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**HOURS AND EARNINGS IN ANTHRACITE
AND BITUMINOUS COAL MINING**

ANTHRACITE—1919 AND 1920
BITUMINOUS—1919



APRIL, 1921

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HOURS AND EARNINGS IN ANTHRACITE COAL MINING IN 1919 AND 1920, AND IN BITUMINOUS COAL MINING IN 1919.

INTRODUCTION.

This report shows the earnings and hours of labor of coal mine employees as taken from the records of representative mines. Figures are presented for bituminous mine employees for a sample pay period in 1919, and for anthracite mine employees for sample pay periods in both 1919 and 1920. Funds were not available for collecting data for bituminous mines in 1920. All employees for whom figures are presented are males.

The material on which this report is based is for a half-month pay-roll period and was obtained from the pay rolls of the companies by agents of the Bureau. For employees who are paid on a tonnage basis it was necessary to make arrangements with the companies to keep a record of the hours on duty. This was done by noting the time when the employee entered and left the mine. Employees work in various parts of the mine and at unequal distances from the entrance. It is estimated that it takes employees from 15 minutes up to an hour in some instances to get from the entrance of the mine to their places of work. Consequently all the figures relating to the *hours* of these employees represent the time *in the mine*.

The most satisfactory method of obtaining data for a report on any industry would be to secure the data from all companies for the same pay-roll period. This was done for anthracite mines because the anthracite coal field is limited to 10 counties in Pennsylvania. It was not practicable to do so for bituminous mines with the limited force of the Bureau, because the field of inquiry extended over 18 States, and as stated special time records had to be kept for employees who are paid tonnage rates. The pay-roll periods for anthracite mines are for the half months ending January 31, 1919, and March 31, 1920. The half-months' pay-rolls for bituminous mines vary as to date, but are within the period beginning January 16 and ending May 31, 1919.

War-time requirements made it necessary to increase the production of coal in 1917 and 1918. During the latter part of 1918 production fell off, and continued to decrease until it was much below normal in February and March, 1919. It was on the increase in April and May, but was still under normal. Many mines were in operation less than their regular full-time hours.

The following table, partly compiled from "Coal in 1918," a report published by the United States Geological Survey, indicates the importance of the industry, and shows by States, arranged in the order of net tons produced, the following facts: Number of persons employed, average number of days mines were in operation, number of tons produced, and value of product at the mines in 1918. The last two columns show by States the number of employees and mines for which the Bureau presents figures in this report.

TABLE 1.—NUMBER OF PERSONS EMPLOYED, AVERAGE NUMBER OF DAYS MINES WERE IN OPERATION, TONS MINED, VALUE AT MINES IN 1918, AND NUMBER OF EMPLOYEES AND MINES FOR WHICH BUREAU PRESENTS DATA IN 1919, BY STATES.

	Number of employees in 1918. ¹	Average number of days mines were in operation in 1918. ¹	Number of net tons produced in 1918. ¹	Value at mines in 1918. ¹	Number of employees for which the Bureau reports figures for 1919.	Number of mines for which the Bureau reports figures for 1919.
ANTHRACITE COAL.						
Pennsylvania.....	147,121	293	98,826,084	\$336,480,347	16,508	² 22
BITUMINOUS COAL.						
Pennsylvania.....	174,306	269	178,550,741	463,159,736	9,772	31
West Virginia.....	89,530	238	89,935,839	230,508,846	1,739	13
Illinois.....	85,065	238	89,291,105	206,860,291	5,925	16
Ohio.....	48,450	223	45,812,943	118,095,518	3,083	13
Kentucky.....	39,342	230	31,612,617	80,666,842	2,867	19
Indiana.....	30,376	227	30,678,634	70,384,601	2,574	11
Alabama.....	26,221	278	19,184,062	54,752,329	1,394	5
Colorado.....	14,483	255	12,407,571	33,404,743	2,736	18
Virginia.....	11,004	277	10,289,808	25,865,895	618	4
Wyoming.....	7,554	268	9,438,688	22,581,019	421	4
Iowa.....	13,328	245	8,192,195	24,703,237	1,476	11
Kansas.....	10,665	234	7,561,947	22,028,142	1,879	12
Tennessee.....	10,694	265	6,831,048	19,305,208	930	7
Missouri.....	9,590	235	5,667,730	17,126,498	1,497	11
Utah.....	4,160	258	5,136,825	13,937,097	857	7
Oklahoma.....	8,451	228	4,813,447	17,508,884	857	8
Maryland.....	5,568	261	4,497,297	12,466,189	812	5
New Mexico.....	4,095	301	4,023,239	10,787,082	1,131	6
Other States ²	21,523	-----	15,459,184	47,667,788	-----	-----
Total.....	615,305	249	579,385,820	1,491,809,940	40,508	201

¹ From Coal in 1918. Part A—Production. Department of the Interior. U. S. Geological Survey. Washington, May 28, 1920.

² Sixteen mines and 10,821 employees were covered in 1920.

³ Alaska, Arkansas, California, Georgia, Idaho, Michigan, Montana, Nevada, North Carolina, North Dakota, Oregon, South Dakota, Texas, and Washington.

Material was obtained for 201 bituminous mines that were in operation one-half to full time during the half-month pay-roll period for which the information was taken, and for 27 mines that were in operation less than one-half of full time. The 27 mines are included in Table 3, page 10, but are not included in other tables of this report, because their production was so far below normal that the figures might not be considered representative.

SUMMARY OF GENERAL TABLES.

The following table is a summary of the general tables of this report. For details see general tables, pages 23 to 110. Anthracite and bituminous figures are given separately with underground occupations shown under inside work and above ground occupations

shown under outside work. To illustrate the tables, the figures for inside blacksmiths in anthracite mines show that 30 were employed in 13 mines during the half-month pay-roll period in 1919 for which data were obtained; that their average full-time hours per week were 48 and 112 in the half month; that they actually worked an average of 124.7 hours during the half month; that their average earnings per hour were \$0.59; that they actually earned an average of \$73.56 during the half month; and that their computed average full time earnings for the half month were \$66.26.

For employees of bituminous mines it will be noticed that as a rule the three actual mining occupations, hand miners, machine miners, and loaders, show higher average earnings per hour than any of the other occupations. Employees in these occupations are as a rule paid on a tonnage basis, while employees in other occupations are paid hourly, daily, weekly, or monthly rates. Occasionally, however, one or more of these occupations are paid at a time rate. In Virginia fully 50 per cent of the machine miners are paid at an hourly rate. In Oklahoma practically all of them are so paid. That may account for the fact that in the latter State loaders who are paid on a tonnage basis made higher average earnings per hour than machine miners.

TABLE 2.—AVERAGE HOURS AND EARNINGS IN A HALF-MONTH PAY-ROLL PERIOD, BY OCCUPATIONS.

ANTHRACITE, 1919 AND 1920.

Occupation.	Year.	Number of mines.	Number of employees.	Hours.			Earnings.		
				Average full-time hours per week.	Average full-time hours in half month.	Average hours actually worked in half month.	Average earnings per hour.	Average earnings actually received in half month.	Average full-time earnings in half month.
Inside work:									
Blacksmiths.....	1919	13	30	48.0	112.0	124.7	\$0.590	\$73.56	\$66.26
	1920	8	20	48.0	112.3	123.7	.578	71.44	64.85
Bratticemen.....	1919	17	116	48.0	112.0	111.9	.561	62.80	62.33
	1920	14	111	48.0	112.2	121.3	.569	68.97	63.79
Cagers.....	1919	22	234	48.4	112.8	126.9	.518	65.78	58.24
	1920	16	197	48.6	113.4	130.5	.511	60.75	57.89
Car runners.....	1919	17	342	48.0	112.1	109.9	.506	55.62	56.85
	1920	15	233	48.0	112.1	116.1	.504	58.53	59.58
Door tenders (boys).....	1919	20	247	48.0	112.0	106.8	.315	33.66	35.23
	1920	14	156	48.0	112.0	102.5	.306	31.36	34.24
Drivers.....	1919	22	479	48.0	112.0	105.3	.500	52.69	55.86
	1920	14	272	48.0	112.0	106.1	.498	52.83	55.73
Engineers.....	1919	17	121	50.7	117.9	130.9	.537	70.34	63.25
	1920	14	100	50.5	117.0	120.0	.562	67.41	65.02
Laborers.....	1919	22	1,200	48.9	113.9	107.3	.514	55.13	58.80
	1920	16	736	48.1	112.4	108.6	.521	56.56	58.40
Laborers, company miners' ¹	1919	19	632	48.0	112.0	102.9	.527	54.26	58.92
	1920	9	308	48.0	112.5	105.7	.526	55.63	59.35
Laborers, consideration miners' ²	1920	10	202	48.0	112.1	94.3	.541	50.97	60.71
Laborers, contract miners'.....	1919	21	1,855	48.0	112.0	78.7	.635	49.99	71.57
	1920	14	1,191	48.0	112.0	82.1	.679	55.77	76.00
Machinists.....	1919	11	67	51.4	119.8	113.1	.568	64.29	67.80
	1920	9	19	48.0	112.1	145.9	.584	85.18	65.45
Masons.....	1919	12	41	48.0	112.0	112.0	.576	64.56	64.56
	1920	6	29	48.0	112.0	115.0	.579	66.82	64.85
Miners, company.....	1919	19	656	48.0	112.0	94.1	.582	54.79	65.12
	1920	11	367	48.0	112.8	97.9	.576	56.42	64.90
Miners, consideration.....	1919	10	498	48.0	112.0	101.4	.634	64.24	71.19
	1920	10	480	48.0	112.5	97.6	.659	64.33	73.88

¹ Figures for 1919 include laborers, consideration miners'.

² Figures for 1919 included with laborers, company miners'.

TABLE 2.—AVERAGE HOURS AND EARNINGS IN A HALF-MONTH PAY-ROLL PERIOD, BY OCCUPATIONS—Continued.

ANTHRACITE, 1919 AND 1920—Concluded.

Occupation.	Year.	Number of mines.	Number of employees.	Hours.			Earnings.		
				Average full-time hours per week.	Average full-time hours in half month.	Average hours actually worked in half month.	Average earnings per hour.	Average earnings actually received in half month.	Average full-time earnings in half month.
Inside work—Concluded.									
Miners, contract.....	1919	22	4,887	48.0	112.0	94.5	\$0.841	\$79.56	\$94.29
	1920	16	3,188	48.0	112.1	91.8	.925	84.86	104.79
Motormen.....	1919	19	247	48.0	112.0	130.4	.558	72.78	62.47
	1920	15	202	48.0	112.3	131.7	.554	73.02	62.20
Motor brakemen.....	1919	18	190	48.0	112.0	119.3	.502	59.84	56.20
	1920	14	178	48.0	112.2	116.1	.497	57.69	55.74
Pumpmen.....	1919	21	104	78.5	179.6	174.2	.404	70.42	73.09
	1920	15	99	74.3	169.9	169.0	.417	70.46	70.61
Timbermen.....	1919	15	136	48.0	112.0	99.8	.591	58.97	68.69
	1920	13	97	48.0	112.0	106.7	.578	61.66	64.67
Trackmen.....	1919	22	163	48.0	112.0	114.5	.572	65.44	63.89
	1920	16	123	48.0	112.2	120.8	.578	69.85	64.80
Total.....	1919	22	12,245	48.4	112.9	98.7	.661	65.18	75.59
	1920	16	8,308	48.4	113.0	99.4	.690	68.56	79.95
Outside work:									
Ashmen.....	1919	19	72	53.5	123.8	129.0	.441	56.82	54.47
	1920	15	53	55.7	127.7	126.0	.449	56.62	57.61
Blacksmiths.....	1919	22	60	48.0	112.0	127.0	.567	71.96	64.02
	1920	16	39	48.0	112.1	134.0	.574	76.86	64.40
Cagers.....	1919	22	119	48.6	113.3	132.4	.458	60.65	51.81
	1920	15	84	49.7	115.8	132.1	.449	59.31	51.09
Carpenters.....	1919	22	250	48.3	112.8	132.4	.561	74.29	63.22
	1920	16	163	48.0	112.4	136.1	.548	74.64	61.45
Car runners.....	1919	15	83	48.0	112.0	109.8	.453	49.73	50.81
	1920	10	46	48.0	112.4	114.1	.450	51.32	50.57
Dumpers.....	1919	19	88	48.0	112.0	111.1	.449	49.83	50.27
	1920	16	57	48.0	112.1	119.5	.448	53.60	50.18
Engineers.....	1919	22	248	52.1	120.8	140.0	.527	73.80	63.00
	1920	16	185	56.0	129.2	140.7	.532	74.81	68.65
Firemen.....	1919	22	314	55.7	127.3	128.6	.502	64.62	63.98
	1920	16	217	55.6	127.4	133.2	.501	66.71	63.89
Jig runners.....	1919	18	81	48.0	112.0	129.1	.416	53.70	45.93
	1920	12	54	48.0	112.4	123.4	.426	52.59	47.72
Laborers.....	1919	22	1,211	49.3	114.9	120.0	.433	51.94	49.69
	1920	16	718	48.5	113.4	118.5	.438	51.94	49.61
Loaders.....	1919	21	199	48.0	112.0	122.6	.448	54.92	50.14
	1920	16	142	48.0	112.2	119.2	.449	53.51	50.33
Machinists.....	1919	20	112	48.0	112.0	141.9	.513	72.81	57.85
	1920	14	117	48.4	113.5	150.3	.509	76.58	57.73
Oilers.....	1919	21	77	48.0	112.0	129.7	.436	56.58	48.58
	1920	15	42	48.0	112.0	114.9	.440	50.60	49.12
Platemen.....	1919	21	180	48.0	112.0	118.7	.431	51.13	48.18
	1920	14	112	48.0	112.3	124.1	.429	53.27	47.52
Repairmen.....	1919	10	113	48.0	112.0	123.5	.485	59.90	54.31
	1920	5	21	48.0	112.0	121.3	.480	58.24	53.71
Slaters (boys).....	1919	21	580	48.0	112.0	99.9	.300	29.95	33.41
	1920	15	345	48.0	112.2	100.6	.303	30.51	33.95
Timber cutters.....	1919	19	115	48.0	112.0	130.3	.452	58.91	50.67
	1920	14	92	48.0	112.5	127.9	.448	57.31	50.40
Trackmen.....	1919	14	28	48.0	112.0	115.7	.478	55.26	53.40
	1920	8	26	48.0	112.5	133.0	.455	60.43	51.10
Total.....	1919	22	3,930	49.4	115.0	121.5	.442	54.37	50.81
	1920	16	2,513	49.6	115.6	123.2	.453	55.81	51.70
Grand total.....	1919	22	16,175	48.6	113.4	104.2	.600	62.55	69.57
	1920	16	10,821	48.7	113.6	104.9	.625	65.60	73.39

TABLE 2.—AVERAGE HOURS AND EARNINGS IN A HALF-MONTH PAY-ROLL PERIOD, BY OCCUPATIONS—Concluded.

BITUMINOUS, 1919.

Occupation.	Number of mines.	Number of employees.	Hours.			Earnings.		
			Average full-time hours per week.	Average full-time hours in half month.	Average hours actually worked in half month.	Average earnings per hour.	Average earnings actually received in half month.	Average full-time earnings in half month.
Inside work:								
Brakemen.....	146	1,005	48.6	105.0	76.1	\$0.581	\$44.22	\$60.69
Bratticemen and timbermen.....	163	932	48.3	103.6	84.9	.610	51.78	62.97
Cagers.....	90	220	48.3	100.2	82.6	.626	51.72	63.20
Drivers.....	165	2,372	48.1	102.3	73.1	.609	44.55	62.16
Laborers.....	164	2,319	48.5	103.9	74.9	.586	43.86	60.17
Loaders.....	128	13,345	48.5	104.7	65.3	.774	50.51	81.24
Miners, hand.....	143	11,379	48.1	102.5	60.0	.785	47.12	80.83
Miners, machine.....	120	1,721	48.4	104.3	73.2	.926	67.75	98.45
Motormen.....	154	894	48.7	105.3	86.5	.619	53.51	65.00
Pumpmen.....	117	344	54.8	118.0	104.1	.586	61.01	68.35
Trackmen.....	187	1,122	48.5	104.1	82.4	.598	49.23	61.84
Trappers (boys).....	103	536	48.5	101.6	71.5	.339	24.26	34.64
Total.....	201	36,189	48.5	103.8	67.6	.726	49.06	76.36
Outside work:								
Blacksmiths.....	187	376	50.8	109.0	100.6	.621	62.47	67.54
Carpenters.....	110	260	50.6	110.1	96.5	.585	56.43	64.10
Engineers.....	150	380	56.9	121.3	116.0	.601	69.67	72.77
Firemen.....	122	443	53.5	124.6	112.2	.537	60.26	66.88
Laborers.....	198	2,860	49.5	106.3	83.7	.502	42.00	53.22
Total.....	201	4,319	51.3	110.0	91.7	.534	48.96	58.24
Grand total.....	201	40,508	48.8	104.4	70.1	.699	49.05	74.43

Full-time hours per week are the regular hours that mines are open for work during a week. The regular hours were 48 per week or 8 per day, 6 days, for approximately 98 per cent of the employees of the anthracite mines for inside work in 1919 and 1920, and 89 per cent for outside work in 1919 and 85 per cent in 1920. The regular hours were 48 per week or 8 per day, 6 days, for approximately 95 per cent of the employees of the bituminous mines for inside work and 79 per cent for outside work in 1919.

Full-time hours in half month are the regular hours that mines are open for work during one half month. The half month for the mines covered in this report was 13, 15, or 16 days, including Sundays. In all cases the first half of a month was 15 days. The last half was 16 for months of 31 days, 15 for months of 30 days, and 13 days for February. The average hours actually worked in the half month is the result obtained by dividing the total number of hours actually worked in the half month by all employees in the occupation by the number of employees in the occupation.

The average earnings per hour is the result obtained by dividing the total of the actual earnings of all employees in the occupation by the total of the actual hours worked in the half-month pay-roll period for which data were obtained. Average earnings per hour were obtained for each employee by dividing the actual earnings received by hours actually worked.

The average earnings actually received in a half month is the result obtained by dividing the total earnings of all employees in the occupation by the number of employees in the occupation.

The average full-time earnings in the half month is the result obtained by adding the average earnings per hour of all employees in the occupation whose full-time hours in the half month are the same and multiplying the sum by their full-time hours; combining the products for the groups of employees in the occupations whose full-time hours are different; and dividing the sum of the products by the total number of employees in the occupation. The full-time hours in a half month of 13 days, 11 week days of 8 hours each and 2 Sundays, are 88; of 14 days are 96; of 15 days are 104, and in a half month of 16 days are 112.

The table below shows that average earnings per hour were as a rule higher for employees of mines that were in operation less than one-half of full time in the pay period taken than for employees of mines that were in operation one-half to full time. This is especially true of loaders, hand miners, and machine miners, who are paid on a tonnage basis, and seems to indicate that employees in these occupations speed up when mines are running short time, thereby earning more per hour than where mines are in operation full time; over 26,000, or approximately 65 per cent, of all bituminous employees covered in this report are included in these three occupations. Brake-men, cagers, laborers, pumpmen, and trappers are exceptions to the above rule. Less than 4,500 employees, or approximately 11 per cent of all bituminous employees, included in this report are included in these five occupations.

TABLE 3.—COMPARISON OF AVERAGES FOR 201 BITUMINOUS MINES INCLUDED IN THE COMPLETE TABULATION FOR 1919, AND FOR 27 MINES THAT ARE NOT INCLUDED BECAUSE OPERATING LESS THAN ONE-HALF OF FULL TIME IN THE PAY PERIOD TAKEN.

Occupation.	Number of mines operating—		Number of employees in mines operating—		Average hours worked in half-month pay period in mines operating—		Average earnings in half-month pay period in mines operating—		Average earnings per hour in mines operating—	
	One-half to full time.	Less than half of full time.	One-half to full time.	Less than half of full time.	One-half to full time.	Less than half of full time.	One-half to full time.	Less than half of full time.	One-half to full time.	Less than half of full time.
Inside work:										
Brakemen.....	146	19	1,005	105	76.1	43.7	\$44.22	\$24.76	\$0.581	\$0.558
Bratticemen and timbermen.....	163	20	932	125	84.9	59.9	51.78	38.03	.610	.635
Cagers.....	90	18	220	47	82.6	47.4	51.72	29.38	.626	.619
Drivers.....	105	25	2,372	348	73.1	45.2	44.55	27.33	.609	.611
Laborers.....	164	25	2,319	323	74.9	42.0	43.86	24.62	.586	.582
Loaders.....	128	19	13,345	1,657	65.3	31.5	50.51	29.33	.774	.936
Miners, hand.....	143	16	11,379	1,459	60.0	34.2	47.12	27.91	.785	.816
Miners, machine.....	120	18	1,721	239	73.2	35.8	67.75	37.02	.926	1.094
Motormen.....	154	21	894	100	86.5	48.4	53.51	30.08	.619	.628
Pumpmen.....	117	17	344	47	104.1	100.3	61.01	55.92	.586	.575
Trackmen.....	187	26	1,122	167	82.4	55.1	49.23	34.08	.598	.617
Trappers (boys)...	103	17	536	85	71.5	34.3	24.26	11.64	.339	.336
Total.....	201	27	36,189	4,702	67.6	37.4	49.06	29.07	.726	.807
Outside work:										
Blacksmiths.....	187	26	376	39	100.6	70.9	62.47	46.16	.621	.646
Carpenters.....	119	11	260	20	96.5	87.5	56.43	55.36	.585	.631
Engineers.....	150	21	380	36	116.0	118.8	69.67	71.86	.601	.604
Firemen.....	122	18	443	50	112.2	113.7	60.26	63.20	.537	.556
Laborers.....	198	27	2,860	308	83.7	59.1	42.00	31.53	.502	.533
Total.....	201	27	4,319	453	91.7	73.2	48.96	40.54	.534	.555
Grand total...	201	27	40,508	5,155	79.1	40.6	49.05	30.08	.699	.785

CONTRACT MINERS.

Contract miners is the most important occupation in the anthracite division of the coal-mining industry. As employees in this occupation are paid on a tonnage basis, and as the Bureau has no information relating to hours and earnings prior to 1919, index numbers (percentages of change) can not be computed for this occupation for earlier years by the usual method; that is, on the basis of actual rates or earnings per hour. The only alternative is to show the percentage of change in gross tonnage rates. This has been done, beginning with the 1902 rates as the basis of comparison, or 100. Actual gross tonnage rates differ from mine to mine and even within a mine, but the percentage of increase in gross-tonnage rates made from time to time has applied uniformly to the then existing rates. In 1903 the Anthracite Coal Commission made an award in which contract miners were given a 10 per cent increase over the 1902 tonnage rate, and also provided for an additional increase of 1 per cent on and over the minimum rate for 1903 (110) for each 5-cent advance in the April, 1903, wholesale price of coal at New York City. The 1903 award continued in effect 9 years. During these years the 10 per cent increase plus the per cent increase due to the advance in the wholesale price of coal at New York City over the April, 1903, price resulted in a sliding scale, the increases over 1902 varying from 14.22 per cent in 1907 to 14.95 per cent in 1904 and 1911. The agreement of May, 1912, abolished the sliding scale or the 1 per cent increase for each 5-cent advance in the April, 1903, wholesale price of coal at New York City, and gave a 10 per cent increase over the minimum rate (110) for 1903, thereby making the index number 121 for 1912. This agreement continued in force 4 years or to March 31, 1916. The agreement of May, 1916, increased the rate 7 per cent over the 1915 rate. The agreement of May, 1917, made an increase of 10 per cent over the 1916 rate; the November, 1917, agreement made an increase of 25 per cent over the 1916 rate; the November, 1918, agreement which continued in force to April, 1920, made an increase of 40 per cent over the 1916 rate; and the August, 1920, award of the Anthracite Coal Commission, retroactive to April 1, 1920, increased the gross-tonnage rate 65 per cent over the 1916 rate.

The index numbers presented below are therefore based on gross tonnage with the 1902 rate the base or 100; they are not based on net tonnage rates, or on average rates of wages or earnings per hour. As deductions for helpers and for supplies have not changed in the same proportion these figures can not be assumed as representing the changes in net earnings.

TABLE 4.—PERIOD OF AGREEMENT AND INDEX NUMBERS BASED ON GROSS-TONNAGE RATES OF CONTRACT MINERS.

[1902=100.]

Year or period of agreement.	Index numbers.
1902.....	100.00
Apr. 1, 1903, to Mar. 31, 1904.....	114.40
Apr. 1, 1904, to Mar. 31, 1905.....	114.95
Apr. 1, 1905, to Mar. 31, 1906.....	114.31
Apr. 1, 1906, to Mar. 31, 1907.....	114.58
Apr. 1, 1907, to Mar. 31, 1908.....	114.22
Apr. 1, 1908, to Mar. 31, 1909.....	114.40
Apr. 1, 1909, to Mar. 31, 1910.....	114.49
Apr. 1, 1910, to Mar. 31, 1911.....	114.40
Apr. 1, 1911, to May, 1912.....	114.95
May, 1912, to Mar. 31, 1913.....	121.00
Apr. 1, 1913, to Mar. 31, 1914.....	121.00
Apr. 1, 1914, to Mar. 31, 1915.....	121.00
Apr. 1, 1915, to Mar. 31, 1916.....	121.00
May, 1916, to May, 1917.....	129.47
May, 1917, to November, 1917.....	142.42
November, 1917, to November, 1918.....	161.84
November, 1918, to November, 1919.....	181.25
November, 1919, to Mar. 31, 1920.....	181.25
April, 1920.....	213.62

PICK OR HAND MINERS.

Pick or hand miners is the most important occupation in the bituminous division of the coal-mining industry. Employees in this occupation, like contract miners in the anthracite division of the industry, are paid on a tonnage basis. Since the Bureau has no information as to hours and earnings for any year except 1919, index numbers can not be computed for this occupation on the basis of rates or earnings per hour. Gross-tonnage rates for run of mine were obtained for the occupation from agreements between coal operators and miners of the Hocking Valley district of Ohio for the years, 1902 to 1918; from the award of the Fuel Administration for 1919, and from the award of the Bituminous Coal Commission for 1920. The Hocking Valley district is the basing district of Ohio, and is part of the central competitive field, consisting of Illinois, Indiana, Ohio, and western Pennsylvania. Index numbers have been computed from the gross tonnage rates for those years with the 1902 tonnage rate the base, or 100, and are presented here. The year or period of agreement and the gross-tonnage rate are also shown.

TABLE 5.—YEAR OR PERIOD OF AGREEMENT, GROSS-TONNAGE RATES, AND INDEX NUMBERS BASED ON GROSS-TONNAGE RATES OF PICK MINERS IN HOCKING VALLEY DISTRICT OF OHIO.

[1902=100.]

Year or period of agreement.	Gross-tonnage rate Hocking Valley district for run of mine.	Index numbers.
Apr. 1, 1902, to Mar. 31, 1903.....	\$0.5200	100.00
Apr. 1, 1903, to Mar. 31, 1904.....	.5850	112.50
Apr. 1, 1904, to Mar. 31, 1905.....	.5525	106.25
Apr. 1, 1905, to Mar. 31, 1906.....	.5525	106.25
Apr. 1, 1906, to Mar. 31, 1907.....	.5850	112.50
Apr. 1, 1907, to Mar. 31, 1908.....	.5850	112.50
Apr. 1, 1908, to Mar. 31, 1909.....	.5850	112.50
Apr. 1, 1909, to Mar. 31, 1910.....	.5850	112.50
Apr. 1, 1910, to Mar. 31, 1911.....	.6175	118.75
Apr. 1, 1911, to Mar. 31, 1912.....	.6175	118.75
Apr. 1, 1912, to Mar. 31, 1913.....	.6500	125.00
Apr. 1, 1913, to July 15, 1914.....	.6500	125.00
July 15, 1914, to Mar. 31, 1915.....	.6760	130.00
Apr. 1, 1915, to Mar. 31, 1916.....	.6760	130.00
Apr. 1, 1916, to Apr. 16, 1917.....	.6764	130.08
Apr. 16, 1917, to Oct. 29, 1917.....	.7764	149.31
Oct. 29, 1917, to Mar. 31, 1918.....	.8764	168.54
Apr. 1, 1918, to November, 1919.....	.8764	168.54
November, 1919, to Mar. 31, 1920.....	.9981	192.13
April, 1920.....	1.1164	214.69

INDEX NUMBERS.

Rates and index numbers are presented below for five groups of employees in the Hocking Valley district. Employees in these groups work inside the mines. Rates were obtained from a copy of the scale of rates for the Hocking Valley district of Ohio for 1913 to 1918; from the award of the Fuel Administration for 1919, and from the award of the Bituminous Coal Commission for 1920.

The gross-tonnage rate for machine cutting has been combined with the gross-tonnage rate for loading, thus making a gross-tonnage rate for cutters and loaders combined. This is done because the gross tonnage rate for pick or hand miners covers both the mining and loading of coal.

Index numbers for cutters and loaders, and for pick or hand miners have been computed from the *gross tonnage* rates here shown with the 1913 rate the base, or 100; they are not based on net tonnage rates or on average rates or earnings per hour. Index numbers for the other three groups are based on actual rates of wages per day.

TABLE 6.—RATES AND INDEX NUMBERS, 1913 TO DATE, FOR INSIDE OCCUPATIONS IN BITUMINOUS COAL MINES, BY YEAR OR PERIOD OF AGREEMENT.

[1913=100.]

Period of agreement.	Machine cutters and loaders.		Pick or hand miners.		Cagers, drivers, machine and water haulers, motor men, snappers, timbermen, tracklayers, trip riders, and wiremen.		Pipe men.		Tracklayers' helpers.		Trappers (boys).	
	Gross-tonnage rate for run of mine. ¹	Index numbers.	Gross-tonnage rate for run of mine.	Index numbers.	Rate per day.	Index numbers.	Rate per day.	Index numbers.	Rate per day.	Index numbers.	Rate per day.	Index numbers.
Apr. 1, 1913, to July 15, 1914.	\$0.4485	100.0	\$0.6500	100.0	\$2.84	100.0	\$2.78	100.0	\$2.62	100.0	\$1.32	100.0
July 15, 1914, to Mar. 31, 1915.	.4700	104.8	.6760	104.0	2.84	100.0	2.78	106.0	2.62	100.0	1.32	100.0
Apr. 1, 1915, to Mar. 31, 1916.	.4700	104.8	.6760	104.0	2.84	100.0	2.78	100.0	2.62	100.0	1.32	100.0
Apr. 1, 1916, to Apr. 16, 1917.	.5000	111.5	.6764	104.1	2.98	104.9	2.92	105.0	2.75	105.0	1.40	106.1
Apr. 16, 1917, to Oct. 29, 1917.	.6000	133.8	.7764	119.4	3.60	126.8	3.52	126.6	3.35	127.9	1.90	143.9
Oct. 29, 1917, to Mar. 31, 1918.	.7000	156.1	.8764	134.8	5.00	176.1	4.92	177.0	4.75	181.3	2.65	200.8
Apr. 1, 1918, to November, 1919.	.7000	156.1	.8764	134.8	5.00	176.1	4.92	177.0	4.75	181.3	2.65	200.8
November, 1919, to Mar. 31, 1920.	.7980	177.9	.9991	153.7	5.70	200.7	5.61	201.8	5.42	206.9	3.02	228.8
Apr. 1, 1920.	.9400	209.6	1.1164	171.8	6.00	211.3	5.92	213.0	5.75	219.5	3.18	249.9

¹ Combined rate for cutting in rooms by Jeffrey style of machines and for loading in rooms and hand drilling.

DAYS IN OPERATION IN ONE YEAR.

Average and classified days of operation in one year are presented in the following table for the mines of each State for which figures are shown in this report. It will be observed that for 10 States the year reported ends December 31, 1918, for 3 it ends April 30, 1919, and that for the other 5 States the year ends on different dates. Totals for all States are not shown because the year is not for the same period for all States. Comparison of figures should not be made between States except those with the same year ending.

Reports were not obtained for 9 mines. The average days of operation are for all the mines of a State for which days of operation are reported.

TABLE 7.—AVERAGE AND CLASSIFIED DAYS OF OPERATION IN ONE YEAR, BY STATES.

State.	Year ending—	Num-ber of mines.	Average number of days in operation in year.	Number of mines in operation—								Days not re-ported.
				Under 150 days.	150 and under 180 days.	180 and under 210 days.	210 and under 240 days.	240 and under 270 days.	270 and under 300 days.	300 and under 315 days.		
Anthracite:												
Pennsylvania.....	Jan. 31, 1919	22	293.8					2	10	10		
Do.....	Mar. 31, 1920	16	266.0		1		1	1	10			3
Bituminous:												
Alabama.....	Dec. 31, 1918	5	294.4						2	3		
Colorado.....	Apr. 30, 1919	18	253.1	1	2			8	5	2		
Illinois.....	Feb. 15, 1919	16	256.5			2	1	6	7			
Indiana.....	Feb. 28, 1919	11	251.4			1	3	1	5			1
Iowa.....	Mar. 31, 1919	11	251.2				3	5	2			1
Kansas.....	Apr. 15, 1919	12	249.9			1	4	4	3			
Kentucky.....	Dec. 31, 1918	19	249.9			2	2	10	2			3
Maryland.....	do.....	5	255.0			1		2	2			
Missouri.....	Mar. 15, 1919	11	264.4				2	3	6			
New Mexico.....	Dec. 31, 1918	6	308.2							6		
Ohio.....	do.....	13	233.7			2	6	3	2			
Oklahoma.....	do.....	8	253.0			1	1	3	2			1
Pennsylvania.....	do.....	31	285.0				3	4	15	9		
Tennessee.....	do.....	7	290.2						5			2
Utah.....	Apr. 30, 1919	7	251.7				2	3	2			
Virginia.....	Dec. 31, 1918	4	296.3						2	2		
West Virginia.....	do.....	13	252.0			2	2	4	3	1		1
Wyoming.....	Apr. 30, 1919	4	253.8				1	2	1			

¹ Average for mines reporting.

DAYS CLOSED AND CAUSES.

In the following table average days of operation and average days closed on account of specified causes are shown for each State.

Totals are not shown for all States combined because the "year ending" is not the same for all States. Comparisons should be made only between States with the year of the same period. The average number of days closed are for mines that were actually closed for a specified cause and for all mines for which complete information was reported. Example: Seventeen mines in Colorado were closed for a total of 344 days on account of lack of orders, or for an average of 20.2 days. One mine was not closed for this cause. The average for the 18 mines is 19.1 days.

Some mines were closed on account of "vacations," which are here classed as strikes. In September, 1920, a large number of anthracite miners refrained from work of their own accord, against the advice of their union leaders and without consulting officials of the mines in which they were employed, declaring that they were taking a vacation. They were not satisfied with an award which had been made and requested President Wilson to reconvene the joint scale committee of operators and miners for the purpose of considering a new wage award. The President in his reply refused to reconvene the committee and said, "When a body of men collectively refrain from working by mutual understanding, however arrived at, it is a strike no matter what name may be given to it."

TABLE 8.—AVERAGE NUMBER OF DAYS OF OPERATION AND AVERAGE NUMBER OF DAYS CLOSED ON ACCOUNT OF SPECIFIED CAUSES IN ONE YEAR, BY STATES.

State.	Year ending—	Number of mines that reported causes for days closed. ¹	Average number of days in operation in one year.	Average number of days mines were closed in one year on account of—																	
				Sundays and holidays.			Lack of orders.			Lack of materials.			Strikes, lockouts, and "vacations."			Seasonal conditions.			Other causes.		
				Number of mines closed	Average number of days closed	Average number of days closed, all mines, including those not closed.	Number of mines closed	Average number of days closed	Average number of days closed, all mines, including those not closed.	Number of mines closed	Average number of days closed	Average number of days closed, all mines, including those not closed.	Number of mines closed	Average number of days closed	Average number of days closed, all mines, including those not closed.	Number of mines closed	Average number of days closed	Average number of days closed, all mines, including those not closed.	Number of mines closed	Average number of days closed	Average number of days closed, all mines, including those not closed.
ANTHRACITE.																					
Pennsylvania.....	Jan. 31, 1919	22	293.8	22	61.7	61.7	.....	.....	.....	.....	.....	.....	6	2.8	0.8	.....	.....	.....	20	9.7	8.8
Do.....	Mar. 31, 1920	13	266.0	10	64.9	64.9	9	14.6	10.8	29	16.5	29.9	5	7.1	3.2	.....	.....	.....	11	35.7	26.2
BITUMINOUS.																					
Alabama.....	Dec. 31, 1918	5	294.4	5	55.0	55.0	.....	.....	.....	.....	.....	.....	1	1.0	.1	.....	.....	.....	5	15.6	15.6
Colorado.....	Apr. 30, 1919	18	253.1	18	57.3	57.3	17	20.2	19.1	.....	.....	.....	1	1.0	.1	.....	.....	.....	18	35.4	35.4
Illinois.....	Feb. 15, 1919	16	256.5	16	60.1	60.1	16	14.5	14.5	.....	.....	.....	2	1.1	.1	.....	.....	.....	15	36.1	33.8
Indiana.....	Feb. 28, 1919	10	251.4	10	59.1	59.1	10	15.4	15.4	.....	.....	.....	7	5.1	3.6	.....	.....	.....	10	35.2	35.2
Iowa.....	Mar. 31, 1919	10	251.2	10	60.4	60.4	10	30.3	30.3	.....	.....	.....	1	2.0	.2	.....	.....	.....	10	22.9	22.9
Kansas.....	Apr. 15, 1919	12	249.9	12	63.9	63.9	10	7.1	5.9	7	10.1	5.9	11	5.7	5.2	.....	.....	.....	12	34.2	34.2
Kentucky.....	Dec. 31, 1918	16	249.9	16	56.4	56.4	.....	.....	.....	1	4.5	.3	2	11.0	1.4	.....	.....	.....	15	60.9	57.1
Maryland.....	do.....	3	255.0	3	56.3	56.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	31.3	31.3
Missouri.....	Mar. 15, 1919	11	264.4	11	60.3	60.3	9	21.7	17.8	1	4.0	.4	2	7.5	1.4	.....	.....	.....	11	22.3	22.3
New Mexico.....	Dec. 31, 1918	6	308.2	6	51.2	51.2	4	6.3	4.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	1.8	1.5
Ohio.....	do.....	12	233.7	12	58.8	58.8	5	5.6	2.3	.....	.....	.....	5	4.0	1.7	.....	.....	.....	12	71.6	71.6
Oklahoma.....	do.....	5	253.0	5	59.6	59.6	3	7.3	4.4	1	1.0	.2	2	3.5	1.4	.....	.....	.....	5	35.3	35.3
Pennsylvania.....	do.....	31	285.0	31	57.8	57.8	2	7.5	.4	.....	.....	.....	.....	.....	.....	1	35.0	1.1	26	24.4	20.5
Tennessee.....	do.....	4	290.2	4	58.3	58.3	.....	.....	.....	.....	.....	.....	3	4.0	3.0	.....	.....	.....	4	11.5	11.5
Utah.....	Apr. 30, 1919	7	251.7	7	51.4	51.4	7	49.0	49.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	15.1	12.9
Virginia.....	Dec. 31, 1918	4	296.3	4	57.0	57.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	11.8	11.8
West Virginia.....	do.....	12	252.0	12	58.0	58.0	4	8.3	2.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	52.3	52.3
Wyoming.....	Apr. 30, 1919	4	253.8	4	59.3	59.3	4	33.8	33.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	18.3	18.3

¹ Six bituminous mines did not report.² Short of men.

NUMBER OF STARTS (DAYS) PER HALF MONTH.

The following table shows the number of starts (days) made in the half month ending January 31, 1919, by anthracite employees. There were 14 week days and 2 Sundays in the half month. As each employee entered the mine he was checked-in as having made a start to work. Starts as shown in this table means the number of days on which an employee worked in the mine. He is recorded as making a start regardless of the number of hours he worked.

24885°—21—Bull. 279——2

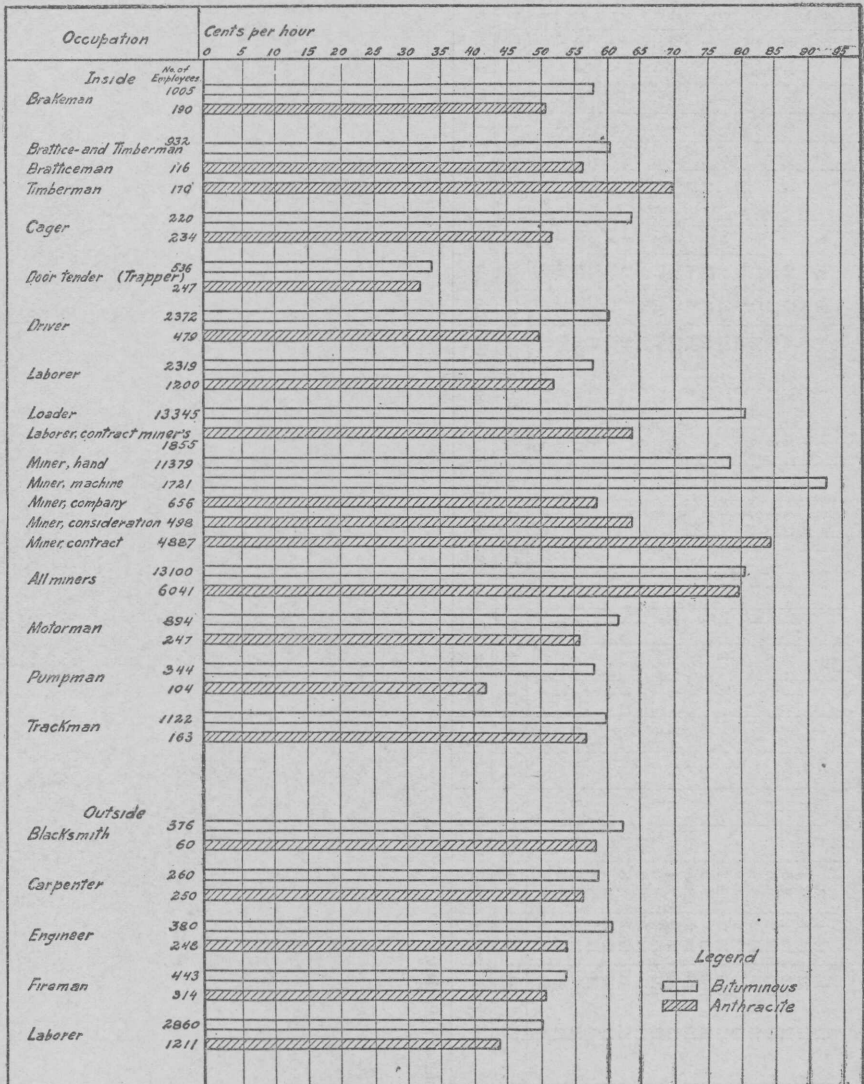
TABLE 9.—NUMBER AND PER CENT OF EMPLOYEES CLASSIFIED BY STARTS (DAYS ON WHICH EMPLOYEES WORKED) MADE IN THE HALF MONTH ENDING MAR. 31, 1920, BY OCCUPATIONS.

Occupation.	Number of—		Average—		Number of employees whose starts (days on which they worked in half month) were—																Per cent of employees whose starts (days on which they worked in half month) were—																
	Mines.	Em- ploy- ees.	Num- ber of starts.	Hours per start.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
<i>Inside work.</i>																																					
Blacksmiths.....	6	17	13.8	8.9											1	1	2	10	2	1											6	6	12	59	12	6	
Bratticemen.....	12	103	13.3	9.1	1						1		5	6	3	5	15	45	11	11	1									5	6	3	5	15	44	11	11
Cagers.....	13	161	13.0	10.1		1		1		1		2	5	16	5	8	24	80	13	5		1	1		1		1				6	3	5	15	50	8	3
Car runners.....	12	191	12.9	9.0	1	1	2		3	3	5	1	2	3	5	12	34	108	7	4	1	1	1		2	2	3	1	1	2	3	6	18	57	4	2	
Door tenders.....	11	102	12.6	8.1			3			1	1	1	2	4	3	5	4	17	61			3		1	1	1	2	4	3	5	4	17	60				
Drivers.....	11	179	12.0	8.4	1	2	3	1	4	3	2	2	6	21	3	19	31	78	2	1	1	1	2	1	2	2	1	1	3	12	2	11	17	44	1	1	
Engineers.....	11	84	13.8	8.7			2	1		1				6	1		7	29	17	20			2	1		1			7	1		8	35	20	24		
Laborers.....	13	650	12.2	8.8	12	12	8	11	8	8	7	15	19	26	31	52	90	271	52	28	2	2	1	2	1	1	1	2	3	4	5	8	14	42	8	4	
Laborers, company miners.....	7	218	11.7	8.7	6	4	3	6	4	5	3	3	6	5	13	24	43	85	5	3	3	2	1	3	2	2	1	1	3	2	6	11	20	39	2	1	
Laborers, consideration miners.....	10	202	11.7	8.1	9	4			3	3	7	2	10	8	17	13	44	77	4	1	4	2			1	1	3	1	5	4	8	6	22	38	2	(1)	
Laborers, contract miners.....	14	1,191	10.8	7.6	56	30	40	29	29	29	34	41	38	61	79	104	200	412	7	2	5	3	3	2	2	2	3	3	3	5	7	9	17	35	1	(1)	
Machinists.....	6	13	14.0	10.0	1										1	2	4	12	2	1										4	9	17	52	9	4		
Masons.....	4	23	13.5	8.5									1		2	4	12	2	1																		
Miners, company.....	11	331	10.8	8.6	17	14	11	11	6	4	13	9	11	9	19	15	47	128	11	6	5	4	3	3	2	1	4	3	3	3	6	5	14	39	3	2	
Miners, consideration.....	10	480	12.0	8.1		6	10	8	9	9	8	12	22	23	29	29	70	233	8	4		1	2	2	2	2	2	5	5	6	6	15	49	2	1		
Miners, contract.....	16	3,188	12.4	7.4	9	12	28	24	38	33	44	63	114	188	165	253	669	1,524	23	1	(1)	(1)	1	1	1	1	1	1	2	4	6	5	8	21	48	1	(1)
Motormen.....	13	192	13.1	10.0	2		2	1		2	1	1	3	7	8	16	22	95	21	11	1		1	1	1	1	1	1	2	4	8	11	49	11	6		
Motor brakemen.....	12	171	12.3	9.4		2	2		1	2	2	6	4	10	15	21	27	74	5			1	1		1	1	1	4	2	6	9	12	16	42	3		
Pumpmen.....	13	88	14.8	11.4	1	1								1	2	3	1	6	35	38	1	1							1	2	3	1	7	40	43		
Timbermen.....	11	88	12.2	8.6		1	2	2	2	6		1	1	4	4	6	6	38	11	4		1	2	2	2	7		1	1	5	5	7	7	43	12	5	
Trackmen.....	13	109	13.8	8.8							1			1	2		4	21	56	13	8								1	2	4	22	51	12	7		
Total.....	16	7,781	12.1	8.1	116	90	116	95	108	110	129	160	252	399	406	592	1,378	3,423	251	156	1	1	1	1	1	1	2	2	3	5	5	8	18	44	3	2	

COMPARISON OF EARNINGS.

To graphically compare 1919 earnings per hour of employees in the same or similar occupations in the two divisions of the industry a chart is here presented. Only occupations which are fairly com-

COMPARATIVE HOURLY EARNINGS FOR SIMILAR OCCUPATIONS IN ANTHRACITE AND BITUMINOUS COAL MINING.



parable are included in it. It will be noticed that bratticemen and timbermen in bituminous mines are grouped together whereas for anthracite mines each is given separately. This difference in method of treatment reflects the fact that in bituminous mines the same employee often performs both kinds of work, whereas in anthracite mines the duties of the two positions are quite distinct.

In addition to presenting separately the earnings of "Miners, hand," and "Miners, machine," in bituminous mining and of "Miners, company," "Miners, consideration," and "Miners, contract," in anthracite mining, the chart presents earnings for the two classes of bituminous miners combined and for the three classes of anthracite miners combined. The effect of making this combination is to bring the two averages more closely together than the several separate averages would seem to justify. This result is due to the fact that in bituminous mining by far the larger group, hand miners, is the group with comparatively low hourly earnings, while the largest group of anthracite miners, the contract miners, has hourly earnings much in excess of the earnings of company miners or consideration miners. The comparison for all miners combined shows hourly earnings remarkably close together in the two branches of the industry.

GENERAL TABLES.

In addition to the text tables already presented, 13 general tables are shown as follows:

TABLE A.—Average and classified full-time hours per week in anthracite coal mines, Pennsylvania, 1919 and 1920, by occupations (pp. 23 and 24).

TABLE B.—Average and classified full-time hours per week in bituminous coal mines, 1919, by occupations and States (pp. 25 to 29).

TABLE C.—Number and per cent of employees working each specified per cent of full time in a half-month pay-roll period in anthracite coal mines, Pennsylvania, 1919 and 1920, by occupations (pp. 30 and 31).

TABLE D.—Number and per cent of employees working each specified per cent of full time in a half-month pay-roll period in bituminous coal mines, 1919, by occupations, and State (pp. 32 to 37).

TABLE E.—Average full-time hours, average hours actually worked, and number of employees working each classified number of actual hours in a half-month pay-roll period in anthracite coal mines, Pennsylvania, 1919 and 1920, by occupations (pp. 38 and 39).

TABLE F.—Average full-time hours, average hours actually worked, and number of employees working each classified number of actual hours in a half-month pay-roll period in bituminous coal mines, 1919, by occupations and States (pp. 40 to 48).

TABLE G.—Average earnings per hour, and number and per cent of employees earning each classified amount per hour in anthracite coal mines, Pennsylvania, 1919 and 1920, by occupations (pp. 49 to 53).

TABLE H.—Average earnings per hour, and number and per cent of employees earning each classified amount per hour in bituminous coal mines, 1919, by occupations and States (pp. 54 to 71).

TABLE J.—Average full-time earnings, average earnings actually received, and number of employees earning each classified amount in a half-month pay-roll period, anthracite coal mines, Pennsylvania, 1919 and 1920, by occupations (pp. 72 to 74).

TABLE K.—Average full-time earnings, average earnings actually received, and number of employees earning each classified amount in a half-month pay-roll period, in bituminous coal mines, 1919, by occupations and States (pp. 75 to 83).

TABLE L.—Number of employees working each classified number of actual hours and earning each classified amount in a half-month pay-roll period, in specified occupations and in all occupations, anthracite coal mines, Pennsylvania, 1919 (pp. 84 to 95).

TABLE M.—Number of employees working each classified number of actual hours and earning each classified amount in a half-month pay-roll period, in specified occupations and in all occupations, bituminous coal mines, 1919 (pp. 96 to 103).

TABLE N.—Number of employees working each classified number of actual hours and earning each classified amount in a half-month pay-roll period, in specified occupations and in all occupations, anthracite coal mines, Pennsylvania, 1920 (pp. 104 to 110).

TABLE A.—AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK IN ANTHRACITE COAL MINES, PENNSYLVANIA, 1919 AND 1920, BY OCCUPATIONS.

Occupation	Year.	Number of mines.	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—									
					48	54	56	60	63	70	72	77	84	91
<i>Inside work.</i>														
Blacksmiths.....	1919	13	30	48.0	30									
	1920	8	20	48.0	20									
Bratticemen.....	1919	17	116	48.0	116									
	1920	14	111	48.0	111									
Cagers.....	1919	22	234	48.4	231						2		1	
	1920	16	197	48.6	192	2							3	
Car runners.....	1919	17	342	48.0	340	2								
	1920	15	233	48.0	233									
Door tenders (boys).....	1919	20	247	48.0	247									
	1920	14	156	48.0	156									
Drivers.....	1919	22	479	48.0	479									
	1920	14	272	48.0	272									
Engineers.....	1919	17	121	50.7	101	12					5		3	
	1920	14	100	50.5	69	31								
Laborers.....	1919	22	1,200	48.9	1,165	2	5				2		25	1
	1920	16	736	48.1	728	5	1			2				
Laborers, company miners ¹	1919	19	632	48.0	632									
	1920	9	308	48.0	308									
Laborers, consideration miners ²	1920	10	202	48.0	202									
Laborers, contract miners ²	1919	21	1,855	48.0	1,855									
	1920	14	1,191	48.0	1,191									
Machinists.....	1919	11	67	51.4	39	26							2	
	1920	9	19	48.0	19									
Masons.....	1919	12	41	48.0	41									
	1920	6	29	48.0	29									
Miners, company.....	1919	19	656	48.0	656									
	1920	11	367	48.0	367									
Miners, consideration.....	1919	10	498	48.0	498									
	1920	10	480	48.0	480									
Miners, contract.....	1919	22	4,887	48.0	4,887									
	1920	16	3,188	48.0	3,188									
Motormen.....	1919	19	247	48.0	247									
	1920	15	202	48.0	202									
Motor brakemen.....	1919	18	190	48.0	190									
	1920	14	178	48.0	178									
Pumpmen.....	1919	21	104	78.5	3	1	13			4	1		82	
	1920	15	99	74.3	1	33							65	
Timbermen.....	1919	15	136	48.0	136									
	1920	13	97	48.0	97									
Trackmen.....	1919	22	163	48.0	163									
	1920	16	123	48.0	123									
Total.....	1919	22	12,245	48.4	12,056	31	30			4	10		113	1
	1920	16	8,308	48.4	8,166	7	65			2			68	

¹ Figures for 1919 include laborers, consideration miners'.² Figures for 1919 included with laborers, company miners'.

TABLE A.—AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK IN ANTHRACITE COAL MINES, PENNSYLVANIA, 1919 AND 1920, BY OCCUPATIONS—Concluded.

Occupation.	Year.	Number of mines	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—									
					48	54	56	60	63	70	72	77	84	91
<i>Outside work.</i>														
Ashmen.....	1919	19	72	53.5	50	.....	12	.....	.....	4	.....	1	5	.....
	1920	15	53	55.7	7	.....	44	.....	1	.....	.....	.....	.....	1
Blacksmiths.....	1919	22	60	48.0	60	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1920	16	39	48.0	39	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cagers.....	1919	22	119	48.6	117	.....	.....	.....	.....	.....	.....	.....	2	.....
	1920	15	84	49.7	80	.....	.....	.....	.....	.....	.....	.....	4	.....
Carpenters.....	1919	22	250	48.3	236	14	.....	.....	.....	.....	.....	.....	.....	.....
	1920	16	163	48.0	163	.....	.....	.....	.....	.....	.....	.....	.....	.....
Car runners.....	1919	15	83	48.0	83	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1920	10	46	48.0	46	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dumpers.....	1919	19	88	48.0	88	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1920	16	57	48.0	57	.....	.....	.....	.....	.....	.....	.....	.....	.....
Engineers.....	1919	22	248	52.1	181	.....	47	.....	1	.....	5	.....	14	.....
	1920	16	185	56.0	87	.....	68	4	2	1	.....	.....	23	.....
Firemen.....	1919	22	314	55.7	17	.....	295	.....	.....	2	.....	.....	.....	.....
	1920	16	217	55.6	14	.....	200	.....	1	2	.....	.....	.....	.....
Jig runners.....	1919	18	81	48.0	81	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1920	12	54	48.0	54	.....	.....	.....	.....	.....	.....	.....	.....	.....
Laborers.....	1919	22	1,211	49.3	1,161	.....	4	.....	.....	7	.....	.....	38	1
	1920	16	718	48.5	698	.....	8	1	4	1	1	.....	5	.....
Loaders.....	1919	21	199	48.0	199	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1920	16	142	48.0	142	.....	.....	.....	.....	.....	.....	.....	.....	.....
Machinists.....	1919	20	112	48.0	112	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1920	14	117	48.4	115	.....	1	.....	.....	.....	.....	.....	1	.....
Oilers.....	1919	21	77	48.0	77	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1920	15	42	48.0	42	.....	.....	.....	.....	.....	.....	.....	.....	.....
Platemen.....	1919	21	180	48.0	180	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1920	14	112	48.0	112	.....	.....	.....	.....	.....	.....	.....	.....	.....
Repairmen.....	1919	10	113	48.0	113	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1920	5	21	48.0	21	.....	.....	.....	.....	.....	.....	.....	.....	.....
Slaters (boys).....	1919	21	580	48.0	580	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1920	15	345	48.0	345	.....	.....	.....	.....	.....	.....	.....	.....	.....
Timber cutters.....	1919	19	115	48.0	115	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1920	14	92	48.0	92	.....	.....	.....	.....	.....	.....	.....	.....	.....
Trackmen.....	1919	14	28	48.0	28	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1920	8	26	48.0	26	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	1919	22	3,930	49.4	3,478	14	358	.....	1	13	5	1	59	1
	1920	16	2,513	49.6	2,140	.....	321	5	8	4	1	.....	33	1
Grand total.....	1919	22	16,175	48.6	15,534	45	388	.....	1	17	15	1	172	2
	1920	16	10,821	48.7	10,306	7	386	5	8	6	1	.....	101	1

TABLE B.—AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Con.

[illegible]

TABLE B.—AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Con.

Occupation and State.	Number of mines	Number of employees.	Average full-time hours per week.	Number of employees whose full-time hours per week were—															
				48	54	56	57	60	63	65	68	70	72	77	80	84	91		
Outside work—Concl'd.																			
Carpenters—Concl'd.																			
Wyoming.....	3	4	48.0	4															
Other States.....	1	3	48.0	3															
Total.....	110	260	50.6	163	82			13	1			1							
Engineers:																			
Alabama.....	4	12	54.0	7		5													
Colorado.....	17	51	54.9	9	21	12		1	8										
Illinois.....	16	56	54.4	13		41			2										
Indiana.....	11	23	60.9			17						4					2	2	
Iowa.....	11	20	58.6	4	7	2						1					1		
Kansas.....	12	15	62.9	1		1			12										
Kentucky.....	5	6	62.3	2	1							2					1		
Maryland.....	5	7	54.9			6													
Missouri.....	11	21	59.5	2	4	7											2		
New Mexico.....	3	29	53.8	13	8				6	8									
Ohio.....	4	7	70.1	1		1							1				3		
Oklahoma.....	8	17	68.3						11								5		
Pennsylvania.....	20	49	56.5	16	1	22		3		3							4		
Tennessee.....	6	18	52.8	4	10	3											1		
Utah.....	7	29	52.2	13	3	13													
West Virginia.....	5	10	64.6	2	1	2		1					1				3		
Wyoming.....	4	8	51.0	5		3													
Other States.....	1	2	48.0	2															
Total.....	150	380	56.9	102	49	136		5	52	3		7	2				24		
Firemen:																			
Alabama.....	4	32	54.5	15		17													
Colorado.....	13	31	61.5	4	4	14											7		
Illinois.....	15	64	53.8	18		46			2										
Indiana.....	11	30	75.8									15	3				12	2	
Iowa.....	7	8	59.0	4		2											2		
Kansas.....	9	25	56.0			25													
Kentucky.....	8	19	70.1	3								9	2	1			4		
Maryland.....	4	25	53.8	7		18													
Missouri.....	8	14	56.9	3	1	7			2							1			
Ohio.....	6	14	56.0			14													
Oklahoma.....	6	24	55.0	3		21													
Pennsylvania.....	16	110	57.8			102											7		
Tennessee.....	4	11	59.5			8		1	1								1		
Utah.....	6	18	53.8	5		13													
West Virginia.....	3	11	65.1			7							1				3		
Other States.....	2	7	56.0			7													
Total.....	122	443	58.5	62	5	301		2	5			24	6	1		1	36		
Laborers:																			
Alabama.....	5	140	48.0	140															
Colorado.....	18	257	53.5	26	230												1		
Illinois.....	16	251	48.0	251															
Indiana.....	10	122	48.0	122															
Iowa.....	11	72	48.0	72															
Kansas.....	12	48	48.0	48															
Kentucky.....	19	245	48.1	242	3														
Maryland.....	5	57	48.0	57															
Missouri.....	10	62	48.0	62															
New Mexico.....	6	114	54.1		113			1											
Ohio.....	13	146	48.0	146															
Oklahoma.....	8	47	48.0	47															
Pennsylvania.....	31	804	50.0	643	104				38		2			10	3		4		
Tennessee.....	6	117	48.0	117															
Utah.....	7	129	48.0	129															
Virginia.....	4	42	48.0	42															
West Virginia.....	13	162	51.9	57	105														
Wyoming.....	4	45	48.0	45															
Total.....	198	2,860	49.5	2,246	555			38	1	2		10	3				5		
Total outside.....	201	4,319	51.3	2,813	804	437		72	60	5		35	23	4		1	65		
Total inside and outside.....	201	40,508	48.8	37,344	1442	639	2	859	68	6	1	39	26	4	1	1	75	1	

TABLE C.—NUMBER AND PER CENT OF EMPLOYEES WORKING EACH SPECIFIED PER CENT OF FULL TIME IN A HALF-MONTH PAY-ROLL PERIOD IN ANTHRACITE COAL MINES, PENNSYLVANIA, 1919 AND 1920, BY OCCUPATIONS.

Occupation.	Year.	Number of mines.	Number of employees.	Number of employees whose actual hours of work in relation to full-time hours were—						Per cent of employees whose actual hours of work in relation to full-time hours were—							
				Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.	Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.		
<i>Inside work.</i>																	
Blacksmiths.....	1919	13	30	1	1		2	1	25	3	3		7	3	83		
	1920	8	20			1	3	4	12			5	15	20	60		
Bratticemen.....	1919	17	116	1	4	10	27	24	50	1	3	9	23	21	43		
	1920	14	111			12	23	9	66	1		11	21	8	59		
Cagers.....	1919	22	234	5	7	9	33	19	161	2	3	4	14	8	69		
	1920	16	197	1	2	19	28	14	133	1	1	16	14	7	68		
Car runners.....	1919	17	342	11	15	23	69	51	173	3	4	7	20	15	50		
	1920	15	233	4	6	10	69	17	127	2	3	4	30	7	55		
Doortenders (boys).	1919	20	247	4	9	15	67	70	82	2	3	4	27	28	33		
	1920	14	156	4	2	16	63	42	29	3	1	16	40	27	19		
Drivers.....	1919	22	479	20	18	25	123	105	188	4	4	5	26	22	39		
	1920	14	272	7	10	28	99	27	161	3	4	10	36	10	37		
Engineers.....	1919	17	121	2		1	13	17	88	2		1	11	14	73		
	1920	14	100	2	3	5	19	25	46	2	3	5	19	25	46		
Laborers.....	1919	22	1200	51	73	86	266	247	477	4	6	7	22	21	40		
	1920	16	736	35	27	67	173	110	324	5	4	9	24	15	44		
Laborers, company miners ¹	1919	19	632	31	34	53	180	108	226	5	5	8	28	17	36		
	1920	9	308	11	19	21	91	39	127	4	6	7	30	13	41		
Laborers, consideration miners ²	1920	10	202	13	10	26	71	57	25	6	5	13	35	28	12		
Laborers, contract miners ¹	1919	21	1855	255	209	353	740	149	149	14	11	19	40	8	8		
	1920	14	1191	125	113	215	566	96	76	10	9	18	48	8	6		
Machinists.....	1919	11	67	3	5	7	18		34	4	7	10	27		51		
	1920	9	19	1					18	5					95		
Masons.....	1919	12	41		1	1	8	16	15		2	2	20	39	37		
	1920	6	29			1	9	9	10			3	31	31	34		
Miners, company.....	1919	19	656	70	71	71	134	75	235	11	11	11	20	11	35		
	1920	11	387	43	23	33	87	54	127	12	6	9	24	15	35		
Miners, consideration.....	1919	10	498	23	22	61	124	107	161	5	4	12	25	21	32		
	1920	10	480	16	28	77	147	131	81	3	6	16	31	27	17		
Miners, contract.....	1919	22	4887	141	237	697	2731	406	675	3	5	14	56	8	14		
	1920	16	3188	48	139	599	1729	390	283	2	4	19	54	12	9		
Motormen.....	1919	19	247	3	6	9	20	5	204	1	2	4	8	2	83		
	1920	15	202	3	4	6	28	3	158	1	2	3	14	1	78		
Motor brakemen.....	1919	18	190	5	4	9	38	12	122	3	2	5	20	6	64		
	1920	14	178	4	5	18	31	5	115	2	3	10	17	3	65		
Pumpmen.....	1919	21	104	1	5	4	9	51	34	1	5	4	9	49	33		
	1920	15	99	3		3	17	34	42	3		3	17	34	42		
Timbermen.....	1919	15	136	12	10	8	31	17	58	9	7	6	23	12	43		
	1920	13	97	2	10	6	20	20	39	2	10	6	21	21	40		
Trackmen.....	1919	22	163	2	3	11	35	22	90	1	2	7	21	13	55		
	1920	16	123		1	4	25	19	74		1	3	20	15	60		
Total inside.....	1919	22	12215	641	734	1453	4668	1502	3247	5	6	12	38	12	27		
	1920	16	8308	323	402	1167	3298	1105	2013	4	5	14	40	13	24		

¹ Figures for 1919 include laborers, consideration miners'.

² Figures for 1919 included with laborers, company miners'.

TABLE C.—NUMBER AND PER CENT OF EMPLOYEES WORKING EACH SPECIFIED PER CENT OF FULL TIME IN A HALF-MONTH PAY-ROLL PERIOD IN ANTHRACITE COAL MINES, PENNSYLVANIA, 1919 AND 1920, BY OCCUPATIONS—Concluded.

Occupation.	Year.	Number of mines.	Number of employees.	Number of employees whose actual hours of work in relation to full-time hours were—						Per cent of employees whose actual hours of work in relation to full-time hours were—					
				Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.	Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.
<i>Outside work.</i>															
Ashmen.....	1919	19	72	2	1	2	16	11	40	3	1	3	22	15	56
	1920	15	53	2	.....	5	9	16	21	4	.....	9	17	30	40
Blacksmiths.....	1919	22	60	3	3	4	3	7	40	5	5	7	5	12	67
	1920	16	39	1	.....	1	5	5	27	3	.....	3	13	13	69
Cagers.....	1919	22	119	.....	.....	3	12	20	84	.....	.....	3	10	17	71
	1920	15	84	.....	.....	3	20	4	53	.....	.....	5	24	5	63
Carpenters.....	1919	22	250	6	15	17	16	6	190	2	6	7	6	2	76
	1920	16	163	2	2	3	22	8	126	1	1	2	13	5	77
Car runners.....	1919	15	83	2	4	8	23	9	37	2	5	10	28	11	45
	1920	10	46	.....	.....	3	19	4	20	.....	.....	7	41	9	43
Dumpers.....	1919	19	88	5	5	4	21	4	49	6	6	5	24	5	56
	1920	16	57	1	1	1	11	9	34	2	2	2	19	16	60
Engineers.....	1919	22	248	2	4	5	19	35	183	1	2	2	8	14	74
	1920	16	185	.....	.....	3	20	62	97	.....	.....	2	11	34	52
Firemen.....	1919	22	314	10	5	16	73	75	135	3	2	5	23	24	43
	1920	16	217	1	.....	10	51	66	89	(3)	.....	5	24	30	41
Jig runners.....	1919	18	81	3	2	1	11	11	53	4	2	1	14	14	65
	1920	12	54	1	.....	.....	7	18	28	2	.....	1	13	33	52
Laborers.....	1919	22	1211	40	48	79	235	142	667	3	4	7	19	12	55
	1920	16	718	15	23	45	174	94	367	2	3	6	24	13	51
Loaders.....	1919	21	199	4	5	8	38	19	125	2	3	4	19	10	63
	1920	16	142	3	3	14	25	27	70	2	2	10	18	19	49
Machinists.....	1919	20	112	3	6	4	10	3	86	3	5	4	9	3	77
	1920	4	117	1	.....	3	4	6	103	2	.....	3	3	.....	83
Oilers.....	1919	21	77	1	1	1	17	8	49	1	1	1	22	10	64
	1920	15	42	1	1	2	7	5	26	2	2	5	17	12	62
Platemen.....	1919	21	180	8	4	10	41	22	95	4	2	6	23	12	53
	1920	14	112	.....	.....	3	31	15	61	.....	.....	2	28	13	54
Repairmen.....	1919	10	113	2	4	6	13	17	71	2	4	5	12	15	63
	1920	5	21	.....	.....	.....	2	9	10	.....	.....	.....	10	43	48
Slaters (boys).....	1919	21	580	14	21	50	269	92	134	2	4	9	46	16	23
	1920	15	345	9	13	32	131	95	65	3	4	9	38	28	19
Timber cutters.....	1919	19	115	2	1	2	10	13	87	2	1	2	9	11	76
	1920	14	92	3	1	3	15	6	64	3	1	3	16	7	70
Trackmen.....	1919	14	28	1	1	2	3	6	15	4	4	7	11	21	54
	1920	8	26	.....	.....	2	4	2	18	.....	.....	8	15	8	69
Total outside.....	1919	22	3930	108	130	222	830	500	2140	3	3	6	21	13	54
	1920	16	2513	40	53	133	557	451	1279	2	2	5	22	18	51
Total inside and outside.....	1919	22	16175	749	864	1675	5498	2002	5387	5	5	10	34	12	33
	1920	16	10821	363	455	1300	3855	1556	3292	3	4	12	36	14	30

³ Less than one-half of 1 per cent.

TABLE D.—NUMBER AND PER CENT OF EMPLOYEES WORKING EACH SPECIFIED PER CENT OF FULL TIME IN A HALF-MONTH PAY-ROLL PERIOD IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES.

Occupation and State.	Number of mines.	Number of employees.	Number of employees whose actual hours of work in relation to full-time hours were—						Per cent of employees whose actual hours of work in relation to full-time hours were—					
			Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.	Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.
<i>Inside work.</i>														
Brakemen:														
Alabama.....	4	18	2		1	5		10	11		6	28		56
Colorado.....	15	71	5	9	16	28	5	8	7	13	23	39	7	11
Illinois.....	12	100	10	13	51	26		10	13	51	26			
Indiana.....	7	51		5	19	19	2	6		10	37	37	4	12
Iowa.....	5	10			5	4		1			50	40		10
Kansas.....	6	22	3	2	12	2		3	14	9	55	9		14
Kentucky.....	18	124	5	9	16	66	9	19	4	7	13	53	7	15
Maryland.....	5	29		2	12	11		4		7	41	38		14
Missouri.....	3	14	1	1	4	7	1		7	7	29	50	7	
New Mexico.....	6	27	1	1	18	6		1	4	4	67	22		4
Ohio.....	7	36	2	2	3	20		9	6	6	8	56		25
Oklahoma.....	2	6			1	2		3			17	33		50
Pennsylvania.....	28	289	21	20	87	125	9	27	7	7	30	43	3	9
Tennessee.....	5	33	3	5	13	9		3	9	15	39	27		9
Utah.....	7	19		2	9	5		3		11	47	26		16
Virginia.....	4	65	13	15	16	17		4	20	23	25	26		6
West Virginia.....	12	91	6	15	31	32	2	5	7	16	34	35	2	5
Total.....	146	1,005	72	101	314	384	28	106	7	10	31	38	3	11
Bratticemen and timbermen:														
Alabama.....	5	24	5	5	1	8	1	4	21	21	4	33	4	17
Colorado.....	14	57	2	5	12	25	8	5	4	9	21	44	14	9
Illinois.....	14	156	13	10	36	79	7	11	8	6	23	51	4	7
Indiana.....	9	44	2	1	4	15	7	15	5	2	9	34	16	34
Iowa.....	8	64	2	1	12	21	2	26	3	2	19	33	3	41
Kansas.....	11	34	3	3	12	9	1	9		9	35	26	3	26
Kentucky.....	15	56	4	5	6	26	6	9	7	9	11	46	11	16
Maryland.....	5	46	2	4	22	12	2	4	4	9	48	26	4	9
Missouri.....	4	19		1	5	12	1			5	26	63	5	
New Mexico.....	5	23		1	4	11		7		4	17	48		30
Ohio.....	11	70		2	3	20	14	31		3	4	29	20	44
Oklahoma.....	6	51	2	2	5	21	4	17	4	4	10	41	8	33
Pennsylvania.....	29	172	5	13	45	69	12	28	3	8	26	40	7	16
Tennessee.....	4	18	1		4	8	4	1	6		22	44	22	6
Utah.....	5	10		2	1	2	3	2		20	10	20	30	20
Virginia.....	4	19	6	3	1	9			32	16	5	47		
West Virginia.....	10	54	1	1	11	23	5	13	2	2	20	43	9	24
Wyoming.....	4	15	2	3	8	2			13	20	53	13		
Total.....	163	932	47	62	192	372	77	182	5	7	21	40	8	20
Cagers:														
Colorado.....	6	15			5	5	2	3			33	33	13	20
Illinois.....	16	39	1	1	10	16	3	8	3	3	26	41	8	21
Indiana.....	11	43	2	1	19	13		8	5	2	44	30		19
Iowa.....	11	19	3	1	4	3		8	16	5	21	16		42
Kansas.....	12	31		2	11	13	1	4		6	35	42	3	13
Maryland.....	2	2			1	1		1			50			50
Missouri.....	8	16	2	1	7	5		1	13	6	44	31		6
Ohio.....	5	11		1	2	1		7		9		18	9	64
Pennsylvania.....	13	32		1	8	15	1	7		3	25	47	3	22
Wyoming.....	2	5			3	1		1			60	20		20
Other States.....	4	7				6		1			86			14
Total.....	90	220	8	8	67	80	8	49	4	4	30	36	4	22

TABLE D.—NUMBER AND PER CENT OF EMPLOYEES WORKING EACH SPECIFIED PER CENT OF FULL TIME IN A HALF-MONTH PAY-ROLL PERIOD IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Continued.

Occupation and State.	Number of mines.	Number of employees.	Number of employees whose actual hours of work in relation to full-time hours were—						Per cent of employees whose actual hours of work in relation to full-time hours were—					
			Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.	Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.
Inside work—Contd.														
Drivers:														
Alabama.....	5	180	15	28	33	71	6	27	8	16	18	39	3	15
Colorado.....	17	212	16	21	81	77	4	13	8	10	38	36	2	6
Illinois.....	16	380	34	48	182	106	2	8	9	13	48	28	1	2
Indiana.....	9	142	15	12	40	60	7	8	11	8	28	42	5	6
Iowa.....	11	99	5	7	9	32	1	15	5	7	39	32	1	15
Kansas.....	12	119	5	9	51	41	2	11	4	8	43	34	2	9
Kentucky.....	14	135	5	8	47	60	3	12	4	6	35	44	2	9
Maryland.....	4	32	.....	3	18	9	.....	2	.....	9	56	28	.....	6
Missouri.....	8	90	19	4	42	18	4	3	21	4	47	20	4	3
New Mexico.....	6	118	13	10	48	39	5	3	11	8	41	33	4	3
Ohio.....	12	208	7	14	26	60	21	80	3	7	13	29	10	38
Oklahoma.....	8	103	4	11	13	55	6	14	4	11	13	53	6	14
Pennsylvania.....	18	354	22	17	141	123	22	29	6	5	40	35	6	8
Tennessee.....	6	52	4	6	16	16	1	9	8	12	31	2	17	.....
Utah.....	7	62	3	12	33	14	.....	.....	5	19	53	23	.....	.....
Virginia.....	2	8	2	1	3	2	.....	.....	25	13	38	25	.....	.....
West Virginia.....	6	46	6	6	14	15	.....	5	13	30	33	3	11	9
Wyoming.....	4	32	2	6	12	4	5	3	6	19	38	13	16	9
Total.....	165	2,372	177	223	839	802	89	242	7	9	35	34	4	10
Laborers:														
Alabama.....	5	107	12	23	25	25	8	14	11	21	23	23	7	13
Colorado.....	11	123	10	11	19	51	15	17	8	9	15	41	12	14
Illinois.....	16	404	80	57	125	114	8	20	20	14	31	28	2	5
Indiana.....	9	150	6	7	26	43	15	53	4	5	17	29	10	35
Iowa.....	10	64	4	3	19	18	8	12	6	5	30	28	13	19
Kansas.....	8	30	2	1	5	16	3	3	7	3	17	53	10	10
Kentucky.....	13	182	24	27	39	55	10	27	13	15	21	30	5	15
Maryland.....	5	51	2	6	25	12	2	4	4	12	49	24	4	8
Missouri.....	9	120	40	15	30	27	.....	8	33	13	25	23	.....	7
New Mexico.....	5	41	2	2	12	15	2	8	5	5	29	37	5	20
Ohio.....	11	97	8	9	20	22	10	28	8	9	21	23	10	29
Oklahoma.....	3	26	.....	1	2	9	1	13	.....	4	8	35	4	50
Pennsylvania.....	30	635	31	56	169	221	39	119	5	9	27	35	6	19
Tennessee.....	5	66	10	5	26	13	5	7	15	8	39	20	8	11
Utah.....	7	44	7	5	11	15	4	2	16	11	25	34	9	5
Virginia.....	3	30	9	9	7	4	.....	1	30	30	23	13	.....	3
West Virginia.....	10	116	9	19	32	30	5	21	8	16	24	26	4	18
Wyoming.....	4	33	1	2	20	8	.....	2	3	6	61	24	.....	6
Total.....	164	2,319	257	258	612	698	135	359	11	11	26	30	6	15
Loaders:														
Alabama.....	2	307	37	61	84	122	1	2	12	20	27	40	(1)	1
Colorado.....	8	389	44	84	119	107	.....	35	11	22	31	28	.....	9
Illinois.....	9	2,049	107	461	1,319	162	.....	.....	5	22	64	8	.....	.....
Indiana.....	7	1,098	49	161	768	120	.....	.....	4	15	70	11	.....	.....
Iowa.....	2	67	7	12	35	13	.....	.....	10	18	52	19	.....	.....
Kentucky.....	17	1,391	163	288	611	326	3	.....	12	21	44	23	(1)	.....
Missouri.....	6	283	11	91	149	31	.....	1	4	32	53	11	.....	(1)
New Mexico.....	5	132	2	12	59	38	2	19	2	9	45	29	2	14
Ohio.....	13	1,970	69	155	702	830	200	14	4	8	36	42	10	1
Oklahoma.....	2	135	2	24	67	42	.....	.....	1	18	50	31	.....	.....
Pennsylvania.....	28	4,117	172	615	1,985	1,227	86	32	4	15	48	30	2	1
Tennessee.....	4	119	11	31	64	12	.....	.....	1	9	26	54	10	1
Utah.....	5	235	18	44	126	46	.....	1	8	19	54	20	.....	(1)
Virginia.....	4	230	35	36	92	59	1	7	15	16	40	26	(1)	3
West Virginia.....	13	749	77	180	371	115	1	5	10	24	50	15	(1)	1
Wyoming.....	3	74	12	18	27	16	1	.....	16	24	36	22	1	.....
Total.....	128	13,345	816	2,273	6,578	3,266	295	117	6	17	49	24	2	1

• Less than one-half of 1 per cent.

TABLE D.—NUMBER AND PER CENT OF EMPLOYEES WORKING EACH SPECIFIED PER CENT OF FULL TIME IN A HALF-MONTH PAY-ROLL PERIOD IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Continued.

Occupation and State.	Number of mines.	Number of employees.	Number of employees whose actual hours of work in relation to full-time hours were—						Per cent of employees whose actual hours of work in relation to full-time hours were—					
			Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.	Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.
<i>Inside work—Contd.</i>														
Miners, hand:														
Alabama.....	4	455	33	67	196	174	25	18	7	15	30	38	5	4
Colorado.....	16	1,268	91	295	509	263	15	8	7	23	47	21	1	1
Illinois.....	8	1,669	57	322	1,009	281			3	19	60	17		
Indiana.....	4	525	7	48	258	161	51		1	9	49	31	10	
Iowa.....	11	962	47	109	765	41			5	11	80	4		
Kansas.....	12	1,482	77	556	734	115			5	38	50	8		
Kentucky.....	10	192	16	32	119	24	1		8	17	62	13	1	
Maryland.....	5	491	30	160	267	34			6	33	54	7		
Missouri.....	8	629	41	142	399	47			7	23	63	7		
New Mexico.....	6	528	29	49	261	142		47	5	9	49	27		9
Ohio.....	2	13	1		2	7	3		8		15	54	23	
Oklahoma.....	7	354	21	56	175	99	2	1	6	16	49	28	1	(1)
Pennsylvania.....	28	1,859	109	380	1,086	275	9		6	20	58	15	1	
Tennessee.....	7	367	20	65	267	15			5	18	73	4		
Utah.....	5	206	27	34	74	68		3	13	17	36	33		1
West Virginia.....	5	168	16	49	82	19	1		10	29	49	11	1	1
Wyoming.....	4	169	8	68	73	20			5	40	43	12		
Other States.....	1	42	9	12	20	1			21	29	48	2		
Total.....	143	11,379	639	2,444	6,325	1,786	107	78	6	21	56	16	1	1
Miners, machine:														
Colorado.....	11	66	1	9	29	24		3	2	14	44	36		5
Illinois.....	10	280	18	66	163	33			6	24	58	12		
Indiana.....	7	136	3	17	98	11		7	2	13	72	8		5
Iowa.....	2	12		1	7	4				8	58	33		
Kentucky.....	14	130	6	19	42	41	5	17	5	15	32	32	4	13
Missouri.....	6	112	10	11	68	16	6	1	9	10	61	14	5	1
New Mexico.....	5	35	1	3	16	12			3	9	46	34		9
Ohio.....	13	245	2	8	49	124	53	9	1	3	20	51	22	4
Oklahoma.....	2	12	1	2	3	3			8	17	25	25		25
Pennsylvania.....	26	546	19	43	213	227	16	28	3	8	39	42	3	5
Tennessee.....	3	15	2	1	5	6	1		13	7	33	40	7	
Utah.....	7	22	2	1	9	8			2	9	5	41	36	9
Virginia.....	4	27	4	2	5	13	1		2	15	7	19	4	7
West Virginia.....	8	62	4	6	12	21		19	6	10	19	34		31
Other States.....	2	21	1	3	8	8		1	5	14	38	38		5
Total.....	120	1,721	74	192	727	551	82	95	4	11	42	32	5	6
Motormen:														
Alabama.....	3	9	1		1	2		5	11		11	22		56
Colorado.....	12	42	1	2	18	14	1		6	2	5	43	33	2
Illinois.....	13	86	7	8	28	34	2		7	9	33	40	2	8
Indiana.....	11	60	5	8	18	19	5		5	8	13	30	32	8
Iowa.....	5	10			2	4					20	40		40
Kansas.....	9	15	1	3	5			5	7	20	33	7		33
Kentucky.....	19	113	3	11	13	52	8	26	3	10	12	46	7	23
Maryland.....	5	30		2	6	13		9		7	20	43		30
Missouri.....	3	12			2	10					17	83		
New Mexico.....	4	12			4	6					33	50		17
Ohio.....	13	58	1		1	13	9	34	2		2	22	16	59
Pennsylvania.....	30	272	7	11	74	105	11	64	3	4	27	39	4	24
Tennessee.....	3	21			6	10	2		3		29	48	10	14
Utah.....	6	20		1	10	5		4		15	50	25		20
Virginia.....	4	59	10	9	8	28		4	17	15	14	47		7
West Virginia.....	13	73	3	8	17	33	2	10	4	11	23	45	3	14
Other States.....	1	2						2						100
Total.....	154	894	39	63	213	349	40	190	4	7	24	39	4	21

¹Less than one-half of 1 per cent.

TABLE D.—NUMBER AND PER CENT OF EMPLOYEES WORKING EACH SPECIFIED PER CENT OF FULL TIME IN A HALF-MONTH PAY-ROLL PERIOD IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Continued.

Occupation and State.	Number of mines.	Number of employees.	Number of employees whose actual hours of work in relation to full-time hours were—						Per cent of employees whose actual hours of work in relation to full-time hours were—					
			Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.	Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.
Inside work—Concld.														
Pumpmen:														
Alabama.....	3	21	3	2	3	4	2	7	14	10	14	19	10	33
Colorado.....	13	24	.....	2	1	10	4	7	.....	8	4	42	17	29
Illinois.....	8	29	4	2	3	9	1	10	14	7	10	31	3	34
Indiana.....	9	11	.....	.....	.....	5	1	5	.....	.....	45	9	45	.....
Kentucky.....	12	41	5	4	9	10	4	9	12	10	22	24	10	22
Maryland.....	5	13	1	1	3	3	1	4	8	8	23	23	8	31
Missouri.....	6	8	.....	2	2	2	2	2	.....	25	25	25	25	25
New Mexico.....	3	4	.....	1	1	2	.....	.....	.....	25	50	.....	.....	.....
Ohio.....	6	10	.....	.....	2	6	.....	2	.....	20	60	.....	20	.....
Oklahoma.....	5	15	.....	.....	1	4	1	9	.....	7	27	7	60	.....
Pennsylvania.....	28	122	5	4	9	36	25	43	4	3	7	30	20	35
Tennessee.....	5	7	.....	2	.....	1	.....	4	.....	.....	29	14	.....	57
Utah.....	4	8	.....	.....	2	5	.....	2	13	.....	63	.....	25	.....
Virginia.....	2	15	4	2	4	2	.....	3	27	13	27	13	.....	25
West Virginia.....	3	8	.....	2	3	2	.....	1	.....	25	38	25	.....	13
Wyoming.....	3	5	.....	1	1	.....	2	1	.....	20	20	.....	40	20
Other States.....	2	3	.....	1	.....	.....	.....	2	.....	33	.....	.....	.....	67
Total.....	117	344	23	22	44	101	43	111	7	6	13	29	13	32
Trackmen:														
Alabama.....	5	18	3	1	3	7	1	3	17	6	17	39	6	47
Colorado.....	17	57	3	4	14	23	2	11	5	7	25	40	4	19
Illinois.....	15	90	8	19	69	75	13	6	4	10	36	39	7	3
Indiana.....	9	72	1	3	10	26	18	14	1	4	14	36	25	19
Iowa.....	11	30	1	1	8	12	.....	8	3	3	27	40	.....	27
Kansas.....	12	31	2	3	14	9	1	2	6	10	45	29	3	6
Kentucky.....	19	148	16	23	20	55	6	28	11	16	14	37	4	19
Maryland.....	5	14	1	1	2	7	1	2	7	7	14	50	7	14
Missouri.....	9	20	1	1	10	7	2	.....	5	50	35	10	.....	.....
New Mexico.....	6	27	2	1	6	8	3	7	.....	4	22	30	11	25
Ohio.....	13	67	.....	7	11	11	38	.....	.....	.....	10	16	16	57
Oklahoma.....	4	11	1	1	3	3	1	2	9	9	27	27	9	18
Pennsylvania.....	29	210	3	17	43	83	14	50	1	8	20	40	7	24
Tennessee.....	6	28	2	4	9	5	2	6	7	14	32	18	7	21
Utah.....	7	26	2	3	6	7	4	4	8	12	23	27	15	15
Virginia.....	4	62	12	10	20	14	.....	6	19	16	32	23	.....	.....
West Virginia.....	12	98	7	10	25	29	6	21	7	10	26	30	6	21
Wyoming.....	4	13	.....	5	5	7	1	.....	.....	38	54	8	.....	.....
Total.....	187	1,122	64	102	274	388	86	208	6	9	24	35	8	19
Trappers (boys):														
Alabama.....	4	36	2	2	10	16	1	5	6	6	28	44	3	14
Colorado.....	9	27	.....	6	11	7	2	1	.....	22	41	26	7	.....
Illinois.....	13	98	4	11	58	24	.....	1	4	11	59	24	.....	4
Indiana.....	9	40	1	2	30	5	.....	2	3	5	75	13	.....	5
Iowa.....	6	17	4	.....	13	.....	.....	24	.....	76	.....	.....	.....	.....
Kansas.....	4	9	.....	1	4	.....	.....	.....	11	44	44	.....	.....	.....
Kentucky.....	10	28	2	1	18	5	1	1	7	4	64	18	4	4
New Mexico.....	5	14	.....	1	3	9	.....	1	.....	7	21	64	.....	7
Ohio.....	12	88	.....	4	14	22	43	5	.....	5	16	25	49	6
Oklahoma.....	5	39	1	3	8	27	.....	3	3	8	21	69	.....	.....
Pennsylvania.....	8	32	1	1	6	21	.....	3	3	3	19	66	.....	9
Tennessee.....	5	42	.....	3	35	3	.....	1	.....	7	83	7	.....	2
Virginia.....	3	8	3	1	.....	4	.....	38	13	.....	50	.....	.....	.....
West Virginia.....	8	53	13	6	15	12	1	6	25	11	28	23	2	11
Other States.....	2	5	1	1	3	.....	.....	.....	20	20	60	.....	.....	.....
Total.....	103	536	32	43	228	159	48	26	6	8	43	30	9	5
Total inside.....	201	36,189	2,248	5,791	16,413	8,936	1,038	1,763	6	16	45	25	3	5

TABLE D.—NUMBER AND PER CENT OF EMPLOYEES WORKING EACH SPECIFIED PER CENT OF FULL TIME IN A HALF-MONTH PAY-ROLL PERIOD IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Continued.

Occupation and State.	Number of mines.	Number of employees.	Number of employees whose actual hours of work in relation to full-time hours were—						Per cent of employees whose actual hours of work in relation to full-time hours were—					
			Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.	Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.
<i>Outside work.</i>														
Blacksmiths:														
Alabama.....	4	10	2		2	4	1	1	20		20	40	10	10
Colorado.....	17	26		1		15	1	9		4		58	4	35
Illinois.....	16	43	4	3	5	11	2	18	9	7	12	26	5	42
Indiana.....	11	23				7		16				30		70
Iowa.....	9	16	1		3	2		10	6		19	13		63
Kansas.....	12	14				5		9		3		36		64
Kentucky.....	19	36	3	1	2	16	3	11	8	3	6	44	8	31
Maryland.....	5	7	1	1		4		1	14	14		57		14
Missouri.....	9	11			4	2	2	3			36	18	18	27
New Mexico.....	6	12			2	1	2	7			17	8	17	58
Ohio.....	13	28				6	2	20				21	7	71
Oklahoma.....	5	8				1	1	5		13		13	13	63
Pennsylvania.....	29	86	2	5	19	31	5	24	2	6	22	36	6	28
Tennessee.....	6	10			2	4		4			20	40		40
Utah.....	7	16			2	4	2	8			13	25	13	50
Virginia.....	2	3			1	2		8			33	67		
West Virginia.....	13	22		1	2	9	2	8		5	9	41	9	36
Wyoming.....	4	5			1	3		1			20	60		20
Total.....	187	376	13	13	45	127	23	155	3	3	12	34	6	41
Carpenters:														
Alabama.....	3	12	2	2	2	2	2	2	17	17	17	17	17	17
Colorado.....	12	20	2		2	6	6	4	10		10	30	30	20
Illinois.....	13	31	1		3	8	4	15	3		10	26	13	48
Indiana.....	2	4			1			3			25			75
Iowa.....	4	5	1	1	2			1	20	20	40			20
Kansas.....	2	2			1	1					50	50		
Kentucky.....	7	18	1		4	8	1	4	6		22	44	6	22
Maryland.....	5	8		1		5	1	1		13		63	13	13
Missouri.....	4	4	1		1	1		1	25		25			25
New Mexico.....	4	15	1		3	8	2	1	7		20	53	13	7
Ohio.....	8	15		1	1	2	1	10		7	7	13	7	67
Oklahoma.....	3	6		1		1	2	2		17		17	33	33
Pennsylvania.....	25	83	2	1	19	32	5	24	2	1	23	39	6	29
Tennessee.....	2	6			1	2	1	2			17	33	17	33
Utah.....	7	10				7		3			70			30
West Virginia.....	5	14			5	4		5			36	29		36
Wyoming.....	3	4				1	2	1			25	50	25	25
Other States.....	1	3			3						100			
Total.....	110	260	11	7	48	88	27	79	4	3	18	34	10	30
Engineers:														
Alabama.....	4	12	1			6	2	3	8			50	17	25
Colorado.....	17	51	1	2	7	16	10	15	2	4	14	31	20	29
Illinois.....	16	56		1	3	9	24	19		2	5	16	43	34
Indiana.....	11	23			1	1	20	1			4	4	87	4
Iowa.....	11	20		1	3	3	8	5		5	15	15	40	25
Kansas.....	12	15			1	5	2	7			7	33	13	47
Kentucky.....	5	6				2	3	1				30	50	17
Maryland.....	5	7				2	2	3				29	29	43
Missouri.....	11	21			2	8	7	4			10	38	33	19
New Mexico.....	3	29	1		11	9	8		3		38	31	28	
Ohio.....	4	7				2		5				29		71
Oklahoma.....	8	17		2	1	2	4	8		12	6	12	24	47
Pennsylvania.....	20	49	1	1	4	9	9	25	2	2	8	18	18	51
Tennessee.....	6	18			2	4	5	7			11	22	28	39
Utah.....	7	29	1	2	3	7	8	8	3	7	10	24	28	28
West Virginia.....	5	10		1		3	3	3		10		30	30	30
Wyoming.....	4	8		1	2	3		2		13	25	38		25
Other States.....	1	2			1	1					50			
Total.....	150	380	5	11	41	92	115	116	1	3	11	24	30	31

TABLE D.—NUMBER AND PER CENT OF EMPLOYEES WORKING EACH SPECIFIED PER CENT OF FULL TIME IN A HALF-MONTH PAY-ROLL PERIOD IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Concluded.

Occupation and State.	Number of mines.	Number of employees.	Number of employees whose actual hours of work in relation to full-time hours were—						Per cent of employees whose actual hours of work in relation to full-time hours were—					
			Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.	Under 25 per cent.	25 and under 50 per cent.	50 and under 75 per cent.	75 and under 100 per cent.	100 per cent.	Over 100 per cent.
Outside work—Concl'd.														
Firemen:														
Alabama.....	4	32	1	3	6	6	6	10	3	9	19	19	19	31
Colorado.....	13	31	1	1	3	7	11	8	3	3	10	23	35	26
Illinois.....	15	64	3	1	4	18	19	19	5	2	6	28	30	30
Indiana.....	11	30	1	.....	4	11	12	2	3	.....	13	37	40	7
Iowa.....	7	8	.....	.....	5	2	1	.....	.....	.....	63	25	13	.....
Kansas.....	9	25	1	1	1	6	3	13	4	4	4	24	12	52
Kentucky.....	8	19	1	.....	2	10	2	4	5	.....	11	53	11	21
Maryland.....	4	25	1	5	.....	6	12	1	4	20	.....	24	48	4
Missouri.....	8	14	1	2	7	2	.....	2	7	14	50	14	.....	14
Ohio.....	6	14	.....	.....	3	3	6	5	.....	.....	21	43	36	.....
Oklahoma.....	6	24	.....	1	3	12	1	7	.....	4	13	50	4	29
Pennsylvania.....	16	110	4	4	6	40	19	37	4	4	5	36	17	34
Tennessee.....	4	11	.....	2	1	4	1	3	.....	18	9	36	9	27
Utah.....	6	18	.....	1	2	3	8	4	.....	6	11	17	44	22
West Virginia.....	3	11	.....	.....	.....	.....	6	5	.....	.....	.....	55	45	.....
Other States.....	2	7	.....	1	1	2	3	.....	.....	14	14	29	43	.....
Total.....	122	443	14	22	45	132	110	120	3	5	10	30	25	27
Laborers:														
Alabama.....	5	140	17	12	13	58	9	31	12	9	9	41	6	22
Colorado.....	18	257	20	19	69	103	11	35	8	7	27	40	4	14
Illinois.....	16	251	12	17	74	82	7	59	5	7	29	33	3	24
Indiana.....	10	122	4	6	18	35	17	42	3	5	15	29	14	34
Iowa.....	11	72	4	6	18	28	1	15	6	8	25	39	1	21
Kansas.....	12	48	.....	2	11	22	3	10	.....	4	23	46	6	21
Kentucky.....	19	245	15	23	44	106	9	48	6	9	18	43	4	20
Maryland.....	5	57	.....	2	17	27	1	10	.....	4	30	47	2	18
Missouri.....	10	62	4	10	26	19	3	.....	6	16	42	31	5	.....
New Mexico.....	6	114	6	8	32	47	10	11	5	7	28	41	9	10
Ohio.....	13	146	5	3	15	52	23	48	3	2	10	36	16	33
Oklahoma.....	8	47	2	3	5	17	3	17	4	6	11	36	6	36
Pennsylvania.....	31	804	36	68	247	281	34	138	4	8	31	35	4	17
Tennessee.....	6	117	6	9	55	37	3	7	5	8	47	32	3	6
Utah.....	7	129	4	22	31	52	3	17	3	17	24	40	2	13
Virginia.....	4	42	3	5	11	20	1	2	7	12	26	48	2	5
West Virginia.....	* 13	162	13	17	57	42	1	32	8	10	35	26	1	20
Wyoming.....	4	45	6	1	12	12	2	12	13	2	27	27	4	27
Total.....	198	2,860	157	233	755	1,040	141	534	5	8	26	36	5	19
Total outside.....	201	4,319	200	286	934	1,479	416	1,004	5	7	22	34	10	23
Total inside and outside.....	201	40,508	2,448	6,077	17,347	104,151	1,454	2,767	6	15	43	26	4	7

TABLE E.—AVERAGE FULL-TIME HOURS, AVERAGE HOURS ACTUALLY WORKED, AND NUMBER OF EMPLOYEES WORKING EACH CLASSIFIED NUMBER OF ACTUAL HOURS IN A HALF-MONTH PAY-ROLL PERIOD IN ANTHRACITE COAL MINES, PENNSYLVANIA, 1919 AND 1920, BY OCCUPATIONS.

Occupation.	Year.	Number of mines.	Number of employees.	Average full-time hours in a half-month pay-roll period.	Average hours actually worked in a half-month pay-roll period.	Number of employees whose actual hours of work in a half-month pay-roll period were—																						
						Under 5.	5 and under 10.	10 and under 15.	15 and under 20.	20 and under 25.	25 and under 30.	30 and under 40.	40 and under 50.	50 and under 60.	60 and under 70.	70 and under 80.	80 and under 90.	90 and under 100.	100 and under 110.	110 and under 120.	120 and under 130.	130 and under 150.	150 and under 170.	170 and under 190.	190 and over.			
<i>Inside work.</i>																												
Blacksmiths.....	1919	13	30	112.0	124.7				1				1				1		1	7	6	7	4	2				
	1920	8	20	112.3	123.7										1			1	1	5	5	4	3					
Bratticemen.....	1919	17	116	112.0	111.9				1				3	2	1			11	11	35	18	14	8		1			
	1920	14	111	112.2	121.3		1								4	5	7	7	11	25	21	16	7	8	2			
Cagers.....	1919	22	234	112.8	126.9		1			3	1		4	3	1			3	6	7	21	38	40	46	31	21		
	1920	16	197	113.4	130.5				1				1	1				3	4	16	7	14	26	22	45	33	14	10
Car runners.....	1919	17	342	112.1	109.9		6	1	1	2	1	7	8	2	2	13	19	21	33	92	62	50	20	2				
	1920	15	233	112.1	116.1		1		1	1			4	4	2	5	5	12	50	44	37	49	14	3				
Door tenders (boys).....	1919	20	247	112.0	106.8				3		1	3	6		3	5	12	10	44	115	30	12	3					
	1920	14	156	112.0	102.5								1	3	1	7	15	11	42	54	15	2	1					
Drivers.....	1919	22	479	112.0	105.3	1	5			7	3	1																
	1920	14	272	112.0	106.1		1	1	1	3	1		3	14	6	4	9	20	35	64	191	69	37	6	1			
Engineers.....	1919	17	121	117.9	130.9		1		1																			
	1920	14	100	117.0	120.0					1	1	2	1					2	2	8	20	30	36	14	1			
Laborers.....	1919	22	1,200	113.9	107.3		13	9	10	15	6	28	35	23	20	27	56	71	130	367	166	136	50	17	21			
	1920	16	736	112.4	108.6	1	10	2	11	9	4	10	12	13	27	35	49	98	173	98	109	49	13	1				
Laborers, company miners ¹	1919	19	632	112.0	102.9		7	1	12	7	4	9	20	13	13	17	46	48	89	184	78	65	17	5				
	1920	9	308	112.5	105.7		6		4	1		10	5	9	4	5	14	21	55	83	49	29	9	4				
Laborers, consideration miners ²	1920	10	202	112.1	94.3	1	8		4				7	7	8	8	19	14	39	68	11	6	2					
Laborers, contract miners ³	1919	21	1,855	112.0	78.7	6	73	19	70	80	15	87	79	74	95	133	210	249	316	259	69	21						
	1920	14	1,191	112.0	82.1	1	55	10	21	36	9	43	46	44	53	96	166	202	249	169	32	8	1					
Machinists.....	1919	11	67	119.8	113.1				1	2			1	3	1	2	2		6	8	5	16	9	3				
	1920	9	19	112.1	145.9		1													1	3	7	2	4	1			
Masons.....	1919	12	41	112.0	112.0									1				1	4	2	19	10	2	1				
	1920	6	29	112.0	115.0													1	1	7	11	3	2	1				
Miners, company.....	1919	19	656	112.0	94.1		14	1	29	13	14	31	25	27	19	25	31	32	69	157	68	63	27	0	2			
	1920	11	367	112.8	97.9	4	9	7	12	3	8	15	4	15	9	19	21	42	85	45	32	13	12	3				
Miners, consideration.....	1919	10	498	112.0	101.4		7	3	4	2	8	8	9	24	23	15	21	32	50	162	75	49	2	1	2			
	1920	10	480	112.5	97.6				1	5	4	6	12	10	12	21	30	35	37	84	168	30	20	5				
Miners, contract.....	1919	22	4,887	112.0	94.5	1	31	24	35	36	21	72	86	119	174	296	530	894	1,166	1,071	233	74	13	5	6			
	1920	16	3,188	112.1	91.8		9	3	11	25	14	42	59	82	163	302	698	878	1,166	413	70	16	1					
Motormen.....	1919	19	247	112.0	130.4					2	1	4	2	2	2	3	6	7	6	31	50	67	49	14	1			
	1920	15	202	112.3	131.7		2					2	1	1	2		7	9	12	18	30	57	47	12	1			
Motor brakemen.....	1919	18	190	112.0	119.3				3	2		2	2		3	4	3	10	19	49	22	43	25	2	1			
	1920	14	178	112.2	116.1			1	1	1	1	1		6	4	7	9	10	15	22	35	50	15					

TABLE F.—AVERAGE FULL-TIME HOURS, AVERAGE HOURS ACTUALLY WORKED, AND NUMBER OF EMPLOYEES WORKING EACH CLASSIFIED NUMBER OF ACTUAL HOURS IN A HALF-MONTH PAY-ROLL PERIOD IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES.

Occupation and State.	Number of mines.	Number of employees.	Average full-time hours in a half-month pay-roll period.	Average hours actually worked in a half-month pay-roll period.	Number of employees whose actual hours of work in a half-month pay-roll period were—																			
					Under 5.	5 and under 10.	10 and under 15.	15 and under 20.	20 and under 25.	25 and under 30.	30 and under 40.	40 and under 50.	50 and under 60.	60 and under 70.	70 and under 80.	80 and under 90.	90 and under 100.	100 and under 110.	110 and under 120.	120 and under 130.	130 and under 150.	150 and under 170.	170 and under 190.	190 and over.
Inside work.																								
Brakemen:																								
Alabama.....	4	18	85.3	81.3		1			1						4	7	1	2	1	1				
Colorado.....	15	71	104.0	76.7		1	1	3		1	2	6	3	9	23	14	10	10	4	1	1			
Illinois.....	12	100	104.0	63.1	1	3		4	1	1	5	8	10	20	29	19	5							
Indiana.....	7	51	80.0	57.9					2		3	15	4	10	9	6	2							
Iowa.....	5	10	104.0	81.7									1	1	4	2	2			1				
Kansas.....	6	22	104.0	62.3			1	2		1			1	6	5	2	1			3				
Kentucky.....	18	124	106.6	85.3		1		3	1	1	2	6	2	6	10	31	30	18	11	1		1		
Maryland.....	5	29	104.0	82.3								1	1	9	4	7	3	1			1	2		
Missouri.....	3	14	104.0	76.0					1			1		2	2	5	2	1						
New Mexico.....	6	27	105.9	74.3				1				1	2	4	9	4	5			1				
Ohio.....	7	36	104.0	89.2			1		1	1		1	1		2	10	8	4	3	2	2			
Oklahoma.....	2	6	104.0	104.3										1			1	1	1	1	1			
Pennsylvania.....	28	289	112.0	84.2		6		6	5	5	9	7	15	31	33	40	41	44	13	10	19	3	2	
Tennessee.....	5	33	95.3	61.5			1	1	1			3	3	6	4	5	7	1	1					
Utah.....	7	19	104.0	76.9								2	3	3	4	1	3	1	2					
Virginia.....	4	65	104.0	58.9		1		7	4	1	7	8	4	7	5	8	6	4	3		4			
West Virginia.....	12	91	110.0	73.0		2		3		1	6	8	7	9	13	16	15	2	4	3	2			
Total.....	146	1,005	105.0	76.1	1	15	4	30	17	12	37	68	65	120	134	178	135	89	46	20	26	6	2	
Bratticemen and timbermen:																								
Alabama.....	5	24	92.0	57.5		3			3		1	4		3		7	2		1					
Colorado.....	14	57	104.0	82.8				2			2	3	2	5	5	9	14	11	3	1				
Illinois.....	14	156	104.0	77.1	1	5	1	3	3		3	7	6	12	19	43	32	11	6	2	2			
Indiana.....	9	44	80.0	74.4				2	1					6	9	17	2	2		1				
Iowa.....	8	64	104.0	99.9		1			1			1	3	1	8	3	8	14	11	8	3	1	1	
Kansas.....	11	34	104.0	87.6							1	1	2	4	7	6	2	3	3	3	1		1	
Kentucky.....	15	56	102.7	82.3		3			1		2	4		3	5	10	11	12	3		2			

Maryland.....	5	46	104.0	72.3	1					3	1	8	9	5	7	5	2	2		2						
Missouri.....	1	19	104.0	81.2							1	1	2	2	3	8	4	1								
New Mexico.....	5	23	104.0	92.2							1	1	2	1	1	6	4	1	1	6						
Ohio.....	11	70	104.0	106.3							1	1	2	1	2	4	13	25	8	5	8					
Oklahoma.....	6	51	104.0	92.7				1	1	1	1	1	4	1		12	9	6	9	3	3		1	1		
Pennsylvania.....	29	172	110.0	89.3	1		2	1	1		3	8	8	7	22	42	22	21	14	4	11	4				
Tennessee.....	4	18	81.3	66.9	1						1	1	2	4	5	4										
Utah.....	5	10	104.0	88.7							1	1	1		1	1	1	3		2						
Virginia.....	4	19	104.0	53.9	3	2		1	1		1	2			2	7		1								
West Virginia.....	10	54	111.0	98.2					1		1	1	1	3	4	8	13	9	5	4	2	3				
Wyoming.....	4	15	104.0	56.7			1	1			1	3	3	4	1		1	1	5	4						
Total.....	163	932	103.6	84.9	1	18	3	13	13	2	19	39	47	65	99	194	143	124	66	39	34	9	4			
Cagers:																										
Colorado.....	6	15	104.0	86.6									4	1		1	2	6	1							
Illinois.....	16	39	104.0	86.6	1						1		2	4	4	10	6	4	1	5	1					
Indiana.....	11	43	80.9	62.7		1	1	1			1	7	12	6	6	4	3		1	1						
Iowa.....	11	19	104.0	81.4	2	1					1	1	1	2	2		2	4	1	2	1					
Kansas.....	12	31	104.8	82.6								2	6	2	5	6	2	3	3							
Maryland.....	2	2	104.0	114.0												1										
Missouri.....	8	16	103.0	69.7	2						1			3	4	2	2	2								
Ohio.....	5	11	104.0	110.5								1					1	4		3	1	1				
Pennsylvania.....	13	32	108.3	95.6									1	4	4	2	7	6	1	5	2					
Wyoming.....	2	5	104.0	76.6									2	1			1	1								
Other States.....	4	7	104.0	100.4											1	4		1								
Total.....	90	220	100.2	82.6	5	2	1				2	12	28	23	26	30	26	31	8	18	6	1				
Drivers:																										
Alabama.....	5	180	93.9	67.7	3	1	5	9	1		10	16	9	17	36	46	22	3	2							
Colorado.....	17	212	104.0	71.2	3	2	6	5	2		2	16	26	32	25	48	24	13	6	1	1					
Illinois.....	16	380	104.0	64.7	11	2	10	10	3	18	26	69	69	52	51	37	16	4		2						
Indiana.....	9	142	80.0	55.9	8		7	4	1	7	15	25	33	27	13	2										
Iowa.....	11	99	104.7	79.3	2	1	1	1	1	3	4	8	14	17	12	11	13	5	4	3						
Kansas.....	12	119	104.0	75.4	1		1	3		2	7	9	23	21	23	10	12	5	1	1						
Kentucky.....	14	135	103.6	79.4	2	1	1	1	1	1	3	11	19	27	31	24	9	5	3	1	1					
Maryland.....	8	90	103.0	63.8							3	6	3		9		1									
Missouri.....	6	118	104.0	69.0			1	18	1	1	1	3	15	12	16	5			1	2						
New Mexico.....	12	208	104.0	91.4	4		2	3	2	1	2	7	7	8	20	23	16	19		1						
Oklahoma.....	8	103	104.0	84.1	1	1					2	5	3	5	8	20	25	14	7	23	17	15	2		1	1
Pennsylvania.....	18	354	110.3	82.2	1	10	1	7	3	1	4	10	15	23	77	80	38	26	31	11	8	5	1	3		
Tennessee.....	7	62	85.1	64.6				2		1	5	3	10	7	5	9	4									
Utah.....	7	62	104.0	64.2	1				1		2	10	7	18	8	6	6	2		1						
Virginia.....	2	8	104.0	53.1				1	1		1		1	1	1	2										
West Virginia.....	6	46	105.1	69.1	1			4	1		2	4	3	5	6	10	5	2	2	2	1					
Wyoming.....	4	32	104.0	69.7			2				3	3	6	1	5		5	5	3							
Total.....	165	2,372	102.3	73.1	2	49	8	57	66	15	74	142	232	311	375	404	269	181	94	46	34	7	5	1		

TABLE F.—AVERAGE FULL-TIME HOURS, AVERAGE HOURS ACTUALLY WORKED, AND NUMBER OF EMPLOYEES WORKING EACH CLASSIFIED NUMBER OF ACTUAL HOURS IN A HALF-MONTH PAY-ROLL PERIOD IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Continued.

Occupation and State.	Number of mines.	Number of employees.	Average full-time hours in a half-month pay-roll period.	Average hours actually worked in a half-month pay-roll period.	Number of employees whose actual hours of work in a half-month pay-roll period were—																			
					Under 5.	5 and under 10.	10 and under 15.	15 and under 20.	20 and under 25.	25 and under 30.	30 and under 40.	40 and under 50.	50 and under 60.	60 and under 70.	70 and under 80.	80 and under 90.	90 and under 100.	100 and under 110.	110 and under 120.	120 and under 130.	130 and under 150.	150 and under 170.	170 and under 190.	190 and over.
Inside work—Continued.																								
Laborers:																								
Alabama.....	5	107	88.7	59.3		7	1	3	5	2	10	18	7	10	12	13	9	7	2	1				
Colorado.....	11	123	104.0	82.8		4		1	5	1	3	7	2	6	12	21	25	20	9	5	1	1		
Illinois.....	16	404	104.2	60.2	29	33	2	8	8	5	15	34	49	39	45	68	36	16	6	6	2	3		
Indiana.....	9	150	80.2	71.9		3		3	2	2	2	17	10	17	26	45	12	3	4	3	1			
Iowa.....	10	64	104.0	82.5		3		1				3	4	9	6	6	8	17	5	1	1			
Kansas.....	8	30	105.6	88.1				2					3		4	3	8	6		3	1			
Kentucky.....	13	182	103.3	71.2		10	1	6	7	1	7	17	16	17	11	28	23	18	9	10	1			
Maryland.....	5	51	104.0	70.6				2			1	5	6	12	8	5	6	2		2	2			
Missouri.....	9	120	102.2	54.4		8	3	5	24		12	4	6	15	12	14	6	4	2	4		1		
New Mexico.....	5	41	104.0	83.4		1		1			1	1	1	7	4	6	9	2	4	2	2			
Ohio.....	11	97	104.0	82.6		1	1	3	3	1	2	6	5	6	9	9	9	20	11	9	2			
Oklahoma.....	3	26	104.0	105.2								1		1	1	4	4	3	1	8	3			
Pennsylvania.....	30	635	112.3	89.5		10		9	12	2	13	34	18	51	66	109	88	80	47	30	29	30	7	
Tennessee.....	5	66	97.5	63.5		1		6	3		4	3	9	10	8	14	2	3	1	2				
Utah.....	7	44	104.0	69.2				5	2			3	5	5	4	8	5	5		2				
Virginia.....	3	30	104.0	45.2	4	2	2		1		4	4	4	4		2	1	1	1					
West Virginia.....	10	116	106.9	78.6				7	2		6	11	12	13	8	11	12	14	7	5	4	2	2	
Wyoming.....	4	33	104.0	72.7		1						2	1	5	14	6	2	1		1				
Total.....	164	2,319	103.9	74.9	33	84	10	60	76	14	80	170	158	227	250	372	265	222	109	94	49	37	9	
Loaders:																								
Alabama.....	2	307	104.0	62.3		14	8	6	8	5	25	27	26	38	29	109	8	2	2					
Colorado.....	8	389	104.0	65.4	1	9	5	15	12	7	27	50	41	57	37	23	50	30	16	8	1			
Illinois.....	9	2,049	104.0	57.4	3	21	19	18	42	24	118	268	618	485	298	82	53							
Indiana.....	7	1,058	80.0	45.7	1	16	5	27	38	3	115	469	299	57	63									
Iowa.....	2	67	104.0	60.2		2		2	2	1	4	6	9	22	6	6	7							
Kentucky.....	17	1,391	104.0	58.9	7	26	30	40	54	36	82	153	233	228	202	179	104	17						
Missouri.....	6	233	104.0	56.9			4	4	3	6	22	56	82	44	31	14	13	4						
New Mexico.....	5	132	104.0	77.4	1	1				2	4	5	16	18	27	14	13	20	11					

TABLE F.—AVERAGE FULL-TIME HOURS, AVERAGE HOURS ACTUALLY WORKED, AND NUMBER OF EMPLOYEES WORKING EACH CLASSIFIED NUMBER OF ACTUAL HOURS IN A HALF-MONTH PAY-ROLL PERIOD IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Continued.

Occupation and State.	Number of mines.	Number of employees.	Average full-time hours in a half-month pay-roll period.	Average hours actually worked in a half-month pay-roll period.	Number of employees whose actual hours of work in a half-month pay-roll period were—																				
					Under 5.	5 and under 10.	10 and under 15.	15 and under 20.	20 and under 25.	25 and under 30.	30 and under 40.	40 and under 50.	50 and under 60.	60 and under 70.	70 and under 80.	80 and under 90.	90 and under 100.	100 and under 110.	110 and under 120.	120 and under 130.	130 and under 150.	150 and under 170.	170 and under 190.	190 and over.	
Inside work—Concluded.																									
Motormen:																									
Alabama.....	3	9	98.7	87.2	—	1	—	—	—	—	—	—	—	1	—	2	2	1	1	—	—	—	—	—	—
Colorado.....	12	42	104.0	80.4	—	—	—	—	1	—	—	1	5	10	4	9	5	1	5	—	—	—	—	—	—
Illinois.....	13	86	104.0	75.5	2	2	1	2	—	2	—	1	9	8	19	11	16	9	—	1	3	—	—	—	—
Indiana.....	11	60	80.0	54.6	—	3	—	2	1	—	7	14	4	8	11	9	1	—	—	—	—	—	—	—	—
Iowa.....	5	10	104.0	101.8	—	—	—	—	—	—	—	—	—	1	1	1	1	3	—	2	1	—	—	—	—
Kansas.....	9	15	104.0	76.5	—	—	—	1	—	—	—	—	—	2	3	—	—	2	1	2	—	—	—	—	—
Kentucky.....	19	113	104.0	87.7	—	—	—	—	3	1	3	7	4	3	8	19	25	26	6	4	3	1	—	—	—
Maryland.....	5	30	104.0	93.0	—	—	—	—	—	—	2	—	3	1	2	7	4	2	2	5	—	2	—	—	—
Missouri.....	3	12	104.0	85.8	—	—	—	—	—	—	—	—	—	—	2	7	3	—	—	—	—	—	—	—	—
New Mexico.....	4	12	104.0	86.4	—	—	—	—	—	—	—	—	—	2	4	1	3	—	1	1	—	—	—	—	—
Ohio.....	13	58	104.0	113.6	—	—	—	1	—	—	—	—	—	12	16	1	4	16	10	7	11	4	—	—	—
Pennsylvania.....	30	272	111.4	95.0	2	—	—	2	2	1	3	5	12	16	39	31	41	40	27	16	24	10	1	—	—
Tennessee.....	3	21	101.7	83.8	—	—	—	—	—	—	—	—	—	3	2	7	3	2	1	1	—	—	—	—	—
Utah.....	6	20	104.0	82.0	—	—	—	—	—	—	—	1	1	6	3	1	3	2	1	2	—	—	—	—	—
Virginia.....	4	59	104.2	66.1	—	4	2	4	—	4	1	3	4	3	4	14	8	6	2	—	—	—	—	—	—
West Virginia.....	13	73	112.1	88.5	—	—	—	1	2	—	1	4	7	3	8	14	8	10	5	1	5	2	1	1	—
Other States.....	1	2	104.0	143.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—
Total.....	154	894	105.3	86.5	2	12	3	13	9	8	17	39	53	66	111	137	127	120	62	43	49	20	2	1	—
Pumpmen:																									
Alabama.....	3	21	90.3	77.9	—	—	1	2	1	—	—	1	1	—	2	5	2	3	—	1	2	—	—	—	—
Colorado.....	13	24	110.4	103.0	—	—	—	—	—	—	—	2	—	1	—	1	5	4	4	4	2	1	—	—	—
Illinois.....	8	29	107.3	87.0	—	1	—	3	—	—	1	1	—	2	1	8	1	3	6	2	2	—	—	—	—
Indiana.....	9	11	104.9	104.6	—	—	—	—	—	—	—	—	—	—	1	2	2	2	1	3	3	—	—	—	—
Kentucky.....	12	41	122.7	92.6	—	3	1	—	1	1	2	1	1	3	2	4	4	1	5	4	8	—	1	—	—
Maryland.....	5	13	116.0	100.2	—	1	—	—	—	—	—	1	—	1	2	2	—	1	—	—	2	2	—	1	—
Missouri.....	6	8	108.0	96.1	—	—	—	—	—	—	—	—	—	2	—	1	—	—	2	1	—	—	—	—	—
New Mexico.....	3	4	120.0	84.0	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—
Ohio.....	6	10	126.0	116.9	—	—	—	—	—	—	—	—	—	1	1	1	—	—	1	—	—	2	1	—	—
Oklahoma.....	5	15	133.6	158.3	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1	1	2	3	3	3	—

Pennsylvania.....	28	122	126.5	118.9	1	1	2	2	2	3	3	5	8	9	9	40	16	11	5	5
Tennessee.....	5	7	101.6	100.6				1		1		1				2	1			
Utah.....	4	8	104.0	92.1			1					1	3	1	1	1				
Virginia.....	2	15	117.9	61.1	2	2		1	1	1	2	1	1	1		1		1		
West Virginia.....	3	8	116.6	86.1					2		2	1	1				1		1	
Wyoming.....	3	5	120.0	95.8					1							3				
Other States.....	2	3	112.0	91.0					1						1		1			
Total.....	117	344	118.0	104.1	8	4	5	5	2	8	11	4	17	17	25	35	29	28	65	9
Trackmen:																				
Alabama.....	5	18	98.7	72.7				3		1		1	3	6	2		1	1		
Colorado.....	17	57	104.0	81.6			2		1		3	5	6	9	12	9	4	2		
Illinois.....	15	190	104.0	73.9	6		1	1	1	5	13	14	27	29	48	23	18	3	1	
Indiana.....	9	72	80.0	70.8			1	2	1		6	4	7	19	28	4				
Iowa.....	11	30	104.0	89.6	1			1				4	4	4	3	8	3	2	3	1
Kansas.....	12	31	104.0	72.1	4			1		2	1	4	3	6	6	3	2	1	1	
Kentucky.....	19	148	103.8	77.3	1	1	8	3	1	11	9	5	13	5	26	24	16	9	8	1
Maryland.....	5	14	104.0	83.0	1					1	2	1		2	3	3	2			
Missouri.....	9	20	104.3	76.8					1		1	5	4	3	4	2				
New Mexico.....	6	27	104.0	86.2	1		1			1		4	3	3	4	4	1	5		
Ohio.....	13	67	104.0	109.9							1	1	1	5	4	6	18	4	17	9
Oklahoma.....	4	11	104.0	78.4	1					1		1	2	1	1	2	2			
Pennsylvania.....	29	210	111.6	96.3	1		1	1		5	9	6	14	18	32	27	33	27	11	7
Tennessee.....	6	28	93.7	69.8		1	1	1		4	2	7	1	3	2	4	2			
Utah.....	7	26	104.0	76.8	2					1	2	4		2	4	2	8		1	
Virginia.....	4	62	104.0	61.9	1	7	2	2		9	3	6	12	8	6	3	2	1		
West Virginia.....	12	98	110.6	88.1			3		2	4	5	9	7	6	12	7	16	11	3	3
Wyoming.....	4	13	104.0	81.6	2							1		4	6		2			
Total.....	187	1,122	104.1	82.4	1	26	4	20	13	8	30	64	61	106	126	204	138	143	70	54
Trappers (boys):																				
Alabama.....	4	36	93.3	72.6				1	1		1	2	1	5	5	18	2			
Colorado.....	9	27	104.0	71.2						1	5	2	6	3	3	4	2	1		
Illinois.....	13	98	104.0	65.3	2		2			1	5	26	28	12	14	7			1	
Indiana.....	9	40	80.0	51.8			1			2	16	14	2	3	2					
Iowa.....	6	17	104.0	58.3			3	1				2	7	4						
Kansas.....	4	9	104.0	70.8					1			1	3		2	2				
Kentucky.....	10	28	104.0	66.2	1			1		1		2	14	4	2	1	1	1		
New Mexico.....	5	14	104.0	85.5						1		3			1	7	2			
Ohio.....	12	88	104.0	92.4						1	3		5	9	11	9	47	1	2	
Oklahoma.....	5	39	104.0	79.2			1		1		2	3	1	6	11	10	4			
Pennsylvania.....	8	32	110.9	86.2	1					1		2	2	2	16	7			3	
Tennessee.....	5	42	87.4	57.7						9	21	7	4				1			
Virginia.....	3	8	104.0	56.5	1			2		1				1	2	1				
West Virginia.....	8	53	114.3	68.3		1	1	3	2	6	2	1	5	5	6	5	5	4	3	2
Other States.....	2	5	104.0	43.2	1						1									
Total.....	103	536	101.6	71.5	2	5	1	13	5	8	12	44	78	90	58	86	56	62	6	4
Total inside.....	201	36,189	103.8	67.6	88	523	271	603	745	437	1,713	3,773	5,634	6,019	5,371	4,311	2,770	2,030	706	520

TABLE F.—AVERAGE FULL-TIME HOURS, AVERAGE HOURS ACTUALLY WORKED, AND NUMBER OF EMPLOYEES WORKING EACH CLASSIFIED NUMBER OF ACTUAL HOURS IN A HALF-MONTH PAY-ROLL PERIOD IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Continued.

Occupation and State.	Number of mines.	Number of employees.	Average full-time hours in a half-month pay-roll period.	Average hours actually worked in a half-month pay-roll period.	Number of employees whose actual hours of work in a half-month pay-roll period were—																				
					Under 5.	5 and under 10.	10 and under 15.	15 and under 20.	20 and under 25.	25 and under 30.	30 and under 40.	40 and under 50.	50 and under 60.	60 and under 70.	70 and under 80.	80 and under 90.	90 and under 100.	100 and under 110.	110 and under 120.	120 and under 130.	130 and under 150.	150 and under 170.	170 and under 190.	190 and over.	
Outside work.																									
Blacksmiths:																									
Alabama.....	4	10	101.2	74.6				1	1				1		1	1	3	1	1						
Colorado.....	17	26	115.0	111.3							1				1	3	5	6	7	3	3	1			
Illinois.....	16	43	107.9	93.8		2		1	1	1	1		1	1	3	3	5	5	6	10	2	1			
Indiana.....	11	23	87.0	98.4										1	2	6	4	3	4	1		2			
Iowa.....	9	16	104.0	96.6		1							1		2	1	1	2	5	3	3				
Kansas.....	12	14	104.9	115.6												1	4	1	2	2	3	1			
Kentucky.....	19	36	108.8	97.4		1	1	1			1		1	1	5	8	7	4	2	2					
Maryland.....	5	7	104.0	80.3		1						1					2	2	1						
Missouri.....	9	11	105.5	89.3									2		2	2	2	4		1					
New Mexico.....	6	12	117.0	118.8												2	2	1	3	2	3	1			
Ohio.....	13	28	104.0	112.9												2	3	9	5	3	6				
Oklahoma.....	5	8	104.0	101.8								1					1	3	1	2					
Pennsylvania.....	29	86	121.5	102.8		2					3		3	2	4	14	14	11	11	7	9	6			1
Tennessee.....	6	10	84.8	77.3								1	1	2	1	3	1	1							
Utah.....	7	16	104.0	100.1									1	1	1		3	6	5						
Virginia.....	2	3	104.0	84.3									1	1			1	1							
West Virginia.....	13	22	111.1	106.6								1	1			3	2	7	2	3	1	2			
Wyoming.....	4	5	104.0	94.4											1	2	1			1					
Total.....	187	376	109.0	100.6		7	1	3	2	1	3	9	9	8	17	45	58	70	57	40	29	14			3
Carpenters:																									
Alabama.....	3	12	80.0	54.8		2			1		1	1	1	2		3		1							
Colorado.....	12	20	117.3	100.3		2								1		1	3	3	5	3	2				
Illinois.....	13	31	104.0	102.5					1						3	1	5	9	6	4	2				
Indiana.....	2	4	80.0	76.0								1					3								
Iowa.....	4	5	104.0	64.4					1		1		1		1						1				
Kansas.....	2	2	110.5	84.0										1				1							
Kentucky.....	7	18	101.3	85.1					1					1	4	4	4	2	2						
Maryland.....	5	8	104.0	97.8								1				2	3	1						1	
Missouri.....	4	4	104.0	61.8	1								1		1			1							

New Mexico.....	4	15	119.2	95.6	1						2	1	2	6	1	1	1		
Ohio.....	8	15	104.0	103.7					1		1		1	1	3	5	1	2	
Oklahoma.....	3	6	104.0	95.7					1				1		3		1		
Pennsylvania.....	25	83	121.4	106.4			2		1		1	2	12	12	19	11	8	8	7
Tennessee.....	2	6	100.0	92.0							1			1	1	2	1		
Utah.....	7	10	104.0	98.1									5	2	1		2		
West Virginia.....	5	14	110.5	97.0						3	2		1	2	1	2	1	1	1
Wyoming.....	3	4	104.0	103.0										1	3				
Other States.....	1	3	104.0	68.3							1	2							
Total.....	110	260	110.1	96.5	1	5	2	4	5	3	7	12	13	36	36	56	33	20	17
Engineers:																			
Alabama.....	4	12	106.7	97.6	1								2	3	2	1	1	2	
Colorado.....	17	51	118.5	107.8			1			1	4	2	2	1	2	6	8	12	10
Illinois.....	16	56	116.8	119.1						1			3		1	7	5	32	5
Indiana.....	11	23	113.0	110.6										1	16	1	1	3	1
Iowa.....	11	20	130.6	123.8						1		2		1	1	2	3	6	2
Kansas.....	12	15	134.9	135.8							1				1	1	3	7	3
Kentucky.....	5	6	134.2	129.3								1					1	1	1
Maryland.....	5	7	123.4	132.0									1	1	2	1	2	1	1
Missouri.....	11	21	127.5	122.1							1				2	2	7	5	1
New Mexico.....	3	29	116.1	94.6			1				2	3	4	4	2	4	1	8	1
Ohio.....	4	7	158.3	157.1											2	4			2
Oklahoma.....	8	17	149.9	148.8						2				1	1	1		1	3
Pennsylvania.....	20	49	126.0	127.1							1		2	4	1	5	7	8	4
Tennessee.....	6	18	94.1	92.5	1					1	1	1	3	4	2	5	3	10	4
Utah.....	7	29	112.5	101.9						2	1	2			2	4	4	13	1
West Virginia.....	5	10	139.1	129.7			1			1				1	1	1	2	2	1
Wyoming.....	4	8	110.0	92.8							1	1	1	1	1	1	1	1	1
Other States.....	1	2	104.0	78.5									1	1					
Total.....	150	380	121.3	116.0	2	1	2	1	8	10	12	18	20	18	54	34	88	64	21
Firemen:																			
Alabama.....	4	32	108.8	95.3			1		2	2		5	4	1	4		9	4	
Colorado.....	13	31	132.1	120.2		1					1	3		2	2	2	10	3	5
Illinois.....	15	64	115.5	106.3	1		2				1	2	1	2	1	14	13	25	2

TABLE F.—AVERAGE FULL-TIME HOURS, AVERAGE HOURS ACTUALLY WORKED, AND NUMBER OF EMPLOYEES WORKING EACH CLASSIFIED NUMBER OF ACTUAL HOURS IN A HALF-MONTH PAY-ROLL PERIOD IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Concluded.

Occupation.	Number of mines.	Number of employees.	Average full-time hours in a half-month pay-roll period.	Average hours actually worked in a half-month pay-roll period.	Number of employees whose actual hours of work in a half-month pay-roll period were—																			
					Under 5.	5 and under 10.	10 and under 15.	15 and under 20.	20 and under 25.	25 and under 30.	30 and under 40.	40 and under 50.	50 and under 60.	60 and under 70.	70 and under 80.	80 and under 90.	90 and under 100.	100 and under 110.	110 and under 120.	120 and under 130.	130 and under 150.	150 and under 170.	170 and under 190.	190 and over
Outside work—Concluded.																								
Laborers:																								
Alabama.....	5	140	94.9	75.2	1	5	.....	5	6	2	5	5	6	6	20	40	18	11	1	4	1	4	.....	.....
Colorado.....	18	257	115.3	86.4	.....	5	.....	9	3	3	6	7	8	18	30	24	43	45	26	20	9	1	.....	.....
Illinois.....	16	251	104.0	82.6	.....	3	1	5	2	1	8	9	18	19	41	50	25	21	26	13	7	2	.....	.....
Indiana.....	10	122	80.0	74.3	.....	3	.....	1	2	.....	4	12	6	12	23	35	9	4	5	4	1	1	.....	.....
Iowa.....	11	72	104.0	81.4	.....	2	.....	1	1	.....	3	3	5	5	8	15	12	5	5	6	1	.....	.....	
Kansas.....	12	48	104.0	89.4	.....	.....	.....	.....	.....	.....	2	2	3	6	3	7	10	12	1	2	2	.....	.....	
Kentucky.....	19	245	103.0	80.8	.....	5	.....	3	8	2	7	10	15	19	29	44	41	30	21	9	1	1	.....	.....
Maryland.....	5	57	104.0	87.3	.....	.....	.....	.....	.....	.....	1	1	1	6	11	14	8	7	5	2	1	.....	.....	
Missouri.....	10	62	103.7	66.0	.....	2	.....	1	1	.....	2	8	15	5	8	9	6	5	.....	.....	.....	.....	.....	
New Mexico.....	6	114	117.2	89.3	1	3	.....	1	.....	1	.....	3	5	9	13	10	18	18	20	6	6	.....	.....	
Ohio.....	13	146	104.0	93.5	.....	.....	1	2	2	.....	2	1	1	5	15	16	25	43	16	12	3	2	.....	.....
Oklahoma.....	8	47	104.0	97.1	.....	1	.....	.....	.....	1	1	2	.....	2	4	4	8	7	6	7	2	.....	.....	
Pennsylvania.....	31	804	113.1	89.6	3	7	6	12	7	4	24	29	27	56	107	128	119	84	71	32	49	20	11	8
Tennessee.....	6	117	87.4	62.1	.....	1	.....	5	2	1	5	14	27	17	22	10	8	2	1	2	.....	.....	.....	
Utah.....	7	129	104.0	75.5	.....	1	.....	2	1	1	14	6	7	12	15	36	7	17	5	4	1	.....	.....	
Virginia.....	4	42	104.0	74.8	.....	1	.....	1	1	.....	3	2	1	4	6	7	10	6	.....	.....	.....	.....	.....	
West Virginia.....	13	162	112.4	83.5	.....	3	3	2	2	4	7	5	14	13	21	21	15	19	14	5	7	4	2	1
Wyoming.....	4	45	104.0	81.8	.....	2	.....	1	3	.....	.....	1	1	3	9	4	6	4	7	2	2	.....	.....	
Total.....	198	2,860	106.3	83.7	5	44	11	51	41	20	92	120	160	217	385	474	388	340	230	130	93	37	13	9
Total outside.....	201	4,319	110.0	91.7	6	61	14	61	53	23	109	147	195	262	444	595	524	572	392	417	265	107	40	32
Total inside and outside.....	201	40,508	104.4	70.1	94	584	285	664	798	460	1,822	3,920	5,829	6,281	5,815	4,906	3,294	2,602	1,098	937	752	237	83	47

TABLE G.—AVERAGE EARNINGS PER HOUR, AND NUMBER AND PER CENT OF EMPLOYEES EARNING EACH CLASSIFIED AMOUNT PER HOUR IN ANTHRACITE COAL MINES, PENNSYLVANIA, 1919 AND 1920, BY OCCUPATIONS.

NUMBER.

Occupation.	Year.	Number of mines.	Number of employees.	Average earnings per hour.	Employees whose average earnings per hour in a half-month pay-roll period were—															
					Under 30 cents.	30 and under 35 cents.	35 and under 40 cents.	40 and under 45 cents.	45 and under 50 cents.	50 and under 60 cents.	60 and under 70 cents.	70 and under 80 cents.	80 and under 90 cents.	90 cents and under \$1.00.	\$1.00 and under \$1.25.	\$1.25 and under \$1.50.	\$1.50 and under \$1.75.	\$1.75 and under \$2.00.	\$2.00 and over.	
					<i>Inside work.</i>															
Blacksmiths.....	1919	13	30	\$0.590						21	9									
	1920	8	20	.578						14	6									
Bratticemen.....	1919	17	116	.561					2	110	4									
	1920	14	111	.569						106	5									
Cagers.....	1919	22	234	.518				6	31	197										
	1920	16	197	.511				4	35	158										
Car runners.....	1919	17	342	.506					104	232	6									
	1920	15	233	.504					62	171										
Door tenders (boys).....	1919	20	247	.315	64	172	1		7	3										
	1920	14	156	.306	61	94			1											
Drivers.....	1919	22	479	.500		11		11	185	271	1									
	1920	14	272	.498		2		10	99	161										
Engineers.....	1919	17	121	.537		1	7	1	2	104	6									
	1920	14	100	.562						95	5									
Laborers.....	1919	22	1,200	.514	2	31	13	22	102	999	27	4								
	1920	16	736	.521				4	78	654										
Laborers, company miners' ¹	1919	19	632	.527					47	584		1								
	1920	9	308	.526					16	292										
Laborers, consideration miners' ²	1919	10	202	.541						166	36									
Laborers, contract miners'.....	1919	21	1,855	.635	17	16	22	44	71	623	567	277	113	61	36	7	1			
	1920	14	1,191	.679	4	9	15	23	46	265	409	203	111	57	43	3	2	1		
Machinists.....	1919	11	67	.568					18	24	25									
	1920	9	19	.584						12	7									
Masons.....	1919	12	41	.576						32	9									
	1920	6	29	.579						23	6									
Miners, company.....	1919	19	656	.582					6	587	59	4								
	1920	11	367	.576						330	37									
Miners, consideration.....	1919	10	498	.634					1	95	401	1								
	1920	10	480	.659					4	72	374	11	3	6	7	1	2			
Miners, contract.....	1919	22	4,887	.841	36	31	65	95	120	431	838	824	729	614	711	257	85	30	21	
	1920	16	3,188	.925	11	10	18	32	48	220	346	465	519	437	667	251	92	41	31	

¹ Figures for 1919 include laborers, consideration miners'.

² Figures for 1919 included with laborers, company miners'.

Jig runners.....	1919	18	81	.416	1	26	26	21	7										
	1920	12	54	.426		8	27	18	1										
Laborers.....	1919	22	1,211	.433	9	92	15	691	376	27	1								
	1920	16	718	.438	2	32	3	402	273	6									
Loaders.....	1919	21	199	.448				81	116	2									
	1920	16	142	.449				56	85	1									
Machinists.....	1919	20	112	.513		1		9	36	60	5	1							
	1920	14	117	.509				15	48	48	6								
Oilers.....	1919	21	77	.436	1	6		37	33										
	1920	15	42	.440		2		22	18										
Platemens.....	1919	21	180	.431				99	58	1									
	1920	14	112	.429		17		70	25										
Repairmen.....	1919	10	113	.485				32	43	37	1								
	1920	5	21	.480				3	13	5									
Slaters (boys).....	1919	21	580	.300	345	198	1	29	7										
	1920	15	345	.303	161	168		10	6										
Timber cutters.....	1919	19	115	.452				53	57	5									
	1920	14	92	.448				42	49	1									
Trackmen.....	1919	14	28	.478				8	14	6									
	1920	8	26	.455				13	11	2									
Total outside.....	1919	22	3,930	.442	356	348	39	1,214	1,115	762	95	1							
	1920	16	2,513	.453	163	234	15	741	809	484	67								
Total inside and outside....	1919	22	16,175	.600	475	619	202	1,414	1,891	5,700	2,073	1,135	843	675	747	264	88	30	21
	1920	16	10,821	.625	239	355	98	821	1,274	3,759	1,321	679	634	500	717	255	96	42	31

PER CENT.

<i>Inside work.</i>																			
Blacksmiths.....	1919	13	30	\$0.590					70	30									
	1920	8	20	.578					70	30									
Bratticemen.....	1919	17	116	.561				2	94	3									
	1920	14	111	.569					95	5									
Cagers.....	1919	22	234	.518			2	13	84										
	1920	16	197	.511			2	18	80										
Car runners.....	1919	17	342	.506				30	68	2									
	1920	15	233	.504				27	73										
Doortenders (boys).....	1919	20	247	.315	26	70	(*)	3	1										
	1920	14	155	.306	39	60		1											
Drivers.....	1919	22	479	.509			2	39	57	(*)									
	1920	14	272	.498		1		4	36										
Engineers.....	1919	17	121	.537		6		1	2										
	1920	14	100	.562					95	5									
Laborers.....	1919	22	1,200	.514	(*)	3	1	2	9	83	2	(*)							
	1920	16	735	.521				1	11	89									

* Less than one-half of 1 per cent.

TABLE G.—AVERAGE EARNINGS PER HOUR, AND NUMBER AND PER CENT OF EMPLOYEES EARNING EACH CLASSIFIED AMOUNT PER HOUR IN ANTHRACITE COAL MINES, PENNSYLVANIA, 1919 AND 1920, BY OCCUPATIONS—Concluded.

PER CENT—Concluded.

Occupation.	Year.	Number of mines.	Number of employees.	Average earnings per	Employees whose average earnings per hour in a half-month pay-roll period were—														
					Under 30 cents.	30 and under 35 cents.	35 and under 40 cents.	40 and under 45 cents.	45 and under 50 cents.	50 and under 60 cents.	60 and under 70 cents.	70 and under 80 cents.	80 and under 90 cents.	98 cents and under \$1.00.	\$1.00 and under \$1.25.	\$1.25 and under \$1.50.	\$1.50 and under \$1.75.	\$1.75 and under \$2.00.	\$2.00 and over.
<i>Inside work—Concluded.</i>																			
Laborers, company miners' 1	1919	19	632	\$0.527	-----	-----	-----	-----	7	92	-----	(3)	-----	-----	-----	-----	-----	-----	-----
	1920	9	308	.526	-----	-----	-----	-----	5	95	-----	-----	-----	-----	-----	-----	-----	-----	-----
Laborers, consideration miners' 2	1920	10	202	.541	-----	-----	-----	-----	-----	82	18	-----	-----	-----	-----	-----	-----	-----	-----
Laborers, contract miners'	1919	21	1,855	.635	1	1	1	2	4	34	31	15	6	3	2	(3)	(3)	-----	-----
	1920	14	1,191	.679	(3)	1	1	2	4	22	34	17	9	5	4	(3)	(3)	(3)	-----
Machinists	1919	11	67	.568	-----	-----	-----	-----	27	36	37	-----	-----	-----	-----	-----	-----	-----	-----
	1920	9	19	.584	-----	-----	-----	-----	-----	63	37	-----	-----	-----	-----	-----	-----	-----	-----
Masons	1919	12	41	.576	-----	-----	-----	-----	-----	78	22	-----	-----	-----	-----	-----	-----	-----	-----
	1920	6	29	.579	-----	-----	-----	-----	-----	79	21	-----	-----	-----	-----	-----	-----	-----	-----
Miners, company	1919	19	656	.582	-----	-----	-----	-----	1	89	9	1	-----	-----	-----	-----	-----	-----	-----
	1920	11	367	.576	-----	-----	-----	-----	-----	90	10	-----	-----	-----	-----	-----	-----	-----	-----
Miners, consideration	1919	10	498	.634	-----	-----	-----	-----	(3)	19	81	(3)	-----	-----	-----	-----	-----	-----	-----
	1920	10	480	.659	-----	-----	-----	-----	-----	15	78	2	1	1	1	(3)	(3)	-----	-----
Miners, contract	1919	22	4,887	.841	1	1	1	2	2	9	17	17	15	13	15	5	2	1	(3)
	1920	16	3,188	.925	(3)	(3)	1	1	2	7	11	15	16	14	21	8	3	1	1
Motormen	1919	19	247	.558	-----	-----	-----	-----	1	97	1	1	-----	-----	-----	-----	-----	-----	-----
	1920	15	202	.554	-----	-----	-----	-----	-----	100	(3)	-----	-----	-----	-----	-----	-----	-----	-----
Motor brakemen	1919	18	190	.502	-----	-----	-----	1	34	65	-----	-----	-----	-----	-----	-----	-----	-----	-----
	1920	14	178	.497	-----	-----	-----	-----	41	59	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pump men	1919	21	104	.404	-----	9	53	17	4	17	-----	-----	-----	-----	-----	-----	-----	-----	-----
	1920	15	99	.417	-----	6	51	7	3	33	-----	-----	-----	-----	-----	-----	-----	-----	-----
Timbermen	1919	15	136	.591	-----	-----	-----	-----	4	71	10	15	1	-----	-----	-----	-----	-----	-----
	1920	13	97	.578	-----	-----	-----	-----	-----	87	13	-----	-----	-----	-----	-----	-----	-----	-----
Trackmen	1919	22	163	.572	-----	-----	-----	1	2	90	7	-----	-----	-----	-----	-----	-----	-----	-----
	1920	16	123	.578	-----	-----	-----	-----	-----	92	7	-----	1	-----	-----	-----	-----	-----	-----
Total inside work	1919	22	12,245	.661	1	2	1	2	6	40	16	9	7	6	6	2	1	(3)	(3)
	1920	16	8,308	.690	1	1	1	1	6	39	15	8	8	6	9	3	1	1	(3)

<i>Outside work.</i>																			
Ashmen.....	1919	19	72	.441			11	19	69										
	1920	15	53	.449			6	9	85										
Blacksmiths.....	1919	22	60	.567				2		78	20								
	1920	16	39	.574						85	15								
Cagers.....	1919	22	119	.458		1	3	20	66	9	1								
	1920	15	84	.449		4	1	17	79										
Carpenters.....	1919	22	250	.561				3	6	81	10								
	1920	16	163	.548				5	9	77	9								
Car runners.....	1919	15	83	.453				35	64		1								
	1920	10	46	.450				26	74										
Dumpers.....	1919	19	88	.449				47	51	2									
	1920	16	57	.448		4		30	65	2									
Engineers.....	1919	22	248	.527		1	5	4	15	55	20								
	1920	16	185	.532		1	4	5	14	54	22								
Firemen.....	1919	22	314	.502				7	24	69	(³)								
	1920	16	217	.501				7	19	74									
Jig runners.....	1919	18	81	.416	1	32		32	26	9									
	1920	12	54	.426		15		50	33	2									
Laborers.....	1919	22	1,211	.433	1	8	1	57	31	2	(³)								
	1920	16	718	.438	(³)	4	(³)	56	38	1									
Loaders.....	1919	21	199	.448				41	58	1									
	1920	16	142	.449				39	60	1									
Machinists.....	1919	20	112	.513		1		8	32	54	4	1							
	1920	14	117	.509				13	41	41	5								
Oilers.....	1919	21	77	.436	1	8		48	43										
	1920	15	42	.440		5		52	43										
Platemn.....	1919	21	180	.431		12		55	32	1									
	1920	14	112	.429		15		63	22										
Repairmen.....	1919	10	113	.485				28	38	33	1								
	1920	5	21	.480				14	62	24									
Slaters (boys).....	1919	21	580	.300	59	34	(³)	5	1										
	1920	15	345	.303	47	49		3	2										
Timber cutters.....	1919	19	115	.452				46	50	4									
	1920	14	92	.448				46	53	1									
Trackmen.....	1919	14	28	.478				29	50	21									
	1920	8	26	.455				50	42	8									
Total outside.....	1919	22	3,930	.442	9	9	1	31	28	19	2	(³)							
	1920	16	2,513	.453	6	9	1	29	32	19	3								
Total inside and outside.....	1919	22	16,175	.600	3	4	1	9	12	35	13	7	5	4	5	7	2	1	(³)
	1920	16	10,821	.625	2	3	1	8	12	35	12	6	6	5	7	2	1	(³)	(³)

¹ Figures for 1919 include laborers, consideration miners'.² Figures for 1919 included with laborers, company miners'.³ Less than one-half of 1 per cent.

TABLE H.—AVERAGE EARNINGS PER HOUR, AND NUMBER AND PER CENT OF EMPLOYEES EARNING EACH CLASSIFIED AMOUNT PER HOUR IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES.

NUMBER.																		
Occupation and State.	Number of mines.	Number of employees.	Average earnings per hour.	Employees whose average earnings per hour in a half-month pay-roll period were—														
				Under 30 cents.	30 and under 35 cents.	35 and under 40 cents.	40 and under 45 cents.	45 and under 50 cents.	50 and under 60 cents.	60 and under 70 cents.	70 and under 80 cents.	80 and under 90 cents.	90 cents and under \$1.00.	\$1.00 and under \$1.25.	\$1.25 and under \$1.50.	\$1.50 and under \$1.75.	\$1.75 and under \$2.00.	\$2.00 and over.
<i>Inside work.</i>																		
Brakemen:																		
Alabama.....	4	18	\$0.427				18											
Colorado.....	15	71	.641						16	55								
Illinois.....	12	100	.617						19	81								
Indiana.....	7	51	.626							51								
Iowa.....	5	10	.586				2			8								
Kansas.....	6	22	.625							22								
Kentucky.....	18	124	.496				21	19	84									
Maryland.....	5	29	.594						3	26								
Missouri.....	3	14	.625							14								
New Mexico.....	6	27	.652						1	26								
Ohio.....	7	36	.607						17	19								
Oklahoma.....	2	6	.625							6								
Pennsylvania.....	28	289	.634					1	15	258	11	4						
Tennessee.....	5	33	.427			2	31											
Utah.....	7	19	.687							18	1							
Virginia.....	4	65	.432			3	57	1	2	1	1							
West Virginia.....	12	91	.500			2	20	20	42	7								
Total.....	146	1,005	.581			7	149	41	199	592	13	4						
Bratticemen and timbermen:																		
Alabama.....	5	24	.498				2	17	5									
Colorado.....	14	57	.672						1	55	1							
Illinois.....	14	156	.626						2	153		1						
Indiana.....	9	44	.625							44								
Iowa.....	8	64	.627							64								
Kansas.....	11	34	.627							33	1							
Kentucky.....	15	56	.513				7	15	33	1								
Maryland.....	5	46	.599						39	7								
Missouri.....	4	19	.625							19								
New Mexico.....	5	23	.690							19		4						

Ohio.....	11	70	.625							69	1								
Oklahoma.....	6	51	.626							51									
Pennsylvania.....	29	172	.625						31	137	4								
Tennessee.....	4	18	.448			1	6	9	2										
Utah.....	5	10	.693							8	2								
Virginia.....	4	19	.476			2	1		16										
West Virginia.....	10	54	.516		3	1	8	11	23	8									
Wyoming.....	4	15	.677						23	15									
Total.....	163	932	.610		3	4	24	52	152	683	9	5							
Cagers:																			
Colorado.....	6	15	.686							13	2								
Illinois.....	16	39	.622						5	34									
Indiana.....	11	43	.629							42	1								
Iowa.....	11	19	.627							19									
Kansas.....	12	31	.623							31									
Maryland.....	2	2	.620							2									
Missouri.....	8	16	.625							16									
Ohio.....	5	11	.625							11									
Pennsylvania.....	13	32	.611					1	6	24	1								
Wyoming.....	2	5	.677							5									
Other States.....	4	7	.575					3		4									
Total.....	90	220	.626					4	11	201	4								
Drivers:																			
Alabama.....	5	180	.440				142	37	1										
Colorado.....	17	212	.662							212									
Illinois.....	16	380	.625						1	378	1								
Indiana.....	9	142	.630							142									
Iowa.....	11	99	.624							99									
Kansas.....	12	119	.627							119									
Kentucky.....	14	135	.493				29	24	82										
Maryland.....	4	32	.595						30	2									
Missouri.....	8	90	.627							90									
New Mexico.....	6	118	.662							118									
Ohio.....	12	208	.649						1	207									
Oklahoma.....	8	103	.625							103									
Pennsylvania.....	18	354	.635						2	347	5								
Tennessee.....	6	52	.419			10	39	3											
Utah.....	7	62	.687							62									
Virginia.....	2	8	.383		2	4			2										
West Virginia.....	6	46	.559					1	45										
Wyoming.....	4	32	.677							32									
Total.....	165	2,372	.609		2	14	210	65	164	1,911	6								

TABLE H.—AVERAGE EARNINGS PER HOUR, AND NUMBER AND PER CENT OF EMPLOYEES EARNING EACH CLASSIFIED AMOUNT PER HOUR IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Continued.

NUMBER—Continued.

Occupation and State.	Number of mines.	Number of employees.	Average earnings per hour.	Employees whose average earnings per hour in a half-month pay-roll period were—														
				Under 30 cents.	30 and under 35 cents.	35 and under 40 cents.	40 and under 45 cents.	45 and under 50 cents.	50 and under 60 cents.	60 and under 70 cents.	70 and under 80 cents.	80 and under 90 cents.	90 cents and under \$1.00.	\$1.00 and under \$1.25.	\$1.25 and under \$1.50.	\$1.50 and under \$1.75.	\$1.75 and under \$2.00.	\$2.00 and over.
<i>Inside work—Continued.</i>																		
Laborers:																		
Alabama.....	5	107	\$0.418		13	5	86		3									
Colorado.....	11	123	.655						1	122								
Illinois.....	16	404	.598						334	70								
Indiana.....	9	150	.628							150								
Iowa.....	10	64	.602						44	20								
Kansas.....	8	30	.625							30								
Kentucky.....	13	182	.450			2	88	70	21	1								
Maryland.....	5	51	.606						42	9								
Missouri.....	9	120	.629						2	118								
New Mexico.....	5	41	.664							41								
Ohio.....	11	97	.596						80	17								
Oklahoma.....	3	26	.622						3	23								
Pennsylvania.....	30	635	.593					14	384	232	5							
Tennessee.....	5	66	.423	1	3	9	40	6	6	1								
Utah.....	7	44	.664						1	40	3							
Virginia.....	3	30	.431				1	17	1	11								
West Virginia.....	10	116	.627			2	16	4	87	7								
Wyoming.....	4	33	.666							33								
Total.....	164	2,319	.586	1	16	19	247	95	1,019	914	8							
Loaders:																		
Alabama.....	2	307	.737		3	7	13	24	52	61	73	26	17	14	11	5		1
Colorado.....	8	389	.774	1	2	3	7	17	54	72	71	57	43	48	11	1	1	1
Illinois.....	9	2,049	.889	4	8	11	20	37	147	226	294	338	357	464	108	25	8	2
Indiana.....	7	1,098	.875	6	6	8	25	22	116	130	215	160	173	202	22	9	4	
Iowa.....	2	67	.567	1	2	5	4	8	22	18	3	1	1	2				
Kentucky.....	17	1,391	.686	53	62	111	116	114	211	169	143	130	82	127	42	16	10	5
Missouri.....	6	283	.753	7	4	18	11	6	27	32	50	42	37	41	5	1	2	
New Mexico.....	5	132	.657	5	4	4	3	11	25	31	21	15	8	5				
Ohio.....	13	1,970	.761	4	16	17	50	46	204	437	485	357	176	150	23	5		

Oklahoma.....	2	135	.714	2	4	2	8	9	23	21	23	16	17	8	2			
Pennsylvania.....	28	4,117	.753	58	31	94	118	165	579	767	763	615	378	409	101	34	5	2
Tennessee.....	4	119	.725	3	6	8	9	3	19	22	9	12	7	14	6	1		
Utah.....	5	235	.943	1		1	3	4	3	22	40	44	39	46	17	6		
Virginia.....	4	230	.627	3	5	11	12	24	54	56	30	15	7	9	2	2		
West Virginia.....	13	749	.778	5	9	17	29	32	104	137	115	93	73	80	35	12	4	4
Wyoming.....	3	74	.809			1	1	3	7	13	15	12	12	9		1		
Total.....	128	13,345	.774	151	162	318	429	525	1,647	2,214	2,350	1,933	1,427	1,628	385	121	40	15
Miners, hand:																		
Alabama.....	4	455	.670	8	13	13	24	26	92	63	116	43	17	30	9	1		
Colorado.....	16	1,268	.773	29	21	28	38	51	141	208	207	177	133	179	40	8	3	5
Illinois.....	8	1,669	.767	23	26	48	61	84	225	242	274	253	180	191	42	11	4	5
Indiana.....	4	525	.644	3	6	23	35	50	141	118	56	24	24	24	1			
Iowa.....	11	962	.705	39	24	33	40	37	138	190	161	118	87	77	13	3		
Kansas.....	12	1,482	.795	36	36	49	59	69	162	208	178	186	171	218	76	25	8	1
Kentucky.....	10	192	.641	3	7	21	18	14	42	36	20	9	7	5	2	1		
Maryland.....	5	491	.945	1		1	1	9	15	47	53	91	89	123	41	9	10	1
Missouri.....	8	629	.636	18	22	30	36	59	126	143	98	47	25	18	6	1		
New Mexico.....	6	528	.726	24	20	19	33	24	65	78	76	71	44	54	13	4	3	
Ohio.....	2	13	.767				1		2	4	4	1		1				
Oklahoma.....	7	354	.829				22	15	43	43	47	22	37	53	33	10	2	1
Pennsylvania.....	28	1,859	.899	11	12	13	31	38	139	224	264	277	266	374	137	52	14	7
Tennessee.....	7	367	.686	7	10	6	27	28	68	48	63	47	29	27	3	2	1	
Utah.....	5	206	.932	2	1	1	2	3	10	18	27	30	31	59	18	4		
West Virginia.....	5	168	.907	2	1	1	5	8	14	20	28	14	24	22	19	4	3	3
Wyoming.....	4	169	1.046						2	8	14	24	23	66	22	10		
Other States.....	1	42	1.107			1			2				8	22	4	3		
Total.....	143	11,379	.785	217	205	296	433	516	1,425	1,698	1,686	1,457	1,196	1,545	482	149	51	23
Miners, machine:																		
Colorado.....	11	66	1.061	1				2	5	6	3	4	10	20	10	4	1	
Illinois.....	10	280	1.078	1	3		1	1	16	16	25	19	31	99	23	27	14	4
Indiana.....	7	136	1.182						6	14	14	13	19	18	21	16	10	5
Iowa.....	2	12	.737							5	2	4	1					
Kentucky.....	14	130	.769	1	2	2	3	3	22	40	20	13	7	11	5		1	
Missouri.....	6	112	.666						1	102		2	3	4	1			
New Mexico.....	5	35	1.023						2	6	7	4	9	3	1	2		
Ohio.....	13	245	.971				2	5	7	16	31	37	29	76	31	5	5	1
Oklahoma.....	2	12	.670						12									
Pennsylvania.....	26	546	.890	2	2	1	3	13	23	183	33	54	50	105	46	19	5	7
Tennessee.....	3	15	.504			1	6		8									
Utah.....	7	22	1.254							3	4	2	3	3	3	4	1	2
Virginia.....	4	27	.722					3	2	11	5	3	1	2				
West Virginia.....	8	62	.808				1	1	13	10	9	3	3	14	6	2		
Other States.....	2	21	1.180			1			1	2	1		1	5	7	1		2
Total.....	120	1,721	.926	5	7	5	16	28	104	419	152	163	161	366	156	79	39	21

TABLE H.—AVERAGE EARNINGS PER HOUR, AND NUMBER AND PER CENT OF EMPLOYEES EARNING EACH CLASSIFIED AMOUNT PER HOUR IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Continued.

NUMBER—Continued.

Occupation and State.	Number of mines.	Number of employees.	Average earnings per hour.	Employees whose average earnings per hour in a half-month pay-roll period were—															
				Under 30 cents.	30 and under 35 cents.	35 and under 40 cents.	40 and under 45 cents.	45 and under 50 cents.	50 and under 60 cents.	60 and under 70 cents.	70 and under 80 cents.	80 and under 90 cents.	90 and under \$1.00.	\$1.00 and under \$1.25.	\$1.25 and under \$1.50.	\$1.50 and under \$1.75.	\$1.75 and under \$2.00.	\$2.00 and over.	
Inside work—Concluded.																			
Motormen:																			
Alabama.....	3	9	\$0.538						8	1									
Colorado.....	12	42	.666							41	1								
Illinois.....	13	86	.689						1	68	17								
Indiana.....	11	60	.687							60									
Iowa.....	5	10	.642							10									
Kansas.....	9	15	.695							15									
Kentucky.....	19	113	.541						113										
Maryland.....	5	30	.631							30									
Missouri.....	3	12	.627							12									
New Mexico.....	4	12	.655							12									
Ohio.....	13	58	.627							58									
Pennsylvania.....	30	272	.654						2	254	14	2							
Tennessee.....	3	21	.495				1	1	19										
Utah.....	6	20	.712								20								
Virginia.....	4	59	.495			3			56										
West Virginia.....	13	73	.520				1	35	31	6									
Other States.....	1	2	.625							2									
Total.....	154	894	.619			3	2	36	230	569	52	2							
Pumpmen:																			
Alabama.....	3	21	.416			12	5	4											
Colorado.....	13	24	.634						4	20									
Illinois.....	8	29	.615							29									
Indiana.....	9	11	.648							10	1								
Kentucky.....	12	41	.528			1	4	7	29										
Maryland.....	5	13	.572						12	1									
Missouri.....	6	8	.625							8									
New Mexico.....	3	4	.660							4									
Ohio.....	6	10	.607						7	3									
Oklahoma.....	5	15	.625							15									
Pennsylvania.....	28	122	.609			2	2		52	57	9								

Tennessee.....	5	7	.408	1	4	2	7	1										
Utah.....	4	8	.670															
Virginia.....	2	15	.398	2	11	1	1	1										
West Virginia.....	3	8	.488		2	1	5	5										
Wyoming.....	3	5	.665					2										
Other States.....	2	3	.606				1											
Total.....	117	344	.586	3	15	28	14	111	162	11								
Trackmen:																		
Alabama.....	5	18	.471		7	6	5	57										
Colorado.....	17	57	.668					190										
Illinois.....	15	190	.625					72										
Indiana.....	9	72	.625					30										
Iowa.....	11	30	.626					29										
Kansas.....	12	31	.633															
Kentucky.....	19	148	.518	2	15	38	93	13										
Maryland.....	5	14	.623					1										
Missouri.....	9	20	.629					20										
New Mexico.....	6	27	.662					27										
Ohio.....	13	67	.625					67										
Oklahoma.....	4	11	.625					11										
Pennsylvania.....	29	210	.630															
Tennessee.....	6	28	.477		3	24	13	195		2								
Utah.....	7	26	.692				1	19		7								
Virginia.....	4	62	.470					31										
West Virginia.....	12	98	.530	1	22	7	31	50										
Wyoming.....	4	13	.677		10	29	50	8										
Total.....	187	1,122	.598	4	57	104	194	752	11									
Trappers (boys):																		
Alabama.....	4	36	.239	34	2	3	1	1										
Colorado.....	9	27	.412		13	1	1	10										
Illinois.....	13	98	.363		35	4	1											
Indiana.....	9	40	.339		16	1												
Iowa.....	6	17	.334		8													
Kansas.....	4	9	.337		2													
Kentucky.....	10	28	.305	23	1	1	1											
New Mexico.....	5	14	.338	2	9			2										
Ohio.....	12	88	.344		75	5	8											
Oklahoma.....	5	39	.335		33	6												
Pennsylvania.....	8	32	.332		30	2												
Tennessee.....	5	42	.270	33	3	1												
Virginia.....	3	8	.313	2	4		2											
West Virginia.....	8	53	.380	11	11	8	15	4	4									
Other States.....	2	5	.349		2	3												
Total.....	103	536	.339	110	303	54	37	11	17	4								
Total inside.....	201	36,189	.723	484	701	739	1,632	1,491	5,273	10,119	4,302	3,564	2,784	3,539	1,023	349	130	59

Oklahoma.....	3	6	.603						6								
Pennsylvania.....	25	83	.567					1	57	24	1						
Tennessee.....	2	6	.455		1			5									
Utah.....	7	10	.683							8	2						
West Virginia.....	5	14	.530			1		4	7								
Wyoming.....	3	4	.688							4							
Other States.....	1	3	.482			1			2								
Total.....	110	260	.585		2	4	32	103	105	13	1						
Engineers:																	
Alabama.....	4	12	.480			1	9	2									
Colorado.....	17	51	.612				2	20	28		1						
Illinois.....	16	56	.659					3	45		8						
Indiana.....	11	23	.702				1	1	8		12	1					
Iowa.....	11	20	.592					11	7		1		1				
Kansas.....	12	15	.604					5	10								
Kentucky.....	5	6	.478			2	1	3									
Maryland.....	5	7	.613					3	4								
Missouri.....	11	21	.565			1	1	12	7								
New Mexico.....	3	29	.616					4	20			1					
Ohio.....	4	7	.494		3			3	1								
Oklahoma.....	8	17	.570					12	5								
Pennsylvania.....	20	49	.592				1	26	18		4						
Tennessee.....	6	18	.439		4	4	6	4									
Utah.....	7	29	.661					3	23		2	1					
West Virginia.....	5	10	.512		1	1		6	1		1						
Wyoming.....	4	8	.671						8								
Other States.....	1	2	.500					2									
Total.....	150	380	.601		8	9	25	120	185	29	3	1					
Firemen:																	
Alabama.....	4	32	.402		12	20											
Colorado.....	13	31	.560			5		16	10								
Illinois.....	15	64	.594					63	1								
Indiana.....	11	30	.468		8	4	12	4	2								
Iowa.....	7	8	.552					6	2								
Kansas.....	9	25	.545					25									
Kentucky.....	8	19	.387		4	9	5	1									
Maryland.....	4	25	.580														
Missouri.....	8	14	.541					24	1								
Ohio.....	6	14	.593					10	1								
Oklahoma.....	6	24	.544					10	4								
Pennsylvania.....	16	110	.572				1	24									
Tennessee.....	4	11	.376					96	12		1						
Utah.....	6	18	.618		11												
West Virginia.....	3	11	.451			1	7	1	16								
Wyoming.....	3	7	.515					3									
Other States.....	2			2	1				4								
Total.....	122	443	.537	2	5	41	41	18	282	53	1						

TABLE H.—AVERAGE EARNINGS PER HOUR, AND NUMBER AND PER CENT OF EMPLOYEES EARNING EACH CLASSIFIED AMOUNT PER HOUR IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Continued.

NUMBER—Concluded.

Occupation and State.	Number of mines.	Number of employees.	Average earnings per hour.	Employees whose average earnings per hour in a half-month pay-roll period were—														
				Under 30 cents.	30 and under 35 cents.	35 and under 40 cents.	40 and under 45 cents.	45 and under 50 cents.	50 and under 60 cents.	60 and under 70 cents.	70 and under 80 cents.	80 and under 90 cents.	90 and under \$1.00.	\$1.00 and under \$1.25.	\$1.25 and under \$1.50.	\$1.50 and under \$1.75.	\$1.75 and under \$2.00.	\$2.00 and over.
Outside work—Concluded.																		
Laborers:																		
Alabama.....	5	140	\$0.375	5	37	64	29	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Colorado.....	18	257	.504	.....	.....	1	.....	151	102	3	.....	.....	.....	.....	.....	.....	.....	.....
Illinois.....	16	251	.551	.....	1	.....	1	2	245	2	.....	.....	.....	.....	.....	.....	.....	.....
Indiana.....	10	122	.548	.....	.....	.....	.....	1	113	8	.....	.....	.....	.....	.....	.....	.....	.....
Iowa.....	11	72	.531	.....	.....	.....	.....	.....	71	1	.....	.....	.....	.....	.....	.....	.....	.....
Kansas.....	12	48	.549	.....	.....	.....	.....	.....	46	2	.....	.....	.....	.....	.....	.....	.....	.....
Kentucky.....	19	245	.436	1	32	4	127	56	24	1	.....	.....	.....	.....	.....	.....	.....	.....
Maryland.....	5	57	.527	.....	2	1	2	3	46	3	.....	.....	.....	.....	.....	.....	.....	.....
Missouri.....	10	62	.547	.....	.....	.....	.....	.....	57	3	.....	.....	.....	.....	.....	.....	.....	.....
New Mexico.....	6	114	.465	.....	5	9	24	44	32	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ohio.....	13	146	.561	.....	.....	.....	.....	2	140	4	.....	.....	.....	.....	.....	.....	.....	.....
Oklahoma.....	8	47	.546	.....	.....	.....	.....	.....	47	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pennsylvania.....	31	804	.515	.....	.....	2	14	205	560	23	.....	.....	.....	.....	.....	.....	.....	.....
Tennessee.....	6	117	.363	.....	66	4	41	5	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Utah.....	7	129	.588	.....	.....	.....	.....	.....	94	35	.....	.....	.....	.....	.....	.....	.....	.....
Virginia.....	4	42	.397	2	1	16	19	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....
West Virginia.....	13	162	.436	2	13	45	37	3	60	2	.....	.....	.....	.....	.....	.....	.....	.....
Wyoming.....	4	45	.582	.....	.....	.....	.....	.....	37	8	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	198	2,860	.502	10	157	146	296	477	1,679	95	.....	.....	.....	.....	.....	.....	.....	.....
Total outside.....	201	4,319	.534	12	162	197	356	561	2,275	673	77	5	1	.....	.....	.....	.....	.....
Total inside and outside.....	201	40,508	.699	496	863	936	1,988	2,052	7,548	10,792	4,379	3,569	2,785	3,539	1,023	349	130	59

PER CENT.

<i>Inside work.</i>														
Brakemen:														
Alabama.....	4	18	\$0.427			100								
Colorado.....	15	71	.641					23	77					
Illinois.....	12	100	.617					19	81					
Indiana.....	7	51	.626						100					
Iowa.....	5	10	.586			20			80					
Kansas.....	6	22	.625						100					
Kentucky.....	18	124	.496			17	15	68						
Maryland.....	5	29	.594					10	90					
Missouri.....	3	14	.625						100					
New Mexico.....	6	27	.652					4	96					
Ohio.....	7	36	.607					47	53					
Oklahoma.....	2	6	.625						100					
Pennsylvania.....	28	289	.634			(1)	5	89	4	1				
Tennessee.....	5	33	.427		6	94								
Utah.....	7	19	.687						95	5				
Virginia.....	4	65	.432		5	88	2	3	2	2				
West Virginia.....	12	91	.500		2	22	22	46	8					
Total.....	146	1,005	.581		1	15	4	20	59	1	(1)			
Bratticemen and timbermen:														
Alabama.....	5	24	.498			8	71	21						
Colorado.....	14	57	.672					2	96	2				
Illinois.....	14	156	.626					1	98		1			
Indiana.....	9	44	.625						100					
Iowa.....	8	64	.627						100					
Kansas.....	11	34	.627						97	3				
Kentucky.....	15	56	.513			13	27	59	2					
Maryland.....	5	46	.599					85	15					
Missouri.....	4	19	.625						100					
New Mexico.....	5	23	.690						83		17			
Ohio.....	11	70	.625						99					
Oklahoma.....	6	51	.626						100	1				
Pennsylvania.....	29	172	.625					18	80	2				
Tennessee.....	4	18	.448		6	33	50	11						
Utah.....	5	10	.693						90	20				
Virginia.....	4	19	.476		11	5		84						
West Virginia.....	10	54	.516		2	15	20	43	15					
Wyoming.....	4	15	.677		6				109					
Total.....	163	932	.610	(1)	(1)	3	6	16	73	1	1			

¹ Less than one-half of 1 per cent.

West Virginia.....	6	46	.559				2	98											
Wyoming.....	4	32	.677						100										
Total.....	165	2,372	.609	(1)	1	9	3	7	81	(1)									
Laborers:																			
Alabama.....	5	107	.418		12	5	80		3										
Colorado.....	11	123	.655						1	99									
Illinois.....	16	404	.598						83	17									
Indiana.....	9	150	.628							100									
Iowa.....	10	64	.602						69	31									
Kansas.....	8	30	.625							100									
Kentucky.....	13	182	.450		1	48	38		12	1									
Maryland.....	5	51	.606						82	18									
Missouri.....	9	120	.629						2	98									
New Mexico.....	5	41	.664							100									
Ohio.....	11	97	.596						82	18									
Oklahoma.....	3	26	.622						12	88									
Pennsylvania.....	30	635	.593					2	60	37	1								
Tennessee.....	5	66	.423	2	5	14	61	9	9	2									
Utah.....	7	44	.664						2	91	7								
Virginia.....	3	30	.431			3	57	3	37										
West Virginia.....	10	116	.627			2	14	3	75	6									
Wyoming.....	4	33	.666							100									
Total.....	164	2,319	.586	(1)	1	1	11	4	44	39	(1)								
Loaders:																			
Alabama.....	2	307	.737		1	2	4	8	17	20	24	8	6	5	4	2		(1)	
Colorado.....	8	389	.774	(1)	1	1	2	4	14	19	18	15	11	12	3		(1)	(1)	
Illinois.....	9	2,049	.889	(1)	1	1	1	2	7	11	14	16	17	23	5	1		(1)	
Indiana.....	7	1,098	.875	1	1	1	2	2	11	12	20	15	16	18	2	1		(1)	
Iowa.....	2	67	.567	1	3	7	6	12	33	27	4	1	1	3					
Kentucky.....	17	1,391	.686	4	4	8	8	8	15	12	10	9	6	9	3	1		(1)	
Missouri.....	6	283	.753	2	1	6	4	2	10	11	18	15	13	14	2	(1)		1	
New Mexico.....	5	132	.657	4	3	3	2	8	19	23	16	11	6	4					
Ohio.....	13	1,970	.761	(1)	1	1	3	2	10	22	25	18	9	8					
Oklahoma.....	2	135	.714	1	3	1	6	7	17	16	17	12	13	6	1				
Pennsylvania.....	28	4,117	.753	1	1	2	3	4	14	19	19	15	9	10	2	1		(1)	(1)
Tennessee.....	4	119	.725	3	5	7	8	3	16	18	8	10	6	12	5	1			
Utah.....	5	235	.943	(1)		(1)	2	2	1	9	17	19	17	20	7	4		3	
Virginia.....	4	230	.627	1	2	5	5	10	23	24	13	7	3	4	1		(1)		
West Virginia.....	13	749	.778	1	1	2	4	4	14	18	15	12	10	11	5	2		1	1
Wyoming.....	3	74	.809			1	1	4	9	18	20	16	16	12		1			
Total.....	128	13,345	.774	1	1	2	3	4	12	17	18	14	11	12	3	1	(1)	(1)	

¹Less than one-half of 1 per cent.

TABLE H.—AVERAGE EARNINGS PER HOUR, AND NUMBER AND PER CENT OF EMPLOYEES EARNING EACH CLASSIFIED AMOUNT PER HOUR IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Continued.

PER CENT—Continued.

Occupation and State.	Number of mines.	Number of employees.	Average earnings per hour.	Employees whose average earnings per hour in a half-month pay-roll period were—														
				Under 30 cents.	30 and under 35 cents.	35 and under 40 cents.	40 and under 45 cents.	45 and under 50 cents.	50 and under 60 cents.	60 and under 70 cents.	70 and under 80 cents.	80 and under 90 cents.	90 and under \$1.00.	\$1.00 and under \$1.25.	\$1.25 and under \$1.50.	\$1.50 and under \$1.75.	\$1.75 and under \$2.00.	\$2.00 and over.
Inside work—Continued.																		
Miners, hand:																		
Alabama.....	4	455	\$0.679	2	3	3	5	6	20	14	25	9	4	7	2	(1)		
Colorado.....	16	1,268	.773	2	2	2	3	4	11	16	16	14	10	14	3	1	(1)	(1)
Illinois.....	8	1,669	.767	1	2	3	4	5	13	14	16	15	11	11	3	1		(1)
Indiana.....	4	525	.644	(1)	1	4	7	10	27	22	11	8	5	5	(1)	(1)	(1)	
Iowa.....	11	962	.705	4	2	3	4	4	14	20	17	12	9	8	1	(1)		
Kansas.....	12	1,482	.795	2	2	3	4	5	11	14	12	13	12	15	5	2	1	(1)
Kentucky.....	10	192	.641	2	4	11	9	7	22	19	10	5	4	4	3	1	1	
Maryland.....	5	491	.945	(1)		(1)	(1)	2	3	10	11	19	18	25	8	2	2	(1)
Missouri.....	8	629	.636		3	5	6	9	20	23	16	7	4	3	1	(1)	1	
New Mexico.....	6	528	.726	5	4	4	6	5	12	15	14	13	8	10	2		1	
Ohio.....	2	13	.767				8			15	31	31	8	8				
Oklahoma.....	7	354	.829	3	2	3	6	4	12	12	13	6	10	15	9	3		(1)
Pennsylvania.....	28	1,859	.899	1	1	1	2	2	7	12	14	15	14	20	7	3	1	(1)
Tennessee.....	7	367	.686	2	3	2	7	8	19	13	17	13	8	7	1			
Utah.....	5	206	.932		(1)	(1)	1	1	5	9	13	15	15	29	9	2		
West Virginia.....	5	168	.907	1	1	1	3	5	8	12	17	8	14	13	11	2	2	
Wyoming.....	4	169	1.046						1	5	8	14	14	39	13	6		
Other States.....	1	42	1.107			2			5	5			19	52	10	7		
Total.....	143	11,379	.785	2	2	3	4	5	13	15	15	13	11	14	4	1	(1)	(1)
Miners, machine:																		
Colorado.....	11	66	1.061	2				3	8	9	5	6	15	30	15	6	2	
Illinois.....	10	280	1.078	(1)	1		(1)	(1)	6	6	9	7	11	35	8	10	5	
Indiana.....	7	136	1.182						4	10	10	14	13	15	15	12	7	1
Iowa.....	2	12	.737							42	17	33	8					4
Kentucky.....	14	130	.769	1	2	2	2	2	17	31	15	10	5	8	4		1	
Missouri.....	6	112	.666							91		2	3	4	1			
New Mexico.....	5	35	1.023		6				3	6	17	20	11	26	9	3	6	
Ohio.....	13	245	.971				1	2	3	7	13	15	12	31	13	2	2	(1)
Oklahoma.....	2	12	.670							100								

Pennsylvania.....	26	546	.890	(1)	(1)	(1)	1	2	4	34	6	10	9	19	8	3	1	1
Tennessee.....	3	15	.504			7	40		53									
Utah.....	7	22	1.254								14	18	9	14	14	18	5	9
Virginia.....	4	27	.722					11	7	41	19	11	4	7				
West Virginia.....	8	62	.808				2	2	21	16	15	5	5	23	10	3		
Other States.....	2	21	1.180			5			5	10	5		5	24	33	5		10
Total.....	120	1,721	.926	(1)	(1)	(1)	1	2	6	24	9	9	9	21	9	5	2	1
Motormen:																		
Alabama.....	3	9	.538						89	11								
Colorado.....	12	42	.666							98	2							
Illinois.....	13	86	.689						1	79	20							
Indiana.....	11	60	.687							100								
Iowa.....	5	10	.642							100								
Kansas.....	9	15	.695							100								
Kentucky.....	19	113	.541						100									
Maryland.....	5	30	.631							100								
Missouri.....	3	12	.627							100								
New Mexico.....	4	12	.655							100								
Ohio.....	13	58	.627							100								
Pennsylvania.....	30	272	.654						1	93	5	1						
Tennessee.....	3	21	.495				5	5	90									
Utah.....	6	20	.712								100							
Virginia.....	4	59	.495			5			95									
West Virginia.....	13	73	.520				1	48	42	8								
Other States.....	1	2	.625							100								
Total.....	154	894	.619			(1)	(1)	4	26	64	6	(1)						
Pumpmen:																		
Alabama.....	3	21	.416			57	24	19										
Colorado.....	13	24	.634						17	83								
Illinois.....	8	29	.615							100								
Indiana.....	9	11	.648							91	9							
Kentucky.....	12	41	.528			2	10	17	71									
Maryland.....	5	13	.572						92	8								
Missouri.....	6	8	.625							100								
New Mexico.....	3	4	.660							100								
Ohio.....	6	10	.607						70	30								
Oklahoma.....	5	15	.625							100								
Pennsylvania.....	28	122	.609			2	2		43	47	7							
Tennessee.....	5	7	.408		14		57	29										
Utah.....	4	8	.670							88	13							
Virginia.....	2	15	.398		13		73		7									
West Virginia.....	3	8	.488				25	13	63									
Wyoming.....	3	5	.665							100								
Other States.....	2	3	.606						33	67								
Total.....	117	344	.586			1	4	8	4	32	47	3						

Less than one-half of 1 per cent.

TABLE H.—AVERAGE EARNINGS PER HOUR, AND NUMBER AND PER CENT OF EMPLOYEES EARNING EACH CLASSIFIED AMOUNT PER HOUR IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Continued.

PER CENT—Continued.

Occupation and State.	Number of mines.	Number of employees.	Average earnings per hour.	Employees whose average earnings per hour in a half-month pay-roll period were—													
				Under 30 cents.	30 and under 35 cents.	35 and under 40 cents.	40 and under 45 cents.	45 and under 50 cents.	50 and under 60 cents.	60 and under 70 cents.	70 and under 80 cents.	80 and under 90 cents.	90 and under \$1.00.	\$1.00 and under \$1.25.	\$1.25 and under \$1.50.	\$1.50 and under \$1.75.	\$1.75 and under \$2.00.	$2.00 and over.
<i>Inside work—Concluded.</i>																	
Trackmen:																	
Alabama.....	5	18	\$0.471				39	33	28								
Colorado.....	17	57	.668							100							
Illinois.....	15	190	.625							100							
Indiana.....	9	72	.625							100							
Iowa.....	11	30	.626							100							
Kansas.....	12	31	.633							94	6						
Kentucky.....	19	148	.518			1	10	26	63								
Maryland.....	5	14	.623						7	93							
Missouri.....	9	20	.629							100							
New Mexico.....	6	27	.662							100							
Ohio.....	13	67	.625							100							
Oklahoma.....	4	11	.625							100							
Pennsylvania.....	29	210	.630						6	93	1						
Tennessee.....	6	28	.477				11	86	4								
Utah.....	7	26	.692							73	27						
Virginia.....	4	62	.470			2	35	11	50	2							
West Virginia.....	12	98	.530			1	10	30	51	8							
Wyoming.....	4	13	.677							100							
Total.....	187	1,122	.598			(1)	5	9	17	67	1						
Trappers (boys):																	
Alabama.....	4	36	.239	94			6										
Colorado.....	9	27	.412		7	48	26	11	4	4							
Illinois.....	13	98	.363		85		1	1	10	3							
Indiana.....	9	40	.339		88	10		3									
Iowa.....	6	17	.334		94	6											
Kansas.....	4	9	.337		89			11									
Kentucky.....	10	28	.305	82	4	7	4	4									
New Mexico.....	5	14	.388	14		64	7		14								
Ohio.....	12	88	.344		85	6	9										
Oklahoma.....	5	39	.335		85	15											
Pennsylvania.....	8	32	.332		94	6											
Tennessee.....	5	42	.270	90	7	2											

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Virginia.....	3	8	.313	25	50	25	28	8	8								
West Virginia.....	8	53	.380	21	21	15	28	8	8								
Other States.....	2	5	.349		40	60											
Total.....	103	536	.339	21	57	10	7	2	3	1							
Total inside.....	201	36,189	.726	1	2	2	5	4	15	28	12	10	8	10	3	1	(1)
Outside work.....																	
Blacksmiths:																	
Alabama.....	4	10	.549					10	60	30							
Colorado.....	17	26	.624						4	88	8						
Illinois.....	16	43	.646						14	79	7						
Indiana.....	11	23	.614						4	96							
Iowa.....	9	16	.662							88	13						
Kansas.....	12	14	.680							100							
Kentucky.....	19	36	.544					11	69	19							
Maryland.....	5	7	.634							100							
Missouri.....	9	11	.666							100							
New Mexico.....	6	12	.635						25	50	25						
Ohio.....	13	28	.655							89	7	4					
Oklahoma.....	5	8	.689							100							
Pennsylvania.....	29	86	.608					1	43	44	12						
Tennessee.....	6	10	.472				20	30	50								
Utah.....	7	16	.709							38	63						
Virginia.....	2	3	.498					33		67							
West Virginia.....	13	22	.589					14		23	55	9					
Wyoming.....	4	5	.676							100							
Total.....	187	376	.621				2	2	24	63	9	(1)					
Carpenters:																	
Alabama.....	3	12	.488						83	17							
Colorado.....	12	20	.661							75	25						
Illinois.....	13	31	.605							71	29						
Indiana.....	2	4	.675							75		25					
Iowa.....	4	5	.613							20	60	20					
Kansas.....	2	2	.750								100						
Kentucky.....	7	18	.477				6	11	61	22							
Maryland.....	5	8	.618								100						
Missouri.....	4	4	.605								100						
New Mexico.....	4	15	.612						7	13	67	13					
Ohio.....	8	15	.611							40	60						
Oklahoma.....	3	6	.603								100						
Pennsylvania.....	25	83	.567						1	69	29	1					
Tennessee.....	2	6	.455				17		83								
Utah.....	7	10	.683								80	20					
West Virginia.....	5	14	.530					7	29	50	14						
Wyoming.....	3	4	.688								100						
Other States.....	1	3	.482					33		67							
Total.....	110	260	.585			1	2	12	40	40	5	(1)					

¹ Less than one-half of 1 per cent.

TABLE H.—AVERAGE EARNINGS PER HOUR, AND NUMBER AND PER CENT OF EMPLOYEES EARNING EACH CLASSIFIED AMOUNT PER HOUR IN BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Concluded.

PER CENT—Concluded.

Occupation and State.	Number of mines.	Number of employees.	Average earnings per hour.	Employees whose average earnings per hour in a half-month pay-roll period were—														
				Under 30 cents.	30 and under 35 cents.	35 and under 40 cents.	40 and under 45 cents.	45 and under 50 cents.	50 and under 60 cents.	60 and under 70 cents.	70 and under 80 cents.	80 and under 90 cents.	90 and under \$1.00.	\$1.00 and under \$1.25.	\$1.25 and under \$1.50.	\$1.50 and under \$1.75.	\$1.75 and under \$2.00.	\$2.00 and over.
Outside work—Concluded.																		
Engineers:																		
Alabama.....	4	12	\$0.480				8	75	17									
Colorado.....	17	51	.612					4	39	55	2							
Illinois.....	16	56	.659						5	80	14							
Indiana.....	11	23	.702					4	4	35	52	4						
Iowa.....	11	20	.592						55	35	5		5					
Kansas.....	12	15	.604						33	67								
Kentucky.....	5	6	.478				33	17	50									
Maryland.....	5	7	.613						43	57								
Missouri.....	11	21	.565				5	5	57	33								
New Mexico.....	3	29	.616					14	14	69		3						
Ohio.....	4	7	.494						43	14								
Oklahoma.....	8	17	.570						71	29								
Pennsylvania.....	20	49	.592					2	53	37	8							
Tennessee.....	6	18	.439			22	22	33	22									
Utah.....	7	29	.661						10	79	7	3						
West Virginia.....	5	10	.512						60	10	10							
Wyoming.....	4	8	.671			10	10			100								
Other States.....	1	2	.500						100									
Total.....	150	380	.601			2	2	7	32	49	8	1	(1)					
Firemen:																		
Alabama.....	4	32	.402			38	63											
Colorado.....	13	31	.560				16		52	32								
Illinois.....	15	64	.594						98	2								
Indiana.....	11	30	.468			27	13	40	13	7								
Iowa.....	7	8	.552						75	25								
Kansas.....	9	25	.545						100									
Kentucky.....	8	19	.387		21	47	26	5										
Maryland.....	4	25	.580						96	4								
Missouri.....	8	14	.541					21	71	7								

Ohio.....	6	14	.593						71	29								
Oklahoma.....	6	24	.544						100									
Pennsylvania.....	16	110	.572					1	87	11	1							
Tennessee.....	4	11	.376			100												
Utah.....	4	18	.618					6	6	89								
West Virginia.....	3	11	.451			9	64		27									
Other States.....	2	7	.515	29	14					57								
Total.....	122	443	.537	(1)	1	9	9	4	64	12	(1)							
Laborers:																		
Alabama.....	5	140	.375	4	26	46	21	4										
Colorado.....	18	257	.504			(1)		59	40	1								
Illinois.....	16	251	.551		(1)		(1)	1	98	1								
Indiana.....	10	122	.548					1	93	7								
Iowa.....	11	72	.531						99	1								
Kansas.....	12	48	.549						96	4								
Kentucky.....	19	245	.436	(1)	13	2	52	23	10	(1)								
Maryland.....	5	57	.527		4	2	4	5	81	5								
Missouri.....	10	62	.547				3		92	5								
New Mexico.....	6	114	.465		4	8	21	39	28									
Ohio.....	13	146	.561					1	96	3								
Oklahoma.....	8	47	.546						100									
Pennsylvania.....	31	804	.515			(1)	2	25	70	3								
Tennessee.....	6	117	.363		56	3	35	4	1									
Utah.....	7	129	.588						73	27								
Virginia.....	4	42	.397	5	2	38	45		10									
West Virginia.....	13	162	.436	1	8	28	23	2	37	1								
Wyoming.....	4	45	.582						82	18								
Total.....	198	2,860	.502	(1)	5	5	10	17	59	3								
Total outside.....	201	4,319	.534	(1)	4	5	8	13	53	16	2	(1)	(1)					
Total inside and outside.....	201	40,508	.699	1	2	2	5	5	19	27	11	9	7	9	3	1	(1)	(1)

¹ Less than one-half of 1 per cent.

TABLE J.—AVERAGE FULL-TIME EARNINGS, AVERAGE EARNINGS ACTUALLY RECEIVED, AND NUMBER OF EMPLOYEES EARNING EACH CLASSIFIED AMOUNT IN A HALF-MONTH PAY-ROLL PERIOD, ANTHRACITE COAL MINES, PENNSYLVANIA, 1919 AND 1920, BY OCCUPATIONS—Concluded.

Occupation.	Year.	Number of mines.	Number of employees.	Average full-time earnings in a half-month pay-roll period.	Average earnings in a half-month pay-roll period.	Number of employees whose earnings in a half-month pay-roll period were—																						
						Under \$5.	\$5 and under \$10.	\$10 and under \$15.	\$15 and under \$20.	\$20 and under \$25.	\$25 and under \$30.	\$30 and under \$35.	\$35 and under \$40.	\$40 and under \$45.	\$45 and under \$50.	\$50 and under \$60.	\$60 and under \$70.	\$70 and under \$80.	\$80 and under \$90.	\$90 and under \$100.	\$100 and under \$110.	\$110 and under \$120.	\$120 and under \$130.	\$130 and under \$140.	\$140 and under \$150.	\$150 and over.		
Outside work—Concd.																												
Repairmen	1919	10	113	\$54.31	\$59.90	1	1	1	2		2	2	2	5	7	36	21	17	9	6	1							
	1920	5	21	53.71	58.24										3	12	4	1		1								
Slaters (boys)	1919	21	580	33.41	29.95	8	11	17	21	64	159	193	61	16	13	13	3	1										
	1920	15	345	33.95	30.51	4	5	10	14	39	52	146	51	10	9	4	1											
Timber cutters	1919	19	115	50.67	58.91	2				1	1	1	1	1	10	47	33	7	10	1								
	1920	14	92	50.40	57.31	1	2		1		2	1	2	2	11	29	28	9	4	1								
Trackmen	1919	14	28	53.40	55.26		1				2		1	1	2	11	5	4	1									
	1920	8	26	51.10	60.43							2		1	4	7	5	4	3									
Total outside	1919	22	3,930	50.81	54.37	42	50	52	65	119	211	281	191	183	367	804	639	484	260	123	32	16	9	2				
	1920	16	2,513	51.70	55.81	16	12	29	31	54	82	206	141	97	313	487	472	281	180	76	28	5	3					
Total inside and outside	1919	22	16,175	69.57	62.55	182	269	293	293	365	448	586	569	551	871	2,944	3,035	2,321	1,407	873	473	291	165	100	51	88		
	1920	16	10,821	73.39	65.60	104	112	129	148	178	245	423	354	371	649	1,752	2,069	1,681	985	609	378	234	158	99	59	84		

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TABLE K.—AVERAGE FULL-TIME EARNINGS, AVERAGE EARNINGS ACTUALLY RECEIVED, AND NUMBER OF EMPLOYEES EARNING EACH CLASSIFIED AMOUNT IN A HALF-MONTH PAY-ROLL PERIOD, BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Continued.

Occupation and State.	Number of mines.	Number of employees.	Average full-time earnings in a half-month pay-roll period.	Average earnings in a half-month pay-roll period.	Number of employees whose earnings in a half-month pay-roll period were—																				
					Under \$5.	\$5 and under \$10.	\$10 and under \$15.	\$15 and under \$20.	\$20 and under \$25.	\$25 and under \$30.	\$30 and under \$35.	\$35 and under \$40.	\$40 and under \$45.	\$45 and under \$50.	\$50 and under \$60.	\$60 and under \$70.	\$70 and under \$80.	\$80 and under \$90.	\$90 and under \$100.	\$100 and under \$110.	\$110 and under \$120.	\$120 and under \$130.	\$130 and under \$140.	\$140 and under \$150.	\$150 and over.
<i>Inside work—Continued.</i>																									
Bratticemen and timbermen—Con																									
Missouri.....	4	19	\$65.24	\$50.76	.....	.....	.....	.....	.....	.....	1	.....	2	3	10	3	.....	3	.....	.....	.....	.....	.....	.....	.....
New Mexico.....	5	23	71.53	63.67	.....	.....	.....	.....	.....	1	.....	2	1	1	7	2	4	3	2	.....	.....	.....	.....	.....	.....
Ohio.....	11	70	65.24	66.45	.....	.....	.....	1	.....	1	1	.....	.....	2	5	38	10	10	.....	1	1	.....	.....	.....	.....
Oklahoma.....	6	51	65.16	58.14	.....	.....	1	1	.....	1	1	3	1	.....	14	13	10	4	1	.....	.....	.....	.....	.....	.....
Pennsylvania.....	29	172	68.79	55.77	1	.....	3	1	3	3	9	5	8	27	44	35	15	10	6	2	.....	.....	.....	.....	.....
Tennessee.....	4	18	36.46	29.97	1	.....	.....	1	1	5	5	4	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Utah.....	5	10	71.91	61.50	.....	.....	.....	.....	1	1	.....	.....	.....	1	1	1	3	2	.....	.....	.....	.....	.....	.....	.....
Virginia.....	4	19	49.95	25.67	3	2	1	1	2	.....	2	2	5	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
West Virginia.....	10	54	56.97	50.70	.....	.....	1	1	.....	4	3	3	4	6	17	11	3	.....	1	.....	.....	.....	.....	.....	.....
Wyoming.....	4	15	70.48	38.38	.....	.....	1	1	.....	3	.....	3	4	1	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	163	932	62.97	51.78	14	9	19	19	20	26	46	54	73	100	215	192	87	40	12	4	2	.....	.....	.....	.....
Cagers:																									
Colorado.....	6	15	71.12	59.39	.....	.....	.....	.....	.....	.....	.....	4	1	.....	1	3	5	1	.....	.....	.....	.....	.....	.....	.....
Illinois.....	16	39	64.59	53.81	.....	1	.....	1	.....	.....	.....	3	5	4	14	4	6	1	.....	.....	.....	.....	.....	.....	.....
Indiana.....	11	43	50.80	39.40	.....	1	1	.....	1	3	8	11	5	4	6	1	1	1	.....	.....	.....	.....	.....	.....	.....
Iowa.....	11	19	65.32	51.00	.....	3	.....	.....	.....	1	.....	1	3	1	.....	6	2	2	.....	.....	.....	.....	.....	.....	.....
Kansas.....	12	31	65.52	51.42	.....	.....	.....	.....	.....	.....	2	6	2	5	7	6	3	.....	.....	.....	.....	.....	.....	.....	.....
Maryland.....	2	2	64.48	70.68	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Missouri.....	8	16	70.84	43.57	.....	2	.....	.....	.....	1	.....	.....	3	4	4	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ohio.....	5	11	65.00	69.09	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	4	3	1	1	.....	.....	.....	.....	.....	.....
Pennsylvania.....	13	32	66.29	58.41	.....	.....	.....	.....	.....	.....	1	1	5	2	8	9	5	1	.....	.....	.....	.....	.....	.....	.....
Wyoming.....	2	5	70.45	51.89	.....	.....	.....	.....	.....	.....	.....	2	.....	1	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Other States.....	4	7	58.70	57.73	.....	.....	.....	.....	.....	.....	.....	2	1	1	1	1	.....	.....	.....	.....	.....	1	.....	.....	.....
Total.....	90	220	63.20	51.72	.....	7	1	1	1	6	11	30	25	23	42	37	26	7	2	.....	.....	1	.....	.....	.....

[illegible]

TABLE K.—AVERAGE FULL-TIME EARNINGS, AVERAGE EARNINGS ACTUALLY RECEIVED, AND NUMBER OF EMPLOYEES EARNING EACH CLASSIFIED AMOUNT IN A HALF-MONTH PAY-ROLL PERIOD, BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Concluded.

Occupation and State.	Number of mines.	Number of employees.	Average full-time earnings in a half-month pay-roll period.	Average earnings in a half-month pay-roll period.	Number of employees whose earnings in a half-month pay-roll period were—																				
					Under \$5.	\$5 and under \$10.	\$10 and under \$15.	\$15 and under \$20.	\$20 and under \$25.	\$25 and under \$30.	\$30 and under \$35.	\$35 and under \$40.	\$40 and under \$45.	\$45 and under \$50.	\$50 and under \$60.	\$60 and under \$70.	\$70 and under \$80.	\$80 and under \$90.	\$90 and under \$100.	\$100 and under \$110.	\$110 and under \$120.	\$120 and under \$130.	\$130 and under \$140.	\$140 and under \$150.	\$150 and over.
Inside work—Concluded.																									
Loaders—Concluded.																									
Oklahoma.....	2	135	\$72.97	\$48.53	.....	1	3	7	6	9	12	10	10	14	22	20	15	5	.....	1	.....	.....	.....	.....	
Pennsylvania.....	28	4,117	84.67	55.21	25	63	78	107	130	171	232	303	356	344	665	599	427	295	158	75	44	19	17	7	2
Tennessee.....	4	119	62.67	33.36	2	5	19	11	10	18	14	6	10	5	5	5	1	3	2	2	1	.....	.....	.....	
Utah.....	5	235	99.14	57.95	.....	6	4	4	7	4	8	12	22	29	39	34	30	16	6	6	4	2	.....	2	.....
Virginia.....	4	230	66.16	38.93	5	15	12	12	15	17	16	28	23	30	27	17	4	6	2	.....	1	.....	.....	.....	
West Virginia.....	13	749	88.05	47.53	9	21	31	33	46	48	74	73	66	54	94	75	42	29	20	10	14	2	7	.....	1
Wyoming.....	3	74	81.42	45.85	4	4	2	7	6	3	6	3	3	2	8	11	6	3	6	.....	.....	.....	.....	.....	.....
Total.....	128	13,345	81.24	50.51	130	319	352	459	624	770	924	1,009	1,157	1,113	2,170	1,713	1,154	735	376	166	96	35	27	10	6
Miners, hand:																									
Alabama.....	4	455	59.53	40.41	7	15	25	26	25	31	42	48	55	49	63	45	15	6	2	.....	.....	1	.....	.....	.....
Colorado.....	16	1,268	80.85	47.42	18	40	42	44	47	95	92	100	119	111	216	148	100	49	20	17	8	1	1	.....	.....
Illinois.....	8	1,669	79.20	47.72	15	19	33	57	88	128	157	172	152	134	215	225	172	76	18	2	5	1	.....	.....	.....
Indiana.....	4	525	50.68	36.47	4	8	21	32	46	80	74	66	66	32	53	30	12	1	.....	.....	.....	.....	.....	.....	.....
Iowa.....	11	962	73.23	43.37	10	22	25	43	70	61	85	96	99	114	185	84	43	14	3	5	1	1	.....	.....	.....
Kansas.....	12	1,482	82.62	42.75	15	27	50	78	117	128	145	154	154	139	212	125	65	37	22	11	1	1	.....	.....	.....
Kentucky.....	10	192	59.13	34.49	3	10	14	18	25	18	18	23	10	17	24	3	2	2	3	2	.....	.....	.....	.....	.....
Maryland.....	5	491	99.98	50.57	3	2	4	18	16	18	21	47	41	63	115	93	27	13	7	2	1	.....	.....	.....	.....
Missouri.....	8	629	64.20	36.42	9	15	42	46	51	76	74	69	69	57	66	30	14	8	1	1	1	.....	.....	.....	.....
New Mexico.....	6	528	74.74	52.12	9	12	12	22	19	33	35	41	37	42	84	61	44	39	16	12	2	2	1	3	2
Ohio.....	2	13	80.79	63.56	.....	.....	1	.....	.....	.....	1	.....	.....	1	3	2	1	3	1	.....	.....	.....	.....	.....	.....
Oklahoma.....	7	354	85.52	53.82	1	10	15	16	14	21	18	30	25	31	42	36	32	22	14	12	7	3	4	.....	1
Pennsylvania.....	28	1,859	98.60	57.49	16	24	45	46	43	62	109	117	125	155	315	262	212	134	81	50	35	14	6	7	1
Tennessee.....	7	367	62.96	34.08	3	7	22	32	49	47	37	43	39	34	40	10	2	.....	.....	.....	.....	.....	.....	.....	.....
Utah.....	5	206	97.75	57.66	2	10	5	3	6	9	10	12	8	13	33	27	28	15	11	7	2	4	.....	1	.....
West Virginia.....	5	168	101.41	52.58	1	3	6	8	11	5	11	12	19	12	23	21	10	9	6	3	4	2	.....	2	.....
Wyoming.....	4	169	109.88	57.09	.....	.....	5	1	2	7	6	7	17	19	33	31	16	11	11	3	.....	.....	.....	.....	.....
Other States.....	1	42	112.95	54.04	3	.....	.....	1	4	2	2	2	.....	1	4	7	8	2	4	.....	.....	.....	.....	.....	.....
Total.....	143	11,379	80.83	47.12	119	224	367	491	633	821	937	1,039	1,037	1,024	1,726	1,240	803	443	220	127	67	30	16	11	4

TABLE K.—AVERAGE FULL-TIME EARNINGS, AVERAGE EARNINGS ACTUALLY RECEIVED, AND NUMBER OF EMPLOYEES EARNING EACH CLASSIFIED AMOUNT IN A HALF-MONTH PAY-ROLL PERIOD, BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Continued.

Occupation and State.	Number of mines.	Number of employees.	Average full-time earnings in a half-month pay-roll period.	Average earnings in a half-month pay-roll period.	Number of employees whose earnings in a half-month pay-roll period were—																						
					Under \$5.	\$5 and under \$10.	\$10 and under \$15.	\$15 and under \$20.	\$20 and under \$25.	\$25 and under \$30.	\$30 and under \$35.	\$35 and under \$40.	\$40 and under \$45.	\$45 and under \$50.	\$50 and under \$60.	\$60 and under \$70.	\$70 and under \$80.	\$80 and under \$90.	\$90 and under \$100.	\$100 and under \$110.	\$110 and under \$120.	\$120 and under \$130.	\$130 and under \$140.	\$140 and under \$150.	\$150 and over.		
Inside work—Concluded.																											
Pumpmen—Concluded.																											
Utah.....	4	8	\$69.67	\$61.76				1							1		3	2	1								
Virginia.....	2	15	48.78	24.35	4		2		1	2	3	1				1											
West Virginia.....	3	8	58.10	42.00					2		1	1	2		1		1		1								
Wyoming.....	3	5	79.63	63.68					1							1		2	1								
Other States.....	2	3	68.34	55.13				1								1	1										
Total.....	117	344	68.35	61.01	10	8	6	6	10	11	11	13	22	17	31	50	74	39	15	12	6		2			1	
Trackmen:																											
Alabama.....	5	18	46.24	34.20			4				1	1	5	4	1	2											
Colorado.....	17	57	69.44	54.47			2		1	1	2	5	4	5	8	18	8	2									
Illinois.....	15	190	64.98	46.20		6	1	2	6	7	7	15	30	23	54	35	3	1									
Indiana.....	9	72	50.00	44.28			1	3		2	4	4	7	19	30	7											
Iowa.....	11	30	65.16	56.09								1	3	4	7		5	1									
Kansas.....	12	31	65.83	45.69			1		2	1	1	4	2	5	10	2	1	1									
Kentucky.....	19	148	53.63	40.07	4	9	5	13	6	4	12	14	10	26	26	11	7	1									
Maryland.....	5	14	64.81	51.73		1						1			3	5	2										
Missouri.....	9	20	65.46	48.27				1					3	4	4												
New Mexico.....	6	27	68.98	57.08		1	1				1		4	2	4		5	4									
Ohio.....	13	67	64.97	68.67								2	1	4	4	25	17	9	5								
Oklahoma.....	4	11	65.00	48.98			1				1		1	2	1	3	2										
Pennsylvania.....	29	210	70.08	60.65	1	1		1	5	3	9	5	13	17	47	54	27	10	7	6	2	2					
Tennessee.....	6	28	44.53	33.31		2	1		5	2	7	1	2	6	2												
Utah.....	7	26	71.99	53.16					1			2	2		4	7	5	1									
Virginia.....	4	62	48.83	29.08	8	4		1	8	9	5	13	6	4	3	1											
West Virginia.....	12	98	59.07	46.72	2	3	2	4	6	1	9	10	7	11	21	11	5	2	2	1		1					
Wyoming.....	4	13	70.48	55.29								1		3	7	1	1										
Total.....	187	1,122	61.84	49.23	15	31	17	29	40	33	61	86	99	136	237	194	87	31	14	7	2	3					

Trappers (boys):

[illegible]

Total.....

Total inside.

Outside work.

Blacksmiths:

[illegible]

Total.....

Carpenters:

[illegible]

TABLE K.—AVERAGE FULL-TIME EARNINGS, AVERAGE EARNINGS ACTUALLY RECEIVED, AND NUMBER OF EMPLOYEES EARNING EACH CLASSIFIED AMOUNT IN A HALF-MONTH PAY-ROLL PERIOD, BITUMINOUS COAL MINES, 1919, BY OCCUPATIONS AND STATES—Concluded.

Occupation and State.	Number of mines.	Number of employees.	Average full-time earnings in a half-month pay-roll period.	Average earnings in a half-month pay-roll period.	Number of employees whose earnings in a half-month pay-roll period were—																				
					Under \$5.	\$5 and under \$10.	\$10 and under \$15.	\$15 and under \$20.	\$20 and under \$25.	\$25 and under \$30.	\$30 and under \$35.	\$35 and under \$40.	\$40 and under \$45.	\$45 and under \$50.	\$50 and under \$60.	\$60 and under \$70.	\$70 and under \$80.	\$80 and under \$90.	\$90 and under \$100.	\$100 and under \$110.	\$110 and under \$120.	\$120 and under \$130.	\$130 and under \$140.	\$140 and under \$150.	\$150 and over.
Outside work—Concluded.																									
Carpenters—Concluded.																									
Maryland.....	5	8	\$64.16	\$60.39							1			2	2	2						1			
Missouri.....	4	4	64.97	37.36	1						1			1		1									
New Mexico.....	4	15	72.79	58.50		1					1		2	2		5	3	2							
Ohio.....	8	15	63.68	63.41					1				1			2	8	1	1	1					
Oklahoma.....	3	6	62.66	57.64				1							1	3		1	1						
Pennsylvania.....	25	83	68.18	60.38		2			1		1	3	3	11	20	19	17	6							
Tennessee.....	2	6	45.63	41.86						1	1			1	2										
Utah.....	7	10	71.08	67.00											4	3	1	2							
West Virginia.....	5	14	59.35	51.38							3	2	1	2	2	1	2	1							
Wyoming.....	3	4	71.53	70.81												1	3								
Other States.....	1	3	49.92	32.95						1		2													
Total.....	110	260	64.10	56.43	3	5	4	3	3	5	12	14	16	26	44	63	39	19	3		1				
Engineers:																									
Alabama.....	4	12	51.38	46.87	1								2	4	4	1									
Colorado.....	17	51	72.36	65.94			1			1		5	2	2	5	6	20	6	3						
Illinois.....	16	56	74.65	78.48							1				2	1	6	22	18	4		1			1
Indiana.....	11	23	79.54	77.61													1	20	1	1					
Iowa.....	11	20	77.22	73.28					1		1	1					3	8	2	2	1		1		
Kansas.....	12	15	81.30	81.97									1				1	5	2	5	1				
Kentucky.....	5	6	64.36	61.84										1	2	1	2								
Maryland.....	5	7	75.44	80.93											1	1	2	1			1	1			
Missouri.....	11	21	72.17	69.03								1	1	1	1		4	13	1						
New Mexico.....	3	29	75.31	58.30			1				1	4	2	5	2	8	1	3	1		1				
Ohio.....	4	7	78.61	77.68											1	1	2	2			1				
Oklahoma.....	8	17	85.89	84.82						2					1	1		1	4	4		4			
Pennsylvania.....	20	49	74.16	75.23	1							2	1		5	10	10	9	3	3	3	1			1
Tennessee.....	6	18	41.53	40.63					1	2	4		5	3	2	1									
Utah.....	7	29	74.62	67.34				1		1	1	1	2			8	6	8		1					

West Virginia	5	10	71.04	66.43				1						3	2		2	2							
Wyoming	4	8	73.69	62.20						1		1	1	1	2		1	1							
Other States	1	2	52.00	39.25							1	1													
Total	150	380	72.77	69.67	2	2	2	2	6	9	16	18	19	28	56	112	60	26	8	9	3	1	1		
Firemen:																									
Alabama	4	32	46.16	38.33		1	2	2		4	5	1	3	6	8										
Colorado	13	31	73.90	67.35		1						2	2	1	2	3	16	1	1	2					
Illinois	15	64	67.76	63.18	1	2					1	2	1	1	2	26	27	1							
Indiana	11	30	65.81	58.16			1				1			3	9	14									
Iowa	7	8	73.62	55.37								3	1			3	12	5	1	1		1			
Kansas	9	25	65.39	62.84	1				1				1			6	4								
Kentucky	8	19	57.91	50.53	1			1				2		4		2	12	4	1						
Maryland	4	25	68.55	56.53		1		3		2					2	12	4	1	2						
Missouri	4	14	65.48	45.19		1			1	1	1	3	3		1	1	9	3	1						
Ohio	6	6	75.96	77.42												1	1	3	1						
Oklahoma	6	24	67.95	61.18							2		1		6	8	1								
Pennsylvania	16	110	73.07	67.33		1	3		1		3		1	4	24	18	33	12	5	5					
Tennessee	4	11	42.84	37.75		2				1	1	3		1	2	1									
Utah	6	18	71.44	66.67									2	1	2		10	2							
West Virginia	3	11	64.36	59.41		1				1				1	2	4	4								
Other States	2	7	56.57	49.35		1	1					1			1	3									
Total	122	443	66.88	60.26	3	8	9	5	3	10	14	17	15	23	69	108	119	24	8	8					
Laborers:																									
Alabama	5	140	35.40	28.18	6	11	8	5	13	28	33	15	12	3	4	2		1							
Colorado	18	257	58.16	43.58	5	9	7	4	9	9	28	26	22	40	66	27	4	1							
Illinois	16	251	57.22	45.54	3	6	3	5	8	6	27	29	41	28	41	38	13	2	1						
Indiana	10	122	43.93	40.73	3	1	2	4	4	9	14	19	24	16	15	9	1								
Iowa	11	72	55.20	43.25	2	1	1	3	3	5	3	8	7	14	18	6									
Kansas	12	48	37.20	49.08						2			4	5	22	3	2								
Kentucky	19	245	44.58	35.23	5	8	12	11	19	24	26	54	24	21	30	5									
Maryland	5	57	54.51	45.98				1	1	3	5	10	11	3	15	4	3	1							
Missouri	10	62	56.56	36.07	2	1		1	2	7	19	6	6	5	10	2									
New Mexico	6	114	54.26	41.52	4	1	2	1	11	4	10	14	12	16	29	9	1								
Ohio	14	146	58.48	52.47		3	2	1	1	1		6	13	16	65	27	8	1	1						
Oklahoma	8	47	56.79	53.08		1	2		1	1		4	4	2	14	13	1	3	1						
Pennsylvania	31	804	58.19	46.11	10	16	12	25	23	34	53	103	104	115	158	84	41	15	6	5					
Tennessee	6	117	31.68	22.58	2	7	11	36	23	16	8	6	7		1										
Utah	7	129	60.96	44.38	1	1	2	7	10	5	7	10	14	24	27	17	3	1							
Virginia	4	42	41.15	29.68	1	2	2	4	2	5	11	8	6	1											
West Virginia	13	162	49.59	36.42	5	4	11	4	8	20	16	28	21	14	22	8				1					
Wyoming	4	45	62.43	47.60	2	1	3				1	4	6		8	9	3	1							
Total	198	2,860	53.22	42.00	51	73	80	114	139	180	266	354	339	329	551	263	80	27	8	5	1				
Total outside	201	4,319	58.24	48.96	64	91	98	126	152	207	311	410	401	422	758	574	432	167	61	26	13	4		1	1
Total inside and outside	201	40,508	74.43	49.05	498	911	1,144	1,520	1,848	2,311	2,943	3,343	3,618	3,783	6,606	5,149	3,197	1,756	899	497	269	108	68	35	33

\$40 and under \$45.....										1	2	1	1						5
\$45 and under \$50.....											3	5		1					9
\$50 and under \$60.....												1	19	24	2				46
\$60 and under \$70.....													1	13	37	20			71
\$70 and under \$80.....															1	26	5		32
\$80 and under \$90.....																23	4	1	28
\$90 and under \$100.....																3	15	1	19
\$100 and under \$110.....																	2	5	7
Total.....		1			3	1	4	3	1	1	3	6	7	21	38	40	46	31	234

DOOR TENDERS (BOYS), INSIDE WORK—20 MINES.

Under \$5.....			1																1
\$5 and under \$10.....			2		1														3
\$10 and under \$15.....						3	6												9
\$15 and under \$20.....									2										2
\$20 and under \$25.....									1	5	4								10
\$25 and under \$30.....											8	7	11						26
\$30 and under \$35.....												3	29	64	1				97
\$35 and under \$40.....													1	46	20				67
\$40 and under \$45.....															7	8			15
\$45 and under \$50.....													1			4	2		7
\$50 and under \$60.....													2	5	1		1		9
\$60 and under \$70.....															1				1
Total.....			3		1	3	6		3	5	12	10	44	115	30	12	3		247

DRIVERS, INSIDE WORK—22 MINES.

Under \$5.....	1	5																	6
\$5 and under \$10.....			7																7
\$10 and under \$15.....				7			1												8
\$15 and under \$20.....						2													7
\$20 and under \$25.....							11												12
\$25 and under \$30.....								4	1										5
\$30 and under \$35.....									3						1				4
\$35 and under \$40.....										8					1				14
\$40 and under \$45.....											4								13
\$45 and under \$50.....											6	5			2				59
\$50 and under \$60.....											10	23	20	6					229
\$60 and under \$70.....												6	42	157	24				90
\$70 and under \$80.....												1		27	43				19
\$80 and under \$90.....																19	2		4
\$90 and under \$100.....																1	1	1	2
Total.....	1	5		7	7		3	14	6	4	9	20	35	64	191	69	37	6	479

TABLE L.—NUMBER OF EMPLOYEES WORKING EACH CLASSIFIED NUMBER OF ACTUAL HOURS AND EARNING EACH CLASSIFIED AMOUNT IN A HALF-MONTH PAY-ROLL PERIOD, IN SPECIFIED OCCUPATIONS AND IN ALL OCCUPATIONS, ANTHRACITE COAL MINES, PENNSYLVANIA, 1919—Continued.

LABORERS, INSIDE WORK—22 MINES.

Earnings in half month.	Number of employees in each earnings group whose hours of actual work in a half-month pay-roll period were—																				Total.
	Under 5 hours.	5 and under 10 hours.	10 and under 15 hours.	15 and under 20 hours.	20 and under 25 hours.	25 and under 30 hours.	30 and under 40 hours.	40 and under 50 hours.	50 and under 60 hours.	60 and under 70 hours.	70 and under 80 hours.	80 and under 90 hours.	90 and under 100 hours.	100 and under 110 hours.	110 and under 120 hours.	120 and under 130 hours.	130 and under 150 hours.	150 and under 170 hours.	170 and under 190 hours.	190 hours and over.	
Under \$5.		13	1																		14
\$5 and under \$10.			8	10																	18
\$10 and under \$15.					15	3															18
\$15 and under \$20.						3	23	2													28
\$20 and under \$25.							3	28													31
\$25 and under \$30.							2	5	15												24
\$30 and under \$35.									8	9											28
\$35 and under \$40.										10	16	1	1		6	1					39
\$40 and under \$45.											8	28	2	2		10	1				40
\$45 and under \$50.												1	25	38	4	5		1			74
\$50 and under \$60.												1	28	114	222		14		1		380
\$60 and under \$70.													1		4	128	137	41	3	4	324
\$70 and under \$80.																	14	87	20	2	135
\$80 and under \$90.																		8	23	4	36
\$90 and under \$100.																			2	6	8
\$100 and under \$110.																			1	2	3
Total.		13	9	10	15	6	28	35	23	20	27	56	71	130	367	166	136	50	17	21	1,200

LABORERS, COMPANY MINERS',¹ INSIDE WORK—19 MINES.

Under \$5.....	7	1	9																7
\$5 and under \$10.....				7	4														10
\$10 and under \$15.....																			11
\$15 and under \$20.....			3			7	1												11
\$20 and under \$25.....						2	14												16
\$25 and under \$30.....							5	11											16
\$30 and under \$35.....								2	9										11
\$35 and under \$40.....									4	13	1								18
\$40 and under \$45.....										4	23								27
\$45 and under \$50.....											22	19							41
\$50 and under \$60.....												86	115						234
\$60 and under \$70.....													68	71	4				153
\$70 and under \$80.....														3	14		2		53
\$80 and under \$90.....													1		3	15			19
\$90 and under \$100.....																	5		5
Total.....	7	1	12	7	4	9	20	13	13	17	46	48	86	184	78	65	17	5	632

LABORERS, CONTRACT MINERS', INSIDE WORK—21 MINES.

Under \$5.....	6	54	2	3			2												67
\$5 and under \$10.....		17	14	33	6	1	1	2											74
\$10 and under \$15.....		2	3	26	43	4	10	1	1			1							91
\$15 and under \$20.....				6	26	6	31	9	2				1						81
\$20 and under \$25.....				2	4	2	29	21	3	2	1	2	1						67
\$25 and under \$30.....					1	1	7	25	15	3	2	1							55
\$30 and under \$35.....							2	6	24	13	2	2	1	2	1				53
\$35 and under \$40.....						1	5	8	12	25	19	4	4	3					81
\$40 and under \$45.....								6	7	18	18	21	9	1	2				82
\$45 and under \$50.....									2	15	19	34	21	6	5				102
\$50 and under \$60.....							1	7	13	46	67	82	91	53	9				399
\$60 and under \$70.....										4	18	49	73	100	102	39			385
\$70 and under \$80.....										2	7	21	34	68	62	14	18		226
\$80 and under \$90.....												3	12	28	26	4	3		77
\$90 and under \$100.....								1				2	6	6	6	1			22
\$100 and under \$110.....												3	4	9	2	2			20
\$110 and under \$120.....													2	1					3
Total.....	6	73	19	70	80	15	87	79	74	95	133	210	249	316	259	69	21		1,855

¹ Including laborers, consideration miners'.

\$30 and under \$35.....	.....	.....	.....	.....	.....	.....	2	7	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10	
\$35 and under \$40.....	.....	.....	.....	.....	.....	.....	.....	16	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21	
\$40 and under \$45.....	.....	.....	.....	.....	.....	.....	.....	16	16	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	19	
\$45 and under \$50.....	.....	.....	.....	.....	.....	.....	.....	1	9	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	
\$50 and under \$60.....	.....	.....	.....	.....	.....	.....	.....	.....	3	20	15	11	1	.....	.....	.....	.....	.....	.....	50	
\$60 and under \$70.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17	32	67	2	.....	.....	.....	.....	.....	118	
\$70 and under \$80.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	95	46	.....	.....	.....	.....	.....	148	
\$80 and under \$90.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27	24	.....	.....	.....	.....	51	
\$90 and under \$100.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25	.....	.....	.....	.....	25	
\$100 and under \$110.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	2	
\$110 and under \$120.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	1	
\$120 and under \$130.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	2	
Total.....		7	3	4	2	8	8	9	24	23	15	21	32	50	163	75	49	2	1	2	498

MINERS, CONTRACT, INSIDE WORK—22 MINES.

Under \$5.....	1	8	6	2	2															19	
\$5 and under \$10.....		17	8	13	7	4	5	3												54	
\$10 and under \$15.....		3	7	10	13	3	17	10	4	1										56	
\$15 and under \$20.....				1	4	1	13	10	8	6	9	4	2	2	4					34	
\$20 and under \$25.....		3	1	6	2	2	7	9	8	6	9	4	2	2	4					59	
\$25 and under \$30.....				2	1	5	9	18	14	10	4	4	4	1	2	3				69	
\$30 and under \$35.....					2	2	9	10	12	7	11	11	3	1	4					70	
\$35 and under \$40.....					3	3	3	8	24	10	11	14	4	5						85	
\$40 and under \$45.....			1	1			4	6	12	22	21	15	9	6	7	3				107	
\$45 and under \$50.....						1	2	6	11	19	24	15	25	17	5	1				126	
\$50 and under \$60.....			1		1	1	1	5	16	31	50	79	88	80	52	12	4			422	
\$60 and under \$70.....						1	2	5	5	26	38	75	143	169	134	17	6	2	1	624	
\$70 and under \$80.....							5	5	5	12	38	86	139	217	261	28	2			793	
\$80 and under \$90.....					1		2	3	9	31	84	148	203	201	53	6			1	742	
\$90 and under \$100.....								1	4	28	64	120	166	150	33	12				578	
\$100 and under \$110.....								2	7	13	22	76	133	107	21	10			1	392	
\$110 and under \$120.....								1	4	9	27	47	60	78	24	12	2		2	266	
\$120 and under \$130.....									2	5	13	34	48	27	20	4				154	
\$130 and under \$140.....									1	1	4	10	30	24	18	7	3			98	
\$140 and under \$150.....									1		2	4	7	14	14	2	4		1	51	
\$150 and over.....									1	2	5	19	19	11	9	13	4	1	4	88	
Total.....	1	31	24	35	36	21	72	86	119	174	296	530	894	1,166	1,071	233	74	13	5	6	4,887

TABLE L.—NUMBER OF EMPLOYEES WORKING EACH CLASSIFIED NUMBER OF ACTUAL HOURS AND EARNING EACH CLASSIFIED AMOUNT IN A HALF-MONTH PAY-ROLL PERIOD, IN SPECIFIED OCCUPATIONS AND IN ALL OCCUPATIONS, ANTHRACITE COAL MINES, PENNSYLVANIA, 1919—Continued.

MOTORMEN, INSIDE WORK—19 MINES.

Earnings in half month.	Number of employees in each earnings group whose hours of actual work in a half-month pay-roll period were—																				Total.
	Under 5 hours.	5 and under 10 hours.	10 and under 15 hours.	15 and under 20 hours.	20 and under 25 hours.	25 and under 30 hours.	30 and under 40 hours.	40 and under 50 hours.	50 and under 60 hours.	60 and under 70 hours.	70 and under 80 hours.	80 and under 90 hours.	90 and under 100 hours.	100 and under 110 hours.	110 and under 120 hours.	120 and under 130 hours.	130 and under 150 hours.	150 and under 170 hours.	170 and under 190 hours.	190 hours and over.	
\$10 and under \$15.....					2																2
\$15 and under \$20.....						1	2														3
\$20 and under \$25.....							2	2													4
\$30 and under \$35.....									2	1											3
\$35 and under \$40.....										1	1										2
\$40 and under \$45.....											2	2									4
\$45 and under \$50.....												4									4
\$50 and under \$60.....													5	4	2						11
\$60 and under \$70.....						1	1						1	1	29	23	2				56
\$70 and under \$80.....													1	1		27	49	1			79
\$80 and under \$90.....																	16	25	9		41
\$90 and under \$100.....																		22	5		31
\$100 and under \$110.....																		1			6
\$110 and under \$120.....																				1	1
Total.....					2	1	4	2	2	2	3	6	7	6	31	50	67	49	14	1	247

TRACKMEN, INSIDE WORK—22 MINES.

\$5 and under \$10.....				2																	2
\$15 and under \$20.....							2														2
\$25 and under \$30.....								1													1
\$30 and under \$35.....									1												1
\$35 and under \$40.....										2	2	1									5
\$40 and under \$45.....											3	1									4
\$45 and under \$50.....													1								4
\$50 and under \$60.....												2	9			9	7				28
\$60 and under \$70.....														10	34	13	1				58

\$70 and under \$80.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	21	8	.....	.....	.....	.....	30
\$80 and under \$90.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	4	.....	.....	24	
\$90 and under \$100.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	1	.....	4	
Total.....	.....	.....	.....	2	.....	.....	2	1	1	2	5	6	10	19	43	35	29	7	1	.....	163

CAGERS, OUTSIDE WORK—22 MINES.

\$20 and under \$25.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
\$25 and under \$30.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
\$35 and under \$40.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
\$40 and under \$45.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
\$45 and under \$50.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	2	.....	.....	.....	.....	.....	.....	9
\$50 and under \$60.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32	21	2	.....	.....	.....	.....	.....	55
\$60 and under \$70.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	12	2	.....	.....	1	.....	19
\$70 and under \$80.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	9	7	.....	.....	18	
\$80 and under \$90.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	5	.....	2	9	
\$90 and under \$100.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	3	
Total.....	.....	.....	.....	.....	.....	.....	.....	1	2	.....	1	3	6	34	26	15	13	12	6	.....	119

JIG RUNNERS, OUTSIDE WORK—18 MINES.

Under \$5.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
\$5 and under \$10.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
\$10 and under \$15.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
\$15 and under \$20.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
\$20 and under \$25.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
\$30 and under \$35.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	3	.....	.....	.....	.....	.....	.....	.....	5
\$35 and under \$40.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	7	1	.....	.....	.....	.....	.....	.....	10
\$40 and under \$45.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	3	1	.....	.....	.....	.....	.....	.....	.....	5
\$45 and under \$50.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	4	.....	.....	.....	.....	.....	6
\$50 and under \$60.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	3	8	1	2	1	.....	.....	.....	16
\$60 and under \$70.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	3	.....	.....	.....	.....	14
\$70 and under \$80.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	8	4	.....	.....	.....	13
\$80 and under \$90.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	3	1	.....	.....	6
Total.....	1	.....	1	.....	.....	1	.....	2	.....	1	1	1	9	14	10	16	15	8	1	.....	81

TABLE L.—NUMBER OF EMPLOYEES WORKING EACH CLASSIFIED NUMBER OF ACTUAL HOURS AND EARNING EACH CLASSIFIED AMOUNT IN A HALF-MONTH PAY-ROLL PERIOD, IN SPECIFIED OCCUPATIONS AND IN ALL OCCUPATIONS, ANTHRACITE COAL MINES, PENNSYLVANIA, 1919—Continued.

DUMPERS, OUTSIDE WORK—19 MINES.

Earnings in half month.	Number of employees in each earnings group whose hours of actual work in a half-month pay-roll period were—																				Total.
	Under 5 hours.	5 and under 10 hours.	10 and under 15 hours.	15 and under 20 hours.	20 and under 25 hours.	25 and under 30 hours.	30 and under 40 hours.	40 and under 50 hours.	50 and under 60 hours.	60 and under 70 hours.	70 and under 80 hours.	80 and under 90 hours.	90 and under 100 hours.	100 and under 110 hours.	110 and under 120 hours.	120 and under 130 hours.	130 and under 150 hours.	150 and under 170 hours.	170 and under 190 hours.	190 hours and over.	
Under \$5.....		2																			2
\$5 and under \$10.....				1																	1
\$10 and under \$15.....						2	2														4
\$15 and under \$20.....							2														2
\$20 and under \$25.....									2												2
\$25 and under \$30.....									1	1											2
\$30 and under \$35.....											1										1
\$35 and under \$40.....												3									3
\$40 and under \$45.....													8	2							10
\$45 and under \$50.....														8	1						9
\$50 and under \$60.....															11	11	6				28
\$60 and under \$70.....																	14	4			18
\$70 and under \$80.....																		4	1		5
\$80 and under \$90.....																			1		1
Total.....		2		1		2	4		3	1	1	3	8	10	12	11	20	8	2		88

LABORERS, OUTSIDE WORK—22 MINES.

Under \$5.....	6	4																			10
\$5 and under \$10.....		4	13	4	1																22
\$10 and under \$15.....				7	3																19
\$15 and under \$20.....						8	1														18
\$20 and under \$25.....							11	13		2											27
\$25 and under \$30.....								7	10					3							21
\$30 and under \$35.....									7	25			13	2							60
\$35 and under \$40.....										1	37	4	17	1	3	1					64
\$40 and under \$45.....									1			57	17	1	4		1				86
\$45 and under \$50.....												1	78	88		3	4				174
\$50 and under \$60.....												1	4	140	121	71	4		5		346

\$60 and under \$70.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	4	102	59	1	13	180	
\$70 and under \$80.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	69	45	16	136	
\$80 and under \$90.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	25	12	41	
\$90 and under \$100.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	5	6	
\$100 and under \$110.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	
Total.....		6	8	13	11	4	18	20	20	19	28	47	70	113	249	133	187	141	72	52	1,211

PLATEMEN, OUTSIDE WORK—21 MINES.

Under \$5.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	
\$5 and under \$10.....	.....	.....	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	
\$10 and under \$15.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	
\$15 and under \$20.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	
\$20 and under \$25.....	.....	.....	.....	.....	.....	.....	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	
\$25 and under \$30.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	
\$30 and under \$35.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	5	
\$35 and under \$40.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	3	
\$40 and under \$45.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9	
\$45 and under \$50.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....	.....	.....	.....	.....	16	
\$50 and under \$60.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	.....	38	
\$60 and under \$70.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19	.....	.....	.....	.....	44	
\$70 and under \$80.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	.....	.....	.....	23	
\$80 and under \$90.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	.....	.....	14	
\$90 and under \$100.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	.....	9	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	
Total.....		4	1	2	1		2	1	2	8	1	4	6	22	44	22	26	18	7	9	180

SLATERS (BOYS), OUTSIDE WORK—21 MINES.

Under \$5.....		3	1	4																8
\$5 and under \$10.....					3	3	5					1								11
\$10 and under \$15.....							1	12												17
\$15 and under \$20.....								1	3	13	4									21
\$20 and under \$25.....										2	16	36	10							64
\$25 and under \$30.....											1	30	69	37	22					159
\$30 and under \$35.....													8	44	129	12				193
\$35 and under \$40.....												1		5	34	14	7			61
\$40 and under \$45.....													1	8		1	5	1		16
\$45 and under \$50.....														4	6				1	13
\$50 and under \$60.....															6	2	4	1		13
\$60 and under \$70.....																	2	1	1	3
\$70 and under \$80.....																		1		1
Total.....		3	1	4	3	3	6	13	6	15	21	68	88	98	197	29	18	6	1	580

\$20 and under \$25.....	.....	.....	.....	.....	.....	3	23	22	6	19	36	10	.....	.....	.....	.....	.....	.....	119		
\$25 and under \$30.....	.....	.....	.....	.....	.....	.....	3	21	24	1	31	72	37	22	.....	.....	.....	.....	211		
\$30 and under \$35.....	.....	.....	.....	.....	.....	.....	.....	2	15	34	9	12	61	135	13	.....	.....	.....	281		
\$35 and under \$40.....	.....	.....	.....	.....	.....	.....	.....	1	5	11	68	5	8	67	18	8	.....	.....	191		
\$40 and under \$45.....	.....	.....	.....	.....	.....	.....	.....	.....	1	3	13	99	42	2	10	11	2	.....	183		
\$45 and under \$50.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	10	14	169	148	.....	13	6	1	367		
\$50 and under \$60.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	6	35	342	280	122	8	1	804		
\$60 and under \$70.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	51	137	322	102	4	639		
\$70 and under \$80.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	62	113	195	82	30		
\$80 and under \$90.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28	38	84	79	31		
\$90 and under \$100.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	31	48	42		
\$100 and under \$110.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17	15		
\$110 and under \$120.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	12		
\$120 and under \$130.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9		
\$130 and under \$140.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2		
Total.....	2	30	14	29	21	14	45	58	52	65	78	173	218	359	768	548	629	428	236	163	3,930

ALL OCCUPATIONS, INSIDE AND OUTSIDE WORK—22 MINES.

Under \$5.....	10	143	15	10	2		2													182	
\$5 and under \$10.....		39	44	139	23	11	11	2												269	
\$10 and under \$15.....		5	10	47	121	34	46	24	4			2								293	
\$15 and under \$20.....				10	33	24	148	45	11	16	5		1							293	
\$20 and under \$25.....		3	1	8	6	4	58	139	32	20	30	44	13	4		3				365	
\$25 and under \$30.....				2	2	6	21	77	98	39	7	44	79	48	25					448	
\$30 and under \$35.....					2		11	20	75	65	50	24	20	100	205	14				586	
\$35 and under \$40.....					3	4	8	16	54	83	101	96	14	18	125	39	8			569	
\$40 and under \$45.....			1	1			4	12	19	59	94	128	125	53	11	22	20	2		551	
\$45 and under \$50.....						1	2	6	13	35	65	160	172	218	171	1	17	9	1	871	
\$50 and under \$60.....			1		1	1	1	6	23	44	100	194	327	597	1,136	363	129	14	1	2,944	
\$60 and under \$70.....						1	2	5	5	30	56	124	241	387	902	644	489	110	10	3,035	
\$70 and under \$80.....								5	14	45	107	174	294	429	324	492	258	86	88	2,321	
\$80 and under \$90.....					1			2	3	9	32	87	160	232	229	118	174	219	89	1,407	
\$90 and under \$100.....									2	4	28	66	126	172	157	36	47	96	95	873	
\$100 and under \$110.....									2	7	13	25	80	142	109	23	11	6	33	473	
\$110 and under \$120.....									1	4	9	27	49	61	78	24	13	2	6	291	
\$120 and under \$130.....									1	2	5	13	34	48	27	20	4		1	165	
\$130 and under \$140.....									1	1	4	10	30	24	18	7	3			100	
\$140 and under \$150.....									1		2	4	7	14	14	2	2	4	1	51	
\$150 and over.....										1	2	5	19	19	11	9	13	4	1	88	
Total.....	10	190	72	217	194	86	314	359	350	433	648	1,160	1,670	2,432	3,647	1,649	1,422	724	323	275	16,175

TABLE M.—NUMBER OF EMPLOYEES WORKING EACH CLASSIFIED NUMBER OF ACTUAL HOURS AND EARNING EACH CLASSIFIED AMOUNT IN A HALF-MONTH PAY-ROLL PERIOD, IN SPECIFIED OCCUPATIONS AND IN ALL OCCUPATIONS, BITUMINOUS COAL MINES, 1919

[Although data were secured in 1919 for inside workers in 12 occupations, only 9 of those occupations, representing 90 per cent of the employees, are shown in this table. The other 3 occupations, representing only 10 per cent of the employees, are not shown here, but like data may be found for them in Tables F and K, which include all 12 occupations for inside workers, bituminous mines.]

Although data were secured in 1919 for outside workers in 5 occupations, only 1 occupation (laborers), representing 66 per cent of the employees, is shown in this table. The other 4 occupations, representing 34 per cent of the employees, are not shown here, but like data may be found for them in Tables F and K, which include all 5 occupations for outside workers, bituminous mines.]

BRATTICEMEN AND TIMBERMEN, INSIDE WORK—163 MINES, IN 18 STATES.

Earnings in half month.	Number of employees in each earnings group whose hours of actual work in a half-month pay-roll period were—																				Total.
	Under 5 hours.	5 and under 10 hours.	10 and under 15 hours.	15 and under 20 hours.	20 and under 25 hours.	25 and under 30 hours.	30 and under 40 hours.	40 and under 50 hours.	50 and under 60 hours.	60 and under 70 hours.	70 and under 80 hours.	80 and under 90 hours.	90 and under 100 hours.	100 and under 110 hours.	110 and under 120 hours.	120 and under 130 hours.	130 and under 150 hours.	150 and under 170 hours.	170 and under 190 hours.	190 hours and over.	
Under \$5.....	1	13																			14
\$5 and under \$10.....		5	3	1																	9
\$10 and under \$15.....				12	5	1	1														19
\$15 and under \$20.....					8	1	7	3													19
\$20 and under \$25.....							11	8	1												20
\$25 and under \$30.....								17	21	5	1	2									26
\$30 and under \$35.....								11	21	5	7	5									46
\$35 and under \$40.....									23	17	6	7			1						54
\$40 and under \$45.....									1	41	12	16	3								73
\$45 and under \$50.....											71	16	6	6	1						100
\$50 and under \$60.....											2	146	46	15	4	1	1				215
\$60 and under \$70.....												1	86	92	10	1	1	1			192
\$70 and under \$80.....												1	2	10	49	21	3	1			87
\$80 and under \$90.....														1		15	24				40
\$90 and under \$100.....															1	1	5	5			12
\$100 and under \$110.....																		2	2		4
\$110 and under \$120.....																			2		2
Total.....	1	18	3	13	13	2	19	39	47	65	99	194	143	124	66	39	34	9	4		932

CAGERS, INSIDE WORK—90 MINES, IN 14 STATES.

\$5 and under \$10.....	5	2	1																	7
\$10 and under \$15.....																				1
\$15 and under \$20.....						1														1
\$20 and under \$25.....						1														1
\$25 and under \$30.....							6													6
\$30 and under \$35.....							6	5												11
\$35 and under \$40.....								23	5		2									30
\$40 and under \$45.....									17	7	1									25
\$45 and under \$50.....									1	19	3									23
\$50 and under \$60.....											23	19								42
\$60 and under \$70.....											1	7	25	2	1	1				37
\$70 and under \$80.....													6	5	15	1				26
\$80 and under \$90.....														1	2	4				7
\$90 and under \$100.....																1	1			2
\$100 and under \$110.....																		1		1
\$110 and under \$120.....																				
\$120 and under \$130.....																				
Total.....	5	2	1			2	12	28	23	26	30	26	31	8	18	6	1		1	220

LABORERS, INSIDE WORK—164 MINES, IN 18 STATES.

Under \$5.....	33	62	3	33	12															98
\$5 and under \$10.....		22	7	27	25	3	18	1												74
\$10 and under \$15.....					39	11	32	29	4											115
\$15 and under \$20.....							29	36	22	4										91
\$20 and under \$25.....							1	78	22	13	1									137
\$25 and under \$30.....								26	76	31	23	23	3							182
\$30 and under \$35.....									34	87	22	20	19	2						184
\$35 and under \$40.....										82	72	19	12	16	3					204
\$40 and under \$45.....											113	92	8	9	4	8				234
\$45 and under \$50.....											6	214	133	31	12	7				403
\$50 and under \$60.....											1	1	3	88	160	53	5	5		316
\$60 and under \$70.....														2	4	37	68	20	1	133
\$70 and under \$80.....																	6	21	9	37
\$80 and under \$90.....																		3	1	25
\$90 and under \$100.....																		19	3	8
\$100 and under \$110.....																		6	2	4
\$110 and under \$120.....																		2	2	
Total.....	33	84	10	60	76	14	80	170	158	227	250	372	265	222	109	94	49	37	9	2,319

TABLE M.—NUMBER OF EMPLOYEES WORKING EACH CLASSIFIED NUMBER OF ACTUAL HOURS AND EARNING EACH CLASSIFIED AMOUNT IN A HALF-MONTH PAY-ROLL PERIOD, IN SPECIFIED OCCUPATIONS AND IN ALL OCCUPATIONS, BITUMINOUS COAL MINES, 1919—Continued.

LOADERS, INSIDE WORK—128 MINES, IN 16 STATES.

Earnings in half month.	Number of employees in each earnings group whose hours of actual work in a half-month pay-roll period were—																				Total.
	Under 5 hours.	5 and under 10 hours.	10 and under 15 hours.	15 and under 20 hours.	20 and under 25 hours.	25 and under 30 hours.	30 and under 40 hours.	40 and under 50 hours.	50 and under 60 hours.	60 and under 70 hours.	70 and under 80 hours.	80 and under 90 hours.	90 and under 100 hours.	100 and under 110 hours.	110 and under 120 hours.	120 and under 130 hours.	130 and under 150 hours.	150 and under 170 hours.	170 and under 190 hours.	190 hours and over.	
Under \$5.....	12	80	23	11	2	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	130
\$5 and under \$10.....	6	63	64	92	59	19	14	2	—	—	—	—	—	—	—	—	—	—	—	—	319
\$10 and under \$15.....	—	10	19	66	98	33	73	41	10	1	—	—	—	—	—	—	—	—	—	—	352
\$15 and under \$20.....	—	2	12	25	72	46	130	102	56	12	1	—	—	—	—	—	—	—	—	—	459
\$20 and under \$25.....	—	1	6	11	27	27	151	199	141	38	17	3	2	—	—	—	—	—	—	—	624
\$25 and under \$30.....	—	—	—	7	22	18	118	295	143	100	45	16	5	1	—	—	—	—	—	—	770
\$30 and under \$35.....	—	—	—	3	9	11	83	270	263	161	54	46	19	3	1	—	—	—	—	—	924
\$35 and under \$40.....	—	—	—	2	—	6	45	207	271	254	138	58	22	3	2	1	—	—	—	—	1,099
\$40 and under \$45.....	—	—	—	3	6	6	39	174	278	316	206	86	33	10	2	1	—	—	—	—	1,157
\$45 and under \$50.....	—	—	—	—	1	4	14	108	240	331	231	125	40	15	2	1	1	—	—	—	1,113
\$50 and under \$60.....	—	—	—	—	—	3	23	111	503	508	470	331	129	70	11	6	5	—	—	—	2,170
\$60 and under \$70.....	—	—	—	—	—	—	6	38	180	340	396	350	215	144	18	13	13	—	—	—	1,713
\$70 and under \$80.....	—	—	—	—	—	—	1	15	59	164	239	245	233	127	29	19	29	—	—	—	1,754
\$80 and under \$90.....	—	—	—	—	—	—	1	3	26	75	122	148	155	146	18	11	28	—	2	—	1,515
\$90 and under \$100.....	—	—	—	—	—	—	—	5	9	23	40	69	79	80	17	18	35	1	—	—	376
\$100 and under \$110.....	—	—	—	—	—	—	—	1	4	10	17	27	34	26	12	23	23	—	—	—	166
\$110 and under \$120.....	—	—	—	—	—	—	—	—	—	4	8	18	24	9	5	6	21	—	—	—	96
\$120 and under \$130.....	—	—	—	—	—	—	—	1	—	1	4	2	10	3	—	1	13	—	—	—	35
\$130 and under \$140.....	—	—	—	—	—	—	—	—	—	—	—	5	4	3	—	3	7	1	—	—	27
\$140 and under \$150.....	—	—	—	—	—	—	—	—	—	—	—	1	—	1	—	3	3	—	—	—	10
\$150 and over.....	—	—	—	—	—	—	—	—	—	—	—	3	—	—	1	2	—	—	—	—	6
Total.....	18	156	124	217	296	174	699	1,571	2,184	2,338	1,989	1,536	1,005	640	122	98	173	3	2	—	13,345

MINERS, HAND, INSIDE WORK—143 MINES, IN 18 STATES.

[illegible]

\$20 and under \$25.....	4	17	29	28	103	198	160	56	35	1	2							633
\$25 and under \$30.....	3	3	17	22	100	184	309	105	66	10	2							821
\$30 and under \$35.....	1	2	11	9	77	223	342	174	77	16	3	1	1					937
\$35 and under \$40.....	1	3	1	10	60	174	371	254	124	26	11	4						1,039
\$40 and under \$45.....		1	4	5	30	151	304	299	170	55	11	7						1,037
\$45 and under \$50.....			1	7	37	121	268	294	206	67	17	4	1					1,024
\$50 and under \$60.....				2	25	138	376	490	433	186	57	19						1,726
\$60 and under \$70.....	1	1		2	12	41	175	360	350	196	71	24	4	2	1			1,240
\$70 and under \$80.....						22	62	181	252	174	58	44	6	1	3			803
\$80 and under \$90.....					2	9	22	75	126	91	61	44	9	2	2			443
\$90 and under \$100.....						2	8	31	59	49	32	28	6	3	2			220
\$100 and under \$110.....							2	15	29	37	18	16	5	3	2			127
\$110 and under \$120.....						1		16	12	14	13	7	2	1	1			67
\$120 and under \$130.....								3	8	6	4	4	1	4				30
\$130 and under \$140.....							1			4	2	3		1				16
\$140 and under \$150.....									1	1	1	4	2		2			11
\$150 and over.....										1	1	1			1			4
Total.....	21	128	97	158	224	174	682	1,450	2,504	2,385	1,975	937	364	210	37	17	16	11,379

MINERS, MACHINE, INSIDE WORK—120 MINES, IN 16 STATES.

Under \$5.....	7	5		3	1														12
\$5 and under \$10.....		11		7	3				2	2									22
\$10 and under \$15.....			3	9	3	2													17
\$15 and under \$20.....				1	11	3													26
\$20 and under \$25.....			1	1	1	4	15	7		4	1								34
\$25 and under \$30.....		1		2	3	2	4	26	9	9		2	1						59
\$30 and under \$35.....						3	10	21	7	8	4			2					55
\$35 and under \$40.....					1	2		18	26	18	3								68
\$40 and under \$45.....						1	5	23	6	40	9	3		2					89
\$45 and under \$50.....						3	20	11	17	69	6	4	2						133
\$50 and under \$60.....					2	1	23	48	33	40	86	19	14	2					268
\$60 and under \$70.....				1		4	9	41	53	18	17	43	34	11	2				283
\$70 and under \$80.....							7	21	33	16	18	20	26	14	4	3			162
\$80 and under \$90.....							1	4	16	20	11	15	24	33	5	5	5		139
\$90 and under \$100.....								5	11	10	21	22	26	25	5	3	5		134
\$100 and under \$110.....						2		12	11	5	16	32	11	5	3	4			101
\$110 and under \$120.....								7	11	6	12	16	9	8	3	1			73
\$120 and under \$130.....									3		4	7	11	5			2		34
\$130 and under \$140.....										1	4	2	11	2			1		23
\$140 and under \$150.....												6	2	1	1	3			13
\$150 and over.....										1		2	3	5	2	7	4	1	26
Total.....	7	17	11	16	21	20	53	163	220	271	211	208	207	179	58	22	30	6	1,721

TABLE M.—NUMBER OF EMPLOYEES WORKING EACH CLASSIFIED NUMBER OF ACTUAL HOURS AND EARNING EACH CLASSIFIED AMOUNT IN A HALF-MONTH PAY-ROLL PERIOD, IN SPECIFIED OCCUPATIONS AND IN ALL OCCUPATIONS, BITUMINOUS COAL MINES, 1919—Continued.

MOTORMEN, INSIDE WORK—154 MINES, IN 17 STATES.

Earnings in half month.	Number of employees in each earnings group whose hours of actual work in a half-month pay-roll period were—																				Total.
	Under 5 hours.	5 and under 10 hours.	10 and under 15 hours.	15 and under 20 hours.	20 and under 25 hours.	25 and under 30 hours.	30 and under 40 hours.	40 and under 50 hours.	50 and under 60 hours.	60 and under 70 hours.	70 and under 80 hours.	80 and under 90 hours.	90 and under 100 hours.	100 and under 110 hours.	110 and under 120 hours.	120 and under 130 hours.	130 and under 150 hours.	150 and under 170 hours.	170 and under 190 hours.	190 hours and over.	
Under \$5.....	2	5																			7
\$5 and under \$10.....		7	3	5																	15
\$10 and under \$15.....				8	6	5															19
\$15 and under \$20.....					3	2	5														10
\$20 and under \$25.....						1	12	12													26
\$25 and under \$30.....								17	12	1											31
\$30 and under \$35.....								10	14	7	3	1									35
\$35 and under \$40.....									24	4	13	1									43
\$40 and under \$45.....									2	35	8	32	2								79
\$45 and under \$50.....										19	58	16	23	4							120
\$50 and under \$60.....											28	78	30	36	7						179
\$60 and under \$70.....												9	64	67	12	6					164
\$70 and under \$80.....													6	13	38	17	2	1			77
\$80 and under \$90.....													1		5	20	22	5	1		51
\$90 and under \$100.....															5		19			1	25
\$100 and under \$110.....																		11			11
\$110 and under \$120.....																		1	1		2
Total.....	2	12	3	13	9	8	17	39	53	66	111	137	127	120	62	43	49	20	2	1	894

TRACKMEN, INSIDE WORK—187 MINES, IN 18 STATES.

Under \$5.....	1	14																			15
\$5 and under \$10....		12	4	15																	31
\$10 and under \$15....				5	7	3	2														17
\$15 and under \$20....					6	5	14	4													29
\$20 and under \$25....							14	21	4												40
\$25 and under \$30....								19	5	7	2										33
\$30 and under \$35....								17	15	15	5	4									61
\$35 and under \$40....								20	33	21	15	13	4								86
\$40 and under \$45....									2	60	13	19	4	1							99
\$45 and under \$50....										2	84	7		3							136
\$50 and under \$60....											7	145	49	21	3						237
\$60 and under \$70....												3	65	98	11	4		1			194
\$70 and under \$80....														12	36	33	3	2	1	1	87

\$80 and under \$90.....																12	16	3			31
\$90 and under \$100.....																	3	10	1		14
\$100 and under \$110.....																		4	3		7
\$110 and under \$120.....																			2		2
\$120 and under \$130.....																			3		3
Total.....	1	26	4	20	13	8	30	64	61	106	126	204	138	143	70	54	24	20	7	3	1,122

TRAPPERS (BOYS), INSIDE WORK—103 MINES, IN 17 STATES.

Under \$5.....	2	5	1	2																	10
\$5 and under \$10.....				10	5	1	2														18
\$10 and under \$15.....				1		7	9	24	16	1	1										59
\$15 and under \$20.....							1	19	52	26	12	12	2								124
\$20 and under \$25.....								1	5	48	26	10	1								91
\$25 and under \$30.....									3	3	13	48	7								74
\$30 and under \$35.....									1	12	4	12	34	50							113
\$35 and under \$40.....									1			2	7	5	2						17
\$40 and under \$45.....													4	4		2					10
\$45 and under \$50.....											2	1	1	2	1		3				10
\$50 and under \$60.....												1		1	3	2	1	1			9
\$60 and under \$70.....																	1				1
Total.....	2	5	1	13	5	8	12	44	78	90	58	86	56	62	6	4	5	1			536

ALL OCCUPATIONS, INSIDE WORK—201 MINES, IN 18 STATES.

Under \$5.....	79	275	47	25	4	2	2														434
\$5 and under \$10.....	8	218	147	243	120	40	36	8													820
\$10 and under \$15.....	1	24	39	238	244	96	223	111	54	11	4	1									1,046
\$15 and under \$20.....		4	22	44	242	123	342	313	190	63	33	16	2								1,394
\$20 and under \$25.....		1	11	29	57	60	405	513	364	156	80	14	5			1					1,696
\$25 and under \$30.....		1	3	12	42	42	223	726	522	290	146	81	15	1							2,104
\$30 and under \$35.....			1	5	20	23	170	672	801	440	242	139	59	55	4	1					2,632
\$35 and under \$40.....			1	5	2	18	105	399	1,001	739	353	202	84	15	5		1				2,930
\$40 and under \$45.....				1	10	12	74	348	596	1,172	552	281	109	53	5	3	1				3,217
\$45 and under \$50.....					2	12	54	249	519	677	1,201	402	154	56	20	10	5				3,361
\$50 and under \$60.....						7	49	272	927	1,032	1,006	1,598	613	239	65	28	11	1			5,848
\$60 and under \$70.....				1	2	2	22	88	396	754	765	585	842	866	170	44	35	3			4,575
\$70 and under \$80.....								4	142	378	507	439	326	269	313	262	73	8	2	1	2,765
\$80 and under \$90.....							4	16	64	170	259	254	241	225	43	101	189	16	6		1,589
\$90 and under \$100.....							12	28	64	120	140	137	133	30	26	79	62	5	1		838
\$100 and under \$110.....						2		18	36	51	80	85	52	22	18	31	29	15	1		441
\$110 and under \$120.....							1	7	31	26	44	53	25	12	5	10	23	4	14	3	256
\$120 and under \$130.....								4	4	16	15	25	12	2	5	14	2			5	104
\$130 and under \$140.....								1	1	8	11	8	17	6	4	9	1			2	68
\$140 and under \$150.....										2	3	8	6	3	4	8					34
\$150 and over.....										1		6	4	6	3	3	8	4	1	1	37
Total.....	88	523	277	603	745	437	1,713	3,773	5,634	6,019	5,371	4,311	2,770	2,030	706	520	487	130	43	15	36,189

TABLE M.—NUMBER OF EMPLOYEES WORKING EACH CLASSIFIED NUMBER OF ACTUAL HOURS AND EARNING EACH CLASSIFIED AMOUNT IN A HALF-MONTH PAY-ROLL PERIOD IN SPECIFIED OCCUPATIONS AND IN ALL OCCUPATIONS, BITUMINOUS COAL MINES, 1919—Concluded.

LABORERS, OUTSIDE WORK—198 MINES, IN 18 STATES.

Earnings in half month.	Number of employees in each earnings group whose hours of actual work in a half-month pay-roll period were—																				Total.
	Under 5 hours.	5 and under 10 hours.	10 and under 15 hours.	15 and under 20 hours.	20 and under 25 hours.	25 and under 30 hours.	30 and under 40 hours.	40 and under 50 hours.	50 and under 60 hours.	60 and under 70 hours.	70 and under 80 hours.	80 and under 90 hours.	90 and under 100 hours.	100 and under 110 hours.	110 and under 120 hours.	120 and under 130 hours.	130 and under 150 hours.	150 and under 170 hours.	170 and under 190 hours.	190 hours and over.	
Under \$5.....	5	43	1	1	1																51
\$5 and under \$10.....		1	10	47	12	2	1														73
\$10 and under \$15.....				3	28	16	23	10													80
\$15 and under \$20.....						2	51	21	30	9	1										114
\$20 and under \$25.....							17	53	29	23	17										139
\$25 and under \$30.....								36	47	32	42	22	1								180
\$30 and under \$35.....									53	89	55	52	15	2							266
\$35 and under \$40.....									1	66	157	84	43	10	3						354
\$40 and under \$45.....										8	96	140	58	25	6	6					339
\$45 and under \$50.....											16	135	111	52	10	1	4				329
\$50 and under \$60.....												41	157	216	96	25	8	6	1		551
\$60 and under \$70.....													3	35	111	72	33	8	1		283
\$70 and under \$80.....															4	25	39	12			80
\$80 and under \$90.....																1	9	7	7	3	27
\$90 and under \$100.....																		4	2	2	8
\$100 and under \$110.....																			2	3	5
\$110 and under \$120.....																				1	1
Total.....	5	44	11	51	41	20	92	120	160	217	385	474	388	340	230	130	93	37	13	9	2,860

ALL OCCUPATIONS, OUTSIDE WORK—201 MINES, IN 18 STATES.

Under \$5.....	6	55	1	1	1																64
\$5 and under \$10.....		6	13	55	13	2	2														91
\$10 and under \$15.....				5	38	18	26	10	1												98
\$15 and under \$20.....					1	3	58	24	30	9	1										126
\$20 and under \$25.....							22	58	31	24	17										152
\$25 and under \$30.....							1	49	51	36	47	22	1								207

\$35 and under \$40										4	22	1									27
\$40 and under \$45											5	26	1								32
\$45 and under \$50												8	30	4							42
\$50 and under \$60													18	90	118	6					232
\$60 and under \$70														4	55	84	36				179
\$70 and under \$80																8	67	11			86
\$80 and under \$90																	6	30	4		40
\$90 and under \$100																		8	9		17
\$100 and under \$110																				1	1
Total	1	10	2	11	9	4	10	12	12	13	27	35	49	98	173	98	109	49	13	1	736

LABORERS, CONTRACT MINERS', INSIDE WORK—14 MINES.

Under \$5	1	39		1																	41
\$5 and under \$10		15	8	6	2																32
\$10 and under \$15		1	13																		40
\$15 and under \$20			1		11	3	19	3	1	3											39
\$20 and under \$25					2	3	10	10	1	3											31
\$25 and under \$30					1	1	4	18	7	2	4										37
\$30 and under \$35				1				7	10	4	7										34
\$35 and under \$40					1		3	5	7	7	4	3	1								34
\$40 and under \$45								1	9	17	17	6	3	1							54
\$45 and under \$50																					64
\$50 and under \$60								1	2	13	15	15	9	7	2						166
\$60 and under \$70									6	2	28	38	38	36	14	3					263
\$70 and under \$80									1	3	14	24	62	83	66	10					211
\$80 and under \$90											6	13	42	64	70	12	3				86
\$90 and under \$100											1	10	30	29	10	3	3				30
\$100 and under \$110												2	9	12	5	2					9
\$110 and under \$120													4	3	1	1					9
\$120 and under \$130												1	1	5			1	1			10
\$130 and under \$140														8	1	1					1
Total	1	55	10	21	36	9	43	46	44	53	96	116	202	249	169	32	8	1			1,191

\$35 and under \$40.....								6	8	3	1								18
\$40 and under \$45.....									10	14	1								25
\$45 and under \$50.....									2	10	10	1	1						24
\$50 and under \$60.....										1	21		3						37
\$60 and under \$70.....										1		20	60	7	1				89
\$70 and under \$80.....											2		12	156	11	1			182
\$80 and under \$90.....												1		2	18	12			33
\$90 and under \$100.....													2	1			3		12
\$100 and under \$110.....										1		1	3			1	1		7
\$110 and under \$120.....												1	2				1		4
\$120 and under \$130.....													1	1					2
\$130 and under \$140.....												1							1
\$140 and under \$150.....																			1
\$150 and over.....														1					1
Total.....			1	5	4	6	12	10	12	21	30	35	37	84	168	30	20	5	480

MINERS, CONTRACT, INSIDE WORK—16 MINES.

Under \$5.....	3		1																4
\$5 and under \$10.....	5		3																11
\$10 and under \$15.....		1	1																13
\$15 and under \$20.....	1	1	2				12	2	2										18
\$20 and under \$25.....			2				4	9	8	3	3								26
\$25 and under \$30.....							2	5	9	5	2								33
\$30 and under \$35.....		1					2	2	2	6	12	1	2	1	2				39
\$35 and under \$40.....			2				1	9	8	10	15	6	1	2	1				42
\$40 and under \$45.....							2	7	7	13	11	9	4	4	2				56
\$45 and under \$50.....								5	9	15	16	15	6	8		2			62
\$50 and under \$60.....																9	2		76
\$60 and under \$70.....							2	4	13	37	46	27	39	36		2			215
\$70 and under \$80.....								6	8	27	58	52	67	94	50	10			375
\$80 and under \$90.....								3	1	7	8	25	48	69	127	121	87	13	375
\$90 and under \$100.....																	3		509
\$100 and under \$110.....										5	2	16	64	92	143	55	5	5	454
\$110 and under \$120.....											3	21	38	73	106	45	14	1	382
\$120 and under \$130.....												3	9	14	61	70	41	12	302
\$130 and under \$140.....													4	14	35	66	16	3	211
\$140 and under \$150.....												1	2	5	7	34	34	12	139
\$150 and over.....														5	8	14	19	2	98
Total.....		9	3	11	25	14	42	59	82	163	302	402	693	878	413	70	16	1	3,188

TABLE N.—NUMBER OF EMPLOYEES WORKING EACH CLASSIFIED NUMBER OF ACTUAL HOURS AND EARNING EACH CLASSIFIED AMOUNT IN A HALF-MONTH PAY-ROLL PERIOD, IN SPECIFIED OCCUPATIONS AND IN ALL OCCUPATIONS, ANTHRACITE COAL MINES, PENNSYLVANIA, 1920—Continued.

ALL OCCUPATIONS, INSIDE WORK—16 MINES.

Earnings in half month.	Number of employees in each earnings group whose hours of actual work in a half-month pay-roll period were—																				Total.
	Under 5 hours.	5 and under 10 hours.	10 and under 15 hours.	15 and under 20 hours.	20 and under 25 hours.	25 and under 30 hours.	30 and under 40 hours.	40 and under 50 hours.	50 and under 60 hours.	60 and under 70 hours.	70 and under 80 hours.	80 and under 90 hours.	90 and under 100 hours.	100 and under 110 hours.	110 and under 120 hours.	120 and under 130 hours.	130 and under 150 hours.	150 and under 170 hours.	170 and under 190 hours.	190 hours and over.	
Under \$5.....	7	79		2																	88
\$5 and under \$10.....		23	20	44	11	1	1														100
\$10 and under \$15.....		1	2	20	49	19	8	1													100
\$15 and under \$20.....		1	2	2	15	11	70	6	6	4											117
\$20 and under \$25.....				2	4	7	33	51	6	6	7	8									124
\$25 and under \$30.....					3	6	16	50	43	7	11	6	6	13	1						163
\$30 and under \$35.....			1	1	5	1	4	11	48	42	24	3	9	27	41						217
\$35 and under \$40.....				2	2			14	22	44	72	19	4	7	16	7					213
\$40 and under \$45.....					2		2	8	16	41	68	107	12	5	2	8	3				274
\$45 and under \$50.....								6	11	30	42	96	95	48	3	2	3				336
\$50 and under \$60.....						2		5	19	39	75	96	179	437	375	33	3	2			1,265
\$60 and under \$70.....							3	6	9	30	73	76	155	301	456	342	133	2	3	8	1,597
\$70 and under \$80.....							1	7	8	26	54	84	169	328	456	342	295	43		36	1,400
\$80 and under \$90.....								1	4	9	26	73	146	176	92	29	96	133	12		805
\$90 and under \$100.....									5	2	16	66	101	157	61	6	7	64	46		533
\$100 and under \$110.....										3	22	38	78	112	47	15	2	3	23		350
\$110 and under \$120.....										3	9	15	63	77	41	12	2	2		4	229
\$120 and under \$130.....											4	14	35	75	18	4	1				155
\$130 and under \$140.....									1	2	5	7	34	34	12	2	2				99
\$140 and under \$150.....											5	8	15	19	9	2	1				59
\$150 and over.....									2	1	8	13	27	26	5		2				84
Total.....	7	104	25	73	91	47	142	166	200	289	517	734	1,128	1,712	1,507	613	550	249	86	68	8,308

LABORERS, OUTSIDE WORK—16 MINES.

Under \$5.....		1		1																	6
\$5 and under \$10.....			4	1	1																3
\$10 and under \$15.....					4	5	4														13
\$15 and under \$20.....								6	1												7
\$20 and under \$25.....								4													11
\$25 and under \$30.....									4						2						15
\$30 and under \$35.....										3	14	1	2	5	2						27
\$35 and under \$40.....											2	36	2	3	12						55

\$40 and under \$45.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	26	14	.....	2	1	.....	.....	46		
\$45 and under \$50.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	72	78	.....	.....	.....	.....	150		
\$50 and under \$60.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	46	81	54	1	.....	189		
\$60 and under \$70.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	71	33	.....	105		
\$70 and under \$80.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	47	20	69		
\$80 and under \$90.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8	13		
\$90 and under \$109.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	21		
Total.....		1	5	2	5	5	4	10	12	11	16	41	30	101	140	84	127	81	28	15	718

SLATERS (BOYS), OUTSIDE WORK—15 MINES.

Under \$5.....	.....	2	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
\$5 and under \$10.....	.....	.....	.....	1	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5
\$10 and under \$15.....	.....	.....	.....	.....	.....	.....	2	7	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10
\$15 and under \$20.....	.....	.....	.....	.....	.....	.....	.....	.....	7	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	14
\$20 and under \$25.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	17	22	.....	.....	.....	.....	.....	.....	39
\$25 and under \$30.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10	26	12	4	.....	.....	.....	52
\$30 and under \$35.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	49	85	6	1	.....	146
\$35 and under \$40.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	37	7	5	.....	51
\$40 and under \$45.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	1	10
\$45 and under \$50.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	4	.....	9
\$50 and under \$60.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	1	4
\$60 and under \$70.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Total.....	.....	2	1	2	2	2	2	7	8	6	18	33	31	66	134	17	11	3	.....	345

ALL OCCUPATIONS, OUTSIDE WORK—16 MINES.

Under \$5.....	.....	7	7	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	
\$5 and under \$10.....	.....	.....	1	4	5	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	
\$10 and under \$15.....	.....	.....	.....	.....	7	8	6	7	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29	
\$15 and under \$20.....	.....	.....	.....	.....	.....	.....	6	9	9	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	31	
\$20 and under \$25.....	.....	.....	.....	.....	.....	.....	.....	7	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	53	
\$25 and under \$30.....	.....	.....	.....	.....	.....	.....	.....	2	7	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	53	
\$30 and under \$35.....	.....	.....	.....	.....	.....	.....	.....	1	1	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	206	
\$35 and under \$40.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	141	
\$40 and under \$45.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	97	
\$45 and under \$50.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	313	
\$50 and under \$60.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	487	
\$60 and under \$70.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	472	
\$70 and under \$80.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	281	
\$80 and under \$90.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	180	
\$90 and under \$100.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	76	
\$100 and under \$110.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	28	
\$110 and under \$120.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	
\$120 and under \$130.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	
Total.....		7	8	6	12	10	12	26	26	26	53	114	106	286	502	389	433	293	122	82	2,513

TABLE N.—NUMBER OF EMPLOYEES WORKING EACH CLASSIFIED NUMBER OF ACTUAL HOURS AND EARNING EACH CLASSIFIED AMOUNT IN A HALF-MONTH PAY-ROLL PERIOD, IN SPECIFIED OCCUPATIONS AND IN ALL OCCUPATIONS, ANTHRACITE COAL MINES, PENNSYLVANIA, 1920—Concluded.

ALL OCCUPATIONS, INSIDE AND OUTSIDE WORK—16 MINES.

Earnings in half month.	Number of employees in each earnings group whose hours of actual work in a half-month pay-roll period were—																				Total.
	Under 5 hours.	5 and under 10 hours.	10 and under 15 hours.	15 and under 20 hours.	20 and under 25 hours.	25 and under 30 hours.	30 and under 40 hours.	40 and under 50 hours.	50 and under 60 hours.	60 and under 70 hours.	70 and under 80 hours.	80 and under 90 hours.	90 and under 100 hours.	100 and under 110 hours.	110 and under 120 hours.	120 and under 130 hours.	130 and under 150 hours.	150 and under 170 hours.	170 and under 190 hours.	190 hours and over.	
Under \$5.....	7	86	7	4																	104
\$5 and under \$10.....		23	21	48	16	3	1														112
\$10 and under \$15.....		1	2	20	56	27	14	8	1												129
\$15 and under \$20.....		1	2	2	15	11	76	15	15	10	1										148
\$20 and under \$25.....				2	4	7	33	58	14	6	24	30									178
\$25 and under \$30.....					3	6	16	52	50	22	7	25	32	25	7						245
\$30 and under \$35.....			1	1	5	1	4	12	49	47	53	5	24	84	130	6	1				428
\$35 and under \$40.....				2	2			14	22	44	75	80	8	11	70	17	5				354
\$40 and under \$45.....					2		2		8	16	41	70	117	64	23	2	14	11	1		371
\$45 and under \$50.....								6	11	30	43	100	103	198	152	2	3	1			649
\$50 and under \$60.....						2			5	19	39	75	97	180	468	550	213	100	4		1,752
\$60 and under \$70.....							3	6	9	30	73	76	155	315	483	470	355	77	4	13	2,069
\$70 and under \$80.....							1	7	8	26	54	84	169	198	330	186	368	170	35	45	1,681
\$80 and under \$90.....								1	4	9	26	73	146	176	92	53	122	189	56	38	985
\$90 and under \$100.....									5	2	16	66	101	157	61	6	8	94	67	26	609
\$100 and under \$110.....										3	22	38	78	112	47	15	2	4	43	14	378
\$110 and under \$120.....										3	9	15	63	77	41	12	2		3		234
\$120 and under \$130.....											4	14	35	75	18	4	1			7	158
\$130 and under \$140.....									1	2		5	7	34	34	12	2	2			99
\$140 and under \$150.....											5	8	15	19	9	2	1				59
\$150 and over.....									2	1	8	13	27	26	5		2				84
Total.....	7	111	33	79	103	57	154	192	226	315	570	848	1,234	1,998	2,009	1,002	983	542	208	150	10,821

APPENDIX.—DEFINITIONS OF OCCUPATIONS.

Each of the occupations for which figures are presented in this report is briefly defined below.

If a definition applies to an inside occupation the word "inside" follows the name of the occupation. Example—"Brakemen, inside." If it applies to outside work the word "outside" follows the name. Example—"Ashmen, outside." If the occupation is found both inside and outside the mine no modifying word is used. Example—"Blacksmiths."

The same rule has been followed to indicate anthracite and bituminous mine occupations.

Ashmen, outside, anthracite.—Remove ashes from beneath the fire-box of boilers by flushing or by shoveling the ashes into cars.

Blacksmiths.—Do general blacksmithing, nearly all repair work.

Brakemen, inside.—Also known as trip riders, trailers, and tailers. In anthracite mines they are called motor brakemen. They operate or throw switches; couple and uncouple cars; assist motor men in the transportation of loaded coal cars from switches or sidings in the mines to the shaft, and of empty cars from the shaft to the switches or sidings. Loaded cars are hauled by mules from rooms in which coal is mined to the switches and empty cars from the switches to the rooms.

Bratticemen, inside.—Sometimes also called airmen. They usually work under the supervision of the fire boss whose duty it is to see that the mine is prepared for ventilation and for protection against fire. They construct brattices of wood, canvas, stone, brick, or cement. This work is of great importance in mines affected by gas as such mines must be thoroughly ventilated.

Cagers.—Also called bottomers and dumpers. They are stationed at the shaft inside the mine and at the top of the shaft outside the mine. Those inside the mine place loaded coal cars in the cage and take empty cars out of it. Those outside the mine take loaded cars from the cage and place empty cars in it.

Carpenters, outside.—Do general carpentry repair work on mine cars and breakers. Breakers are machines used in breaking large lumps of anthracite coal.

Car runners, inside, anthracite.—In some mines cars are run by gravity from rooms or chambers in which coal is mined to switches or sidings, or to shafts or from switches or shafts to rooms or chambers. Cars so run are in charge of car runners who control their speed or stop them by brakes or sprags.

Car runners, outside, anthracite.—Transfer empty railroad cars to breaker chutes and loaded cars from chutes over a section of the railroad track where scales are installed for weighing cars.

Door tenders, inside (boys), anthracite.—Also called trappers. They open ventilating doors to let cars through them to and from the shaft and close them as quickly and securely as possible as soon

as the cars have passed. In some mines there are no door tenders as the doors are opened and closed automatically.

Drivers, inside.—Drive mules into and out of rooms in which coal is mined, hauling loaded coal cars from rooms to switches or sidings where cars are assembled for transportation by motor to the shaft, and empty cars from switches to the rooms. In mines where the distance from the rooms to the shaft is short, the haul is from the room to the shaft and return, no motor being used.

Dumpers, outside, anthracite.—Dump loaded coal cars at the tippie by hand or by operating mechanical apparatus.

Engineers.—Operate and repair ventilating fans inside the mines and breaker machinery outside the mines. Operate and inspect hoisting machinery which is used in lifting employees and loaded coal cars in cages to the top of the shaft and in lowering employees, empty cars, and material from the top of the shaft into the mines.

Firemen, outside.—Keep fires burning under boilers to produce steam by shoveling coal into the fire box as needed and by keeping the fire box clear of ashes and clinkers.

Jig runners, outside, anthracite.—Operate a jig, a mechanical contrivance or part of the breaker machine, which cleans coal by removing slate, rock, and waste material.

Laborers.—Do various kinds of unskilled inside and outside work. They push cars, assist trackmen and timbermen, shovel dirt and handle material, and do other necessary unskilled work about the mines. In anthracite mines company miners' laborers and consideration miners' laborers are not included with these laborers, because they are paid a higher wage than is paid to these.

Laborers, company miners', inside, anthracite.—Load cars and assist company miners in drilling holes into stone or coal for explosives. The drilling is done with electric or compressed-air machines. Company miners seldom mine any coal, it being their duty to remove obstructions and prospect for new chambers or rooms. These laborers are paid a time rate which is a little lower than that of "Laborers, consideration miners'."

Laborers, consideration miners', anthracite.—Load cars and assist consideration miners in drilling holes into coal or stone for explosives. The drilling is done with electric or compressed-air coal-mining machines. They become contract miners' laborers when working conditions improve and miners are able to earn on a tonnage basis more than the fixed or specified time rate of consideration miners. They are paid a time rate when working as consideration miners' laborers, the rate being a little higher than that of company miners' laborers and are paid on a tonnage basis when working as contract miners' laborers.

Laborers, contract miners', inside, anthracite.—Load cars and assist contract miners in operating electric or compressed-air coal-mining machines which are used in drilling holes into coal for explosives. They become consideration miners' laborers when mining or working conditions are abnormal, due to obstructions, such as stone, slate, and dirt, and when contract miners are thereby unable to earn on a tonnage basis more than the fixed or specified rate of consideration miners. They are paid on a tonnage basis when contract miners' laborers and a time rate when consideration miners' laborers. The

rate as consideration miners' laborers is a little higher than that of company miner's laborers.

Loaders, inside, bituminous.—Shoot or blast coal from veins or beds after it has been undercut by machine miners and then load the coal into cars with coal-loading machines. In some mines they do the timbering; that is, set props or timbers to prevent the falling of slate, stone, and earth into the rooms of the mines; also lay tracks in rooms of mines and keep rooms in good working condition.

Loaders, outside, anthracite.—Load coal into railroad cars and refuse into mine cars.

Machinists, anthracite.—Install and repair machines and machinery.

Masons, inside, anthracite.—Construct necessary air bridges and walls to conduct or force air into all parts of the mine.

Miners, company, inside, anthracite.—These employees very seldom mine coal. They operate electric or compressed-air machines, drill holes into stone or coal for explosives, and load cars. They are usually engaged in removing obstructions in the mines and in prospecting for profitable mining chambers. They are paid a time rate which is a little less than that of the consideration miner and are called "company miners" to distinguish them from the consideration miner.

Miners, consideration, inside, anthracite.—Operate electric or compressed air coal mining machines, drill holes into coal or stone for explosives, and also load coal into cars. These employees are regular contract miners who, in consequence of obstructions in their working chambers or rooms, such as stone, slate, dirt, or of bad working conditions, are unable to earn on a tonnage basis an amount equal to or in excess of a certain specified rate per day. They are paid the specified rate, which is a little more than that of company miners, until they are able to earn more on a tonnage basis.

Miners, contract, inside, anthracite.—Operate electric or compressed-air coal-mining machines, drill holes into coal for explosives, and also load coal into cars. They are paid on a tonnage basis. A contract miner becomes a consideration miner when, owing to obstructions in his working chamber or room, such as stone, slate, or dirt, he is unable to earn an amount in excess of a fixed or specified rate per day. He then becomes a consideration miner and is paid the fixed rate per day until he is able to earn more on a tonnage basis.

Miners, hand or pick, inside, bituminous.—Undercut coal with pick, cutting some distance from the face of the vein, separate it from veins with pick or explosives, and load the coal into cars.

Miners, machine, inside, bituminous.—Operate electric or compressed-air coal-mining machines, undercutting veins of coal and drilling holes into coal for explosives.

Motormen, inside.—Operate motors which are used in the transportation of loaded cars from switches or sidings in the mines to the shaft and of empty cars from the shaft to the switches or sidings. Loaded and empty cars are hauled to and from the switches by mules.

Motor brakemen, anthracite.—See Brakemen, inside, bituminous.

Oilers, outside, anthracite.—Oil and clean machines and engines.

Platemen, outside, anthracite.—Work at the breaker machines and remove large stones from the coal before it enters the conveyors.

Pumpmen, inside.—Operate, repair, and look after pumps used in pumping water from the mines.

Repairmen, outside, anthracite.—Repair chutes and breakers and other machinery.

Timber cutters, outside, anthracite.—Cut and load props or timbers into cars for transportation into the mines. They also load cars with other supplies for use in mines.

Timbermen, inside.—Cut and set timbers or supports in mines to prevent falls of slate, stone, and dirt.

Trackmen.—Lay and repair tracks used in the transportation in and about the mines. At some mines outside trackmen repair tracks on the mine property.

Slaters (boys), outside, anthracite.—Also called pickers. They pick slate from the coal as it passes over the automatic conveyors or down the coal chutes.

Trappers (boys), outside, bituminous.—See Door tenders, inside, anthracite.

