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APPENDIX I

DETAILED INDUSTRY DATA AND SOURCES

Table I-1 presents actual and expected hourly earnings and sample size for the detailed industries analyzed in Chapter 6. Table I-2 presents the other variables used in the interindustry regressions.

The derivation of actual and expected hourly earnings (X_0 and X_1) and of the two location variables is explained in Chapter 6 and Appendix E.

The unionization variable (X_2) was derived from Leonard W. Weiss, Appendix to "Concentration and Labor Earnings," *American Economic Review*, March 1966, Table A-2, with modifications; and H. G. Lewis, *Unionism and Relative Wages in the United States*, Chicago, 1963, Table 76, with modifications.

The per cent of production workers in establishments with more than half of production workers covered by collective bargaining agreements was adjusted to include nonproduction workers, on the assumption that none of the latter are covered. Information on the number of production workers as a per cent of all employed persons was derived from the *Census of Manufactures and Mineral Industries*, except for construction, transportation, communications, and public utilities, which were from *Census of Population* data on occupation by industry.

From the Lewis' data on union membership as a per cent of persons engaged in production, the number of union members was derived and divided by the 1/1,000 sample employment.¹ The number of union barbers was taken from Leo Troy.² For industries where Lewis provided insufficient detail, it was assumed that the per cent unionized in any detailed industry was the same as for the industry group of which it was a

¹ Despite the differences in year and concept (Lewis' data are for 1953), comparisons with Weiss' series where possible revealed little systematic difference, although individual industries differed significantly.

² *Trade Union Membership, 1897-1962*, New York, NBER, Occasional Paper 92, 1965.

TABLE I-1

Actual and Expected Hourly Earnings, by Detailed Industry, 1959

Code	Industry Title	No. of Persons in Sample	Hourly Earnings (dollars)		
			Actual	Expected	Ratio of Actual to Expected
MINING					
126	Metal mining	72	2.73	2.64	1.03
136	Coal mining	187	2.96	2.44	1.21
146	Crude pet. & nat. gas extrac.	232	3.05	2.76	1.11
156	Nonmetall. mining & quarrying, ex- cept fuel	89	2.46	2.52	.98
196	CONSTRUCTION	3,625	2.87	2.58	1.11
MANUFACTURING— <i>Durable goods</i>					
206	Logging	140	2.05	2.29	.89
207	Sawmills, planing mills, & mill work	413	1.94	2.31	.84
208	Misc. wood prod.	88	2.09	2.35	.89
209	Furniture & fixtures	359	2.17	2.32	.93
216	Glass & glass prod.	152	2.76	2.47	1.12
217	Cement, & concrete, gypsum & plaster products	174	2.72	2.58	1.05
218	Structural clay products	92	2.54	2.47	1.03
219	Pottery & related products	34	2.35	2.45	.96
236	Misc. nonmetall. mineral & stone prod.	105	2.71	2.51	1.08
237	Blast furnaces, steel works, rolling & finishing mills	570	3.39	2.57	1.32
238	Other primary iron and steel indus- tries	313	2.80	2.45	1.14
239	Primary nonferrous industries	297	2.98	2.63	1.13
246	Cutlery, hand tools, & other hard- ware	143	2.48	2.39	1.04
247	Fabricated structural metal prod.	327	2.93	2.59	1.14
248	Misc. fabricated metal prod.	821	2.80	2.52	1.11
249	Not specified metal industries	5	2.07	2.63	.79

(continued)

TABLE I-1 (continued)

Code	Industry Title	No. of Persons in Sample	Hourly Earnings (dollars)		
			Actual	Expected	Ratio of Actual to Expected
256	Farm machinery & equip.	116	2.80	2.72	1.03
257	Office, computing, & accounting machines	170	3.05	2.65	1.15
258	Misc. machinery	1,303	2.85	2.67	1.07
259	Electrical machinery, equip., & sup- plies	1,428	2.80	2.49	1.12
267	Motor vehicles & motor veh. equip.	793	3.05	2.56	1.19
268	Aircraft & parts	675	3.01	2.74	1.10
269	Ship & boat building & repairing	256	2.73	2.61	1.05
276	Railroad & misc. transport. equip.	63	2.43	2.39	1.02
286	Professional equip. & supplies	230	2.96	2.63	1.12
287	Photographic equip. & supplies	59	3.32	2.64	1.26
289	Watches, clocks, & clockwork-op- erated devices	33	2.83	2.14	1.33
296	Misc. manufacturing industries	368	2.45	2.27	1.08
MANUFACTURING — <i>nondurable goods</i>					
306	Meat products	287	2.42	2.33	1.04
307	Dairy products	298	2.32	2.64	.88
308	Canning & preserving fruits, vege- tables, & sea foods	185	2.20	2.33	.95
309	Grain-mill products	142	2.42	2.44	.99
316	Bakery products	322	2.35	2.39	.98
317	Confectionery & rel. prod.	80	2.16	1.87	1.16
318	Beverage industries	207	2.78	2.55	1.09
319	Misc. food preparations & kindred prod.	132	2.54	2.42	1.05
326	Not specified food industries	24	3.15	2.51	1.25
329	Tobacco manufactures	95	2.18	2.00	1.09
346	Knitting mills	176	1.67	1.96	.85
347	Dyeing & finishing textiles, exc. wool & knit goods	52	1.83	2.29	.80

(continued)

TABLE I-1 (continued)

Code	Industry Title	No. of Persons in Sample	Hourly Earnings (dollars)		
			Actual	Expected	Ratio of Actual to Expected
348	Floor covering, exc. hard surface	34	2.67	2.56	1.04
349	Yarn, thread, & fabric mills	559	1.82	2.11	.86
356	Misc. textile mill products	45	2.77	2.39	1.16
359	Apparel & accessories	995	2.17	1.89	1.15
367	Misc. fabricated textile prod.	98	2.10	2.15	.98
386	Pulp, paper, & paperboard mills	281	2.72	2.58	1.05
387	Paperboard containers & boxes	174	2.55	2.40	1.06
389	Misc. paper & pulp prod.	134	2.30	2.24	1.02
396	Newspaper publishing & printing	464	3.02	2.69	1.12
398	Printing, publishing, & allied ind., exc. newspapers	589	2.76	2.46	1.12
406	Synthetic fibers	49	2.84	2.80	1.01
407	Drugs & medicines	105	2.93	2.99	.98
408	Paints, varnishes, & rel. prod.	75	3.01	2.59	1.16
409	Misc. chemicals & allied prod.	563	3.12	2.76	1.13
416	Petroleum refining	245	3.41	2.90	1.17
419	Misc. petroleum & coal prod.	27	2.93	2.81	1.04
426	Rubber products	259	2.88	2.48	1.16
429	Misc. plastic products	108	2.77	2.51	1.10
436	Leather: tanned, curried, & finished	31	2.40	2.23	1.08
437	Footwear, exc. rubber	286	1.97	1.98	.99
438	Leather prod., exc. footwear	70	1.93	2.08	.93
459	Not specified manufacturing indus.	55	3.39	2.51	1.35

(continued)

TABLE I-1 (continued)

Code	Industry Title	No. of Persons in Sample	Hourly Earnings (dollars)		
			Actual	Expected	Ratio of Actual to Expected
TRANSPORTATION, COMMUNICATIONS & OTHER PUBLIC UTILITIES					
506	Railroads & railway express serv.	941	2.78	2.64	1.05
507	Street railways & bus lines	291	2.36	2.60	.91
508	Taxicab serv.	117	1.42	2.47	.57
509	Trucking serv.	732	2.62	2.48	1.06
516	Warehousing & storage	116	2.67	2.47	1.08
517	Water transportation	199	3.26	2.52	1.30
518	Air transportation	205	3.22	2.70	1.19
519	Petrol. & gasoline pipe lines	24	3.59	2.93	1.23
526	Services incidental to transport	63	3.00	2.52	1.19
536	Radio broadcasting & TV	88	3.81	2.85	1.33
538	Telephone (wire & radio)	654	2.55	2.21	1.16
539	Telegraph (wire & radio)	34	2.37	2.07	1.15
567	Electric light & power	354	2.72	2.68	1.02
568	Gas & steam supply systems	140	2.81	2.52	1.11
569	Electric-gas utilities	134	2.91	2.63	1.11
576	Water supply	106	2.15	2.54	.85
578	Sanitary services	146	2.03	2.38	.85
579	Other & not specified utilities	22	2.35	2.93	.80
WHOLESALE & RETAIL TRADE					
606	Motor vehicles & equip.	109	2.57	2.80	.92
607	Drugs, chemicals, & allied prod.	95	2.93	2.82	1.04
608	Dry goods & apparel	65	2.81	2.71	1.04
609	Food & rel. prod.	418	2.52	2.58	.97
616	Farm prod.—raw materials	120	2.00	2.65	.75
617	Elec. goods, hardware, & plumbing equip.	223	2.92	2.78	1.05
618	Machinery, equip., & supplies	252	3.24	2.84	1.14
619	Petroleum prod.	163	3.01	2.81	1.07

(continued)

TABLE I-1 (continued)

Code	Industry Title	No. of Persons in Sample	Hourly Earnings (dollars)		
			Actual	Expected	Ratio of Actual to Expected
626	Misc. wholesale trade	565	3.07	2.66	1.16
629	Not specified wholesale trade	98	3.52	2.80	1.26
636	Food stores, exc. dairy prod.	1,472	1.85	2.29	.81
637	Dairy prod. stores & milk retailing	54	1.79	2.52	.71
638	General merchandise retailing	1,111	2.07	2.18	.95
639	Limited price variety stores	269	1.65	1.95	.85
646	Apparel & access, stores, exc. shoe stores	504	2.16	2.25	.96
647	Shoe stores	96	2.54	2.56	.99
648	Furniture & housefurn. stores	285	2.45	2.65	.93
649	Household appliances, TV, & radio stores	183	2.38	2.71	.88
656	Motor vehicles & access. retailing	751	2.29	2.64	.87
657	Gasoline service stations	552	1.60	2.41	.67
658	Drug stores	327	2.28	2.76	.83
659	Eating & drinking places	1,563	1.52	2.08	.73
666	Hardware & farm equip. stores	237	1.94	2.62	.74
676	Lumber & build. mat. retailing	350	2.26	2.59	.87
678	Liquor stores	85	1.83	2.69	.68
679	Retail florists	59	1.83	2.34	.78
686	Jewelry stores	83	2.39	2.65	.90
687	Fuel & ice dealers	123	2.25	2.54	.88
689	Misc. retail stores	381	2.17	2.57	.84
696	Not specified retail trade	92	2.10	2.45	.86
FINANCE, INSURANCE, & REAL ESTATE					
706	Banking & credit agencies	915	2.69	2.42	1.11
716	Security & commod. brokerage & invest. companies	137	4.37	3.03	1.44
726	Insurance	1,036	2.93	2.69	1.09
736	Real estate (inc. real est.-ins.-law offices)	529	2.87	2.74	1.05

(continued)

TABLE I-1 (continued)

Code	Industry Title	No. of Persons in Sample	Hourly Earnings (dollars)		
			Actual	Expected	Ratio of Actual to Expected
BUSINESS & REPAIR SERVICES					
806	Advertising	122	3.48	2.55	1.37
807	Misc. business services	588	2.76	2.61	1.06
808	Automob. repair serv. & garages	484	1.91	2.47	.77
809	Misc. repair services	315	2.37	2.63	.90
PERSONAL SERVICES					
816	Private households	1,635	.84	1.29	.65
826	Hotels and lodging places	493	1.44	2.12	.68
828	Laundering, cleaning, & dyeing serv.	591	1.69	2.03	.83
829	Dressmaking shops	33	1.40	1.75	.80
836	Shoe repair shops	33	1.44	2.39	.60
838	Barber & beauty shops	449	1.65	2.11	.78
839	Misc. personal services	106	2.63	2.85	.92
ENTERTAINMENT & RECREATION SERVICES					
846	Motion pictures & theaters	177	2.79	2.57	1.09
848	Bowling alleys, & billiard & pool parlors	75	1.54	2.24	.69
849	Misc. entertainment & recreation serv.	242	2.14	2.33	.92
PROFESSIONAL & RELATED SERVICES					
867	Medical & other health serv., exc. hospitals	813	3.68	3.01	1.22
868	Hospitals	1,548	1.80	2.05	.88
869	Legal services	255	4.72	3.71	1.27
876	Educational services	3,090	2.58	2.85	.91
879	Welfare & religious services	539	1.64	3.19	.52
888	Nonprofit membership organiza- tions	223	2.54	2.55	1.00

(continued)

TABLE I-1 (concluded)

Code	Industry Title	No. of Persons in Sample	Hourly Earnings (dollars)		
			Actual	Expected	Ratio of Actual to Expected
896	Engineering & architectural services	178	3.63	3.35	1.08
897	Accounting, auditing, & bookkeep. serv.	163	3.31	3.25	1.02
898	Misc. profess. & rel. services	109	3.53	3.09	1.14
PUBLIC ADMINISTRATION					
906	Postal service	565	2.58	2.78	.93
916	Federal public admin.	1,130	2.78	2.76	1.01
926	State public admin.	388	2.35	2.74	.86
936	Local public admin.	929	2.21	2.65	.83
999	INDUSTRY NOT REPORTED	2,318	2.35	2.29	1.03

Note: See Note to Table 46.

part. The final estimates of all industries were submitted to Lewis for review and modified in accordance with his suggestions.

The establishment size variable (X_5) was derived, for the Industry sector, from Leonard W. Weiss, Appendix to "Concentration and Labor Earnings," *American Economic Review*, March 1966, Table A-2. Service sector data for this variable were from U.S. Bureau of Employment Security, *Employment and Wages*, First Quarter 1960, Table B-1; 1958 *Census of Business*, Retail Trade—Vol. I, Tables 2 and 3A; Wholesale Trade—Vol. III, Tables 1A and 2F; Selected Services—Vol. V, Table 3B; 1960 *Census of Population* 1/1,000 sample. The percentage of employees in establishments of 250 or more employees was not taken directly from the BES data for several reasons. The total number of employees was not used because (1) it does not include proprietors; (2) coverage in the 0-3 size class is incomplete because some state unemployment insurance laws exclude firms with less than four workers. In addition, the figures on the number of employees in establishment sizes of 250 and more were adjusted wherever possible because the BES, while generally using the establishment as the reporting unit, in some cases allows employers to group establishments into one reporting unit (see p. 144 of *Employment and Wages*, First Quarter 1960).

TABLE I-2
Industry Independent Variables, X_2 Through X_9

Industry Code ^a	Union-ization, X_2 (per cent)	Region and City Size, X_3 (dollars)	Location in SMSA, X_4 (dollars)	Establishment Size, X_5 (per cent)	Employment Growth, X_6 (ratio of 1960 to 1950)	Unemployment Rate, X_7 (per cent)	Annual Hours, X_8 (hundreds of hours)	Self Employment, X_9 (per cent)
126	71.0	2.28	2.49	60.0	1.026	5.0	18.58	3.06
136	75.0	2.13	2.50	39.0	3.302	9.2	15.57	9.19
146	8.0	2.22	2.49	30.0	1.089	5.0	22.12	18.14
156	24.0	2.27	2.50	12.0	1.106	4.8	21.01	4.63
196	58.0	2.45	2.50	9.0	1.104	9.9	17.98	23.87
206	25.0	2.15	2.50	7.0	0.978	10.7	15.16	40.65
207	20.0	2.24	2.50	22.0	0.715	5.5	18.24	4.59
208	20.0	2.30	2.51	16.0	0.958	5.5	19.79	9.13
209	29.0	2.43	2.49	35.0	1.143	4.6	19.68	6.81
216	57.0	2.48	2.49	79.0	1.163	4.1	19.43	0.01
217	37.0	2.42	2.50	18.0	1.633	4.5	21.02	12.88
218	39.0	2.37	2.50	24.0	1.049	5.1	20.11	14.78
219	35.0	2.38	2.49	56.0	0.797	4.0	20.55	3.04
236	45.0	2.49	2.51	48.0	1.523	3.5	19.57	5.65
237	80.0	2.62	2.50	98.0	0.929	3.6	16.62	1.04

238	68.0	2.53	2.50	56.0	1.027	5.5	19.20	2.64
239	68.0	2.49	2.50	70.0	1.351	4.1	19.35	3.16
246	46.0	2.52	2.51	57.0	1.086	4.1	20.84	1.13
247	53.0	2.57	2.52	39.0	1.309	5.3	19.72	7.18
248	58.0	2.61	2.50	57.0	1.784	4.1	20.20	4.27
256	65.0	2.51	2.50	68.0	0.737	4.4	19.61	0.86
257	28.0	2.60	2.53	92.0	1.636	2.0	20.37	2.51
258	49.0	2.57	2.51	58.0	1.303	3.4	20.62	6.83
259	52.0	2.61	2.50	90.0	1.727	3.0	20.07	2.44
267	71.0	2.65	2.52	90.0	0.983	5.8	19.34	1.03
268	49.0	2.67	2.50	94.0	2.531	4.5	20.81	0.53
269	59.0	2.49	2.51	76.0	1.517	9.9	19.04	2.76
276	40.0	2.55	2.50	63.0	1.235	8.4	17.28	3.73
286	35.0	2.64	2.50	75.0	2.219	2.6	20.52	8.74
287	27.0	2.50	2.54	82.0	1.369	2.2	20.61	0.01
289	69.0	2.46	2.47	86.0	0.843	5.0	21.06	24.69
306	64.0	2.47	2.49	52.0	1.153	4.2	21.18	4.92
307	27.0	2.42	2.50	21.0	1.518	2.2	23.06	6.48
308	59.0	2.43	2.50	33.0	1.327	12.8	19.74	8.20
309	51.0	2.39	2.52	33.0	1.212	3.3	21.85	4.26
316	29.0	2.56	2.48	31.0	1.330	3.4	22.89	8.45
317	41.0	2.65	2.49	57.0	0.997	5.6	20.04	3.73
318	38.0	2.48	2.52	40.0	1.035	4.1	20.32	12.51
319	51.0	2.50	2.49	27.0	1.242	5.4	20.89	6.52
329	53.0	2.35	2.52	79.0	0.914	7.4	19.55	0.49

(continued)

TABLE I-2 (continued)

Industry Code ^a	Union-ization, X_2 (per cent)	Region and City Size, X_3 (dollars)	Location in SMSA, X_4 (dollars)	Establishment Size, X_5 (per cent)	Employment Growth, X_6 (ratio of 1960 to 1950)	Unemployment Rate, X_7 (per cent)	Annual Hours, X_8 (hundreds of hours)	Self Employment, X_9 (per cent)
346	28.0	2.27	2.50	45.0	1.029	4.2	20.07	1.65
347	42.0	2.29	2.48	62.0	4.757	7.9	20.59	0.51
348	53.0	2.34	2.50	82.0	0.638	3.7	21.15	4.63
349	21.0	2.18	2.50	76.0	0.667	3.8	20.17	3.73
356	34.0	2.53	2.49	48.0	0.950	4.6	20.53	0.58
359	55.0	2.45	2.48	28.0	1.068	6.8	19.66	9.35
367	28.0	2.60	2.50	16.0	1.311	5.3	21.47	8.01
386	53.0	2.31	2.50	78.0	1.268	2.4	21.13	0.32
387	35.0	2.58	2.51	39.0	1.417	3.4	19.99	2.60
389	40.0	2.54	2.49	44.0	1.045	2.7	21.13	0.76
396	47.0	2.55	2.50	56.0	1.300	2.3	13.05	9.09
398	38.0	2.64	2.50	34.0	1.339	2.5	20.07	9.30
406	54.0	2.18	2.49	99.0	1.081	2.4	20.36	1.54
407	18.0	2.65	2.52	71.0	1.950	1.5	21.98	2.94
408	40.0	2.66	2.52	24.0	1.165	2.8	20.67	2.85

409	46.0	2.50	2.50	2.50	62.0	1.341	2.7	20.07	2.69
416	65.0	2.53	2.50	2.50	87.0	0.984	2.0	20.39	1.53
419	64.0	2.67	2.50	2.50	20.0	1.351	4.4	20.30	6.76
426	63.0	2.52	2.51	2.51	81.0	1.119	3.2	19.99	0.18
429	40.0	2.64	2.50	2.50	32.0	1.901	2.6	20.78	11.58
436	50.0	2.46	2.50	2.50	41.0	0.671	5.5	18.49	0.01
437	39.0	2.39	2.49	2.49	65.0	0.942	5.4	18.11	2.64
438	36.0	2.60	2.47	2.47	27.0	0.871	6.8	17.53	0.01
506	83.0	2.49	2.51	2.51	98.0	0.677	3.7	20.46	2.37
507	62.0	2.58	2.49	2.49	48.0	0.888	1.7	19.30	3.37
508	27.0	2.57	2.46	2.46	31.0	0.776	4.8	22.59	15.24
509	69.0	2.48	2.52	2.52	20.0	1.328	5.1	21.32	12.99
516	55.0	2.48	2.51	2.51	9.0	1.169	6.0	19.92	7.58
517	72.0	2.55	2.50	2.50	69.0	0.902	11.3	19.00	9.01
518	51.0	2.62	2.53	2.53	74.0	1.958	2.7	19.91	6.98
519	52.0	2.23	2.47	2.47	37.0	1.078	3.1	20.78	3.66
526	61.0	2.59	2.49	2.49	10.0	1.454	3.6	20.25	23.06
536	52.0	2.52	2.51	2.51	21.0	1.457	3.1	20.49	18.72
538	68.0	2.53	2.51	2.51	84.0	1.148	1.0	20.18	0.73
539	68.0	2.64	2.50	2.50	74.0	0.828	4.3	20.03	0.01
567	10.0	2.44	2.52	2.52	71.4	1.072	1.6	20.93	0.40
568	41.0	2.50	2.50	2.50	70.0	1.286	2.1	21.13	5.10
569	41.0	2.59	2.53	2.53	87.0	1.072	1.6	20.58	0.91
576	0.1	2.49	2.48	2.48	15.0	1.317	2.0	20.74	0.74
578	0.1	2.57	2.47	2.47	0.1	1.386	3.5	19.19	5.92

(continued)

TABLE I-2 (continued)

Industry Code ^a	Union-ization, X_2 (per cent)	Region and City Size, X_3 (dollars)	Location in SMSA, X_4 (dollars)	Establishment Size, X_5 (per cent)	Employment Growth, X_6 (ratio of 1960 to 1950)	Unemployment Rate, X_7 (per cent)	Annual Hours, X_8 (hundreds of hours)	Self Employment, X_9 (per cent)
906	0.1	2.53	2.49	75.8	1.210	2.5	20.61	1.63
606	4.0	2.54	2.50	10.2	2.076	2.2	22.89	21.93
607	4.0	2.62	2.50	13.4	1.171	2.2	21.38	13.27
608	4.0	2.64	2.48	6.8	0.650	3.2	20.61	24.74
609	4.0	2.46	2.51	7.3	0.790	3.9	21.98	25.17
616	4.0	2.29	2.50	4.6	1.089	3.0	22.47	20.67
617	4.0	2.55	2.51	22.9	1.350	2.3	21.30	9.03
618	4.0	2.56	2.53	11.2	1.827	1.9	21.75	16.45
619	4.0	2.45	2.53	11.9	1.065	1.8	22.84	14.05
626	4.0	2.56	2.51	11.9	1.198	3.6	20.90	16.93
636	11.0	2.45	2.48	1.8	1.014	3.3	19.60	28.20
637	11.0	2.43	2.50	0.1	1.014	3.3	22.75	21.47
638	11.0	2.55	2.49	59.1	1.263	3.9	20.32	11.35
639	11.0	2.47	2.50	13.4	1.578	4.2	20.55	18.12
646	11.0	2.54	2.48	10.2	1.010	3.6	20.08	34.63

647	11.0	2.53	2.48	0.8	1.255	2.8	20.10	26.24
648	11.0	2.49	2.49	2.1	1.074	3.3	22.21	36.10
649	11.0	2.45	2.51	2.0	0.836	3.0	22.04	28.13
656	11.0	2.41	2.50	0.9	1.506	2.8	23.30	24.07
657	11.0	2.38	2.50	0.1	1.383	4.0	22.87	45.64
658	11.0	2.47	2.47	0.8	1.272	2.8	19.07	36.06
659	11.0	2.42	2.48	2.1	1.065	6.9	21.32	35.29
666	11.0	2.31	2.49	0.7	1.066	1.9	23.51	33.73
676	11.0	2.41	2.51	0.8	1.118	4.0	21.16	20.98
678	11.0	2.51	2.48	0.1	1.060	3.3	22.05	47.83
679	11.0	2.50	2.49	0.1	1.239	3.3	20.34	33.57
686	11.0	2.49	2.50	0.8	0.847	2.5	21.40	46.93
687	11.0	2.42	2.48	1.0	0.774	4.8	21.97	27.82
689	11.0	2.50	2.48	0.3	1.149	2.9	20.95	36.41
706	0.1	2.54	2.49	35.0	1.636	1.2	20.54	5.67
716	3.0	2.62	2.50	22.9	1.663	1.5	20.35	24.68
726	2.3	2.56	2.51	35.9	1.415	1.1	22.10	19.09
736	11.0	2.60	2.47	35.4	1.115	3.0	20.31	41.86
806	0.1	2.69	2.50	25.4	1.162	3.3	19.27	29.33
807	0.1	2.63	2.50	21.6	2.568	3.9	19.78	18.56
808	5.5	2.44	2.50	0.3	0.771	4.3	21.46	33.15
809	0.1	2.44	2.50	0.9	1.192	3.9	19.73	36.32
816	0.1	2.40	2.47	0.1	1.197	8.2	11.25	5.28
826	20.0	2.46	2.47	22.9	1.118	6.7	19.54	25.37
828	15.0	2.50	2.47	5.8	0.893	3.8	21.29	23.17

(continued)

TABLE I-2 (concluded)

Industry Code ^a	Unionization, X_2 (per cent)	Region and City Size, X_3 (dollars)	Location in SMSA, X_4 (dollars)	Establishment Size, X_5 (per cent)	Employment Growth, X_6 (ratio of 1960 to 1950)	Unemployment Rate, X_7 (per cent)	Annual Hours, X_8 (hundreds of hours)	Self Employment, X_9 (per cent)
829	15.0	2.47	2.47	0.1	0.942	2.8	21.27	73.93
836	15.0	2.50	2.46	0.1	0.678	3.0	20.96	46.83
838	32.0	2.46	2.48	0.1	1.291	1.7	23.03	51.26
839	15.0	2.53	2.47	0.2	1.023	2.4	20.18	45.05
846	21.0	2.61	2.50	8.2	0.722	7.5	16.88	17.48
848	23.0	2.46	2.47	0.2	1.098	7.0	16.76	23.88
849	23.0	2.53	2.48	10.0	1.465	9.7	16.81	17.37
867	0.1	2.51	2.49	0.5	1.316	0.8	23.17	65.25
868	0.1	2.50	2.48	2.2	1.701	2.7	20.01	6.62
869	0.1	2.58	2.50	0.4	1.213	0.6	22.00	72.06
876	2.0	2.43	2.48	0.2	1.633	1.9	18.63	4.38
888	0.1	2.61	2.50	8.3	1.318	3.5	20.24	1.41
896	1.0	2.61	2.51	23.7	2.392	3.0	20.84	23.65
897	1.0	2.57	2.51	3.2	1.535	1.6	22.99	54.55
898	1.0	2.64	2.50	3.6	1.543	2.9	21.40	36.32
916	15.0	2.50	2.51	75.8	1.236	5.9	20.58	1.10
926	11.0	2.44	2.52	89.9	1.481	1.8	21.18	1.91
936	11.0	2.53	2.48	78.1	1.290	1.6	22.39	2.95

^aSee Table I-1 for industry titles.

For retail trade, personal services, and entertainment and recreation, the ratio of the number of employees in establishments with 100 and more employees from the *Census of Business* to the same number from the BES was multiplied by the number of employees in establishments of 250 and more from the BES as a percentage of total employees plus proprietors from the *Census of Business*. This is equivalent to taking the per cent of employees in establishments of 100 and more from the *Census of Business* and then assuming that the ratio of employees in those of 250 and more to employees in those of 100 and more was the same as the BES found. This was done by detailed industry.

For wholesale trade, the same method was used, but the ratio of employees in establishments of 100 and more from the two sources was for total wholesale trade, while the per cent in establishments of 250 and over was by detailed industry.

For professional services and FIRE, the number of employees in establishments of 250 and over from the BES was used as a percentage of employed persons from the *Census of Population* 1/1,000 sample.

For government, the number of employees in establishments of 250 and over as a percentage of total employees from the BES was used.

In *Employment and Wages*, where figures were omitted to avoid disclosure the residual number of employees in the industry group for the employment size-class were distributed among the detailed industries in the same proportion that employees were distributed among the same industries in the preceding size-class. However, the following industries were assumed to have the minimum number for that class, since they would have less than that using the proportional method:

<i>Employment Size-Class</i>	<i>Industry</i>	<i>SIC No.</i>
250-499	Liquor stores	592
	Sporting goods stores	595
	Barber shops	724
	Garment alteration	727
	Misc. personal service	729
500-999	Liquor stores	
	Book & stationery stores	594
1,000 and over	Misc. repair service	76
	Investment companies	67

Where more than one figure within an industry was missing in the *Census of Business*, the residual number of employees for the industry were distributed among the employment size-classes in proportion to a

TABLE I-3
Zero Order Correlation Coefficients, Ten Industry Variables^a

Average Hourly Earnings X_0	Demographic Characteristics X_1	Unionization 20-60% X_2	Location			Unemploy- ment Rate X_7	Annual Hours X_8	Self Employ- ment X_9
			Region and City Size X_3	Within SMSA X_4	Establish- ment Size X_5			
X_0	.8022	.3897	.4524	.6024	.3389	.2041	.1582	-.0375
X_1	.8369	.0326	.2629	.4360	.1352	.2039	.3919	.1253
X_2	.4011	.0641	.1952	.4635	.4870	-.0561	-.2329	-.3562
X_3	.4279	.1922	.2403	.2403	.3421	.2934	.0986	-.1306
X_4	.6231	.4638	.2332	.4517	.0679	.0679	.2051	-.2660
X_5	.4530	.5083	.3410	.5033	.0506	.0506	.0276	-.6341
X_6	.2019	-.0821	.3273	.0605	-.0181	-.1979	.0506	-.0804
X_7	-.2761	.3505	-.2303	-.0256	.0666	-.1979	-.4979	.0322
X_8	.3052	-.1854	.1179	.2324	.1360	.0411	-.4277	.2885
X_9	-.1719	-.3699	-.1586	-.2898	-.5331	-.1653	.0719	.1420

^a Lower half: all variables in logarithms except unionization; upper half, all variables in regular form.

weighted distribution of the number of establishments in the employment size-classes. (50-99/100 and over = 2/1.)

For variables X_8 through X_9 , the sources were as follows:

X_6 *Employment growth*: U.S. Bureau of the Census, *Census of Population: 1960*, Vol. 1, *Characteristics of the Population*, part 1, *United States Summary*, Table 210.

X_7 *Unemployment rate of males*: U.S. Bureau of the Census, *Census of Population: 1960*, Vol. 1, *Characteristics of the Population*, part 1, *United States Summary*, Tables 210 and 211.

X_8 *Average annual hours per employed male*: 1/1,000 sample.

X_9 *Self-employment income as a per cent of earnings*: 1/1,000 sample.