Blast furnaces, steelworks, rolling & finishing mills (331)	270	Scientific and controlling instruments (381, 382)	371
Iron and steel foundries (332)	271	Optical and health services supplies (383, 384, 385) [83-91]	372
Primary aluminum industries (3334, part 334, 3353-3355,3361)	272	Medical, dental, and optical instruments and supplies [92+]	372
not used	273-279	not used	373-379
Other primary metal industries (3331-3333, 3339, part 334, 3351, 3356, 3357, 3362, 3369, 339)	280	Photographic equipment and supplies (386)	380
Cutlery, handtools, and other hardware (342) [83-91]	281	Watches, clocks, and clockwork operated devices (387)	381
Cutlery, handtools, and general hardware [92+]	281	Not specified professional equipment [83-91]	382
Fabricated structural metal products (344)	282	not used	383-389
not used	283-289	Toys, amusement, and sporting goods (394)	390
Screw machine products (345)	290	Miscellaneous manufacturing industries (39 except 394)	391
Metal forgings and stampings (346)	291	Not specified manufacturing industries*	392
Ordnance (348)	292		
not used	293-299		
Miscellaneous fabricated metal products (341,343,347,349)	300	not used	393-399
Not specified metal industries	301		

TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	400-472	Hardware, plumbing and heating supplies (507)	521
Transportation	400-432	Not specified electrical and hardware products [83-91]	522
Railroads (40)	400	not used	523-529
Bus service and urban transit (41 except 412)	401	Machinery, equipment, and supplies (508)	530
Taxicab service (412)	402	Scrap and waste materials (5093)	531
not used	403-409	Miscellaneous wholesale, durable goods (5094, 5099)	532
Trucking service (421, 423)	410	not used	533-539
Warehousing and storage (422)	411	Nondurable Goods	540-571
U.S. Postal Service (43)	412	Paper and paper products (511)	540
not used	413-419	Drugs, chemicals, and allied products (512, 516)	541
Water transportation (44)	420	Apparel, fabrics, and notions (513)	542
Air transportation (45)	421	not used	543-549
Pipe lines, except natural gas (46)	422	Groceries and related products (514)	550
not used	423-431	Farm products - raw materials (515)	551
Services incidental to transportation (47)	432	Petroleum products (517)	552
not used	433-439	not used	553-559
Communications	440-442	Alcoholic beverages (518)	560
Radio and television broadcasting (483) [83-91]	440	Farm supplies (5191)	561
Radio and television broadcasting and cable [92+]	440	Miscellaneous wholesale, nondurable goods (5194, 5198, 5199)	562
Telephone, wire and radio (481) [83-91]	441	not used	563-570
Telephone communications	441	Not specified wholesale trade	571
Telegraph and miscellaneous communication services (482, 489)	442		
not used [83-91]	443-459		
not used [92+]	443-449, 453-459	not used	572-579
Utilities and sanitary services	460-472	RETAIL TRADE	580-691
Electric light and power [92+]	450	Lumber and building material retailing (521, 523)	580
Gas and steam supply systems [92+]	451	Hardware stores (525)	581
Electric and gas, and other combinations [92+]	452	Retail nurseries and garden stores (526)	582
Electric light and power (491) [83-91]	460	not used	583-589
Gas and steam supply systems (492, 496) [83-91]	461	Mobile home dealers (527)	590
Electric and gas, and other combinations (493) [83-91]	462	Department stores (531)	591
not used	463-469	Variety stores (533)	592
Water supply and irrigation (494, 497)	470	not used	593-599
Sanitary services (495)	471	Miscellaneous general merchandise stores (539)	600
Not specified utilities	472	Grocery stores (541)	601
		Dairy products stores (545)	602
not used	473-499	not used	603-609
WHOLESALE TRADE	500-571	Retail bakeries (546)	610
Durable Goods	500-532	Food stores, n.e.c. (542, 543, 544, 549)	611
Motor vehicles and equipment (501)	500	Motor vehicle dealers (551, 552)	612
Furniture and home furnishings (502)	501	not used	613-619
Lumber and construction materials (503)	502	Auto and home supply stores (553)	620
not used	503-509	Gasoline service stations (554)	621
Sporting goods, toys, and hobby goods (504) [83-91]	510	Miscellaneous vehicle dealers (555, 556, 557, 559)	622
Professional and commercial equipment and supplies [92+]	510	not used [83-91]	623-629
Metals and minerals, except petroleum (505)	511	not used [92+]	624-629
Electrical goods (506)	512	Apparel and accessory stores, except shoe [92+]	623
not used	513-520	Apparel and accessory stores, except shoe (56, except 566)[83-91]	630
		Shoe stores [92+]	630
		Shoe stores (566) [83-91]	631
		Furniture and home furnishings stores [92+]	631

Furniture and home furnishings stores (571) [83-91]	632	Advertising (731)	721
Household appliance stores [92+]	632	Services to dwellings and other buildings (734)	722
Radio, TV, and computer stores [92+]	633	not used	723-729
not used [83-91]	633-639	Commercial research, development, and testing labs (7391, 7397) [83-91]	730
not used [92+]	634-639	Personnel supply services (736)	731
Household appliances, TV, and radio stores (572,573) [83-91]	640	Business management and consulting services (7392) [83-91]	732
Music stores [92+]	640	Computer and data processing services [92+]	732
Eating and drinking places (58)	641	not used	733-739
Drug stores (591)	642	Computer and data processing services (737) [83-91]	740
not used	643-649	Detective and protective services [92+]	740
Liquor stores (592)	650	Detective and protective services (7393) [83-91]	741
Sporting goods, bicycles, and hobby stores (5941,5945,5946)	651	Business services, n.e.c [92+]	741
Book and stationery stores (5942, 5943)	652	Business services, n.e.c. (732,733,735,7394,7395,7396,7399)[83-91]	742
not used	653-659	Automotive rental and leasing, without drivers [92+]	742
Jewelry stores (5944)	660	not used	743-749
Gift, novelty, and souvenir shops [92+]	661	Automotive services, except repair (751, 752, 754) [83-91]	750
Sewing, needlework, and piece goods stores (5949) [83-91]	661	Automobile parking and carwashes [92+]	750
Sewing, needlework, and piece goods stores [92+]	662	Automotive repair shops (753) [83-91]	751
Mail order houses (5961) [83-91]	662	Automotive repair and related services [92+]	751
Catalog and mail order houses [92+]	663	Electrical repair shops (762, 7694)	752
not used [83-91]	663-669	not used	753-759
not used [92+]	664-669	Miscellaneous repair services (763, 764, 7692, 7699)	760
Vending machine operators (5962)	670		
Direct selling establishments (5963)	671	PERSONAL SERVICES	761-791
Fuel and ice dealers (598) [83-91]	672	Private households (88)	761
Fuel dealers [92+]	672	Hotels and motels (701)	762
not used	673-680	not used	763-769
Retail florists (5992)	681	Lodging places, except hotels and motels (702, 703, 704)	770
Miscellaneous retail stores (593,5947,5948,5993,5994,5999)	682	Laundry, cleaning, and garment services (721)	771
not used	683-690	Beauty shops (723)	772
Not specified retail trade	691	not used	773-779
not used	692-699	Barber shops (724)	780
FINANCE, INSURANCE, AND REAL ESTATE	700-712	Funeral service and crematories (726)	781
Banking (60)	700	Shoe repair shops (725)	782
Savings and loan associations (612) [83-91]	701	not used	783-789
Savings institutions, including credit unions [92+]	701	Dressmaking shops (part 729)	790
Credit agencies, n.e.c. (61, except 612)	702	Miscellaneous personal services (722, part 729)	791
not used	703-709	not used	792-799
Security, commodity brokerage, and investment companies (62,67)	710		
Insurance (63, 64)	711	ENTERTAINMENT AND RECREATION SERVICES	800-802
Real estate, including real estate-insurance-law offices (65,66) [83-91]	712	Theaters and motion pictures (78, 792)	800
Real estate, including real estate-insurance offices [92+]	712	Bowling alleys, billiard and pool parlors (793) [83-91]	801
not used	713-720	Video tape rental [92+]	801
BUSINESS AND REPAIR SERVICES	721-760	Bowling centers [92+]	802
		Miscellaneous entertainment & recreation services (791, 794, 799) [83-91]	802

Miscellaneous entertainment and recreational services [92+]	810	Research, development, and testing services [92+]	891
not used [83-91]	803-811	Miscellaneous professional and related services (899) [83-91]	892
not used [92+]	803-809, 811	Management and public relations services [92+]	892
		Miscellaneous professional and related services [92+]	893
		not used [83-91]	893-899
		not used [92+]	894-899
PROFESSIONAL AND RELATED SERVICES	812-892	PUBLIC ADMINISTRATION	900-932
Offices of physicians (801, 803) [83-91]	812	Executive and legislative offices (911-913)	900
Offices and clinics of physicians [92+]	812	General government, n.e.c. (919)	901
not used	813-819	not used	902-909
Offices of dentists (802) [83-91]	820	Justice, public order, and safety (92)	910
Offices and clinics of dentists [92+]	820	not used	911-920
Offices of chiropractors (8041) [83-91]	821	Public finance, taxation, and monetary policy (93)	921
Offices and clinics of chiropractors [92+]	821	Administration of human resources programs (94)	922
Offices of optometrists (8042) [83-91]	822	not used	923-929
Offices and clinics of optometrists [92+]	822	Administration of environmental quality & housing programs (95)	930
not used	823-829	Administration of economic programs (96)	931
Offices of health practitioners, n.e.c. (8049) [83-91]	830	National security and international affairs (97)	932
Offices and clinics of health practitioners, n.e.c [92+]	830		
Hospitals (806)	831	not used	933-990
Nursing and personal care facilities (805)	832		
not used	833-839	Assigned to persons whose labor force status is unemployed and whose last job was Armed Forces.	991
Health services, n.e.c. (807, 808, 809)	840	Assigned to persons whose labor force status is unemployed and who last worked in 1974 or earlier.	992
Legal services (81)	841	not used	993+
Elementary and secondary schools (821)	842		
not used	843-849		
Colleges and universities (822)	850		
Business, trade, and vocational schools (824) [83-91]	851		
Vocational schools [92+]	851		
Libraries (823)	852		
not used	853-859		
Educational services, n.e.c. (829)	860		
Job training and vocational rehabilitation services (833)	861		
Child day care services (835)	862		
Family child care homes [92+]	863		
not used [83-91]	863-869		
not used [92+]	864-869		
Residential care facilities, without nursing (836)	870		
Social services, n.e.c. (832, 839)	871		
Museums, art galleries, and zoos (84)	872		
Labor unions [92+]	873		
not used [83-91]	873-879		
not used [92+]	874-879		
Religious organizations (866)	880		
Membership organizations (861-865, 869) [83-91]	881		
Membership organizations, n.e.c [92+]	881		
Engineering, architectural, and surveying services (891)	882		
not used	883-889		
Accounting, auditing, and bookkeeping services (893)	890		
Noncommercial educational and scientific research (892) [83-91]	891		

* When shown separately, "Not specified manufacturing" is at the same level as "Nondurable goods" and "Durable goods." When not shown, it is tallied with "Durable goods".

APPENDIX B
Occupation Codes

- to 1983 -

Engineers, Technical	01
Medical and Other Health Workers:	
Salaried	02
Self-employed	03
Teachers, except College	04
Other Professional, Technical and Kindred:	
Salaried	05
Self-employed	06
Farmers and Farm Managers	07
Managers, Officials and Proprietors except Farm:	
Salaried	08
Self-employed, Retail Trade	09
Self-employed, Not Retail Trade	10
Stenographers, Typists, Secretaries	11
Other Clerical and Kindred Workers	12
Sales Workers:	
Retail Trade	13
Not Retail Trade	14
Carpenters	15
Construction, Craftsmen, except Carpenters	16
Foremen (N.E.C.)	17
Machinists and Job Setter	18
Mechanics and Repairmen:	
Automobiles	19
Noir-automobiles	20
Metal Craftsmen except Machinists and Mechanics	21
Other Craftsmen and Kindred Workers	22
Drivers and Delivery Men	23
Mine Operatives and Laborers (N.E.C.)	24
Operatives:	
Motor Vehicles and Equipment Mfg.	25
Other Durable Goods	26
Nondurable Goods Mfg.	27
Operatives-No-manufacturing Industry	28
Private Household Workers	29
Protective Service Workers	30
Waiters, Cooks and Bartenders	31
Other Service Workers	32
Farm Laborer and Foremen:	
Paid	33
Unpaid	34
Laborers:	
Construction	35
Manufacturing	36
Other Industries	37
Not Employed or Experienced Unemployed and Armed Forces	99

- 1983 on -

Administrators and Officials, Public	
Administrators	01
Other Executive, Administrators, and Managers	02
Management Related Occupations	03
Engineers	04
Mathematical and Computer Scientists	05
Natural Scientists	06
Health Diagnosing Occupations	07
Health Assessment and Treating Occupations	08
Teachers, College and University	09
Teachers, except College and University	10
Lawyers and Judges	11
Other Professional Specialty Occupations	12
Health Technologists and Technicians	13
Engineering and Science Technicians	14
Technicians, except Health, Engineering, and Science	15
Supervisors and Proprietors, Sales Occupations	16
Sales Representatives, Finance, and Business Service	17
Sales Representatives, Commodities, except Retail	18
Sales Workers, Retail and Personal Services	19
Sales Related Occupations	20
Supervisors -- Administrative Support	21
Computer Equipment Operators	22
Secretaries, Stenographers, and Typists	23
Financial Records, Processing Occupations	24
Mail and Message Distributing	25
Other Administrative Support Occupations, Including Clerical	26
Private Household Service Occupations	27
Protective Service Occupations	28
Food Service Occupations	29
Health Service Occupations	30
Cleaning and Building Service Occupations	31
Personal Service Occupations	32
Mechanics and Repairers	33
Construction Trades	34
Other Precision Production Occupations	35
Machine Operators and Tenders, except Precision	36
Fabricators, Assemblers, Inspectors, and Samplers	37
Motor Vehicle Operators	38
Other Transportation and Material Moving Occupations	39
Construction Laborer	40
Freight, Stock and Material Handlers	41

Other Handlers, Equipment Cleaners, and Laborers	42
Farm Operators and Managers	43
Farm Workers and Related Occupations	44
Forestry and Fishing Occupations	45
Armed Forces, Currently Civilian	46

APPENDIX B-1
Occupation Codes
1970-1982

PROFESSIONAL, TECHNICAL, AND KINDRED
WORKERS

Accountants	001
Architects	002
Computer specialists	
Computer programmers	003
Computer systems analysts	004
Computer specialists, n.e.c.	005
Engineers	
Aeronautical and astronautical engineers	006
Chemical engineers	010
Civil engineers	011
Electrical and electronic engineers	012
Industrial engineers	013
Mechanical engineers	014
Metallurgical and materials engineers	015
Mining engineers	020
Petroleum engineers	021
Sales engineers	022
Engineers, n.e.c.	023
Farm management advisors	024
Foresters and conservationists	025
Home management advisors	026
Lawyers and judges	
Judges	030
Lawyers	031
Libraries, archivists, and curators	
Librarians	032
Archivists and curators	033
Mathematical specialists	
Actuaries	034
Mathematicians	035
Statisticians	036
Life and physical scientists	
Agricultural scientists	042
Atmospheric and space scientists	043
Biological scientists	044
Chemists	045
Geologists	051
Marine scientists	052
Physicists and astronomers	053
Life and physical scientists, n.e.c.	054
Operations and systems researchers and analysts	055
Personnel and labor relations workers	056

Physicians, dentists, and related practitioners	
Chiropractors	061
Dentists	062
Optometrists	063
Pharmacists	064
Physicians, medical and osteopathic	065
Podiatrists	071
Veterinarians	072
Health practitioners, n.e.c.	073
Nurses, dietitians, and therapists	
Dietitians	074
Registered nurses	075
Therapists	076
Health technologists and technicians	
Clinical laboratory, technologists and technicians	080
Dental hygienists	081
Health record technologists and technicians	082
Radiologic technologists and technicians	083
Therapy assistants	084
Health technologists and technicians, n.e.c.	085
Religious workers	
Clergyman	086
Religious workers, n.e.c.	090
Social scientists	
Economists	091
Political scientists	092
Psychologists	093
Sociologists	094
Urban and regional planners	095
Social scientists, n.e.c.	096
Social and recreation workers	
Social workers	100
Recreation workers	101
Teachers, college and university	
Agriculture teachers	102
Atmospheric, earth, marine, and space teachers	103
Biology teachers	104
Chemistry teachers	105
Physics teachers	110
Engineering teachers	111
Mathematics teachers	112
Health specialties teachers	113
Psychology teachers	114

Business and commerce teachers	115
Economics teachers	116
History teachers	120
Sociology teachers	121
Social science teachers, n.e.c.	122
Art, drama, and music teachers	123
Coaches and physical education teachers	124
Education teachers	125
English teachers	126
Foreign language teachers	130
Home economics teachers	131
Law teachers	132
Theology teachers	133
Trade, industrial and technical teachers	134
Miscellaneous teachers, college and university	135
Teachers, college and university, subject not specified	140
Teachers, except college and university	
Adult education teachers	141
Elementary school teachers	142
Prekindergarten and kindergarten teachers	143
Secondary school teachers	144
Teachers, except college and university, n.e.c.	145
Engineering and science technicians	
Agriculture and biological technicians, except health	150
Chemical technicians	151
Draftsmen	152
Electrical and electronic engineering technicians	153
Industrial engineering technicians	154
Mechanical engineering technicians	155
Mathematical technicians	156
Surveyors	161
Engineering and science technicians, n.e.c.	162
Technicians, except health, and engineering and science	
Airplane pilots	163
Air traffic controllers	164
Embalmers	165
Flight engineers	170
Radio operators	171
Tool programmers, numerical control	172
Technicians, n.e.c.	173
Vocational and educational counselors	174
Writers, artists, and entertainers	
Actors	175
Athletes and kindred workers	180
Authors	181
Dancers	182

Designers	183
Editors and reporters	184
Musicians and composers	185
Painters and sculptors	190
Photographers	191
Public relations men and publicity writers	192
Radio and television announcers	193
Writers, artists, and entertainers, n.e.c.	194
Research workers, not specified	195
Professional, technical, and kindred workers --allocated	196

MANAGERS AND ADMINISTRATORS, EXCEPT FARM

Assessors, controllers, and treasurers; local public administration	201
Bank officers and financial managers	202
Buyers and shippers, farm products	203
Buyers, wholesale and retail trade	205
Credit men	210
Funeral directors	211
Health administrators	212
Construction inspectors, public administration	213
Inspectors, except construction; public administration	215
Managers and superintendents, building	216
Office managers, n.e.c.	220
Officers, pilots, and pursers; ship	221
Officials and administrators; public administration, n.e.c.	222
Officials of lodges, societies, and unions	223
Postmasters and mail superintendents	224
Purchasing agents and buyers, n.e.c.	225
Railroad conductors	226
Restaurant, cafeteria, and bar managers	230
Sales managers and department heads, retail trade	231
Sales managers, except retail trade	233
School administrators, college	235
School administrators, elementary and secondary	240
Managers and administrators, n.e.c.	245
Managers and administrators, except farm-- allocated	246

SALES WORKERS

Advertising agents and salesmen	260
Auctioneers	261
Demonstrators	262
Hucksters and peddlers	264
Insurance agents, brokers, and underwriters	265
Newsboys	266
Real estate agents and brokers	270
Stock and bond salesmen	271
Salesmen and sales clerks, n.e.c.	280

Sales representatives, manufacturing industries	281
Sales representatives, wholesale trade	282
Sales clerks, retail trade	283
Salesmen, retail trade	284
Salesmen of services and construction	285
Sales workers--allocated	296

CLERICAL AND KINDRED WORKERS

Bank tellers	301
Billing clerks	303
Bookkeepers	305
Cashiers	310
Clerical assistants, social welfare	311
Clerical supervisors, n.e.c.	312
Collectors, bill and account	313
Counter clerks, except food	314
Dispatchers and starters, vehicle	315
Enumerators and interviewers	320
Estimators and investigators, n.e.c.	321
Expeditors and production controllers	323
File clerks	325
Insurance adjusters, examiners, and investigators	326
Library attendants and assistants	330
Mail carriers, post office	331
Mail handlers, except post office	332
Messengers and office boys	333
Meter readers, utilities	334
Office machine operators	
Bookkeeping and billing machine operators	341
Calculating machine operators	342
Computer and peripheral equipment operators	343
Duplicating machine operators	344
Key punch operators	345
Tabulating machine operators	350
Office machine operators, n.e.c.	355
Payroll and timekeeping clerks	360
Postal clerks	361
Proofreaders	362
Real estate appraisers	363
Receptionists	364
Secretaries	
Secretaries, legal	370
Secretaries, medical	371
Secretaries, n.e.c.	372
Shipping and receiving clerks	374
Statistical clerks	375
Stenographers	376
Stock clerks and storekeepers	381
Teacher aides, exc. school monitors	382
Telegraph messengers	383

Telegraph operators	384
Telephone operators	385
Ticket, station, and express agents	390
Typists	391
Weighers	392
Miscellaneous clerical workers	394
Not specified clerical workers	395
Clerical and kindred workers -- allocated	396

CRAFTSMEN AND KINDRED WORKERS

Automobile accessories installers	401
Bakers	402
Blacksmiths	403
Boilermakers	404
Bookbinders	405
Brickmasons and stonemasons	410
Brickmasons and stonemasons, apprentices	411
Bulldozer operators	412
Cabinetmakers	413
Carpenters	415
Carpenter apprentices	416
Carpet installers	420
Cement and concrete finishers	421
Compositors and typesetters	422
Printing trades apprentice exc. pressmen	423
Cranemen, derrickmen, and hoistmen	424
Decorators and window dressers	425
Dental laboratory technicians	426
Electricians	430
Electrician apprentices	431
Electric power linemen and cablemen	433
Electrotypers and stereotypers	434
Engravers, exc. photoengravers	435
Excavating, grading, and road machine operators; exc. bulldozer	436
Floor layers; exc. tile setters	440
Foremen, n.e.c.	441
Forgemen and hammermen	442
Furniture and wood finishers	443
Furriers	444
Glaziers	445
Heat treaters; annealers, and temperers	446
Inspectors; scalers# and graders; log and lumber	450
Inspectors, n.e.c.	452
Jewelers and watchmakers	453
Job and die setters, metal	454
Locomotive engineers	455
Locomotive firemen	456
Machinists	461
Machinist apprentices	462
Mechanics and repairmen	
Air conditioning, heating, and refrigeration	470
Aircraft	471

Automobile body repairmen	472	Craftsmen and kindred workers--allocated	586
Automobile mechanics	473		
Automobile mechanic apprentices	474	OPERATIVES, EXCEPT TRANSPORT	
Data processing machine repairmen	475	Asbestos and insulation workers	601
Farm implement	480	Assemblers	602
Heavy equipment mechanics, incl. diesel	481	Blasters and powdermen	603
Household appliance and accessory installers and mechanics	482	Bottling and canning operatives	604
Loom fixers	483	Chainmen, rodmen, and axmen; surveying	605
Office machine	484	Checkers, examiners, and inspectors, manufacturing	610
Radio and television	485	Clothing ironers and pressers	611
Railroad and car shop	486	Cutting operatives, n.e.c.	612
Mechanic, exc. auto., apprentices	491	Dressmakers and seamstresses, except factory	613
Miscellaneous mechanics and repairmen	492	Drillers, earth	614
Not specified mechanics and repairmen	495	Dry wall installers and lathers	615
Millers; grain, flour, and feed	501	Dyers	620
Millwrights	502	Filers, polishers, sanders, and buffers	621
Molders, metal	503	Furnacemen, smeltermen, and pourers	622
Molder apprentices	504	Garage workers and gas station attendants	623
Motion picture projectionists	505	Graders and sorters, manufacturing	624
Opticians, and lens grinders and polishers	506	Produce graders and packers, except factory and farm	625
Painters, construction and maintenance	510	Heaters, metal	626
Painter apprentices	511	Laundry and dry cleaning operatives, n.e.c.	630
Paperhangers	512	Meat cutters and butchers, exc. manufacturing	631
Pattern and model makers, exc. paper	514	Meat cutters and butchers, manufacturing	633
Photoengravers and lithographers	515	Meat wrappers, retail trade	634
Piano and organ tuners and repairmen	516	Metal platers	635
Plasterers	520	Milliners	636
Plasterer apprentices	521	Mine operatives, n.e.c.	640
Plumbers and pipe fitters	522	Mixing operatives	641
Plumber and pipe fitter apprentices	523	Oilers and greasers, exc. auto	642
Power station operators	525	Packers and wrappers, except meat and produce	643
Pressmen and plate printers, printing	530	Painters, manufactured articles	644
Pressman apprentices	531	Photographic process workers	645
Rollers and finishers, metal	533		
Roofers and slaters	534	Precision machine operatives	
Sheetmetal workers and tinsmiths	535	Drill press operatives	650
Sheetmetal apprentices	536	Grinding machine operatives	651
Shipfitters	540	Lathe and milling machine operatives	652
Shoe repairmen	542	Precision machine operatives, n.e.c.	653
Sign painters and letterers	543	Punch and stamping press operatives	656
Stationary engineers	545	Riveters and fasteners	660
Stone cutters and stone carvers	546	Sailors and deckhands	661
Structural metal craftsmen	550	Sawyers	662
Tailors	551	Sewers and stitchers	663
Telephone installers and repairmen	552	Shoemaking machine operatives	664
Telephone linemen and splicers	554	Solderers	665
Tile setters	560	Stationary firemen	666
Tool and die makers	561		
Tool and die maker apprentices	562	Textile operatives	
Upholsterers	563	Carding, lapping, and combing operatives	670
Specified craft apprentices, n.e.c.	571		
Not specified apprentices	572		
Craftsmen and kindred workers, n.e.c.	575		
Former members of the Armed Forces	580		

Knitters, loopers, and toppers	671
Spinners, twisters, and winders	672
Weavers	673
Textile operatives, n.e.c.	674
Welders and flame-cutters	680
Winding operatives, n.e.c.	681
Machine operatives, miscellaneous specified	690
Machine operatives, not specified	692
Miscellaneous operatives	694
Not specified operatives	695
Operatives, except transport--allocated	696

TRANSPORT EQUIPMENT OPERATIVES

Boatmen and canalmen	701
Busdrivers	703
Conductors and motormen, urban rail transit	704
Deliverymen and routemen	705
Fork lift and tow motor operatives	706
Motormen; mine, factory, logging camp, etc.	710
Parking attendants	711
Railroad brakemen	712
Railroad switchmen	713
Taxicab drivers and chauffeurs	714
Truck drivers	715
Transport equipment operatives--allocated	726

LABORERS, EXCEPT FARM

Animal caretakers, exc. farm	740
Carpenters' helpers	750
Construction laborers, exc. carpenters' helpers	751
Fishermen and oystermen	752
Freight and material handlers	753
Garbage collectors	754
Gardeners and groundskeepers, exc. farm	755
Longshoremen and stevedores	760
Lumbermen, raftsmen, and woodchoppers	761
Stockhandlers	762
Teamsters	763
Vehicle washers and equipment cleaners	764
Warehousemen, n.e.c.	770
Miscellaneous laborers	780
Not specified laborers	785
Laborers, except farm--allocated	796

FARMERS AND FARM MANAGERS

Farmers (owners and tenants)	801
Farm managers	802
Farmers and farm managers--allocated	806

FARM LABORERS AND FARM FOREMEN

Farm foremen	821
Farm laborers, wage workers	822
Farm laborers, unpaid family workers	823
Farm service laborers, self-employed	824

Farm laborers and farm foremen--allocated	846
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SERVICE WORKERS, EXC. PRIVATE HOUSEHOLD

Cleaning service workers	
Chambermaids and maids, except private household	901
Cleaners and charwomen	902
Janitors and sextons	903

Food service workers	
Bartenders	910
Busboys	911
Cooks, except private household	912
Dishwashers	913
Food counter and fountain workers	914
Waiters	915
Food service workers, n.e.c., except private household	916

Health service workers	
Dental assistants	921
Health aides, exc. nursing	922
Health trainees	923
Lay midwives	924
Nursing aides, orderlies, and attendants	925
Practical nurses	926

Personal service workers	
Airline stewardesses	931
Attendants, recreation and amusement	932
Attendants, personal service, n.e.c.	933
Baggage porters and bellhops	934
Barbers	935
Boarding and lodginghouse keepers	940
Bootblacks	941
Child care workers, exc. private household	942
Elevator operators	943
Hairdressers and cosmetologists	944
Personal service apprentices	945
Housekeepers, exc. private household	950
School monitors	952
Ushers, recreation and amusement	953
Welfare service aides	954

Protective service workers	
Crossing guards and bridge tenders	960
Firemen, fire protection	961
Guards and watchmen	962
Marshals and constables	963
Policemen and detectives	964
Sheriffs and bailiffs	965
Service workers, exc. private household--allocated	976

PRIVATE HOUSEHOLD WORKERS

Child care workers, private household	980
Cooks, private household	981
Housekeepers, private household	982
Laundresses, private household	983
Maids and servants, private household	984
Private household workers--allocated	986

WORKERS NOT CLASSIFIABLE BY OCCUPATION

Unemployed persons, last worked	
1959 or earlier *	991
Occupation not reported **	995

* Found in experienced civilian labor force universe only.

** Used for Occupation 5-years ago item only.

APPENDIX B-2
Occupation Codes

N.5 Coding for 1983-1992

1980 Census of Population - Occupation Classification
(Numbers in parentheses are the 1980 SOC code equivalent;
"Pt" means part;
"n.e.c" means not elsewhere classified.)

	Census Code		
not used	0-2	Personnel, training, and labor relations specialists (143)	27
MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS	3-199	Purchasing agents and buyers, farm products (1443)	28
Executive, Administrative, and Managerial Occupations	3-37	Buyers, wholesale and retail trade except farm products (1442)	29
Legislators (111)	3	not used	30-32
Chief executives & general administrators, public administration (112)	4	Purchasing agents and buyers, n.e.c. (1449)	33
Administrators and officials, public administration (1132-1139)	5	Business and promotion agents (145)	34
Administrators, protective services (1131)	6	Construction inspectors (1472)	35
Financial managers (122)	7	Inspectors and compliance officers, exc. construction (1473)	36
Personnel and labor relations managers (123)	8	Management related occupations, n.e.c. (149)	37
Purchasing managers (124)	9	not used	38-42
not used	10-12	Professional Specialty Occupations	43-199
Managers, marketing, advertising; and public relations (125)	13	Engineers, Architects, and Surveyors	43-63
Administrators, education and related fields (128)	14	Architects (161)	43
Managers, medicine and health (131)	15	Engineers	44-59
Managers, properties and real estate (1353) [83-92]	16	Aerospace (1622)	44
Postmasters and mail superintendents [92+]	16	Metallurgical and materials (1623)	45
Postmasters and mail superintendents (1344) [83-92]	17	Mining (1624)	46
Managers, food serving and lodging establishments [92+]	17	Petroleum (1625)	47
Funeral directors (pt 1359) [83-92]	18	Chemical (1626)	48
Managers, properties and real estate [92+]	18	Nuclear (1627)	49
Managers and administrators, n.e.c. (121, 126, 127, 132-139, exc. 1344, 1353, pt 1359) [83-92]	19	not used	50-52
Funeral Directors [92+]	19	Civil (1628)	53
Managers, service organizations, n.e.c [92+]	21	Agricultural (1632)	54
Managers and administrators, n.e.c. [92+]	22	Electrical and electronic (1633, 1636)	55
not used [83-92]	20-22	Industrial (1634)	56
not used [92+]	20	Mechanical (1635)	57
Management Related Occupations	23-37	Marine and naval architects (1637)	58
Accountants and auditors (1412)	23	Engineers, n.e.c. (1639)	59
Underwriters (1414)	24	not used	60-62
Other financial officers (1415, 1419)	25	Surveyors and mapping scientists (164)	63
Management analysts (142)	26	Mathematical and Computer Scientists	64-68
		Computer systems analysts and scientists (171)	64
		Operations and systems researchers and analysts (172)	65
		Actuaries (1732)	66
		Statisticians (1733)	67
		Mathematical scientists, n.e.c. (1739)	68
		Natural Scientists	69-83
		Physicists and astronomers (1842, 1843)	69
		not used	70-72
		Chemists, except biochemists (1845)	73
		Atmospheric and space scientists (1846)	74
		Geologists and geodesists (1847)	75
		Physical scientists, n.e.c. (1849)	76
		Agricultural and food scientists (1853)	77
		Biological and life scientists (1854)	78
		Forestry and conservation scientists (1852)	79

not used	80-82	Theology teachers (2245)	147
Medical scientists (1855)	83	Trade and industrial teachers (2246)	148
Health Diagnosing Occupations	84-89	Home economics teachers (2247)	149
Physicians (261)	84	not used	150-152
Dentists (262)	85	Teachers, postsecondary, n.e.c. (2249)	153
Veterinarians (27)	86	Postsecondary teachers, subject not specified	154
Optometrists (281)	87	Teachers, Except Postsecondary	155-159
Podiatrists (283)	88	Teachers, prekindergarten and kindergarten (231)	155
Health diagnosing practitioners, n.e.c. (289)	89	Teachers, elementary school (232)	156
not used	90-94	Teachers, secondary school (233)	157
Health Assessment and Treating Occupations	95-106	Teachers, special education (235)	158
Registered nurses (29)	95	Teachers, n.e.c. (236, 239)	159
Pharmacists (301)	96	not used	160-162
Dietitians (302)	97	Counselors, educational and vocational (24)	163
Therapists	98-105	Librarians, Archivists, and Curators	164-165
Inhalation therapists (3031) [83-92]	98	Librarians (251)	164
Respiratory therapists [92+]	98	Archivists and curators (252)	165
Occupational therapists (3032)	99	Social Scientists and Urban Planners	166-173
not used	100-102	Economists (1912)	166
Physical therapists (3033)	103	Psychologists (1915)	167
Speech therapists (3034)	104	Sociologists (1916)	168
Therapists, n.e.c. (3039)	105	Social scientists, n.e.c. (1913, 1914, 1919)	169
Physicians' assistants (304)	106	not used	170-172
not used	107-112	Urban planners (192)	173
Teachers, Postsecondary	113-154	Social, Recreation, and Religious Workers	174-177
Earth, environmental, and marine science teachers (2212)	113	Social workers (2032)	174
Biological science teachers (2213)	114	Recreation workers (2033)	175
Chemistry teachers (2214)	115	Clergy (2042)	176
Physics teachers (2215)	116	Religious workers, n.e.c. (2049)	177
Natural science teachers, n.e.c. (2216)	117	Lawyers and Judges	178-179
Psychology teachers (2217)	118	Lawyers (211)	178
Economics teachers (2218)	119	Judges (212)	179
not used	120-122	not used	180-182
History teachers (2222)	123	Writers, Artists, Entertainers, and Athletes	183-199
Political science teachers (2223)	124	Authors (321)	183
Sociology teachers (2224)	125	Technical writers (398)	184
Social science teachers, n.e.c. (2225)	126	Designers (322)	185
Engineering teachers (2226)	127	Musicians and composers (323)	186
Mathematical science teachers (2227)	128	Actors and directors (324)	187
Computer science teachers (2228)	129	Painters,sculptors,craft-artists, & artist print-makers (325)	188
not used	130-132	Photographers (326)	189
Medical science teachers (2231)	133	not used	190-192
Health specialties teachers (2232)	134	Dancers (327)	193
Business, commerce, and marketing teachers (2233)	135	Artists, performers, and related workers, n.e.c. (328, 329)	194
Agriculture and forestry teachers (2234)	136	Editors and reporters (331)	195
Art, drama, and music teachers (2235)	137	not used	196
Physical education teachers (2236)	138	Public relations specialists (332)	197
Education teachers (2237)	139	Announcers (333)	198
not used	140-142	Athletes (34)	199
English teachers (2238)	143		
Foreign language teachers (2242)	144	not used	200-202
Law teachers (2243)	145		
Social work teachers (2244)	146		

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS	203-389	Sales workers, motor vehicles and boats (4342, 4344)	263
Technicians and Related Support Occupations	203-235	Sales workers, apparel (4346)	264
Health Technologists and Technicians	203-208	Sales workers, shoes (4351)	265
Clinical laboratory technologists and technicians (362)	203	Sales workers, furniture and home furnishings (4348)	266
Dental hygienists (363)	204	Sales workers; radio, TV, hi-fi, & appliances (4343,4352)	267
Health record technologists and technicians (364)	205	Sales workers, hardware and building supplies (4353)	268
Radiology technicians (365)	206	Sales workers, parts (4367)	269
Licensed practical nurses (366)	207	not used	270-273
Health Technologists and technicians, n.e.c. (369)	208	Sales workers, other commodities (4345, 4347, 4354, 4356, 4359, 4362, 4369)	274
not used	209-212	Sales counter clerks (4363)	275
Technologists and Technicians, Except Health Engineering and Related Technologists and Technicians	213-235	Cashiers (4364)	276
Electrical and electronic technicians (3711)	213	Street and door-to-door sales workers (4366)	277
Industrial engineering technicians (3712)	214	News vendors (4365)	278
Mechanical engineering technicians (3713)	215	not used	279-282
Engineering technicians, n.e.c. (3719)	216	Sales Related Occupations	283-285
Drafting occupations (372)	217	Demonstrators, promoters and models, sales (445)	283
Surveying and mapping technicians (373)	218	Auctioneers (447)	284
not used	219-222	Sales support occupations, n.e.c. (444, 446, 449)	285
Science Technicians	223-225	not used	286-302
Biological technicians (382)	223	Administrative Support Occupations, Including Clerical	303-389
Chemical technicians (3831)	224	Supervisors, Administrative Support Occupations	303-307
Science technicians, n.e.c. (3832, 3833, 384, 389)	225	Supervisors, general office (4511,4513,4514,4516,4519,4529)	303
Technicians; Except Health, Engineering, and Science	226-235	Supervisors, computer equipment operators (4512)	304
Airplane pilots and navigators (825)	226	Supervisors, financial records processing (4521)	305
Air traffic controllers (392)	227	Chief communications operators (4523)	306
Broadcast equipment operators (393)	228	Supervisors; distribution, scheduling, and adjusting clerks (4522, 4524-4528)	307
Computer programmers (3971, 3972)	229	Computer Equipment Operators	308-309
not used	230-232	Computer operators (4612)	308
Tool programmers, numerical control (3974)	233	Peripheral equipment operators (4613)	309
Legal assistants (396)	234	not used	310-312
Technicians, n.e.c. (399)	235	Secretaries, Stenographers and Typists	313-315
not used	236-242	Secretaries (4622)	313
Sales Occupations	243-285	Stenographers (4623)	314
Supervisors and proprietors, sales occupations (40)	243	Typists (4624)	315
not used	244-252	Information Clerks	316-323
Sales Representatives, Finance and Business Services	253-257	Interviewers (4642)	316
Insurance sales occupations (4122)	253	Hotel clerks (4643)	317
Real estate sales occupations (4123)	254	Transportation ticket and reservation agents (4644)	318
Securities & financial services sales occupations (4124)	255	Receptionists (4645)	319
Advertising and related sales occupations (4153)	256	not used	320-322
Sales occupations, other business services (4152)	257	Information clerks, n.e.c. (4649)	323
Sales Representatives, Commodities Except Retail	258-259	not used	324
Sales engineers (421)	258	Records Processing Occupations, Except Financial	325-336
Sales representatives, mining, manufacturing, & wholesale (423, 424)	259	Classified-ad clerks (4662)	325
not used	260-262	Correspondence clerks (4663)	326
Sales Workers, Retail and Personal Services	263-278		

Order clerks (4664)	327	Investigators and adjusters, except insurance (4783)	376
Personnel clerks, except payroll and timekeeping (4692)	328	Eligibility clerks, social welfare (4784)	377
Library clerks (4694)	329	Bill and account collectors (4786)	378
not used	330-334	Miscellaneous Administrative Support Occupations	379-389
File clerks (4696)	335	General office clerks (463)	379
Records clerks (4699)	336	not used	380-382
Financial Records Processing Occupations	337-344	Bank tellers (4791)	383
Bookkeepers, accounting, and auditing clerks (4712)	337	Proofreaders (4792)	384
Payroll and timekeeping clerks (4713)	338	Data-entry keyers (4793)	385
Billing clerks (4715)	339	Statistical clerks (4794)	386
not used	340-342	Teachers aides (4795)	387
Cost and rate clerks (4716)	343	not used	388
Billing, posting, and calculating machine operators (4718)	344	Administrative support occupations, n.e.c. (4787, 4799)	389
Duplicating, Mail and Other Office Machine Operators	345-347	not used	390-402
Duplicating machine operators (4722)	345	SERVICE OCCUPATIONS	403-469
Mail preparing and paper handling machine operators (4723)	346	Private Household Occupations	403-407
office machine operators, n.e.c. (4729)	347	Launderers and ironers (503)	403
Communications Equipment Operators	348-353	Cooks, private household (504)	404
Telephone operators (4732)	348	Housekeepers and butlers (505)	405
Telegraphers (4733) [83-92]	349	Child care workers, private household (506)	406
not used	350-352	Private household cleaners and servants (502, 507, 509)	407
Communications equipment operators, n.e.c. (4739) [83-92]	353	not used	408-412
Communications equipment operators, n.e.c [92+]	353	Protective Service Occupations	413-427
Mail and Message Distributing Occupations	354-357	Supervisors, Protective Service Occupations	413-415
Postal clerks, exc. mail carriers (4742)	354	Supervisors, firefighting & fire prevention occupations (5111)	413
Mail carriers, postal service (4743)	355	Supervisors, police and detectives (5112)	414
Mail clerks, exc. postal service (4744)	356	Supervisors, guards (5113)	415
Messengers (4745)	357	Firefighting and Fire Prevention Occupations	416-417
not used	358	Fire inspection and fire prevention occupations (5122)	416
Material Recording, Scheduling, and Distributing Clerks, n.e.c.	359-374	Firefighting occupations (5123)	417
Dispatchers (4751)	359	Police and Detectives	418-424
not used	360-362	Police and detectives, public service (5132)	418
Production coordinators (4752)	363	not used	419-422
Traffic, shipping, and receiving clerks (4753)	364	Sheriffs, bailiffs, and other law enforcement officers (5134)	423
Stock and inventory clerks (4754)	365	Correctional institution officers (5133)	424
Meter readers (4755)	366	Guards	425-427
not used	367	Crossing guards (5142)	425
Weighers, measurers, and checkers (4756) [83-92]	368	Guards and police, exc. public service (5144)	426
Weighers, measurers, checkers, and samplers [92+]	368	Protective service occupations, n.e.c. (5149)	427
Samplers (4757) [83-92]	369	not used	428-432
not used	370-372	Service Occupations, Except Protective and Household	433-469
Expediters (4758)	373	Food Preparation and Service Occupations	433-444
Material recording, scheduling, & distributing clerks, n.e.c. (4759)	374	Supervisors, food preparation and service occupations (5211)	433
Adjusters and Investigators	375-378	Bartenders (5212)	434
Insurance adjusters, examiners, and investigators (4782)	375	Waiters and waitresses (5213)	435

Cooks, except short order (5214) [83-92]	436	Managers, farms, except horticultural (5522-5524)	475
Cooks [92+]	436	Managers, horticultural specialty farms (5525)	476
Short-order cooks (5215) [83-92]	437	Other Agricultural and Related Occupations	477-489
Food counter, fountain and related occupations (5216)	438	Farm Occupations, Except Managerial	477-484
Kitchen workers, food preparation (5217)	439	Supervisors, farm workers (5611)	477
not used	440-442	not used	478
Waiters'/waitresses' assistants (5218)	443	Farm workers (5612-5617)	479
Miscellaneous food preparation occupations (5219)	444	not used	480-482
Health Service Occupations	445-447	Marine life cultivation workers (5618)	483
Dental assistants (5232)	445	Nursery workers (5619)	484
Health aides, except nursing (5233)	446	Related Agricultural Occupations	485-489
Nursing aides, orderlies, and attendants (5236)	447	Supervisors, related agricultural occupations (5621)	485
Cleaning and Building Service Occupations, except Household	448-455	Groundskeepers and gardeners, except farm (5622)	486
Supervisors, cleaning and building service workers (5241)	448	Animal caretakers, except farm (5624)	487
Maids and housemen (5242,5249)	449	Graders and sorters, agricultural products (5625)	488
not used	450-452	Inspectors, agricultural products (5627)	489
Janitors and cleaners (5244)	453	not used	490-493
Elevator operators (5245)	454	Forestry and Logging Occupations	494-496
Pest control occupations (5246)	455	Supervisors, forestry and logging workers (571)	494
Personal Service Occupations	456-469	Forestry workers, except logging (572)	495
Supervisors, personal service occupations (5251)	456	Timber cutting and logging occupations (573, 579)	496
Barbers (5252)	457	Fishers, Hunters, and Trappers	497-499
Hairdressers and cosmetologists (5253)	458	Captains and other officers, fishing vessels (pt 8241)	497
Attendants, amusement and recreation facilities (5254)	459	Fishers (583)	498
Guides [92+]	461	Hunters and trappers (584)	499
Ushers [92+]	462	not used	500-502
not used [92+]	460	PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	503-699
not used [83-92]	460-462	Mechanics and Repairers	503-549
Guides (5255) [83-92]	463	Supervisors, mechanics and repairers (60)	503
Public transportation attendants [92+]	463	not used	504
Ushers (5256) [83-92]	464	Mechanics and Repairers, Except Supervisors	505-549
Baggage porters and bellhops [92+]	464	Vehicle and Mobile Equipment Mechanics and Repairers	505-517
Public transportation attendants (5257) [83-92]	465	Automobile mechanics (pt 6111)	505
Welfare service aides [92+]	465	Automobile mechanic apprentices (pt 6111)	506
Baggage porters and bellhops (5262) [83-92]	466	Bus, truck, and stationary engine mechanics (6112)	507
Family child care providers [92+]	466	Aircraft engine mechanics (6113)	508
Welfare service aides (5263) [83-92]	467	Small engine repairers (6114)	509
Early childhood teacher's assistants [92+]	467	not used	510-513
Child care workers, except private household (5264) [83-92]	468	Automobile body and related repairers (6115)	514
Child care workers, n.e.c [92+]	468	Aircraft mechanics, exc. engine (6116)	515
Personal service occupations, n.e.c. (5258, 5269)	469	Heavy equipment mechanics (6117)	516
not used	470-472	Farm equipment mechanics (6118)	517
FARMING, FORESTRY, AND FISHING OCCUPATIONS	473-499	Industrial machinery repairers (613)	518
Farm Operators and Managers	473-476	Machinery maintenance occupations (614)	519
Farmers, except horticultural (5512-5514)	473	not used	520-522
Horticultural specialty farmers (5515)	474	Electrical and Electronic Equipment Repairers	523-533
		Electronic repairers, communications &	

industrial equipment (6151, 6153, 6155)	523	Electricians (pt 6432)	575
not used	524	Electrician apprentices (pt 6432)	576
Data processing equipment repairers (6154)	525	Electrical power installers and repairers (6433)	577
Household appliance and power tool		not used	578
repairers (6156)	526	Painters, construction and maintenance (6442)	579
Telephone line installers and repairers (6157)	527	not used	580-582
not used	528	Paperhangers (6443)	583
Telephone installers and repairers (6158)	529	Plasterers (6444)	584
not used	530-532	Plumbers, pipefitters, and steamfitters (pt 645)	585
Miscellaneous electrical and electronic		not used	586
equipment repairers (6152, 6159)	533	Plumber, pipefitter, and steamfitter	
Heating, air conditioning, and refrigeration		apprentices (pt 645)	587
mechanics (616)	534	Concrete and terrazzo finishers (6463)	588
Miscellaneous Mechanics and Repairers	535-549	Glaziers (6464)	589
Camera, watch, & musical instrument		not used	590-592
repairers (6171, 6172)	535	Insulation workers (6465)	593
Locksmiths and safe repairers (6173)	536	Paving, surfacing, and tamping equipment	
not used	537	operators (6466)	594
Office machine repairers (6174)	538	Roofers (6468)	595
Mechanical controls and valve repairers (6175)	539	Sheetmetal duct installers (6472)	596
not used	540-542	Structural metal workers (6473)	597
Elevator installers and repairers (6176)	543	Drillers, earth (6474)	598
Millwrights (6178)	544	Construction trades, n.e.c.	
not used	545-546	(6467, 6475, 6476, 6479)	599
Specified mechanics and repairers,		not used	600-612
n.e.c. (6177, 6179)	547	Extractive Occupations	613-617
not used	548	Supervisors, extractive occupations (632)	613
Not specified mechanics and repairers	549	Drillers, oil well (652)	614
not used	550-552	Explosives workers (653)	615
Construction Trades	553-599	Mining machine operators (654)	616
Supervisors, construction occupations	553-558	Mining occupations, n.e.c. (656)	617
Supervisors; brickmasons, stonemasons,		not used [83-92]	618-632
and tile setters (6312)	553	not used [92+]	618-627,
Supervisors, carpenters and related			629-632
workers (6313)	554	Precision Production Occupations [83-92]	633-699
Supervisors, electricians & power		Precision Production Occupations [92+]	628,
transmission installers (6134)	555		633-699
Supervisors; painters, paperhangers, and		Supervisors, production occupations [92+]	628
plasterers (6315)	556	Supervisors, production occupations	
Supervisors; plumbers, pipefitters, and		(67, 71) [83-92]	633
steamfitters (6316)	557	Precision Metal Working Occupations	634-655
Supervisors, n.e.c. (6311, 6318)	558	Tool and die makers (pt 6811)	634
not used	559-562	Tool and die maker apprentices (pt 6811)	635
Construction Trades, Except Supervisors	563-599	Precision assemblers, metal (6812)	636
Brickmasons and stonemasons (pt 6412, pt 6413)	563	Machinists (pt 6813)	637
Brickmason and stonemason apprentices		not used	638
(pt 6412, pt 6413)	564	Machinist apprentices (pt 6813)	639
Tile setters, hard and soft (6414, pt 6462)	565	not used	640-642
Carpet installers (pt 6462)	566	Boilermakers (6814)	643
Carpenters (pt 6422)	567	Precision grinders, filers, and tool	
not used	568	sharpeners (6816)	644
Carpenter apprentices (pt 6422)	569	Patternmakers and model makers, metal (6817)	645
not used	570-572	Lay-out workers (6821)	646
Drywall installers (6424)	573	Precious stones and metals workers	
not used	574	(jewelers) (6822, 6866)	647

not used	648	Machine operators and Tenders, except Precision	703-779
Engravers, metal (6823)	649	Metalworking and Plastic Working Machine	
not used	650-652	Operators	703-715
Sheet metal workers (pt 6824)	653	Lathe and turning machine set-up	
Sheet metal worker apprentices (pt 6824)	654	operators (7312)	703
Miscellaneous precision metal workers (6829)	655	Lathe and turning machine operators (7512)	704
Precision Woodworking Occupations	656-659	Milling and planing machine	
Patternmakers and model makers, wood (6831)	656	operators (7313, 7513)	705
Cabinet makers and bench carpenters (6832)	657	Punching and stamping press machine operators	706
Furniture and wood finishers (6835)	658	(7314, 7317, 7514, 7517)	
Miscellaneous precision woodworkers (6839)	659	Rolling machine operators (7316, 7516)	707
not used	660-665	Drilling and boring machine	
Precision Textile, Apparel and Furnishings		operators (7313, 7518)	708
Machine Workers	666-674	Grinding, abrading, buffing, & polishing	
Dressmakers (pt 6852, pt 7752)	666	machine operators (7322, 7324, 7522)	709
Tailors (pt 6852)	667	not used	710-712
Upholsterers (6853)	668	Forging machine operators (7319, 7519)	713
Shoe repairers (6854)	669	Numerical control machine operators (7326)	714
not used	670-672	Miscellaneous metal, plastic, stone, & glass	
Apparel and fabric patternmakers (6856) [83-92]	673	working machine operators (7329, 7529)	715
Miscellaneous precision apparel & fabric workers	674	not used	716
(6859, pt 7752)		Fabricating machine operators, n.e.c. (7339, 7539)	717
		not used	718
Precision Workers, Assorted Materials	675-684	Metal and Plastic Processing Machine Operators	719-725
Hand molders and shapers, except jewelers (6861)	675	Molding and casting machine operators	
Patternmakers, lay-out workers, and cutters (6862)	676	(7315,7342,7515,7542)	719
Optical goods workers (6864, pt 7477, pt 7677)	677	not used	720-722
Dental laboratory and medical appliance		Metal plating machine operators (7343, 7543)	723
technicians (6865)	678	Heat treating equipment operators (7344, 7544)	724
Bookbinders (6844)	679	Miscellaneous metal & plastic processing	
not used	680-682	machine operators (7349, 7549)	725
Electrical and electronic equipment		Woodworking Machine Operators	726-733
assemblers (6867)	683	Wood lathe, routing, & planing machine	
Miscellaneous precision workers, n.e.c. (6869)	684	operators (7431, 7432, 7631, 7632)	726
not used	685	Sawing machine operators (7433, 7633)	727
Precision Food Production Occupations	686-688	Shaping and joining machine operators	
Butchers and meat cutters (6871)	686	(7435, 7635)	728
Bakers (6872)	687	Nail and tacking machine operators (7636)	729
Food batchmakers (6873, 6879)	688	not used	730-732
Precision Inspectors, Testers, and Related Workers	689-693	Miscellaneous woodworking machine operators	733
Inspectors, testers, and graders (6881, 828)	689	(7434, 7439, 7634, 7639)	
not used	690-692	Printing Machine Operators	734-737
Adjusters and calibrators (6882)	693	Printing machine operators (7443, 7643) [83-92]	734
Plant and System Operators	694-699	Printing press operators [92+]	734
Water and sewage treatment plant operators (691)	694	Photoengravers and lithographers	
Power plant operators (pt 693)	695	(6842, 7444, 7644)	735
Stationary engineers (pt 693, 7668)	696	Typesetters and compositors (6841,7642)	736
not used	697-698	Miscellaneous printing machine operators	
Miscellaneous plant and system operators	699	(6849, 7449, 7649)	737
(692, 694, 695, 696)		Textile, Apparel, and Furnishings Machine	
		Operators	738-749
not used	700-702	Winding and twisting machine	
		operators (7451, 7651)	738
OPERATORS, FABRICATORS, AND LABORERS	703-889	Knitting, looping, taping, & weaving	
Machine Operators, Assemblers, and Inspectors	703-799	machine operators (7452,7652)	739

not used	740-742	Hand painters, coating, and decorating occupations (7756)	789
Textile cutting machine operators (7654)	743	not used	790-792
Textile sewing machine operators (7655)	744	Hand engraving and printing occupations (7757)	793
Shoe machine operators (7656)	745	Hand engraving and polishing occupations (7758) [83-92]	794
not used	746	Miscellaneous hand working occupations (7759)	795
Pressing machine operators (7657)	747	Production Inspectors, Testers, Samplers, and Weighers	796-799
Laundering and dry cleaning machine operators (6855, 7658)	748	Production inspectors, checkers, and examiners (782, 787)	796
Miscellaneous textile machine operators (7459, 7659)	749	Production testers (783)	797
not used	750-752	Production samplers and weighers (784)	798
Machine Operators	753-779	Graders, and sorters, exc. agricultural (785)	799
Cementing and gluing machine operators (7661)	753	not used	800-802
Packaging and filling operators (7462, 7662)	754	Transportation and Material Moving Occupations	803-859
Extruding and forming machine operators (7463, 7663)	755	Motor Vehicle Operators	803-814
Mixing and blending machine operators (7664)	756	Supervisors, motor vehicle operators (8111)	803
Separating, filtering, and clarifying machine operators (7476, 7666, 7676)	757	Truck drivers [92+]	804
Compressing and compacting machine operators (7467, 7667)	758	Truck drivers, heavy (8212, 8213) [83-92]	804
Painting and paint spraying machine operators (7669)	759	Truck drivers, light (8214) [83-92]	805
not used	760-762	Driver-sales workers (8218)	806
Roasting and baking machine operators, food (7472, 7672)	763	not used	807
Washing, cleaning, and pickling machine operators (7673)	764	Bus drivers (8215)	808
Folding machine operators (7474, 7674)	765	Taxi cab drivers and chauffeurs (8216)	809
Furnace, kiln, and oven operators, exc. food (7675)	766	not used	810-812
not used	767	Parking lot attendants (874)	813
Crushing and grinding machine operators (pt 7477, pt 7677)	768	Motor transportation occupations, n.e.c. (8219)	814
Slicing and cutting machine operators (7478, 7678)	769	not used	815-822
not used	770-772	Transportation Occupations, Except Motor Vehicles	823-834
Motion picture projectionists (pt 7479)	773	Rail Transportation Occupations	823-826
Photographic process machine operators (6863, 6868, 7671)	774	Railroad conductors and yardmasters (8113)	823
not used	775-776	Locomotive operating occupations (8232)	824
Miscellaneous machine operators, n.e.c. (pt 7479, 7665, 7679)	777	Railroad brake, signal, and switch operators (8233)	825
not used	778	Rail vehicle operators, n.e.c. (8239)	826
Machine operators, not specified	779	not used	827
not used	780-782	Water Transportation Occupations	828-834
Fabricators, Assemblers, and Hand Working Occupations	783-795	Ship captains & mates, except fishing boats (pt 8241, 8242)	828
Welders and cutters (7332, 7532, 7714)	783	Sailors and deckhands (8243)	829
Solderers and brazers (7333, 7533, 7717)	784	not used	830-832
Assemblers (772, 774)	785	Marine engineers (8244)	833
Hand cutting and trimming occupations (7753)	786	Bridge, lock, and lighthouse tenders (8245)	834
Hand molding, casting, and forming occupations (7754, 7755)	787	not used	835-842
not used	788	Material Moving Equipment Operators	843-859
		Supervisors, material moving equipment operators (812)	843
		Operating engineers (8312)	844
		Longshore equipment operators (8313)	845
		not used	846-847
		Hoist and winch operators (8314)	848
		Crane and tower operators (8315)	849
		not used	850-852

Excavating and loading machine operators (8316)	853	unemployed and who last worked in	
not used	854	1974 or earlier.	909
Grader, dozer, and scraper operators (8317)	855		
Industrial truck and tractor equipment		not used	910+
operators (8318)	856	Last job was in Armed Forces (1992)	991
not used	857-858		
Miscellaneous material moving equipment			
operators (8319)	859		
not used	860-862		
Handlers, Equipment Cleaners, Helpers,			
and Laborers	863-889		
Supervisors, handlers, equipment cleaners, and			
laborers, n.e.c. (85) [83-92]	863		
Supervisors, handlers, equipment cleaners, and			
laborers [92+]	864		
Helpers, mechanics and repairers (863) [83-92]	864		
Helpers, mechanics and repairers [92+]	865		
Helpers, Construction and Extractive Occupations	865-867		
Helpers, construction trades			
(8641-8645, 8648) [83-92]	865		
Helpers, surveyor (8646) [83-92]	866		
Helpers, construction trades [92+]	866		
Helpers, extractive occupations (865) [83-92]	867		
Helpers, surveyor [92+]	867		
Helpers, extractive occupations [92+]	868		
not used [83-92]	868		
Construction laborers (871)	869		
not used	870-872		
Production helpers (861, 862) [83-92]	873		
Production helpers [92+]	874		
not used [83-92]	874		
Freight, Stock, and Material Handlers	875-883		
Garbage collectors (8722)	875		
Stevedores (8723)	876		
Stock handlers and baggers (8724)	877		
Machine feeders and offbearers (8725)	878		
not used	879-882		
Freight, stocks, and material handlers,			
n.e.c. (8726)	883		
not used	884		
Garage and service station related occupation (873)	885		
not used	886		
Vehicle washers and equipment cleaners.(875)	887		
Hand packers and packagers (8761)	888		
Laborers, except construction (8769)	889		
not used	890-904		
Assigned to persons whose labor force status is			
unemployed and whose last job was			
Armed Forces	905		
not used	906-908		
Assigned to persons whose labor force status is			

APPENDIX C

DETAILED WEEKS UNEMPLOYED
(for variable 81)

Under 1 week	01
1 week	02
2 weeks	03
3 weeks	04
4 weeks	05
5 weeks	06
6 weeks	07
7-10 weeks	08
11-14 weeks	09
15-18 weeks	10
19-22 weeks	11
23-26 weeks	12
27-34 weeks	13
35-42 weeks	14
43-50 weeks	15
51-52 weeks	16
Over 52 weeks	17
Not unemployed	99

APPENDIX D

OCCUPATION OF LONGEST JOB LAST YEAR

Professional Technical and Kindred Workers:	
Self-employed:	
Medical and Other Health Workers	01
Other Self-employee	02
Salaried:	
Engineers, Technical	03
Medical and Other Health Workers	04
Teachers, Primary and Secondary	05
Other Salaried Workers	06
Farmers and Farm Managers	07
Managers, Officials and Proprietors except Farm:	
Self-employed:	
Retail Trade	08
Other Self-employed	09
Salaried	10
Clerical and Kindred Workers:	
Secretaries, Stenographers and Typists	11
Other Clerical and Kindred Workers	12
Sales Workers:	
In Retail Trade	13
Other Sales Workers	14
Craftsmen, Foremen and Kindred Workers:	
Foremen	15
Craftsmen:	
Construction	16
Other Craftsmen	17
Operatives and Kindred Workers:	
In Durable Goods Manufacturing	18
In Nondurable Goods Manufacturing	19
Other Operatives and Kindred Workers	20
Private Household Workers	21
Service Workers except Private Household:	
Waiters, Cooks and Bartenders	22
Other Service Workers	23
Farm Laborers and Foremen	24
Laborers except Farm and Mine	25
Not Available	99

APPENDIX E
Actual SMSA Codes

	64-72
not listed below	00
New York	01
Los Angeles - Long Beach	02
Chicago	03
Philadelphia	04
Detroit	05
San Francisco - Oakland	06
[San Francisco only in 1962-67]	
Boston	07
Pittsburgh	08
St. Louis	09
Washington, D. C.	10
Cleveland	11
Baltimore	12
Newark [1968-72 only]	13
Minneapolis - St. Paul	14
Buffalo	15
Houston	16
Milwaukee [1968-72]	17
Patterson - Clifton - Passaic [1968-72]	18
Dallas [1968-72]	19

	73-76
not listed below	00
New York City	01
Los Angeles - Long Beach	02
Chicago	03
Philadelphia	04
Detroit	05
San Francisco - Oakland	06
Washington, D. C.	07
Boston	08
Nassau - Suffolk, New York	09
Pittsburgh	10
St. Louis	11
Baltimore	12
Cleveland	13
Houston	14
Newark	15
Minneapolis - St. Paul	16
Dallas	17
Seattle - Everett	18
Anaheim - Santa Anna - Carden Grove	19
Milwaukee	20
Atlanta	21
Cincinnati	22
Patterson - Clifton - Passaic	23
San Diego	24
Buffalo	25
Miami	26
Kansas City	27
Denver	28
San Bernardino - Riverside - Ontario	29
Indianapolis	30
San Jose	31
New Orleans	32
Tampa - St. Petersburg	33
Portland	34
Phoenix	35

	77-82
Not listed below	00
New York City	01
Los Angeles	02
Chicago	03
Philadelphia	04
Detroit	05
San Francisco - Oakland	06
Washington, D. C.	07
Boston	08
Nassau - Suffolk, New York	09
Pittsburgh	10
St. Louis	11
Baltimore	12
Cleveland	13

Houston	14
Newark	15
Minneapolis - St. Paul	16
Dallas	17
Seattle - Everett	18
Anaheim - Santa Anna - Garden Grove	19
Milwaukee	20
Atlanta	21
Cincinnati	22
Patterson - Clifton - Passaic	23
San Diego	24
Buffalo	25
Miami	26
Kansas City	27
Denver	28
San Bernardino - Riverside - Ontario	29
Indianapolis	30
San Jose	31
New Orleans	32
Tampa - St. Petersburg	33
Portland	34
Columbus, OH	36
Rochester	38
Sacramento	42
Fort Worth	44
Birmingham, ALA	45
Albany - Schenectady - Troy	46
Norfolk - Portsmouth, VA	48
Akron, OH	49
Gary - Hammond - East Chicago	53
Greensboro - Winston - Salem - High Point	57

APPENDIX F
Common Coding for Selected Cities

	64-67
not listed below	00
New York City	01
Los Angeles	02
Chicago	03
Philadelphia	04
Detroit	05
San Francisco	06
Boston	07
Pittsburgh	08
St. Louis	09
Washington, D. C.	10
Cleveland	11
Baltimore	12
Newark [1968-72 only]	13
Minneapolis - St. Paul	14
Buffalo	15
Houston	16
Milwaukee [1968-72]	17
Patterson - Clifton - Passaic [1968-72]	18
Dallas [1968-72]	19

APPENDIX G
Actual State Codes

68-72

Connecticut	11
Maine	19
Massachusetts	19
New Hampshire	19
Rhode Island	19
Vermont	19
New York	21
New Jersey	22
Pennsylvania	23
Ohio	31
Indiana	32
Illinois	33
Michigan	39
Wisconsin	39
Iowa	41
Minnesota	41
Missouri	43
North Dakota	49
Nebraska	49
Kansas	49
South Dakota	49
Washington, D. C.	51
Maryland	52
West Virginia	53
Georgia	54
Florida	55
North Carolina	57
South Carolina	57
Delaware	59
Virginia	59
Kentucky	61
Tennessee	62
Alabama	69
Mississippi	69
Louisiana	71
Texas	72
Arkansas	79
Oklahoma	79
Arizona	81
Colorado	81
New Mexico	81
Idaho	89
Montana	89
Nevada	89
Utah	89
Wyoming	89
Oregon	91
California	92
Alaska	99
Hawaii	99
Washington	99

73-76

Massachusetts	14
Connecticut	16
Maine	19
New Hampshire	19
Rhode Island	19
Vermont	19
New York	21
New Jersey	22
Pennsylvania	23
Ohio	31
Indiana	32
Illinois	33
Michigan	39
Wisconsin	39
Minnesota	49
Iowa	49
North Dakota	49
South Dakota	49
Nebraska	49
Kansas	49
Missouri	49
Washington, D. C.	53

North Carolina	56
Delaware	57
Maryland	57
West Virginia	57
Virginia	57
South Carolina	58
Georgia	58
Florida	59
Kentucky	67
Tennessee	67
Alabama	69
Mississippi	69
Texas	72
Arkansas	79
Louisiana	79
Oklahoma	79
Arizona	89
Colorado	89
Idaho	89
Montana	89
Nevada	89
New Mexico	89
Utah	89
Wyoming	89
California	92
Alaska	99
Hawaii	99
Oregon	99
Washington	99

64-67, 77-82

Missing Data [1964-67 only]	00
Maine	11
New Hampshire	12
Vermont	13
Massachusetts	14
Rhode Island	15
Connecticut	16
New York	21
New Jersey	22
Pennsylvania	23
Ohio	31
Indiana	32
Illinois	33
Michigan	34
Wisconsin	35
Minnesota	41
Iowa	42
Missouri	43
North Dakota	44
South Dakota	45
Nebraska	46
Kansas	47
Delaware	51
Maryland	52
Washington, D. C.	53
Virginia	54
West Virginia	55
North Carolina	56
South Carolina	57
Georgia	58
Florida	59
Kentucky	61
Tennessee	62
Alabama	63
Mississippi	64
Arkansas	71
Louisiana	72
Oklahoma	73
Texas	74
Montana	81
Idaho	82
Wyoming	83
Colorado	84
New Mexico	85
Arizona	86
Utah	87
Nevada	88
Washington	91
Oregon	92

California
Alaska
Hawaii

93
94
95

APPENDIX H
Common State Codes

	89-92
invalid code [1964-67, 1972]	00
Connecticut	16
Maine	19
Massachusetts	19
New Hampshire	19
Rhode Island	19
Vermont	19
New York	21
New Jersey	22
Pennsylvania	23
Ohio	31
Indiana	32
Illinois	33
Michigan	39
Wisconsin	39
Iowa	49
Kansas	49
Minnesota	49
Missouri	49
Nebraska	49
North Dakota	49
South Dakota	49
Washington, D. C.	53
Delaware	57
Maryland	57
West Virginia	57
Virginia	57
Georgia	58
North Carolina	58
South Carolina	58
Florida	59
Kentucky	67
Tennessee	67
Alabama	69
Mississippi	69
Texas	72
Arkansas	79
Louisiana	79
Oklahoma	79
Arizona	89
Colorado	89
Idaho	89
Montana	89
Nevada	89
New Mexico	89
Utah	89
Wyoming	89
California	92
Alaska	99
Hawaii	99
Oregon	99
Washington	99

APPENDIX I
Household Recode-1

	64-88	89-92
head of primary family householder	01	01
wife of primary family head spouse of householder	02	02
child, under 18, head of subfamily	03	03
child, under 18, not in a subfamily	04	04
child, under 18, ever-married, head of subfamily	05	05
child, under 18, ever-married, wife of subfamily	06	06
child, under 18, ever-married, spouse of subfamily	07	07
child, under 18, ever-married, not in a subfamily	08	08
18+, never-married, head of subfamily	09	09
18+, never-married, not in a subfamily	10	10
18+, ever-married, head of a subfamily	11	11
18+, ever-married, wife of a subfamily	12	12
18+, ever-married, spouse of a subfamily	13	13
18+, ever-married, not in a subfamily		
grandchild, under 18, never-married [1968+ only]		
stepchild, under 18, never-married, head of subfamily		13
stepchild, under 18, never-married, not in a subfamily		14
stepchild, under 18, ever-married, head of a subfamily		15
stepchild, under 18, ever-married, spouse of a subfamily		16
stepchild, under 18, ever-married, not in a subfamily		17
stepchild, 18+, never-married, head of a subfamily		18
stepchild, 18+, never-married, not in a subfamily		19
stepchild, 18+, ever-married, head of a subfamily		20
stepchild, 18+, ever-married, spouse of a subfamily		21
stepchild, 18+, ever-married, not in a subfamily		22
grandchild, under 18, never-married, head of a subfamily		23
grandchild, under 18, never-married, child of a subfamily		24
grandchild, under 18, never-married, not in a subfamily		25
grandchild, under 18, ever-married, head of a subfamily		26
grandchild, under 18, ever-married, spouse of a subfamily		27
not used		28
grandchild, under 18, ever-married, not in a subfamily		29
grandchild, 18+, never-married, head of a subfamily		30
grandchild, 18+, never-married, not in a subfamily		31
grandchild, 18+, ever-married, head of a subfamily		32
grandchild, 18+, ever-married, spouse of a subfamily		33
grandchild, 18+, ever-married, not in a subfamily		34
other relative, under 18, head of subfamily	14	35
other relative, under 18, NM, child of subfamily	15	36
other relative, under 18, not in subfamily	16	37
other relative, under 18, ever-married, head of subfamily	17	38
other relative, under 18, ever-married,	18	

wife of subfamily		
other relative, under 18, ever-married, spouse of subfamily		39
other relative, under 18, ever-married, not in subfamily	19	40
other relative, 18+, never-married, head of subfamily	20	41
other relative, 18+, never-married, not in subfamily	21	42
other relative, 18+, ever-married, head of subfamily	22	43
other relative, 18+, ever-married, wife of subfamily	23	
other relative, 18+, ever-married, spouse of subfamily		44
other relative, 18+, ever-married, not in subfamily.	24	45
in secondary family, head of secondary family	25	46
in secondary family, wife of secondary family	26	
in secondary family, spouse of secondary family		47
head, child under 18, never-married, secondary family	27	48
under 18, never-married, other relative, secondary family	28	
under 18, ever-married, other relative, secondary family	29	
18+, never-married, secondary family	30	
18+, ever-married, other relative of secondary family	31	
primary individual	32	49
secondary individual	33	50
group quarters, secondary individuals	34	51