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APPENDIX F

TABLES ON YEARS OF SCHOOL COMPLETED
FOR ENGINEERS, 1940, AND AGE AND YEARS
OF SCHOOL COMPLETED FOR ENGINEERS
AND SCIENTISTS, 1950

APPENDIX F

TABLE F-1

Years of School Completed by Employed Engineers and Experienced Engineers Seeking Work, by Field of Specialization, 1940

FIELD OF SPECIALIZATION	TOTAL	HIGH SCHOOL		COLLEGE		NOT REPORTED
		1-3 Years	4 Years	1-3 Years	4 or more Years	
Civil	86,140	9,540	11,180	14,200	51,000	220
Electrical	55,440	8,380	6,760	6,320	33,540	440
Mechanical	82,920	12,400	10,720	10,320	49,120	360
Other ^a	30,980	2,540	2,640	3,680	22,100	20
All engineers	255,480	32,860	31,300	34,520	155,760	1,040

^a Chemical, industrial, and mining and metallurgical.

Source: *Census of Population, 1940, The Labor Force, Occupational Characteristics*, pp. 59-61.

TABLE F-2

Age and Years of Schooling for All Employed Engineers, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	62,680	350	2,165	9,485	16,685	33,995
4 years	80,455	645	4,805	23,665	24,280	27,060
College						
1-3 years	90,130	240	5,460	28,925	27,455	28,050
4 years	206,055	40	14,580	84,475	50,775	56,185
5 or more years	73,010	25	3,660	29,525	20,905	18,895
Not reported	11,125	195	625	3,265	2,920	4,120
Total	523,455	1,495	31,295	179,340	143,020	168,305

Source: Special unpublished tabulations of the Bureau of the Census manpower occupations card file for the Bureau of Labor Statistics and sponsored by the National Science Foundation.

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TABLE F-3

Age and Years of Schooling for Employed Aeronautical Engineers, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	1,020	...	50	295	365	310
4 years	2,245	10	90	1,220	615	310
College						
1-3 years	3,635	...	185	2,005	1,040	405
4 years	7,425	...	560	4,480	1,865	520
5 or more years	3,315	...	260	1,770	995	290
Not reported	210	5	10	110	60	25
Total	17,850	15	1,155	9,880	4,940	1,860

Source: Same as in Table F-2.

TABLE F-4

Age and Years of Schooling for Employed Chemical Engineers, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	1,360	25	95	360	410	470
4 years	1,520	45	115	585	430	345
College						
1-3 years	2,160	25	190	890	605	450
4 years	17,015	...	1,340	9,565	3,775	2,335
5 or more years	8,880	...	415	4,780	2,385	1,300
Not reported	760	5	35	400	195	125
Total	31,695	100	2,190	16,580	7,800	5,025

Source: Same as in Table F-2.

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TABLE F-5

Age and Years of Schooling for Employed Civil Engineers, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	15,160	145	840	2,415	3,895	7,865
4 years	18,090	215	1,510	3,875	5,225	7,265
College						
1-3 years	23,710	70	1,605	5,325	7,155	9,555
4 years	48,380	25	3,115	14,085	12,485	18,670
5 or more years	15,410	10	690	4,550	4,365	5,795
Not reported	1,455	25	110	305	350	665
Total	122,205	490	7,870	30,555	33,475	49,815

Source: Same as in Table F-2.

TABLE F-6

Age and Years of Schooling for Employed Electrical Engineers, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	11,340	40	430	1,790	2,895	6,185
4 years	17,145	120	1,310	5,695	5,005	5,015
College						
1-3 years	17,345	25	1,495	6,265	4,930	4,630
4 years	41,660	5	3,350	16,565	10,390	11,350
5 or more years	14,330	5	945	5,815	4,365	3,400
Not reported	5,330	5	290	1,555	1,600	1,880
Total	107,150	200	7,820	37,485	29,185	32,460

Source: Same as in Table F-2.

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TABLE F-7

Age and Years of Schooling for Employed Industrial Engineers, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	4,855	35	70	610	1,650	2,490
4 years	8,590	35	250	2,990	3,045	2,270
College						
1-3 years	8,530	20	245	2,780	3,390	2,095
4 years	12,415	...	940	5,560	3,510	2,405
5 or more years	4,555	10	160	2,000	1,420	965
Not reported	665	30	55	210	120	250
Total	39,610	130	1,720	14,150	13,135	10,475

Source: Same as in Table F-2.

TABLE F-8

Age and Years of Schooling for Employed Mechanical Engineers, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	17,675	55	415	2,385	4,500	10,320
4 years	17,510	130	735	4,780	5,155	6,710
College						
1-3 years	17,475	50	895	5,840	5,005	5,685
4 years	43,300	5	3,235	19,900	9,145	11,015
5 or more years	12,905	...	710	5,615	3,335	3,245
Not reported	1,395	85	75	370	295	570
Total	110,260	325	6,065	38,890	27,435	37,545

Source: Same as in Table F-2.

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TABLE F-9

Age and Years of Schooling for Employed Metallurgical Engineers and Metallurgists, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	1,110	20	40	255	350	445
4 years	1,675	20	200	630	505	320
College						
1-3 years	1,630	20	115	605	520	370
4 years	4,530	...	175	2,150	1,300	905
5 or more years	2,455	...	70	1,010	840	535
Not reported	245	25	10	55	55	100
Total	11,645	85	610	4,705	3,570	2,675

Source: Same as in Table F-2.

TABLE F-10

Age and Years of Schooling for Employed Mining Engineers, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	1,395	5	55	200	2,525	760
4 years	1,125	5	85	315	375	460
College						
1-3 years	1,090	5	55	325	260	385
4 years	4,805	...	360	2,175	320	1,210
5 or more years	1,800	...	100	755	1,060	480
Not reported	165	5	...	50	465	65
Total	10,380	20	655	3,820	45	3,360

Source: Same as in Table F-2.

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TABLE F-11

Age and Years of Schooling for Employed Engineers Not Elsewhere Classified, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	8,765	25	170	1,175	2,245	5,150
4 years	12,555	65	510	3,575	4,040	4,365
College						
1-3 years	14,555	25	675	4,890	4,490	4,475
4 years	26,525	5	1,505	9,995	7,245	7,775
5 or more years	9,360	...	310	3,430	2,735	2,885
Not reported	900	10	40	210	200	440
Total	72,660	130	3,210	23,275	20,955	25,090

Source: Same as in Table F-2.

TABLE F-12

Age and Years of Schooling for Employed Agricultural Scientists, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	1,270	65	60	265	260	620
4 years	720	25	115	215	185	180
College						
1-3 years	670	15	155	220	75	205
4 years	1,555	...	105	685	385	380
5 or more years	1,705	...	70	660	480	495
Not reported	65	30	15	20
Total	5,985	105	505	2,075	1,400	1,900

Source: Same as in Table F-2.

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TABLE F-13

Age and Years of Schooling for Employed Biological Scientists, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	360	15	25	105	120	95
4 years	365	15	35	110	105	100
College						
1-3 years	730	5	105	285	175	160
4 years	3,090	...	575	1,375	620	520
5 or more years	4,420	...	245	1,930	1,310	935
Not reported	110	...	30	45	10	25
Total	9,075	35	1,015	3,850	2,340	1,835

Source: Same as in Table F-2.

TABLE F-14

Age and Years of Schooling for Employed Chemists, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	6,830	75	650	1,680	1,810	2,615
4 years	9,340	395	1,555	3,540	2,240	1,610
College						
1-3 years	9,930	80	1,690	3,890	2,390	1,880
4 years	26,915	5	3,315	12,055	6,400	5,140
5 or more years	20,035	20	1,060	8,760	6,255	3,940
Not reported	1,905	95	160	705	425	520
Total	74,955	670	8,430	30,630	19,520	15,705

Source: Same as in Table F-2.

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TABLE F-15

Age and Years of Schooling for Employed Geologists and Geophysicists, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	440	25	55	105	110	145
4 years	575	25	105	195	150	100
College						
1-3 years	920	15	135	270	240	260
4 years	4,380	...	420	1,955	1,125	880
5 or more years	3,505	...	165	1,420	1,145	775
Not reported	105	...	5	60	35	5
Total	9,925	65	885	4,005	2,805	2,165

Source: Same as in Table F-2.

TABLE F-16

Age and Years of Schooling for Employed Mathematicians, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	70	10	5	15	10	30
4 years	140	5	30	65	15	25
College						
1-3 years	215	...	45	110	30	30
4 years	490	5	95	270	70	50
5 or more years	560	...	100	255	120	85
Not reported	35	10	...	25
Total	1,510	20	275	725	245	245

Source: Same as in Table F-2.

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TABLE F-17

Age and Years of Schooling for Employed Physicists, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	355	...	25	130	100	100
4 years	560	15	75	280	135	55
College						
1-3 years	515	10	55	280	110	60
4 years	1,710	...	225	965	355	165
5 or more years	3,675	5	235	1,915	1,040	480
Not reported	115	5	5	65	30	10
Total	6,930	35	620	3,635	1,770	870

Source: Same as in Table F-2.

TABLE F-18

Age and Years of Schooling for Employed Miscellaneous Natural Scientists, 1950

YEARS OF SCHOOL COMPLETED	TOTAL EMPLOYED	AGE				45 and Over
		14-19	20-24	25-34	35-44	
High School						
1-3 years	315	10	40	75	80	110
4 years	440	10	65	180	65	120
College						
1-3 years	670	...	25	320	210	115
4 years	805	...	35	400	235	135
5 or more years	835	...	20	425	275	115
Not reported	80	...	25	15	15	25
Total	3,145	20	210	1,415	880	620

Source: Same as in Table F-2.