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JAMES J. DAVIS, Secretary
BUREAU OF LABOR STATISTICS
ETHELBERT STEWART, Commissioner

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WAGES AND HOURS OF LABOR SERIES

WAGES AND HOURS OF LABOR
IN LUMBER MANUFACTURING
1921



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WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING: 1921.

INTRODUCTION.

Rates of wages per hour, hours of labor per week, and full-time weekly earnings in lumber manufacturing in the United States are presented in this report for 1921. Both the sawmill and logging branches of the industry are included.

Summary figures for sawmills are shown for each year that data were collected from 1907 to 1921. No data were collected for the years 1914, 1916, 1917, 1918, and 1920.¹

Figures for hours of labor, earnings, and production are based on data for one pay period taken from the books of representative establishments by special agents of the bureau. The pay period varied in length from one week to one month.

In selecting establishments from which to obtain data the bureau undertook to have all States represented in which this industry is of material importance, as indicated by the number of employees reported by the United States Census of Manufactures in 1914, which are the latest figures available.

Agents of the bureau found it difficult to obtain representative mills in some States as a great deal of the timber in such States has been cut out and consequently the number of mills has decreased materially. In other States the number has increased. There was depression in the industry in many sections during the period of obtaining information.

Data were obtained from the July pay rolls of 3 establishments, the August pay rolls of 60 establishments, the September pay rolls of 105 establishments, the October pay rolls of 78 establishments, the November pay rolls of 30 establishments, and the December pay rolls of 3 establishments.

¹ Previous reports of wages and hours of labor in lumber manufacturing have been published by the bureau as follows: Nineteenth Annual Report, covering 1890 to 1903; Bulletin No. 59 (July, 1905), covering 1903 and 1904; Bulletin No. 65 (July, 1906), covering 1904 and 1905; Bulletin No. 71 (July, 1907), covering 1905 and 1906; Bulletin No. 77 (July, 1908), covering 1906 and 1907; Bulletin No. 123 (August, 1913), covering 1907 to 1912; Bulletin No. 153 (May, 1914), covering 1912 and 1913; Bulletin No. 225, covering 1915, and Bulletin No. 265, covering 1919.

6 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

The following table shows by States the number of employees in the industry as reported by the United States census of 1914, the number of establishments from which the bureau obtained data for 1921, and the number of employees for which data are shown in this report:

TABLE 1.—TOTAL NUMBER OF EMPLOYEES IN LUMBER MANUFACTURING IN 1914 AND NUMBER OF EMPLOYEES FOR WHICH DATA ARE SHOWN FOR 1921.

State.	Number of wage earners in this industry reported by United States census 1914.	Establishments and employees for which sawmill data for 1921 are shown in this report.	
		Number of establishments.	Number of employees.
Louisiana.....	42,169	15	4,531
Washington.....	36,461	17	5,324
North Carolina.....	30,590	21	2,214
Mississippi.....	28,490	12	3,775
Arkansas.....	28,212	18	3,642
Wisconsin.....	24,941	16	2,206
Virginia.....	22,100	10	1,040
Alabama.....	21,646	17	2,306
Michigan.....	21,488	15	1,222
Texas.....	17,788	7	1,772
Minnesota.....	16,814	6	2,205
Florida.....	16,392	16	2,289
West Virginia.....	16,091	13	989
California.....	15,067	15	2,605
Georgia.....	15,023	17	1,338
Tennessee.....	14,452	19	1,176
Maine.....	13,448	14	1,006
Oregon.....	12,829	10	2,572
Pennsylvania.....	10,754	4	329
South Carolina.....	10,400	8	1,196
Idaho.....	5,968	5	1,143
Montana.....	2,873	4	807
All other States.....	55,775
Total.....	479,786	279	45,667

According to the census of 1914 more than 88 per cent of the total number of wage earners in the industry are found in the States in which the establishments furnishing information to the Bureau of Labor Statistics are located. The number of employees for whom the bureau obtained 1921 data and for whom detailed information is presented in this report is about 9½ per cent of the total number in the industry as reported in the census of 1914.

Table 2 shows the classified number of head saws, total number of head saws, average number of head saws per mill, average number of days the mills were in operation, and average days of operation per head saw, by States, for the year ending August 31, 1921.

The head saw is the large saw which first receives the log in the process of lumber manufacture. It is generally used to saw the log into boards of finished thickness but may be employed to cut the log into cants only, a resaw or gang saw being used in a later operation to further reduce the size of the lumber.

TABLE 2.—TOTAL AND SPECIFIED NUMBER OF HEAD SAWS, NUMBER OF MILLS, AVERAGE NUMBER OF HEAD SAWS PER MILL, AVERAGE NUMBER OF DAYS MILLS WERE IN OPERATION, AND AVERAGE DAYS AND NIGHTS OF OPERATION OF HEAD SAWS, BY STATES, FOR THE YEAR ENDING AUGUST 31, 1921.

State.	Mills operating each specified number of head saws.					Total number of—		Average number of head saws per mill.	Average number of days mills operated.	Average number of turns each head saw was operated.		
	1	2	3	4	5 or more.	Mills.	Head saws.			Day.	Night	Total
Alabama.....	10	7				17	24	1.4	222	230	5	235
Arkansas.....	7	8	3			18	32	1.8	257	250	1	251
California.....	3	10	1	1		15	30	2.0	232	221	79	300
Florida.....	8	8				16	24	1.5	269	272	29	302
Georgia.....	14	3				17	20	1.2	227	234	25	259
Idaho.....		2	2	1		5	14	2.8	202	203	37	240
Louisiana.....	3	9	1	1	1	15	33	2.2	274	266	60	336
Maine.....	8	5	1			14	21	1.5	174	175	5	181
Michigan.....	5	8	2			15	29	1.9	234	233	24	256
Minnesota.....		2	2		2	6	25	4.2	209	212	119	331
Mississippi.....		11		1		12	26	2.2	270	269	32	301
Montana.....	1	2	1			4	8	2.0	212	212	75	287
North Carolina.....	13	7				20	27	1.4	238	223	2	245
Oregon.....	4	6				10	16	1.6	221	214	48	263
Pennsylvania.....	2	2				4	6	1.5	267	265		265
South Carolina.....	5	2	1			8	12	1.5	185	186	7	193
Tennessee.....	15	4				19	23	1.2	216	204	3	217
Texas.....		4	2	1		7	18	2.6	281	281	25	306
Virginia.....	7	2				9	11	1.2	249	247	52	298
Washington.....	9	8				17	25	1.5	245	245	31	276
West Virginia.....	5	8				13	21	1.6	244	237	25	262
Wisconsin.....	5	11				16	27	1.7	235	233	32	265
Total.....	124	129	14	7	3	277	472	1.7	236	234	33	267

1 Five saws.

2 Not including 1 mill for which data were not reported.

3 One mill 7 saws, and one 8 saws.

4 Not including 2 mills for which data were not reported.

Of the 277 mills, 124 had 1 head saw each, 129 had 2 head saws each, 14 had 3 head saws each, 7 had 4 head saws each, and 3 had 5, 7, and 8 head saws respectively, or a total of 472 head saws. The mills averaged 1.7 head saws each.

The 472 head saws averaged 234 day turns and 33 night turns or a total of 267 turns during the year. The mills averaged 236 days in operation during the year.

The mills in Texas averaged 90 per cent of possible days in operation and the mills of Maine averaged 56 per cent. These two States show the extreme range of time in operation.

Wages in the mills reached their highest point in the early part of 1920. At the time the bureau's agents obtained the schedules in 1921 the mills reported an average approximate reduction in wages of 35 per cent from the high point. This percentage of reduction varied in different sections of the country, being about 38 per cent in the Southern States, about 34 per cent in the far Western States, and about 32 per cent in the Northern and Eastern States.

Table 3 shows by States the number of establishments, number of employees, production in board feet per 1-man hour, labor cost per 1-man hour, and cost per 1,000 board feet of lumber produced, in 1-man hours and in wages. These figures are obtained from earnings of productive wage workers only, and do not include earnings of managerial or office workers, supervisory employees, maintenance and repair workers, and saw filers.

8. WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE 3.—NUMBER OF ESTABLISHMENTS, NUMBER OF EMPLOYEES, NUMBER OF BOARD FEET PRODUCED PER 1-MAN HOUR, LABOR COST PER 1-MAN HOUR, AND COST PER 1,000 BOARD FEET PRODUCED, IN 1-MAN HOURS AND IN WAGES.

[This table does not include managerial, supervisory or clerical employees, construction, maintenance and repair employees, or saw filers.]

State.	Number of—		Production in board feet per 1-man hour.	Labor cost per 1-man hour.	Cost per 1,000 board feet produced, in—	
	Establishments.	Employees.			1-man hours.	Wages.
Alabama.....	17	2,306	67	\$0.196	14.9	\$2.92
Arkansas.....	18	3,642	56	.253	17.9	4.54
California.....	15	2,605	116	.472	8.6	4.09
Florida.....	16	2,269	70	.210	14.3	3.00
Georgia.....	116	1,107	50	.176	20.1	3.54
Idaho.....	5	1,143	107	.457	9.3	4.29
Louisiana.....	15	4,531	59	.244	16.9	4.14
Maine.....	14	1,006	88	.364	11.3	4.12
Michigan.....	15	1,222	75	.350	13.3	4.67
Minnesota.....	6	2,265	70	.375	14.3	5.37
Mississippi.....	12	3,775	63	.231	15.9	3.69
Montana.....	4	807	101	.452	9.9	4.48
North Carolina.....	21	2,214	55	.258	18.2	4.69
Oregon.....	10	2,572	117	.466	8.5	3.98
Pennsylvania.....	4	3,259	50	.345	16.9	5.84
South Carolina.....	8	1,196	57	.202	17.7	3.57
Tennessee.....	19	1,176	67	.263	14.9	3.90
Texas.....	7	1,772	64	.274	15.7	4.31
Virginia.....	19	978	69	.242	14.5	3.52
Washington.....	17	5,324	97	.458	10.3	4.70
West Virginia.....	112	956	85	.360	11.7	4.23
Wisconsin.....	16	2,206	63	.325	16.0	5.21
Total.....	276	45,341	79	.335	12.7	4.24

¹ Not including 1 mill, for which data were not reported.

² Not including 3 mills for which data were not reported.

The highest production of board feet per 1-man hour is 117 in Oregon and California follows with 116. The lowest production is shown in Georgia, 50 feet. The average for all the States reported is 79 feet.

Georgia leads in low labor cost per 1-man hour, with 17.6 cents, and California with the highest, 47.2 cents. The average was 33.5 cents.

It required 8.5 1-man hours in Oregon and 20.1 hours in Georgia to produce 1,000 board feet of lumber. The average for all States was 12.7 hours.

The range of labor cost per 1,000 board feet of lumber was from \$2.92 in Alabama to \$5.84 in Pennsylvania. The average for all States was \$4.24.

In making comparisons of different States, the quality of labor, variety and size of timber, and different methods of handling should be taken into consideration.

Table 4 shows index numbers of full-time hours per week, earnings per hour, and full-time earnings per week, by occupations from 1907 to 1921. The base year used is 1913, as this year represents the period immediately preceding the war. Doggers, setters, resawyers, and machine feeders are compared for the years 1911 to 1921 only, as no data prior to 1911 are available. No figures are given for saw tailers, as separate data for this occupation were not secured prior to 1921.

The index numbers for earnings in most occupations show decreases in 1921 from 1919. The peak of wages, however, occurred in 1920; for which year no detailed data were gathered.

TABLE 4.—INDEX NUMBERS OF FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, AND FULL-TIME EARNINGS PER WEEK, 1907 TO 1921.

[1913=100.]

Occupation.	Year.	Number of establishments.	Number of employees.	Index numbers of—		
				Full-time hours per week.	Earnings per hour.	Full-time earnings per week.
Doggers.....	1911	273	852	100	97	98
	1912	334	973	100	98	99
	1913	334	939	100	100	100
	1915	345	1,099	100	97	97
	1919	136	471	94	195	184
	1921	261	904	95	166	158
Setters.....	1911	301	714	100	97	97
	1912	361	780	100	97	97
	1913	361	782	100	100	100
	1915	348	687	100	93	93
	1919	141	311	93	173	162
	1921	279	673	94	160	151
Sawyers, head, band.....	1907	34	71	100	88	88
	1908	34	69	100	86	86
	1909	34	69	100	88	88
	1910	203	429	100	97	98
	1911	243	508	100	99	99
	1912	288	561	100	98	99
	1913	288	554	100	100	100
	1915	286	572	100	97	97
	1919	120	249	94	138	130
	1921	251	527	95	143	136
	Sawyers, head, circular.....	1907	12	14	99	106
1908		12	14	99	101	100
1909		12	13	99	102	101
1910		58	81	100	97	97
1911		72	95	101	98	99
1912		92	119	101	97	98
1913		92	123	100	100	100
1915		76	98	100	90	89
1919		30	37	92	146	135
1921		38	48	96	130	125
Sawyers, gang.....		1907	5	6	98	87
	1908	5	6	98	82	81
	1909	5	6	98	83	81
	1910	52	64	100	99	99
	1911	66	74	100	98	99
	1912	71	79	100	99	99
	1913	71	80	100	100	100
	1915	81	93	101	93	93
	1919	34	46	92	167	154
	1921	61	82	93	155	144
	Sawyers, resaw.....	1911	98	149	100	97
1912		138	197	100	97	98
1913		138	192	100	100	100
1915		152	215	100	92	92
1919		67	111	91	180	165
1921		145	239	92	177	164
Edgermen.....	1907	41	79	100	95	95
	1908	41	78	100	92	92
	1909	41	77	100	93	92
	1910	245	585	100	95	96
	1911	299	684	100	97	97
	1912	361	751	100	98	98
	1913	361	754	100	100	100
	1915	348	756	100	94	94
	1919	140	314	94	168	159
	1921	278	727	94	163	154
	Trimmer operators.....	1907	37	72	100	95
1908		37	68	100	90	90
1909		37	72	100	91	91
1910		228	503	100	96	96
1911		228	485	100	97	97
1912		346	511	100	96	96
1913		346	538	100	100	100
1915		345	564	100	94	93
1919		139	273	94	187	176
1921		277	530	93	175	165
Machine feeders, planing.....		1911	178	1,156	100	96
	1912	253	1,548	100	97	98
	1913	253	1,531	100	100	100
	1915	269	1,679	100	95	95
	1919	120	668	92	210	194
	1921	149	831	92	176	163

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TABLE 4.—INDEX NUMBERS OF FULL-TIME HOURS PER WEEK, EARNINGS PER HOUR, AND FULL-TIME EARNINGS PER WEEK, 1907 TO 1921—Concluded.

Occupation.	Year.	Number of establishments.	Number of employees.	Index numbers of—		
				Full-time hours per week.	Earnings per hour.	Full-time earnings per week.
Laborers.....	1907	41	4,097	99	107	106
	1908	41	3,662	99	98	97
	1909	41	3,910	99	100	100
	1910	245	20,327	100	97	97
	1911	299	26,784	100	95	95
	1912	361	29,365	101	96	96
	1913	361	28,835	100	100	100
	1915	348	36,569	100	92	92
	1919	141	15,542	93	202	189
	1921	279	27,967	94	167	157
	Other employees.....	1915	348	16,513
1919		(¹)	(¹)
1921		279	12,552

¹ No data available.

ANALYSIS OF GENERAL TABLES.

In addition to the text tables already shown three general sawmill tables are presented as follows:

TABLE A.—Average and classified full-time hours per week and earnings per hour and average full-time weekly earnings, by occupations, in the United States, by years, 1907 to 1921.

TABLE B.—Average and classified full-time hours per week and earnings per hour, and average full-time weekly earnings, by occupations, in each State, 1921.

TABLE C.—Average number of days starts were made, average full-time hours and earnings per week, and average actual hours worked and earnings per pay period, by occupations, in each State, 1921. This table is divided into three sections by length of pay periods, which are one week, two weeks or half month, and one month.

Full-time hours per week are the regular customary hours during which under normal conditions employees in an occupation are on duty. The full-time weekly earnings are the earnings of the employee working full time or the earnings on broken or short time reduced to equivalent earnings for a full week.

LOGGING WAGES AND HOURS OF LABOR.

In addition to the sawmill investigation information was obtained in 1921 relating to the wages and hours of labor in logging in the following 10 States:

State.	Establishments.
Arkansas.....	16
California.....	15
Idaho.....	3
Louisiana.....	14
Mississippi.....	11
Montana.....	3
North Carolina.....	17
Oregon.....	8
Washington.....	19
West Virginia.....	13

In Table D are shown for each State from which data were obtained the number of employees, the full-time hours per week, the wage rates, and the equivalent rates per hour, by occupation.

Occupations are arranged alphabetically under each State and no attempt has been made to combine those which, while having different names, indicate the same or similar work. It has been thought better to use the nomenclature in use in the locality and in the camp from which the data were obtained. This will account for the appearance in the same State of different terms meaning nearly if not exactly the same thing.

TABLE A.—AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND EARNINGS PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS, BY OCCUPATIONS, IN THE UNITED STATES, BY YEARS, 1907 TO 1921—Concluded.

Occupation and number of establishments.	Year.	Number of employees.	Average full-time hours per week.	Average earnings per hour.	Average full-time weekly earnings.	Employees whose full-time hours per week were—						Employees whose earnings per hour were—																					
						48 or under 54.	Over 48 and under 54.	54	Over 54 and under 60.	60	Over 60 and under 66.	66	Over 66.	Under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 and under 80 cts.	80 and under 90 cts.	90 cts. and under \$1.	\$1 and under \$1.25.	\$1.25 and over.					
Machine feeders, planing:																																	
178 establishments.	1911	1,156	61.3	.179	10.94				20	871	64	201		200	203	288	84	240	122	18													
253 establishments.	1912	1,548	61.4	.181	11.07				11	1,143	71	302	21	306	208	363	148	355	160	25													
253 establishments.	1918	1,531	61.1	.186	11.34				1	1,158	78	233	15	230	262	339	134	330	173	62	1												
269 establishments.	1915	1,679	61.2	.176	10.74				1	1,277	94	270	22	450	244	289	145	357	161	51	2												
120 establishments.	1919	868	56.5	.390	22.04	192		11	23	404	34	4		1	3	6	7	38	79	257	107	125	43	1	1								
149 establishments.	1921	831	56.4	.327	18.44	247		9	7	554	10	4		12	20	44	38	183	140	122	197	69	10	1									
Laborers:																																	
41 establishments.	1907	4,097	60.5	.183	11.07				1	133	3,544	221	147	52	632	440	948	378	1,478	214	7												
41 establishments.	1908	3,662	60.6	.167	10.12				1	197	3,027	239	148	51	710	578	1,250	426	612	54	2												
41 establishments.	1909	3,910	60.8	.171	10.35				1	183	3,278	245	152	52	655	402	1,375	676	732	68	2												
345 establishments.	1910	20,327	61.3	.166	10.12				1	603	15,008	1,008	3,596	112	5,965	2,523	3,760	2,162	5,309	580	29												
299 establishments.	1911	26,794	61.4	.162	9.91				1	399	19,567	1,746	4,872	200	8,406	4,510	5,312	2,374	5,459	746	67												
361 establishments.	1912	29,365	61.5	.164	10.03					483	21,015	1,440	6,050	377	9,290	4,998	5,757	2,130	5,865	1,128	158	14											
361 establishments.	1913	28,835	61.1	.171	10.40				1	930	21,901	1,642	4,050	312	7,647	5,043	5,028	2,545	6,788	1,532	235	17											
343 establishments.	1915	36,569	61.3	.157	9.58	*61			1	639	27,325	2,107	5,799	638	13,559	5,890	6,313	3,146	6,047	1,390	211	10	2										
141 establishments.	1919	15,542	57.1	.345	19.70	3,687		333	518	10,306	603	88	10	21	112	224	236	1,816	3,017	5,578	2,213	2,208	130	3									
279 establishments.	1921	27,968	57.2	.285	16.30	6,456		73	369	778	19,208	510	442	132	2,412	3,650	2,652	519	5,078	2,410	7,026	3,597	561	58	5								
Other employees:																																	
348 establishments.	1915	16,513	63.3	.214	13.44	*27			1	279	10,117	950	2,741	2,369	3,791	1,289	1,529	1,222	3,375	2,391	2,069	592	216	*89									
279 establishments.	1921	12,552	60.0	.392	23.52	2,289		42	117	636	7,519	165	215	1,569	309	257	349	210	1,551	1,504	3,135	2,483	1,515	779	309	74	30	44		3			

* Tabulated in previous reports as "54 and under 60."

* Tabulated in previous reports as "Under 54."

* Tabulated in previous reports as "60 cents and over."

TABLE B.—AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND EARNINGS PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS, BY OCCUPATIONS, IN EACH STATE, 1921.

Occupation and State.	Number of establishments.	Number of employes.	Average full-time hours per week.	Average earnings per hour.	Average full-time weekly earnings.	Employees whose full-time hours per week were—						Employees whose earnings per hour were—																							
						48 or under.	Over 48 and under 54.	54	Over 54 and under 60.	60	Over 60 and under 66.	66	Over 66.	Under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 and under 80 cts.	80 and under 90 cts.	90 cts. and under \$1.	\$1 and under \$1.25.	\$1.25 and over.							
Doggers:																																			
Alabama.....	17	50	60.7	\$0.191	\$11.59					43	3	4		5	7	8	8	16	6																
Arkansas.....	18	75	59.5	.247	14.70	3				72						2		29	43	1															
California.....	14	70	56.0	.466	26.10	20		7		43										3	45	21	1												
Florida.....	16	67	60.6	.197	11.94					60				1	4	10	8	23	18	3															
Georgia.....	14	35	60.9	.159	9.68				2	23	4	6		12	3	8		12																	
Idaho.....	2	6	48.0	.426	20.45	6																													
Louisiana.....	15	101	60.0	.243	14.58					101						1	2	44	43	11															
Maine.....	13	32	58.3	.359	20.93			4	6	22								1	2	21	6	2													
Michigan.....	14	26	60.0	.381	22.56					26									1	2	15	9													
Mississippi.....	12	87	60.0	.222	13.32					87						7	8																		
Montana.....	2	3	60.0	.368	22.08					3								45	27	3															
North Carolina.....	20	38	63.3	.251	15.39					28	3	2		1	2	5		13	6	10	1														
Oregon.....	10	34	48.0	.450	21.60	34				5											26	8													
Pennsylvania.....	4	5	60.0	.355	21.30					5																									
South Carolina.....	8	28	59.5	.202	12.02					25										4	4	1													
Tennessee.....	19	39	58.0	.255	14.79				3	25						5	3	16	4																
Texas.....	7	49	59.4	.271	16.10				4	45							1	1		5	3														
Virginia.....	10	29	58.6	.216	12.66				4	21	2					7	2	7	6	3															
Washington.....	17	76	48.0	.439	21.07	76															68	3													
West Virginia.....	13	20	60.0	.339	20.34					20										2	18														
Wisconsin.....	16	34	58.7	.328	19.25				4	4										31	3														
Total.....	261	904	58.1	.306	17.78	139	11	15	33	674	13	19		19	28	47	34	217	217	142	165	34	1												
Setters:																																			
Alabama.....	17	31	61.2	.269	16.46					24	3	4		1	1			12	5	7	4	1													
Arkansas.....	18	37	59.7	.326	19.46	1				36								1	3	31	2														
California.....	15	45	55.0	.549	30.74	13		4		28											16	14	15												
Florida.....	16	31	60.6	.285	17.27					28		3						1	4	5	16	5													
Georgia.....	17	22	61.5	.224	13.78					13	2	6						1	6	4	5														
Idaho.....	5	36	48.0	.511	24.53				36					5	1																				
Louisiana.....	15	50	60.0	.329	19.74					50											43	4													
Maine.....	14	33	57.4	.435	24.97					12										3	17														

TABLE B.—AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND EARNINGS PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS, BY OCCUPATIONS, IN EACH STATE, 1921—Continued.

Occupation and State.	Number of establishments.	Number of employees.	Average full-time hours per week.	Average earnings per hour.	Average full-time weekly earnings.	Employees whose full-time hours per week were—						Employees whose earnings per hour were—																						
						48 or under.	Over 48 and under 54.	54	Over 54 and under 60.	60	Over 60 and under 66.	66	Over 66.	Under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 and under 80 cts.	80 and under 90 cts.	90 cts. and under \$1.	\$1 and under \$1.25	\$1.25 and over.						
Settlers—Concluded.																																		
Michigan.....	15	29	60.0	\$0.463	\$27.78				29								1	25	2		1													
Minnesota.....	6	60	60.0	.473	28.38				60								7	11	42															
Mississippi.....	12	38	60.0	.328	19.68				38						15	21			2															
Montana.....	4	23	55.6	.527	29.30	6		5	12										11	6	6													
North Carolina.....	21	32	60.2	.337	20.29			5	23	3	1								6	1														
Oregon.....	10	24	48.0	.541	25.97	24													3	18	3													
Pennsylvania.....	4	9	60.0	.434	26.04				9										9															
South Carolina.....	8	16	59.7	.264	15.76			1	15										4	4	7													
Tennessee.....	19	24	58.0	.300	20.30		2	7	15					5	4				15	4	1													
Texas.....	7	28	59.5	.325	19.34		2		26						4	24			4															
Virginia.....	10	17	58.7	.265	15.56		2	2	12	1					5	2			2	4														
Washington.....	17	40	48.0	.545	26.16	40													13	18	6					1	1	1						
West Virginia.....	13	24	60.0	.410	24.60				24										8	14	2													
Wisconsin.....	16	34	59.1	.405	23.94			2	4	27	1								10	23	1													
Total.....	279	673	57.6	.412	23.73	120	6	16	26	481	10	14							8	3	5	2	37	53	210	177	140	34	2	1	1			
Sawyers, head, band:																																		
Alabama.....	11	22	61.0	.749	45.69	3			18	1									1	4	5	6	6											
Arkansas.....	17	33	60.0	.785	47.10				33	2									1	2	13	15	1	1										
California.....	15	44	55.5	.864	47.95	14		5	25											1	8	12	3	20										
Florida.....	12	27	60.7	.825	50.08				24		3										3	9	8	3	2									
Georgia.....	9	13	59.8	.735	43.95			1	20	2											2	9	1											
Idaho.....	5	14	48.0	.833	39.98	14																14												
Louisiana.....	14	43	60.0	.824	49.44				43										1		7	18	15	2										
Maine.....	12	20	57.3	.686	39.31		4	6	10										3	7	7	2		1										
Michigan.....	14	26	60.0	.730	43.80				26										1	11	9	3	2											
Minnesota.....	6	31	60.0	.755	45.30				31										1	3	3	1	7	16										
Mississippi.....	12	37	60.0	.798	47.88				37												1	9	25	1	1									
Montana.....	4	15	54.4	.904	49.18	6		2														5	3	7										
North Carolina.....	19	24	60.4	.647	39.08			2	18	3	1								2	4	12	3												
Oregon.....	10	20	48.0	1.106	53.09	20																2												
Pennsylvania.....	4	7	60.0	.621	37.26				7												7													

TABLE B.—AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND EARNINGS PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS, BY OCCUPATIONS, IN EACH STATE, 1921—Continued.

Occupation and State.	Number of establishments.	Number of employees.	Average full-time hours per week.	Average earnings per hour.	Average full-time weekly earnings.	Employees whose full-time hours per week were—						Employees whose earnings per hour were—																						
						48 or under.	Over 48 and under 54.	54	Over 54 and under 60.	60	Over 60 and under 66.	66	Over 66.	Under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 and under 80 cts.	80 and under 90 cts.	90 cts. and under \$1.	\$1 and under \$1.25.	\$1.25 and over.						
Sawyers, head, circular—Concluded.																																		
Texas.....	3	4	60.0	\$0.873	\$52.38					4																								
Washington.....	3	3	48.0	1.009	48.43	3																												
Wisconsin.....	1	2	57.5	.680	39.10					1	1																							
Total.....	38	48	59.4	.666	39.56	6				3	30	1	8																					
Sawyers, gang:																																		
Alabama.....	7	10	63.4	.386	24.47						5	1	3	1																				
Arkansas.....	2	3	60.0	.368	22.08						3																							
Florida.....	7	9	60.7	.270	16.39						8		1																					
Georgia.....	2	2	63.0	.294	14.74						1																							
Idaho.....	2	2	48.0	.638	30.62	2																												
Louisiana.....	5	8	60.0	.527	31.62						8																							
Michigan.....	2	2	60.0	.425	25.50						2																							
Minnesota.....	2	3	60.0	.447	26.82						3																							
Mississippi.....	5	7	60.0	.444	26.64						7																							
North Carolina.....	2	4	60.0	.190	11.40						4																							
Oregon.....	6	10	48.0	.633	30.38	10																												
South Carolina.....	1	1	60.0	.600	36.00						1																							
Texas.....	3	3	60.0	.594	35.64						3																							
Virginia.....	1	1	60.0	.335	20.10						1																							
Washington.....	10	13	48.0	.625	30.00	13																												
Wisconsin.....	4	4	58.8	.419	24.64						1	3																						
Total.....	61	82	56.8	.482	27.38	25					1	49	1	5	1																			
Sawyers, resaw:																																		
Alabama.....	5	5	60.0	.391	23.46						5				1	1																		
Arkansas.....	10	10	58.8	.363	21.34						9				1																			
California.....	12	22	56.8	.520	29.54	5		3			14																							
Florida.....	5	7	60.0	.291	17.46						7																							
Georgia.....	1	1	60.0	.375	22.50						1																							
Idaho.....	2	3	48.0	.470	22.56						3																							
Louisiana.....	4	8	60.0	.291	17.46						8																							
Maine.....	9	12	58.7	.379	22.25						1	2																						

TABLE B.—AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK AND EARNINGS PER HOUR, AND AVERAGE FULL-TIME WEEKLY EARNINGS, BY OCCUPATIONS, IN EACH STATE, 1921—Concluded.

Occupation and State.	Number of establishments.	Number of employees.	Average full-time hours per week.	Average earnings per hour.	Average full-time weekly earnings.	Employees whose full-time hours per week were—						Employees whose earnings per hour were—																				
						48 or under.	Over 48 and under 54.	54	Over 54 and under 60.	60	Over 60 and under 66.	66	Over 66.	Under 14 cts.	14 and under 16 cts.	16 and under 18 cts.	18 and under 20 cts.	20 and under 25 cts.	25 and under 30 cts.	30 and under 40 cts.	40 and under 50 cts.	50 and under 60 cts.	60 and under 70 cts.	70 and under 80 cts.	80 and under 90 cts.	90 cts. and under \$1.	\$1 and under \$1.25.	\$1.25 and over.				
Trimmer operators—																																
Concluded.																																
Mississippi	12	29	60.0	\$0.272	\$16.32				29																							
Montana	4	10	54.6	.449	24.52	3		3	4																							
North Carolina	21	26	60.3	.284	17.13			4	18	3	1																					
Oregon	10	24	48.0	.540	25.92	24																										
Pennsylvania	4	11	60.0	.353	21.18				11																							
South Carolina	8	12	59.6	.205	12.22				11																							
Tennessee	19	26	57.2	.272	15.56			2	14																							
Texas	7	12	59.4	.315	18.71			1	11																							
Virginia	10	15	58.7	.246	14.44			2	1																							
Washington	17	61	48.0	.358	26.78	61			18																							
West Virginia	13	18	60.0	.388	23.28																											
Wisconsin	16	25	59.4	.390	22.57			1	21	1																						
Total	277	530	57.0	.381	21.72	121	5	12	31	339	10	12	10	9	17	13	57	61	152	120	59	26	6									
Machine feeders, planing:																																
Alabama	10	65	60.7	.203	12.32				56	5	4		4	7	11	16	16	4	6													
Arkansas	14	110	59.1	.241	14.24			4	106					1	5	2	48	44	10													
California	10	19	54.9	.479	26.30			6	9																							
Idaho	5	30	48.0	.466	22.37	30																										
Louisiana	15	121	60.0	.230	13.80				121					5		10	7	50	30	17	2											
Maine	11	17	58.2	.373	21.71			1	5	11									1	11	4	1										
Minnesota	6	37	60.0	.370	22.20				37										1	19	17											
Mississippi	12	88	60.0	.228	13.68				88						11	11	3	41	19	3												
Montana	4	20	54.0	.414	22.36			8	4	8										8	12											
North Carolina	13	23	60.3	.293	17.67				1	20	2				1	6	1		4	7	4											
Oregon	8	51	48.0	.495	23.76			51												16	34	1										
Pennsylvania	4	6	60.0	.362	21.72				6											5	1											
South Carolina	2	4	58.3	.147	8.64			1	3				3			1																
Tennessee	2	8	60.0	.235	14.10				8																							
Texas	7	58	60.0	.264	15.84				58								3	11	29	15												
Virginia	3	12	60.6	.225	13.64				9	3							1	8	3													
Washington	17	148	48.0	.456	21.89	148														12	110	21	5									
West Virginia	6	14	60.0	.297	17.82				14										4	4	5	1										
Total	149	831	56.4	.327	18.44	247			9	7	554	10	4	12	20	44	33	183	140	122	197	69	10	1								

TABLE C.—AVERAGE NUMBER OF DAYS STARTS WERE MADE, AVERAGE FULL-TIME HOURS AND EARNINGS PER WEEK, AND AVERAGE ACTUAL HOURS WORKED AND EARNINGS PER PAY PERIOD, BY OCCUPATIONS, IN EACH STATE, 1921.

ONE WEEK PAY ROLLS.

Occupation and State.	Number of—		Average number of days starts were made.	Average full-time hours per week.	Average hours worked per pay period.	Average full-time earnings per week.	Average actual earnings per pay period.
	Estab-lish-ments.	Em-ployees.					
Doggers:							
Alabama.....	5	15	6.0	61.2	60.1	\$10.83	\$10.65
Florida.....	10	46	5.3	60.3	53.7	13.33	11.88
Georgia.....	12	25	5.8	60.7	59.5	10.20	10.01
Louisiana.....	11	74	5.4	60.0	53.8	15.60	14.00
Maine.....	13	32	5.9	58.3	57.3	20.93	20.57
Mississippi.....	5	33	5.3	60.0	53.3	13.14	11.64
North Carolina.....	12	22	5.6	60.3	56.4	12.78	11.94
South Carolina.....	8	28	5.2	59.5	51.6	12.02	10.43
Tennessee.....	13	26	5.2	57.3	48.5	13.58	11.50
Virginia.....	6	22	5.0	58.2	50.4	11.47	9.94
Wisconsin.....	2	3	5.7	60.2	55.5	25.10	23.13
Other States.....	3	18	5.5	60.0	54.0	16.62	14.97
Total.....	100	344	5.5	59.6	54.2	14.24	12.93
Setters:							
Alabama.....	5	8	5.9	61.5	59.9	18.39	17.91
Florida.....	10	22	5.6	60.3	56.0	19.42	18.01
Georgia.....	14	16	5.5	61.3	56.3	14.71	13.51
Louisiana.....	11	37	5.6	60.0	55.6	20.04	18.68
Maine.....	14	23	5.9	57.4	56.1	24.97	24.41
Minnesota.....	2	24	5.1	60.0	50.9	31.44	26.70
Mississippi.....	5	15	5.7	60.0	56.4	17.16	16.11
North Carolina.....	13	19	5.8	60.3	58.3	15.08	14.58
South Carolina.....	8	16	5.2	59.7	51.8	15.76	13.65
Tennessee.....	13	14	5.9	56.9	54.6	19.40	18.64
Virginia.....	6	12	4.8	58.1	48.9	13.01	10.94
Wisconsin.....	2	3	6.0	60.2	68.8	26.37	30.18
Other States.....	3	10	5.2	60.0	51.4	20.46	17.53
Total.....	106	219	5.5	59.6	54.9	20.03	18.45
Sawyers, head, band:							
Alabama.....	3	6	6.0	63.0	52.0	55.25	45.60
Florida.....	9	20	5.5	60.0	55.0	49.50	45.38
Georgia.....	8	9	6.0	59.7	60.8	45.85	46.67
Louisiana.....	10	31	5.8	60.0	57.3	52.02	49.70
Maine.....	12	20	5.9	57.3	56.5	39.31	38.72
Minnesota.....	2	13	5.0	60.0	50.0	54.00	45.00
Mississippi.....	5	16	5.7	60.0	56.6	46.98	44.28
North Carolina.....	11	14	5.9	60.7	59.7	37.76	37.13
South Carolina.....	7	11	6.1	60.0	61.3	43.26	44.16
Tennessee.....	13	14	5.7	56.9	54.0	40.17	38.08
Virginia.....	6	11	5.1	58.2	55.2	35.21	33.35
Wisconsin.....	2	3	6.0	60.2	58.8	44.49	43.47
Other States.....	3	7	6.1	60.0	60.8	42.42	42.98
Total.....	91	175	5.7	59.5	56.5	45.40	43.12
Sawyers, head, circular:							
Alabama.....	2	3	6.0	60.0	59.5	38.04	37.73
Georgia.....	6	6	6.0	64.0	62.6	28.74	28.13
Louisiana.....	2	7	6.0	60.0	60.0	53.53	53.53
Maine.....	2	2	6.0	60.0	60.0	37.50	37.50
North Carolina.....	2	3	6.0	59.7	59.7	27.50	27.50
Other States.....	4	5	6.0	60.2	61.2	41.84	42.51
Total.....	18	26	6.0	60.9	60.7	39.59	39.49
Saw tailors on head saws:							
Alabama.....	5	8	6.1	61.5	62.2	10.58	10.68
Florida.....	10	19	5.7	60.3	58.2	12.54	12.07
Georgia.....	13	15	5.0	61.0	49.8	10.07	8.24
Louisiana.....	11	36	5.4	60.0	54.3	13.62	12.31
Maine.....	14	22	5.9	57.5	56.6	22.20	21.83
Minnesota.....	2	12	5.5	60.0	55.3	24.00	22.13
Mississippi.....	5	14	5.4	60.0	53.9	11.16	10.05
North Carolina.....	13	19	5.5	60.4	55.8	11.48	10.60
South Carolina.....	8	14	5.9	59.6	58.4	10.85	10.62
Tennessee.....	13	15	5.3	56.7	49.4	13.32	11.62
Virginia.....	6	12	4.7	58.3	46.5	11.66	9.28
Wisconsin.....	2	3	6.0	60.2	58.8	22.45	21.95
Other States.....	3	7	6.0	60.0	60.0	15.26	15.26
Total.....	105	196	5.5	59.6	54.8	14.30	13.15

TABLE C.—AVERAGE NUMBER OF DAYS STARTS WERE MADE, AVERAGE FULL-TIME HOURS AND EARNINGS PER WEEK, AND AVERAGE ACTUAL HOURS WORKED AND EARNINGS PER PAY PERIOD, BY OCCUPATIONS, IN EACH STATE, 1921—Continued.**ONE WEEK PAY ROLLS—Continued.**

Occupation and State.	Number of—		Average number of days starts were made.	Average full-time hours per week.	Average hours worked per pay period.	Average full-time earnings per week.	Average actual earnings per pay period.
	Establishments.	Employees.					
Sawyers, gang:							
Florida.....	5	6	6.0	60.0	61.7	\$24.36	\$25.03
Louisiana.....	4	7	6.3	60.0	64.8	30.78	33.23
Mississippi.....	4	6	5.8	60.0	57.5	25.20	24.15
Other States.....	7	9	5.3	60.0	56.2	24.72	23.17
Total.....	20	28	5.8	60.0	59.8	26.40	26.29
Sawyers, resaw:							
Alabama.....	2	2	6.5	60.0	69.0	20.64	23.75
Florida.....	3	5	5.8	60.0	58.0	18.30	17.70
Louisiana.....	3	7	6.1	60.0	62.7	15.42	16.09
Maine.....	9	12	6.1	58.7	60.3	22.25	22.89
Minnesota.....	2	7	6.0	60.0	58.9	24.12	23.69
Mississippi.....	2	3	6.0	60.0	63.5	22.08	23.38
North Carolina.....	10	12	5.6	60.8	57.0	15.56	14.60
South Carolina.....	6	7	5.4	60.0	56.1	16.20	15.16
Tennessee.....	3	3	4.7	55.3	43.3	15.37	12.07
Virginia.....	3	5	5.4	58.0	53.0	13.63	12.47
Wisconsin.....	2	3	6.0	60.2	58.8	23.00	22.47
Other States.....	2	2	6.0	60.0	61.9	21.30	21.95
Total.....	47	68	5.8	59.6	58.3	18.77	18.39
Edgemen:							
Alabama.....	5	10	5.8	61.2	59.8	18.36	17.95
Florida.....	10	24	5.9	60.3	59.9	22.01	21.88
Georgia.....	14	15	5.8	61.4	60.1	18.79	18.39
Louisiana.....	11	52	5.8	60.0	59.2	20.46	20.17
Maine.....	14	22	5.9	57.5	56.4	26.05	25.57
Minnesota.....	2	18	5.2	60.0	52.3	30.30	26.43
Mississippi.....	5	22	5.3	60.0	52.7	18.90	16.62
North Carolina.....	13	21	5.8	60.5	57.8	13.49	12.91
South Carolina.....	8	15	5.8	59.7	57.5	16.42	15.83
Tennessee.....	12	13	5.5	57.3	52.8	20.74	18.31
Virginia.....	6	13	4.4	58.5	41.7	14.16	10.08
Wisconsin.....	2	4	5.5	60.3	53.1	25.39	22.35
Other States.....	3	6	6.2	60.0	61.7	21.72	22.33
Total.....	105	235	5.6	59.7	56.4	20.48	19.34
Trimmer operators:							
Alabama.....	5	8	5.8	61.5	57.7	15.87	14.89
Florida.....	10	17	5.8	60.4	58.4	16.97	16.43
Georgia.....	13	16	5.7	60.9	58.0	11.63	11.08
Louisiana.....	11	17	5.8	60.0	60.3	17.10	17.18
Maine.....	14	24	5.9	57.5	55.9	21.56	20.96
Minnesota.....	2	18	5.6	60.0	55.6	25.74	23.82
Mississippi.....	5	9	6.0	60.0	61.2	16.14	16.46
North Carolina.....	13	17	5.6	60.4	58.1	13.20	12.79
South Carolina.....	8	12	5.4	59.6	52.7	12.22	10.83
Tennessee.....	13	20	5.6	58.6	52.4	14.15	13.08
Virginia.....	6	10	5.0	58.0	49.8	12.76	10.97
Wisconsin.....	2	2	5.5	60.3	53.3	23.28	20.58
Other States.....	3	5	5.8	60.0	57.9	17.22	16.64
Total.....	105	175	5.7	59.4	56.4	16.81	15.95
Machine feeders, planing:							
Alabama.....	4	15	5.6	61.6	58.3	13.31	12.62
Louisiana.....	11	94	5.6	60.0	55.1	14.28	13.14
Maine.....	11	17	6.0	58.2	57.4	21.71	21.43
Minnesota.....	2	14	5.4	60.0	48.7	25.44	20.66
Mississippi.....	5	38	5.6	60.0	55.5	11.88	10.97
North Carolina.....	7	10	5.2	60.6	51.5	14.67	12.44
South Carolina.....	2	4	4.5	58.8	43.3	8.64	6.36
Virginia.....	3	12	5.8	60.6	58.3	13.64	13.15
Other States.....	1	15	5.7	60.0	57.4	16.74	16.01
Total.....	46	219	5.6	60.0	55.1	15.12	13.89

24 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE C.—AVERAGE NUMBER OF DAYS STARTS WERE MADE, AVERAGE FULL-TIME HOURS AND EARNINGS PER WEEK, AND AVERAGE ACTUAL HOURS WORKED AND EARNINGS PER PAY PERIOD, BY OCCUPATIONS, IN EACH STATE, 1921—Continued.

ONE WEEK PAY ROLLS—Concluded.

Occupation and State.	Number of—		Average number of days starts were made.	Average full-time hours per week.	Average hours worked per pay period.	Average full-time earnings per week.	Average actual earnings per pay period.
	Establishments.	Employees.					
Laborers:							
Alabama.....	5	351	5.5	61.7	55.2	\$9.26	\$8.28
Florida.....	10	972	5.2	60.2	51.7	10.23	8.77
Georgia.....	14	665	6.4	60.7	54.2	7.95	7.13
Louisiana.....	11	2,195	5.2	60.4	52.5	11.84	10.27
Maine.....	14	416	5.6	58.2	53.8	18.10	16.72
Minnesota.....	2	373	5.1	60.9	49.6	21.68	17.70
Mississippi.....	5	1,003	5.3	60.0	52.0	11.64	10.07
North Carolina.....	13	814	5.0	60.7	49.8	9.53	7.83
South Carolina.....	8	765	5.2	59.8	51.2	8.91	7.64
Tennessee.....	13	449	5.2	57.3	48.9	11.57	9.89
Virginia.....	6	463	5.1	59.9	50.9	10.12	8.60
Wisconsin.....	2	139	5.8	60.2	55.9	19.50	18.10
Other States.....	3	359	5.3	60.0	52.7	13.56	11.89
Total.....	106	8,964	5.3	60.1	52.7	11.42	10.02
Other employees:							
Alabama.....	5	134	6.1	67.4	65.8	15.43	15.06
Florida.....	10	351	6.0	63.6	61.5	21.50	20.75
Georgia.....	14	254	6.0	65.0	63.5	16.51	16.11
Louisiana.....	11	931	5.9	62.3	60.7	20.75	20.18
Maine.....	14	416	5.9	59.5	57.9	22.97	22.35
Minnesota.....	2	302	5.7	61.8	57.2	28.80	26.63
Mississippi.....	5	388	5.9	62.6	61.5	17.03	16.73
North Carolina.....	13	416	5.6	63.3	58.1	16.27	14.94
South Carolina.....	8	322	5.9	63.1	59.2	17.92	16.78
Tennessee.....	13	163	5.9	60.4	58.6	19.39	18.78
Virginia.....	6	216	5.7	62.5	59.0	14.88	14.08
Wisconsin.....	2	57	5.9	63.7	58.3	22.87	20.96
Other States.....	3	158	5.9	63.8	61.4	19.91	19.15
Total.....	106	4,108	5.9	62.6	60.1	19.78	18.98

TWO WEEKS OR HALF-MONTH PAY ROLLS.

Doggers:							
Alabama.....	4	13	11.1	60.0	111.3	12.12	22.54
Arkansas.....	15	62	11.2	59.4	108.9	14.73	26.98
California.....	6	23	10.4	59.0	106.8	24.72	44.79
Florida.....	3	12	11.6	60.0	113.3	11.40	21.53
Georgia.....	2	10	10.7	61.2	116.1	9.06	17.19
Louisiana.....	4	27	11.3	60.0	113.4	13.26	25.10
Michigan.....	12	22	10.7	60.0	103.9	21.90	37.94
Mississippi.....	3	23	10.0	60.0	99.2	12.36	20.48
Montana.....	2	3	12.0	60.0	124.7	22.08	45.92
Oregon.....	5	11	12.5	48.0	100.5	23.62	49.39
Pennsylvania.....	3	4	12.3	60.0	120.5	21.60	43.36
Tennessee.....	6	13	11.5	59.6	111.2	16.15	30.13
Texas.....	6	36	11.1	59.2	109.3	15.87	29.23
Virginia.....	2	5	8.0	60.0	74.5	11.28	14.02
Washington.....	4	14	11.4	48.0	91.0	21.22	40.25
Wisconsin.....	10	24	9.4	58.2	86.6	18.62	27.71
Other States.....	2	3	13.7	52.0	119.3	19.86	45.59
Total.....	89	305	10.9	58.5	105.7	16.61	29.98
Setters:							
Alabama.....	4	7	12.6	60.0	128.1	19.32	41.30
Arkansas.....	15	30	12.8	59.6	122.9	19.61	40.39
California.....	6	17	12.2	58.6	118.2	29.07	58.58
Florida.....	3	5	13.0	60.0	132.5	17.10	37.78
Georgia.....	3	6	11.0	62.0	119.1	12.71	24.38
Idaho.....	2	9	12.9	48.0	103.6	25.25	54.48
Louisiana.....	4	13	10.8	60.0	107.1	19.32	34.49
Michigan.....	13	25	10.9	60.0	105.9	26.04	45.93
Minnesota.....	4	36	11.7	60.0	115.3	27.42	52.71
Mississippi.....	3	9	10.6	60.0	104.1	17.04	29.56
Montana.....	4	23	11.7	55.6	110.2	29.30	58.08
Oregon.....	5	11	12.5	48.0	100.2	26.88	56.12

TABLE C.—AVERAGE NUMBER OF DAYS STARTS WERE MADE, AVERAGE FULL-TIME HOURS AND EARNINGS PER WEEK, AND AVERAGE ACTUAL HOURS WORKED AND EARNINGS PER PAY PERIOD, BY OCCUPATIONS, IN EACH STATE, 1921—Continued.

TWO WEEKS OR HALF-MONTH PAY ROLLS—Continued.

Occupation and State.	Number of—		Average number of days starts were made.	Average full-time hours per week.	Average hours worked per pay period.	Average full-time earnings per week.	Average actual earnings per pay period.
	Establishments.	Employees.					
Setters—Concluded.							
Pennsylvania.....	3	8	11.9	60.0	121.6	\$25.38	\$51.50
Tennessee.....	6	10	10.9	59.5	103.5	21.24	36.99
Texas.....	6	21	10.8	59.3	107.3	19.09	34.53
Virginia.....	2	3	12.3	60.0	120.2	14.28	28.55
Washington.....	4	8	12.3	48.0	97.1	25.20	50.96
Wisconsin.....	10	22	10.7	58.5	102.8	24.16	42.51
Other States.....	1	1	12.0	60.0	116.0	27.00	52.20
Total.....	98	264	11.7	58.1	111.5	23.70	45.54
Sawyers, head, band:							
Alabama.....	3	6	14.0	60.0	141.0	41.28	97.05
Arkansas.....	14	27	11.8	60.0	121.8	47.46	96.37
California.....	6	16	12.1	58.5	116.8	50.72	101.26
Florida.....	2	4	13.0	60.0	131.8	51.72	113.55
Idaho.....	2	4	13.0	48.0	104.0	42.96	93.08
Louisiana.....	4	12	12.0	60.0	121.1	46.26	93.41
Michigan.....	12	23	11.4	60.0	110.3	41.16	75.61
Minnesota.....	4	18	11.7	60.0	116.3	42.66	82.60
Mississippi.....	3	8	12.8	60.0	128.3	48.00	102.60
Montana.....	4	15	11.3	54.4	104.4	49.18	94.42
Oregon.....	5	8	12.6	48.0	100.2	56.35	117.68
Pennsylvania.....	3	6	13.2	60.0	128.7	36.78	78.84
Tennessee.....	6	9	13.7	59.4	134.8	34.33	77.87
Texas.....	6	16	11.9	59.1	118.6	45.63	91.57
Virginia.....	2	3	12.7	60.0	117.5	27.00	52.82
Washington.....	4	8	12.3	48.0	97.6	48.14	97.93
Wisconsin.....	10	18	9.8	58.5	92.6	40.13	63.53
Other States.....	2	5	12.2	60.0	134.8	41.04	92.26
Total.....	92	206	11.9	58.1	115.4	44.80	89.04
Sawyers, head, circular:							
Georgia.....	2	2	10.5	66.0	114.0	27.39	47.28
Michigan.....	2	2	8.0	60.0	76.3	43.26	54.94
Texas.....	2	2	12.0	60.0	117.5	49.98	97.88
Other States.....	6	8	12.5	54.9	112.7	42.77	87.75
Total.....	12	14	11.5	57.9	108.3	42.09	78.73
Saw tailors, on head saw:							
Alabama.....	4	6	12.5	60.0	123.6	13.62	28.10
Arkansas.....	15	27	11.9	59.6	121.5	14.78	30.10
California.....	6	19	13.0	58.7	124.7	24.60	52.31
Florida.....	3	5	12.6	60.0	126.1	10.74	22.52
Georgia.....	2	5	11.4	61.2	126.0	8.45	17.36
Idaho.....	2	5	10.4	48.0	85.1	21.07	37.36
Louisiana.....	4	11	12.3	60.0	125.0	12.84	26.74
Michigan.....	13	24	11.2	60.0	107.7	20.61	37.08
Minnesota.....	4	19	10.3	60.0	101.5	21.36	36.13
Mississippi.....	3	12	7.9	60.0	77.9	11.40	14.78
Montana.....	4	12	12.4	56.0	114.5	23.46	47.97
Oregon.....	5	10	10.7	48.0	86.0	23.57	42.25
Pennsylvania.....	3	5	13.2	60.0	133.8	21.18	47.23
Tennessee.....	6	9	12.7	58.9	117.2	15.84	31.48
Texas.....	6	18	10.7	59.2	104.1	13.62	23.92
Virginia.....	2	3	11.3	60.0	109.3	11.22	20.39
Washington.....	4	8	12.5	48.0	99.8	20.78	43.15
Wisconsin.....	10	21	9.3	58.5	87.4	19.77	29.55
Other States.....	1	1	13.0	60.0	130.0	16.20	35.10
Total.....	97	220	11.3	58.1	108.3	18.07	33.72
Sawyers, gang:							
Arkansas.....	2	3	11.7	60.0	121.6	22.08	44.70
Michigan.....	2	2	12.0	60.0	119.7	25.50	50.84
Oregon.....	2	4	12.8	48.0	106.3	30.53	67.58
Texas.....	2	2	16.0	60.0	163.5	34.56	94.10
Washington.....	3	4	12.0	48.0	95.5	25.63	51.02
Wisconsin.....	3	3	8.3	58.3	80.0	26.41	36.25
Other States.....	7	9	13.2	59.3	126.5	23.84	50.82
Total.....	21	27	12.4	56.0	115.4	26.32	54.24

TABLE C.—AVERAGE NUMBER OF DAYS STARTS WERE MADE, AVERAGE FULL-TIME HOURS AND EARNINGS PER WEEK, AND AVERAGE ACTUAL HOURS WORKED AND EARNINGS PER PAY PERIOD, BY OCCUPATIONS, IN EACH STATE, 1921.—Continued.

TWO WEEKS OR HALF-MONTH PAY ROLLS—Continued.

Occupation and State.	Number of—		Average number of days starts were made.	Average full-time hours per week.	Average hours worked per pay period.	Average full-time earnings per week.	Average actual earnings per pay period.
	Establishments.	Employees.					
Sawyers, resaw:							
Alabama.....	3	3	12.7	60.0	126.8	\$24.54	\$51.82
Arkansas.....	9	9	13.0	58.7	132.2	21.43	48.20
California.....	5	11	11.6	58.9	112.3	28.21	53.76
Florida.....	2	2	13.0	60.0	128.0	16.50	35.25
Michigan.....	8	11	11.5	60.0	113.0	25.20	47.46
Minnesota.....	4	7	12.4	60.0	123.6	24.60	50.73
Oregon.....	4	8	9.6	48.0	77.4	31.06	50.10
Tennessee.....	2	2	13.0	60.0	119.2	20.22	40.21
Washington.....	4	7	12.7	48.0	102.9	25.44	54.54
Wisconsin.....	9	14	11.2	58.0	105.9	23.84	43.50
Other States.....	6	9	12.3	58.0	119.7	21.11	43.57
Total.....	56	83	11.8	57.0	112.1	24.45	48.10
Edgermen:							
Alabama.....	4	8	13.1	60.0	129.6	20.34	43.94
Arkansas.....	15	43	12.5	59.7	124.5	20.42	42.51
California.....	6	20	12.2	58.2	113.5	34.75	67.75
Florida.....	3	6	13.0	60.0	129.5	16.86	36.37
Georgia.....	3	7	11.3	62.6	124.3	13.83	27.47
Idaho.....	2	6	12.5	48.0	100.0	26.40	55.00
Louisiana.....	4	14	11.4	60.0	114.3	21.18	40.28
Michigan.....	13	26	11.0	60.0	107.2	25.26	45.10
Minnesota.....	4	27	11.7	60.0	118.2	26.28	51.81
Mississippi.....	3	16	11.6	60.0	116.4	15.42	29.87
Montana.....	4	14	11.9	55.7	110.5	30.47	60.46
Oregon.....	5	9	12.6	48.0	100.9	45.50	95.63
Pennsylvania.....	3	6	11.0	60.0	107.0	25.20	44.92
Tennessee.....	6	9	12.3	59.4	120.4	22.39	45.35
Texas.....	6	19	11.6	59.2	116.1	21.61	42.41
Virginia.....	2	4	9.0	60.0	85.0	14.22	20.16
Washington.....	4	12	12.0	48.0	86.8	31.15	56.36
Wisconsin.....	10	32	9.9	58.4	94.8	23.71	38.51
Other States.....	1	1	12.0	60.0	122.0	24.00	48.80
Total.....	98	279	11.7	58.3	112.1	24.43	47.01
Trimmer operators:							
Alabama.....	4	4	11.8	60.0	118.5	17.88	35.36
Arkansas.....	15	22	12.7	59.5	124.6	16.90	35.41
California.....	6	21	13.2	57.7	123.1	28.10	60.02
Florida.....	3	5	11.6	60.0	120.9	12.78	25.72
Georgia.....	2	5	10.2	63.6	111.2	10.68	18.71
Idaho.....	2	9	11.2	48.0	89.8	21.07	39.44
Louisiana.....	4	5	13.0	60.0	133.4	17.88	39.72
Michigan.....	13	22	10.9	60.0	105.0	22.92	40.08
Minnesota.....	4	14	12.1	60.0	120.9	24.30	48.94
Mississippi.....	3	6	10.8	60.0	108.5	12.66	22.94
Montana.....	4	10	12.4	54.6	112.4	24.52	50.51
Oregon.....	5	8	12.3	48.0	98.4	29.90	61.32
Pennsylvania.....	3	9	11.8	60.0	117.8	20.52	40.28
Tennessee.....	6	6	12.0	59.2	117.0	18.06	35.64
Texas.....	6	10	13.6	59.3	137.6	18.74	43.53
Virginia.....	2	3	11.3	60.0	106.4	11.70	20.70
Washington.....	4	11	8.6	48.0	68.8	26.93	38.61
Wisconsin.....	10	15	10.7	58.9	102.9	21.79	38.12
Other States.....	1	1	13.0	60.0	130.0	18.00	39.00
Total.....	97	186	11.8	57.5	112.3	21.39	41.75
Machine feeders, planing:							
Arkansas.....	12	99	11.5	59.5	112.3	14.40	27.11
California.....	4	5	11.8	57.6	117.1	26.50	53.86
Idaho.....	2	16	11.8	48.0	94.1	19.68	38.60
Louisiana.....	4	27	11.1	60.0	112.6	13.02	24.45
Minnesota.....	4	23	12.0	60.0	120.2	21.42	42.88
Mississippi.....	3	18	12.6	60.0	122.9	11.40	23.32
Montana.....	4	20	12.2	54.0	110.0	22.36	45.52
Oregon.....	5	36	11.9	48.0	96.4	24.10	48.37
Pennsylvania.....	3	5	12.5	60.0	120.8	21.66	43.59
Tennessee.....	2	8	13.6	60.0	135.2	14.10	31.80
Texas.....	6	43	11.7	60.0	114.3	15.66	29.88
Washington.....	4	22	10.7	48.0	85.5	21.46	38.23
Other States.....	2	6	11.7	60.0	113.0	14.04	26.44
Total.....	55	328	11.7	56.7	109.9	17.35	33.68

TABLE C.—AVERAGE NUMBER OF DAYS STARTS WERE MADE, AVERAGE FULL-TIME HOURS AND EARNINGS PER WEEK, AND AVERAGE ACTUAL HOURS WORKED AND EARNINGS PER PAY PERIOD, BY OCCUPATIONS, IN EACH STATE, 1921—Continued.

TWO WEEKS OR HALF-MONTH PAY ROLLS—Concluded.

Occupation and State.	Number of—		Average number of days starts were made.	Average full-time hours per week.	Average hours worked per pay period.	Average full-time earnings per week.	Average actual earnings per pay period.
	Estab-lish-ments.	Em-ployees.					
Laborers:							
Alabama.....	4	287	10.3	60.0	102.9	\$9.48	\$16.25
Arkansas.....	15	1,988	11.1	59.7	103.7	12.95	22.93
California.....	6	643	11.0	53.4	105.9	22.08	40.05
Florida.....	3	330	10.5	60.0	104.3	9.18	15.99
Georgia.....	3	184	7.3	61.1	77.8	7.52	9.56
Idaho.....	2	217	11.9	48.0	95.6	19.68	39.17
Louisiana.....	4	678	11.4	60.2	114.3	11.62	22.01
Michigan.....	13	548	9.7	60.1	94.2	18.51	29.03
Minnesota.....	4	764	10.6	60.0	103.2	17.94	30.83
Mississippi.....	3	541	11.2	60.3	111.1	9.59	17.62
Montana.....	4	421	11.1	54.0	99.0	22.41	41.11
Oregon.....	5	764	11.9	48.0	94.0	22.22	43.58
Pennsylvania.....	3	173	11.6	60.0	116.0	18.54	35.78
Tennessee.....	6	252	10.5	59.6	102.0	13.89	23.78
Texas.....	6	309	10.9	59.8	106.5	13.87	24.71
Virginia.....	2	65	10.0	60.0	98.6	10.98	18.09
Washington.....	4	563	10.9	48.0	87.6	20.30	37.03
Wisconsin.....	10	874	10.0	58.3	95.0	17.55	28.63
Other States.....	1	47	8.7	60.0	82.7	12.66	17.47
Total.....	98	10,148	10.8	57.6	101.8	15.96	28.19
Other employees:							
Alabama.....	4	97	12.7	66.9	132.9	18.40	36.54
Arkansas.....	15	841	12.5	62.3	125.7	18.88	38.04
California.....	6	381	12.0	61.9	120.9	29.15	56.99
Florida.....	3	115	13.3	62.5	133.1	17.50	37.83
Georgia.....	3	91	10.1	64.5	117.9	13.74	25.16
Idaho.....	2	125	12.9	48.9	104.6	14.84	53.13
Louisiana.....	4	253	12.8	63.5	132.9	18.54	38.73
Michigan.....	13	285	11.7	63.4	118.9	22.32	41.80
Minnesota.....	4	513	12.1	62.0	120.4	26.04	50.58
Mississippi.....	3	244	16.5	63.4	127.5	16.04	32.26
Montana.....	4	288	12.3	58.1	116.7	27.37	54.98
Oregon.....	5	278	12.8	49.1	102.5	29.21	61.01
Pennsylvania.....	3	61	13.0	62.8	132.4	23.30	49.15
Tennessee.....	6	141	11.7	61.8	116.2	18.05	33.94
Texas.....	6	384	12.6	63.5	130.6	20.19	41.57
Virginia.....	2	33	11.4	61.5	114.7	14.70	27.35
Washington.....	4	214	12.4	49.9	100.7	24.55	49.60
Wisconsin.....	10	316	11.1	61.7	111.1	22.58	40.67
Other States.....	1	27	12.0	61.1	121.2	20.35	40.34
Total.....	98	4,687	12.4	60.6	120.5	22.30	44.39

MONTHLY PAY ROLL.

Doggers:							
Alabama.....	8	22	16.7	60.8	167.1	11.55	31.71
Arkansas.....	2	9	23.8	60.0	252.2	14.88	62.58
California.....	8	47	20.8	54.5	184.5	26.11	88.32
Florida.....	3	9	22.2	63.3	238.4	10.95	41.16
Mississippi.....	4	31	21.2	60.0	209.4	13.68	47.75
North Carolina.....	7	15	19.8	68.0	191.1	18.02	50.72
Oregon.....	5	23	17.7	48.0	138.5	20.93	60.36
Virginia.....	2	2	18.0	60.0	180.0	18.18	54.60
Washington.....	13	62	18.4	48.0	147.1	21.02	64.47
West Virginia.....	13	20	20.6	60.0	198.5	20.34	67.34
Wisconsin.....	4	7	9.3	60.0	91.3	19.92	30.35
Other States.....	3	8	15.1	54.0	138.9	22.95	58.99
Total.....	72	255	19.2	55.5	174.5	19.37	60.98
Setters:							
Alabama.....	8	16	21.6	61.5	218.2	15.44	54.79
Arkansas.....	2	5	23.6	60.0	244.1	19.08	77.69
California.....	9	28	22.3	54.4	198.2	30.90	112.66
Florida.....	3	4	25.5	63.0	242.7	15.06	58.12
Idaho.....	3	27	14.8	48.0	116.0	24.29	58.70
Mississippi.....	4	14	24.2	60.0	233.7	21.06	82.02
North Carolina.....	7	12	21.8	60.0	211.3	22.14	78.00
Oregon.....	5	13	19.2	48.0	152.2	25.44	80.64
Virginia.....	2	2	17.5	60.0	175.4	21.72	63.50
Washington.....	13	32	20.5	48.0	162.5	26.26	88.99
West Virginia.....	13	24	20.1	60.0	192.5	24.60	78.91

28 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE C.—AVERAGE NUMBER OF DAYS STARTS WERE MADE, AVERAGE FULL-TIME HOURS AND EARNINGS PER WEEK, AND AVERAGE ACTUAL HOURS WORKED AND EARNINGS PER PAY PERIOD, BY OCCUPATIONS, IN EACH STATE, 1921—Continued.

MONTHLY PAY ROLL—Continued.

Occupation and State.	Number of—		Average number of days starts were made.	Average full-time hours per week.	Average hours worked per pay period.	Average full-time earnings per week.	Average actual earnings per pay period.
	Establishments.	Employees.					
Setters—Concluded.							
Wisconsin.....	4	9	22.2	60.0	211.8	\$23.52	\$82.95
Other States.....	2	4	19.0	60.0	188.5	34.56	108.60
Total.....	75	190	20.5	54.8	184.1	24.17	81.15
Sawyers, head, band:							
Alabama.....	5	10	23.3	60.4	203.3	45.60	153.42
Arkansas.....	2	4	26.0	60.0	277.8	46.26	214.18
California.....	9	28	22.9	53.8	203.1	46.43	175.23
Idaho.....	3	10	21.0	48.0	166.8	39.22	136.32
Mississippi.....	4	13	22.9	60.0	226.4	48.12	181.70
North Carolina.....	7	9	24.2	60.0	236.3	39.48	155.48
Oregon.....	5	12	21.0	48.0	169.9	51.79	183.29
Virginia.....	2	2	18.0	60.0	180.5	41.28	124.25
Washington.....	11	21	24.4	48.0	193.9	50.54	204.20
West Virginia.....	13	24	20.3	60.0	197.5	39.48	130.00
Wisconsin.....	4	7	21.1	60.0	207.9	46.68	161.75
Other States.....	3	6	25.0	63.0	217.2	52.04	179.31
Total.....	68	146	22.5	55.4	202.3	45.93	167.71
Sawyers, head, circular:							
Alabama.....	3	3	25.7	63.3	277.3	23.10	101.11
Florida.....	2	2	25.5	60.0	255.0	40.62	172.75
Washington.....	3	3	21.7	48.0	170.8	48.43	172.33
Total.....	8	8	24.1	56.8	231.8	35.73	145.73
Saw tailors:							
Alabama.....	7	9	23.9	60.9	240.2	10.17	40.10
Arkansas.....	2	5	20.6	60.0	212.7	14.10	50.00
California.....	9	30	22.0	53.6	193.6	26.32	95.05
Florida.....	3	4	21.8	63.0	218.4	10.33	35.81
Idaho.....	3	13	14.4	48.0	139.1	19.25	55.78
Mississippi.....	4	16	17.5	60.0	171.5	14.52	41.46
North Carolina.....	7	10	21.3	60.0	208.0	16.14	56.02
Oregon.....	5	13	24.0	48.0	188.9	20.59	81.00
Virginia.....	2	2	15.0	60.0	147.0	16.74	41.04
Washington.....	13	33	19.6	48.0	156.4	22.66	73.74
West Virginia.....	13	23	19.0	60.0	182.7	20.28	61.70
Wisconsin.....	4	9	15.6	60.0	152.7	19.98	50.85
Other States.....	2	3	23.0	60.0	230.3	24.12	92.61
Total.....	74	170	19.9	54.8	180.7	20.11	66.34
Sawyers, gang:							
Alabama.....	5	8	24.9	64.3	264.7	24.76	101.83
Oregon.....	4	6	21.0	48.0	174.1	30.34	110.09
Washington.....	7	9	26.4	48.0	214.2	30.86	137.75
Other States.....	4	4	23.3	58.5	222.4	18.19	69.06
Total.....	20	27	24.3	54.4	221.5	27.20	110.78
Sawyers, resaw:							
California.....	7	11	25.3	54.7	214.6	29.65	116.30
Mississippi.....	3	3	29.0	60.0	277.0	27.54	127.03
North Carolina.....	3	4	20.5	60.0	199.5	19.80	65.93
Oregon.....	5	16	20.0	48.0	157.4	26.02	85.40
Washington.....	13	37	19.8	48.0	159.3	28.27	93.75
West Virginia.....	4	4	21.5	60.0	217.6	24.90	90.32
Wisconsin.....	4	9	11.0	60.0	105.7	21.96	38.69
Other States.....	3	4	16.8	54.0	148.7	27.65	76.16
Total.....	42	88	19.9	51.8	168.4	27.20	88.33
Edgermen:							
Alabama.....	8	12	21.1	61.2	214.1	18.30	64.00
Arkansas.....	2	4	23.5	60.0	247.5	22.02	90.76
California.....	9	27	25.0	54.4	221.9	33.73	137.67
Florida.....	3	4	24.8	63.0	258.1	14.74	60.47
Idaho.....	3	19	13.9	48.0	122.3	24.82	63.16
Mississippi.....	4	18	21.9	60.0	214.8	20.64	73.98
North Carolina.....	7	11	19.4	60.0	189.1	24.06	75.84
Oregon.....	5	30	19.8	48.0	156.0	25.49	82.81

TABLE C.—AVERAGE NUMBER OF DAYS STARTS WERE MADE, AVERAGE FULL-TIME HOURS AND EARNINGS PER WEEK, AND AVERAGE ACTUAL HOURS WORKED AND EARNINGS PER PAY PERIOD, BY OCCUPATIONS, IN EACH STATE, 1921—Concluded.

MONTHLY PAY ROLL—Concluded.

Occupation and State.	Number of—		Average number of days starts were made.	Average full-time hours per week.	Average hours worked per pay period.	Average full-time earnings per week.	Average actual earnings per pay period.
	Establishments.	Employees.					
Edgemen—Concluded.							
Virginia.....	2	2	16.5	60.0	166.3	\$22.74	\$63.04
Washington.....	13	45	21.5	48.0	169.8	28.90	102.62
West Virginia.....	13	23	19.9	60.0	194.6	25.68	83.36
Wisconsin.....	4	14	16.5	60.0	161.5	22.68	61.01
Other States.....	2	4	25.0	60.0	284.6	29.10	120.59
Total.....	75	213	20.7	54.1	185.2	26.13	89.43
Trimmer operators:							
Alabama.....	8	15	22.9	61.2	229.7	13.53	50.71
Arkansas.....	2	2	23.0	60.0	235.8	14.16	55.58
California.....	9	17	26.1	54.1	229.2	27.75	117.54
Florida.....	3	3	27.3	62.0	272.4	11.04	45.62
Idaho.....	3	13	22.3	48.0	180.0	21.31	79.87
Mississippi.....	4	14	22.2	60.0	221.1	17.10	63.00
North Carolina.....	7	8	22.0	60.0	222.1	19.14	70.76
Oregon.....	5	16	20.2	48.0	159.2	24.67	81.96
Virginia.....	2	2	17.5	60.0	172.9	19.74	56.93
Washington.....	13	50	18.7	48.0	147.4	26.78	82.21
West Virginia.....	13	18	23.3	60.0	232.0	23.28	90.05
Wisconsin.....	4	8	18.1	60.0	176.8	23.34	68.81
Other States.....	2	3	23.7	60.0	235.4	25.80	101.28
Total.....	75	169	21.4	53.9	191.7	22.48	79.95
Machine feeders, planing:							
Alabama.....	5	45	22.6	60.4	212.2	12.14	42.58
Arkansas.....	2	11	24.6	60.0	243.6	14.22	57.67
California.....	6	14	24.1	54.0	210.9	26.08	101.91
Idaho.....	3	14	16.9	48.0	117.3	24.77	60.58
Mississippi.....	4	32	23.3	60.0	231.9	14.88	57.53
North Carolina.....	5	12	22.2	60.0	217.4	18.12	65.70
Oregon.....	3	15	20.1	48.0	159.3	23.28	77.34
Washington.....	13	126	20.8	48.0	165.1	21.94	75.40
West Virginia.....	6	14	20.2	60.0	202.3	17.82	59.98
Other States.....	1	1	13.0	60.0	130.0	22.20	48.10
Total.....	48	284	21.4	53.2	186.6	19.10	66.91
Laborers:							
Alabama.....	8	906	17.0	60.9	167.1	9.44	25.92
Arkansas.....	2	232	19.3	60.1	194.0	13.34	43.02
California.....	9	723	20.5	53.7	179.1	22.55	75.23
Florida.....	3	192	18.4	62.0	189.4	9.24	28.20
Idaho.....	3	403	14.4	48.1	116.5	19.96	48.27
Mississippi.....	4	843	18.8	60.0	185.7	11.28	34.83
North Carolina.....	7	423	17.3	60.0	169.5	14.16	40.01
Oregon.....	5	914	19.7	48.1	155.7	19.19	62.13
Virginia.....	2	89	12.7	60.0	121.6	16.74	33.91
Washington.....	13	2,978	18.7	48.0	148.5	19.44	60.08
West Virginia.....	13	575	19.7	60.0	192.2	20.04	64.23
Wisconsin.....	4	418	14.4	60.0	138.3	15.90	36.65
Other States.....	2	160	20.7	59.9	197.3	19.29	63.53
Total.....	75	8,856	18.4	53.8	161.8	17.27	51.96
Other employees:							
Alabama.....	8	261	23.9	65.3	237.1	16.39	59.61
Arkansas.....	2	88	24.5	62.2	253.2	17.48	71.22
California.....	9	524	23.7	55.8	220.1	30.36	119.78
Florida.....	3	77	23.1	66.1	246.9	14.61	54.66
Idaho.....	3	242	17.1	49.5	137.0	24.40	67.64
Mississippi.....	4	362	23.6	62.8	241.4	19.78	76.02
North Carolina.....	7	258	23.4	62.0	234.0	19.78	74.68
Oregon.....	5	365	23.3	50.1	191.5	25.00	95.50
Virginia.....	2	41	20.1	63.8	207.1	20.80	67.40
Washington.....	13	1,067	23.8	49.5	194.3	26.93	105.66
West Virginia.....	13	264	22.9	65.8	238.9	24.28	88.26
Wisconsin.....	4	166	20.5	62.6	207.7	22.91	76.06
Other States.....	2	52	22.2	62.0	222.1	25.92	92.76
Total.....	75	3,757	23.0	56.4	210.9	24.36	91.04

30 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921.

[h.=hour, d.=day, w.=week, m.=month.]

ARKANSAS.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Barn men.....	1	60	\$100.00 m.	\$0.385	Loader men.....	1	60	\$135.00 m.	\$0.519
	2	60	90.00 m.	.346		2	60	130.00 m.	.500
	4	60	85.00 m.	.327		4	60	5.00 d.	.500
	1	60	3.25 d.	.325		1	60	.50 h.	.500
	1	60	80.00 m.	.308		2	60	125.00 m.	.481
	1	60	(¹)	.302		3	60	120.00 m.	.452
	2	60	3.00 d.	.300		1	60	4.50 d.	.450
	1	60	.30 h.	.300		1	60	(¹)	.397
	1	60	(¹)	.294		3	60	3.55 d.	.355
	1	60	2.75 d.	.275		1	60	85.00 m.	.327
	1	60	.25 h.	.250	Night watchmen..	1	60	.25 h.	.250
	1	60	2.25 d.	.225	Pump men.....	1	60	.275 h.	.275
	1	60	2.00 d.	.200	Saw bosses.....	1	60	135.00 m.	.519
	1	60	.17 h.	.170		1	60	125.00 m.	.481
Blacksmiths.....	1	60	120.00 m.	.462		1	60	115.00 m.	.442
	1	60	4.50 d.	.450		1	60	100.00 m.	.385
	1	60	4.25 d.	.425	Saw filers.....	1	60	.40 h.	.400
	3	60	4.00 d.	.400		1	60	90.00 m.	.346
	3	60	.40 h.	.400		1	60	3.00 d.	.300
	1	60	.375 h.	.375	Sawyers.....	1	60	3.75 d.	.375
	3	60	3.50 d.	.350		2	60	3.50 d.	.350
	1	60	.325 h.	.325		1	60	3.25 d.	.325
	1	60	2.25 d.	.225		40	60	3.00 d.	.300
Blacksmiths' help- ers.....	1	60	.325 h.	.325		1	60	(¹)	.294
	1	60	.275 h.	.275		1	60	(¹)	.287
	1	60	.25 h.	.250		1	60	(¹)	.285
Carpenters.....	1	60	.325 h.	.325		6	60	2.75 d.	.275
	1	60	.30 h.	.300		2	60	2.50 d.	.250
	2	60	.275 h.	.275		1	60	(¹)	.244
	1	60	(¹)	.256	Scalers.....	1	60	2.25 d.	.225
	1	60	2.50 d.	.250		1	60	4.85 d.	.485
	1	60	2.00 d.	.200		1	60	125.00 m.	.481
Cooks, male.....	1	60	125.00 m.	.481		1	60	.40 h.	.400
Cooks, female.....	1	60	2 65.00 m.	2 .250		1	60	3.75 d.	.375
	1	60	15.00 w.	.250		1	60	95.00 m.	.365
Cooks' helpers, male.....	1	60	.15 h.	.150		1	48	.35 h.	.350
Cooks' helpers, female.....	1	60	22.00 m.	.285		2	60	.35 h.	.350
Cruisers.....	1	60	3.25 d.	.325		4	60	90.00 m.	.346
Cutters.....	12	60	3.00 d.	.300		1	60	85.00 m.	.327
Drivers.....	15	60	3.00 d.	.300		2	60	3.25 d.	.325
	8	60	.30 h.	.300		2	60	.325 h.	.325
	21	60	.275 h.	.275		2	60	81.25 m.	.312
	7	60	.25 h.	.250		2	60	.30 h.	.300
Drivers, ox.....	1	60	3.50 d.	.350		1	60	75.00 m.	.288
	1	60	.30 h.	.300		1	60	.275 h.	.275
	2	60	2.80 d.	.280		1	60	65.00 m.	.250
Engineers, loader..	1	60	110.00 m.	.423	Skidder men.....	3	60	2.25 d.	.225
Firemen.....	1	60	85.00 m.	.327		1	60	.40 h.	.400
	2	60	3.00 d.	.300	Surveyors.....	1	60	.25 h.	.250
	3	60	.275 h.	.275		1	60	150.00 m.	.577
	1	60	2.50 d.	.250	Swampers.....	1	60	5.00 d.	.500
	1	60	.17 h.	.170		1	60	3.00 d.	.300
Flunkies.....	2	60	.20 h.	.200		1	60	.30 h.	.300
Handy men.....	2	60	2.75 d.	.275		5	60	2.65 d.	.265
Haulers.....	1	60	3.50 d.	.350		41	60	2.50 d.	.250
	1	60	3.25 d.	.325		16	60	.25 h.	.250
	17	60	3.00 d.	.300		4	60	2.40 d.	.240
	3	60	2.75 d.	.275		6	60	2.25 d.	.225
Laborers.....	2	60	1.50 d.	.150		1	60	.225 h.	.225
Loaders.....	1	48	.275 h.	.275		26	60	2.15 d.	.215
	1	48	(¹)	.241		1	60	2.05 d.	.205
	1	60	.17 h.	.170		1	60	2.00 d.	.200
Loader men.....	1	60	6.25 d.	.625		68	60	.20 h.	.200
	1	60	6.15 d.	.615		9	60	.175 h.	.175
	1	60	150.00 m.	.577	Team bosses.....	1	60	(¹)	.172
	1	60	145.00 m.	.558		4	60	.217 h.	.170
	2	60	140.00 m.	.538		18	60	1.60 d.	.160
						2	60	115.00 m.	.442
						1	60	105.00 m.	.404
						3	60	100.00 m.	.385

¹ More than one rate.

² And board.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

ARKANSAS—Concluded.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Teamsters	2	60	\$0.35 h.	\$0.350	Tong hookers.....	15	60	\$3.00 d.	\$0.300
	2	60	.325 h.	.325		10	60	.30 h.	.300
	1	60	(1)	.317		1	60	(1)	.277
	29	60	3.00 d.	.300		4	60	2.75 d.	.275
	18	60	.30 h.	.300		20	60	.275 h.	.275
	1	60	(1)	.290		1	60	(1)	.269
	1	60	(1)	.281		1	60	(1)	.264
	1	60	(1)	.278		1	60	(1)	.255
	39	60	2.75 d.	.275		29	60	2.50 d.	.250
	34	60	.275 h.	.275		11	48	.25 h.	.250
	1	60	.25 h.	.250		6	60	.205 h.	.205
	7	60	2.25 d.	.225	Tractor drivers	2	60	110.00 m.	.423
	1	60	(1)	.210	Water boys.....	1	60	2.00 d.	.300
	6	60	2.00 d.	.200		2	60	.15 h.	.150
Tong hookers	5	60	3.25 d.	.325		1	48	.125 h.	.125
	5	60	.325 h.	.325	Woods checkers. ...	1	60	65.00 m.	.250
	1	60	(1)	.309					

CALIFORNIA.

Adz skids.....	1	54	\$4.55 d.	\$0.506	Blacksmiths' help- ers.....	1	48	\$0.625 h.	\$0.625
Auto mechanics...	1	48	.625 h.	.625		1	60	3.60 h.	3.600
Ax grinders.....	1	54	110.00 m.	.470		1	54	.60 h.	.600
	1	48	90.00 m.	.433		1	54	4.95 d.	.550
Ax men.....	1	54	.60 h.	.600		1	63	.50 h.	.500
	1	54	.525 h.	.525		1	60	3.47 h.	3.470
	2	54	.50 h.	.500		1	470	.45 h.	.450
	2	54	.475 h.	.475		4	60	3.45 h.	3.450
Barkers or peelers .	3	54	5.00 d.	.556		1	54	.45 h.	.450
	1	54	4.89 d.	.543		2	54	4.00 d.	.444
	3	54	4.81 d.	.534		4	60	3.41 h.	3.410
	14	60	2.50 h.	.500		1	54	3.50 d.	.389
	2	54	4.50 d.	.500		1	54	3.00 d.	.333
	1	60	3.49 h.	.3490	Bridge repairers...	1	54	.90 h.	.900
	11	60	3.48 h.	.3480		1	54	.60 h.	.600
	1	54	4.31 d.	.479	Brush cutters.....	1	60	3.40 h.	3.400
	6	60	3.47 h.	.3470		3	48	.40 h.	.400
	5	48	3.75 d.	.469	Buckers.....	1	60	(⁶)	.780
	68	60	3.45 h.	.3450		1	60	(⁶)	.778
	11	54	.44 h.	.440		1	48	(⁶)	.755
	5	54	.42 h.	.420		1	48	(⁶)	.738
	2	54	3.75 d.	.417		1	60	(⁶)	.726
	2	54	3.50 d.	.389		1	60	(⁶)	.693
Barn men.....	1	56	125.00 m.	.515		1	48	(⁶)	.693
	1	56	.40 h.	.400		1	48	(⁶)	.657
	4	63	100.00 m.	.366		1	48	(⁶)	.654
	1	63	95.00 m.	.348		1	48	(⁶)	.613
	1	63	90.00 m.	.330		1	48	(⁶)	.606
	1	63	70.00 m.	.257		1	48	(⁶)	.591
	1	56	100.00 m.	.231		1	48	(⁶)	.582
Blacksmiths.....	1	63	.75 h.	.750		1	48	(⁶)	.578
	1	54	.725 h.	.725		7	54	5.10 d.	.367
	1	48	.70 h.	.700		1	48	(⁶)	.365
	1	48	5.50 d.	.688		2	48	4.50 d.	.563
	1	60	3.68 h.	.3680		2	63	.55 h.	.550
	1	48	.675 h.	.675		1	48	(⁶)	.548
	2	60	6.50 d.	.650		1	48	(⁶)	.538
	1	54	5.70 d.	.633		2	54	4.81 d.	.534
	1	54	.625 h.	.625		5	48	4.25 d.	.531
	1	54	5.60 d.	.622		1	60	(⁶)	.528
	2	60	3.61 h.	.3610		4	54	5.25 h.	.525
	1	70	.55 h.	.550		10	54	4.70 d.	.522
	1	60	5.50 d.	.550		8	54	4.62 d.	.513
	1	54	4.81 d.	.534		1	48	(⁶)	.511
	1	54	4.75 d.	.528		13	63	.50 h.	.500
	1	70	.50 h.	.500					

¹ More than one rate.

² And board.

³ Time and one-half after 8 hours per day.

⁴ 7 days.

⁶ Piecework.

32 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

CALIFORNIA—Continued.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Buckers.....	3	54	\$4.50	d. \$0.500	Choker men, second	1	60	\$0.52	h. \$0.520
	1	54	.50	h. .500		4	60	3.49	h. 3.490
	1	48	.50	h. .500		2	60	.49	h. .490
	3	60	3.49	h. 3.490		4	60	3.45	h. 3.450
	7	54	.49	h. .490	Choker setters.....	1	470	.60	h. .600
	1	54	.475	h. .475		13	463	.55	h. .550
	1	60	(5)	.45		10	470	.50	h. .500
	1	60	.45	h. .450		27	48	.50	h. .500
	35	60	3.45	h. 3.450	Choker tenders, head.....	1	54	7.00	d. .778
	1	60	(5)	.44		2	54	.77	h. .770
	1	60	3.44	h. 3.440		1	54	6.80	d. .756
	7	60	3.43	h. 3.430		1	54	.65	h. .650
	6	60	3.42	h. 3.420	Choker tenders, second.....	2	54	6.00	d. .667
	7	54	2 3.75	d. 2.417		1	54	.57	n. .570
	1	60	3.41	h. 3.410	Chute bosses.....	1	463	.90	h. .900
	2	60	3.40	h. 3.400	Chute builders.....	1	54	.90	h. .900
	2	48	.40	h. .400		1	54	7.10	d. .789
	1	48	(5)	.386	Chute hewers.....	1	470	.70	h. .700
	1	48	(5)	.366		1	470	.50	h. .500
Buckers, head.....	1	48	165.00	m. 2.313	Chute repairers.....	1	463	.50	h. .500
	1	54	2120.00	m. 2.510		1	60	3.49	h. 3.490
Car builders.....	1	60	3.51	h. 3.510	Chute shovelers.....	1	54	.45	h. .450
Car repairers.....	1	60	3.45	h. 3.450	Cleaners.....	2	463	100.00	m. .366
Carpenters.....	2	54	.75	h. .750	Compressor men.....	1	54	.40	h. .400
	1	48	.75	h. .750	Couplers.....	1	54	4.80	d. .533
	1	48	140.00	m. .873		4	54	4.70	d. .522
	2	48	.65	h. .650	Crane men.....	1	463	150.00	m. .549
	1	54	5.40	d. .600	Deckers, head.....	6	48	.625	h. .500
	1	60	3.57	h. 3.570	Deckers, second.....	4	48	.50	h. .500
	8	60	3.55	h. 3.550	Donkey engine repairmen.....	1	48	200.00	m. .961
	1	60	3.49	h. 3.490		2	54	200.00	m. .855
Carpenters' helpers.	4	54	.55	h. .550		1	54	195.00	m. .833
Chain men.....	1	60	.48	h. .480		1	60	200.00	m. .712
Chain tenders.....	1	54	5.39	d. .599		1	60	3.66	h. 3.660
Chain tenders, head	1	54	6.00	d. .667		1	60	170.00	m. .654
Chasers.....	12	54	5.60	d. .622		1	60	.65	h. .650
	4	470	.60	d. .600		1	54	.59	h. .590
	1	463	.60	h. .600		1	54	24.62	d. 2.513
	1	54	.57	h. .570	Drivers, trucks.....	1	48	120.00	m. .577
	2	60	.52	h. .520		2	48	.50	h. .500
	3	54	.50	h. .500	Engineers.....	1	54	.80	h. .800
	2	48	.50	h. .500		1	54	.70	h. .700
	1	60	3.49	h. 3.490		3	48	5.50	d. .688
	1	54	2 4.25	d. 2.472		7	54	.65	h. .650
	1	60	3.46	h. 3.460		2	48	5.00	d. .625
	12	60	3.45	h. 3.450		1	54	.50	h. .500
	1	60	3.35	h. 3.350	Engineers, crane...	2	48	.80	h. .800
Checkers for buckers.....	3	48	117.00	m. .563	Engineers, donkey.	11	463	.65	h. .650
Choker men.....	1	60	6.25	d. .625		3	54	.575	d. .637
	1	60	6.00	d. .600		3	54	.56	h. .560
	1	463	.55	h. .550		1	54	5.00	d. .556
	1	60	3.55	h. 3.550		1	54	4.80	d. .533
	1	60	3.53	h. 3.530		2	54	4.60	d. .511
	14	60	2.51	h. 2.510		6	60	5.00	d. .500
	4	60	3.50	h. 3.500		1	54	4.60	d. .511
	9	60	3.49	h. 3.490		6	60	5.00	d. .500
	4	60	3.48	h. 3.480		1	54	3.475	h. 3.475
	3	60	3.47	h. 3.470		3	54	3.45	h. 3.450
	3	60	3.46	h. 3.460					
	5	60	3.45	h. 3.450					
	1	54	3.93	d. .437					
	2	60	3.43	h. 3.430					
	1	54	.42	h. .420					
	2	463	.40	h. .400					
	1	60	3.40	h. 3.400					
Choker men, head.	1	60	.82	h. .620					
	1	60	.58	h. .580					
	1	60	.56	h. .560					

² And board.

³ Time and one-half after 8 hours per day

⁴ 7 days.

⁵ Piecework.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

CALIFORNIA—Continued.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Engineers, donkey.	1	54	\$4.00 d.	\$0.444	Fallers	1	60	⁶ \$0.47 h.	\$0.649
Engineers, gas motor.....	1	48	133.00 m.	.639		1	60	⁶ .47 h.	.645
Engineers, gas saw.	1	48	.50 h.	.300		1	60	⁶ .47 h.	.643
Engineers, loader..	1	48	.80 h.	.800		1	60	⁶ .52 h.	.639
	2	54	4.95 d.	.550		1	60	⁶ .52 h.	.638
	1	60	5.25 d.	.525		1	60	⁶ .45 h.	.634
	1	60	³ .52 h.	³ .520		1	60	⁶ .52 h.	.628
	2	60	³ .50 h.	³ .500		3	54	⁶ .625 h.	.625
	1	60	5.00 d.	.500		9	48	5.00 d.	.625
Engineers, pump..	1	60	³ .35 h.	³ .350		1	60	⁶ .45 h.	.623
Engineers, skid....	5	48	.75 h.	.750		1	54	5.60 d.	.622
	1	60	5.50 d.	.550		1	60	⁶ .52 h.	.621
	1	60	³ .49 h.	³ .490		1	48	(⁶)	.619
Engineers, swing...	1	¹ 70	.55 h.	.550		1	60	⁶ .50 h.	.615
	2	54	4.95 d.	.550		1	60	⁶ .52 h.	.612
	1	54	4.80 d.	.533		1	48	(⁶)	.612
Engineers, winch..	1	¹ 70	.50 h.	.500		2	54	5.50 d.	.611
Engineers, yarder..	1	¹ 70	.45 h.	.450		2	60	⁶ .50 h.	.606
	1	60	7.00 d.	.700		2	⁴ 63	.60 h.	.600
	1	60	6.25 d.	.625		15	54	5.40 d.	.600
	3	54	5.60 d.	.622		2	54	.60 h.	.600
	1	54	5.45 d.	.606		1	54	5.39 d.	.599
	2	60	6.00 d.	.600		1	60	⁶ .45 h.	.597
	6	60	5.75 d.	.575		1	60	⁶ .47 h.	.595
	5	60	³ .560 h.	³ .560		1	60	⁶ .52 h.	.592
	3	¹ 70	.55 h.	.550		1	60	⁶ .52 h.	.582
	10	60	5.50 d.	.550		1	60	⁶ .45 h.	.580
	2	60	³ .52 h.	³ .520		2	54	.575 h.	.575
	5	60	³ .49 h.	³ .490		1	60	.52 h.	.572
Fallers.....	1	60	³ .45 h.	³ .450		2	48	(⁶)	.571
	2	60	⁶ .47 h.	.528		3	48	4.50 d.	.563
	1	⁴ 63	(⁶)	.813		1	60	⁶ .50 h.	.560
	1	60	⁶ .47 h.	.810		1	60	⁶ .45 h.	.558
	1	60	⁶ .47 h.	.802		1	48	(⁶)	.558
	1	60	⁶ .47 h.	.790		6	54	5.00 d.	.556
	1	60	⁶ .45 h.	.788		1	60	⁶ .50 h.	.553
	1	60	⁶ .47 h.	.787		1	60	⁶ .50 h.	.552
	1	60	⁶ .47 h.	.785		3	¹ 70	.55 h.	.550
	1	60	⁶ .45 h.	.772		15	⁴ 63	.55 h.	.550
	1	48	(⁶)	.770		1	54	.55 h.	.550
	1	60	⁶ .47 h.	.763		1	60	⁶ .47 h.	.549
	2	48	(⁶)	.757		5	54	4.81 d.	.534
	1	⁴ 63	(⁶)	.733		1	54	4.80 d.	.533
	1	60	⁶ .45 h.	.732		3	60	³ .52 h.	³ .520
	1	60	⁶ .47 h.	.751		1	60	⁶ .45 h.	.506
	2	48	(⁶)	.750		1	60	⁶ .45 h.	.504
	1	60	⁶ .47 h.	.747		3	¹ 70	.50 h.	.500
	1	60	⁶ .47 h.	.740		4	60	³ .50 h.	³ .500
	1	60	⁶ .45 h.	.740		4	48	.50 h.	.500
	1	60	⁶ .47 h.	.725		2	60	⁶ .45 h.	.495
	1	60	⁶ .47 h.	.720		12	54	³ .495 h.	.495
	1	60	.716 h.	.716		3	54	² 4.43 d.	² .492
	2	48	(⁶)	.703		17	60	³ .49 h.	³ .490
	1	60	⁶ .45 h.	.697		2	48	(⁶)	.476
	1	60	⁶ .47 h.	.691		25	60	³ .47 h.	³ .470
	1	60	⁶ .45 h.	.686		4	54	² 4.23 d.	² .470
	1	60	.683 h.	.683		2	48	(⁶)	.458
	1	60	⁶ .47 h.	.681		17	60	³ .45 h.	³ .450
	1	60	⁶ .45 h.	.678	Fallers, head.....	1	54	³ 175.00 m.	² .748
	1	60	⁶ .45 h.	.676		1	60	185.00 m.	.712
	1	60	⁶ .47 h.	.671		1	54	6.25 d.	.694
	1	60	⁶ .45 h.	.668		2	54	6.00 d.	.667
	1	60	⁶ .47 h.	.666		1	60	³ .66 h.	³ .660
	1	60	⁶ .47 h.	.663		4	60	150.00 m.	.577
	2	48	(⁶)	.663		1	54	.57 h.	.570
	1	48	5.30 d.	.663		10	54	³ .535 h.	.535
	1	60	.662 h.	.662	Fire guards.....	1	48	110.00 m.	.529
	1	60	⁶ .45 h.	.660		1	⁴ 63	.45 h.	.450
	1	60	⁶ .47 h.	.658		3	⁴ 63	.40 h.	.400
	9	48	5.25 d.	.656		7	48	³ .375 h.	.375

¹ And board.

² Time and one-half after 8 hours per day.

⁴ 7 days.

⁵ Piecework.

⁶ And bonus.

34 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

CALIFORNIA—Continued.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Firemen.....	1	54	\$0.55 h.	\$0.550	Laborers.....	1	63	\$0.45 h.	\$0.450
	1	54	.525 h.	.525		4	54	.45 h.	.450
	1	60	\$.52 h.	\$.520		1	60	\$.41 h.	\$.410
	1	60	5.00 d.	.500		16	63	.40 h.	.400
	1	54	4.50 d.	.500		1	54	3.60 d.	.400
	4	48	.50 h.	.500		10	54	.40 h.	.400
	1	60	\$.49 h.	\$.490		1	48	.40 h.	.400
	1	60	\$.48 h.	\$.480		1	63	.375 h.	.375
	1	60	\$.47 h.	\$.470		6	48	.375 h.	.375
	5	60	\$.46 h.	\$.460		5	63	.35 h.	.350
	6	470	.45 h.	.450		14	60	\$.35 h.	\$.350
	1	63	.45 h.	.450		3	54	.35 h.	.350
	6	54	4.05 d.	.450		5	48	2.75 d.	.344
	9	54	.45 h.	.450		1	48	.325 h.	.325
	3	60	\$.44 h.	\$.440		1	60	\$.31 h.	\$.310
	5	54	.44 h.	.440		9	470	.30 h.	.300
	2	48	3.50 d.	.438	Limbers.....	5	54	4.95 d.	.550
	8	60	\$.43 h.	\$.430		1	63	.50 h.	.500
	7	54	.425 h.	.425		9	63	.45 h.	.450
	1	60	\$.42 h.	\$.420		12	54	.45 h.	.450
	2	60	\$.41 h.	\$.410		3	470	.40 h.	.400
	3	470	.40 h.	.400		23	48	.40 h.	.400
	11	63	.40 h.	.400	Line men, head.....	1	54	.65 h.	.650
	1	60	\$.40 h.	.400	Line pullers.....	1	60	\$.61 h.	\$.610
	2	48	.40 h.	.400		1	54	5.00 d.	.556
	1	60	\$.39 h.	\$.390		1	60	5.25 d.	.525
	2	60	\$.38 h.	\$.380		1	54	.475 h.	.475
	1	54	3.35 d.	.372		3	48	3.75 d.	.469
	5	60	\$.37 h.	\$.370		21	60	\$.45 h.	\$.450
	3	60	\$.35 h.	\$.350		2	60	\$.42 h.	\$.420
	2	60	\$.34 h.	\$.340	Loaders.....	2	63	.75 h.	.750
	1	84	4.00 d.	.333		1	54	.70 h.	.700
	3	54	3.00 d.	.333		2	48	5.50 d.	.688
	1	60	\$.33 h.	\$.330		1	63	.65 h.	.650
Gophers.....	6	48	.40 h.	.400		1	54	.65 h.	.650
Handy men.....	1	60	\$.45 h.	\$.450		1	54	5.75 d.	.639
	1	60	\$.36 h.	\$.360		4	54	5.60 d.	.622
High climbers.....	1	63	.90 h.	.900		3	470	.60 h.	.600
	1	54	8.10 d.	.900		5	63	.60 h.	.600
	2	54	.90 h.	.900		8	54	.60 h.	.600
	1	470	.85 h.	.850		2	48	4.50 d.	.563
	1	63	.75 h.	.750		1	54	5.00 d.	.556
Hoist repairers.....	1	54	.50 h.	.500		4	470	.55 h.	.550
Hoist tenders.....	1	54	.775 h.	.775		2	60	\$.54 h.	\$.540
Hook tenders.....	1	48	232.00 m.	1.112		2	54	.53 h.	.530
	5	63	.90 h.	.900		3	60	\$.52 h.	\$.520
	2	54	8.10 d.	.900		11	60	\$.51 h.	\$.510
	2	54	.90 h.	.900		6	60	\$.50 h.	\$.500
	8	48	.875 h.	.875		10	60	\$.49 h.	\$.490
	3	470	.80 h.	.800		9	60	\$.48 h.	\$.480
	1	48	.80 h.	.800		8	60	\$.47 h.	\$.470
	1	48	6.30 d.	.788		1	54	4.20 d.	.467
	6	60	7.50 d.	.750		2	60	\$.46 h.	\$.460
	1	54	2.654 d.	.727		1	60	\$.45 h.	\$.450
	1	54	6.50 d.	.722		1	54	4.00 d.	.444
	10	60	7.00 d.	.700		4	60	\$.44 h.	\$.440
	2	60	.51 h.	.510		11	60	\$.43 h.	\$.430
	1	60	\$.42 h.	\$.420		9	60	\$.42 h.	\$.420
Hook tenders, second.....	1	54	2 4.50 d.	2.500		2	60	\$.41 h.	\$.410
Hookers.....	4	48	6.30 d.	.788	Loaders, head.....	2	48	.80 h.	.800
	1	54	.57 h.	.570		2	63	.75 h.	.750
	10	48	.55 h.	.550		5	60	.75 h.	.750
	1	60	\$.53 h.	\$.530		1	60	\$.70 h.	\$.700
Jack hammers....	1	63	.45 h.	.450		6	54	.70 h.	.700
Junk sawyers....	1	54	.49 h.	.490		1	54	6.00 d.	.667
Knotters.....	3	48	.40 h.	.400		1	54	5.75 d.	.639
Laborers.....	2	54	.55 h.	.550		2	60	\$.63 h.	\$.630
	1	63	.50 h.	.500		2	54	.59 h.	.590
	1	54	.50 h.	.500		1	60	\$.56 h.	\$.560
	1	470	.45 h.	.450		1	54	2.50 d.	\$.556

* And board.

* Time and one-half after 8 hours per day.

* 7 days.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

CALIFORNIA—Continued.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Lookouts.....	1	54	\$0.80 h.	\$0.800	Rigging pullers....	2	54	\$5.00 d.	\$0.556
Machinists.....	1	60	205.00 m.	.788		1	54	4.81 d.	.534
	1	48	.75 h.	.750		1	54	4.50 d.	.500
	1	60	3.68 h.	3.680		3	54	2.40 d.	2.467
	1	60	3.52 h.	3.520		1	54	4.00 d.	.444
Machinists' helpers	1	48	.625 h.	.625		1	54	3.70 d.	2.411
	1	60	3.45 h.	3.450	Rigging slingers...	4	54	5.00 d.	.556
Markers.....	2	48	(²)	.639		1	48	4.25 d.	.531
	1	48	117.00 m.	.563		1	54	2.450 d.	2.500
	1	48	115.00 m.	.553		3	54	3.70 d.	2.411
	2	54	.55 h.	.550	Rigging slingers, head.....	1	54	.77 h.	.770
	1	48	(²)	.526		2	48	5.00 d.	.625
	1	48	100.00 m.	.481		1	54	5.39 d.	.599
	1	70	.45 h.	.450		2	54	.57 h.	.570
Mechanic (woods).	1	60	3.44 h.	3.440	Ringers.....	1	48	3.75 d.	.469
Pipe men.....	1	48	232.00 m.	1.112		2	54	.44 h.	.440
	1	63	.65 h.	.650		3	54	3.93 d.	.430
	1	54	.60 h.	.600		2	54	.42 h.	.427
	1	54	.55 h.	.550	Road builders.....	1	70	.50 h.	.500
	1	54	.495 h.	.495	Roustabouts.....	1	54	2.40 d.	2.444
Pond men, head...	1	54	6.00 d.	.667	Saw filers.....	1	48	150.00 m.	.721
	1	54	4.50 d.	.500		1	60	3.68 h.	2.680
	2	54	4.30 d.	.478		1	54	6.00 d.	.667
	1	54	4.00 d.	.444		1	48	5.30 d.	.667
Powder men.....	1	70	.50 h.	.500		4	63	.65 h.	.650
	1	54	.50 h.	.500		1	54	.65 h.	.650
	1	48	.475 h.	.475		1	54	.625 h.	.625
	1	60	3.40 h.	3.400		1	48	.625 h.	.625
Pump men.....	1	70	5.75 d.	.575		2	54	5.40 d.	.600
	1	63	4.95 d.	.550		1	54	5.85 h.	.585
	2	63	.55 h.	.550		1	70	175.00 m.	.577
	1	70	3.54 h.	3.540		10	60	5.75 d.	.575
	2	70	5.00 d.	.500		1	54	5.00 d.	.556
	2	63	.50 h.	.500		1	60	5.50 d.	.550
	1	70	3.48 h.	3.480		1	60	3.55 h.	3.550
	1	70	4.50 d.	.450		1	54	2.81 d.	2.534
	1	70	3.425 d.	3.425		1	60	3.50 h.	3.500
	1	56	90.00 m.	.371		1	60	3.49 h.	3.490
	1	63	3.25 d.	.361		1	60	3.47 h.	3.470
Repair men.....	1	60	3.48 h.	3.480	Sawyers, steam....	1	48	4.60 d.	.575
Repair men (wedge and hammer)....	1	54	.50 h.	.500		1	48	4.50 d.	.563
Riggers.....	3	54	.65 h.	.650		4	54	.55 h.	.550
	2	70	.60 h.	.600		2	48	4.25 d.	.531
	9	63	.60 h.	.600		6	48	4.00 d.	.500
	1	60	3.60 h.	3.600		4	54	4.05 d.	.450
	10	54	5.40 d.	.600	Sawyers, steam, second.....	2	54	.475 h.	.475
	34	54	.60 h.	.600		3	54	.425 h.	.425
	1	60	.58 h.	.580		1	54	.410 h.	.410
	3	54	5.00 d.	.556	Scalers.....	1	48	5.30 d.	.663
	1	70	.55 h.	.550		1	48	130.00 m.	.625
	6	63	.55 h.	.550		1	54	(⁵)	.617
	5	54	4.95 d.	.550		1	54	140.00 m.	.598
	1	54	.55 h.	.550		1	60	3150.00 m.	3.577
	2	54	4.80 d.	.533		1	48	117.00 m.	.563
	3	54	4.75 d.	.528		1	54	2.500 d.	2.556
	16	60	.52 d.	.520		2	60	3.54 h.	3.540
	2	70	.50 h.	.500		2	60	140.00 m.	.538
	20	54	.50 h.	.500		2	60	5.25 d.	.525
	2	60	3.49 h.	3.490		1	48	.50 h.	.500
	7	54	.475 h.	.475		1	54	2120.00 m.	2.499
	11	60	3.47 h.	3.470		2	70	125.00 m.	.412
	1	54	.47 h.	.470		1	60	.40 h.	.400
	1	60	3.45 h.	3.450		2	54	.40 h.	.400
	2	54	.45 h.	.450		1	60	2100.00 m.	2.385
Riggers, head.....	1	54	2.60 d.	2.667		1	60	2100.00 m.	2.366
	1	54	.65 h.	.650	Snipers.....	3	54	6.00 d.	.667
	7	54	.62 h.	.625		1	48	4.50 d.	.563
	9	48	.625 h.	.625		3	54	.53 h.	.530
	1	70	.605 h.	.600		1	70	.50 h.	.500
	4	63	.60 h.	.600		1	60	.48 h.	.480
	1	70	.50 h.	.500					

² And board.

³ Time and one-half after 8 hours per day.

⁴ 7 days.

⁵ Piecework.

36 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

CALIFORNIA—Continued.

Occupation.	Number of employees.	Full-time hours per week	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Snipers.....	8	60	\$0.47 h.	\$0.470	Watchmen, night..	1	470	\$4.50 d.	\$0.450
	2	60	.45 h.	.450		4	463	110.00 m.	.403
	1	60	.40 h.	.400		1	470	4.00 d.	.400
	1	54	2 3.50 h.	2.389		4	463	100.00 m.	.366
Spool tenders.....	2	463	.60 d.	.600		1	470	3.35 h.	3.350
	3	54	5.00 h.	.556		2	470	3.32 h.	3.320
	2	54	.55 h.	.550		1	84	110.00 m.	.302
	1	54	.54 d.	.540		6	84	100.00 m.	.275
	1	60	5.25 h.	.525		2	63	270.00 m.	2.256
	1	60	3.52 h.	3.520		1	84	92.00 m.	.253
	1	470	.50 h.	.500		3	84	90.00 m.	.247
	1	54	4.50 d.	.500	Water bucks.....	1	463	.40 h.	.400
	4	60	3.47 h.	3.470		2	54	.40 h.	.400
	3	60	3.46 h.	3.460		1	54	3.25 d.	.361
	8	60	3.45 h.	3.450		1	60	3.36 h.	3.360
	1	60	3.42 h.	3.420		2	54	.35 h.	.350
Spoolwrights.....	1	54	.60 h.	.600	Water slingers.....	1	54	6.75 d.	.750
Storekeepers.....	1	48	200.00 m.	.961	Wedgers.....	3	470	.40 h.	.400
Survey gang.....	1	48	182.00 m.	.875	Whistle punks.....	1	60	2.43 h.	2.430
	2	48	157.00 m.	.755		1	54	.425 h.	.425
	3	48	85.00 m.	.409		1	54	3.75 d.	.417
Surveyors.....	1	60	175.00 m.	.673		3	60	3.41 h.	3.410
Surveyors' helpers.	1	60	150.00 m.	.577		1	463	.40 h.	.400
Swampers.....	1	54	.54 h.	.540		3	54	3.60 d.	.400
	2	48	.50 h.	.500		2	54	.40 h.	.400
	1	60	3.49 h.	3.490		5	60	3.38 h.	3.380
	2	60	2.48 h.	2.480		2	54	.375 h.	.375
	1	54	4.31 d.	.479		6	48	.375 h.	.375
	3	54	4.23 d.	.470		4	60	3.37 h.	3.370
	1	48	3.75 d.	.469		7	7	3.35 h.	3.350
	3	60	3.45 h.	3.450		5	60	3.35 h.	3.350
	1	54	2 4.00 d.	2.444		3	54	.35 h.	.350
	2	54	4.00 d.	.444		2	48	2.75 d.	.344
	6	54	3.85 d.	.428		1	54	3.00 d.	.333
	1	54	3.75 d.	.417		1	60	3.33 h.	3.330
	1	60	3.41 h.	3.410		3	54	.33 h.	.330
	2	60	3.40 h.	3.400		2	60	3.32 h.	3.320
	1	54	3.50 d.	.389		7	60	3.31 h.	3.310
	2	60	3.36 h.	3.360		1	470	.30 h.	.300
Swampers, head...	1	54	6.70 d.	.744		2	60	3.30 h.	3.300
	1	54	.71 h.	.710		1	60	3.28 h.	3.280
	1	54	3 6.00 d.	3.667		1	60	3.26 h.	3.260
	1	60	3.60 h.	3.600		1	54	2.00 d.	.222
	1	54	5.39 d.	.599	Whitewash men...	1	60	4.95 d.	.495
	2	60	3.54 h.	3.540		1	60	3.40 h.	3.400
	1	60	3.49 h.	3.490	Wood bucks.....	1	463	(5)	.855
	1	54	.65 h.	.650		1	463	(5)	.758
	1	48	4.25 d.	.531		1	463	(5)	.701
Teamsters.....	3	463	.50 h.	.500		1	463	(5)	.642
	1	54	.50 h.	.500		1	463	(5)	.629
	2	470	.45 h.	.450		1	54	.60 h.	.600
	3	463	.45 h.	.450		1	463	(5)	.581
	2	54	4.05 d.	.450		1	463	(5)	.629
	8	54	.45 h.	.450		2	48	4.50 d.	.563
	1	48	.45 h.	.450		8	54	4.95 d.	.550
	12	54	4.25 h.	.425		1	463	(5)	.548
	1	54	.40 h.	.400		1	463	(5)	.543
Timekeepers.....	1	470	.60 h.	.600		1	463	(5)	.514
Tool sharpeners...	1	463	.45 h.	.450		1	48	107.00 m.	.510
Under cutters.....	3	470	.60 h.	.600		1	60	3.49 h.	3.490
Unhookers.....	1	60	3.49 h.	3.490		4	60	3.48 h.	3.480
	1	60	3.47 h.	3.470		1	60	3.47 h.	3.470
	5	60	3.45 h.	3.450		7	48	3.75 d.	.469
	4	60	3.43 h.	3.430		1	60	3.46 h.	3.460
	3	60	3.41 h.	3.410		5	63	.45 h.	.450
	2	60	3.36 h.	3.360		7	60	3.45 h.	3.450
	1	60	3.35 h.	3.350		35	54	.45 h.	.450
	3	60	3.34 h.	3.340		2	54	4.00 d.	.444
	1	60	3.31 h.	3.310		2	60	.44 h.	.440

² And board.

³ Time and one-half after 8 hours per day.

⁴ 7 days.

⁵ Piecework.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

CALIFORNIA—Concluded.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Wood bucks.....	1	54	\$0.435 h.	\$0.435	Wood bucks.....	4	54	\$3.25 d.	\$0.361
	1	48	.43 h.	.430		1	60	3.36 h.	.360
	1	54	3.75 d.	.417		8	60	3.35 h.	.350
	6	48	.40 h.	.400		3	54	3.35 h.	.350
	8	60	.40 h.	.400		1	60	30.00 m.	.307
	1	54	.40 h.	.400		1	60	3.30 h.	.300
	17	48	.40 h.	.400	Woods gang bosses.	1	54	245.00 m.	.192
	1	60	.37 h.	.370		1	48	.70 h.	.700

IDAHO.

Barn bosses.....	1	48	\$0.375 h.	\$0.375	Loaders.....	3	48	\$4.75 d.	\$0.594
	1	56	240.00 m.	2.165		1	48	3.20 d.	.400
	1	56	235.00 m.	2.144		4	48	.375 h.	.375
Blacksmiths.....	2	48	290.00 m.	2.433	Machinists, caterpillar.....	1	48	.80 h.	.800
	1	48	280.00 m.	2.385		1	48	.75 h.	.750
Bull cooks.....	1	48	270.00 m.	2.288	Repair men.....	1	48	.70 h.	.700
Canthook men, jammer.....	3	48	.35 h.	.350		1	48	5.00 d.	.625
Canthook men, skids.....	6	48	.325 h.	.325	Road men.....	7	48	.375 h.	.375
	1	48	.40 h.	.400		4	48	.33 h.	.330
	10	48	.30 h.	.300		4	48	.325 h.	.325
Caterpillar haulers	1	48	.375 h.	.375		12	48	.30 h.	.300
Cooks, first.....	2	48	2125.00 m.	2.515	Scalers.....	1	48	2150.00 m.	2.618
	3	48	2110.00 m.	2.453		1	48	2125.00 m.	2.515
	1	98	2115.00 m.	2.271		1	48	.375 h.	.375
Cooks, second.....	1	48	285.00 m.	2.350		1	48	285.00 m.	2.350
	1	48	270.00 m.	2.288		1	48	275.00 m.	2.309
	3	48	255.00 m.	2.227	Skidding employees.....	1	48	4.40 d.	.550
	1	98	260.00 m.	2.141		2	48	4.00 d.	.500
Engineers, caterpillar.....	3	48	.70 h.	.700		1	48	.50 h.	.500
Fallers.....	2	48	3.40 d.	.425		5	48	3.20 d.	.400
	2	48	3.20 d.	.400		3	48	3.00 d.	.375
	3	48	.375 h.	.375		2	48	.375 h.	.375
	41	48	.33 h.	.330		1	48	250.00 m.	2.240
Filers.....	1	56	260.00 m.	2.247		1	48	240.00 m.	2.192
Firefighters.....	1	48	(1)	2.361		9	48	235.00 m.	2.144
	1	48	(1)	2.352	Straw bosses.....	1	48	260.00 m.	2.247
	38	48	2.35 h.	2.350	Swampers.....	18	48	.375 h.	.375
Flunkies.....	3	48	240.00 m.	2.165		6	48	.35 h.	.350
	12	48	230.00 m.	2.124		57	48	.30 h.	.300
	2	98	240.00 m.	2.094	Teamsters.....	7	48	.375 h.	.375
Handy men.....	1	56	270.00 m.	2.288		1	48	(1)	2.159
	1	56	250.00 m.	2.206		20	48	235.00 m.	2.144
Jammer hookers...	1	48	.45 h.	.450	Top loaders.....	16	48	.37 h.	.370
	12	48	.34 h.	.340	Truck drivers.....	3	48	.45 h.	.450
Laborers.....	1	48	.30 h.	.300	Truck loaders.....	1	48	.37 h.	.370
Landing men.....	1	48	.37 h.	.370	Wood bucks.....	1	48	.35 h.	.350
	7	48	.34 h.	.340					

LOUISIANA.

Assistant foremen..	1	60	\$3.25 d.	\$0.325	Blacksmiths.....	1	60	\$0.475 h.	\$0.475
	1	60	2.50 d.	.250		2	54	.45 h.	.450
Barnmen.....	1	70	.40 h.	.400		1	750	4.25 d.	.425
	1	60	3.70 d.	.370		1	60	3.75 d.	.375
	1	70	.335 h.	.335		1	60	3.60 d.	.360
	1	70	2.75 d.	.275		1	60	.35 h.	.350
Blacksmiths.....	1	60	.275 h.	.275		2	60	3.00 d.	.300
	1	60	.70 h.	.700	Blacksmiths' helpers.....	1	60	.325 h.	.325
	1	60	160.00 m.	.615		1	60	3.00 d.	.300
	2	60	.55 h.	.550		3	60	.30 h.	.300
	1	60	.50 h.	.500					

¹ More than one rate.

² And board.

³ Time and one-half after 8 hours per day.

⁴ 7 days.

⁵ 5 days.

38 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

LOUISIANA—Continued.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Blacksmiths' helpers.....	1	60	\$0.25 h.	\$0.250	Firemen.....	5	60	\$0.225 h.	\$0.225
	1	60	2.00 d.	.200		13	60	2.00 d.	.200
	2	60	.20 h.	.200	Flagmen.....	6	60	.27 h.	.270
Block men.....	1	60	2.25 d.	.225		6	60	.25 h.	.250
Boilermakers.....	1	60	.70 h.	.700		3	60	.245 h.	.245
Boilermakers' helpers.....	1	60	.425 h.	.425		3	60	.225 h.	.225
	1	60	.30 h.	.300		4	60	.20 h.	.200
Carpenters.....	3	60	.45 h.	.450		12	7 50	1.75 d.	.175
	1	54	.425 h.	.425	Grab setters.....	3	60	1.65 d.	.165
	1	60	.375 h.	.375	Graders.....	1	60	.25 h.	.250
	1	60	3.50 d.	.350	Hookers.....	1	60	2.70 d.	.270
	1	60	3.25 d.	.325		1	60	2.75 d.	.275
	3	60	3.00 d.	.300		1	60	(1)	.229
	2	60	2.75 d.	.275		1	60	2.25 d.	.225
	2	60	2.50 d.	.250		1	60	(1)	.217
	2	60	2.00 d.	.200		1	60	(1)	.211
Carpenters' helpers.....	1	60	.30 h.	.300	Hookers, head.....	7	60	2.00 d.	.200
	1	54	.25 h.	.250		2	60	3.00 d.	.300
	1	54	.225 h.	.225	Horse changers.....	2	60	.30 h.	.300
	1	60	.175 h.	.175		1	7 50	2.50 d.	.250
Clean ups.....	1	60	.20 h.	.200	Hostlers.....	1	60	5.50 d.	.550
	1	60	.175 h.	.175		2	60	.60 h.	.600
Corral men.....	1	60	(1)	.225		1	63	3.00 d.	.333
	1	60	1.75 d.	.175		1	60	2.75 d.	.275
Cutters.....	4	60	.275 h.	.275		1	60	2.50 d.	.250
Deckers.....	3	60	.35 h.	.350		1	60	.25 h.	.250
	3	60	.27 h.	.270	Hostlers' helpers...	1	60	2.25 d.	.225
	6	60	.25 h.	.250		4	60	2.00 d.	.200
	3	60	.245 h.	.245		1	60	.30 h.	.300
	3	7 50	2.25 d.	.225	Janitors.....	1	60	.275 h.	.275
	4	60	2.00 d.	.200		4	54	1.75 d.	.194
Doggers.....	1	60	(1)	.176	Laborers.....	1	60	2.25 d.	.225
	11	60	1.65 d.	.165		2	60	3.74 d.	.374
Drum men.....	4	60	.45 h.	.450		1	60	2.75 d.	.275
	8	60	.40 h.	.400		4	60	.275 h.	.275
	3	60	3.75 d.	.375		4	60	2.25 d.	.225
	4	60	.375 h.	.375		11	60	2.00 d.	.200
	3	60	.335 h.	.335		1	60	(1)	.188
	2	7 50	3.25 d.	.325		23	60	1.75 d.	.175
	2	60	.32 h.	.320		4	60	1.65 d.	.165
	12	60	3.00 d.	.300		1	60	1.61 d.	.161
	6	60	.30 h.	.300	Linemen.....	1	60	1.50 d.	.150
	1	60	2.00 d.	.200		54	60	1.35 d.	.135
Engineers.....	8	60	5.50 d.	.550		1	60	.375 h.	.375
	2	60	.50 h.	.500	Line setters.....	1	60	.225 h.	.225
	3	60	3.86 d.	.386	Loader men.....	1	60	.245 h.	.245
Extra men.....	1	60	4.00 d.	.400		2	60	.80 h.	.800
	1	60	.295 h.	.295		3	60	7.00 d.	.700
	3	60	.25 h.	.250		2	60	6.00 d.	.600
	4	7 50	2.00 d.	.200		1	60	.60 h.	.600
Filers.....	1	60	3.50 d.	.350		1	60	5.85 d.	.585
	1	7 50	3.00 d.	.300		2	60	.58 h.	.580
	1	60	2.75 d.	.275		1	60	.575 h.	.575
Firemen.....	1	60	.40 h.	.400		1	60	145.00 m.	.551
	1	60	3.75 d.	.375		1	60	5.50 d.	.550
	1	60	.375 h.	.375		1	60	.55 h.	.550
	4	60	.35 h.	.350		1	60	.53 h.	.530
	2	60	.325 h.	.325		1	60	3.50 d.	.350
	1	60	3.00 d.	.300	Loaders.....	1	60	(1)	.306
	1	60	.30 h.	.300		1	60	3.00 d.	.300
	4	7 50	2.75 d.	.275		1	60	.40 h.	.400
	2	60	.275 h.	.275		4	60	.375 h.	.375
	1	60	.26 h.	.260		3	60	.325 h.	.325
	2	60	2.50 d.	.250		1	60	.275 h.	.275
	3	60	.25 h.	.250		5	60	2.50 d.	.250
	5	60	2.25 d.	.225	Log checkers.....	1	60	.25 h.	.250
						1	60	3.70 d.	.370
						1	60	3.00 d.	.300

¹ More than one rate.
⁴ 7 days.

⁷ 5 days.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

LOUISIANA—Continued.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Log checkers.....	1	60	\$0.20 h.	\$0.200	Skidder men.....	2	60	\$0.50 h.	\$0.500
Machine operators.....	1	60	2.75 d.	.275		3	60	.45 h.	.450
Machinists.....	1	60	.75 h.	.750		2	60	4.25 d.	.425
	1	60	.65 h.	.650	Skidders' helpers.....	1	60	4.00 d.	.400
	1	54	.65 h.	.650	Slackmen.....	5	60	.25 h.	.250
	1	60	.63 h.	.630	Spar cutters.....	2	60	.225 h.	.225
	2	60	.50 h.	.500	Supply men.....	1	60	2.25 d.	.225
	2	60	.45 h.	.450	Swampers.....	1	60	.275 h.	.275
	1	60	4.00 d.	.400		6	60	.225 h.	.225
	2	60	.36 h.	.360		6	750	1.75 d.	.175
	1	60	.30 h.	.300	Teamsters.....	1	60	.425 h.	.425
Machinists' helpers.....	1	60	.45 h.	.450		4	60	.40 h.	.400
	1	60	.40 h.	.400		7	60	.325 h.	.325
	1	60	3.50 d.	.350		5	60	2.25 d.	.225
	3	60	.325 h.	.325		2	60	.225 h.	.225
	2	60	.30 h.	.300		4	60	2.00 d.	.200
	2	60	2.75 d.	.275		2	750	2.00 d.	.200
	1	60	.25 h.	.250	Timber cutters....	2	60	(¹)	.342
	1	60	2.00 d.	.200		1	60	(¹)	.335
Master mechanics.....	1	54	250.00 m.	1.088		1	60	(¹)	.326
Mechanics.....	1	60	6.66 d.	.666		1	60	(¹)	.321
	1	60	(¹)	.311		1	60	(¹)	.318
Motormen.....	2	60	.325 h.	.325		2	60	(¹)	.312
Oilers.....	3	60	.25 h.	.250		1	60	(¹)	.306
	3	60	.20 h.	.200		1	60	(¹)	.303
Ox drivers.....	5	750	2.25 d.	.225		2	60	(¹)	.296
Pumpmen.....	1	60	7.40 d.	.740		1	60	(¹)	.293
	1	60	6.75 d.	.675		1	60	(¹)	.291
	1	60	.325 h.	.325		1	60	(¹)	.287
	2	60	.225 h.	.225		1	60	(¹)	.286
	1	60	1.75 d.	.175		1	60	(¹)	.252
Raftmen.....	1	60	2.75 d.	.275	Tongers.....	3	750	3.75 d.	.375
	1	60	2.60 d.	.260		5	60	.275 h.	.275
	3	60	2.50 d.	.250		5	60	1.75 d.	.175
	2	60	2.25 d.	.225		1	60	1.65 d.	.165
	1	60	2.00 d.	.200	Tong hookers.....	27	60	.30 h.	.300
	1	60	1.65 d.	.165		8	60	.295 h.	.295
Raftmen, head....	1	60	3.75 d.	.375		14	60	2.75 d.	.275
Repairmen.....	1	60	6.00 d.	.600		9	60	.275 h.	.275
	1	60	.58 h.	.580		1	60	.27 h.	.270
	1	60	5.00 d.	.500		6	60	.25 h.	.250
	2	60	3.00 d.	.300		1	60	.225 h.	.225
	2	60	.30 h.	.300		11	750	2.00 d.	.200
	2	60	.25 h.	.250	Tongmen.....	9	60	.30 h.	.300
Riders.....	4	60	.25 h.	.250	Tong setters.....	7	60	.375 h.	.375
	2	60	.225 h.	.225		2	60	.275 h.	.275
	3	60	.20 h.	.200		1	60	.27 h.	.270
	9	60	.175 h.	.175		2	60	.25 h.	.250
	5	750	1.50 d.	.150		1	60	.225 h.	.225
	9	60	1.35 d.	.135		1	60	.20 h.	.200
Riggers.....	1	60	.375 h.	.375	Top loaders.....	1	60	.35 h.	.350
	2	60	3.50 d.	.350		2	60	.325 h.	.325
Riggers, second....	1	60	(¹)	.288		2	750	2.75 d.	.275
Rollway men.....	1	60	.355 h.	.355		3	60	2.00 d.	.200
	4	60	.25 h.	.250		3	60	1.75 d.	.175
Run cutters.....	1	60	(¹)	.705	Watchmen.....	1	470	.31 h.	.310
Sand dryers.....	1	60	2.00 d.	.200		1	470	3.00 d.	.300
Scalers.....	1	60	.50 h.	.500		1	470	.30 h.	.300
	3	60	100.00 m.	.451		1	470	.275 h.	.275
	3	60	.45 h.	.450		1	484	3.25 d.	.271
	1	750	90.00 m.	.415		2	484	3.00 d.	.250
	1	60	105.00 m.	.404		3	484	2.75 d.	.229
	6	60	.40 h.	.400		1	484	.225 h.	.225
	4	60	3.52 d.	.352		1	484	2.40 d.	.200
	1	60	3.50 d.	.350		1	470	2.00 d.	.200
	2	60	.35 h.	.350		1	484	2.25 d.	.188
	2	60	.325 h.	.325		2	470	1.75 d.	.175
	1	60	.275 h.	.275	Water boys.....	1	60	.25 h.	.250
Skidder men.....	1	60	7.50 d.	.750	Wood cutters.....	10	60	.25 h.	.250
	4	60	.575 h.	.575	Woodmen.....	1	60	4.75 d.	.475
	1	60	.55 h.	.550		1	60	(¹)	.415

¹ More than one rate.
47 days.

² Piecework.
75 days.

40 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

LOUISIANA—Concluded.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Woodmen.....	1	60	\$0.40 h.	\$0.400	Woodmen.....	5	60	\$2.25 d.	\$0.225
	1	60	.30 h.	.300		2	60	.225 h.	.225
	1	60	.26 h.	.260		2	60	2.00 d.	.200
	17	60	.25 h.	.250		3	60	.20 h.	.200

MISSISSIPPI

Barn men.....	1	570	\$140.00 m.	\$0.462	Engineers.....	1	60	\$125.00 m.	\$0.481
	1	570	90.00 m.	.297		1	60	120.00 m.	.462
	1	570	2.75 d.	.275	Engineers and loader men.....	1	60	4.50 d.	.450
	1	570	(1)	.236	Extra men.....	2	60	2.00 d.	.200
	1	570	.225 h.	.225		1	60	.175 h.	.175
	2	570	.20 h.	.200	Filers.....	1	60	4.85 d.	.485
	1	570	.175 h.	.175		1	60	26.45 w.	.441
Blacksmiths.....	1	60	6.00 d.	.600		1	60	.35 h.	.350
	1	750	.60 h.	.600		2	750	.35 h.	.350
	1	60	4.75 d.	.475	Firemen.....	8	60	.30 h.	.300
	1	60	.45 h.	.450		1	60	.50 h.	.500
	1	60	4.25 d.	.425		2	750	.325 h.	.325
	3	60	.40 h.	.400		1	60	.30 h.	.300
	1	60	.35 h.	.350		1	750	.30 h.	.300
	1	60	3.00 d.	.300		4	60	.275 h.	.275
Blacksmiths' helpers.....	1	60	.275 h.	.275		2	60	2.50 d.	.250
	1	60	.25 h.	.250		8	60	.25 h.	.250
	1	60	2.35 d.	.235		2	60	.24 h.	.240
	2	60	2.25 d.	.225		1	60	(1)	.228
	3	60	.15 h.	.150		2	60	2.25 d.	.225
Carpenters.....	1	60	.30 h.	.300		1	60	.225 h.	.225
	1	60	.275 h.	.275		2	66	2.00 d.	.182
Carpenters' helpers.	1	750	.225 h.	.225		1	60	.18 h.	.180
	1	60	.20 h.	.200	Flagmen.....	10	750	.275 h.	.275
	1	60	.15 h.	.150		1	60	(1)	.233
Clean ups.....	1	60	2.25 d.	.225		5	60	.225 h.	.225
	1	750	.225 h.	.225		13	60	.20 h.	.200
	1	60	.15 h.	.150	Flunkeys.....	1	60	.15 h.	.150
Cooks.....	1	470	¹ 75.00 m.	² .247	Foremen.....	1	60	140.00 m.	.538
	1	470	² 60.00 m.	² .198		3	60	3.25 d.	.325
Deckers.....	2	750	.275 h.	.275	Gas-engine mechanic.....	1	60	175.00 m.	.673
	2	60	2.50 d.	.250	Haulers.....	1	60	2.25 d.	.225
	1	60	2.40 d.	.240		20	60	.225 h.	.225
	11	60	.24 h.	.240	Helpers.....	1	750	.40 h.	.400
	5	60	.225 h.	.225		1	750	.30 h.	.300
	12	60	.20 h.	.200		1	60	(1)	.261
	4	60	.175 h.	.175		1	60	2.35 d.	.235
Doggers.....	1	750	.275 h.	.275	Hookers.....	7	60	.275 h.	.275
Drum men.....	1	60	.375 h.	.375		1	60	(1)	.255
	1	60	(1)	.352		1	60	.25 h.	.250
	6	750	.35 h.	.350	Horse changers.....	1	750	.275 h.	.275
	4	60	3.25 d.	.325		1	60	.225 h.	.225
	7	60	.325 h.	.325		1	60	2.20 d.	.220
	1	60	(1)	.304		1	60	.20 h.	.200
	1	60	3.00 d.	.300		1	60	.175 h.	.175
	14	60	.30 h.	.300	Hostlers and watchmen.....	1	60	2.50 d.	.250
	2	60	2.85 d.	.285		1	84	.225 h.	.225
	2	60	.275 h.	.275		1	60	.20 h.	.200
	1	60	(1)	.275		1	60	1.75 d.	.159
	1	60	(1)	.268	Janitors.....	1	60	50.00 m.	.192
	1	60	2.60 d.	.260	Laborers.....	1	750	.225 h.	.225
	3	60	2.50 d.	.250		2	60	1.75 d.	.175
	1	60	(1)	.246	Line setters.....	1	60	.325 h.	.325
	1	60	(1)	.242		1	60	.30 h.	.300
	2	60	2.40 d.	.240		2	60	.275 h.	.275
	1	60	.225 h.	.225		2	60	.25 h.	.250
	1	60	2.00 d.	.200		1	60	.20 h.	.200
Dynamo and pump men.....	2	60	2.65 d.	.265					

¹ More than one rate.

² And board.

⁴ 7 days.

⁷ 5 days.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

MISSISSIPPI—Continued.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Line setters' helpers.....	1	60	(1)	\$.267	Surveyors and cruisers' asst.....	1	60	\$115.00 m.	\$.442
	3	60	\$0.20 h.	.200	Swampers.....	8	60	2.00 d.	.200
	1	60	(1)	.194		1	60	.20 h.	.200
Loader men.....	1	60	7.65 d.	.765		1	60	.185 h.	.185
	3	60	175.00 m.	.673		9	60	1.75 d.	.175
	2	60	.65 h.	.650		12	60	.175 h.	.175
	1	60	6.00 d.	.600		1	60	(1)	.153
	4	60	.60 h.	.600		1	60	(1)	.154
	1	60	(1)	.592		6	60	1.50 d.	.150
	2	60	5.75 d.	.575		16	60	.15 h.	.150
	2	60	.575 h.	.575		1	60	(1)	.145
	1	72	6.00 d.	.500		17	60	.135 h.	.135
	1	60	125.00 m.	.481		1	60	(1)	.135
	3	60	.45 h.	.450	Tail-down men....	3	60	.125 h.	.125
	1	60	4.30 d.	.430		2	60	2.50 d.	.250
	1	60	(1)	.417		5	60	2.40 d.	.240
	1	60	(1)	.408		2	60	2.00 d.	.200
Loader, bumper..	1	60	2.35 d.	.235		1	60	(1)	.192
Log tiers.....	5	60	.24 h.	.240	Teamsters.....	7	60	2.75 d.	.275
Machinists.....	2	60	4.25 d.	.425		1	60	.275 h.	.275
	1	60	.39 h.	.390		6	60	.25 h.	.250
	1	60	.35 h.	.350		15	60	.225 h.	.225
Master mechanic...	1	60	175.00 m.	.673		4	60	2.10 d.	.210
Oilers.....	1	60	.275 h.	.275		36	60	2.00 d.	.200
	3	60	.25 h.	.250		15	60	1.75 d.	.175
	3	60	.20 h.	.200		1	70	.15 h.	.150
	3	60	.15 h.	.150	Teamsters, foremen	1	60	1.50 d.	.150
Police.....	1	60	110.00 m.	.423		1	60	5.00 d.	.500
Pumpmen.....	1	470	.325 h.	.325		1	60	115.00 m.	.442
	1	470	.20 h.	.200		1	60	.325 h.	.325
	1	470	1.75 d.	.175	Timekeepers.....	1	60	2.50 d.	.250
Riders.....	2	750	.275 h.	.275		1	60	31.45 w.	.524
	1	60	.24 h.	.240		1	60	130.00 m.	.500
	3	750	.225 h.	.225		1	60	28.00 w.	.467
	2	60	2.00 d.	.200		1	60	100.00 m.	.385
	3	60	.16 h.	.160	Tongers.....	1	60	75.00 m.	.288
	4	60	1.50 d.	.150		6	60	.30 h.	.300
	11	60	.15 h.	.150		1	750	.30 h.	.300
Saw bosses.....	1	60	34.50 w.	.575		2	60	2.85 d.	.285
	1	60	125.00 m.	.481		1	60	2.80 d.	.280
	1	60	.40 h.	.400		9	750	.275 h.	.275
	3	60	.30 h.	.300		3	60	2.70 d.	.270
	1	470	2.50 d.	.250		1	60	2.60 d.	.260
Scalers.....	1	60	.225 h.	.225		3	60	2.55 d.	.255
	1	60	110.00 m.	.423		3	60	2.50 d.	.250
	2	60	4.00 d.	.400		14	60	.25 h.	.250
	2	60	100.00 m.	.385		1	60	(1)	.247
	1	60	.35 h.	.350		2	60	2.40 d.	.240
	2	60	90.00 m.	.346		1	60	.24 h.	.240
	2	60	85.00 m.	.327		1	60	(1)	.235
	5	60	.30 h.	.300		6	60	2.25 d.	.225
	3	60	.275 h.	.275		6	60	.225 h.	.225
	2	60	.25 h.	.250		1	60	(1)	.223
	1	60	.225 h.	.225		4	72	2.50 d.	.208
	1	60	2.00 d.	.200		14	60	2.00 d.	.200
Skidder foremen...	1	750	200.00 m.	.923		9	60	.20 h.	.200
	1	60	175.00 m.	.673	Top loaders.....	1	60	.175 h.	.175
	1	60	38.00 w.	.633		1	60	3.20 d.	.320
	2	60	160.00 m.	.615		2	60	3.10 d.	.310
	2	60	150.00 m.	.577		2	60	.30 h.	.300
	1	60	100.00 m.	.385		3	750	.30 h.	.300
Skidder helpers...	2	750	.30 h.	.300		4	60	2.50 d.	.250
Surveyors.....	1	60	125.00 m.	.481		1	60	.25 h.	.250
	3	60	3.50 d.	.350		3	72	2.75 d.	.229
Surveyors' helpers.	1	60	.19 h.	.190		2	60	.225 h.	.225
	1	60	1.50 d.	.150	Top loaders and tongers.....	1	750	(1)	.283
Surveyors and cruisers.....	1	60	205.00 m.	.788		1	60	(1)	.271

¹ More than one rate.

⁷ 5 days.

⁴ 7 days.

42 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

MISSISSIPPI—Concluded.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Top loaders and tongsers.....	1	60	(1)	\$0.264	Water boys.....	1	60	\$0.15 h.	\$0.150
	1	60	\$2.50 d.	.250		1	60	1.25 d.	.125
	1	72	(1)	.226		1	60	.10 h.	.100
	1	72	(1)	.218	Whistle blowers...	4	60	.11 h.	.110
	1	72	(1)	.212	Woodsmen.....	2	750	.275 h.	.275
	1	60	2.00 d.	.200		1	60	2.50 d.	.250
Tractor men.....	1	60	(1)	.199		1	60	2.40 d.	.240
	1	60	3.25 d.	.325		4	60	.24 h.	.240
	1	60	(1)	.235		1	60	.225 h.	.225
	1	60	2.00 d.	.200		2	60	(1)	.206
Transfer men.....	1	750	.275 h.	.275		3	60	2.00 d.	.200
Watchmen.....	2	60	.215 h.	.215		9	60	.20 h.	.200
	1	84	2.50 d.	.208		1	60	(1)	.179
	1	70	.20 h.	.200		1	60	(1)	.178
	1	60	2.20 d.	.200		3	60	.175 h.	.175
	1	60	2.20 d.	.200		1	60	(1)	.173
	1	60	.20 h.	.200		10	60	.16 h.	.160
	1	84	2.25 d.	.188		1	60	(1)	.155
	1	60	1.75 d.	.175		1	60	1.50 d.	.150
	1	98	(1)	.171		1	60	.15 h.	.150
	1	84	1.40 d.	.117		2	60	.135 h.	.135
Watchmen and water boys.....	2	60	1.75 d.	.175	Woods walkers.....	1	60	(1)	.121
Water boys.....	1	60	.20 h.	.200		1	60	115.00 m.	.442

MONTANA.

Barn bosses.....	1	54	\$3.00 d.	\$0.333	Sawyers.....	1	48	(5)	\$0.613
Blacksmiths.....	1	60	2.50 d.	.250		1	54	(5)	.577
	1	54	² 105.00 m.	.249		1	48	(5)	.574
Bull cooks.....	2	98	² 55.00 m.	.2130		1	48	(5)	.547
Cant-hook men.....	16	54	3.20 d.	.356		1	54	(5)	.530
	1	54	3.00 d.	.333		2	48	(5)	.524
Chute greasers.....	1	54	3.00 d.	.333		2	54	(5)	.513
Cooks.....	1	98	² 140.00 m.	.2330		8	48	\$0.50 h.	.500
	1	98	² 120.00 m.	.2283		1	54	(5)	.476
	1	98	² 100.00 m.	.2235		1	48	(5)	.462
Cooks, second.....	1	98	² 85.00 m.	.2200		1	54	(5)	.455
Engineers.....	2	63	² 145.00 m.	.2531		2	54	(5)	.446
	1	63	² 115.00 m.	.2421		2	54	(5)	.443
Engineers, loader..	2	48	.575 h.	.575		1	54	(1)	.343
Filers.....	1	54	² 85.00 m.	.2363		6	60	² 60.00 m.	.2231
Firemen.....	1	54	² 100.00 m.	.2427	Scalers.....	2	54	² 85.00 m.	.2363
Firemen, loader...	1	48	.40 h.	.400	Signal men.....	1	54	2.50 d.	.278
	1	48	.375 h.	.375	Skidder men.....	1	48	.45 h.	.450
Flunkies.....	3	98	² 60.00 m.	.2141		2	48	.425 h.	.425
	6	98	² 55.00 m.	.2130		10	48	.40 h.	.400
Handymen.....	1	54	² 95.00 m.	.2406	Skidder men, tract- or.....	1	48	.875 h.	.875
Harness makers...	1	54	3.20 d.	.356	Swampers.....	1	48	.445 h.	.445
Hookmen.....	1	54	3.20 d.	.356		11	48	.375 h.	.375
	3	60	² 60.00 m.	.2231		3	54	3.20 d.	.356
Hookers, log load- ers.....	2	54	3.60 d.	.400		40	54	3.00 d.	.333
Hook tenders.....	1	54	² 120.00 m.	.2513		6	60	² 65.00 m.	.2212
Landing men.....	2	60	² 60.00 m.	.2231		1	60	² 60.00 m.	.2192
Loaders.....	6	48	.40 h.	.400	Teamsters.....	2	54	² 62.50 m.	.2267
	2	60	² 65.00 m.	.2250		12	54	² 55.00 m.	.2235
Rig slingers.....	8	54	3.00 d.	.333		9	60	² 60.00 m.	.2231
Road men.....	3	60	² 60.00 m.	.2231	Top loaders.....	1	54	4.05 d.	.450
Sawyers.....	1	48	(5)	.670	Watchmen.....	1	498	(1)	2.208
	2	54	(5)	.661	Wood buckers.....	1	54	4.50 d.	.500
	1	48	(5)	.650		1	54	3.00 d.	.333
	1	48	(5)	.643					

¹ More than one rate.

² And board.

⁴ 7 days.

⁵ Piecework.

⁷ 5 days.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

NORTH CAROLINA.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Assistant scalers and foremen.....	1	60	\$0.20 h.	\$0.200	Cutters.....	1	60	\$0.25 h.	\$0.250
	1	60	.175 h.	.175		9	60	.225 h.	.225
Auto mechanics.....	1	60	.30 h.	.300		1	60	.22 h.	.220
Axmen.....	4	60	.30 h.	.300		2	60	‡ 20 h.	‡ 200
	2	60	.15 h.	.150		5	60	.20 h.	.200
Barn men.....	1	60	95.00 m.	.365		1	60	.15 h.	.150
	1	60	.25 h.	.250	Cutters and sawyers.....	6	60	.225 h.	.225
	2	60	.20 h.	.200	Drivers.....	1	60	.22 h.	.220
Blacksmiths.....	1	60	.575 h.	.575		4	60	.20 h.	.200
	2	60	.45 h.	.450		2	60	.185 h.	.185
	2	60	.425 h.	.425		2	60	.18 h.	.180
	3	60	.40 h.	.400		7	60	.175 h.	.175
	1	60	‡ 35 h.	‡ 350		3	60	.15 h.	.150
	1	60	.35 h.	.350		1	60	.135 h.	.135
	4	60	.30 h.	.300		21	60	.125 h.	.125
	1	60	2.50 d.	.250	Engineers, donkey.....	1	60	.45 h.	.450
	1	60	.25 h.	.250		2	60	.40 h.	.400
	1	60	.20 h.	.200		3	60	.375 h.	.375
Blacksmiths' helpers.....	1	60	‡ 25 h.	‡ 250		2	60	.30 h.	.300
	1	60	.20 h.	.200		5	60	.25 h.	.250
	1	60	.175 h.	.175		1	60	.24 h.	.240
	1	60	.15 h.	.150		1	60	.225 h.	.225
Block rollers.....	1	60	‡ 20 h.	‡ 200	Engineers, incline.	1	60	.40 h.	.400
Brutters.....	9	60	.36 h.	.360		2	60	.35 h.	.350
Car builders.....	1	60	.30 h.	.300		1	60	.25 h.	.250
Carpenters.....	2	60	‡ 30 h.	‡ 300	Engineers, loader..	1	60	.45 h.	.450
	1	60	.30 h.	.300		1	60	.40 h.	.400
	1	60	.275 h.	.275		1	60	.35 h.	.350
	1	60	.25 h.	.250		1	60	.25 h.	.250
	1	60	.225 h.	.225		2	60	.20 h.	.200
	1	60	.175 h.	.175	Engineers, skidder.	2	60	.45 h.	.450
Carpenters' helpers	1	60	.14 h.	.140		1	60	.30 h.	.300
	1	60	.125 h.	.125	Engineers, tram...	1	60	.35 h.	.350
	1	60	.115 h.	.115	Engineers, wood-mill.....	1	60	.35 h.	.350
Chippers and notchers.....	6	60	.375 h.	.375	Feeders.....	1	60	.175 h.	.175
Choker hookers.....	55	60	.35 h.	.350		1	‡70	10.00 w.	.167
	8	60	‡ 275 h.	‡ 275		2	60	.15 h.	.150
	3	60	‡ 25 h.	‡ 250		6	‡70	.125 h.	.125
	2	60	.25 h.	.250	Filters.....	1	60	127.00 m.	.488
	9	60	‡ 20 h.	‡ 200		1	60	.45 h.	.450
Choppers.....	5	60	.30 h.	.300		1	60	.40 h.	.400
	1	60	.225 h.	.225		1	60	3.75 d.	.375
Chore boys.....	1	60	.125 h.	.125		2	60	.30 h.	.300
	1	60	.10 h.	.100		1	60	.275 h.	.275
	1	60	.075 h.	.075		3	60	.250 h.	.250
Civil engineers.....	1	60	150.00 m.	.577		3	60	.225 h.	.225
Cooks.....	1	‡70	‡175.00 m.	‡ 577		1	60	.20 h.	.200
	3	60	‡ 333 h.	‡ 333	Firemen, donkey..	3	60	.175 h.	.175
	1	‡70	‡100.00 m.	‡ 330		2	60	.20 h.	.200
	1	‡70	‡93.50 m.	‡ 308		5	60	.173 h.	.175
	1	60	.30 h.	.300		2	60	.16 h.	.160
	1	‡70	‡70.00 m.	‡ 231		3	60	.15 h.	.150
	1	‡70	.225 h.	.225		1	60	.14 h.	.140
	1	60	.20 h.	.200		1	60	.135 h.	.135
	1	‡70	‡45.00 m.	‡ 148		2	60	.125 h.	.125
	1	60	‡35.00 m.	‡ 135	Firemen, incline...	1	60	.25 h.	.250
	1	‡70	‡35.00 m.	‡ 115		2	60	.225 h.	.225
	1	‡70	‡1.00 d.	‡ 100	Firemen, loader....	5	60	.25 h.	.250
	1	‡70	‡.05 h.	‡ 050		9	60	.20 h.	.200
Cookees.....	1	‡70	.40 h.	.400		2	60	.175 h.	.175
	4	60	‡ 25 h.	‡ 250		4	60	.15 h.	.150
	1	‡70	‡75.00 m.	‡ 247	Firemen, skidder..	2	60	.45 h.	.450
	1	60	(1)	‡ 237		2	60	.30 h.	.300
	5	60	‡ 225 h.	‡ 225		1	60	.25 h.	.250
	1	‡70	‡67.50 m.	‡ 223		1	60	.225 h.	.225
	4	60	.175 h.	.175		2	60	.15 h.	.150
	1	60	.15 h.	.150	Firemen, tram.....	1	60	.25 h.	.250
	1	‡70	‡27.00 m.	‡ 089	Flume men.....	2	60	.30 h.	.300

‡ More than one rate.

* And board.

‡ 7 days.

44 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

NORTH CAROLINA—Continued.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Flume men.....	1	60	\$65.00 m.	\$0.250	Loader crew.....	4	60	\$0.20 h.	\$0.200
	29	60	.25 h.	.250		5	60	.20 h.	.200
	1	60	.20 h.	.200		18	60	.175 h.	.175
Flunkeys.....	1	60	1.25 d.	.125		3	60	.165 h.	.165
Grab-drivers.....	1	60	.425 h.	.425		5	60	.16 h.	.160
	1	60	.375 h.	.375		42	60	.15 h.	.150
	6	60	.325 h.	.325		5	60	.14 h.	.140
	6	60	.175 h.	.175		5	60	.135 h.	.135
Grab-hookers.....	1	60	.25 h.	.250	Loader men.....	15	60	.125 h.	.125
	3	60	.20 h.	.200		2	60	.55 h.	.550
	2	60	.135 h.	.135		1	60	.45 h.	.450
	1	60	.125 h.	.125		3	60	2.375 h.	2.375
Haulers.....	1	60	.25 h.	.250		4	60	.35 h.	.350
	1	60	.225 h.	.225		2	60	2.325 h.	2.325
	5	60	.20 h.	.200		5	60	.30 h.	.300
	3	60	.175 h.	.175		6	60	2.25 h.	2.250
	7	60	.15 h.	.150		6	60	.25 h.	.250
	3	60	.14 h.	.140	Lobby men.....	2	60	2.25 h.	2.25
	15	60	.135 h.	.135	Log dump men....	2	60	2.15 h.	2.150
	27	60	.125 h.	.125		3	60	.14 h.	.140
Helpers, car build- ers.....	1	60	.175 h.	.175		1	60	.12 h.	.120
Helpers, car repair- ers.....	1	60	.20 h.	.200	Log pilers.....	1	60	.16 h.	.160
Helpers, engine.....	1	60	.20 h.	.200		1	60	.15 h.	.150
	2	60	.175 h.	.175	Machinists.....	1	60	.425 h.	.425
	1	60	.15 h.	.150		2	60	.40 h.	.400
	2	60	.125 h.	.125	Machinists' helpers	1	60	.375 h.	.375
Helpers, hostler....	1	60	.15 h.	.150		1	60	2.50 d.	.250
Helpers, incline....	1	60	.25 h.	.250		1	60	.25 h.	.250
	1	60	.225 h.	.225	Master mechanics..	1	60	.15 h.	.150
Helpers, locating roads.....	1	60	.125 h.	.125		1	60	2126.00 m.	2.485
Helpers, shop.....	2	60	.15 h.	.150		1	60	.425 h.	.425
Helpers, snaker....	1	60	.125 h.	.125	Mule boys.....	1	60	.30 h.	.300
Helpers, wood-mill.	1	60	.225 h.	.225		1	60	.115 h.	.115
	1	60	.135 h.	.135		3	60	.10 h.	.100
	2	60	.125 h.	.125	Notchers.....	1	60	.075 h.	.075
	1	60	.12 h.	.120		1	60	.35 h.	.350
Hookers.....	1	60	2.275 h.	2.275	Pumpmen.....	1	60	.275 h.	.275
	3	60	.16 h.	.160		1	470	.133 h.	.133
Hostlers.....	2	60	.15 h.	.150	Raft men.....	1	470	.10 h.	.100
Incline couplers....	1	60	.25 h.	.250		1	60	.20 h.	.200
	1	60	.225 h.	.225		2	60	.175 h.	.175
Incline machine men.....	3	60	.35 h.	.350	Repair men.....	1	60	.15 h.	.150
Knot bumpers.....	12	60	.175 h.	.175		1	60	.125 h.	.125
Laborers.....	2	60	.175 h.	.175		1	60	.375 h.	.375
	1	60	.155 h.	.155		2	60	.35 h.	.350
	105	60	.15 h.	.150	Riggers.....	3	60	.25 h.	.250
	1	60	.14 h.	.140		2	60	2.325 h.	2.325
	20	60	.125 h.	.125		1	60	.30 h.	.300
	5	60	.10 h.	.100		2	60	.275 h.	.275
Landing men.....	1	60	.325 h.	.325		1	60	2.225 h.	2.225
	2	60	2.225 h.	2.225		3	60	2.20 h.	2.200
	3	60	.225 h.	.225		4	60	.20 h.	.200
	3	60	2.15 h.	2.150	Riggers, first.....	2	60	2.175 h.	2.175
Lever men.....	6	60	2.50 h.	2.500		2	60	2.50 h.	2.500
	4	60	.50 h.	.500	Right-of-way men..	12	60	2.40 h.	2.400
	1	60	2.40 h.	2.400		1	60	2.90.00 m.	2.346
	2	60	.40 h.	.400		1	60	.30 h.	.300
	2	60	.285 h.	.285		1	60	.25 h.	.250
	1	60	.25 h.	.250	Road builders.....	1	60	.20 h.	.200
	1	60	.225 h.	.225		1	60	.50 h.	.500
	1	60	.20 h.	.200		1	60	.45 h.	.450
	1	60	.175 h.	.175		1	60	2115.00 m.	2.442
Linemen.....	1	60	134.40 m.	.517		1	60	.30 h.	.300
	3	60	.20 h.	.200		1	60	.25 h.	.250
Loader crew.....	1	60	2.30 h.	2.300	Road cutters.....	1	60	.25 h.	.250
	1	60	.25 h.	.250		1	60	.20 h.	.200
	1	60	.225 h.	.225		3	60	.15 h.	.150

² And board.

⁴ 7 days.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

NORTH CAROLINA—Concluded.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Road cutters.....	1	60	\$0.125 h.	\$0.125	Skidder men.....	1	60	\$0.375 h.	\$0.375
	1	60	.115 h.	.115		1	60	.35 h.	.350
Road men.....	6	60	.30 h.	.300		4	60	.30 h.	.300
	18	60	.25 h.	.250		2	60	.275 h.	.275
	1	60	.225 h.	.225		2	60	.25 h.	.250
	25	60	.20 h.	.200		2	60	.225 h.	.225
	14	60	.15 h.	.150		8	60	.20 h.	.205
	1	60	.14 h.	.140	Snakers.....	1	60	.175 h.	.170
	6	60	.135 h.	.135		3	60	2.00 d.	2.000
	14	60	.125 h.	.125		2	60	1.75 d.	.175
	1	60	.12 h.	.120		2	60	1.50 d.	.150
	2	60	.10 h.	.100	Splitters.....	2	60	.15 h.	.150
Rod men.....	1	60	.30 h.	.300	Stake out men.....	1	60	.50 h.	.500
Sand driers.....	1	60	.75 d.	.075		1	60	.40 h.	.400
Sawyers.....	1	60	4.00 d.	4.000	Swampers.....	19	60	.225 h.	.225
	15	60	.375 h.	.375		4	60	.20 h.	.200
	2	60	.36 h.	.360		14	60	.15 h.	.150
	1	60	.30 h.	.300		1	60	1.35 d.	.135
	1	60	2.50 d.	.250		4	60	1.25 d.	.125
	16	60	.25 h.	.250	Swampers, buck... ¹	1	60	(1)	1.284
	1	60	2.25 d.	.225		1	60	.25 h.	.250
	9	60	.225 h.	.225	Tally men (at loader).....	1	60	.225 h.	.225
	13	60	.20 h.	.200	Team crew.....	16	60	.15 h.	.150
	2	60	1.75 d.	.175		2	60	.135 h.	.135
	21	60	1.50 d.	.150		6	60	.125 h.	.125
	5	60	.15 h.	.150	Teamsters.....	3	60	.40 h.	.400
	5	60	1.25 d.	.125		2	60	3.00 d.	.300
	1	60	.125 h.	.125		13	60	2.70 d.	.270
Scalers.....	1	60	² 136.00 m.	² .523		6	60	2.50 d.	.250
	1	60	² 119.00 m.	² .458		2	60	.225 h.	.225
	1	60	.40 h.	.400		11	60	2.00 d.	.200
	1	60	.35 h.	.350		1	60	² .20 h.	² .200
	1	60	20.00 w.	.333		2	60	1.75 d.	.175
	1	60	80.00 m.	.308		18	60	1.50 d.	.150
	1	60	.30 h.	.300	Teamsters, head... ²	3	60	.125 h.	.125
	1	60	.275 h.	.275	Timber cutters....	1	60	.475 h.	.475
	1	60	70.00 m.	.269		2	60	² .20 h.	² .200
	2	60	.25 h.	.250	Tong hookers.....	1	60	.29 h.	.290
	2	60	.225 h.	.225		3	60	² .25 h.	² .250
	3	60	.20 h.	.200		3	60	.25 h.	.250
Signal men.....	3	60	.20 h.	.200		2	60	.225 h.	.225
	2	60	² .15 h.	² .150		1	60	.20 h.	.200
Skidder crew.....	3	60	² .275 h.	² .275		1	60	.175 h.	.175
	40	60	² .25 h.	² .250	Top loaders.....	1	60	.29 h.	.290
	8	60	.25 h.	.250		2	60	.25 h.	.250
	5	60	.225 h.	.225	Tractor drivers....	1	60	.60 h.	.600
	7	60	.20 h.	.200		1	60	.50 h.	.500
	1	60	.18 h.	.180	Tree rig hookers... ³	3	60	.20 h.	.200
	3	60	.175 h.	.175	Tree rig operators... ²	2	60	.225 h.	.225
	3	60	.16 h.	.160	Utility men.....	1	60	.15 h.	.150
	21	60	.15 h.	.150	Watchmen.....	1	60	.30 h.	.300
	2	60	.135 h.	.135		1	60	.20 h.	.200
	25	60	.125 h.	.125	Water boys.....	1	60	.20 h.	.200
	1	60	.115 h.	.115		2	60	.15 h.	.150
	1	60	.11 h.	.110		1	60	.135 h.	.135
	4	60	.10 h.	.100		1	60	.125 h.	.125
Skidder men.....	1	60	² 208.00 m.	² .800		1	60	.115 h.	.115
	1	60	180.00 m.	.692		9	60	.10 h.	.100
	1	60	.60 h.	.600		1	60	.09 h.	.090
	2	60	² 150.00 m.	² .577		1	60	.085 h.	.085
	1	60	² .50 h.	² .500		1	60	.08 h.	.080
	3	60	.50 h.	.500		6	60	.075 h.	.075
	3	60	.45 h.	.450	Yard men.....	1	60	.475 h.	.475
	1	60	112.50 m.	.433		1	60	.35 h.	.350
	4	60	.40 h.	.400					
	2	60	.386 h.	.386					
	1	60	² 100.00 m.	² .385					

¹ More than one rate.

² And board.

³ 47 days.

46 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

OREGON.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Barn men.....	1	48	\$4.50 d.	\$.563	Bull cooks.....	6	456	\$55.00 m.	\$0.227
Blacksmiths.....	1	48	9.00 d.	.900	4	56	40.00 m.	.137	
	5	48	6.25 d.	.781	2	48	3.80 d.	.475	
	2	48	6.00 d.	.750	2	48	3.52 d.	.440	
	1	54	\$5.50 d.	.688	1	48	7.50 d.	.938	
	1	48	5.40 d.	.675	1	48	6.00 d.	.750	
	1	48	5.00 d.	.625	2	48	5.25 d.	.656	
Blacksmiths' help- ers.....	1	48	4.50 d.	.563	1	48	4.50 d.	.563	
	2	54	\$4.25 d.	.531	2	48	5.25 d.	.656	
	1	48	4.20 d.	.525	2	48	5.00 d.	.625	
	1	54	\$4.00 d.	.500	2	48	4.80 d.	.600	
	3	48	4.00 d.	.500	19	48	4.75 d.	.594	
	1	48	3.80 d.	.475	18	54	\$4.60 d.	.575	
	1	48	3.60 d.	.450	9	48	4.60 d.	.575	
Boom men.....	1	48	5.75 d.	.719	29	48	4.50 d.	.563	
	4	48	5.50 d.	.688	9	48	4.40 d.	.550	
	1	48	5.20 d.	.650	1	48	4.25 d.	.531	
	1	48	4.90 d.	.617	15	48	4.20 d.	.525	
	3	48	4.40 d.	.550	32	48	5.00 d.	.625	
	1	48	4.20 d.	.525	17	48	4.75 d.	.594	
Buckers.....	1	48	(5)	.525	1	54	(1)	.586	
	1	48	(5)	.950	1	54	(1)	.581	
	1	48	(5)	.930	11	54	\$4.60 d.	.575	
	1	48	(5)	.888	39	48	4.60 d.	.575	
	1	48	(5)	.798	32	48	4.40 d.	.550	
	1	48	(5)	.791	4	48	4.20 d.	.525	
	1	48	(5)	.788	31	48	4.00 d.	.500	
	1	48	(5)	.787	3	48	\$200.00 m.	.962	
	1	48	(5)	.722	1	48	\$140.00 m.	.673	
	1	48	(5)	.710	1	48	\$115.00 m.	.553	
	1	48	(5)	.700	1	54	\$125.00 m.	.534	
	1	48	(5)	.698	2	56	\$100.00 m.	.515	
	1	48	(5)	.690	3	54	\$109.00 m.	.427	
	1	48	(5)	.679	1	84	\$150.00 m.	.412	
	1	48	(5)	.668	1	48	\$100.00 m.	.481	
	1	48	(5)	.645	1	48	\$115.00 m.	.474	
	1	48	(5)	.631	5	56	\$100.00 m.	.412	
	1	48	(5)	.610	1	54	\$90.00 m.	.385	
	1	48	(5)	.595	1	48	\$76.00 m.	.365	
	1	54	\$4.75 d.	.594	2	48	76.00 m.	.365	
	16	48	4.75 d.	.594	1	48	\$75.00 m.	.361	
	1	48	(5)	.587	1	54	\$75.00 m.	.321	
	1	48	(5)	.583	3	56	\$75.00 m.	.309	
	14	54	\$4.60 d.	.575	1	56	\$50.00 m.	.206	
	17	48	4.50 d.	.563	2	48	4.50 d.	.563	
	1	48	(5)	.551	4	48	76.00 m.	.365	
	51	48	4.40 d.	.550	1	48	\$65.00 m.	.313	
	1	48	(5)	.544	2	56	\$70.00 m.	.288	
	1	48	(5)	.541	1	48	\$55.00 m.	.264	
	48	48	4.25 d.	.531	1	54	\$55.00 m.	.235	
	1	48	(5)	.503	6	56	\$55.00 m.	.227	
	1	48	4.00 d.	.500	2	56	\$50.00 m.	.206	
	1	48	(5)	.486	Dishwashers, fe- male.....	1	56	\$50.00 m.	.206
	61	48	3.80 d.	.475	5	56	\$40.00 m.	.165	
	2	48	(5)	.464	Donkey-engine re- pairmen.....	1	54	\$6.00 d.	.750
	1	48	(5)	.463	3	48	6.00 d.	.750	
	1	48	(5)	.451	2	54	\$175.00 m.	.748	
	1	48	(5)	.435	2	54	\$5.50 d.	.688	
	1	48	(5)	.392	3	48	5.40 d.	.675	
	1	48	(5)	.375	1	56	\$125.00 m.	.515	
	1	48	(5)	.365	1	48	4.90 d.	.613	
	1	48	(5)	.264	1	48	3.50 d.	.438	
	1	48	(5)	.181	1	48	4.40 d.	.550	
Buckers, head....	1	48	175.00 m.	.843	1	48	\$80.00 d.	.889	
	1	48	6.00 d.	.750	1	48	6.50 d.	.813	
Bull cooks.....	2	48	5.00 d.	.625	1	48	5.80 d.	.725	
	1	48	3.80 d.	.475	1	48	5.00 d.	.625	
	3	48	3.25 d.	.406	1	470	165.00 m.	.544	
	1	48	2.80 d.	.350	1	54	(1)	.610	
	1	54	\$60.00 m.	.256	1	48	7.00 d.	.875	
	8	456	\$60.00 m.	.247					

¹ More than one rate.
² And board.

⁴ 7 days.
⁵ Piecework.

⁸ Per 8-hour day.
⁹ Per 9-hour day.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

OREGON—Continued.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Engineers, duplex.	3	48	\$6.50 d.	\$0.813	Fallers.....	1	48	(⁹)	\$0.363
	2	48	6.00 d.	.750		2	48	(⁹)	.346
Engineers, gas.....	2	48	6.00 d.	.750		1	48	(⁹)	.292
	1	48	4.00 d.	.500		1	48	(⁹)	.273
Engineers, loader..	1	48	9.00 d.	1.125		2	48	(⁹)	.269
	2	48	6.00 d.	.750		1	48	(⁹)	.252
	2	48	5.50 d.	.688	Filers.....	1	54	⁸ \$6.00 d.	.750
	2	48	5.40 d.	.675		2	48	6.00 d.	.750
	6	54	⁸ 5.00 d.	.625		2	48	5.75 d.	.719
	9	48	4.75 d.	.594		2	48	5.50 d.	.688
Engineers, rig.....	1	48	4.20 d.	.525		3	48	5.20 d.	.650
Engineers, roader..	1	48	4.20 d.	.525		2	48	5.00 d.	.625
	1	54	⁸ 5.50 d.	.688		1	54	⁸ 4.90 d.	.613
	1	54	(¹)	.640		1	48	4.80 d.	.600
	6	54	⁸ 5.00 d.	.625	Firemen.....	1	54	⁸ 5.00 d.	.625
	2	48	4.75 d.	.594		2	48	4.00 d.	.500
Engineers, sky line	1	48	6.00 d.	.750		13	54	⁸ 3.75 d.	.469
	2	48	5.40 d.	.675		15	48	3.75 d.	.469
Engineers, swing...	1	48	5.50 d.	.688		28	48	3.60 d.	.450
	5	48	5.20 d.	.650		5	48	3.50 d.	.438
	6	48	4.75 d.	.594		1	48	¹⁰ 4.25 d.	.425
Engineers, two speed.....	3	48	6.00 d.	.750		12	48	3.40 d.	.425
Engineers, yarder..	2	48	7.00 d.	.875		3	48	3.25 d.	.406
	5	48	6.50 d.	.813		5	48	3.20 d.	.400
	5	48	6.00 d.	.750	Fire patrolmen....	1	48	3.00 d.	.375
	5	54	⁸ 5.50 d.	.688		1	48	4.40 d.	.550
	4	48	5.50 d.	.688	Fire wardens.....	1	48	3.50 d.	.438
	3	48	5.40 d.	.675		1	48	3.25 d.	.406
	11	48	5.20 d.	.650	Flunkkeys, male....	1	48	² 55.00 m.	2.264
	1	54	⁸ 5.00 d.	.625		2	46	² 60.00 m.	2.247
	7	48	4.75 d.	.594	Flunkkeys, female..	1	46	² 60.00 m.	2.247
Fallers.....	1	48	(⁵)	.574		4	54	² 55.00 m.	2.235
	1	48	(⁵)	.574	Gas-engine sawyers	8	48	5.20 d.	.650
	3	48	(⁵)	.614		1	48	3.85 d.	.481
	1	48	(⁵)	.780		2	48	3.60 d.	.450
	1	48	(⁵)	.772	Gophers.....	1	48	3.50 d.	.438
	1	48	(⁵)	.769		2	48	3.80 d.	.475
	1	48	(⁵)	.757	Hewers.....	3	48	3.52 d.	.440
	1	48	(⁵)	.746		1	48	6.00 d.	.750
	1	48	(⁵)	.703	High climbers.....	1	48	² 8.00 d.	2.1000
	2	48	(⁵)	.702		1	54	⁸ 8.00 d.	1.000
	21	48	5.50 d.	.688		2	48	8.00 d.	1.000
	1	54	(¹)	.687		2	48	7.50 d.	.938
	1	48	(⁵)	.684		1	48	7.40 d.	.925
	1	48	(⁵)	.675	Hook tenders.....	3	48	7.20 d.	.900
	1	48	(⁵)	.659		1	48	9.00 d.	1.125
	8	54	⁸ 5.25 d.	.656		4	48	8.25 d.	1.031
	1	48	5.25 d.	.656		4	48	² 8.00 d.	2.1000
	2	48	(⁵)	.653		4	54	⁸ 8.00 d.	1.000
	1	48	(⁵)	.638		4	48	8.00 d.	1.000
	45	48	5.00 d.	.625		1	54	(¹)	.976
	2	48	(⁵)	.614		1	48	² 200.00 m.	2.962
	9	54	⁸ 4.75 d.	.594		5	48	7.40 d.	.925
	42	48	4.75 d.	.594		9	48	7.20 d.	.900
	2	48	(⁵)	.591		1	54	⁹ 8.00 d.	.889
	2	48	(⁵)	.586		2	48	7.00 d.	.875
	1	48	(⁵)	.585	Kitchen help.....	3	48	4.50 d.	.563
	28	48	4.50 d.	.563		1	46	² 65.00 m.	2.313
	1	48	(⁵)	.552		1	48	² 70.00 m.	2.288
	18	48	4.40 d.	.550	Laborers.....	1	48	² 55.00 m.	2.264
	2	48	(⁵)	.544		1	48	4.00 d.	.500
	1	48	(⁵)	.529		1	48	3.60 d.	.450
	1	48	4.20 d.	.525		6	48	3.25 d.	.406
	2	48	(⁵)	.523	Leathermen.....	2	48	2.80 d.	.350
	2	48	(⁵)	.521		1	48	5.15 d.	.644
	1	48	(⁵)	.515	Levermen.....	3	48	7.50 d.	.938
	50	48	4.00 d.	.500	Limbers.....	1	48	3.68 d.	.460
	1	48	(⁵)	.498		17	48	3.36 d.	.420

¹ More than one rate.
² And board.
⁴ 7 days.
⁶ Piecework.

⁸ Per 8-hour day.
⁹ Per 9-hour day.
¹⁰ Per 10-hour day.

48 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

OREGON—Concluded.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Loaders.....	3	48	\$6.00 d.	\$0.750	Scalers.....	5	48	\$5.20 d.	\$0.650
	1	48	5.80 d.	.725		1	48	125.00 m.	.601
	6	48	5.50 d.	.688		1	48	4.50 d.	.563
	1	48	5.20 d.	.650		1	48	4.32 d.	.540
	2	48	5.00 d.	.625	Signalmen.....	1	48	4.00 d.	.500
	9	48	4.75 d.	.594		5	48	4.00 d.	.500
	5	54	4.60 d.	.575		3	48	3.75 d.	.469
	1	48	4.60 d.	.575		3	54	3.60 d.	.450
	3	48	4.40 d.	.550		1	48	3.60 d.	.450
	3	48	4.00 d.	.500		2	48	3.50 d.	.438
	2	48	3.50 d.	.438		5	48	3.40 d.	.425
Loaders, head.....	1	48	3.20 d.	.400		2	48	3.25 d.	.406
	1	48	9.00 d.	1.125		2	48	3.20 d.	.400
	1	48	8.00 d.	1.000		1	48	(1)	.379
	2	48	7.60 d.	.950		3	48	3.00 d.	.375
	2	48	7.50 d.	.938	Skidder.....	2	48	2.95 d.	.369
	1	48	7.20 d.	.900		1	48	7.50 d.	.938
	7	48	7.00 d.	.875	Swampers.....	1	48	7.00 d.	.875
	3	48	6.75 d.	.844		1	48	4.40 d.	.550
	1	48	6.50 d.	.813		1	48	4.00 d.	.500
	1	48	6.40 d.	.800		2	48	3.60 d.	.450
	4	54	5.40 d.	.675		1	48	3.20 d.	.400
	6	48	5.40 d.	.675	Teamsters.....	31	48	2.80 d.	.350
Machinists.....	2	48	7.50 d.	.938		1	48	5.50 d.	.688
	1	48	7.00 d.	.875		15	48	4.50 d.	.563
	2	48	6.75 d.	.844		1	48	(1)	.560
Machinists' helpers	1	48	4.40 d.	.550		1	48	4.20 d.	.525
Master mechanics..	1	48	7.40 d.	.925	Timber cruisers....	1	48	4.00 d.	.500
Mechanics.....	1	48	5.40 d.	.675	Tong men.....	5	48	6.00 d.	.750
Pipe fitters.....	1	48	4.60 d.	.575	Waiters.....	6	48	76.00 m.	.365
	1	48	3.00 d.	.375		13	48	255.00 m.	2.264
Powder men.....	1	48	4.00 d.	.500	Waitresses.....	11	56	260.00 m.	2.247
Pumpmen.....	1	48	5.00 d.	.625		10	56	255.00 m.	2.227
	1	48	4.20 d.	.525		2	56	250.00 m.	2.206
	1	48	4.00 d.	.500	Watchmen.....	4	56	240.00 m.	2.165
	2	48	3.75 d.	.469		5	56	3.75 d.	.469
	2	48	3.50 d.	.438		1	48	3.60 d.	.450
	1	56	2.90.00 m.	2.371		2	56	100.00 m.	.412
Riggers.....	1	48	5.00 d.	.625		1	48	3.80 d.	.317
	1	54	4.90 d.	.613	Wheel tenders.....	1	48	3.20 d.	.267
	5	48	4.75 d.	.594	Wheelwrights.....	1	48	3.80 d.	.475
	8	54	4.60 d.	.575	Wood buckers.....	1	48	5.52 d.	.690
	9	48	4.60 d.	.575		2	54	4.60 d.	.575
	47	48	4.50 d.	.563		1	54	(1)	.566
	3	54	4.40 d.	.550		1	48	4.50 d.	.563
	1	48	4.40 d.	.550		1	54	(1)	.522
	1	48	3.25 d.	.406		1	48	4.00 d.	.500
Riggers, head.....	1	54	8.00 d.	1.000		25	54	3.75 d.	.469
	1	54	8.00 d.	.889		2	54	3.60 d.	.450
	3	48	6.60 d.	.825		3	48	3.60 d.	.450
	1	48	6.50 d.	.813		10	48	3.50 d.	.438
	1	48	6.40 d.	.800		1	54	(1)	.429
	1	48	6.20 d.	.775		1	54	(1)	.417
	3	48	6.00 d.	.750		37	48	3.25 d.	.406
	5	48	5.75 d.	.719		1	48	3.20 d.	.400
	4	54	5.50 d.	.688		22	48	3.00 d.	.375
	7	48	5.50 d.	.688		1	56	281.50 m.	2.336
	3	48	5.40 d.	.675	Yarders.....	1	56	275.00 m.	2.309
	7	48	5.20 d.	.650		1	48	4.00 d.	.500
	1	54	5.50 d.	.611		2	48	3.80 d.	.475
Rigger slingers.....	2	48	5.00 d.	.625		1	48	3.52 d.	.440
	4	48	4.40 d.	.550		1	56	270.00 m.	2.288
Scalers.....	1	54	162.00 m.	.692					

1 More than one rate.
2 And board.
4 7 days.

8 Per 8-hour day.
9 Per 9-hour day.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

WASHINGTON.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Axmen.....	1	48	\$4.50 d.	\$0.563	Buckers.....	1	48	(⁵)	\$0.767
Bakers.....	1	48	² 100.00 m.	² .481		1	48	(⁵)	.763
	1	⁴ 56	² 90.00 m.	² .371		2	48	(⁵)	.762
	1	⁴ 98	² 85.00 m.	² .200		1	48	(⁵)	.759
Bed makers.....	1	48	² 75.00 m.	² .361		1	48	(⁵)	.741
	1	⁴ 56	² 65.00 m.	² .268		1	48	(⁵)	.739
	1	⁴ 56	² 60.00 m.	² .247		1	48	(⁵)	.738
	2	48	² 50.00 m.	² .240		1	48	(⁵)	.737
	1	⁴ 56	² 55.00 m.	² .227		1	48	(⁵)	.736
	2	⁴ 56	² 50.00 m.	² .206		2	48	(⁵)	.727
	1	⁴ 98	² 50.00 m.	² .118		2	48	(⁵)	.725
Blacksmiths.....	4	48	6.00 d.	.750		1	48	(⁵)	.721
	1	48	5.60 d.	.700		1	48	(⁵)	.718
	2	48	5.50 d.	.688		1	48	(⁵)	.715
	1	48	5.25 d.	.656		2	48	(⁵)	.709
	2	48	5.15 d.	.644		1	48	(⁵)	.708
	4	48	5.00 d.	.625		3	48	(⁵)	.702
	4	48	4.80 d.	.600		2	48	(⁵)	.697
	2	48	4.60 d.	.575		1	48	(⁵)	.694
Blacksmiths, second.....	1	48	4.20 d.	.525		1	48	(⁵)	.691
Blacksmiths' helpers.....	1	48	4.20 d.	.525		1	48	(⁵)	.688
	2	48	5.00 d.	.625		1	48	(⁵)	.686
	2	48	4.80 d.	.600		1	48	(⁵)	.684
	1	48	4.50 d.	.563		1	48	(⁵)	.680
	1	48	4.25 d.	.531		1	48	(⁵)	.675
	6	48	4.00 d.	.500		1	48	(⁵)	.674
	1	48	3.75 d.	.469		2	48	(⁵)	.673
	1	48	3.60 d.	.450		1	48	(⁵)	.670
	2	48	3.40 d.	.425		1	48	(⁵)	.667
Boilermakers.....	1	48	6.00 d.	.750		1	48	(⁵)	.657
Boom men.....	1	48	150.00 m.	.721		1	48	(⁵)	.653
	1	48	135.00 m.	.649		1	48	(⁵)	.646
	1	⁴ 56	150.00 m.	.618		1	48	(⁵)	.638
	1	48	4.90 d.	.613		22	48	\$5.10 d.	.638
	1	48	4.50 d.	.563		2	48	(⁵)	.634
	1	⁴ 56	135.00 m.	.556		1	48	(⁵)	.625
	10	48	4.40 d.	.550		15	48	5.00 d.	.625
	8	48	² 3.75 d.	² .469		1	48	(⁵)	.623
	1	⁴ 98	5.50 d.	.393		1	48	(⁵)	.619
	1	⁴ 98	4.25 d.	.304		1	48	(⁵)	.616
	1	⁴ 98	² 4.00 d.	² .286		1	48	(⁵)	.607
	1	⁴ 98	4.00 d.	.286		1	48	(⁵)	.605
Boom men, head.....	1	⁴ 56	² 5.25 d.	² .656		1	48	(⁵)	.601
Brakemen.....	1	48	140.00 m.	.673		2	48	(⁵)	.595
Bridgemen.....	1	48	8.50 d.	1.063		18	48	4.75 d.	.593
	1	48	5.50 d.	.688		1	48	(¹)	.592
	1	48	5.00 d.	.625		1	48	(⁵)	.588
	1	48	4.75 d.	.594		1	48	(⁵)	.586
	5	48	4.50 d.	.563		1	48	(¹)	.579
	3	48	4.00 d.	.500		1	48	(⁵)	.578
	1	48	3.00 d.	.375		1	48	(¹)	.577
Buckers.....	1	48	(⁵)	1.519		1	48	(⁵)	.576
	1	48	(⁵)	.945		1	48	(¹)	.573
	1	48	(⁵)	.943		1	48	(⁵)	.567
	1	48	(⁵)	.909		1	48	(⁵)	.565
	1	48	(⁵)	.899		22	48	4.50 d.	.563
	1	48	(⁵)	.897		1	48	(⁵)	.561
	1	48	(⁵)	.882		3	48	4.40 d.	.550
	2	48	(⁵)	.874		1	48	(⁵)	.546
	1	48	(⁵)	.864		1	48	(⁵)	.537
	1	48	(⁵)	.838		1	48	(⁵)	.534
	1	48	(⁵)	.830		1	48	(⁵)	.533
	1	48	(⁵)	.826		30	48	4.25 d.	.531
	1	48	(⁵)	.819		1	48	(⁵)	.526
	1	48	(⁵)	.814		175	48	4.00 d.	.500
	3	48	(⁵)	.795		3	48	(¹)	.486
	1	48	(⁵)	.787		1	48	(¹)	.481
	1	48	(⁵)	.783		1	48	(⁵)	.477
	1	48	(⁵)	.773		55	48	3.80 d.	.475

¹ More than one rate.

² And board.

⁴ 7 days.

⁵ Piecework.

50 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

WASHINGTON—Continued.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Buckers.....	15	48	\$3.76 d.	\$0.470	Chasers.....	1	48	(1)	\$0.569
	1	48	3.75 d.	.469		8	48	\$4.50 d.	.563
	2	48	(6)	.458		1	48	(1)	.554
	2	48	(6)	.456		11	48	4.25 d.	.531
	1	48	(1)	.453		1	48	(1)	.523
	1	48	(1)	.446		1	48	4.00 d.	.515
	1	48	3.50 d.	.444		1	48	4.00 d.	.513
	1	48	(6)	.442		1	48	(1)	.512
	1	48	(6)	.440		1	48	(1)	.506
	1	48	3.52 d.	.440		16	48	4.00 d.	.500
	1	48	(6)	.432		2	48	(1)	.500
	1	48	3.44 d.	.430		14	48	3.80 d.	.475
	1	48	(6)	.413		8	48	3.75 d.	.469
	1	48	(6)	.353		10	48	3.52 d.	.440
	1	48	(6)	.300		6	48	3.50 d.	.438
	1	48	(6)	.212	Chokers.....	1	48	5.00 d.	.625
Buckers, head.....	1	48	(1)	.795		9	48	4.50 d.	.563
	1	48	185.00 m.	.762		5	48	4.00 d.	.535
	1	48	5.75 d.	.719		21	48	4.25 d.	.531
	1	48	5.50 d.	.688		1	48	4.00 d.	.525
	2	48	5.00 d.	.625		1	48	(1)	.512
	1	48	150.00 m.	.618		1	48	(1)	.511
Buckers, second ...	7	48	3.25 d.	.406		1	48	(1)	.509
Bull bucks.....	2	48	5.50 d.	.688		121	48	4.00 d.	.500
	1	48	5.00 d.	.625		41	48	3.80 d.	.475
	1	48	4.80 d.	.600		1	48	(1)	.474
	1	48	125.00 m.	.515		63	48	3.75 d.	.469
	1	48	4.00 d.	.500		7	48	3.52 d.	.440
Bull cooks.....	1	48	4.50 d.	.563		11	48	3.50 d.	.438
	1	48	115.00 m.	.553	Chunk outs.....	1	48	5.20 d.	.650
	1	48	115.00 m.	.474		1	48	150.00 m.	.721
	1	48	85.00 m.	.409	Cooks, male.....	2	48	140.00 m.	.672
	1	48	80.00 m.	.385		1	48	(1)	.660
	1	48	3.00 d.	.375		3	48	150.00 m.	.618
	1	48	90.00 m.	.371		1	48	145.00 m.	.598
	1	48	75.00 m.	.361		1	48	100.00 m.	.481
	1	48	70.00 m.	.337		2	48	150.00 m.	.412
	1	48	75.00 m.	.309		1	48	140.00 m.	.385
	1	48	(1)	.301		1	48	135.00 m.	.371
	1	48	55.00 m.	.264		3	48	150.00 m.	.353
	2	48	60.00 m.	.247		4	48	140.00 m.	.330
	1	48	50.00 m.	.240		3	48	135.00 m.	.318
	2	48	55.00 m.	.227		1	48	115.00 m.	.271
	1	48	45.00 m.	.216	Cooks, female.....	1	48	150.00 m.	.618
	1	48	50.00 m.	.206	Cooks, second, male	4	48	106.50 m.	.439
	2	48	75.00 m.	.177		1	48	101.50 m.	.418
	2	48	75.00 m.	.177		2	48	80.00 m.	.385
	1	48	65.00 m.	.153		1	48	85.00 m.	.350
	3	48	50.00 m.	.118		1	48	81.50 m.	.336
Car oilers.....	1	48	50.00 m.	.206		2	48	75.00 m.	.309
Carpenters.....	1	48	6.00 d.	.750		1	48	70.00 m.	.288
	5	48	5.50 d.	.688		2	48	90.00 m.	.212
	4	48	5.00 d.	.625		2	48	80.00 m.	.188
	1	48	4.80 d.	.600		7	48	75.00 m.	.177
	2	48	4.75 d.	.594		1	48	70.00 m.	.165
	1	48	4.60 d.	.575	Cooks, second, fe-	2	48	85.00 m.	.234
	2	48	4.00 d.	.500	male.....	2	48	55.00 m.	.264
Carpenters' helpers	1	48	4.00 d.	.500	Dishwashers, male.	1	48	60.00 m.	.247
Car repairers.....	1	48	5.00 d.	.625		1	48	50.00 m.	.240
	1	48	4.75 d.	.594		1	48	55.00 m.	.227
	1	48	4.20 d.	.525		3	48	50.00 m.	.206
Car repairers' help-	1	48	4.00 d.	.500		3	48	50.00 m.	.218
ers.....	1	48	3.75 d.	.469		1	48	45.00 m.	.106
	1	48	3.40 d.	.425	Dishwashers, fe-	2	48	81.50 m.	.336
	4	48	4.90 d.	.613	male.....	2	48	50.00 m.	.206
	1	48	(1)	.609	Donkey engine re-	1	48	210.00 m.	1.010
	1	48	(1)	.608	pairmen.....	1	48	(1)	.717
	3	48	4.75 d.	.594					
	1	48	(1)	.576					

¹ More than one rate.

² And board.

³ 7 days.

⁴ Piecework.

⁵ And bonus.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

WASHINGTON—Continued.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Drag sawyers.....	1	48	(1)	\$0.572	Fallers.....	1	48	(5)	\$0.773
	2	48	\$4.25 d.	.531		1	48	(5)	.770
	1	48	4.00 d.	.500		1	48	(5)	.763
Engineers.....	1	48	6 6.00 d.	1.030		2	48	(5)	.756
	1	48	185.00 m.	.889		1	48	(5)	.752
	1	48	(1)	.798		1	48	(5)	.751
	1	48	(1)	.795		1	48	\$6.00 d.	.750
	2	48	6 6.00 d.	.784		2	48	(5)	.749
	1	48	6 6.00 d.	.773		2	48	(5)	.744
	2	48	(1)	.753		1	48	(5)	.739
	2	48	6.00 d.	.750		2	48	(5)	.732
	1	48	5.80 d.	.725		1	48	(5)	.725
	1	48	(4)	.715		1	48	(5)	.724
	5	48	5.60 d.	.700		2	48	(5)	.721
	13	48	5.50 d.	.694		2	48	(5)	.717
	5	48	5.40 d.	.675		1	48	(5)	.716
	1	48	(1)	.671		1	48	(5)	.705
	6	48	5.25 d.	.656		2	48	(5)	.688
	8	48	5.20 d.	.650		17	48	5.50 d.	.688
	1	48	(1)	.643		2	48	(5)	.668
	1	48	(1)	.637		1	48	(1)	.660
	2	48	(1)	.631		4	48	5.25 d.	.656
	20	48	5.00 d.	.625		10	48	5.10 d.	.650
	10	48	4.80 d.	.600		2	48	(5)	.648
	11	48	4.75 d.	.594		1	48	(5)	.636
	1	48	120.00 m.	.577		1	48	(1)	.633
	5	48	4.60 d.	.575		1	48	(5)	.629
	7	48	4.50 d.	.563		1	48	(5)	.625
	7	48	4.40 d.	.550		34	48	5.00 d.	.625
	5	48	4.20 d.	.525		1	48	(1)	.617
	6	48	4.00 d.	.500		1	48	(1)	.603
	1	48	3.50 d.	.433		11	48	4.75 d.	.594
	1	48	80.00 m.	.385		1	48	(1)	.594
	1	48	3.00 d.	.375		1	48	(1)	.588
Extra men.....	1	48	5.50 d.	.638		1	48	(5)	.583
	3	48	5.00 d.	.625		1	48	(5)	.582
	1	48	4.50 d.	.563		2	48	(5)	.576
	1	48	4.25 d.	.581		1	48	(1)	.571
	1	48	4.00 d.	.500		2	48	(5)	.566
	2	48	3.50 d.	.433		2	48	(5)	.565
	1	48	3.00 d.	.375		1	48	(5)	.563
Fallers.....	1	48	(5)	1.204		63	48	4.50 d.	.563
	1	48	(5)	1.179		2	48	(5)	.557
	1	48	(5)	1.177		1	48	(1)	.554
	1	48	(5)	1.110		2	48	(5)	.547
	2	48	(5)	1.082		2	48	(5)	.531
	2	48	(5)	1.005		2	48	(5)	.505
	2	48	(5)	.984		33	48	4.40 d.	.503
	2	48	(5)	.932		33	48	4.25 d.	.500
	2	48	(5)	.919		3	48	(5)	.500
	1	48	(5)	.909		54	48	4.00 d.	.500
	1	48	(5)	.899		2	48	(5)	.477
	1	48	(5)	.891		2	48	(5)	.419
	1	48	(5)	.889		1	48	75.00 m.	.361
	1	48	(5)	.880	Fallers and buckers	1	48	(5)	.367
	1	48	(5)	.879		1	48	(5)	.794
	1	48	(5)	.878		1	48	(5)	.719
	1	48	(5)	.869		2	48	(5)	.666
	2	48	(5)	.861	Filers.....	1	48	6.50 d.	.813
	6	48	(5)	.856		1	48	(1)	.803
	1	48	(5)	.846		2	48	(1)	.784
	2	48	(5)	.845		2	48	6.00 d.	.750
	4	48	(5)	.841		1	48	5.50 d.	.688
	2	48	(5)	.837		2	48	5.25 d.	.656
	1	48	(5)	.830		5	48	5.00 d.	.625
	1	48	(5)	.824		1	48	125.00 m.	.601
	2	48	(5)	.822		1	48	4.60 d.	.575
	2	48	(5)	.796	Filers second.....	2	48	5.00 d.	.625
	1	48	(5)	.792	Firemen.....	1	48	120.00 m.	.577
	2	48	(5)	.787		1	48	3.75 d.	.506
	4	48	(5)	.781		8	48	4.00 d.	.500

¹ More than one rate.
² And board.

* Piecework.
 † And bonus.

52 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

WASHINGTON—Continued.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Firemen.....	1	48	\$3.75 d.	\$0.490	Hookers, second....	4	48	\$4.50 d.	\$0.563
	1	48	3.75 d.	.483		2	48	3.50 d.	.438
	1	48	3.80 d.	.475	Hook tenders.....	1	48	8.50 d.	1.060
	10	48	3.75 d.	.469		1	48	(1)	1.047
	2	48	(1)	.455		2	48	8.00 d.	1.000
	1	48	(1)	.440		3	48	7.50 d.	.938
	1	48	(1)	.439		1	48	7.00 d.	.914
	21	48	3.50 d.	.438		29	48	7.00 d.	.875
	1	48	(1)	.436		1	48	6.80 d.	.850
	6	48	3.40 d.	.425		2	48	6.75 d.	.844
	8	48	3.25 d.	.406		3	48	6.40 d.	.800
	39	48	3.00 d.	.375	Kitchen helpers...	2	48	6.00 d.	.750
	23	48	2.80 d.	.350		2	48	55.00 m.	2.264
	11	48	4.00 d.	.500		1	48	1.84 d.	2.230
Flunkys.....	1	48	110.00 m.	.453		1	48	55.00 m.	2.227
	2	48	3.20 d.	.400	Knifermen.....	1	48	3.20 d.	.400
	1	48	75.00 m.	2.309	Knotters.....	1	48	4.25 d.	.531
	1	48	(1)	.289		3	48	3.60 d.	.450
	1	48	(1)	.288		4	48	3.50 d.	.438
	6	48	50.00 m.	2.240		2	48	3.40 d.	.425
	1	48	55.00 m.	2.227	Laborers.....	1	48	3.25 d.	.406
	1	48	45.00 m.	2.216	Levermen.....	4	48	3.50 d.	.438
	6	48	50.00 m.	2.206		1	48	7.00 d.	.932
	4	48	40.00 m.	2.192		1	48	7.00 d.	.923
	5	48	40.00 m.	2.192		2	48	5.50 d.	.688
	1	48	60.00 m.	2.141		3	48	5.25 d.	.656
	6	48	50.00 m.	2.118	Loaders.....	1	48	6.50 d.	.869
	9	48	45.00 m.	2.106		4	48	7.00 d.	.850
Gas men.....	1	48	75.00 m.	.177		1	48	6.50 d.	.849
Gas-saw men.....	1	48	4.00 d.	.535		1	48	6.50 d.	.837
	2	48	4.00 d.	.515		7	48	6.80 d.	.813
	2	48	3.50 d.	.438		1	48	6.25 d.	.781
	3	48	3.20 d.	.400		19	48	6.00 d.	.750
Handy men.....	1	48	6.80 d.	.850		1	48	5.75 d.	.719
	3	48	6.00 d.	.750		4	48	5.50 d.	.688
	1	48	145.00 m.	2.697		5	48	5.40 d.	.675
	2	48	5.50 d.	.688		1	48	5.00 d.	.625
	1	48	5.00 d.	.625	Loaders, head.....	1	48	8.50 d.	1.060
	2	48	4.75 d.	.594		1	48	8.00 d.	1.000
	2	48	4.60 d.	.575	Loaders, second...	2	48	5.50 d.	.688
	3	48	4.50 d.	.563		8	48	5.00 d.	.625
	1	48	4.25 d.	.531		6	48	4.75 d.	.594
	1	48	4.00 d.	.500		1	48	4.50 d.	.563
	1	48	3.75 d.	.469		2	48	4.50 d.	.579
	1	48	3.25 d.	.406		1	48	4.50 d.	.575
Handy men, second.....	4	48	3.80 d.	.475		28	48	4.50 d.	.563
High climbers.....	1	48	3.00 d.	.375		1	48	(1)	.552
	1	48	(1)	.983		10	48	4.40 d.	.550
	1	48	7.50 d.	.938		9	48	4.25 d.	.531
	2	48	6.75 d.	.844		6	48	4.20 d.	.525
	1	48	6.50 d.	.813		27	48	4.00 d.	.500
	1	48	6.40 d.	.800	Loaders, third.....	1	48	3.50 d.	.438
	5	48	6.00 d.	.750		3	48	4.00 d.	.500
Hookers.....	1	48	6.50 d.	.870		16	48	3.80 d.	.475
	5	48	6.60 d.	.825		1	48	3.75 d.	.469
	3	48	6.50 d.	.813		4	48	3.50 d.	.438
	1	48	6.25 d.	.781	Log branders.....	1	48	4.00 d.	.500
	5	48	6.00 d.	.750	Machinists.....	1	48	6.00 d.	.750
	3	48	4.90 d.	.613		1	48	5.50 d.	.688
	8	48	4.65 d.	.581		1	48	5.25 d.	.656
	2	48	(1)	.559		1	48	5.00 d.	.625
	1	48	(1)	.555	Machinists' helpers	1	48	4.50 d.	.563
	2	48	4.40 d.	.550		1	48	4.00 d.	.500
	1	48	(1)	.549		1	48	3.50 d.	.438
	1	48	(1)	.547	Maids.....	1	48	81.50 m.	.336
	6	48	4.25 d.	.531	Master mechanics..	1	48	175.00 m.	2.841
	2	48	(1)	.512		1	48	170.00 m.	.817
	5	48	4.00 d.	.500	Master mechanics' helpers.....	1	48	4.00 d.	.500
	1	48	(1)	.484	Mechanics.....	1	48	4.25 d.	.531
	2	48	3.80 d.	.475	Oil and sand men..	1	48	110.00 m.	.529
Hookers, second....	1	48	4.75 d.	.623					

¹ More than one rate.

² And board

⁴ 7 days.

⁶ And bonus.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

WASHINGTON—Concluded.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Pickups.....	1	48	\$5.75 d.	\$0.719	Scalers.....	1	48	\$3.25 d.	\$0.406
Pumpmen.....	2	48	4.00 d.	.500		1	48	2.75 m.	.361
	1	48	3.75 d.	.469		1	48	2.67 d.	.334
	1	48	3.50 d.	.438	Scalers, head.....	1	48	2.00 m.	.371
	1	48	3.25 d.	.406	Scalers' helpers....	1	48	2.50 d.	.313
	1	48	3.00 d.	.375	Shed builders.....	2	48	6.00 d.	.750
Repair men.....	1	48	.65 h.	.650	Signal men.....	1	48	4.25 d.	.531
	1	48	5.00 d.	.625		5	48	4.00 d.	.500
	2	48	.60 h.	.600		2	48	3.75 d.	.469
	1	48	.563 h.	.563		2	48	3.60 d.	.450
	1	48	4.00 d.	.500		1	48	3.50 d.	.438
	2	48	4.50 d.	.450		3	48	3.25 d.	.435
Riggers.....	2	48	3.50 d.	.438		1	48	3.25 d.	.418
	1	48	7.00 d.	.908		12	48	3.25 d.	.406
	1	48	6.60 d.	.875		8	48	3.20 d.	.400
	1	48	6.60 d.	.825		23	48	3.00 d.	.375
	2	48	6.50 d.	.813		6	48	2.80 d.	.350
	1	48	6.00 d.	.750	Skidders.....	5	48	4.00 d.	.500
	1	48	5.00 d.	.625	Skidders, head.....	1	48	7.00 d.	.875
	10	48	4.50 d.	.563	Snipers.....	3	48	4.50 d.	.563
Riggers, head.....	3	48	4.40 d.	.550		3	48	3.52 d.	.440
	1	48	7.50 d.	1.001	Splicers.....	3	48	3.40 d.	.425
	1	48	8.00 d.	1.000	Stake makers.....	1	48	4.25 d.	.531
	2	48	7.50 d.	.938	Steam-saw men....	1	48	5.00 d.	.625
	3	48	7.00 d.	.875		2	48	4.00 d.	.541
	1	48	6.80 d.	.850		2	48	3.75 d.	.469
	1	48	6.50 d.	.813		1	48	3.50 d.	.438
	1	48	(1)	.794	Steelmen.....	1	48	3.00 d.	.375
	2	48	5.00 d.	.625	Swampers.....	1	48	5.50 d.	.688
Riggers' helpers...	2	48	4.50 d.	.563		1	48	5.00 d.	.625
	2	48	5.00 d.	.625		1	48	(1)	.581
	1	48	4.50 d.	.563		1	48	4.25 d.	.531
Riggers, second....	26	48	4.00 d.	.500		6	48	3.00 d.	.375
	3	48	6.50 d.	.813	Unhookers.....	1	48	4.25 d.	.531
	1	48	6.00 d.	.750	Unloaders.....	1	48	3.75 d.	.469
	2	48	5.50 d.	.736	Waiters, male.....	2	48	2.90 m.	.371
	1	48	5.50 d.	.688	Waitresses.....	1	56	90.00 m.	.371
	1	48	5.25 d.	.656		4	56	81.50 m.	.336
Riggers, third.....	3	48	5.00 d.	.625		1	56	60.00 m.	.268
	1	48	4.50 d.	.563		2	48	55.00 m.	.264
	1	48	3.75 d.	.509		5	48	50.00 m.	.240
	1	48	3.75 d.	.501		4	48	55.00 m.	.227
	4	48	3.75 d.	.480		9	56	50.00 m.	.206
Rig slingers.....	2	48	5.75 d.	.719	Watchmen.....	1	48	4.00 d.	.500
	2	48	5.50 d.	.688		1	48	3.75 d.	.469
	1	48	5.00 d.	.644		2	48	3.00 d.	.375
	11	48	5.00 d.	.625		1	48	3.00 d.	.375
	4	48	4.90 d.	.613		2	48	4.15 d.	.346
	1	48	(1)	.608		1	48	4.00 d.	.333
	1	48	4.80 d.	.600		1	48	3.50 d.	.292
	3	48	4.75 d.	.594		1	48	2.70 m.	.288
	1	48	(1)	.586		1	48	3.40 d.	.283
	7	48	4.60 d.	.575		1	48	3.25 d.	.271
	7	48	4.50 d.	.563		1	48	2.50 m.	.206
	2	48	3.75 d.	.469	Water pipe men...	1	48	4.00 d.	.500
	8	48	3.52 d.	.440	Wood bucks.....	11	48	4.00 d.	.500
Rig slingers, second	1	48	5.25 d.	.656		14	48	3.75 d.	.496
Rig-up men.....	1	48	6.00 d.	.750		1	48	(1)	.456
	1	48	4.50 d.	.563		1	48	3.50 d.	.454
	22	48	4.00 d.	.500		2	48	(1)	.453
	3	48	3.75 d.	.469		1	48	(1)	.441
	1	48	3.50 d.	.438		16	48	3.50 d.	.438
Roustabouts.....	1	48	3.00 d.	.375		19	48	3.25 d.	.404
Scalers.....	1	48	3.00 d.	.375		31	48	3.00 d.	.375
	1	48	175.00 m.	.841		2	48	2.80 d.	.350
	1	48	6.50 d.	.813	Wood passers.....	1	48	3.00 d.	.375
	1	48	6.00 d.	.750		8	48	2.80 d.	.350
	1	48	5.50 d.	.688	Wood splitters.....	1	48	3.75 d.	.469
	5	48	5.25 d.	.656		1	48	(1)	.456
	4	48	125.00 m.	.601		1	48	(1)	.453
	1	48	100.00 m.	.481		1	48	3.50 d.	.451
	1	48	3.50 d.	.438		1	48	3.00 d.	.375
	2	48	100.00 m.	.412					

¹ More than one rate.

² And board.

³ 7 days.

⁶ And bonus.

54 WAGES AND HOURS OF LABOR IN LUMBER MANUFACTURING.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Continued.

WEST VIRGINIA.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Blacksmiths.....	1	60	\$0.62 h.	\$0.620	Knot bumpers.....	3	60	\$2.75 d.	\$30.275
	1	60	.60 h.	.600		6	60	2.24 h.	2.240
	2	60	2.56 h.	2.560		6	60	2.10 d.	2.100
	1	60	5.50 d.	5.500		10	60	2.00 d.	2.200
	4	60	5.00 d.	5.000	Landing men.....	1	60	3.50 d.	3.500
	1	60	4.50 d.	4.500		1	60	2.95 d.	2.950
	2	60	4.25 d.	4.250		2	60	2.90 d.	2.900
	1	60	4.25 d.	4.250		1	60	2.75 d.	2.750
	1	60	4.00 d.	4.000		4	60	2.50 d.	2.250
	4	60	3.00 d.	3.300		1	60	2.25 h.	2.250
Carpenters' helpers	1	60	3.75 d.	3.750		1	60	2.25 h.	2.250
Choppers.....	1	60	2.10 d.	2.100		3	60	2.00 d.	2.200
Cooks, male.....	1	70	112.00 m.	2.369	Loader men.....	1	60	2.00 d.	2.000
	1	70	110.00 m.	2.363		4	60	624 h.	624
	4	70	100.00 m.	2.329		2	60	.60 h.	600
	3	60	3.00 d.	3.300		1	60	5.65 d.	5.650
	1	70	2.90 d.	2.260		3	60	5.50 d.	5.500
	1	70	80.00 m.	2.264		1	60	.55 h.	550
	1	70	70.00 m.	2.231		1	60	5.25 d.	5.250
Cooks, female.....	1	70	90.00 m.	2.297		3	60	5.00 d.	5.000
	1	70	70.00 m.	2.231		2	60	4.75 d.	4.750
	1	70	40.00 m.	2.132		2	72	5.00 d.	4.17
Cooksees, male.....	1	70	75.00 m.	2.247	Lobby hogs.....	1	470	2.50 d.	2.250
	1	70	.24 h.	.240		1	470	75.00 m.	2.247
	1	70	.20 h.	.200		1	470	2.25 h.	2.225
	2	70	1.80 d.	2.180		1	470	1.80 d.	2.180
	1	60	1.75 d.	2.175		1	60	1.75 d.	2.175
	6	70	1.65 d.	2.165	Piling and loading				
Cooksees, female....	1	70	1.65 d.	2.165	bark.....	11	60	.40 h.	.400
Cooks, second, male	2	70	2.00 d.	2.200	Road builders.....	14	60	.40 h.	.400
	1	70	45.00 m.	2.148		1	60	3.50 d.	3.500
Cooks, second, fe-						5	60	.30 h.	300
male.....	1	70	.75 d.	.675		1	60	2.75 d.	2.750
Cutters, timber....	1	60	1.35 h.	1.350		2	60	2.50 d.	2.250
	1	60	.35 h.	.325		1	60	2.24 h.	2.240
	1	60	.35 h.	.350		1	60	2.35 d.	2.235
Files.....	1	60	.45 h.	.450		4	60	2.10 d.	2.210
	1	60	3.50 d.	3.500		5	60	2.00 d.	2.200
	1	60	3.00 d.	3.300		1	60	2.00 d.	2.200
	1	60	2.75 d.	2.275	Road repairers.....	10	60	1.65 d.	1.165
	1	60	2.55 d.	2.255		1	60	.30 h.	.300
	1	60	2.50 d.	2.250	Sawyers.....	1	60	3.10 d.	3.100
Firemen.....	1	70	2.25 h.	2.250		1	60	2.75 d.	2.275
General helpers....	2	60	2.75 d.	2.275		4	60	2.24 d.	2.240
	1	60	2.24 h.	2.240		3	60	2.25 d.	2.225
	3	60	2.00 d.	2.200		19	60	2.10 d.	2.210
Grab drivers.....	2	60	.40 h.	.400		10	60	2.00 d.	2.200
	2	60	3.50 d.	3.500		2	60	2.00 d.	2.200
	3	60	2.90 d.	2.290		5	60	1.80 d.	2.180
	2	60	2.75 d.	2.275	Sawyers and cut-	2	60	1.65 d.	2.165
	1	60	2.75 d.	2.275	ters.....	10	60	.40 h.	.400
	5	60	2.50 d.	2.250		1	60	3.00 d.	3.300
	1	60	2.24 h.	2.240		1	60	2.75 d.	2.275
	1	60	2.25 h.	2.225		1	60	2.75 d.	2.275
	4	60	2.00 d.	2.200		3	60	2.50 d.	2.250
	5	60	2.20 h.	2.200		2	60	2.50 d.	2.250
	2	60	2.00 d.	2.200		5	60	2.00 d.	2.200
	7	60	1.80 d.	2.180	Scalers.....	1	60	125.00 m.	.481
Hookers.....	7	60	.47 h.	.470		1	60	1.40 h.	2.400
	1	60	4.50 d.	4.500		1	60	4.00 d.	4.400
	1	60	4.00 d.	4.400		1	60	90.00 m.	2.346
	5	60	3.60 d.	3.360		1	60	1.29 h.	2.290
	3	60	3.50 d.	3.350		1	60	2.75 d.	2.275
Hookers' helpers...	1	60	3.70 d.	3.370		1	60	2.35 d.	2.235
	2	60	3.50 d.	3.350		1	60	2.25 d.	2.225

² And board.

⁴ 7 days.

TABLE D.—NUMBER OF EMPLOYEES, FULL-TIME HOURS PER WEEK, AND RATES OF WAGES IN THE LOGGING INDUSTRY, BY OCCUPATIONS, 1921—Concluded.

WEST VIRGINIA—Concluded.

Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.	Occupation.	Number of employees.	Full-time hours per week.	Wage rate.	Equivalent rate per hour.
Scalers.....	1	60	\$2.00 d.	\$0.200	Swampers.....	24	60	\$1.75 d.	\$0.175
Skidders.....	1	60	3.10 d.	.310		6	60	1.65 d.	.165
	1	60	2.75 d.	.275	Swampers, buck...	2	60	2.33 h.	.330
	4	60	1.65 d.	.165		1	60	2.75 d.	.275
Skidders' helpers..	1	60	3.50 d.	.350		1	60	2.50 d.	.250
	1	60	3.25 d.	.325		1	60	2.35 d.	.235
	3	60	3.00 d.	.300	Teamsters.....	7	60	.40 h.	.400
	4	60	2.75 d.	.275		1	60	96.00 m.	.369
Skidway men.....	1	60	2.25 d.	.225		1	60	3.60 d.	.360
	2	60	.40 h.	.400		1	60	90.00 m.	.346
	1	60	2.50 d.	.250		3	60	3.40 d.	.340
	7	60	2.24 h.	.240		5	60	75.00 m.	.288
	1	60	2.10 d.	.210		6	60	70.00 m.	.269
Steam skidders	4	60	1.65 d.	.165		1	60	2.65 d.	.265
	1	60	2.60 h.	.600		14	60	2.50 d.	.250
	1	60	150.00 m.	.577		14	60	2.24 h.	.240
	1	60	5.00 d.	.500		16	60	2.225 h.	.2225
Steam skidders' helpers.....	3	60	.325 h.	.325		15	60	2.00 d.	.200
	1	60	2.25 h.	.250		3	60	2.00 d.	.200
	3	60	2.225 h.	.2225		9	470	1.95 d.	.195
Swampers.....	9	60	.40 h.	.400	Tong hookers.....	1	60	1.95 d.	.195
	14	60	3.50 d.	.350		2	60	.50 h.	.500
	14	60	2.90 d.	.290		2	60	.475 h.	.475
	4	60	2.75 d.	.275		3	60	4.25 d.	.425
	7	60	2.50 d.	.250		2	60	4.10 d.	.410
	2	60	.25 h.	.250		5	60	4.00 d.	.400
	8	60	2.24 h.	.240		1	60	3.75 d.	.375
	3	60	2.25 d.	.225		1	60	3.50 d.	.350
	28	60	2.00 d.	.200	Utility men.....	3	72	3.50 d.	.292
	11	60	2.20 h.	.200	Watchmen.....	1	60	2.10 d.	.210
	3	60	1.85 d.	.185		1	84	3.00 d.	.250

² And board.

⁴ 7 days.

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