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APPENDIX E

DISCUSSION OF THE 1/1,000 SAMPLE OF THE U.S. CENSUS OF POPULATION AND HOUSING

The data of this sample are contained on 80-column punch cards and a magnetic tape with 120 alpha-numeric characters for each record. There is a separate card or tape record for each person included in the sample. The sample is self-weighting; universe totals may be obtained by adding three zeroes to the uninflated counts.

Each punch card contains information on the characteristics of a person, his household, family and subfamily, of the associated person, and of the housing unit in which he lives. Availability of the information in this form permits detailed cross-classification of persons by more than seventy economic, social, and demographic characteristics.¹

In this study, persons employed in "agriculture, forestry, and fisheries" were excluded. All other employed persons were cross-classified (into 168 cells) by age, color (white and nonwhite), sex, and years of school completed.

<i>Age Classes</i>	<i>Years of School Completed</i>
14-19	Under 5
20-24	5-8
25-34	9-11
35-44	12
45-54	13-15
55-64	16 and over
65 and over	

Actual annual and hourly earnings and hours per person were computed for each of the 168 age, color, sex, and education cells. The hours

¹For additional information concerning the sample, see U.S. Bureau of the Census, *U.S. Census of Population and Housing: 1960, 1/1,000, 1/10,000, Two National Samples of the Population of the United States, Description and Technical Documentation*, Washington (n.d.).

data are for a single week in April 1960. Earnings and number of weeks worked are for the entire year 1959. Annual hours were estimated for each individual, and then aggregated for the various cells and groups. The following midpoints were applied to the Census data.

Hours		Weeks	
<i>Class</i>	<i>Midpoint</i>	<i>Class</i>	<i>Midpoint</i>
1-14	7.5	Under 14	7.0
15-29	22.0	14-26	20.0
30-34	32.0	27-39	33.0
35-39	37.0	40-47	43.5
40	40.0	48-49	48.5
41-48	44.5	50-52	51.0
49-59	54.0		
60 and over	64.0		

Earnings	
<i>Class</i>	<i>Midpoint</i>
1-999	500
1,000-1,999	1,500
2,000-2,999	2,500
3,000-3,999	3,500
4,000-4,999	4,500
5,000-5,999	5,500
6,000-6,999	6,500
7,000-9,999	8,200
10,000-14,999	12,000
15,000-24,999	18,500
25,000 and over	40,000

Persons with no earnings in 1959 are excluded. This procedure leaves out persons who were only unpaid family workers in 1959, as well as new entrants to the labor force in 1960. Persons who had earnings in 1959 but left the labor force before April 1960 were also omitted. These exclusions are in addition to the exclusions of those unemployed or with a job but not at work in the survey week 1960. The latter two groups could not be included because no information concerning hours is available for them.

National average hourly earnings by color, age, sex, and education for nonagricultural employed persons are presented in Table E-1, and

Table E-2 indicates the sample sizes. Sample sizes are frequently small for 14-to-19-year olds and nonwhites, and the earnings figures for such cells are subject to considerable sampling error. The use of such figures to calculate "expected" and "standardized" earnings for groups, however, does not necessarily introduce any bias into the estimates, and, provided the sample size of the group is not small, the sampling errors of the individual color-age-sex-education cells are unimportant.

TABLE E-1
Average Hourly Earnings of Nonagricultural Employed Persons,
by Color, Age, Sex, and Education, 1959

Age	Years of School Completed						Total
	0-4	5-8	9-11	12	13-15	16 and Over	
White males							
14-19	0.98 ^a	1.51	1.45	1.40	1.61	^b	1.44
20-24	1.48 ^a	1.71	1.77	1.90	2.09	2.26	1.90
25-34	1.78	2.18	2.41	2.57	2.79	3.30	2.62
35-44	2.00	2.43	2.76	3.02	3.50	4.69	3.13
45-54	1.95	2.54	2.78	3.16	4.03	5.33	3.18
55-64	2.11	2.50	2.90	3.34	4.17	5.14	3.04
65 and over	1.90	2.26	2.84	3.72	3.62	5.15	2.92
Total	1.95	2.40	2.58	2.78	3.33	4.31	2.87
White females							
14-19	1.11 ^a	1.35	1.53	1.28	1.26	0.74 ^a	1.35
20-24	1.47 ^a	1.20	1.44	1.54	1.66	2.13	1.57
25-34	1.46 ^a	1.37	1.61	1.78	2.02	2.55	1.82
35-44	1.40 ^a	1.44	1.58	1.88	2.09	2.77	1.81
45-54	1.18 ^a	1.43	1.65	1.83	2.20	3.01	1.85
55-64	1.35	1.46	1.54	1.88	2.26	3.06	1.81
65 and over	1.22 ^a	1.12	1.57	1.82	1.59	2.64	1.52
Total	1.31	1.41	1.58	1.74	2.02	2.77	1.76
Nonwhite males							
14-19	0.73 ^a	1.22	1.00	1.04	2.78	^b	1.09
20-24	1.29 ^a	1.15	1.35	1.37	1.30 ^a	2.48 ^a	1.30
25-34	1.36	1.66	1.84	2.00	2.03	2.36	1.84
35-44	1.49	1.85	2.13	2.35	2.25	3.65	2.06
45-54	1.59	1.79	1.99	2.34	2.24 ^a	3.13 ^a	1.90
55-64	1.37	2.04	2.29 ^a	1.77 ^a	2.13 ^a	2.30 ^a	1.82
65 and over	1.50 ^a	1.61 ^a	1.47 ^a	1.85 ^a	2.43 ^a	1.80 ^a	1.60
Total	1.46	1.74	1.88	2.00	2.04	2.87	1.83

(continued)

TABLE E-1 (continued)

Age	Years of School Completed						Total
	0-4	5-8	9-11	12	13-15	16 and Over	
Nonwhite females							
14-19	1.36 ^a	1.08 ^a	1.10	1.44 ^a	2.00 ^a	^b	1.23
20-24	0.72 ^a	0.61 ^a	1.06	1.33	1.43 ^a	1.97 ^a	1.15
25-34	0.94 ^a	1.01	1.32	1.35	1.59	2.35 ^a	1.35
35-44	0.77 ^a	1.01	1.16	1.42	1.61 ^a	2.66 ^a	1.25
45-54	0.66	0.86	0.93	1.36	1.70 ^a	2.70 ^a	1.03
55-64	0.81	1.03	1.14 ^a	1.01 ^a	1.34 ^a	2.76 ^a	1.08
65 and over	0.62 ^a	1.19 ^a	0.77 ^a	1.47 ^a	1.72 ^a	3.04 ^a	1.05
Total	0.74	0.96	1.15	1.36	1.58	2.53	1.20
Males							
14-19	0.92 ^a	1.46	1.42	1.38	1.63	^b	1.41
20-24	1.42	1.58	1.72	1.87	2.05	2.26	1.84
25-34	1.63	2.11	2.36	2.53	2.75	3.26	2.56
35-44	1.81	2.36	2.71	2.99	3.45	4.66	3.04
45-54	1.82	2.47	2.74	3.13	3.99	5.29	3.09
55-64	1.91	2.47	2.88	3.30	4.13	5.10	2.96
65 and over	1.83	2.21	2.76	3.66	3.58	5.08	2.83
Total	1.80	2.32	2.52	2.74	3.28	4.27	2.79
Females							
14-19	1.14 ^a	1.29	1.48	1.28	1.31	0.74 ^a	1.34
20-24	1.25 ^a	1.04	1.37	1.53	1.64	2.12	1.54
25-34	1.27 ^a	1.27	1.55	1.73	1.95	2.53	1.74
35-44	1.16	1.33	1.52	1.81	2.06	2.76	1.74
45-54	0.94	1.34	1.59	1.81	2.19	3.00	1.77
55-64	1.15	1.41	1.51	1.86	2.24	3.05	1.75
65 and over	1.06	1.13	1.50	1.81	1.59	2.66	1.49
Total	1.09	1.32	1.53	1.72	1.99	2.75	1.70
Whites							
14-19	1.02 ^a	1.48	1.48	1.34	1.43	0.74 ^a	1.40
20-24	1.48	1.62	1.70	1.75	1.92	2.21	1.78
25-34	1.74	2.06	2.25	2.37	2.64	3.19	2.46
35-44	1.91	2.22	2.48	2.66	3.19	4.40	2.81
45-54	1.79	2.28	2.47	2.71	3.44	4.72	2.80
55-64	1.97	2.26	2.50	2.82	3.53	4.52	2.70
65 and over	1.77	2.00	2.50	3.20	2.96	4.55	2.58
Total	1.84	2.18	2.33	2.44	2.97	4.00	2.58
Nonwhites							
14-19	0.82 ^a	1.18	1.05	1.19 ^a	2.15 ^a	^b	1.14
20-24	1.13 ^a	1.04	1.25	1.36	1.36	2.15 ^a	1.25
25-34	1.31	1.46	1.64	1.75	1.84	2.36	1.67
35-44	1.38	1.53	1.79	1.97	2.03	3.26	1.77
45-54	1.33	1.46	1.58	1.95	2.05 ^a	2.92 ^a	1.59
55-64	1.22	1.67	1.79	1.50 ^a	1.83 ^a	2.56 ^a	1.57
65 and over	1.27	1.50	1.22 ^a	1.76 ^a	2.25 ^a	2.35 ^a	1.45
Total	1.30	1.47	1.61	1.75	1.85	2.73	1.61

(continued)

TABLE E-1 (concluded)

Age	Years of School Completed						Total
	0-4	5-8	9-11	12	13-15	16 and Over	
Total							
14-19	0.97 ^a	1.43	1.44	1.33	1.46	0.74 ^a	1.38
20-24	1.37	1.48	1.64	1.73	1.89	2.21	1.73
25-34	1.59	1.97	2.18	2.32	2.58	3.15	2.38
35-44	1.71	2.11	2.41	2.62	3.14	4.35	2.72
45-54	1.61	2.19	2.41	2.67	3.40	4.67	2.71
55-64	1.76	2.21	2.47	2.78	3.49	4.47	2.62
65 and over	1.67	1.97	2.42	3.15	2.94	4.49	2.50
Total	1.66	2.09	2.26	2.40	2.92	3.96	2.50

Source: *U.S. Censuses of Population and Housing: 1960, 111,000 Sample.*

^a Based on fewer than fifty observations.

^b No observations.

TABLE E-2

Number of Nonagricultural Employed Persons, by Color, Age, Sex, and Education, 1959

Age	Years of School Completed						Total
	0-4	5-8	9-11	12	13-15	16 and Over	
White Males							
14-19	17	302	834	436	77	0	1,666
20-24	35	337	631	1,184	510	222	2,919
25-34	140	1,225	1,680	2,534	1,001	1,356	7,936
35-44	213	1,746	2,032	2,661	983	1,214	8,849
45-54	250	2,402	1,608	1,578	684	772	7,294
55-64	328	1,981	840	622	407	350	4,528
65 and over	179	625	201	207	112	139	1,463
Total	1,162	8,618	7,826	9,222	3,774	4,053	34,655
White Females							
14-19	10	93	509	519	88	1	1,220
20-24	22	94	257	948	366	155	1,842
25-34	24	285	603	1,220	342	321	2,795
35-44	49	637	855	1,570	403	328	3,842
45-54	72	941	782	1,052	445	386	3,678
55-64	84	734	412	437	260	206	2,133
65 and over	48	246	94	98	64	54	604
Total	309	3,030	3,512	5,844	1,968	1,451	16,114

(continued)

TABLE E-2 (concluded)

Age	Years of School Completed						Total
	0-4	5-8	9-11	12	13-15	16 and Over	
Nonwhite Males							
14-19	4	60	62	26	2	0	154
20-24	22	105	94	98	27	6	352
25-34	79	217	197	196	67	58	814
35-44	129	295	205	146	47	37	859
45-54	155	274	108	70	21	20	648
55-64	124	155	38	22	9	6	354
65 and over	47	42	12	6	3	3	113
Total	560	1,148	716	564	176	130	3,294
Nonwhite Females							
14-19	3	29	57	23	3	0	115
20-24	8	35	63	73	29	11	219
25-34	15	119	156	146	50	37	523
35-44	34	230	147	115	27	29	582
45-54	75	200	83	59	15	22	454
55-64	54	118	30	16	4	12	234
65 and over	20	24	7	2	2	2	57
Total	209	755	543	434	130	113	2,184

Source: Same as Table E-1.