DOCUMENT RESUME

ED 283 486 HE 020 510

TITLE Occupational and Educational Consequences of a

Baccalaureate Degree.

INSTITUTION Center for Statistics (OERI/ED), Washington, DC.

REPORT NO CS-87-325

PUB DATE [87] NOTE 43p.

AVAILABLE FROM Superintendent of Documents, U.S. Government Printing

Office, Washington, DC 20402.

PUB TYPE Reports - Research/Technical (143)

EDRS PRICE MF01/PC02 Plus Postage.

DESCRIPTORS *Bachelors Degrees; College Attendance; *College

Graduates; *Education_Work Relationship; *Employment Experience; Graduate Study; Higher Education; *Majors (Students); *Occupations; Professional Education;

Salaries; Unemployment

ABSTRACT

Results of the 1985 Recent College Graduates survey, which investigated the employment status, current occupation, salary, and continuation in school of bachelor's degree recipients, are presented. The study group was a nationally representative sample of about 16,000 bachelor's degree recipients. One year after graduation, 64% of arts and sciences majors reported that their job was related to their major, compared to 88% of graduates of professional programs. While 43% of arts and sciences majors felt a degree was not necessary to obtain their job, the major exception was for majors in mathematics, computer science, or physical sciences. Graduates of business and health professions programs were less likely to be enrolled in school l year after completing an undergraduate degree, while graduates in biology, social sciences, and psychology were more likely to be enrolled in school. Mathematics, computer science, and physical science graduates earned as much as, or more than, majors in such professional fields as the health professions, business, or public affairs/social services. Information about the survey and data reliability are included, along with a list of the major fields of study and occupations and taxonomy codes. (SW)



U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION
CENTER (ERIC)

- This document has been reproduced as received from the person or organization originating it
- Minor changes have been made to improve reproduction quality
- Points of view or opinions stated in this document do not necessarily represent official OERI position or policy

Occupational and Educational Consequences of a Baccalaureate Degree

Office of Educational Research and Improvement U.S. Department of Education



Center for Education Statistics

Occupational and Educational Consequences of a Baccalaureate Degree

By: Roslyn A. Korb

U.S. Department of Education William J. Bennett Secretary

Office of Educational Research and Improvement Chester E. Finn, Jr.

Assistant Secretary

Genter for Education Statistics Emerson J. Elliott Director

Information Services
Edwin S. Darrell
Director

Center for Education Statistics

"The purpose of the Center shall be to collect and disseminate statistics and other data related to education in the United States and in other nations. The Center shall ... collect, collate, and from time to time: report full and complete statistics on the conditions of education in the United States; conduct and publish reports on specialized analyses of the meaning and significance of such statistics; ... and review and report on education activities in foreign countries,"—Section 406 (b) of the General Education Provisions Act, as amended (20 U.S.C. 1221e-1).

March 1987



FOREWORD

This report on the occupational and educational consequences of a baccalaureate degree is one of a series of reports that will result from the 1985 Survey of Recent College Graduates. A report highlighting the results of the study has already been published and two additional reports, one on newly qualified teachers and the other on women and minority graduates, will be issued shortly.

Graduates of our Nation's colleges and universities are an increasingly important segment of our society. They represent a large proportion of the pool of trained manpower at a critical transition period, either entering the labor market or enrolling in graduate and first-professional studies. Determining these transitions from school to work or from undergraduate to postbaccalaureate education and assessing the relative ease with which these transitions are made is a major activity of the Center for Education Statistics. Individuals as diverse as labor market analysts and students participating, or wishing to participate, in higher education need this information to make rational decisions.

In preparing and publishing this report, we recognize that it raises almost as many questions as it answers with respect to occupational and educational outcomes. In future studies of recent college graduates, we hope to be able to address some of these additional questions by examining the process of higher education as well as the outcomes:

Samuel S. Peng Director, Postsecondary Education Statistics Division



1,



ACKNOWLEDGEMENTS

The author is truly indebted to Samuel Barbette, who did all of the data preparation and data processing for this report. The author also appreciates the critical technical reviews provided by Chuck Cowan of CES, the technical support contributed by Marie van Melis-Wright and William Freund, and the clerical support of Josie Brown and David Barnhart.



Table of Contents

	Page
preword	. iii
knowledgements	. iv
ummary	
troduction	; Ž
mployment	: 2
nroliment ::::::::::::::::::::::::::::::::::::	. 2
compations, by major field of study	. 5

Tables

			Page
Table	1:	Labor force status, salaries, enrollment rates and job characteristics of 1983-84 baccalaureate degree recipients 1 year after graduation, by major field of study	4
Tāblē	2	Rankings of average annual salaries, by major field of study	; 4
Table	3	Enrollment rates of non-working bachelor degree's recipients, by selected major field of study	Ž
Table	4	Activities of 1983-1984 business and management graduates:	 5
Table	5;	Major occupations of 1983-1984 business and management graduates, by occupation and job characteristics: 1985	5
		Activities of 1983-1984 education graduates: 1985	6
Table	7	Major occupations of 1983-1984 education graduates, by occupation and job characteristics: 1985	6
Table	ē:	Activities of 1983-84 engineering graduates: 1985	7
Table	9,	Major occupations of 1983-1984 engineering graduates, by occupation and job characteristics: 1985	7
Table	Īō	Activities of 1983-84 health professions graduate: 1985	8
lable	11:	Major occupations of 1983-1984 health professions graduates, by occupation and job characteristics: 1985	ë 8
Γable	12	Activities of 1983-84 public affairs/social services graduates: 1985	9



Tables (continued)

			Page
Table	13:-	- Major occupations of 1983-1984 public affairs/social services graduates, by occupation and job characteristics: 1985	<u></u>
Table	ī4. -	- Activities of 1983-84 biological sciences graduates: 1985	10
Tab1e	15	- Major occupations of 1983-1984 biological sciences graduates, by occupation and job characteristics: 1985	10
Table	16	- Activities of 1983-84 mathematics, computer sciences, and physical sciences graduates: 1985	ii
Table	17	- Major occupations of 1983-1984 mathematics, computer science, and physical science majors, by occupation and job characteristics: 1985	11
Table	18:-	- Activities of 1983-84 social sciences graduates: 1985	12
		- Major occupation of 1983-84 social sciences graduates, by occupation and job characteristics: 1985	ī. 12
Tāblē	20	- Activities of 1983-84 humanities graduates: 1985	13
Täble	21:	- Major occupations of 1983-1984 humanities graduates, by occupation and job characteristics: 1985	<u>i.3</u>
Table	22	Activities of 1983-84 psychology graduates: 1985	14
Table	23	Major occupations of 1983-1984 psychology graduates, by occupation and job characteristics: 1985	14
		Appendix tables	
Table		Coefficients of variation for estimates in table 1labor force status, salaries, enrollment rates, and job characteristics of 1983-84 baccalaureate degree recipients 1 year after graduation, by major field of study	19
rable :	В	Major field of study used in this report, specific programs included in each major field, and HEGIS classification codes	 23



Summary

Data from the Recent College Graduates survey of 1985 clearly demonstrate the effect that an undergraduate's major field of study has on both employment and enrollment in school 1 year after completing a baccalaureate degree. Those that completed a degree in a professional field or fields that are directly tied to certain occupations tend to find jobs in their field (88 percent of graduates of professional programs reported their job 1 year after graduation was related to their field of study). A large proportion (67 percent) of graduates of professional programs also felt that their job had at least some career potential. Majors in traditional arts and sciences fields that have less of a relationship to specific occupations are less likely than majors in professional fields to find a job related to their field of study (64 percent of arts and sciences program completers reported their job 1 year after graduation was related to their major field). Moreover, among arts and sciences majors, 43 percent felt that a degree was not necessary to obtain their job. The major exception to these findings was for individuals who majored in mathematics, computer science or the physical sciences -- 86 percent of these graduates felt their job was related to their major field, 62 percent felt their job had some career potential, and only 22 percent felt that a degree was not required to obtain their job.

Salaries also tended to be differentiated by field of study - but the relationship of salary to professional or arts and sciences majors was less apparent. Mathematics, computer science and physical science graduates made as much, or more (an average of \$21,600 per year); than majors in such professional fields as the health professions (\$21,100 per year), business (\$19,000 per year); education (\$15,300 per year), or public affairs/social services (\$15,000 per year). On the other hand, education and public affairs/social services graduates made less; on the average, than graduates in all other major fields except humanities (\$14,400 per year).

A graduate's enrollment in school 1 year after completing an undergraduate degree was also somewhat related to completion of a professional or arts and sciences program. Graduates of business and health professions programs were less likely to be enrolled (12 percent and 17 percent enrolled, respectively), and graduates in biology (81 percent enrolled), the social sciences (35 percent enrolled), and psychology (34 percent enrolled) were more likely to be enrolled in school soon after graduation than the typical degree completer (23 percent enrolled).

These findings from the 1985 Recent College Graduates survey (RCG) were based on a nationally representative sample of about 16,000 bachelor's degree recipients from 404 colleges and universities. A questionnaire was mailed to graduates 1 year after completion of a degree, requesting information about employment status, current occupation, salary, and whether or not they continued in school. More details about the survey and reliability of the data are contained in Appendix A. Definitions of terms used in this report are contained in Appendix B. All comparisons cited in the text are significant at the 95 percent or higher confidence level, and pair-wise t-tests were used to test for the statistical significance of observed differences.



1

ij

Introduction

As students and their families try to cope with the rising costs of a college education and graduating students face the prospect of entering the labor market, major questions arise concerning the value of a 4-year college degree and, concommitantly, which major fields of study are likely to facilitate the transition from school to work. In light of these questions, it is valuable to look at the graduating class of 1983-84 in terms of its overall employment and educational experiences, and it is particularly important to examine how individuals fare in the labor market in terms of detailed undergraduate major fields of study.

Employment

About 86 percent of all 1983-84 baccalaureate degree recipients were employed 1 year after graduation -- about 74 percent were employed full-time and 12 percent were employed part-time; about 3 percent were not working, but were looking for work (table 1). The average annual salary of full-time employed graduates was about \$18,300, and about 23 percent were enrolled in school 1 year after completing a baccalaureate degree. Employment rates, unemployment rates, and the average annual salary of recent college graduates compare favorably with statistics for all U.S. labor market participants in 1985. In April 1985, about 78 percent of men and 53 percent of women 20 years of age and over participated in the civilian labor force (89 percent of 1983-84 baccalaureate degree recipients participated) and about 6 percent of men and 7 percent of women were unemployed (3 percent of 1983-84 recent college graduates were unemployed). The average annual salary of all individuals employed on private, non-agricultural payrolls was about \$15,000. The reported average annual salary of recent college graduates was \$18,300.

While overall statistics for the 1983-84 graduating class were fairly positive, table 1 also indicates that the employment status and average salaries of recent college graduates varied by the field of study that graduates pursued in college. For example, individuals who majored in biology, social sciences, humanities, or psychology were less likely to be employed full-time and more likely to be employed part-time than the typical undergraduate completer, while individuals with majors in business or engineering were more likely to be employed full-time. Table 2 shows how annual average salaries ranked by major field of study.

Enrollment

Major field of study and enrollment in school 1 year after the receipt of a degree are also somewhat related. Individuals who majored in biology, the social sciences, or psychology were more likely to be enrolled in school than the typical baccalaureate degree recipient (table 1). Of more interest, perhaps, than overall enrollment rates, is the relationship between enrollment status and employment status. Table 1 presents a measure of this relationship in the proportion of

Average hourly and weekly earnings of employees on private, non-agricultural payrolls from the Current Employment Statistics Survey, U.S. Department of Labor, Bureau of Labor Statistics, April, 1985.



Employment status of the population from the Current Population
Survey, U.S. Department of Labor, Bureau of Labor Statistics, April,

Table 1.--Labor force status, salaries, enrollment rates and job characteristics of 1983-84 baccalaureate degree recipients 1 year after graduation, by major field of study

			Employed	<u> </u>				Percent enrolled	Percent not working, but enrolled in school
 Maj or	Percent full-time	Percent part-time	Percent reporting job related to field of study	Percent reporting some career potential of job	Percent reporting degree nut required for job	Average annual salary of full-time employed	Percent unemployed		
AII majors	74	12	78	57	37	\$ 18,300	3	23	57
Business and management	85	5	8 7	66	40	19,000	<u></u>	12	37
Education	73	18	84	61	26	15;300	2	23	34
Engineering	84	j	93	76	13	25,100	2	23	98
Health profession	74	16	96	74	-: 34	21,100	3	17	46
Public affairs/ social services	7 <u>5</u>	11	 70	53	48	14,900	ë 6	21	4 9
Biological sciences	45	18	66	27	48	15,500	ż	8 1	84
Math, computer science, physical sciences	76	11	86	62	22	21,700	3	27	- 61
Social sciences	62	15	52	40	46	16,500	4	35	76
Humanities	59	20	57	4 0	52	14,400	5	29	62
Psychology	57	19	57	37	48	15,500	3	34	58
Other	73	12	74	53	45	16,300	5	18	41



Table 2. - Rankings of average annual salaries, by major field of study

Major field	Average annual salary	Ranking*
Engineering	\$ 25,100	1
Math, computer science,		_
physical sciences	21,700	2
Health_professions	21,100	2
Business and management	19,000	2 2 3
Social sciences	16,500	4
Biology	15,500	5
Psychology	15,500	- 5
Education	15,300	6
Public affairs/social	* 	
services	14,900	6
Humanities	14,400	7

^{*}Tied ranks indicate no significant differences in reported average annual salary.

recent college graduates who were not working (either unemployed, not working, or not looking for work) but who were enrolled in school 1 year after graduation. Of the 14 percent of all bachelor's degree recipients who were not working, more than half (57 percent) were enrolled in school. Graduates in major fields deviating significantly from this typical enrollment rate for non-working degree recipients are detailed in Table 3.

Table 3.--Enrollment rates of non-working bachelor's degree recipients, by selected major field of study

Mājor field	Proportion not working	Enrollment rate of non- working bachelor's degree recipients
All majors	14%	578
Engineering	$\frac{9}{37}$	98* 84* 76*
Biology	$\bar{3}\bar{7}$	84*
Social sciences	23	7.6*
Other majors	15	Äį̇̃××
Business and management	10	37***
Education	9	37 ** 37** 34**

^{*} Significantly higher enrollment rates for non-working graduates than the national average.

The employment and enrollment status of graduates provides a good indication of the activities 1 year after completion. Equally important is the relationship of these activities to the major field of study pursued in college and the individual's perception of, and satisfaction with, his other current activities.



Significantly lower enrollment rates for non-working graduates than the national average:

That is to say, simply obtaining a job is a necessary but not sufficient indicator of the value of a college degree. Rather, it is the job's relationship to that degree and the potential of the job in helping the graduate achieve his or her career goals that are truly significant:

Occupations, by Major Field of Study

To explore this relationship, the Recent College Graduates survey asked graduates about their field of employment, whether their job 1 year after graduation had any relationship to their field of study in college, whether they felt their job had career potential, and if they felt that a degree was required to obtain their current job. The following summary tables indicate, for each major field of undergraduate study, the major occupations of graduates - the type of jobs, the average reported salary of individuals in those jobs, the relatedness of the job to the major field of study, the graduates' perception of the career potential of the job, and the proportion who felt that a degree was not required to obtain their job.

Table 4.--Activities of 1983-1984 business and management graduates: 1985

Emp	loyed	 Unemplo	oyed	 	
Full-time	Part-time	Looking for work	 Not looking for work	Enrolled	Not working, but enrolled in school
		(I	Percent)		
85	5		$\bar{7}$	12	37

Table 5:--Major occupations of 1983-1984 business and management graduates, by occupation and job characteristics: 1985

ļ	Major occupation*						
Job characteristics	Business/manager	Sales person	Clerk	Laborer			
	(Percent of Gradua	tes)					
All graduates	58	21	4	4			
Reporting job related							
to major	95	88	61	6 0			
Reporting job had career							
potential	$\bar{8}\bar{3}$	73	43	53			
Reporting job required							
no degree	29	47	81	76			
Average annual salary	\$19,800	\$18,900	\$12,800	\$20,700			

^{*}Occupation in which at least 3 percent of graduates employed.



Business and management majors tended to find jobs (90 percent were employed), and to find jobs that were related to their major field of study - 58 percent found jobs in business and management and 21 percent found a job in sales. Graduates in both of these occupational areas overwhelmingly felt that their job was related to their major field, and high proportions of business and management graduates in these two occupations felt their jobs had at least some career potential, although only about half of those in sales positions felt that a degree was required for the job. On the other hand, only 12 percent of business and management majors continued on in school, and of the 10 percent that were not working, only about one third (37 percent) were enrolled in school.

Table 6.--Activities of 1983-1984 education graduates: 1985

Emp1	oyed	Unempl	oyed	<u> </u> 	<u> </u>
Full-time	Part-time	 Looking for work	 Not looking for work	Enrolled Enrolled	 Not working, but enrolled in school
	<u>· - ·</u>		(Percent)		
73	18	2	7	23	34

Table 7.--Major occupations of 1983-1984 education graduates by occupation and job characteristics: 1985

job obosovicni si i s	Major occupation*						
Job characteristics <u> </u>	Educator	 Business/ manager	Sales person	Clerk	Public affairs/ social workers		
	(Perc	ent of Gradu	ates)				
il graduates	76	5	4	3	3		
Reporting job related to	 98	4 <u>.</u> 45	22	26	6 0		
Reporting job had career potential	77	58	27	33	78		
Reporting job required no degree	8	64	- - - 89	8 3	46		
verage annual salary	\$14,100	\$16,700	\$13,400	\$13,100	\$15,900		

^{*}Occupation in which at least 3 percent of graduates employed.

Graduates in education tended to fird jobs (91 percent were employed) and to find jobs in the field of education (78 percent) and, as might be expected, to feel that a degree was required for the job. Education graduates employed in education tended to feel that their job had career potential, although the few education graduates employed in the area of public affairs/social work also felt that their job had career potential. Dimming this picture of education majors in the job market is their average annual salary, which ranked among the lowest of all degree recipients. About a quarter of education graduates went on to school after graduation, and only about one-third of those not working were enrolled.

Table 8.--Activities of 1983-84 engineering graduates: 1985

Employed		Unemplo	oyed	! !	1	
Full-time	 Part-time 	Looking for work	 Not looking for work	 Enrolled 	 Not working, but enrolled in school	
		(1	Percent)			
85	7	2	7	23	98	

Table 9.--Major occupations of 1983-1984 engineering graduates, by occupation and job characteristics: 1985

	Major occupation*						
Job chārāctēristics 	Engineer	 Technician	Business/	' . Labore:			
	(Percent of Graduates)						
All graduates	70	: 9	7	ŝ			
Reporting job related to major Reporting job had career	9 <u>8</u>	94	76	76			
potential	89	81	86	€5			
Reporting job required no degree	5	23	24	60			
Average annual salary	\$26,300	\$21,500	\$23,200	\$22,200			

^{*}Occupation in which at least 3 percent of graduates employed.

Engineers were the highest paid of all recent college graduates, on the average, and this high rate of pay was fairly consistent across all occupational areas that engineering graduates tended to enter. Additionally, engineering graduates tended to be employed at high rates, and almost all (98 percent) of those who were not working were enrolled in school. Engineers also tended to be satisfied with their jobs, with most reporting their job had career potential, was related to their major, and required a college degree. In terms of going on to school, only 23 percent of all engineering graduates were enrolled 1 year after graduation.

Table 10. -- Activities of 1983-84 health professions graduates: 1985

Emp1	oyed	Unempl	oyed	 	 	
Full-time	 Part-time 	 Looking for work	king for Not looking rk for work		Not working, but enrolled in school	
		(1	Percent)			
74	16	3	7	17	46	

Table 11.--Major occupations of 1983-1984 health professions graduates, by occupation and job characteristics: 1985

	Major occupation*						
ob characteristics	Health professiona		Business/manager				
		cent of graduates)					
: (1)			: =				
All graduates	74	12	5				
Reporting job related	<u> </u>		_				
to major	100	91	84				
Reporting job had car potential	eer 89	77	51				
Reporting degree not	-		J.				
required for job	34	21	35				
verage annual salary	\$21,500	\$18,100	\$22,500				

^{*}Occupation in which at least 3 percent of graduates employed:

Individuals who majored in the health professions tended to find employment in three areas, two of which -- health occupations and technicians -- are clearly related to the undergraduate major in the health professions. The third -- business -- was reported by graduates as being related to their field of study, although about a third of those employed in health occupations and business did not feel a degree was required. While health professions graduates in health occupations or working as technicians felt their job had career potential, those in a business and management occupation were less certain of the career potential of their job. In general, health professions majors did not tend to enroll in school following graduation (17 percent), but about half (46 percent) of those not working were enrolled:

Table 12. -- Activities of 1983-84 public affairs/social services graduates: 1985

Emp1	oyed	Unemple	oyed	<u> </u> 	
Full-time	:: :: : Part-time 	 Looking for work	Not looking for work	 Enrolled 	 Not working, but enrolled in school
		(1	Percent)		
74	16	Š	Ż	17	46

Table 13.--Major occupations of 1983-1984 public affairs/social services graduates, by occupation and job characteristics: 1983

	Job characteristics	Major occupation*								
_		Public affairs/	Business/	Sales person	Clerk	Service person	Educator	Health professiona		
	1			(Percent of gra	duates)					
11	graduates	36	17	12	10	6	6	4		
	Reporting work									
	related to major	97	54	47	59	41	65	100		
	Reporting job had									
	career potential	59	89	71	47	**	4 9	6 8		
	Reporting degree not	:								
	required for job	35	46	79	62	ŹŹ	3			
/eː	age annual salary	\$14,200	\$19,100	\$13,100	S14;100	\$10,800	\$18,500	\$13,800		

^{*} Occupation in which at least 3 percent of graduates employed.



^{**} Number in sample too small to yield a reliable estimate.

Of all the professional undergraduate majors (i.e., business and management, education, engineering, health professions, and public affairs/social services), individuals who majored in public affairs/social services seemed to enter more occupational fields, to enter fields that were unrelated to their field of study, and did not require a degree. Although a high proportion of these graduates were employed, their overall average salary was among the lowest of all graduates. Except for those who went into business and management occupations, sales, or health occupations, public affairs/social services graduates did not tend to feel their job, 1 year after graduation, had much career potential. Additionally, graduates in public affairs/social services did not tend to enroll in additional schooling after graduation, even though their occupational situation was not entirely satisfactory.

Table 14. -- Activities of 1983-84 biological sciences graduates: 1985

Emp1	oyed	Unemp1	oyed		1
Full-time	Part-time Part-time 	 Looking for work	 Not looking for work	Enrolled	 Not working, but enrolled in school
	_	(1	Percent)		
$4\bar{\bar{5}}$	18	Ž	3 <u>.</u>	 81	84

Table 15: -- Major occupations of 1983-1984 biological sciences graduates; by occupation and job characteristics: 1985

	Major occupation*									
Job characteristics	Technician	Laborer	Educator	Biological scientist	Service personnel	Business/	Sales person	Clerk	Health professional	
-	(Percent of graduates)									
All graduates	40	ii	ii	9	8	7	õ	4	Ī.	
Reporting job										
related to major		10	97	94	14	29	38	27	84	
Reporting job had										
career potential	4	**	73	65	**	76	29	**	44	
Reporting degree not										
required for job	37	ij	15	12	91	43	71	87	56	
Average annual salary	\$14,700	\$12,700	\$15,000	\$19,100	\$13,400	\$17,700	\$12,800	\$10,400	\$23,400	

^{*} Occupation in which at least 3 percent of graduates employed.



^{**} Number in sample too small to yield a reliable estimate.

Individuals who majored in the biological sciences in college tended to participate in the labor force at a lower rate (65 percent) than most undergraduate completers (89 percent). On the other hand, individuals who received a degree in the biological sciences tended to enroll in school in much higher proportions than the typical graduate (81 percent vs 23 percent). A high proportion of biological science majors who were not working were enrolled in school. Of those graduates who were employed, 40 percent were working as technicians -- a job related to their field of study, but with not much perceived career potential. Additionally, biological sciences completers tended to be employed in a variety of occupations ranging from professional occupations (education and the biological sciences) to laborers and service occupations. Average salaries of employed biological science graduates also tended to be on the low side; ranking fifth out of seven.

Table 16:--Activities of 1983-84 mathematics; computer sciences; and physical sciences graduates: 1985

Empl	oved	Unempl	oyed]	
Full-time Part-time		 Looking for work	 Not looking for work	 Enrolled 	 Not working, but enrolled in school
			(Percent)		
76	11	Š	10	27	61

Table 17. -- Major occupations of 1983-1984 mathematics, computer science, physical science majors; by occupation and job characteristics: 1985

		Ī		Major oc	cupation*	
Job characteristics		Computer specialist	Educator	Business/ manager	Engineer	Biological scientist
	-		(Percent	of graduat	es)	-
All graduates	44	19	<u>-</u> 9	8	7	 5
Reporting job	-					
related to major Reporting job had	93	98	96	66	96	98
career potential Reporting degree n		92	40	71	86	78
required for job	16	13	7	21.	7	17
Average annual salar	ÿ \$21,500	\$25,100	\$ 14,600	\$20,900	\$25,400	\$21,800

Occupation in which at least 3 percent of graduates employed



About 90 percent of completers in math, computer science, and physical sciences areas participated in the labor force 1 year after graduation. Of those that were employed, most were working in jobs that were perceived as related to their major field of study, required a degree, and had some career potential. It is interesting to note, however, that of those completers in math, computer science, or the physical sciences, who were employed in teaching, only 40 percent fult their job had some career potential. With respect to salary, graduates in the math and science areas had relatively high salaries on the average, ranking second only to engineering graduates. However, those that entered the teaching profession had significantly lower salaries than the average graduate in math, computer science, and the physical sciences.

Table 18.--Activities of 1983-84 social sciences graduates: 1985

<u> Emplo</u>	oyed	Unempl	oyed	[] i	
Full-time Part-time		Looking for work	Not looking for work	Enrolled	 Not working, but enrolled in school
			(Percent)		
62	: 15	4	19	35	76

Table 19.--Major occupation of 1983-84 social sciences graduates, by occupation and job characteristics. 1985

]	Business/		Sales	Public affairs/			Service	1
Job characteristics	manager	Educator	person	social worker	Technician	Clerk	personnel	Communicato
				(Percent	of graduates)			
All graduates	27	13	13	12	8	7	7	Ä
Reporting job								
related to major	60	78	33	71	67	3 4	18	24
Reporting job had								-
career potential	72	55	61	60	53	19	12	63
Reporting degree not								
required for job	33	20	54	46	29	69	98	55
verage annual salary	\$18,700	\$13,200	\$19,600	\$16,300	\$15,000	\$14,500	\$10,000	\$13,800

^{*} Occupation in which at least 3 percent of graduates employed.

The social sciences include such diverse fields as anthropology, criminology, economics, history, international relations, and sociology. Given the diversity of



Major Occupation*

this field of study, it is reasonable that individuals who majored in the social sciences would tend to enter many different occupational areas. The above table shows, however, four of the eight major occupations (employing 3 percent or more of graduates in the field) that social science graduates entered were felt to be unrelated to their major field of study, and, on the average, only 40 percent of social science graduates felt that their job had some career potential. On the other hand, social science graduates did tend to continue their schooling at a higher rate than the average degree recipient, and 76 percent of those who were not working were enrolled in school.

Table 20.--Activities of 1983-84 humanities graduates: 1985

Empl	oyed	Unempl	oyed	 	 -
Full-time	_ Pārt-timē 	Looking for work	 Not looking for work	Enrolled	 Not working; but enrolled in school
			(Percent)		
59	20	5	16	29	62

Table 21 .-- Major occupations of 1983-1984 humanities graduates, by occupation and job characteristics: 1985

<u> </u>					Majo	or Occupation	*				
Job characteristics	Fine artist	Business/ manager	Educator	Sales person	Clerk	Service personnel	Laborer	 Technician	Public af		
	(Percent of graduates)										
All graduates	17	15	14	13	11 11	7	7	5	5		
Reporting job											
related to major	93	42	86	46	36	10	55	52	66		
Reporting job had											
career potential	65	74	55	43	27	12	36	56	tř tř		
Reporting degree not	= =	_ - 	• - - -		ē						
required for job	38	42	12	69	74	100	88	48	38		
Average annual salary	\$13,800	\$16,500	\$13,400	\$13,700	\$12,900	\$12,100	\$13,700	\$17,600	\$12,600		

Occupation in which at least 3 percent of graduates employed.



^{**} Number in sample too small to yield a reliable estimate

Humanities graduates include individuals who majored in the fine and applied arts, English, foreign languages, philosophy, and theology, so again, it might be expected that graduates in this field of study would enter a variety of occupational areas. This is the case, since 5 percent or more of employed humanities graduates entered nine occupational areas. Of those nine major occupational areas employing humanities graduates, only two -- fine arts and education -- were perceived to be related to their undergraduate major by a large proportion of humanities graduates, and over half (52 percent) felt they did not need a degree to obtain their current job. As with social science graduates, only about 40 percent of humanities graduates felt their job had some career potential, and graduates in the humanities were the lowest paid of all undergraduate degree recipients. Given this dim employment situation, it might be expected that graduates in the humanities might enroll in additional education or training. This does not seem to be the case, however, since only 27 percent were enrolled -- a proportion not significantly different from the typical undergraduate completers.

Table 22. -- Activities of 1983-84 psychology graduates: 1985

Employed		Unemployed			
Full-time	 Part-time 	Looking for work	 Not looking for work	Enrolled	 Not working, but enrolled in school
		(1	Percent)		
57	19	5	19	34	58

Table 23:--Major occupations of 1983-1984 psychology graduates, by occupation and job characteristics: 1985

 	Major occupation*						
Job characteristics	Educator	Public affairs/	Business/	Service personnel	Clerk	Technician	Sales
	<u> </u>		(Pe	rcent of gr	aduates)		
All graduates	16	15	15	11	10	9	9
Reporting job							
related to major	90	96	74	39	37	41	42
Reporting job had							_
career potential	62	69	70	18	34	38	43
Reporting degree not							
required for job	25	24	33	83	54	54	70
Average annual salary	\$14,700	\$13,400	\$19,200	\$12,100	\$12,900	\$17,600	\$13,700

^{*} Occupation in which at least 3 percent of graduates employed.



Psychology majors do not tend to be employed in large proportions in any single field. Rather, they seem to be fairly evenly distributed among several occupations -- professional and non-professional. On the average, the salary of psychology majors ranked fifth, being significantly higher than education, public affairs, and humanities majors. Only about 47 percent of psychology majors felt their job was related to their major field, but an overwhelming number of those in education and public affairs/social services occupations felt this way. About 37 percent of psychology majors felt their job 1 year after graduation, had some career potential, although more psychology grac ates in professional occupations (education, public affairs/social services, ar business) tended to perceive some career potential for their jobs than did those in non-professional fields. Surprisingly, only 34 percent of psychology majors were enrolled in school 1 year after graduation, and only 58 percent of those who were not working were enrolled, which did not differ from the average for all graduates (57 percent).

It is evident from these results that majoring in a professional field of study at the undergraduate level eases the transition from school to work for bachelor's degree recipients, and that a baccalaureate degree in a professional field tends to be a terminal degree -- at least in the short term. A bachelor's degree in arts and sciences fields such as biology, social science or psychology, however, is more likely to be a transitional degree in that a high proportion of completers in these fields tend to enroll in school almost immediately after receiving their undergraduate award, either because they feel the need for further schooling or because they had planned to enter graduate or first-professional school right after completing college. It must also be noted that except for occupations in which a degree is a recognized standard for admission (i.e., education and engineering), a surprisingly high proportion of degree recipients (37 percent) did not feel that a degree was necessary to obtain the job they held 1 year after graduation.

For Further Information

For more information about this survey, contact Roslyn Korb, Center for Education Statistics, Postsecondary Education Statistics Division, Special Surveys and Analysis Branch, Room 408, 555 New Jersey Avenue, NW., Washington, D.C. 20208, telephone (202) 357-6587. Information about the Center's statistical program and a catalog of publications may be obtained from the Education Information Branch, same address, Room 300, telephone (202) 357-6651 or 1-800-424-1616. Inquiries concerning data tapes on the 1985 Recent College Graduates survey should be directed to the Information Systems and Media Services Branch, same address, Room 306, telephone (202) 357-6522.



Appendix A

TECHNICAL NOTES

Description of Survey

The 1985 Recent College Graduate survey was conducted in June through. September, 1985. Eighteen thousand bachelor's and master's degree recipients were selected in the second stage of a 2-stage sample selection procedure. The first stage sample was selected from all Education Department-recognized accredited institutions in the 50 States and the District of Columbia that award bachelor's or master's degrees, or both. Institutions were stratified on two dimensions - emphasis on education (i.e., the proportion of all bachelor's degrees awarded in education was greater than 50 percent, or the number of bachelor's degrees in education was 100 or more) and institutional control (public and private). Within each stratum, institutions were selected with probability proportional to size, where size was defined as the total number of bachelor's and master's degrees awarded. Traditionally black institutions were oversampled by tripling their probability of selection. There were 404 institutions selected through this process.

Lists of individuals who received bachelor's or master's degrees between July 1, 1983 and June 30, 1984 were obtained from 97 percent of the sampled institutions. Graduates were stratified on the basis of level of degree (bachelor's or master's degree), field of major (education, math, computer science, physical science, letters, and all other fields), and Hispanic surname. Differential sampling rates were applied to graduates within each stratum. There were 16,000 bachelor's and 2,000 master's degree recipients sampled. The survey and follow-up procedures yielded an effective response rate of 78 percent.

A ratio estimation procedure was used to inflate the sample results to estimates applicable to the total number of bachelor's and master's degree recipients in 1983-84. The 1983-84 Higher Education General Information Survey (HEGIS) of Earned Degrees provided the applicable estimates for the total number of graduates in the various strata:



Reliability of the Estimates

The estimates in this report are subject to both sampling and non-sampling error. Sampling error arises because a small number of individuals are selected from a population and are used to make inferences to, and draw conclusions about, the population. Estimates derived from one sample would differ from estimates derived from another sample drawn from the same population in the same way. These differences are the result of sampling variability. One measure of sampling error is the coefficient of variation (CV). The CV is a measure of the percent of an estimate that is due to sampling variability. Table A presents the coefficient of variations for each of the estimates in table 1 of this report. The CV can be used to determine the standard error of an estimate. For example, the proportion of recent college graduates who were employed full-time in 1985 was estimated to be 74 percent (table 1). The CV of this estimate is measured to be (0.006). This means that about 0.6 percent of the estimate, or 0.4 percent of the proportion, is a measure of the variation of this estimate among samples, and, in fact 0.4 percent is the standard error of the estimated proportion of full-time employed recent college graduates.

A standard error may be used to establish a confidence interval around an estimate. To establish the 95 percent confidence interval around the estimate of the proportion of full-time employed recent college graduates, multiply the standard error (0.004) by 1.96 equal to .008, and add and subtract this value to the estimate (.74 ± .008). When multiplied by the standard error of the estimate, 1.96 provides the limits of a 95 percent confidence interval. The resulting confidence interval (.73 - .75) would contain the "true" proportion of full-time employed in 95 percent of the samples that might be drawn from the population of recent baccalaureate degree recipients. All comparisons cited in this report are significant at the 95 percent or higher confidence level, and pair-wise t-tests are used to test for the statistical significance of observed differences.

³Coefficients of variation for all other estimates presented in this report are available upon request.



Table A.--Coefficient of variation for estimates in table 1--labor force status, salaries, enrollment rates; and job characteristics of 1983-84 baccalaureate degree recipients 1 year after graduation, by major field of study.

hajor	Percent Employed			Average annual salary of full-		Percent not employed, but enrolled in	Percent reporting job related to field of study	Percent reporting	Percent reporting degree
	Full-time	Part-time	Unemployed	time employed	school	school	study	potential of job	not required for Job
All majors	Ö. 6	2.9	ë.ö	0.6	3.6	2.6	0.7	1.0	1.9
Business and management	1.0	14.6	13.7	i.i	9.7	9.6	1.1	1.9	3.8
Education	1.9	7.0	19.7	1.3	4.3	8.3	1.4	2.2	6.2
Engineering	2.1	14.1	31.8	1.2	10.9	15.7	170	2.8	14.7
Health professions	2.3	11.3	37.0	1.1	15.3	18.2	17.1	27.9	8,7
Public affairs/ social services	7.8	24.9	30.0	2.6	23.6	23.9	ÿ. ä	6 .1	9 .2
Biological sciences	9.8	12.6	33.9	3.7	9.6	9,3	5.2	11.0	7.6
Math, computer science, physical science	4.3	8.3	16. 8	1.7	ä. <u>9</u>	 9.9	0.9	3.0	5 .9
Social sciences	3.2	6.7	16.7	2.0	8.4	8.9	4.5	4.3	5.7
Humanities	5.3	ē. Ö	17.8	1.7	8.7	11.0	4.8	4.4	4.7
Psychology	6.9	14.4	26.3	3.1	12.8	15.9	913	B:0	8.2
Other	6.1	11.8	18.2	119	12.7	11.0	2.9	3.3	5.3

Appendix B

Definitions of Terms Used in This Report

- 1. Employment Status Graduates were asked if they were employed for pay during the week of May 4, 1985. A response of "yes" indicated they were employed. The number of reported hours per week indicates full-time/part-time employment (over 30 hours for full-time; 30 hours or less for part-time). Unemployed indicates those who were not working, but were looking for work.
- 2. <u>Job-related to major field of study</u> Graduates were asked if the work of their principal job was closely related or somewhat related, or not related to their degree.
- 3. Job has career potential Graduates were asked to select the statement that best described their principal job. Responses of "job has either possible or definite career potential" were used.
- 4. Degree not required to obtain job a response of "no" to the question: "Was a college degree required in order to acquire principal job?"
- 5. Major Field of Study The HEGIS taxonomy of instructional programs was used to code student-reported major field of study. Each major field used in this report is an aggregate field composed of several specific programs. Table B presents the major field of study used, the specific programs that were included in the major field of study, and the HEGIS taxonomy codes for the specific programs.
- 6. Occupations were coded from written responses to the question of "what type of work do you do?" The 1980 Occupational Classification system of the U.S. Bureau of the Census was used. Table B lists the titles of specific occupations and their corresponding codes. Table C presents the occupational areas used in this report and the specific occupational codes that were used to classify graduates into an occupational area.



Table B.--Major field of study used in this report, specific programs included in each major field, and HEGIS classification codes

Major Field of Study Specific Programs	HEGIS Code
Business and Management	0500
Business and Commerce, General	0501
Accounting	050 1 0502
Business Statistics	0503
Banking and Finance	0503
Investments and Securities	0504
Business Management and Administration	
Operations Research	0506
Hotel and Restaurant Management	0507 0508
Marketing and Purchasing	<u>0508</u>
Transportation and Public Activities	0509 0510
Real Estate	0510 0511
Insurance	0511 0512
International Business	0512 0513
Secretarial Studies	
	0514
Personnel Management Labor and Industrial Relations	0515
Business Economics	0516
Other	0517
Ciner	0599
Education	0800
Education, General	0000
Education, by Level	0801-0807,
	0823
Special Education	0808-0820,
	0899-2
Social Foundations	0821
Educational Psychology	0822
Education Statistics and Research	0824
Education Testing, Evaluation, and	
Measurement	0825
Student Personnel	0826
Education Administration	0827-0829
Education, by Field	0830-0839;
	0899-1, 0899-3,

Table B.--Major field of study used in this report, specific programs included in each major field, and HEGIS classification codes (Continued)

Engineering	0900
Materials 0915	
Ceramics 0916	
Textiles 0917	
Mining and Minerals	€9±8
Engineering Physics	0919
Nuclear 0920	
Engineering Mechanics	0921
Environmental and Sanitation	0922
Naval Architecture and Marine	0923
Ocean 0924	
Engineering Technologies	0925
Other 0999	
Health Professions	1200
Health Professions, General	1201
Hospital & Health Care Administration	1202
Nursing 1203	1202
Dental & Medical Specialties	12 0 5-1207
Occupational Therapy	1208
Physical Therapy	1212
Public Health	1214
Medical Record Librarianship	1215
Bicmedical Communication	1217
Speech Pathology and Audiology	1220
Clinical Social Work	1222
Other 1299	
Public Affairs/	
Social Services	2100
Community Services, General	
Public Administration	2101
Parks and Recreation Management	2102
Social Work and Helping Services	2103
Law Enforcement and Corrections	2104
International Public Service	2105
Other 2199	2106



Table B. -- Major field of study used in this report, specific programs included in each major field, and HEGIS classification codes (Continued)

Biologic	al Science	0400
	± ± ±	1
	Biology, General	0401
	Botany	0402
		0403
	Plant Pathology, Pharmacology,	
	Physiology	0404-0406
	Zoology	0407
	Pathology	0408
	Pharmacology	0409
	Physiology	0410
	Microbiology	0411
	Anatomy	0412
	Histology	0412
	Biochemistrý	
	Biophysics	0414
	Molecular Biology	0415
		0416
	All Biology _	0417
	Marine Biology	0418
	Biometrics and Biostatistics	0419
	Ecology 0420	
	Entomology	0421
	Genetics 0422	.11 11
	Radiobiology	0423
	Nutrition, Scientific	0424
	Neurosciences	0425
	Toxicology	0426
	Embryology	0427
	Other 0499	
Math Ca		
	mputer Science	
THYSIC	ar betence	
	Math, General	1701
	Statistics	1702
	Applied Mathematics	1702
	Other Math	
	Physical Science, General	1799 1901
	Physics	1902-1904
	Chēmistrÿ	
	onemistry	1905-1910,
	Astronomy	1912
		1911
	Atmosphere Science and Meteorology Geology	1913
	Geochemistry	1914
		1915
	Geophysics and Seismology	1916
	Earth Sciences, General	1917
	Paleontology	1918
	Oceanography	1919
	Metallurgy	1920
	Other Physical Sciences	1999
	Computer and Information Sciences	0701-0705,
		0799

 $\tilde{\chi}_{i}(\tilde{s})_{i}$

Table B.--Major field of study used in this report, specific programs included in each major field, and HEGIS classification codes (Continued)

Sc	ocial Science	2200
		====
	Social Science, General	2201
	Anthropology	2202
	Archaeology	2203
	Economics	2204
	History	2205
	Geography	2206
	Political Science and Government	2207
	Sociology	2208
	Criminology	2209
	International Relations	2210
	Ethnic Studies	2211-2213
	Urban Studies	2214
	Demography	2215
	Other	2299
Hu	unanities	
	English	156±-1508
	Philosophy	1509
	Religious Studies	1510
	Foreign Languages	1100-1116,
		1199
	Fine and Applied Arts	1000-1011,
		1099
_		
Ps	ychology	2000
	Psychology, General	2001
	Experimental	2002
	Clinical	2003
	Psychology for Counseling	2004
	Social	2005
	Psychometrics	2006
	Stātistics in Psychology	2007
	Industrial	2008
	Developmental	2009
	Physiological	2010
	Other	2099
	·	2077



Table B. - Major field of study used in this report, specific programs included in each major field, and HEGIS classification codes (Continued)

Other

Agriculture and Material Resources	0100-0117,
_ :	0199
Communications	0600-0505.
	0699
Architecture	0200-0206,
	0299
Area Studies	0300-0314,
	0399
Home Economics	1300-1307
111	1399
Library Science	1600-1601.
	1699
Military Science	1800-1803,
	1899
Interdisciplinary Studies	4900-4904.
•	4999



Table C.-Occupational codes included in each of the occupational areas used in this report

Occupational Title	Occupational Code
Business and Management	003-037
Education	113-159, 163
Engineering	044-059
Health Occupations	084-089; 095-106
Public Affairs/Social Services	174-177
Biological Sciences	078, 079, 083
Computer Specialists	064, 065
Communications	195-198
Fine Arts	183-194
Technicians	203-235
Cierical	303-389
Laborers	503-599, 613-699, 703-799, 803-889
Sales	243-285
Service	403-469



Occupational Classification System

Equivalent numeric codes follow the alphabetic code. Either code may be used, depending on the processing method. Numbers in parentheses following the occupation categories are the 1977 Standard Occupational Classification code equivalents. The abbreviation "pt" means "part" and "n.e.c." means "not elsewhere classified."

Occu- pation code	Oscupation category	Occu- pation code	Occupation category
	MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS		MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.
	Executive; Administrative; and Managerial		Professional Specialty Occupations—Con.
	Occupations		Engineers, surveyors and mapping scientists—Con.
003	Legislators (112)	048	Chemical engineers (1626)
004	Chief executives and general administrators, public	049	Nuclear engineers (1627)
	administration (111)	053	Civil engineers (1628)
005	Administrators and officials, public administration	054	Agricultural engineers (1632)
	(pt 113 and 119, except 1136)	055	Electrical and electronic engineers (1633, 1636)
006	Administrators, protective services (pt 113)	056	Industrial engineers (1634)
007	Financial managers (122)	057	Mechanical engineers (1635)
008	Personnel and labor relations managers (123)	058	Marine engineers and naval architects (1637)
009	Purchasing managers (124)	059	Engineers, n.e.c. (1639)
013	Managers; marketing, advertising, and public relations	063	Surveyors and mapping scientists (1642)
	(125)		Mathematical and computer scientists
014	Administrators, education and related fields (128)	064	Computer systems analysts and scientists (171)
015	Managers, medicine and health (131)	065	Operations and systems researchers and analysts
016	Managers, properties and real estate (1353)	12111	(172)
017	Postmasters and mail superintendents (1344)	066	Actuaries (1732)
018	Funeral directors (pt 1359)	067	Statisticians (1733)
019	Managers and administrators, n.e.c. (1136, 121, 126,	068	Mathematical scientists; n.e.c. (1739)
	127, 132-139, except 1344, 1353, pt 1359)		Natural scientists
	Management related occupations	069	Physicists and astronomers (1842, 1843)
023	Accountants and auditors (1412)	073	Chemists, except biochemists (1845)
024	Underwriters (pt 1419)	074	Atmospheric and space scientists (1846)
025	Other financial officers (pt 1419)	075	Geologists and geodesists (1847)
026	Management analysts (142)	076	Physical scientists, n.e.c. (1849)
027	Personnel, training, and labor relations specialists	077	Agricultural and food scientists (1853)
	(143)	078	Biological and life scientists (1854, 1859)
028	Purchasing agents and buyers, farm products (pt 144)	079	Forestry and conservation scientists (1852)
029	Buyers, wholesale and retail trade, except farm	083	Medical scientists (1855)
	products (432)		Health diagnosing occupations
033	Purchasing agents and buyers; n.e.c. (pt 144)	084	Physicians (261)
034	Business and promotion agents (145)	085	Dentists (262)
035	Construction inspectors (1171, 618)	086	Veterinarians (27)
036	Inspectors and compliance officers, exc. construc-	087	Optometrists (281)
202	tion (1172, 147)	088	Podiatrists (283)
037	Management related occupations, n.e.c. (149)	089	Health diagnosing practitioners, n.e.c., (289)
			Health assessment and treating occupations
		095	Registered nurses (29)
	Professional Specialty Occupations	096	Pharmacists (301)
042	Washington 1985	097	Dietitians (302)
043	Architects (15)	000	Therapists
044	Engineers, surveyors and mapping scientists	098	Inhalation therapists (pt 303)
044	Aerospace engineers (1622)	099	Occupational therapists (2t 303)
045	Metallurgical and materials engineers (1623)	103	Physical therapists (pt 303)
046 047	Mining engineers (1624)	104	Speech therapists (pt 303)
U4/	Petroleum engineers (1625)	105	Therapists, n.e.c. (pt 303)



Occu- pation code	Occupation category	Occu- pation code	Occupation category
	MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS—Con.		MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS -Con.
	Professional Specialty Occupations—Con.		Professional Specialty Occupations-Con:
: <u></u>	Health assessment and treating occupations—Con.		Social, recreation, and religious workers
106	Physicians' assistants (304)	174	Social workers (2032)
	Teachers, postsecondary	175	Recreation workers (2033)
113	Earth, environmental, and marine science teachers (2212)	176 177	Clergy (2042) Religious workers, n.e.c. (2049)
114	Biological science teachers (2213)		Lawyers and judges
115	Chemistry teachers (2214)	<u>178</u>	Lawyers (211)
116	Physics teachers (2215)	179	Judges (212)
117	Natural science teachers, n.e.c. (2216)		Writers, artists, entertainers, and athletes
118	Psychology teachers (2217)	183	Authors (pt 321)
119	Economics teachers (2218)	184	Technical writers (pt 321)
123	History teachers (2222)	185	Designers (322)
124	Political science teachers (2223)	186	Musicians and composers (323)
125	Sociology teachers (2224)	187	Actors and directors (324)
126	Social science teachers, n.e.c. (2225)	188	Painters, sculptors, craft-artists, and artist
127	Engineering teachers (2226)		:printmakers: (325, pt 7263)
128	Mathematical science teachers (2227)	189	Photographers (326)
129	Computer science teachers (2228)	193	Dancers (327)
133	Medical science teachers (pt 2232)	194	Artists, performers, and related workers, n.e.c. (328,
134	Health specialties teachers (pt 2232)	: - 4 KW	329)
135	Business, commerce, and marketing teachers (2233)	195	Editors and reporters (331)
136	Agriculture and forestry teachers (2234)	197	Public relations specialists (332)
137	Art, drama, and music teachers (2235)	198	Announcers (333)
138	Physical education teachers (2236)	199	Athletes (34)
139	Education teachers (2237)		
143	English teachers (2238)		TENUNICAL BALPA AND ADMILLAND AND
144	Foreign language teachers (2242)		TECHNICAL, SALES, AND ADMINISTRATIVE
145	Law teachers (2243)		SUPPORT OCCUPATIONS
146	Social work teachers (2244)		
147	Theology teachers (2245)		Technicians and Related Support Occupations
148	Trade and industrial teachers (2246)		Health technologists and technicians
149	Home economics teachers (pt 2249)	203	Clinical laboratory technologists and technicians
153	Teachers, postsecondary, n.e.c. (pt 2249)		(362)
154	Postsecondary teachers, subject not specified	204	Dental hygienists (363)
	Teachers, except postsecondary	205	Health record technologists and technicians (364)
155	Teachers, prekindergarten and kindergarten (231)	206	Radiologic technicians (365)
N (156)	Teachers, elementary school (232)	207	Licensed practical nurses (366)
P (157)	Teachers, secondary school (233)	208	Health technologists and technicians, n.e.c. (369)
158	Teachers, special education (235)		Technologists and technicians, except health
159	Teachers, n.e.c. (234, 239)		Engineering and related technologists and
163	Counselors, educational and vocational (24)	010	technicians
	Librarians, archivists, and curators	213	Electrical and electronic technicians (3711)
164	Librarians (251)	214	Industrial engineering technicians (3712)
165	Archivists and curators (252)	215 216	Mechanical engineering technicians (3713)
	Social scientists and urban planners	<u>216</u> 217	Engineering technicians, n.e.c. (3719)
166	Economists (1912)	217 218	Drafting occupations (3721)
167	Psychologists (1915)	410	Surveying and mapping technicians (3722)
168	Sociologists (1916)	223	Science technicians
169	Social scientists, n.e.c. (1913, 1914, 1919)	223 224	Biological technicians (382) Chemical technicians (3831)
173	Urban planners (192)	225	Science technicians, n.e.c. (3832, 3833, 384, 389)



Occu- pation code	Occupation category		Occupation category code	
	TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.		TECHNICAL, SALES, AND ADMINISTRA	ATIVE
	Technicians and Related Support Occupations—Con.		Administrative Support Occupations, Inclu	ding
<u> </u>	Technicians, except health, engineering, and science		Clerical—Con.	
226	Airplane pilots and navigators (345)			
227	Air traffic controllers (391)		Supervisors, administrative support occup	
228	Broadcast equipment operators (392)	307	Supervisors; distribution, scheduling, and	d adjusting
229	Computer programmers (3931, 3932)		clerks (4522-4528)	
233	Tool programmers, numerical control (3934)		Computer equipment operators	
234	Legal assistants (396)	308	Computer operators (4852)	
235	Technicians, n.e.c. (399)	309	Peripheral equipment operators (4853)	
			Secretaries, stenographers, and typists	
	Sales Occupations	R (313)	Secretaries (4612)	
	Sales Occupations	314	Stenographers (4613)	
243	Supervisors and proprietors, sales occupations (40,	315	Typists (4622)	
	pt 4518)	-	Information clerks	
	Sales occupations, business goods and services	316	Interviewers (4642)	
253	Insurance sales occupations (4222)	317	Hotel clerks (4643)	
254	Real estate sales occupations (4223)	318	Transportation ticket and reservation age	nts (4644)
255	Securities and financial services sales occupations	319	Receptionists (4645)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	(4224)	323	Information clerks, n.e.c. (4649)	
256	Advertising and related sales occupations (4253)		Records processing occupations, except fina	ancial
257	Sales occupations, other business services (4252)	325	Classified ad clerks (4662)	3110101
258	Sales engineers (pt 16)	326	Correspondence clerks (4663)	
259	Sales representatives, mining, manufacturing, and	327	Order clerks (4664)	
	wholesale (412, 413)	328	Personnel clerks, except payroll and time	keenina
	Sales occupations, personal goods and services	OLU	(4692)_	Keeping
263	Sales workers, motor vehicles and boats (4142, 4144)	329	Library clerks (4694)	
264	Sales workers, apparel (pt 4146)	335	File clerks (4696)	
265	Sales workers, shoes (pt 4146)	335	Records clerks (4693, 4699)	
266	Sales workers, furniture and home furnishings (4148)		Financial records processing occupations	
267	Sales workers; radio, television, hi-fi, and	S (337)	Bookkeepers, accounting, and auditing cl	orks 14711
	appliances (4143, 4152)	338	Payroll and timekeeping clerks (4713)	CIK2 (77 12
268	Sales workers, hardware and building supplies (4153)	339		
269	Sales workers, parts (4167)		Billing clerks (4715)	
274	Sales workers, other commodities (4145, 4147,	343	Cost and rate clerks (4716)	
	4154, 4156, 4159, pt 4162, 4169, 4259, 4665)	344	Billing, posting, and calculating machine (operators
275	Sales counter clerks (pt 4162)		(486)	
2 (276)	Cashiers (4683)	 245	Duplicating, mail and other office machine	operators
277	Street and door-to-door sales workers (4163)	345	Duplicating machine operators (4872)	
278	News vendors (4165)	346	Mail preparing and paper handling machin	e operator
.,0	Sales related occupations		(4873)	
283	Demonstrators, promoters and models, sales (435)	347	Office machine operators, n.e.c. (4879)	
:83 284	Auctioneers (pt 439)	= = =	Communications equipment operators	
285	Sales support occupations; n.e.c. (434, 436, pt 439)	348	Telephone operators (4652)	
:00	Sales support occupations; n.e.c. (434; 436; pt 439)	349	Telegraphers (4623)	
		353	Communications equipment operators, n.	e.c. (4659)
	Administrative Support Occupations, Including Clerical	- <u>-</u> -	Mail and message distributing occupations	
		354	Postal clerks, exc. mail carriers (4723)	
<u>. i</u>	Supervisors, administrative support occupations	355	Mail carriers, postal service (4733)	
03	Supervisors, general office (4511-4514, 4516, pt	356	Mail clerks, exc. postal tervice (4722)	
	_4518, 4519, 4529, 4537)	3 57	Messengers (4732)	
)4	Supervisors, computer equipment operators (4535)		Material recording, scheduling, and distribut	ing
) 5	Supervisors, financial records processing (4521,		clerks, n.e.c.	-
:	4536)	359	Dispatchers (4741)	
)6	Chief communications operators (4515)	363	Production coordinators (4742)	



Decu- pation code	Occupation category	Occu- pation code	Occupation category
	TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS—Con.		SERVICE OCCUPATIONS—Con.
	Administrative Support Occupations, Including		Protective Service Occupations—Con.
	Clerical—Con.		Guards
		425	Crossing guards (5132)
11.1	Material recording, scheduling, and distributing clerks, n.e.c.—Con.	426 427	Guards and police; exc. public service (5134) Protective service occupations, n.e.c. (5133)
364	Traffic, shipping, and receiving clerks (4743)		Service Occupations, Except Protective and Private
365	Stock and inventory clerks (4744)		Housahold
366	Meter readers (4745)		
368 368	Weighers, measurers, and checkers (4746)	700	Food preparation and service occupations
369 373	Samplers (4747)	433	Supervisors; food preparation and service occupations (5021)
373 374	Expeditors (4748)	434	Bartendars (5212)
3/4	Material recording, scheduling, and distributing clerks, n.e.c. (4749)	U (435)	
	Adjusters and investigators	436	Cooks, except short order (5214)
375	Insurance adjusters, examiners, and investigators	437	Short-order cooks (5215)
	(4782)	438	Food counter, fountain and related occupations
376	Investigators and adjusters, except insurance (4783)		(5216)
377	Eligibility clerks, social welfare (4784)	439	Kitchen workers, food preparation (5217)
378	Bill and account collectors (4786)	443	Waiters'/waitresses' assistants (5218)
	Miscellaneous administrative support occupations	444	Miscellaneous food preparation occupations (5219)
379	General office clerks (4632)		Health service occupations
383	Bank tellers (4682)	445	Dental assistants (5232)
384	Proofreaders (4792)	446	Health aides, except nursing (5233)
385	Data-entry keyers (4624)	447	Nursing aides, orderlies, and attendants (5236)
38 6	Statistical clerks (4717)		Cleaning and building service occupations, except
387	Teachers' Jides (4695)		private household
38 9	Administrative support occupations; n.e.c. (4787, 4799)	448	Supervisors, cleaning and building service workers (5024)
		449	Maids and housemen (5242, 5249)
	SERVICE OCCUPATIONS	V (453)	Janitors and cleaners (5244)
	SERVICE OCCUPATIONS	454	Elevator operators (5245)
	Private Household Occupations	455	Pest control occupations (5246)
403	Launderers and ironers (533)		Personal service occupations
404	Cooks, private household (534)	456	Supervisors, personal service occupations (5025)
405	Housekeepers and butlers (535)	457	Barbers (5251)
406	Child care workers, private household (536)	458	Hairdressers and cosmetologists (5252)
T (407)	Private household cleaners and servants (532, 537, 539)	459	Attendants, amusement and recreation facilities
, ,		402	_(5253)
	Protective Service Occupations	<u>463</u> 464	Guides (5254)
-	Supervisors, protective service occupations	465	Ushers (5255) Public transportation attendants (5256)
413	Supervisors, firefighting and fire prevention occupa-	466	Baggage porters and belihops (5258)
	tions (5011)	467	Welfare service sides (5262)
414	Supervisors, police and detectives (5012)	468	Child care workers, except private household (5263)
415	Supervisors, guards (5013)	469	Personal service occupations, n.e.c. (5257, 5269)
	Firefighting and fire prevention occupations		" or sories and vices outcoperioris, " and . (one's , one's)
417)	Fire inspection and fire prevention occupations (5112)		FARMING, FORESTRY, AND FISHING
417	Firefighting occupations (5113)		OCCUPATIONS
5.555	Police and detectives		Farm operators and managers
418	Police and detectives, public service (5122)	W (473)	Farmers, except horticultural (5512-5514)
423	Sheriffs, bailiffs, and other law enforcement officers	474	Horticultural specialty farmers (5515)
	(5124)	475	Managers, farms, except horticultural (5522-5524)
424	Correctional institution officers (5133)	476	Managers, horticultural specialty farms (5525)



Occu- pation code	Occupation category	Occu- pation ∞de	Occupation category
	FARMING, FORESTRY, AND FISHING OCCUPATIONS—Con.		PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS—Con.
	Other agricultural and related occupations		Mechanics and repairers—Con.
<u>.</u>	Farm occupations, except managerial		
477	Supervisors, farm workers (5611)		Mechanics and repairers, except supervisors—Con.
479 483	Farm workers (5612-5617)	2	Miscellaneous mechanics and repairers
484	Marine life cultivation workers (5618) Nursery workers (5619) Related agricultural occupations	53 5	Camera, watch, and musical instrument repairers (6771, 6772)
485	Supervisors, related agricultural occupations	536	Locksmiths and safe repairers (6773)
	(5621)	538	Office machine repairers (6774)
486	Groundskeepers and gardeners, except farm (5622)	539	Mechanical controls and valve repairers (6775)
487	Animal caretakers, except farm (5624)	543	Elevator installers and repairers (6776)
488	Graders and sorters, agricultural products (5625)	544	Millwrights (6778)
489	Inspectors, agricultural products (5627)	547	Specified mechanics and repairers, n.e.c. (6777,
12.52112	Forestry and logging occupations	549	6779)
494	Supervisors, forestry and logging workers (571)	343	Not specified mechanics and repairers
495	Forestry workers, except logging (572)		Construction trades
496	Timber cutting and logging occupations (573, 579)	553	Supervisors, construction occupations Supervisors; brickmasons, stonemasons, and tile
497	Fishers, hunters, and trappers Captains and other officers, fishing vessels (582)	393	setters (6012)
498	Fishers (583)	554	Supervisors, carpenters and related workers (6013)
499	Hunters and trappers (584)	555	Supervisors, electricians and power transmission installers (6014)
	PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS	556	Supervisors; painters, paperhangers, and plasterers (6015)
		557	Supervisors; plumbers, pipefitters, and steamfitters
503	Mechanics and repairers	112	(6016)
503	Supervisors, mechanics and repairers (66) Mechanics and repairers, except supervisors	558	Supervisors, n.e.c. (6011, 6018)
	Vehicle and mobile equipment mechanics and	- · · ·	Construction trades, except supervisors
	repairers	563 564	Brickmasons and stonemasons (6112, 6113)
X (505)	Automobile mechanics (67.11)	304	Brickmason and stonemason apprentices (pt 6112-6113)
506	Automobile mechanic apprentices (pt 6711)	565	Tile setters; hard and soft (6114, pt 6162)
507	Bus, truck, and stationary engine mechanics	566	Carpet installers (pt 6162)
	_(6712)	Y (567)	Carpenters (6122)
508	Aircraft engine mechanics (6713)	569	Carpenter apprentices (pt 6:22)
509 514	Small engine repairers (6714)	573	Drywall instaliers (6124)
515	Automobile body and related repairers (6715) Aircraft mechanics, exc. engine (6716)	575	Electricians (6132)
516	Heavy equipment mechanics (67.17)	576	Electrician apprentices (pt 6132)
517	Farm equipment mechanics (6718)	577	Electrical power installers and repairers (6133)
518	Industrial machinery repairers (673)	579	Painters, construction and maintenance (6142)
519	Machinery maintenance occupations (674)	583 584	Paperi angers (6143) Plasterers (6144)
<u> </u>	Electrical and electronic equipment repairers	585	Plumbers; pipefitters; and steamfitters (6150)
523	Electronic repairers, communications and	587	Plumber, pipefitter, and steamfitter apprentices
FAF	industrial equipment (6751, 6753, 6755)		· (pt 6150)
525 526	Data processing equipment repairers (6754)	58 8	Concrete and terrazzo finishers (6163)
526	Household appliance and power tool repairers	589	Glaziers (6164)
527	(6756)	593	Insulation workers (6165)
529	Telephone line installers and repairers (6757) Telephone installers and repairers (6758)	594	Paving, surfacing, and tamping equipment
533	Miscellaneous electrical and electronic equip-		operators (6166)
	ment repairers (6752, 8759)	595 506	Roofers (6168)
534	Heating, air conditioning, and refrigeration	596 507	Sheetmetal duct installers (6172)
	mechanics (676)	597 598	Structural metal workers (6173) Drillers, earth (6174)



Occu- pation code	Occupation category	Occu- pation	Occupation category
COGC	===::::::::::::::::::::::::::::::::::::	code	
	PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS—Con.		PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS—Con.
	Construction trades—Con		Precision production occupations—Con,
	Construction trades, except supervisors—Con.		
599	Construction trades, n.e.c. (6167, 6175, 6176,	684	Precision workers, assorted materials—Con.
	6179)	004	Miscellaneous precision workers, n.e.c. (7269) Precision food production occupations
	Extractive occupations	68 6	Butchers and meat cutters (7271)
613	Supervisors, extractive occupations (602)	687	Bakers (7272)
614	Drillers, oil well (622)	688	Food batchmakers (7273, 7279)
615	Explosives workers (623)		Precision inspectors, testers, and related workers
616	Mining machine operators (624)	689	Inspectors, testers, and graders (7281)
617	Mining occupations, n.e.c. (626)	693	Adjusters and calibrators (7282)
	Precision production occupations		Plant and system operators
63 3	Supervisors, production occupations (pt 711, 712)	694	Water and sewage treatment plant operators (791)
==:	Precision metal working occupations	69 5	Power plant operators (pt 793)
634	Tool and die makers (7211)	69 6	Stationary engineers (pt 793, 7668)
<u>635</u>	Tool and die maker apprentices (pt 7211)	699	Miscellaneous plant and system operators (792,
6 36	Precision assemblers, metal (7212)		794, 795, 786)
637	Machinists (7213)		
639	Machinist apprentices (pt 7213)		OPERATOR : PARRICHTORS : XEGERES
643	Boilermakers (7214)		OPERATORS, FABRICATORS, AND LABORERS
644	Precision grinders, fitters, and tool sharpeners _(7216)		Machine Operators, Assemblers, and Inspectors
645	Patternmakers and model makers, metal (7217)		
646	Lay-out workers (7221)		Machine operators and tenders, except precision
647	Precious stones and metals workers (jewelers) (7222, 7266)	703	Metalworking and plastic working machine operators Lathe and turning machine set up operators (7312)
649	Engravers, metal (7223)	704	Lathe and turning machine operators (7512)
65 3	Sheet metal workers (7224)	705	Milling and planing machine operators (7313)
654	Sheet metal worker apprentices (pt 7224)		7513)
655	Miscellaneous precision metal workers (7229)	706	Punching and stamping press machine operators
	Precision woodworking occupations		(7314, 7317, 7514, 7517)
6 56	Patternmekers and model makers, wood (7231)	70 7	Rolling machine operators (7316, 7516)
657	Cabinet makers and bench carpenters (7232)	708	Drilling and boring machine operators (7318,
658	Furniture and wood finishers (pt 7234, pt 7756)		7518)
659	Miscellaneous precision woodworkers (pt 7234, 7239)	709	Grinding, abrading, buffing, and polishing machine operators (7322, 7324, 7522)
	Precision textile, apparel, and furnishings machine	713	Forging machine operators (7319, 7519)
	workers	714	Numerical control machine operators (7326)
66 6	Dressmakers (7251, pt 7752)	715	Miscellaneous metal, plastic, stone, and glass
667	Tailors (7252)		working machine operators (7329, 7529)
668	Upholsterers (7253)	717	Fabricating machine operators, n.e.c. (7339, 7539)
669	Shoe repairers (7254)	= = =	Metal and plastic processing machine operators
673	Apparel and fabric patternmakers (pt 7259)	719	Molding and casting machine operators (7315,
674	Miscellaneous precision apparel and fabric workers		7342, 7515, 7542)
	(pt 7259, pt 7752)	723	Metal plating machine operators (7343, 7543)
675	Precision workers, assorted materials	724	Heat treating equipment operators (7344, 7544)
	Hand molders and shapers, except jewelers (7261)	725	Miscellaneous metal and plastic processing machine
676 677	Patternmakers, lay-out workers, and cutters (7262)		operators (7349, 7549)
678	Optical goods workers (7264, pt 7677)	708	Woodworking machine operators
= .::	Dental laboratory and medical appliance tech- nicians (7265)	726	Wood lathe, routing, and planing machine opera- tors (7431, 7432, 7631, 7632)
679	Bookbinders (pt 7249, pt 7449)	727	Sawing machine operators (7433, 7633)
683	Electrical and electronic equipment assemblers (7267)	728	Shaping and joining machine operators (7435, 7635)



Occu- pation code	Occupation category	Occu- pation code	Occupation category
	OPERATORS, FABRICATORS, AND		OPERATORS, FABRICATORS, AND
	LABORERS-Con.		LABORERS-Con.
	Machine Operators, Assemblers, and Inspectors—Con.		Machine operators, Assemblers, and Inspectors—Con.
	Machine operators and tenders, except precision—Con.		Machine operators and tenders, except precision—Cor
	Woodworking machine operators—Con.		Machine operators, assorted materials—Con.
729	Nailing and tacking machine operators (7636)	777	Miscellaneous machine operators, n.e.c. (7479,
733	Miscellaneous woodworking machine operators		7665, pt 7679)
	(7434, 7439, 7634, 7639)	779	Machine operators, not specified
-67	Printing machine operators		Fabricators, assemblers, and hand working occupa-
734	Printing machine operators (7443, 7643)		tions
735	Photoengravers and lithographers (7242, 7444;	783	Welders and cutters (7332, 7532, 7714)
	_7644)	784	Solderers and brazers (7333, 7533, 7717)
73 <u>6</u> 737	Typesetters and compositors (7241, 7442, 7642)	785	Assemblers (772, 774)
3/	Miscellaneous printing machine operators (pt	786 787	Hand cutting and trimming occupations (7753)
	7249, pt 7449, 7649)	787	Hand molding, casting, and forming occupations
738	Textile, apparel, and furnishings machine operators Winding and twisting machine operators (7451,	789	(7754, 7755)
, 00	7651)	703	Hand painting, coating, and decorating occupations (pt.7756)
739	Knitting, looping, taping, and weaving machine	793	Hand engraving and printing occupations (7757)
	operators (7452, 7652)	794	Hand grinding and polishing occupations (7758)
743	Textile cutting machine operators (7654)	795	Miscellaneous hand working occupations (7759)
44	Textile sewing machine operators (7655, pt 7656)	,,,,	Production inspectors, testers, samplers, and weighers
45	Shoe machine operators (pt 7656, pt 7659)	796	Production inspectors, checkers, and examiners (782
47	Pressing machine operators (7657)		<u>- 786; 787)</u>
48	Laundering and dry cleaning machine operators	797	Production testers (783)
	(7255, 7658)	798	Production samplers and weighers (784)
49	Miscellaneous textile machine operators (7453, 7653, pt 7659)	799	Graders and sorters, except agricultural (785)
.= i	Machine operators, assorted materials		Transporting and Managin Marine O
53	Cementing and gluing machine operators (7661)		Transportation and Material Moving Occupations
54	Packaging and filling machine operators (7462,	= -	Motor vehicle operators
	· 7662)	803	Supervisors, motor vehicle operators (6311)
55	Extruding and forming machine operators (7463,	Z (801)	Truck drivers, heavy (6412, 6413)
==	7663).	805	Truck drivers, light (6414)
56	Mixing and blending machine operators (7664)	806	Driver-sales workers (433)
57	Separating, filtering, and clarifying machine	808	Bus drivers (6415)
 E0	operators (7476, 7666, 7676)	809	Taxi cab drivers and chauffeurs (6416)
58	Compressing and compacting machine operators	813 813	Parking lot attendants (6417)
59	(7467, 7667) Painting and paint spraying machine operators	814	Motor transportation occupations, n.e.c. (6419)
33	(7669)		Transportation occupations, except motor vehicles
63	Roasting and baking machine operators, food	823	Rail transportation occupations
	(7472; 7672)	824	Railroad conductors and yardmasters (6313) Locomotive operating occupations (6432)
64	Washing, cleaning, and pickling machine operators	825	Railroad brake, signal, and switch operators (6433
	(7673)	826	Rail vehicle operators, n.e.c. (6439)
65	Folding machine operators (7474, 7674)		Water transportation occupations
56	Furnace, kiln, and oven operators, exc. food (7668, 7671, 7675)	828	Ship captains and mates, except fishing boats (6441, 6442)
68	Crushing and grinding machine operators (7477,	829	Sailors and deckhands (6443)
-	pt 7677).	833	Marine engineers (6444)
59	Slicing and cutting machine operators (7478,	834	Bridge, lock, and lighthouse tenders (6445)
	7678)		Material moving equipment operators
73	Motion picture projectionists (pt 7679)	843	Supervisors, material moving equipment operators
74	Photographic process machine operators (pt		(632)
	7263, pt 7679)	844	Operating engineers (6512)



Occupation category	Occu- pation code	Occupation category
OPERATORS, FABRICATORS, AND LABORERS—Con.		OPERATORS, FABRICATORS, AND LABORERS—Con.
Transportation and Material Moving Occupations—Con.		Handlers, Equipment Cleaners, Helpers, and Laborers—Con.
Material moving equipment operators—Con. Longshore equipment operators (6513) Hoist and winch operators (6514) Crane and tower operators (6515) Excavating and loading machine operators (6516) Grader, dozer, and scraper operators (6517) Industrial truck and tractor equipment operators (6518) Miscellaneous material moving equipment operators (6519, pt 659)	869 873 875 876 877 878 883 883	Production helpers (769, 779) Freight, stock, and material movers, hand Garbage collectors (822) Stevedores (823) Stock handlers and baggers (824) Machine feeders and offbearers (825) Freight, stock, and material movers, hand, n.e.c. (649, 826) Garage and service station related occupations (672)
Handlers, Equipment Cleaners, Helpers, and Laborers		
Supervisors; handlers, equipment cleaners, and laborers, n.e.c. (pt 711) Helpers, mechanics and repairers (679) Helpers, construction and extractive occupations Helpers, construction trades (6191-6195, 6198) Helpers, surveyor (6196)	999	OCCUPATION NOT REPORTED! —— used when not-reported cases are not allocated.
	OPERATORS, FABRICATORS, AND LABORERS—Con. Transportation and Material Moving Occupations—Con. Material moving equipment operators—Con. Longshore equipment operators (6513) Hoist and winch operators (6514) Crane and tower operators (6515) Excavating and loading machine operators (6516) Grader, dozer, and scraper operators (6517) Industrial truck and tractor equipment operators (6518) Miscellaneous material moving equipment operators (6519, pt 659) Handlers, Equipment Cleaners, Helpers, and Laborers Supervisors; handlers, equipment cleaners; and laborers, n.e.c. (pt 711) Helpers, mechanics and repairers (679) Helpers, construction and extractive occupations—Helpers, construction trades (6191-6195, 6198)	Occupation category OPERATORS, FABRICATORS, AND LABORERS—Con. Transportation and Material Moving Occupations—Con. Material moving equipment operators—Con. Longshore equipment operators (6513) Hoist and winch operators (6514) Crane and tower operators (6515) Excavating and loading machine operators (6516) Grader, dozer, and scraper operators (6517) Industrial truck and tractor equipment operators (6518) Miscellaneous material moving equipment operators (6519, pt 659) Handlers, Equipment Cleaners, Helpers, and Laborers Supervisors; handlers, equipment cleaners, and laborers, n.e.c. (pt 711) Helpers, mechanics and repairers (679) Helpers, construction and extractive occupations. Helpers, construction trades (6191-6195, 6198) Helpers, surveyor (6196)

¹ Code used when not-reported cases are not allocated.