

be entitled to participate in the said meeting and vote therein. Copies of General Orders No. 1, 2, and 3, and of Forms 1, 4, and 5, of said Commission may be procured from the undersigned Deputy at the address below stated.

All qualified producers voting by proxy must comply with said General Order No. 3.

Dated this — day of October, 193—.

.....
 Acting Deputy District Secretary of the
 National Bituminous Coal Commission.
 Address:

Instructions to Acting Deputy District Secretaries

(Not to be Included in Notice Published in the Newspaper)

A copy of the above notice and of General Orders No. 1, 2, and 3, and the following Forms of the Commission: in duplicate, Form 4, and in triplicate, Forms 1 and 5, shall be mailed to all known producers in the district in accordance with the provisions of said General Order No. 3.

[fol. 880]

Form 3

United States Department of the Interior

National Bituminous Coal Commission

Affidavit of Service of Notice of Organization Meeting of
 District Board

State of —,

County of —, ss:

— —, being duly sworn under oath, deposes and says that he is the acting deputy district secretary of the National Bituminous Coal Commission for District No. —, as defined by Act of Congress, entitled “Bituminous Coal Conservation Act of 1935”; that he served a copy of the notice hereto attached upon all known bituminous coal producers in said district by depositing a copy of said notice in the United States mail, addressed to each of said producers.

The date or dates upon which said respective notices were mailed, and the names and addresses of said respec-

tive producers are set forth on pages — to —, inclusive, marked “Exhibit A”, hereto attached, and by reference made a part hereof.

— — (Seal.)

Sworn and subscribed before me this — day of —, 193-.

— —
(Title of officer administering oath.)

Exhibit A

Date Notice Mailed	Name of Producer	Address to Which Mailed
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

[fol. 881]

Form 4

United States Department of the Interior

National Bituminous Coal Commission, Washington, D. C.

Proxy for Organization Meeting of District Boards

State of,
County of, ss:

The undersigned, a coal producer in District No., as defined by the Bituminous Coal Conservation Act of 1935, having become a qualified producer on the day of, 1935, in conformity with General Order No. 3 of the National Bituminous Coal Commission, does hereby make, constitute, and appoint his, her, or its true and lawful proxy and attorney, to attend the organization meeting of the bituminous coal producers of the said district, to be held at o'clock, .. M., on the day of, 1935, and any adjournment or adjournments of the said meeting, and there to cast any and all votes the undersigned could or would cast, if personally present, in creating the district board and voting upon any and all matters necessary thereto and properly coming before the said meeting; hereby ratifying and confirming any

and all lawful acts of the said proxy and attorney done in conformity herewith.

In witness whereof the undersigned has caused these presents to be duly executed this day of, 193...

..... (Seal.)

(NOTE.—The above proxy must be signed and acknowledged before an officer qualified to administer an oath. When in behalf of a partnership it must be signed and acknowledged by a partner thereof, and when in behalf of a corporation, by the president, vice president, or secretary thereof. A form of acknowledgment conformable to the laws of the state in which the proxy is executed shall be thereto attached.)

Attention is called to the fact that, if the producer desires to vote by proxy at the organization meeting of the District Board, an executed and acknowledged original of this form must be filed with (actually in the possession of) the acting deputy district secretary at least 48 hours prior to the date and hour fixed for the District Board meeting, pursuant to Paragraph 11 of General Order No. 3.

[fol. 882]

Form 5

United States Department of the Interior

National Bituminous Coal Commission, Washington, D. C.

Affidavit of Tonnage

State of,

County of ss:

....., being duly sworn on oath, deposes and says that ..he makes this Affidavit of Tonnage pursuant to General Order No. 3 of the National Bituminous Coal Commission, dated the 9th day of October, 1935, and that ..he is of

(Individual proprietor, copartner,
president, etc.)

(Name of producer.)

..... a ;

(Whether an individual, copartnership, or
corporation.)

that said producer is now operating one or more bituminous coal mines located in District No., as designated

in Act of Congress, entitled “Bituminous Coal Conservation Act of 1935”; that during the calendar year 1934 said producer actually produced bituminous coal from a mine or mines, owned, leased, or operated by, within
(him, her, it)

said District, the names of which mine or mines, the respective locations thereof, and the actual number of tons of bituminous coal produced therefrom during said calendar year, being as follows, to wit:

Name of Mine	Location of Mine	1934 Tonnage of Mine
.....
.....

Affiant hereby certifies that he has mailed to the Commission, at Washington, D. C., in behalf of said producer, an acceptance of the Bituminous Coal Code, duly executed, on Form 1, pursuant to the requirements of General Order No. 3 of the Commission, and that the representations and facts aforesaid are true and correct upon personal
(his, her)

knowledge thereof.

.....(Seal.)

Sworn and subscribed before me this day of
193 . . .

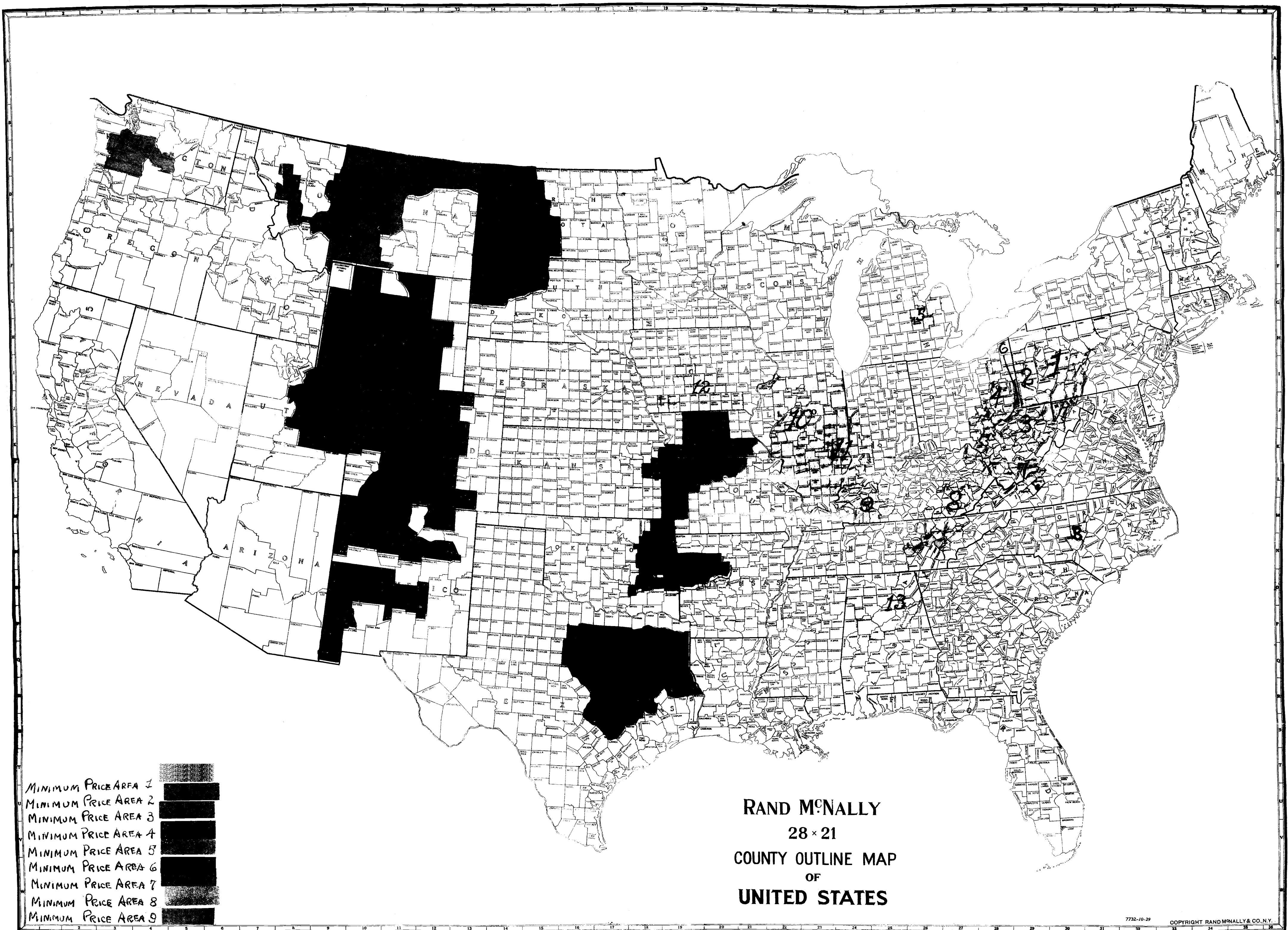
.....
(Title of officer administering oath.)

(NOTE.—The above affidavit, when made in behalf of a partnership, must be made by one of the partners thereof; when in behalf of a corporation it must be made by either the president, vice president, or secretary thereof. This affidavit must be filed, in duplicate, with the acting deputy district secretary not later than 48 hours prior to the date and hour of the organization meeting provided in General Order No. 3 of said Commission. The acting deputy district secretary shall transmit one of such duplicate originals to the Commission at Washington, D. C. and the other to the secretary of the district board, when elected.)

Attention is called to the fact that, pursuant to Paragraph 12 of General Order No. 3, two executed and acknowledged duplicate originals of the above form must be filed with (actually in the possession of) the acting deputy district secretary at least 48 hours prior to the date and hour fixed for the District Board meeting.

(Here follows 1 map, folio 883, 1 photo, folio 884, 1 map
folio 885)

Defendant's Exhibit No. 18



Plaintiff's Exhibit No. 19

#1325

- 3 -

No. W.C.R. 953

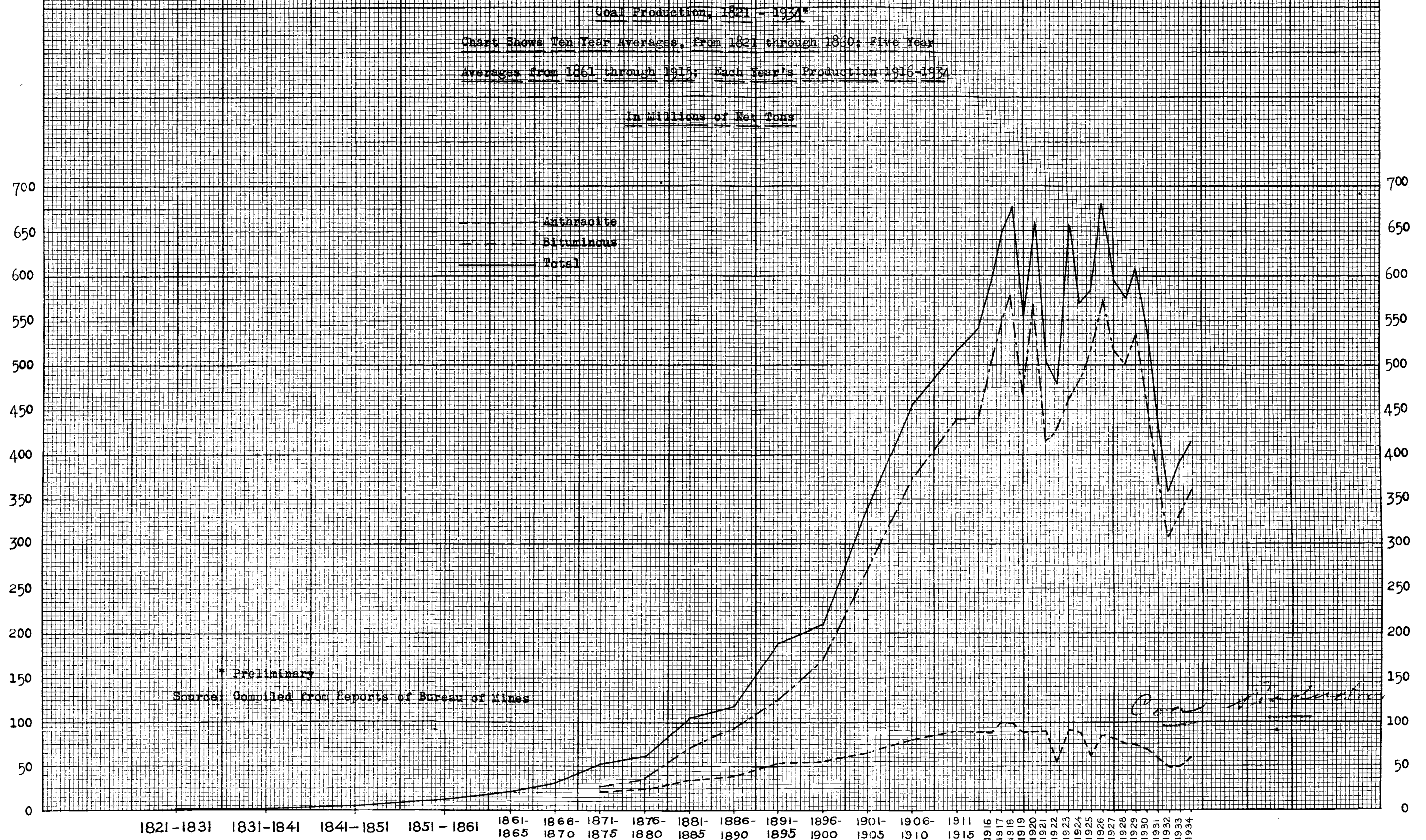
PRODUCTION OF BITUMINOUS COAL, BY DISTRICTS, AS DEFINED IN THE BITUMINOUS COAL CONSERVATION ACT OF 1935, 1925 TO 1934 (IN THOUSANDS OF NET TONS)

(This table was compiled for the convenience of the National Bituminous Coal Commission and is published, as a service to the industry, with the authorization of the Commission, which is not, however, responsible for its accuracy. The production records courteously supplied by mine operators to the U. S. Bureau of Mines have been grouped to correspond as closely as possible with the district boundaries specified in the Bituminous Coal Conservation Act of 1935. The allocation of mines to some of the districts may be revised slightly as a result of interpretation by the Commission. The production for North Carolina has been included in District 8 instead of in District 7 in order to follow the provisions of the Act. For a description of the boundaries see Annex to Act - Schedule of Districts.

All figures for 1934 are preliminary and subject to revision upon receipt of final reports from all operators, which will be available November 1. The preliminary figures are largely based on reports from the old divisional code authorities, as in the case of Alabama and Southeastern Tennessee. See Weekly Coal Report No. 919, pages 3 and 4.)

Minimum Price Area and Producing District	1925		1926		1927		1928		1929		1930		1931		1932		1933		1934 preliminary	
	Thousands of net tons	Percent of total	Thousands of net tons	Percent of total	Thousands of net tons	Percent of total	Thousands of net tons	Percent of total	Thousands of net tons	Percent of total	Thousands of net tons	Percent of total	Thousands of net tons	Percent of total	Thousands of net tons	Percent of total	Thousands of net tons	Percent of total	Thousands of net tons	Percent of total
PRICE AREA 1																				
District 1. Eastern Pennsylvania	55,995	10.77	61,344	10.70	54,454	10.52	51,082	10.20	53,992	10.09	48,960	10.38	42,242	11.06	33,573	10.84	35,487	10.64	37,794	10.55
District 2. Western Pennsylvania	85,087	16.36	96,319	16.80	82,856	16.00	84,071	16.79	93,597	17.90	79,410	16.99	58,370	15.27	43,375	14.01	46,067	13.81	53,891	15.04
District 3. Northern West Virginia	26,668	5.13	34,522	6.02	35,723	6.90	30,898	6.17	30,210	5.65	25,752	5.51	20,819	5.45	16,773	5.42	18,989	5.69	19,114	5.33
District 4. Ohio	28,034	5.39	27,872	4.86	15,800	3.05	15,641	3.13	23,689	4.43	22,952	4.83	20,411	5.34	13,910	4.49	19,589	5.87	20,842	5.81
District 5. Michigan	808	.16	687	.12	757	.15	617	.12	805	.15	661	.14	359	.10	446	.14	407	.12	631	.18
District 6. Panhandle of West Virginia	5,892	1.13	6,305	1.10	7,137	1.38	7,212	1.44	6,335	1.18	5,114	1.09	4,054	1.06	3,645	1.18	4,096	1.23	3,982	1.11
District 7. Southern Numbered 1	47,936	9.22	54,761	9.55	52,419	10.12	52,087	10.40	57,985	10.84	51,375	10.94	43,723	11.44	36,936	11.94	41,820	12.53	44,138	12.32
District 8. Southern Numbered 2	100,419	19.31	112,528	19.62	113,812	21.98	103,429	20.66	105,597	19.73	93,245	19.94	76,799	20.09	63,620	20.54	67,964	20.37	72,529	20.23
District 9. West Kentucky	12,187	2.34	15,464	2.70	21,205	4.10	16,277	3.25	14,437	2.70	10,915	2.34	8,579	2.45	9,540	3.08	7,834	2.35	7,893	2.20
District 10. Illinois	66,909	12.86	69,367	12.10	46,848	9.05	55,948	11.17	60,658	11.34	53,731	11.49	44,303	11.59	33,474	10.81	37,813	11.21	40,905	11.41
District 11. Indiana	21,225	4.08	23,186	4.04	17,596	3.46	16,378	3.27	18,344	3.43	16,490	3.53	14,295	3.74	13,384	4.30	13,761	4.13	14,820	4.14
District 12. Iowa	4,715	.91	4,625	.81	2,356	.47	3,684	.74	4,281	.79	3,893	.83	3,389	.89	3,862	1.23	3,125	.96	3,345	.93
Total, Price Area 1	455,875	87.66	506,980	88.42	451,877	87.28	437,324	87.34	469,850	87.83	411,698	88.05	337,303	88.28	272,540	88.00	296,622	88.51	319,844	89.25
PRICE AREA 2																				
District 13. Southeastern 1/	21,278	4.09	22,352	3.90	21,035	4.06	18,899	3.77	19,229	3.59	16,688	3.57	12,998	3.40	8,705	2.81	9,770	2.93	10,599	2.96
PRICE AREA 3																				
District 14. Arkansas-Oklahoma	1,600	.31	1,973	.34	2,156	.42	2,379	.47	2,529	.47	2,132	.46	1,673	.44	1,445	.47	1,313	.39	1,388	.39
PRICE AREA 4																				
District 15. Southwestern	10,173	1.95	10,845	1.89	11,045	2.13	10,508	2.10	11,047	2.07	9,312	1.99	7,712	2.01	7,503	2.42	7,280	2.18	7,392	2.06
PRICE AREA 5																				
District 16. Northern Colorado	2,707	.52	2,949	.51	2,441	.47	2,896	.58	3,194	.60	2,439	.61	2,727	.71	2,546	.82	2,408	.72	2,296	.64
District 17. Southern Colorado	9,111	1.75	9,437	1.65	9,133	1.77	8,615	1.72	8,179	1.53	6,350	1.36	4,645	1.22	3,677	1.18	3,443	1.03	3,554	.99
District 18. New Mexico	1,049	.20	1,069	.19	1,085	.21	1,049	.21	1,171	.22	977	.21	785	.21	637	.21	605	.18	568	.16
Total, Price Area 5	12,867	2.47	13,455	2.35	12,659	2.45	12,560	2.51	12,544	2.35	10,166	2.18	8,157	2.14	6,862	2.21	6,456	1.93	6,418	1.73
PRICE AREA 6																				
District 19. Wyoming	6,522	1.26	6,512	1.14	6,754	1.30	6,572	1.31	6,705	1.25	6,088	1.30	4,994	1.30	4,171	1.35	4,013	1.20	4,348	1.21
District 20. Utah	4,690	.90	4,374	.76	4,782	.93	4,843	.97	5,161	.96	4,257	.91	3,350	.88	2,852	.82	2,675	.80	2,414	.67
Total, Price Area 6	11,213	2.16	10,886	1.90	11,536	2.23	11,415	2.28	11,866	2.21	10,345	2.21	8,344	2.18	7,023	2.27	6,688	2.00	6,762	1.88
PRICE AREA 7																				
District 21. North Dakota and South Dakota ..	1,339	.26	1,385	.24	1,540	.29	1,664	.33	1,875	.35	1,713	.36	1,547	.41	1,789	.58	1,841	.55	1,830	.51
PRICE AREA 8																				
District 22. Montana	3,044	.59	2,798	.49	3,144	.60	3,324	.66	3,407	.64	3,022	.65	2,378	.62	2,125	.69	2,152	.65	2,600	.73
PRICE AREA 9																				
District 23. Washington	2,538	.49	2,587	.45	2,635	.51	2,519	.50	2,521	.47	2,302	.49	1,846	.48	1,592	.51	1,394	.42	1,387	.39
GRAND TOTAL - AREAS LISTED IN ACT	519,957	99.96	573,261	99.98	517,627	99.97	500,592	99.96	534,868	99.98	467,378	99.96	381,958	99.96	309,564	99.96	333,516	99.96	358,265	99.96
States not districted	13	—	19	—	32	.01	27	.01	20	—	28	.01	25	.01	23	.01	19	.01	18	.01
Alaska	85	.02	87	.02	104	.02	126	.03	101	.02	120	.03	106	.03	103	.03	96	.03	112	.03
UNITED STATES	520,053	100.00	573,367	100.00	517,763	100.00	500,745	100.00	534,989	100.00	467,526	100.00	382,089	100.00	309,710	100.00	333,631	100.00	358,395	100.00

1/ According to the Act, the Minimum Price Area 1 includes that part of Southeastern, district 13, comprising Van Buren, Warren, and McMillan counties in Tennessee. Production, if any, for these counties has been tabulated in Price Area 2. Warren and McMillan counties have not produced coal for many years, and the annual production in Van Buren in recent years has been less than 10,000 tons.



[fol. 886]

PLAINTIFF'S EXHIBIT 21

Coal Production 1821—1934*

Note.—Figures for anthracite relate to Pennsylvania output only. Bituminous coal includes brown coal and small amounts of anthracite outside of Pennsylvania.

Year or Yearly Average	In Thousands of Net Tons		
	Total	Anthracite	Bituminous
1821-1830	140	66	75
1831-1840	1,032	722	310
1841-1850	4,535	2,697	1,837
1851-1860	12,513	7,645	4,868
1861-1865	20,538	11,142	9,396
1866-1870	31,706	16,281	15,425
1871-1875	52,179	23,407	28,773
1876-1880	62,261	25,800	36,461
1881-1885	107,291	36,198	71,093
1886-1890	138,398	43,952	94,446
1891-1895	178,822	53,405	125,416
1896-1900	227,123	55,625	171,498
1901-1905	339,357	66,854	272,503
1906-1910	454,555	81,142	373,413
1911-1915	529,189	89,233	439,955
1916	590,098	87,578	502,520
1917	651,402	99,612	551,791
1918	678,212	98,826	579,386
1919	553,952	88,092	465,860
1920	658,265	89,598	568,667
1921	506,395	90,473	415,922
1922	476,951	54,683	422,268
1923	657,904	93,339	564,565
1924	571,613	87,927	483,687
1925	581,870	61,817	520,053
1926	657,804	84,437	573,367
1927	597,859	80,096	517,763
1928	576,093	75,348	500,745
1929	608,817	73,828	534,989
1930	536,911	69,385	467,526
1931	441,735	59,646	382,089
1932	359,565	49,855	309,710
1933	383,172	49,541	333,631
1934*	415,780	57,385	358,395

* Preliminary, as of February 23, 1935 report of Bureau of Mines.

Source: Bureau of Mines.

Source: Page 680 of Statistical Abstract, 1934, except final 1933 and preliminary 1934.

(Here follows plaintiff's Exhibits 22 and 23, folios 887 and
888.)

ELECTRICITY PRODUCED, CONSUMPTION OF FUEL, AND CAPACITY OF GENERATORS IN PUBLIC-UTILITY POWER PLANTS

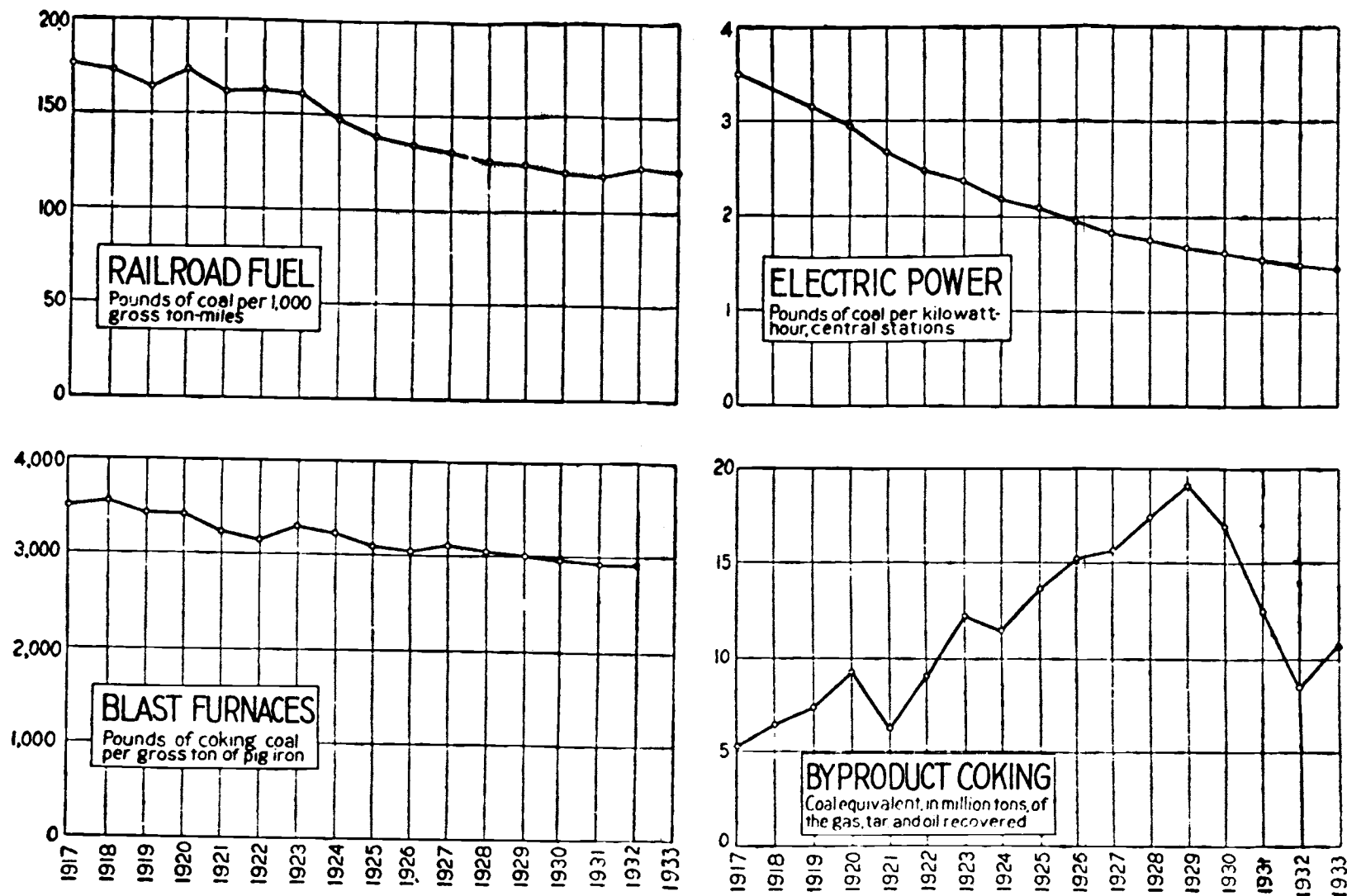
NOTE.—Data prior to 1919 are totals for central stations and electric railways as reported by Bureau of the Census; thereafter, they are estimated totals for all plants, based on returns from about 3,500 plants in 1919 to about 3,800 in 1933, each producing 10,000 kilowatt-hours or more per month, engaged in public service, including central stations, electric railways, steam railroads generating electricity for traction, and certain other plants. The capacity of plants reporting is about 95 percent of that of all plants

Calendar year	Production of electricity			Consumption of fuel			Consumption— Coal or coal equivalent	
	Total	Water power	Fuel power	Coal	Fuel oil	Gas	Total	Per kilowatt-hour
	Million kilowatt-hours	Million kilowatt-hours	Million kilowatt-hours	Thousand tons ¹	Thousand barrels ²	Million cubic feet	Thousand tons ¹	Pounds
1902.....	4,798							
1912.....	17,572							
1917.....	32,679							
1919.....	38,921	14,606	24,315	35,100	11,050	21,406	38,880	3.2
1920.....	43,555	16,150	27,405	37,124	13,123	24,702	41,420	3.0
1921.....	40,975	14,970	26,005	31,585	12,045	23,722	35,240	2.7
1922.....	47,654	17,207	30,447	34,179	13,197	27,172	38,000	2.5
1923.....	55,665	19,343	36,322	38,966	14,684	31,433	43,522	2.4
1924.....	59,014	19,969	39,044	37,556	16,630	48,443	43,130	2.2
1925.....	65,870	22,356	43,514	40,222	10,246	46,521	44,780	2.1
1926.....	73,791	26,189	47,602	41,311	9,399	53,207	45,856	1.95
1927.....	80,205	29,875	50,330	41,888	6,782	62,919	45,910	1.84
1928.....	87,850	34,696	53,154	41,350	7,153	77,326	46,387	1.76
1929.....	97,352	34,629	62,723	44,937	10,124	112,707	52,574	1.69
1930.....	95,936	33,021	62,915	42,898	9,260	120,240	50,654	1.62
1931.....	91,729	30,603	61,126	38,734	8,123	139,328	47,134	1.55
1932.....	83,153	34,098	49,055	30,290	7,967	107,875	36,600	1.50
1933.....	85,402	34,727	50,674	30,575	9,940	102,601	37,163	1.47

¹ Of 2,000 pounds.

² Of 42 gallons.

SOURCE: 1902 to 1917, Bureau of the Census; thereafter, Geological Survey, Department of the Interior.



Trends in fuel efficiency in the United States, 1917-33.

SOURCE: Bureau of Mines. Above is photostat of charts appearing on page 574 of Minerals Yearbook, 1934.

[fol. 889]

PLAINTIFF'S EXHIBIT 24

Indicators of the Effect of Fuel Economy on Consumption of Coal per Unit of Performance Since the World War

	Pounds	Reduction (percent)
Steam railroads:		
Pounds per 1,000 gross ton-miles freight service:		
Average, 1919-20.....	170	
Average, 1933.....	121	28.8
Pounds per passenger-train car-mile:		
Average, 1919-20.....	18.5	
Average, 1933.....	15.2	17.8
Electric public-utility power plants:		
Pounds per kilowatt-hour, 1919.....	3.2	
Pounds per kilowatt-hour, 1933.....	1.5	53.1
Iron and steel—pounds coking coal per ton of pig: ¹		
1918.....	3,577	
1933.....	2,876	19.6
Coke manufacture: Savings of heat values through recovery of gas, tar, light oils, and breeze by extension of byproduct in place of beehive coking, 1913-33, expressed as percent of coal used for all coke in 1933 ²		19.2

¹ Includes only savings through higher yields of merchantable coke per ton of coal charged and lower consumption of coke per ton of iron. Excludes economies through recovery of byproducts, which are treated in next item.

² These byproducts are used in part for boiler fuel, in part for metallurgical purposes, in part for domestic heating and cooking, and to a small extent for automotive fuel.

Source: Bureau of Mines.

Source: Page 311 of "Coal", Statistical Appendix to Minerals Yearbook, 1934.

(Here follow 3 photos, folios 890-892.)

Modern Combustion, Coal Economics and Fuel Fallacies

*A popular text-book or manual of the latest
developments in fuels and their combustion.*

By

CLARENCE V. BECK

Author of "What Price Heat?"; "The Piped Fuel Bugaboo";
"Comparative Fuel Values of Coal, Oil and Gas";
"Stokers and Their Possibilities."



Published by

MID-WEST COAL RETAILER

"The Modern Heating and Merchandising Magazine"

20 West Jackson Blvd.

Chicago, Ill.

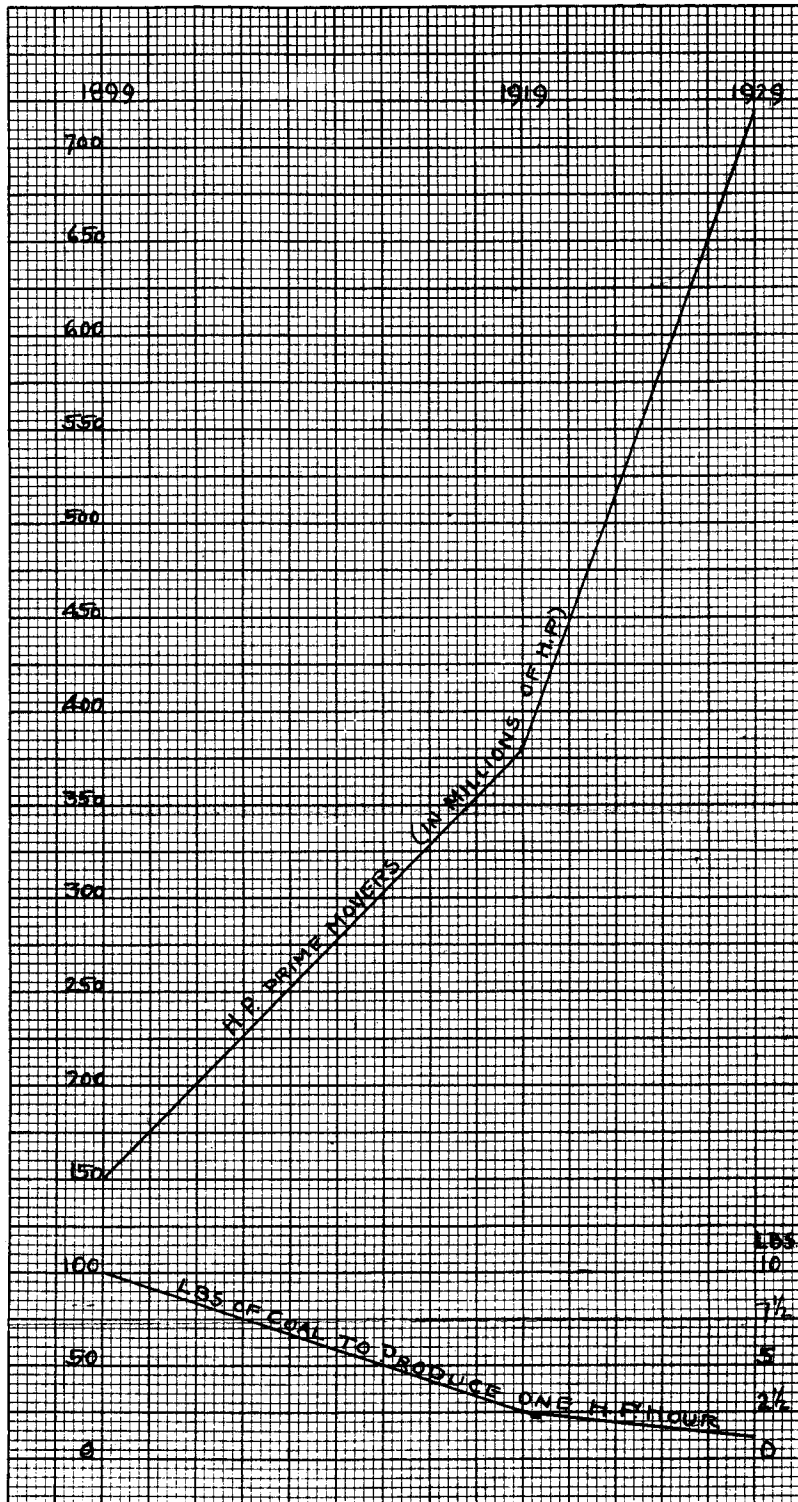
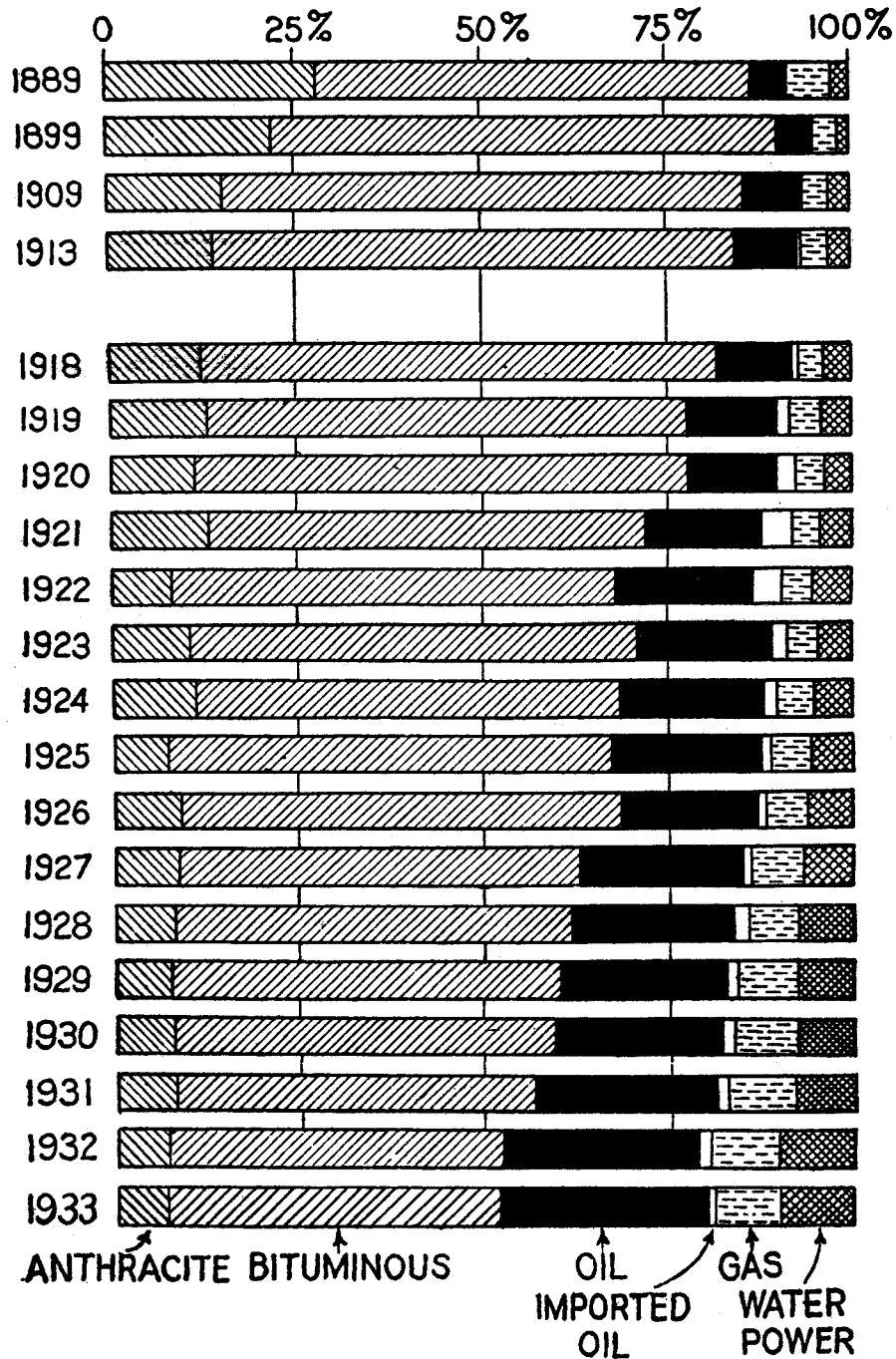


Chart No. 1—Shows Growth in Prime Movers and Decreasing Pounds of Coal Per h.p. Hour

PERCENTAGE OF THE ENERGY SUPPLY OF THE UNITED STATES
DERIVED FROM COAL, OIL, GAS, AND WATER POWER, 1889-1933



SOURCE: Bureau of Mines

Source: Page 285 of "Coal", Statistical Appendix to Minerals Yearbook, 1934.

820C

Relative Rate of Growth of Coal and Other Sources of Power

Annual Supply of Energy from Mineral Fuels and Water Power in the United States, 1909-1933

(Figures represent trillions of British thermal units and because of rounding do not always add across exactly. In calculating thermal equivalents the gross British thermal unit values are used. Water power is represented by British thermal units of coal necessary to produce the same amount of power. Figures represent production except those for oil imports and take no account of changes of stock.)

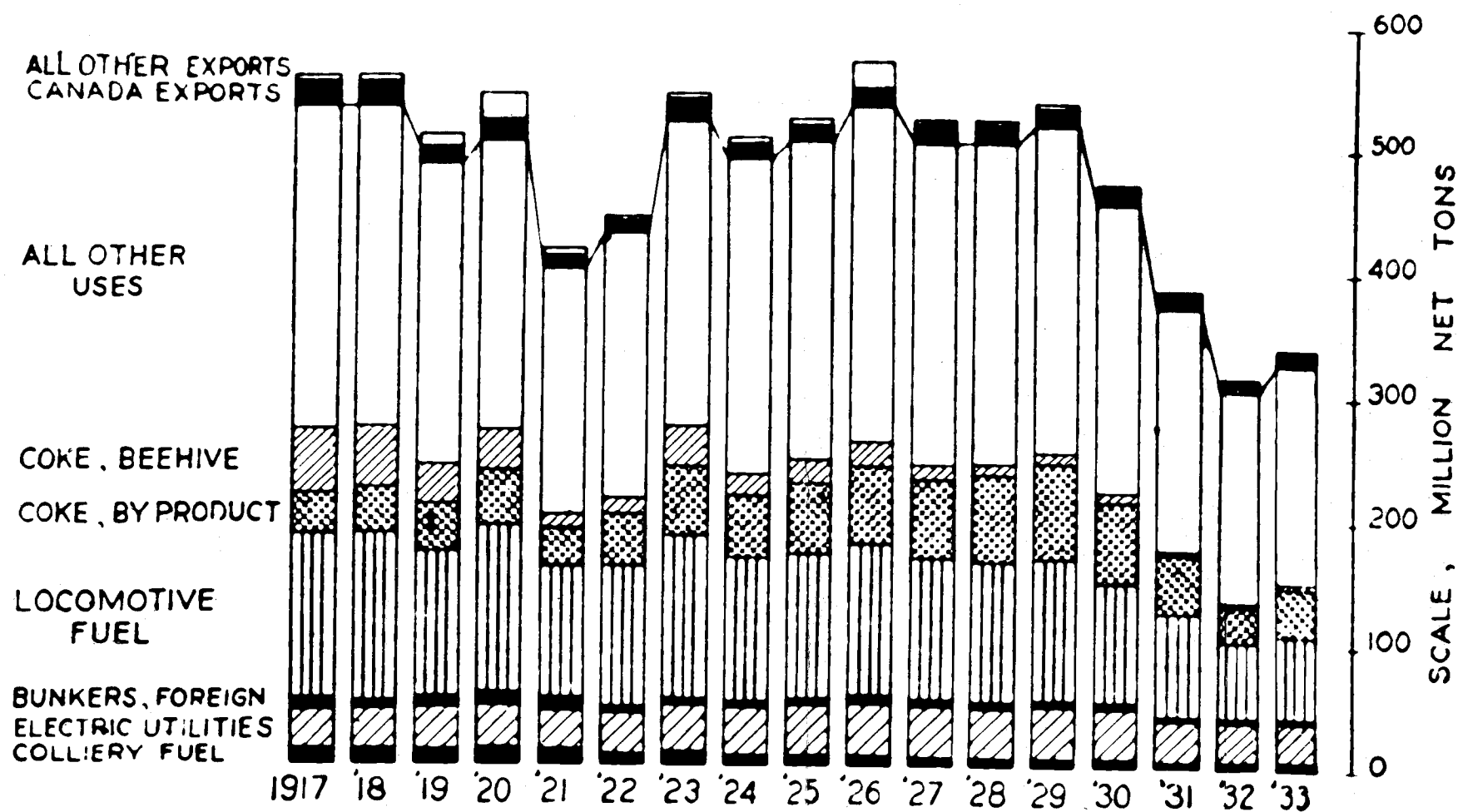
Year	Anthracite	Bituminous coal	Total coal	Domestic oil (total crude, including that refined)	Natural gas (total production)	Imported oil (total crude, including that refined)	Total oil and gas	Total mineral fuels	Water power	Grand total including water power
1909	2,205	9,949	12,155	1,099	517	*	1,616	13,771	411	14,182
1913	2,490	12,535	15,025	1,491	626	102	2,219	17,243	588	17,831
1918	2,688	15,180	17,868	2,136	775	226	3,137	21,005	837	21,842
1919	2,396	12,206	14,602	2,270	802	317	3,389	17,991	892	18,883
1920	2,437	14,899	17,336	2,658	858	637	4,153	21,489	971	22,460
1921	2,461	10,897	13,358	2,833	712	752	4,297	17,655	908	18,563
1922	1,487	11,063	12,551	3,345	820	764	4,929	17,480	1,024	18,504
1923	2,539	14,791	17,330	4,394	1,082	492	5,968	23,298	1,136	24,434
1924	2,392	12,672	15,064	4,284	1,227	467	5,978	21,042	1,167	22,209
1925	1,681	13,625	15,306	4,582	1,278	371	6,231	21,537	1,290	22,827
1926	2,297	15,022	17,319	4,625	1,411	362	6,398	23,717	1,492	25,209
1927	2,179	13,565	15,744	5,407	1,553	350	7,310	23,054	1,687	24,741
1928	2,049	13,120	15,169	5,409	1,686	479	7,574	22,743	1,942	24,685
1929	2,008	14,017	16,025	6,044	2,062	474	8,580	24,605	1,929	26,534
1930	1,887	12,249	14,136	5,388	2,089	373	7,850	21,986	1,856	23,842
1931	1,622	10,011	11,633	5,106	1,813	284	7,203	18,836	1,721	20,557
1932	1,356	8,114	9,470	4,711	1,673	268	6,652	16,122	1,900	18,022
1933	1,348	8,741	10,089	5,434	1,672	191	7,297	17,386	1,931	19,317

* Imports negligible before 1913.

Source: Bureau of Mines.

Source: Page 623, Table 7 of "Coal in 1930" for data up to 1930, page 284. Table 2 of "Coal", Statistical Appendix to Minerals Yearbook, 1934.

(Here follows Plaintiff's Exhibit 28, folio 894.)



Tonnage of bituminous coal absorbed by the principal branches of consumption, 1917-33.

SOURCE: Bureau of Mines

Source: Photostat of figure 27 on page 560 of Minerals Yearbook, 1934.

[fol. 895]

PLAINTIFF'S EXHIBIT 29

Changes in the United States Consumption of Bituminous Coal by Such Classes of Consumers as Report Currently, and by all other consumers
1929-1933, in Thousands of Net Tons

(Information on several other classes of consumers is available for certain years. The items shown in this table are selected because they are available in strictly comparable form for each year.)

Year	Consumed in the United States								Exported		
	Colliery fuel	Electric public utilities ¹	Bunkers foreign trade ²	Locomo- tive fuel class I roads ³	Coke beehive ovens ⁴	Coke by-product ovens ⁴	All other uses ⁵	Total consump- tion ⁶	To Canada and Mexico ²	To All other countries ²	Total of consump- tion and exports ⁷
1929.....	4,663	44,937	4,287	113,894	10,028	76,759	264,987	519,555	14,727	2,702	536,984
1930.....	3,993	42,898	3,497	98,400	4,284	65,521	236,397	454,990	13,667	2,210	470,867
1931.....	3,205	38,735	2,195	81,725	1,767	46,846	197,396	371,869	10,647	1,479	383,995
1932.....	2,781	30,290	1,350	66,498	1,030	30,887	174,081	306,917	8,429	385	315,731
1933.....	2,858	30,575	1,316	66,198	1,408	38,681	180,712	321,748	8,600	437	330,785

¹ U. S. Geological Survey. Includes a small amount of anthracite.

² Bureau of Foreign and Domestic Commerce.

³ Interstate Commerce Commission. Note that consumption in shops, roundhouses, and stations is excluded, also the entire consumption of class II and III roads.

⁴ U. S. Bureau of Mines.

⁵ Obtained by subtracting the known items from the total consumption. Includes general manufacturing, domestic, and many miscellaneous uses. From other sources it is known that consumption in steel works and general manufacturing is decreasing and that consumption for domestic uses is increasing.

⁶ Production plus imports minus exports, plus or minus changes in consumers' stocks.

⁷ Note that consumption includes the small amount imported.

Source: Bureau of Mines. (Statistical Appendix to Minerals Yearbook, 1934).
Source: Table 25, page 311, of chapter on "Coal" in Statistical Appendix
to Minerals Yearbook, 1934.

(Here follows 1 poster, folio 896 and 1 map, folio 897.)

ANNUAL SUPPLY OF ENERGY FROM MINERAL FUELS AND WATER POWER IN THE UNITED STATES

Plaintiff's Ex. 30

NOTE.--The figures, except coal equivalent, represent the equivalent of the heating power of the classes of fuel in trillions of British thermal units. Data represent production, except those for oil imports, and take no account of exports, imports, or changes in stocks

Annual average or year	Anthracite	Bituminous	Total coal	Domestic oil	Natural gas	Imported oil	Water power ¹	Grand total fuels and water power	Equivalent in bituminous coal ²	
									Million tons of 2,000 lbs.	Per capita, tons
1871-1875	637	754	1,391	49	-	-	(1)	1,520	58	1.4
1876-1880	718	955	1,673	101	-	-	(1)	1,857	71	1.5
1881-1885	985	1,863	2,848	153	3 24	-	(1)	3,110	119	2.2
1886-1890	1,195	2,474	3,669	198	3 264	-	(1)	4,221	161	2.7
1891-1895	1,453	3,286	4,739	307	3 166	-	104	5,316	203	3.0
1896-1900	1,513	4,493	6,006	357	3 198	-	129	6,690	255	3.5
1901-1905	1,818	7,140	8,958	612	323	-	209	10,102	386	4.8
1906-1910	2,207	9,783	11,990	1,037	470	1	369	13,867	529	5.9
1911-1915	2,427	11,527	13,954	1,486	619	72	591	16,722	638	6.6
1916-1920	2,523	13,981	16,504	2,176	820	297	851	20,648	788	7.6
1921-1925	2,112	12,610	14,722	3,888	1,024	569	1,105	21,308	813	7.3
1926-1930	2,084	13,595	15,679	5,375	1,760	408	1,781	25,002	954	8.0
1928	2,049	13,120	15,169	5,409	1,686	479	1,942	24,685	942	7.9
1929	2,008	14,017	16,025	6,044	2,062	474	1,929	26,534	1,013	8.3
1930	1,887	12,249	14,136	5,388	2,089	373	1,856	23,842	910	7.4
1931	1,622	10,011	11,633	5,106	1,813	284	1,721	20,557	785	6.3
1932	1,356	8,114	9,470	4,711	1,673	268	1,900	18,022	688	5.5
1933 ⁴	1,344	8,592	9,936	5,393	1,591	203	1,931	19,054	727	5.8

¹ The fuel equivalent for water power is calculated from the reported horsepower of installed water wheels. Prior to 1890 data were unsatisfactory, but estimates are included in the total.

² Calculated at 26,200,000 British thermal units per ton.

³ Based on the amount of coal displaced by gas, as estimated by the gas companies at the time.

⁴ Preliminary.

Source: Bureau of Mines.

[fol. 898]

PLAINTIFF'S EXHIBIT 32

Statement Showing Some Examples of Coal Tonnage Lost to Competing Forms of
Fuels or Energy in 31 States

(Compiled to November, 1934)

(Source: National Coal Association)

	Displaced by	Actual ton- nage lost (Tons)
Alabama:		
Anniston—Anniston Gas Company.....	Natural Gas	6,000
Cordova—Stephenson Brick Company.....	Natural Gas	10,000
Gadsden—Gulf States Steel Company.....	Natural Gas	100,000
Leeds—Universal Portland Cement Company...	Natural Gas	100,000
Mobile—Mobile Gas Company.....	Natural Gas	36,000
Montgomery—Montgomery Gas Company.....	Natural Gas	20,000
Connecticut:		
Ansonia—Ansonia Manufacturing Company.....	Oil	1,000
Ansonia—Farrell Birmingham Company.....	Oil	15,000
Baltic—Baltic Mills.....	Oil	15,000
Branford—Atlantic Wire Company.....	Oil	1,500
Bridgeport:		
Bassick Company.....	Oil	750
Bridgeport Safety Emery Wheel.....	Oil	200
Bridgeport Street Railway Company.....	Hydro-Elec.	20,000
Bridgeport Hardware Manufacturing Company	Oil	1,100
Cons. Ashcraft-Hancock Company.....	Oil	2,300
New Departure Manufacturing Company.....	Oil	8,700
Singer Manufacturing Company.....	Oil	10,000
Bristol:		
Bristol Brass Corporation.....	Oil	7,500
New Departure Manufacturing Company.....	Hydro-Elec.	10,000
Wallace Barnes Company.....	Hydro-Elec.	6,000
Chester—Jennings-Russell Manufacturing Co....	Oil	1,500
Collinsville—Collins Company.....	Oil	3,100
Cromwell—Pierson, Inc., A. W.....	Oil	2,000
Dayville—Assawaugan Company.....	Oil	6,000
Deep River—Dennison Bros.....	Oil	300
Deep River—White Wash Laundry.....	Oil	100
Derby—Driscoll Wire Company.....	Oil	1,000
Danielson—Larkin Reed Corp.....	Oil	1,200
Easthampton—Gong Belf Manufacturing Co....	Hydro-Elec.	2,000
Easthampton—Hill Brass Company.....	Hydro-Elec.	2,000
East Hartford—Pratt & Whitney Aircraft Co...	Oil	8,000
Elmwood—Abbott Ball Company.....	Oil	2,500
Forestville—Barnes Company, Wallace.....	Oil	2,100
Forestville—Sessions Clock Company.....	.....	5,000
Glastonbury—Williams Company, J. B.....	Oil	3,000
Groton—Electric Boat Company.....	Oil	2,500
[fol. 899]		
Hartford:		
American Wire Works Company.....	Oil	300
Billings & Spencer.....	Hydro-Elec.	9,000
Clark, Cuttaway, Harrow Company.....	Hydro-Elec.	1,500
Cushman Church.....	Oil	1,000
Colt Patent Firearms Company.....	Oil	20,000
Fuller Brush Company.....	Hydro-Elec.	8,000

PLAINTIFF'S EXHIBIT 24—Continued

	Displaced by	Actual ton- nage lost (Tons)
Frissell Fabric Company.....	Hydro-Elec.	1,500
General Cigar Company.....	Oil	3,000
Hartford Electric Light Company.....	Oil	140,000
Hartford Gas Company.....	Oil	11,000
Hartford Street Railway Company.....	Hydro-Elec.	10,000
Martin-Parry Corporation.....	Oil	400
Pratt & Whitney Company.....	Oil	10,000
Puritan & Smith.....	Oil	400
Royal Typewriter Company.....	Hydro-Elec.	8,000
Skayke Ball Bearing Company.....	Oil	500
Terry Steam Turbine Company.....	Oil	3,000
Union Drawn Steel Company.....	Oil	5,000
Meriden:		
Guarantee Hard Wheel Company.....	Oil	900
Handell Company.....	Hydro-Elec.	1,500
Manning Bowman & Company.....	Hydro-Elec.	5,000
Meriden Electric Light Company.....	Hydro-Elec.	8,000
Meriden Street Railway Company.....	Hydro-Elec.	4,000
Miller Company.....	....	7,000
Middletown:		
Middletown Electric Light Company.....	Hydro-Elec.	5,000
Middletown Street Railway Company.....	Hydro-Elec.	4,000
Russell Manufacturing Company.....	Hydro-Elec.	5,000
Tuttle Brick Company.....	Oil	5,000
Wesleyan University.....	Oil	2,500
Wilcox Crittendon Company.....	{ Oil	800
	{ Hydro-Elec.	3,000
Wilcox Lace Company.....	Oil	800
Mt. Carmel—Lyons Manufacturing Company...	Oil	1,000
Mystic—Packer Manufacturing Company.....	Oil	1,250
Naugatuck—Eastern Malleable Iron Company..	Hydro-Elec.	18,000
New Britain:		
Fafnir Bearing Company.....	Oil	3,000
Landers, Frary & Clark.....	Oil	9,000
New Britain Electric Light Company.....	Hydro-Elec.	10,000
New Britain Machine Company.....	Oil	1,200
North & Judd Manufacturing Company.....	Hydro-Elec.	10,000
Stanley Works.....	Oil	3,000
New Canaan—New Canaan Laundry.....	Oil	200
New Haven:		
Corsitry, Inc.....	Oil	1,200
New Haven Screw Company.....	Oil	1,000
Stiles Brick Company.....	Oil	3,000
United Smelting & Aluminum Company.....	Oil	700

{fol. 900]

New London:

New London Electric Light Company.....	Hydro-Elec.	12,000
New London Street Railway Company.....	Hydro-Elec.	7,000
Palmer Bros. (also Montville, Conn.).....	Hydro-Elec.	2,500
New Milford—Robertson Bleachery & Dye Works	Oil	5,900
Norwalk—American Hat Company.....	Oil	3,000

PLAINTIFF'S EXHIBIT 21—Continued

	Displaced by	Actual ton- nage lost (Tons)
Norwich—Atlantic Carton Company.....	Oil	1,500
Norwich—Norwich Belt Manufacturing Company.....	Oil	1,500
Norwich—Norwich Street Railway Company.....	Hydro-Elec.	5,000
No. Windham—Harris, C. R.....	Oil	600
Oakville—Autoyre Company.....	Oil	1,200
Oakville—Seymour Smith & Sons.....	Oil	570
Plainfield—Lawton Mills Corporation.....	Oil	16,000
Plainville—Standard Wheel Bearing Company...	Oil	3,800
Plantsville:		
Atwater Manufacturing Company.....	Hydro-Elec.	1,500
Blakeslee Forging Company.....	.....	1,000
Thompson Drop Forging Company.....	Hydro-Elec.	600
Portland—Brownstone Quarries.....	Oil	500
Putnam—Powdrell & Alexander.....	Hydro-Elec.	1,500
Rainbow—Stevens Paper Co., Edw.....	Oil	500
Sandy Hook—Curtis & Son, S.....	Oil	250
Seymour—New Haven Copper Company.....	Oil	6,000
Shelton—Driscoll Wire Company.....	Oil	1,000
Simsburg—Ensing Bickford Company.....	Oil	5,000
Southington—Southington Hardware Company..	Oil	1,500
So. Manchester—Cheney Bros.....	Oil	20,000
So. Norwalk—Nash Engineering Company.....	Oil	1,500
Springdale—Stamford Rolling Mills Company..	Oil	7,000
Stafford Springs—R. I. Worsted Company.....	Hydro-Elec.	3,000
Stamford—Stamford Rolling Mills.....	Oil	8,000
Thomaston—Seth Thomas Clock Company.....	Hydro-Elec.	9,000
Thomaston Manufacturing Company.....	Oil	800
Torrington—Torrington Electric Light Company.	Hydro-Elec.	3,800
Torrington—Torrington Street Railway Company	Hydro-Elec.	3,000
Unionville—Case Manufacturing Company.....	Oil	2,400
Versailles—Hygiene Fibre Company.....	Oil	1,500
Versailles—Inland Paper Board Company.....	Oil	40,000
Wallingford:		
Judd Company, H. L.....	Oil	3,000
Municipal Electric Light Company.....	Hydro-Elec.	3,000
N. Y. Insulated Wire Company.....	Hydro-Elec.	1,500
Wallace Silver Company, R.....	Hydro-Elec.	12,000
Wallingford Steel Company.....	Oil	2,500
Waterbury:		
Bristol Company.....	Oil	3,100
Lux Cloth Manufacturing Company.....	Oil	500
Waterbury Clock Company.....	Hydro-Elec.	10,000
Waterbury Electric Light Company.....	Hydro-Elec.	40,000
Waterbury Paper Company.....	Oil	1,000
Waterbury Rolling Mill Company.....	{ Oil	750
	{ Hydro-Elec.	750
Westbrook—Krothe Bros.....	Oil	1,000
[fol. 901]		
West Haven—Western Electric Company.....	Oil	250
Winsted—Fitzgerald Manufacturing Company...	Oil	1,500
Winsted—Gilbert Clock Company.....	Hydro-Elec.	3,000
Winsted—Morgan Silver Plate Company.....	Oil	800
Winsted—Strand & Sweet.....	Oil	1,500
Windsor—Windsor Company.....	Oil	1,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Windsor Locks:		
American Writing Paper Company.....	Oil	14,000
Cent. Conn. Light & Power Company.....	Hydro-Elec.	2,000
Montgomery, Geo. M.....	Oil	4,000
Montgomery Company, J. R.....	Oil	1,800
Delaware:		
Dover—Romeo & Company, F.....	Oil	300
New Castle—Delaware Rayon Company.....	Oil	10,000
Wilmington—National Vulcanized Fibre Co.....	Oil	18,000
Florida:		
Fernandina—Florida Phosphate Mines.....	Oil	20,000
Jacksonville—Logan Coal & Supply Company...	Oil	20,000
Pensacola—Pensacola Gas Company.....	Natural Gas	3,000
Georgia:		
Adairsville—Hood Brick Company, B. M.....	Natural Gas	1,300
Atco—Goodyear Cleanwater Mills.....	Hydro-Elec.	15,000
Atlanta:		
American Can Company.....	Natural Gas	1,100
Atlantic Biltmore Hotel.....	Natural Gas	3,500
Atlantic Gas Light Company.....	Natural Gas	40,000
Atlantic Ice & Coal Company.....	Hydro-Elec.	20,000
Atlantic & Pacific Bakery Company.....	Natural Gas	500
Atlantic Steel Company.....	Natural Gas	75,000
Block Candy Company.....	Natural Gas	500
Chevrolet Motor Company.....	Gas & Oil	3,100
Citizens & Southern Natl. Bank Building.....	Natural Gas	.....
Emory University.....	Natural Gas	.....
Exposition Cotton Mills.....	Hydro-Elec.	20,000
Georgia Baptist Hospital.....	Natural Gas	1,100
Georgia Terrace Hotel.....	Natural Gas	1,750
National Biscuit Company.....	Natural Gas	700
Stone Baking Company.....	Natural Gas	1,100
U. S. Prison.....	Natural Gas	12,500
U. S. Veterans Hospital.....	Natural Gas	1,400
Wilson & Company.....	Natural Gas	.....
Cartersville—Thompson-Weiman Company.....	Natural Gas	1,100
Cedartown—Standard Cotton Mills.....	Natural Gas	1,350
Cedartown—U. S. Finishing Company.....	Natural Gas	350
Columbus—Eagle Phoenix Mills.....	Hydro-Elec.	20,000
Gainesville—Gainesville Cotton Mills.....	Hydro-Elec.	10,000
Griffin—Ideal Bakery.....	Natural Gas	50
Griffin—Ponoma Products Company.....	Natural Gas	800
La Grange—Calloway Group Mills.....	Hydro-Elec.	15,000
[fol. 902]		
McIntyre—Akron Pigment Company.....	Natural Gas	350
McIntyre—Edgar Products Company.....	Natural Gas	14,500
Macon—Atlantic Ice & Coal Company.....	.....	15,000
Macon—Bibb Manufacturing Company.....	Hydro-Elec.	15,000
Macon—Carling Tile Company.....	Natural Gas	5,250
Macon—Dempsey Hotel.....	Natural Gas	1,000
Milledgeville:		
Georgia State College.....	Natural Gas	600
Oconee Clay Products Company.....	Natural Gas	3,500
Natural gas company has run a line down from Macon and this will displace coal in the amount of.....		150,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Rockmont—Southern States Portland Cement Co.	Natural Gas	38,500
Rome—Atlanta Plow Company.....	Natural Gas	1,200
Rome—Rome Hosiery Mills.....	Natural Gas	17,000
Savannah—Savannah Electric Company.....	Oil	50,000
Savannah—Savannah Sugar Refinery business...	Oil	50,000
Iowa:		
Cedar Rapids:		
Three Minute Cereal Company.....	....	15,000
Penick & Ford, Inc.....	....	100,000
Sinclair Company, T. M.....	....	40,000
Council Bluffs:		
Abraham Lincoln High School.....	Natural Gas	400
Deaf & Dumb State School.....	Natural Gas	3,500
Gooch Food Products.....	Natural Gas	500
Hurd Creamery.....	Natural Gas	3,750
J. Edmundson Hospital.....	Natural Gas	3,200
Lainson, Florist.....	Natural Gas	3,750
Sisters of Mercy.....	Natural Gas	1,500
Wilcox, Florists.....	Natural Gas	6,000
Woodward Candy Company.....	Natural Gas	2,500
Davenport—Kohrs Packing Company.....	....	8,000
Davenport—Western Flour Mills.....	....	17,500
Iowana—Riverside Power Manufacturing Co.....	....	65,000
Linwood—Dewey Portland Cement Company.....	....	135,000
Mason City:		
Decker, Jacob & Company.....	....	25,000
Electric Light Plant Company.....	....	25,000
Lehigh Portland Cement Company.....	....	112,000
Mason City Brick & Tile Company.....	....	65,000
Northwest States Portland Cement Co.....	....	160,000
Peoples Gas & Elec. Company.....	....	20,000
Muscatine—Heinze Company, H. J.....	....	Undetermined
Perry—Federal Public Service Company.....	Natural Gas	4,000
Sioux City:		
Armour Packing Company.....	Natural Gas	20,000
Catholic Institutions.....	Natural Gas	6,000
Cudahy Packing Company.....	Natural Gas	20,000
Morrill & Company, John.....	....	35,000
Sioux City Gas & Elec. Company.....	....	80,000
Swift Packing Company.....	Nat. Gas (60%)	22,000
[fol. 903]		
Illinois:		
Alton—Owens-Illinois Glass Company.....	....	200,000
Chicago:		
Crane Company.....	....	50,000
Domestic household consumers.....	Natural Gas	250,000
(23,000 burners installed in houses since July 1, 1933)		
General American Tank Car Company.....	....	30,000
Lever Bros.....	....	50,000
Republic Steel Corporation.....	Natural Gas	.....
Water gas sets and coal formerly used for manufacturing water gas coke at State Line Generating Company.....	....	1,000,000
Swift & Company.....	....	250,000
Depue—Mineral Point Zinc Company.....	....	30,000 to 50,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual tonnage lost (tons)
East St. Louis:		
Aluminum Ore Company.....	Natural Gas	400,000
Alco Ore Company.....	.....	250,000
O'Bear Nester Glass Company.....	.....	30,000
Eagle Pitcher Lead Company.....	.....	3,000
Granite City:		
Granite City Steel Company.....	.....	70,000
Natl. Enameling & Stpg. Company.....	.....	30,000
Union Starch & Rfg. Company.....	.....	60,000
Joliet—American Can Company.....	.....	12,000
Joliet—Ruberoid Company.....	.....	35,000
Ottawa—Libbey-Owens-Ford Company.....	.....	75,000
Ottawa—Natl. Plate Glass Company.....	.....	225,000
Roley—American Maize Products Company.....	.....	100,000
Streator—Mississippi Glass Company.....	.....	40,000
Streator—Owens-Illinois Glass Company.....	.....	90,000
Waukegan—Johns Manville Company.....	.....	50,000
Woodward—Roxana Corporation.....	Oil	125,000
Woodriver—Standard Oil Company.....	Oil	250,000
Indiana:		
East Chicago—Cudahy Packing Company.....	.....	10,000
Kansas:		
Emporia:		
Axe Bros. Bakery.....	Natural Gas	50
Broadview Hotel.....	Natural Gas	400
Citizens National Bank.....	Oil	100
College of Emporia.....	Natural Gas	500
Congress Apartments.....	Natural Gas	75
Humphrey's Bakery.....	Natural Gas	100
Martin Laundry.....	Oil	600
Newman Memorial Hospital.....	Oil	500
New Process Laundry.....	Oil	1,000
St. Mary's Hospital.....	Oil	400
State Teachers College.....	Oil	1,200
Junction City—Entire business district.....	Natural Gas	5,000
Manhattan—Kansas State Agr. College.....	Natural Gas	15,000
Ottawa—High School.....	Natural Gas	400
Ottawa—Ottawa College.....	Natural Gas	600
Ittawa—Ottawa College.....	Natural Gas	600
Tecumseh—Kansas Power & Light Company.....	Natural Gas	50,000
[fol. 904]		
Topeka:		
Beatrice Creamery.....	Natural Gas	7,500
Christ's Hospital.....	Natural Gas	800
City Hand Laundry.....	Natural Gas	1,200
Grace Cathedral.....	Natural Gas	1,000
Kansan Hotel.....	Natural Gas	600
Kansas Power & Light Company.....	Natural Gas	10,000
Merrill Packing Company.....	Natural Gas	15,000
Seymour Packing Company.....	Natural Gas	7,500
Topeka Packing Company.....	Natural Gas	200
Topeka Pure Milk Company.....	Natural Gas	2,000
Louisiana:		
Bogalusa—Bogalusa Paper Company.....	Natural Gas	60,000
Baton Rouge—State University.....	Natural Gas	5,000
New Orleans—American Sugar Refining Co.....	Natural Gas	150,000
New Orleans—New Orleans Public Service Co...	Natural Gas	275,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Maine:		
Auburn—Cushman Hollis Shoe Company.....	Oil	3,000
Augusta—Cushnoc Paper Company.....	Oil	25,000
Belfast—Amer. Agricultural Chemical Co.....	Hydro-Elec.	5,000
Brewer—Eastern Manufacturing Company.....	Oil	30,000
Bethel—Bethel Inn.....	Oil	400
Biddeford—Pepperell Manufacturing Company..	Hydro-Elec.	10,000
Biddeford—Trull Hospital.....	Oil	150
Bucksport—Maine Seaboard Paper Company...	Hydro-Elec.	40,000
Fairfield—Keyes Fibre Company.....	Oil	10,000
Farmingdale—Central Maine Power Company...	Oil	5,000
Lewiston—Lewiston Electric Company.....	Oil	1,000
Lincoln—Eastern Manufacturing Company.....	Oil	1,000
Livermore Falls—International Paper Company.	Oil	60,000
Madison—Great Northern Paper Company.....	Oil	30,000
Milo—American Thread Company.....	Hydro-Elec.	5,000
Norway—Tubbs Manufacturing Co.....	Hydro-Elec.	500
Old Town—Old Town Canoe Company.....	Hydro-Elec.	1,000
Oakland—North Wayne Tool Company.....	Hydro-Elec.	500
Pejepscot—Pejepscot Paper Company.....	Oil	15,000
Portland:		
Ayer-Houston Company.....	Oil	1,500
American Can Company.....	Oil	1,000
Bancroft & Martin.....	Oil	10,000
Burnham & Morrill.....	Oil	1,000
Cumberland Co. Power & Light Company....	Oil	10,000
Central Maine Cold Storage Company.....	Oil	1,200
Chapman Building.....	Oil	3,000
Columbia Coal Storage Company.....	Oil	350
Congress Square Hotel.....	Oil	5,000
Emery Waterhouse Company.....	Oil	125
Globe Laundry.....	Oil	800
Greely Laundry.....	Oil	800
[fol. 905]		
Hotel Lafayette.....	Oil	500
Henley-Kimball Company.....	Oil	200
Hinds Building.....	Oil	400
Maine Eye & Ear Infirmary.....	Oil	1,500
N. E. Cold Storage Company.....	Oil	3,000
Porteus Mitchell & Braun.....	Oil	300
Police Department Headquarters.....	Oil	100
Portland Buick Company.....	Oil	200
Ramsdell Packing Company.....	Oil	350
Strand Building.....	Oil	250
Seacoast Tanning Company.....	Oil	350
St. Barnabas Hospital.....	Oil	800
State Building.....	Oil	...
State Street Hospital.....	Oil	300
Trelawney Building.....	Oil	250
Winslow & Company.....	Oil	3,000
Rockland—Lawrence Packing Company.....	Oil	350
Rumford—International Paper Company.....	Oil	25,000
Saco—York Manufacturing Company.....	Hydro-Elec.	15,000
Sanford—Sanford Mills.....	Oil	25,000
Sanford—Goodall Worsted Company.....	Oil	25,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Searsport:		
American Agricultural Chemical Company....	Hydro-Elec.	10,000
Armour & Company.....	Hydro-Elec.	500
Summers & Company.....	Hydro-Elec.	500
Skowhegan—Maine Spinning Company.....	Hydro-Elec.	2,000
South Brewer—Eastern Manufacturing Company	Oil	500
South Lincoln—American Thread Company.....	Hydro-Elec.	5,000
South Windham—Androscoggin Pulp Company..	Oil	18,000
Waterville—Keyes Fibre Company.....	Oil	40,000
Waterville—Wyandotte Worsted Company.....	Oil	4,000
Westbrook—Dana Warp Mills.....	Oil	3,000
Wilton—Blue Mountain Inn.....	Oil	100
Wilton—Wilton Woolen Mills.....	Oil	5,000
Maryland:		
Baltimore:		
American Paving & Contracting Co.....	Oil	3,600
Anchor Post Fence Company.....	Oil	300
Baltimore Steam Packet Company.....	Oil	28,000
Commercial Pigments Company.....	Oil	750
Consolidated Gas, Elec. Light & Power Co....	Hydro-Elec.	58,000
Davidson Chemical Company.....	Oil	1,000
Ellicott Machine Corporation.....	Hydro-Elec.	1,000
Foote & Co., Inc., D. E.....	Hydro-Elec.	500
Grebb, Louis.....	Hydro-Elec.	300
Greenwald, Inc.....	Oil	2,000
Griffith & Boyd.....	Hydro-Elec.	100
Gunthers Brewery.....	Oil	5,000
High Pressure Pumping Station.....	Oil	5,000
Hinde & Dauch Paper Company.....	Oil	850
Lighthouse Service Company.....	Oil	2,000
Miller Fertilizer Company.....	Hydro-Elec.	2,500
[fol. 906]		
Mutual Chemical Company.....	Oil	30,000
Oles Envelope Company.....	Oil	100
Prudential Oil Corporation.....	Oil	15,000
Renneberg & Son, Edw.....	Oil	200
Standard Fruit & S. S. Co.....	Oil	12,000
Tin Decorating Company.....	Oil	5,000
University Hospital.....	Oil	3,600
Weiskittel & Sons Co., A.....	Oil	1,000
Frederick—Corp. of Frederick.....	Oil	1,500
Savage—Savage Manufacturing Company.....	Hydro-Elec.	4,000
Woodsboro—Barrick & Sons, S. W.....	Hydro-Elec.	600
Massachusetts:		
Andover—Tyler Rubber Company.....	Oil	5,000
Assonet—Crystal Dye & Bleachery Co.....	Oil	700
Attleboro:		
Apco Mossberg Corporation.....	Oil	1,000
Bigney Company, S. O.....	Oil	500
Briggs Company, D. F.....	Oil	700
Eden Company, C. H.....	Oil	250
Makepeace Company, D. E.....	Oil	800
Mossberg Pressed Steel Co.....	Oil	6,000
Simmons Company, R. P.....	Oil	500
Tappan Bros.....	Oil	500
Union Plate & Wire Company.....	Oil	1,000
Watson Company.....	Oil	500

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Wolfenden & Sons Company, R.....	Oil	5,000
Ayer—Ayer Electric Light Company.....	Hydro-Elec.	400
Ayer—Ayer Water Works.....	Hydro-Elec.	1,200
Beverly—United Shoe Machinery Company.....	Oil	10,000
Blackington—Blackington Company.....	Hydro-Elec.	500
Bondville—Bondville Bleachery & Dye Works...	Oil	7,500
Bondville—Boston Duck Company.....	Oil	7,500
Boston:		
American Rubber Company.....	Oil	1,000
Ashton Valve.....	Oil	1,200
Badger Building.....	Oil	1,200
Boston City Hospital.....	Oil	20,000
Cabot, Cabot & Forbes Bldg.....	Oil	6,000
Catholic Institutions.....	Oil	7,000
Christian Science Church.....	Oil	3,000
City of Boston Fire Department.....	Oil	5,000
City of Boston Schools.....	Oil	9,000
City of Boston Supply Company.....	Oil	25,000
Commonwealth Pier No. 5.....	Oil	2,800
Copley Plaza Hotel.....	Oil	4,000
Eastern S. S. Company—Bunkers.....	Oil	25,000
Edison Electric Ill. Company.....	Hydro-Elec.	125,000
Elliott Addressograph Company.....	Oil	3,000
Employers Liability Bldg.....	Oil	4,000
Filene's Sons Company, Wm.....	Oil	6,000
[fol. 907]		
Toss Co., H. C.....	Oil	1,200
Franklin Sq. House.....	Oil	1,000
Free Hosp. for Women.....	Oil	3,000
Gillette Safety Razor.....	Oil	15,000
Gypsum Co., U. S.....	Oil	15,000
J. Hancock Life Ins. Co.....	Oil	1,000
Hildreth Co., H. A.....	Oil	2,000
Holtzer-Cabot Elec. Co.....	Oil	900
Hotel Somerset.....	Oil	2,000
Kinney Mfg. Co.....	Oil	400
Lambrette-Garnette Mills.....	Oil	400
Mass. General Hospital.....	Oil	10,000
Mass. Memorial Hospital.....	Oil	1,000
New Eng. Confectionery Co.....	Oil	4,000
Nordblom's Bldgs., R. A.....	Oil	20,000
Old Colony Trust Co.....	Oil	1,000
Page & Shaw.....	Oil	1,200
Pilgrim Laundry.....	Oil	1,000
Plant Co., Thos. B.....	Oil	20,000
Prince Co., S. S.....	Oil	1,200
Quincy Mkt. & C. S. Whse Co.....	Oil	20,000
Revere Sugar Refining.....	Oil	25,000
Salada Tea Co.....	Oil	1,000
Simmons College.....	Oil	1,800
Simplex Wire & Cable Co.....	Oil	4,000
Standard Oil Co.....	Oil	2,500
State House.....	Oil	4,000
Stone & Webster.....	Oil	4,000
Security Mills.....	Oil	3,000
Squire Co., John B.....	Elec.	20,000
United Carr Fastner Co.....	Oil	5,000
United Drug Co.....	Oil	8,000
United Fruit Co.—Bunkers.....	Oil	60,000
Woods Machine Co., S. A.....	Oil	1,000
Bridgewater—White Shoe Co., L. L.....	Oil	4,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Brockton:		
Barbour Welting Co.....	Oil	1,600
Goldthwaite, C. H.....	Oil	300
Plymouth County Div.—Goudy Factory.....	Oil	700
White Star Laundry.....	Oil	1,200
Brookline—Chestnut Hill Pumping Sta.....	Oil	10,000
Cambridge:		
Aldens Speare's Sons Co.....	Oil	1,000
American Rubber Co.....	Oil	5,000
Ashton Valve Co.....	Oil	1,200
[fol. 908]		
Briggs Co., C. A.....	Oil	1,800
Harvard.....	Elec.	3,600
Dewey & Almy Chemical Co.....	Oil	1,500
Hews & Co., A. H.....	Oil	1,800
Ford Motor Co.....	Oil	250
Harvard Stillman Infirmary.....	Oil	500
Johnson Educator Food Co.....	Oil	500
Library Bureau.....	Oil	1,500
Mansion House Ice Cream Co.....	Oil	350
N. E. Confectionery Co.....	Oil	3,000
Rand-Kardex Bureau, Inc.....	Oil	600
Sawyer & Son, H. M.....	Oil	500
Canton:		
Plymouth Rubber Co.....	Oil	3,000
Springdale Finishing Co.....	Oil	4,000
Careyville—Taft Woolen Co.....	Elec.	1,200
Charlestown—Stickeny & Per Co.....	Oil	1,200
Charlestown—W. F. Schrafft & Sons.....	Oil	8,000
Chartley—Holmes Co.....	Oil	1,000
Chartley—Study Bros.....	Oil	500
Chester—Cortland Grinding Wheeler Corp.....	Oil	700
Chelsea—Forbes Lithograph Co.....	Oil	5,000
Chelsea—Mexican Petroleum Corp.....	.....	.....
Chelsea—Revere Rubber Co.....	Oil	30,000
Chicopee—Moore Drop Forging Co.....	Oil	18,500
Chicopee Falls—Stevens Arm Co.....	Elec.	10,000
City Mills—Buckley & Mann Inc.....	Elec.	2,500
Clinton:		
Bigelow-Sanford Carpet Co.....	Oil	20/25,000
Brusquet, N.....	Oil	30
Clinton Trust Co.....	Oil	200
Conti, A. E.....	Oil	100
Johnson, Allen.....	Oil	90
Roubaix Mills, Inc.....	Oil	750
Cliquot—Safepack Mills.....	Oil	1,000
Concord—Concord Municipal Light Co.....	Oil	5,000
Concord—Public Serv. Co.....	Elec.	40,000
Dighton—Anchor Color & Game Works.....	Elec.	500
Dighton—Mt. Hope Finishing Co.....	Oil	20,000
Dodgeville—Dodgeville Finishing Co.....	Elec.	500
Dudley—Dudley Paper Co.....	Oil	1,000
E. Barintree—City Service Refining Co.....	Oil	5,000
East Boston—Bethlehem Shipbuilding Corp.....	Oil	3,000
East Boston—Maverick Mills.....	Oil	4,000
E. Bridgewater—Edison Elec. Ill. Co. of Brockton	Oil	20,000
E. Dedham—Dedham Finishing Co.....	Oil	5,000
E. Hampton—Western Mass. Co.....	Elec.	1,500
E. Cambridge—House of Correction.....	Oil	2,700

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
E. Mansfield—Dustin Bros. Greenhouses.....	Oil	500
East Taunton—Chandler Oilcloth Co.....	Oil	3,000
East Whittenton—Whittenton Mfg. Co.....	Oil	8,000
[fol. 909]		
Everett:		
American Solv. & Chem. Corp.....	Oil	8,000
Carpenter-Morton Co.....	Oil	400
Everett Factories.....	Oil	1,000
Merrimac Chemical Co.....	Oil	40,000
Fall River:		
American Printing Co.....	Oil	35,000
F. R. Elec. Light Co.....	Oil	20,000
Mechanix Fdry. & Mach. Co.....	Elec.	500
Farnams—U. S. Gypsum Co.....	Oil	24,700
Farnumsville—Wuskanut Mills.....	Oil	3,500
Fitchburg:		
American Hand Laundry.....	Oil	50
Christ Church.....	Oil	130
Crocker-Burbank Ass'n.....	Oil	35,000
De Jonge Co., Louis.....	Elec.	2,000
Falulah Paper Co.....	Elec.	1,500
Falulah Paper Co.....	Oil	25,000
Grant Yarn Co.....	Oil	10,000
Hardy & Sons Co.....	Oil	115
Ideal Hand Laundry.....	Oil	60
Padula, J. A. (Bakery).....	Oil	150
Sacred Heart Church.....	Oil	250
St. Francis Church.....	Oil	180
St. Joseph's Church.....	Oil	200
Snow-White Laundry.....	Oil	125
Swanson Bakery.....	Oil	400
Florence—International Silver Co.....	Elec.	7,500
Fore River—Bethlehem Steel Corp.....	Oil	10,000
Framingham—Boston, Worcester & N. Y. St. Ry.	Elec.	5,000
Framingham:		
Butterworths Greenhouses.....	Oil	500
Int. Engineering Corp.....	Oil	1,000
Int. Engg. Co.....	Oil	1,200
Hodgman Rubber Co.....	Oil	2,000
Lakeview Press.....	Oil	300
Franklin:		
Appleton Rubber Co.....	Oil	5,000
Clark, Cutter & McDermott.....	Oil	1,000
Franklin Yarn Co.....	Elec.	800
Haywood Woolen Co.....	Elec.	1,200
Gardner:		
City of Gardner Water Dept.....	Elec.	250
Collier-Keyworth Co.....	Elec.	500
Gardner Auto Co.....	Oil	50
Gardner Elec. Light Co.....	Elec.	2,000
Gardner Upholstered Co.....	Elec.	500
Heywood Hospital.....	Oil	600
Heywood Wakefield Co.....	Elec.	6,000
Mahoney Chair Co.....	Elec.	500
Parker Bros.....	Oil	50
Silbert Co., A. W.....	Elec.	500

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Gloucester:		
Booth Fisheries.....	Oil	300
[fol. 910]		
Cape Ann Quarry Co.....	Oil	500
Gloucester Elec. Lt. Co.....	Oil	2,000
Greenfield:		
Greenfield Gas Light Co.....	Oil	1,400
Greenfield Tap & Die Corp.....	Oil	1,400
Groton:		
Groton Private Hospital.....	Oil	60
Groton Water Co.....	Elec.	200
Sacred Heart Church.....	Oil	60
Cuttyhunk—William Wood.....	Oil	2,000
Halifax—Halifax Gorden Co.....	Oil	2,000
Haverhill:		
Archibald, F., Inc.....	Oil	4,500
Building Trust Co.....	Oil	2,500/3,000
Allen, Edgar L.....	Oil	100
Snyder Shoe Co.....	Oil	500
Stevens, M. T. & Sons, Co.....	Oil	10,000
Hebronville—Ray Cotton Co.....	Elec.	2,000
Holyoke:		
Afflect Ruling & Stationery Co.....	Oil	30
American Tissue & Paper Co., 12,000 Elec.....	Oil	1,200
Buchanan Bolt & Wire.....	Oil	500
Eureka Blank Book Co.....	Oil	225
Holyoke Electric Co.....	Elec.	20,000
Holyoke Street Ry.....	Elec.	10,000
Holyoke Water Power Co.....	Elec.	5,000
Judd Paper Co.....	Oil	75
Marvellum Paper Co.....	Elec.	8,000
Mt. Holyoke College.....	Oil	5,000
Skinner & Sons Co.....	Elec.	20,000
Small Plants.....	Elec.	500
Taylor Logan Paper Co.....	Elec.	5,000
White & Wycoff.....	Elec.	9,000
Worthington Pump Co.....	Elec.	5,000
Hopedale—Draper Co.....	Elec.	10,000
Hudson:		
Elks Block.....	Oil	200
Elm Theatre.....	Oil	250
Hudson Co. Operative Bank.....	Oil	150
Hudson Light & Power Plant.....	Oil	2,500
Hudson National Bank.....	Oil	200
Hudson Worsted Co.....	Oil	4,000
Huntington—Loving Co., Wm. M.....	Oil	700
Indian Orchard—Chapman Valve Mfg. Co.....	Oil	3,000
Indian Orchard—Orchard Co.....	Oil	4,700
Ipswich—Burke & Son, F. L.....	Elec.	1,500
Lawrence:		
Amer. Woolen Co. (Washington M.).....	Oil	55,000
Amer. Woolen Co. (Wood Mills).....	Oil	195,000
Capital Theatre.....	Oil	6,000
Farwell Bleachery.....	Oil	150
Harwig Motor Co.....	Oil	125
Holy Rosary Church.....	Oil	350
Jersey Ice Cream Co.....	Oil	

PLAINTIFF'S EXHIBIT 32—Continued

[fol. 911]

	Displaced by	Actual ton- nage lost (Tons)
Lawrence:		
Klous, H.	Oil	1,000
Meadow Brook Laundry.....	Oil	500
Merchants Trust Co.....	Oil	40
Monomac Spinning Co.....	Oil	8,500
Pacific Mills.....	Oil	100,000
St. Augustine's Church.....	Oil	125
St. Mary's Convent.....	Oil	75
Leominster—Dupont Viscaloid Co.....	Oil	12,000
Leominster—Leominster Elec. Light Co.....	Elec.	5,000
Lowell:		
American Woolen Co. (Bay State M.).....	Oil	6,000
Bagshaw & Co., W. H.....	Oil	1,000
Lawrence Mfg. Co.....	Oil	10,000
Merrimac Mfg. Co.....	Oil	30,000
Nashua Mfg. Co.....	Oil	5,000
Post Office Garage.....	Oil	100
Waterhead Mills, Inc.....	Oil	7,500
U. S. Bunting Co.....	Oil	10,000
Lunenburg—Fish Farm.....	Oil	150
Lynn—Lydia Pinkham Medicine Co.....	Oil	500
Malden—Boston Rubber Shoe Co.....	Oil	5,000
Malden:		
Converse Rubber Co.....	Oil	3,500
Family Laundry.....	Oil	300
Halycon Laundry Co.....	Oil	800
Malden Elec. Co.....	Elec.	1,000
Malden Knitting Mills.....	Oil	3,000
Potter Drug & Chem. Corp.....	Oil	1,500
Revere Knitting Mills.....	Oil	100
Wadsworth Howland Co.....	Oil	500
Mansfield—Chocolate Refiners, Inc.....	Oil	4,000
Mansfield—Mansfield Bleachery.....	Oil	5,000
Marlboro—Duane Shoe Co.....	Oil	100
Marlboro Wine Goods Co.....	Oil	200
Maynard:		
American Powder Co.....	Oil	3,000
Assabet Savings Bank.....		
Case, W. B.....	Oil	100
Cleary, Genevieve.....	Oil	50
Fowler, Guyer.....	Oil	100
Gruber Bros.....	Oil	100
Guyer Fowler.....	Oil	100
Maynard Trust Co.....		
Roosevelt School.....	Oil	150
Medfield—Mitchell Co., E. B.....	Oil	3,000
Medford:		
Amrad Corp.....	Oil	500
Gair Co., Robt. Medford Br.....	Oil	500
Solvent Products Co.....	Oil	300
Tufts College.....	Oil	4,000
Warner & Childs.....	Oil	900
Worcester Paper Box Corp.....	Oil	1,000

PLAINTIFF'S EXHIBIT 32—Continued

[fol. 912]	Displaced by	Actual ton- nage lost (Tons)
Middleboro:		
Maxim Motor Co.....	Oil	150
Middleboro Poor Farm.....	Oil	100
Middleboro Savings Bank.....	Oil	100
Millbury—Felters Co.....	Oil	1,500
Millis—Safe Pack Co.....	Oil	1,500
Millville—Woonsocket Rubber Co.....	Oil	2,500
Milton—Baker & Co., Inc., Walter.....	Oil	12,000
Natick:		
Natick Box & Board Co.....	Oil	5,000
N. E. Pressed Steel Co.....	Oil	1,500
New Bedford:		
Acushnet Process Co.....	Elec.	2,500
Beacon Mfg. Co.....	Oil	12,000
Bristol Mfg. Co.....	Oil	5,000
Dartmouth Mfg. Co.....	Oil	15,000
Devon Mills.....	Elec.	3,000
Firestone Cotton Mills.....	Elec.	4,500
Fisk Rubber Co.....	Oil	10,000
Fisk Tire Fabric Co.....	Elec.	3,500
Grinnell Mfg. Co.....	Oil	3,000
National Spun Silk.....	Oil	6,000
Neild Mfg. Co.....	Oil	4,500
New Bedford Rayon Co.....	Elec.	5,000
Wamsutta Mills.....	Oil	18,000
Whitman Mills.....	Oil	12,000
Newton—Boston College.....	Oil	2,000
Newton—Saxony Worsted Mills.....	Oil	700
Newton—Security Mills, Inc.....	Oil	3,000
Newton U. Falls—Stowe & Woodward Co.....	Elec.	500
Northampton—Belding Hemingway Co.....	Oil	2,500
Northbridge—Kupper Bros.....	Oil	1,500
Northampton—Northampton Gas Light Co.....	Oil	3,000
Northampton—Northampton Street Ry. Co.....	Oil	5,000
Northampton—Rogers, Wm. A., Ltd.....	Oil	1,400
Northbridge—Whitin Mfg. Co., Paul.....	Oil	2,500
N. Abingdon—Plymouth Rock Ice Cream Co.....	Oil	500
N. Abingdon—Bay State Nurseries.....	Oil	1,000
N. Attleboro—Banks St. Greenhouses.....	Oil	400
N. Attleboro—Frank W. Whiting Co.....	Oil	500
Page & Baker Mfg. Co.....	Oil	800
Whiting Co., Frank W.....	Oil	500
N. Cambridge—Dewey & Almy Chem. Co.....	Oil	2,000
N. Dighton—Mt. Hope Finishing Co.....	Oil	20,000
N. Easton—Ames Shovel & Tool Co.....	Oil	2,000
N. Plymouth—Plymouth Cordage Co.....	Oil	25,000
Palmer—Better Brushes, Inc.....	Oil	200
Palmer—Wickwire—Spencer Steel Co.....	Oil	1,400
Peabody—Danvers Bleachery & Dye Works.....	Oil	3,000
Hunt Rankin Leather Co.....	Oil	1,000
Pepperell Water Dept.....	.....	.....
Pittsfield—Berkshire Street Ry. Co.....	Oil	5,900
[fol. 913]		
Pittsfield—Jones & Son, E. H.....	Oil	1,000
Maplewood Cleaners & Dyers, Inc.....	Oil	500
Pittsfield—N. Eng. Lime Co.....	Oil	10,000
Pittsfield—Pittsfield St. Ry. Co.....	Elec.	6,000
Plymouth—American Woolen Co.....	Oil	3,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Plymouth—Edes Mfg. Co.....	Oil	250
Plymouth—Puritan Mills.....	Oil	6,000
Quincy—Bethlehem Steel Corp.....	Oil	10,000
Quincy—Eastern Mass. St. Ry. Co.....	Oil	60,000
Reading:		
Reading Elec. Lt. Co.....	Elec.	3,000
Reading Rubber Mfg. Co.....	Oil	4,000
Reading Sanford Mills, Inc.....	Oil	12,000
Revere—Forbes Lith-Mfg. Co.....	Oil	5,000
Riverdale—Kupper Bros.....	Oil	2,500
Rockport:		
Cape Ann Tool Co.....	Oil	500
Johnson Quarry.....	Oil	500
Rockport Anchor Works.....	Oil	1,500
Russell—Westfield River Paper Co.....	Oil	5,900
Salem—Salem Electric Co., Elec. 60,000.....	Oil	10,000
Saundersville—Saunders Cotton Mills.....	Oil	2,000
Saxonville—Roxburg Carpet Co.....	Oil	6,000
Shawsheen—American Woolen Co.....	Oil	25,000
Sheffield—U. S. Gypsum Co.....	Oil	10,200
Somerset—Montaup Elec. Light Co.....	Oil	250,000
Sommerville—Agar Mfg. Co.....	Oil	100
Somerville—No. Packing & Prov. Co.....	Oil	18,000
Somerville—Squire & Co., J. P.....	Oil	16,000
Southbridge—Amer. Optical Co.....	Oil	25,000
Southbridge—Atlas Plywood Corp.....	Elec.	1,000
Southbridge:		
Central Optical Co.....	Oil	1,000
Hyde Mfg. Co.....	Oil	1,000
Littlefield Shuttle Co.....	Oil	500
Snell Mfg. Co.....	Oil	500
Southbridge Elec. Co.....	Elec.	3,500
Southbridge Ptg. Co.....	Oil	9,000
Southbridge Finishing Co.....	Oil	7,000
Webster Elec. Lt. Co.....	Oil	3,000
So. Weymouth—Stetson Shoe Co.....	Oil	3,000
So. Wilmington—Merrimac Chemical Co.....	Oil	3,000
Springfield:		
Amer. Bosch Magneto Co.....	Oil	2,300
Blair Mfg. Co.....	Oil	3,000
Elwell Iron Works, H. F.....	Oil	800
Gilbert & Barbour.....	Oil	3,000
Hampden Grindging Wheel Co.....	Oil	1,400
Indian Motor Cycle Co.....	Elec.	10,000
Moore Drop Forge Co.....	Oil	1,200
N. E. Pack. Mach. Co.....	Oil	500
[fol. 914]		
Package Machinery Co.....	Oil	800
Perkins Soap Co.....	Oil	500
Philip Buston, Inc.....	Oil	90
Springfield Elec. Lt. Co.....	Elec.	40,000
Stoneham:		
Amer. Gelatine Co.....	Elec.	4,500
Bay State Box Co.....	Elec.	1,500
U. S. Army.....	Oil	4,000
Stoughton:		
Binton & Co., F. E.....	Oil	200
Phillips, F. C.....	Oil	150
Shawmut Wollen Mills.....	Oil	300
Sudbury—Hawes, E. Roy.....	Oil	100

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Tauton:		
Dudley, Sumner A.....	Elec.	500
Glenwood Range Co.....	Oil	1,000
Herrodite Finishing Co.....	Oil	2,000
Tauton Municipal Light Co.....	Oil	18,000
Taunton & N. Bedf. Copper Co.....	Oil	15,000
Robertson Motor Car Co.....	Oil	200
Stiles & Hart Brick Co.....	Oil	3,500
Taunton Knitting Co.....	Oil	1,000
Taunton Rubber Co.....	Oil	2,500
Whittendon Mfg. Co.....	Oil	15,000
Tewksbury—Patton & Co.....	Oil	500
Tewksbury—State Infirmary.....	Oil	10,000
Three Rivers—Otis Co.....	Oil	7,500
Turner Falls—Greenfield Tap & Die Corp.....	Oil	700
Uxbridge—Worcester Suburban Elec. Co.....	Elec.	5,000
Waban—Boston Gardening Co.....	Oil	900
Wakefield—Crescent Laundry.....	Oil	250
Waltham:		
Belgian Enamel Corp.....	Oil	1,000
Belgian Spinning Co.....	Oil	1,000
Bettinger Spinning Co.....	Oil	10,000
Boston Mfg. Co.....	Oil	500
Potter Pres.....	Oil	5,000
Waltham Bleachery & Dye Works.....	Oil	1,500
Waltham Foundry Co.....	Oil	7,500
Ware—Bliss Fabyan & Co.....	Oil	
Watertown:		
Hood Rubber Co.....	Oil	20,000
Lewardos, Inc.....	Oil	3,000
Watertown Arsenal.....	Oil	6,000
Webster:		
The Slater Co.....	Oil	10,000
(This company cancelled contract for coal with New. Eng. Coal & Coke Co., stating that due to recent reduction in oil price they could not afford to burn coal.)		
Slater & Sons, Inc.....	Oil	7,500
Webster Mills.....	Oil	9,000
Wellesley:		
Babsons Statistical Org.....	Oil	1,000
[fol. 915]		
Cafars Greenhouses, A.....	Oil	250
Lake Waban Laundry Co.....	Oil	500
Wellesley College.....	Oil	10,000
Westfield:		
Westfield Elec. Lt. Co.....	Elec.	4,500
Westfield Mfg. Co.....	Oil	1,400
W. Dudley—W. Dudley Paper Co.....	Oil	2,500
W. Medway—Stone Mills Co.....	Elec.	500
W. Springfield:		
Gelbert & Baker Mfg. Co.....	Oil	12,000
New England Smelting Works.....	Oil	700
Wico Elec. Co.....	Oil	1,000
W. Stockbridge—Grangers Mfg. Co.....	Oil	500
W. Stockbridge—Lee Lime Corp.....	Oil	700
W. Warren—Thorndike Co.....	Oil	6,000
Whitinsville—Whitinsville Spin Ring Co.....	Oil	3,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Wilkinsonville—Anco Mills.....	Oil	2,000
Williamstown—Berkshire Fine Spin Assn.....	Elec.	3,000
Winchendon—General Box Co.....	Elec.	2,500
Winchendon—Winchendon Elec. Light & P. Co..	Elec.	3,000
Winchester:		
N. England Laundries Co.....	Oil	500
Puffer Mfg. Co.....	Oil	1,500
Winchester Ldry. Co.....	Oil	2,000
Woburn—Bailey & Blendinger Mfg. Co.....	Oil	500
Woburn—Tribble Cordage Mills.....	Oil	300
Worcester:		
Adams, J. J.....	Oil	165
American Optical Co.....	Oil	200
Amer. Steel & Wire Co.....	Oil	25,000
Artex Grinding Co.....	Oil	135
Art Museum.....	Oil	200
Assumption College.....	Oil	500
Bieber-Polar Co.....	Oil	135
Bowker-Hamblin Co.....	Oil	235
Budish & Kaplan.....	Oil	135
Calvary Stearns Co.....	Oil	200
Church of Ascension.....	Oil	165
City of Worcester (All Places).....	Oil	400
John P. Coughlin.....	Oil	135
Crompton & Knowles.....	Elec.	3,000
Eagles Bldg.....	Oil	200
Fairlawn Hospital.....	Oil	335
Federal Baking Co.....	Oil	165
Fitzgerald West St. (All Places).....	Oil	165
Worcester-Hadley Furniture Co.....	Oil	165
Hahnemann Hospital.....	Oil	200
Harper, Jos.....	Oil	135
Hatch & Barnes.....	Oil	235
Hillcrest Dairy.....	Oil	200
Holy Name of Jesus Church.....	Oil	260
Humphrey G. Grafton St.....	Oil	165
Hyatt, Irving St. (All Places).....	Oil	165
{fol. 916]		
Johnson Wire.....	Oil	300
Johnson & Bassett.....	Oil	265
Lady of Mt. Carmel Church.....	Oil	165
Lady of Vilna Church.....	Oil	200
McDermott, Dr. (All Places).....	Oil	200
Manning Pie Bakery.....	Oil	165
Mass. Baking Co.....	Oil	235
Mass. Protective Assn.....	Oil	235
Notre Dame Church.....	Oil	235
Norton Co.....	Oil	235
Odd Fellows Bldg.....	Oil	165
Osgood Bradley Car Works.....	Oil	2,500
Rice, Barton & Wales.....	Oil	200
Rockwood Sprinkler Co.....	Oil	2,000
Sacred Heart Church.....	Oil	235
St. Ann's Church.....	Oil	135
St. Ann's Orphanage.....	Oil	235
St. Casimir's Church.....	Oil	300
St. John's Church (All Places).....	Oil	165
St. Mary's Church.....	Oil	235

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
St. Margaret's Church.....	Oil	135
St. Matthew's Church.....	Oil	260
St. Steven's Church.....	Oil	200
Second Advent Church.....	Oil	165
Sisters of Mercy.....	Oil	200
Stafford Iron Works.....	Oil	165
Standard Foundry.....	Oil	235
Telegram & Gazette.....	Oil	265
Washburn & Garfield.....	Oil	235
Woods, W. J.....	Oil	165
Worcester Co-op. Bank.....	Oil	165
Worcester Elec. Light Co.....	Oil	335
Worcester Lawn Mower Co.....	Oil	300
Worcester Stamped Metal Co.....	Oil	165
Worcester St. Ry. Co., also Millberry, Mass...	Oil	26,000
Worcester Women's Club.....	Oil	135
White & Bailey Co.....	Oil	1,000
Zylonite—Hoosac Valley Lime Co.....	Oil	9,200
Zylonite—N. E. Lime Co.....	Oil	24,700
[fol. 917]		
Michigan:		
Alma—Crystal White Sugar Co.....	Oil	10,000
Grand Haven—City of Grand Haven.....	Oil	14,000
Midland—Dow Chemical Co.....	Oil	200,000
Milwaukee—Commonwealth Power Co.....	Oil	73,000
Mt. Pleasant—Isabella Sugar Co.....	Oil	15,000
Minnesota:		
Albert Lea—Electric Light Plant.....	Natural Gas	34,000
Albert Lea—Interstate Power Co.....	Gas	25,000
Austin—Geo. Hormel & Co.....	Gas	35,000
Minneapolis—Minneapolis Gas Light Co.....	....	65,000
Minnesota—Minnesota State Institution.....	....	27,000
Newport—Cudahy Packing Co.....	....	15,000
Northfield—Carleton College.....	....	4,000
Owantonna—City Light Plant.....	Natural Gas	10,000
Rochester—City Light Plant.....	Natural Gas	16,000
Rochester—Franklin Heating System.....	Natural Gas	10,500
Rochester—State Hospital.....	Natural Gas	10,500
St. Paul—Armour & Co.....	....	90,000
St. Paul—Swift & Co.....	....	75,000
Mississippi:		
Biloxi—Biloxi Gas Co.....	Natural Gas	10,000
Bulport—Miss. Power Co.....	Natural Gas	30,000
Jackson—Buckeye Cotton Oil Co.....	Natural Gas	10,000
Jackson—Jackson Gas Co.....	Natural Gas	10,000
Laurel—Masonite Corp.....	Natural Gas	25,000
Meridian—Insane Hospital.....	Natural Gas	8,000
Missouri:		
Crystal City—Pittsburg Plate Glass Co.....	Natural Gas	180,000
Jefferson City—Mo. Power & Light Co.....	Natural Gas	47,500
Hines—St. Louis County Water Co.....	Electric	13,500
Kansas City—Armour & Co.....	Natural Gas	120,000
Kansas City—Cudahy Packing Co.....	Natural Gas	48,000
Kansas City—Standard Oil.....	Natural Gas	327,500
Kansas City—Swift & Co.....	Natural Gas	48,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Kansas City—Wilson Packing Co.....	Natural Gas	48,000
St. Louis—Alpha Portland Cement Co.....	Gas	80,000
St. Louis—American Can Co.....	.....	2,000
St. Louis—Crunden Martin Mfg. Co.....	.....	5,000
St. Louis—Evans & Howards Service Co.....	.....	20,000
St. Louis—General Cables Corp.....	.....	5,000
St. Louis—Hydraulic Press Brick Co.....	.....	25,000
St. Louis—Krey Packing Co.....	.....	12,000
St. Louis—Laclede Christy Clay Products Co....	Gas	20,000
St. Louis—Mississippi Glass Co.....	.....	30,000
St. Louis—Monarch Metal Products Co.....	.....	150
St. Louis—Orchard Paper Co.....	.....	600
St. Louis—Quick Meal Store Co.....	.....	8,000
St. Louis—St. Louis Malleable Casting Co.....	.....	6,000
Nebraska:		
Hastings—Municipal Light Plant.....	Natural Gas	4,600
Lincoln—Iowa-Nebraska St. & Power Co.....	Natural Gas	90,000
Omaha—Armour Packing Co.....	Natural Gas	127,500
Omaha—Cudahy Packing Co.....	Natural Gas	55,000
Omaha—Dold Packing Co.....	Natural Gas	18,250
So. Omaha—Armour & Co.....	.....	100,000
So. Omaha—Cudahy Packing Co.....	.....	5,000
[fol. 918]		
New Hampshire:		
Berlin:		
Berlin Street Railway Co.....	Elec.	2,500
International Paper Co.....	Oil	10,000
Belmont Hosiery Co.....	Elec.	1,000
Claremont:		
Claremont Paper Co.....	Oil	5,000
Magnet Theatre.....	Oil	200
St. Mary's Church.....	Oil	150
Concord—Perry Bros. Granite Co.....	Elec.	400
Conway—Conway Elec. Light & Power Co.....	Elec.	1,500
Danbury—Danbury Light & Power Co.....	Elec.	1,000
Dover—Pacific Mills.....	Elec.	15,000
E. Andover—East Andover Light & Power Co...	Elec.	1,500
Franklin:		
Buell Block.....	Oil	100
Franklin Light & Power Co.....	Elec.	2,000
Franklin National Bank.....	Oil	200
Griffin Co., G. W.....	Oil	500
Pastime Theatre.....	Oil	60
Pourtois Block.....	Oil	25
Proctor Block.....	Oil	30
Stewart Block.....	Oil	75
Suloway Mills.....	Oil	3,800
Hanover—Dartmouth College.....	Oil	10,000
Hill—Hill Light & Power Co.....	Elec.	2,000
Keene:		
Hotel Ellis.....	Oil	150
Perkins Machine Co.....	Oil	125
St. Bernard's Parochial School.....	Oil	200
Turner Inn.....	Oil	150
Laconia:		
Harriman Block.....	Oil	100
Laconia Gas & Electric Co.....	Oil	4,000
Laconia National Bank.....	Oil	75

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Lakeport:		
Lakeport National Bank.....	Oil	75
Mount Belknap Hotel.....	Oil	100
Lake Sunapee—W. F. Mortan.....	Oil	150
Lebanon—Carter & Churchill Co.....	Oil	500
Lebanon—Carter, H. W. & Sons.....	Oil	100
Lisbon—Lisbon Mfg. Co.....	Oil	1,500
Littleton—Littleton Power Co.....	Oil	1,500
Littleton—Kendrick & Davis Co.....	Oil	500
Manchester:		
Amoskeago Mfg. Co.....	Oil	75,000
Public Service Co., Elec. 25,000.....	Oil	25,000
Sihulkau Shoe Co.....	Oil	150
Meridith:		
Utilities Power Co.....	Elec.	2,000
Merrimack—Stockley, F. A.....	Elec.	500
Milford—Sowhegan Valley Elec. Co.....	Elec.	1,500
Nashua:		
Asbestos Wood & Shingle Co.....	Oil	200
Dunlop Block.....	Oil	150
[fol. 919]		
Nashua Manufacturing Co.....	Oil	25,000
Oakland Pontiac Bldg.....	Oil	100
Snow White Laundry.....	Oil	600
Goodrich Falls Elec. Co.....	Oil	1,000
Newport—Newport Elec. Light Co.....	Elec.	1,000
Portsmouth—New Hampshire Gas & Elec. Co., Elec. 25,000.....	Oil	25,000
Rochester—Fownes Mfg. Co.....	Elec.	2,000
Tilton—Ideal Mfg. Co.....	Oil	100
Warren—Mica Crystal Co.....	Elec.	50
Warren—Water & Lighting Co.....	Elec.	1,000
Wolfebora—Wolfebora Fire Precinct.....	Oil	450
New Jersey:		
Allwood:		
Osborne Co.....	Oil	2,000
Alpha—Vulcan Silk Co.....	Oil	200
Atlantic Highlands—County Gas Co.....	Oil	4,500
Bayonne:		
E. Jersey R. R. & Terminal Co.....	Oil	3,700
Electric Dynamic Co.....	Oil	900
Huber, J., Inc.....	Oil	600
Bayonne—Ingram Richardson Corp.....	Oil	350
International Nickel Co.....	Oil	100
Ogden, J. E.....	Oil	350
Belleville—Harlow & Goodman Co.....	Oil	1,500
Bloomfield—Eastern Love & Mfg. Co.....	Oil	700
Bloomfield:		
General Electric Works.....	Oil	17,900
Lehn & Fink Co.....	Oil	4,400
Nevins Church Press.....	Oil	900
Peerless Tube Co.....	Oil	1,200
Wiggins, H. B., Sons Co.....	Oil	1,200
Boonton:		
Van Raelte Silk Co.....	Oil	600
Bound Brook—Causse Mfg. & Importing Co.....	Oil	300
Bound Brook—Cooke, E. L. & Co.....	Oil	500
Bound Brook—Fischer-Sweeney Bronze Co.....	Oil	250

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Bridgeton:		
Bridgeton Water Works.....	Elec.	150
Butler—Butler Munic. Elec. St. Plant.....	Oil	100
Camden:		
Southwark Mfg. Co.....	Oil	1,200
Sturtevant Mfg. Co., B. F.....	Oil	300
Carteret:		
Amer. Agricultural Chem. Co.....	Oil	4,500
Metal & Thermmt Corp.....	Oil	12,000
Moore & Co., Inc.....	Oil	250
Warner Chemical Co.....	Oil	12,000
Clinton.....	Oil	4,000
Eureka Printing Co.....	Oil	4,000
Dunnellen—Art Color Printing Co.....	Oil	900
E. Patterson—Nat'l. Silk Dyeing Co.....	Oil	25,000
Edgewater—Barrett Co.....	Oil	22,000
Edgewater—National Sugar Co.....	Oil	50,000
[fol. 920]		
Edgewater—Spencer Kellogg & Sons.....	Oil	22,000
Edison—Edison Cement Co.....	Elec.	50,000
Elizabeth—Elizabethtown Consol. Gas Co.....	Oil	43,000
Elizabeth—Nat'l. Elec. Products Co.....	Oil	22,000
Fairview—Bellman Brook Bleachery.....	Oil	500
Farmingdale—A. C. Soper & Co.....	Oil	178,500
Flemington—New Jersey Northern Gas Works..	Oil	500
Garfield—Hammersey Mfg. Co.....	Oil	1,000
Garwood—Aeolian Co.....	Oil	5,300
Garwood:		
Thatcher Foundry Co.....	Oil	1,800
Wailes-Dove-Herminston Corp.....	Oil	1,800
U. S. Aluminum Co.....	Oil	2,900
Grasselli:		
American Cyanamid Co.....	Oil	17,800
General Ariline Co.....	Oil	21,000
Grasselli Chemical Co.....	Oil	9,000
Structural Gypsum Co.....	Oil	5,500
Warner-Quinlan Co.....	Oil	6,500
Hackensack—Berger Products Co.....	Oil	700
Hackensack—Cito Chemical Co. of America.....	Oil	3,000
Harrison—Edison Lamp Works.....	Oil	2,000
Hawthorne—Textile Dyeing Co. of America.....	Oil	24,000
Jamesburg—N. J. State Home for Boys.....	Oil	178,500
Jersey City:		
Air Reduction S. Co.....	Oil	500
American Can Co.....	Oil	3,000
Armour & Co.....	Oil	300
Boyle, J. F. & Co.....	Oil	9,000
Brunswick Laundry.....	Oil	1,200
Erie R. R.....	Oil	800
Gandier, J. H. Co.....	Oil	50
General Baking Co.....	Oil	1,800
Gillespie Varnish Co.....	Oil	250
Greater Corrugated Paper Co.....	Oil	1,200
Inter-Folding Box Co.....	Oil	250
Koven, L. O. & Bro., Inc.....	Oil	1,200
Lehigh Valley R. R.....	Oil	700
Lorillard, P. & Co.....	Oil	1,500
Merrill Spinning Co.....	Oil	350

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Mueaney Iron Works, F. J.....	Oil	600
National Products Refg. Co.....	Oil	1,500
New Jersey & N. Y. R. R.....	Oil	10
N. Y. S. & W. R. R.....	Oil	30
North Hudson Grocery Co.....	Oil	100
Reimer, Robt., Inc.....	Oil	150
Ryerson, J. T. Co.....	Oil	500
Standard Laundry.....	Oil	250
Whitlock Cordage Co.....	Oil	4,000
Kearney—Puolir Serv. Corp.....	Oil	700,000
Kearney—Carborundum Co.....	Oil	6,000
Keyport—Calco Chemical Co.....	Oil	700
Lincoln—C. A. Leetch Mfg. Co.....	Oil	250
Lirden—Commercial Steel Equipment Co.....	Oil	119,000
[fol. 921]		
Lirden—John Norman Carpet Co.....	Oil	178,500
Little Falls—Passaic Consol. Water Co.....	Oil	30,500
Lodi—Gregg Co.....	Oil	1,500
Lodi—United Piece Dye Works.....	Oil	900
Morristown—Electrical Alloy Co.....	Oil	250
Mountain View—Enterprise Brick Works.....	Oil	600
Mountain View—Mountain View Brick Works...	Oil	300
Maywood—Citro Chemical Co.....	Oil	500
Millington—Asbestos, Ltd.....	Oil	700
Newark—American Can Co.....	Oil	700
Newark:		
American Oil & Supply Co.....	Oil	700
Arglo-American Varnish Co.....	Oil	1,750
J. L. Armitage & Co.....	Oil	1,500
Ballantine, P. & Sons.....	Oil	1,450
Bamberger, L. & Co.....	Oil	2,500
Blanchard Bros.....	Oil	8,000
Burroughs Co.....	Oil	600
Chien, J. & Co.....	Oil	300
Clark Thread Co.....	Oil	25,000
Claudius Ash & Co.....	Oil	350
Devoe & Reynolds Co., Inc.....	Oil	700
Driver Harris Co.....	Oil	3,500
Eagle Picher Lead Co.....	Oil	3,000
Eastern Steel Castings Co.....	Oil	700
Essex Varnish.....	Oil	700
Gattfried Krueger Brewing Co.....	Oil	50
Geneese Baking Co.....	Oil	1,400
Gross & Co., A.....	Oil	700
Harell Mfg. Co.....	Oil	300
Hertz, Max Leather Co.....	Oil	900
Hess & Drucker, Inc.....	Oil	2,000
Irvington Varnish & Insulator Co.....	Oil	200
Kraewter & Co.....	Oil	200
Lincoln Farm Products Co.....	Oil	1,000
Murphy Varnish Co.....	Oil	3,000
National Fork Washer Co.....	Oil	1,200
Pyrere Mfg. Co.....	Oil	1,200
Republic Varnish Co.....	Oil	700
Sherwin-Williams Co.....	Oil	700
Simons Pipe Berding Works.....	Oil	350
Sweet Foundry Co., Wm. J.....	Oil	600
Universal Tobacco Mach. Co.....	Oil	100
A. C. Waterman Co.....	Oil	900
Woburn-Degressing Co.....	Oil	3,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
New Brunswick:		
American Incubator Co.....	Oil	300
Armstrong Cork Co.....	Oil	1,200
Autozyline Chemical Co.....	Oil	150
Cadgene Piece Dye Works.....	Oil	350
Gulhenkain Seamless Rug Co.....	Oil	300
Johnson & Johnson.....	Oil	6,000
Webb Wire Works.....	Oil	500
Nutley—Westinghouse Lamp Co.....	Oil	3,000
[fol. 922]		
Perth Amboy—Federal Seaboard Terra Cotta Co.	Oil	3,000
Perth Amboy—Fords Porcelain Works.....	Oil	12,000
Perth Amboy—Pardoe Works, C.....	Oil	1,750
Perth Amboy—Rossman Coys.....	Oil	1,500
Patterson:		
Empire Piece Dyeing Co.....	Oil	5,000
Expert Dyeing Co.....	Oil	2,000
Hessler Laundry.....	Oil	3,000
Lyons Piece Dye Works.....	Oil	10,000
Nichelson File Co.....	Oil	500
Paterson-United Piece Dye Works.....	Oil	25,000
Weidman Silk Dyeing Co.....	Oil	71,400
Wright Aeronautical Corp.....	Oil	7,000
Passaic:		
Botany Worsted Mills.....	Oil	25,000
McLean, Andrew Co.....	Oil	500
Manhattan Print Works.....	Oil	1,500
Midwest Pipe Co.....	Oil	500
Minwax Co.....	Oil	100
Okonite Co.....	Oil	15,000
Union Bldg. & Const. Co.....	Oil	600
Rahway:		
Nat'l. Pneumatic Co., Inc.....	Oil	700
Royal Mfg. Co.....	Oil	200
Uniform Chemical Products, Inc.....	Oil	250
Red Bank—Monmouth Consolidated Water Co..	Oil	50
Ridgefield—Denson Corrugated Paper Co.....	Oil	1,750
Rutherford—Flintkote Co., Inc.....	Oil	12,000
Rutherford—McCullough Wm. & Co.....	Oil	3,000
Secaucus—Hanson County Mental Disease Hos- pital.....	Oil	1,750
South River—American Enameled Brick & File Co.....	Oil	1,200
South River:		
Nat'l. Fireproofing Co.....	Oil	1,750
N. Y. & N. J. Clay Products Co.....	Oil	1,200
South River Brick Co.....	Oil	1,200
Summit—Enterprise Laundry.....	Oil	300
Trenton—Federated Metals Corp.....	Oil	3,000
Trenton—G. B. Hill & Co.....	Oil	4,000
Trenton—Imperial Porcelain Co.....	Oil	1,450
Trenton—Lennox Co.....	Oil	3,000
Trenton—Trenton Potteries.....	Oil	21,400
Vineland—Vineland Flint Glass Co.....	Oil	800
Westfield—Van Doren Laundry Service.....	Oil	175
Vulcan Asbestos Mfg. Co.....	Oil	600

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
New York:		
Albany:		
Albany Felt Co.....	Oil	1,500
B. T. Babbitt, Inc.....	Oil	2,000
A. P. W. Paper Co.....	Oil	700
Simmons Machine Coal Corp.....	Oil	350
Amsterdam:		
Ritter Chemical Co.....	Oil	700
Auburn:		
Bowen Products Co.....	Elec.	15,500
[fol. 923]		
Auburn:		
Columbia Rope Co.....	Elec.	9,000
Henry & Allen.....	Elec.	4,000
Henry Forge & Coal Co., Inc.....	Oil	3,000
McIntosh Seymore Co.....	Elec.	10,000
Richard Eccles Co.....	Oil	1,800
Batavia:		
Climax Corp.....	Oil	4,700
Doehler Dic. Casting Co.....	Oil	1,500
Massey-Harris-Harvester Co.....	Oil	5,000
Bath:		
Bath Water Works Co.....	Oil	700
Bay Shore—Bay Shore Hospital.....	Oil	350
Briarcliff Manor—Briarcliff Laundry.....	Oil	350
Brooklyn:		
Aaron Levy Co.....	Oil	1,000
Amer. Mfg. Co.....	Oil	1,500
Askell Safety Bay Co.....	Oil	1,500
Atlantic Tidewater Team.....	Oil	12,000
Bishoff, Inc.....	Oil	150
Brooklyn Fire Brick Work.....	Oil	2,500
Brooklyn Shield & Rubber Co.....	Oil	150
Chamber of Commerce Bldg.....	Oil	300
Chelsea Fibre Mills.....	Oil	1,500
Doehler Die Casting Co.....	Oil	600
Doran Maraghrise Bronze Co.....	Oil	150
Fertel Baz Co., Dan W.....	Oil	600
Gair Realty Corp.....	Oil	12,000
Greenpoint Terminal Co.....	Oil	1,500
Griffin Mfg. Co.....	Oil	1,000
Hilo Varnish Co.....	Oil	175
Hudson Brass Works.....	Oil	150
Humboldt Dye Works.....	Oil	50
Ingersoll, Oliver M.....	Oil	100
Lane, C. M. Lifeboat Co.....	Oil	50
Leibmann Brew. Co.....	Oil	24,000
Leviton Mfg. Co.....	Oil	150
Maltine Mfg. Co.....	Oil	350
Moller & Schumann Co.....	Oil	600
Murison Label Carton Co.....	Oil	1,000
Phoenix-Hermetic Co.....	Oil	1,200
Roberts Numbering Mach. Co.....	Oil	50
Sapolin Co.....	Oil	700
Sheldon Foster Co.....	Oil	2,000
S. S. Laundry Co.....	Oil	2,000
United Refrigerator Co.....	Oil	300
Victory Towel Sup. Co.....	Oil	500
York Ice Machinery Corp.....	Oil	100

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Bronx:		
Great Atlantic & Pacific Tea Co.....	Oil	100
Buchanan—Standard Textile Products Co.....	Oil	22,000
Buffalo:		
Atlas Steel Casting Co.....	Oil	1,500
Barcale Mfg. Co.....	Oil	500
King Sewing Machine Co.....	Oil	1,000
[fol. 924]		
National Anilire & Chemical Co.....	Oil	2,500
Pierce Arrow Motor Car Co.....	Oil	6,500
Pratt & Letchworth.....	Oil	500
Rogers Brown Iron Co.....	Oil	1,000
Strong Steel Foundry Co.....	Oil	1,000
U. S. Aluminum Casting Co.....	Oil	1,500
Camillers Cutlery Co.....	Oil	1,400
Corning Glass Works.....	Oil	28,500
Cortland County Fraction Co.....	Oil	15,000
Dansville:		
Blum Shoe Co.....	Elec.	4,000
Jackson Health Resort.....	Elec.	2,400
Owen Publishing Co.....	Elec.	9,500
Power Specialty Co.....	Oil	500
Depew:		
Gould Coupler Co.....	Oil	2,500
Endicott:		
Endicott Forgery & Mfg. Co.....	Oil	6,000
Union Forging Co.....	Oil	750
Elmira Heights—Amer. Bridge Co.....	Oil	6,000
Elmira:		
Elmira Foundry Co.....	Oil	500
Eclipse Machine Co.....	Oil	5,000
Kennedy Valve Mfg. Co.....	Elec.	4,000
Willys Morrow Co.....	Oil	750
E. Hampton:		
Long Island Ice & Coal Corp.....	Oil	250
Westerhoff Hotel.....	Oil	125
Farmingdale—Industructo Glass Corp.....	Oil	200
Farmington—Meadowbrook Hosp.....	Oil	1,500
Fulton—Victoria Paper Mills Co.....	Oil	3,000
Garden City—Doubleday Page & Co.....	Oil	1,750
Geneva—Empire Gas & Elec. Co.....	Natural Gas	175,000
Geneva—Patent Cereals Co.....	Elec.	7,700
Glen Cove—Knickerbocker Ice Co.....	Oil	550
Great Neck—Citizens Water Supply Co.....	Oil	700
Greenport—Town of Greenport Water Co.....	Oil	1,200
Greenport—Sage Brick Co.....	Oil	600
Huntington—New York Water Co.....	Oil	2,400
Hornell—Merrill Silk Co.....	Elec.	4,500
Herkimer—Herkimer Fibre Co.....	Oil	3,000
Haverstraw—West Shore Gbs. Co.....	Oil	450
Haverstraw—Kay Laboratories.....	Oil	1,450
Ilion—Remington Co.....	Oil	3,000
Isllys—Isllys Sanatary Laundry.....	Oil	1,500
Ithaca—Morse Chair Co.....	Oil	3,500
Jamaica—Merkel Inc.....	Oil	2,000
Jamaica—Park Laundry Co.....	Oil	2,500
Jamaica—Queens General Hospital.....	Oil	20,000
Johnson City—Endicott Johnson Co.....	Elec.	70,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Johnson City—The Felters Co.....	Elec.	15,000
LeRoy—Lapps Insulator Co.....	Oil	9,700
LeRoy—Rozerson Cold Storage.....	Elec.	1,800
Lockport—Harrison Radiator Corp.....	Oil	5,000
[fol. 925]		
Lockport—Western Block Co.....	Oil	500
Long Beach—Long Beach Laundry.....	Oil	300
Long Island City:		
Atlantic Macoroni Co.....	Oil	1,500
Proctor & Gamble Co.....	Oil	180,000
Smith, Edw. & Co.....	Oil	500
Long Lake—New York State Elec. & Gas Co....	Oil	400
Manhattan:		
Ansonia Hotel.....	Oil	350
Bowling Green Bldg.....	Oil	1,200
Columbia University.....	Oil	1,750
Equitable Life Ins. Co. Bldg.....	Oil	875
Equitable Office Bldg.....	Oil	3,000
Imperial Hotel.....	Oil	500
Macy, R. H. & Co.....	Oil	1,200
Metropolitan Life Ins. Bldg.....	Oil	3,000
Mt. Sinai Hospital.....	Oil	250
National Biscuit Co.....	Oil	3,000
N. Y. Edison Co.....	Elec.	500,000
New York Times Bldg.....	Oil	700
Runkell Bros., Inc.....	Oil	300
St. Luke's Hospital.....	Oil	200
Singer Bldg.....	Oil	175
United Dressed Beef Co.....	Oil	4,000
Wilson & Co.....	Oil	3,000
Vanderbilt Hotel.....	Oil	600
Central Paper Box Co.....	Oil	700
Mineola—Knickerbocker Ice Co.....	Oil	250
Montauk—Montauk Manor.....	Oil	300
Monticello—Monticello Water Works.....	Oil	700
Mt. Vernon:		
Mt. Vernon General Optical Co.....	Oil	9,000
No. Amer. Dye Corp.....	Oil	3,000
Royal Cleaners & Dyers Co.....	Oil	1,750
Willow Brook Dairy Co.....	Oil	3,000
Mumford—Mumford Paper Mills.....	Elec.	3,800
New York City—(Queens):		
Allied Die Casting Corp.....	Oil	175
B. Altman & Co.....	Oil	5,000
Andrews Lead Co.....	Oil	150
Anheuser-Busch Ice Cream Co.....	Oil	250
Bohacks, H. C. & Co.....	Oil	1,200
Bradley, Wm. & Son.....	Oil	700
Breyer Ice Cream Co.....	Oil	350
Dictograph Products Co.....	Oil	175
E. R. Durkee & Co.....	Oil	1,450
Four Hundred Madison Ave.....	Oil	Undetermined
Thos. Gregory.....	Oil	150
Hotel New Yorker.....	Oil	16,000
A. C. Horn & Co.....	Oil	250
Larger, Ed. Printing Co.....	Oil	700
Le Blood-Schacht Trunk Co.....	Oil	100

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
[fol. 926]		
LeBlond-Schacht Trunk Co.....	Oil	100
Leowers-Gambrinus Brew. Co.....	Oil	3,600
Merit Hosiery Co.....	Oil	175
National Bridge Works.....	Oil	700
N. Y. Edison Co.....	Elec.	500,000
Nichols Copper Co.....	Oil	17,800
Paramet Chemical Corp.....	Oil	175
Patterson-Sargent Co.....	Oil	350
Peerless Glass Co.....	Oil	250
Peil Bros. Brew. Co.....	Oil	3,000
Pittsburgh Plate Glass Co.....	Oil	175
Steel & Tubes, Inc.....	Oil	300
Trazeser, John.....	Oil	600
West Disinfecting Co.....	Oil	700
White Co.....	Oil	600
Whitestone Dye Works.....	Oil	700
Newark—Bloomer Bros. Co.....	Oil	4,000
Northport—Long Island Lighting Co.....	Oil	49,000
Northport—Northport Water Works.....	Oil	700
No. Towanda—Buffalo Bolt Co.....	Oil	4,500
Olean—Acme Glass Co.....	Oil	8,000
Oneida—National Casket Co.....	Elec.	Undetermined
Oswego—Universal Pressing Machine Co.....	Oil	300
Ozone Park—Columbia Wax Works.....	Oil	2,000
Painted Post—Ingersoll Rand Co.....	Oil	15,000
Patchogue—Knickerbocker Ice Co.....	Oil	350
Pearl River—Dexter Folder Co.....	Oil	2,100
Peekskill—Westchester Lighting Co.....	Oil	1,600
Pelham—Knickerbocker Ice Co.....	Oil	3,000
Perry—Robinson Cutlery Co.....	Elec.	1,200
Port Chester—Russell, Burdsall & Ward Bolt & Nut Co.....	Oil	6,000
Rensselaer—F. C. Huyck & Son.....	Oil	3,000
Richmond—American Dork Co.....	Oil	350
Richmond:		
Murals Co., Inc.....	Oil	350
Proctor & Gamble Co.....	Oil	125,000
Rubsain & Hermans.....	Oil	.....
U. S. Gypsum Co.....	Oil	25,000
Rochester—General Ry. Signal Co.....	Oil	2,000
Rochester—F. H. Symington Co.....	Oil	500
Rockville Center—Village of Rockville Center...	Oil	1,450
Rome—Northern New York Utilities.....	Oil	500
Rome—Rome Brass & Copper Co.....	Oil	6,500
Rome—Rome Turney Radiator Co.....	Oil	175
Rome Wire Co.....	Oil	350
Roseton—Jova Brick Works.....	Oil	3,000
Roseton—Roseton Brick Corp.....	Oil	1,750
Salamanca—Union Tanning Co.....	Elec.	500
Saranac Lake.....	Oil	350
Shortsville—Paper Machine Co.....	Elec.	3,000
Sodus—Grasselli Chemical Co.....	Oil	350
Southampton—Edwards Laundry.....	Oil	100
Southampton Ice Co.....	Oil	300
[fol. 927]		
Southampton—Southampton Hospital.....	Oil	500
So. Bethlehem—Callahan Road Improvement Co.....	Oil	1,450

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Spring Valley—S. A. Stevens & Son.....	Oil	250
Syracuse—Holcomb Steel Co.....	Oil	21,000
Syracuse:		
Onondaga Silk Co.....	Oil	350
Prosperity Co.....	Oil	700
Syracuse San-Equip, Inc.....	Oil	600
Syracuse Lighting Co.....	Oil	6,200
Tarrytown—Chevrolet Motor Co.....	Oil	21,000
Utica—Masonic Home.....	Oil	6,500
Utica—Richardson & Boynton.....	Oil	1,400
Victor—Victor Flour Mills.....	Oil	500
Watertown—Northern New York Utilities Corp..	Oil	50
Wellsville—Sinclair Refining Co.....	Natural Gas	45,000
North Carolina:		
Asheville—Carolina Power & Light Co.....	Elec.	20,000
Burnsville—Northwestern Carolina Utilities....	Oil	1,200
Caroleen—Henrietta Mills.....	Elec.	10,000
Charlotte—Highland Park Mfg. Co.....	Elec.	12,000
Charlotte—Southern Public Utilities Co.....	Oil	3,200
Cramerton—Cramerton Mills.....	Elec.	15,000
Durham:		
Durham Hosiery Mills.....	Elec.	10,000
Imperial Tobacco Co.....	Oil	3,100
Watts Hospital.....	Oil	3,000
Edenton—Edenton Cotton Mills.....	Elec.	6,000
Elizabeth City—Foreman Blades Co.....	Oil	1,000
Greensboro—North Carolina Pub. Service Co....	Oil	1,600
Greystone—Raleigh Granite Co.....	Elec.	500
Hickory—Piedmont Utility Co.....	Oil	200
Kannapapolis—Cannon Mills.....	Elec.	45,000
Lincolnton—Lincoln Milling Co.....	Elec.	500
Louisburg Light & Water Co.....	Oil	360
Monroe—Henderson Roller Mill Co.....	Elec.	500
Oxford—Oxford Cotton Mills.....	Elec.	1,000
Red Springs—Red Springs Light Plant.....	Oil	600
Sanford—Southern Milling Co.....	Oil	120
Statesville—Nat'l. Utilities of No. Carolina....	Oil	400
Wake Forest—Royal Cotton Mills.....	Oil	1,200
W. Jefferson—Northwestern Carolina Utilities...	Oil	360
Wilmington—Southport Fisheries.....	Oil	10,000
Winston-Salem—Forsythe Roller Mill Co.....	Elec.	1,000
Winston-Salem—North Carolina Pub. Utilities..	Oil	200
Winston-Salem—So. Side Roller Mills.....	Elec.	1,500
Ohio:		
Ashland—Union Malleable Mfg. Co.....	Oil	250
Findlay—Nat'l. Refining Co.....	Oil	15,000
Forstoria—Seneca Wire & Mfg. Co.....	Oil	1,500
Lima—The Solar Refining Co.....	Oil	90,000
Merriton—Interstate Tissue Co.....	Elec.	6,000
Toledo—Gulf Refining Co.....	Oil	30,000
Toledo—Libbey-Owens Ford Plate Glass Co....	Artificial Gas	70,000
Toledo—Sun Oil Co.....	Oil	30,000
[fol. 928]		
Pennsylvania:		
Allentown—Allentown Rapid Service Co.....	Elec.	4,000
Ambler—Comm. Paint Co.....	Oil	1,000
Auburn—Artistic Knitting Mills.....	Oil	500

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Auburn—Delaware Seamless Tube Co.....	Oil	200
Bridgeport—York Heating & Ventilating Co.....	Oil	150
Columbia—Manor Mfg. Co.....	Oil	500
Conshohocken—Walker Bros.....	Oil	300
Coatesville—Lukens Steel Co.....	Oil	40,000
Frankfort—The Barrett Co.....	Oil	26,000
Larsdale—A. C. Godshall & Co.....	Oil	1,800
Manheim—Hershey Mach. & Fdry. Co.....	Oil	1,000
Morristown—McCarter Iron Works.....	Oil	500
Nazareth—Nazareth Paper Box Co.....	Oil	800
Norristown—Ford & Kendig Co.....	Oil	3,500
Oaks—Campbell Hosiery Co.....	Oil	500
Oaks—Detco Mfg. Co.....	Oil	500
Philadelphia:		
Collins & Aikman.....	Oil	25,000
Cornung Brewery Co.....	Oil	2,000
Delaney & Co.....	Oil	8,000
Depont Co.....	Oil	60,000
Federal Container Co.....	Oil	3,000
Felin & Co., John J.....	Oil	3,000
Ford & Kendig Co.....	Oil	4,000
Gotham Silk Hosiery Co.....	Elec.	500
Hess Bright Mfg. Co.....	Oil	1,200
Hubschumann, H.....	Oil	1,200
Hulton Dyeing Co.....	Oil	1,500
Martin, L. Co.....	Oil	2,500
Moore & White Co.....	Elec.	600
Phila. Storage & Battery Co.....	Elec.	2,500
Morganthaler Bros.....	Elec.	10,000
Mazer Paper Co.....	Oil	5,000
Peter Hernig.....	Oil	500
Phila. Box & Board (Fibre) Co.....	Oil	12,000
Watson, C. B.....	Oil	1,000
Phoenixville:		
Phoenix Iron Co.....	Oil	60,000
Primos:		
Equipment Corp. of America.....	Oil	500
Penna. Lawn Mower Co.....	Oil	500
Ridgeway:		
Ridgeway Light & Power Co.....	Elec.	50,000
Royersford—Diamond Glass Co.....	Oil	2,000
Royersford—Royersford Fdry & Machine Co..	Elec.	1,500
Royersford—Royersford Needle Works.....	Oil	1,000
Titusville—Crew Lewick Co.....	Oil	12,000
York—Helb, Theo. R.....	Elec.	800
York—York Ice & Milk Co.....	Elec.	500
Westfield—Penna.—Eberle Tanning Co.....	Natural Gas	8,000
Wird Gap.....	Elec.	1,500
Rhode Island:		
Albion—Valley Falls Co.....	Elec.	5,000
Anthony—Coventry Co.....	Elec.	2,500
[fol. 929]		
Apponaug:		
Appanaug Co.....	Oil	15,000
Apponaug Print Works.....	Oil	500
Narragansett Cotton Mills.....	Oil	3,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Ashaway:		
Ashaway Line & Twine Co.....	Oil	1,000
Ashton—Lonsdale.....	Elec.	3,000
Auburn—General Fire Ext. Co.....	Oil	3,500
Auburn—Universal Wind Machine.....	Oil	10,000
Berkeley—Berkeley Mills.....	Elec.	3,500
Bristol—Cransted Worsted Mills.....	Oil	2,000
Bristol—National India Rubber Co.....	Oil	8,000
Centerdale—Centerdale Worsted Mills.....	Oil	2,000
Central Falls—Weypoysset Mfg. Co.....	Oil	2,500
Cranston—Imperial Print & Fin. Co.....	Oil	2,500
Darlington—American Elec. Works.....	Oil	20,000
E. Greenwich—Boston Wire Stitcher Co.....	Oil	1,500
E. Greenwich:		
East Greenwich Water Supply Co.....	Elec.	700
Greenwich Bleachery Co.....	Oil	3,000
Greenwich Mills, Elec. 2,000.....	Oil	5,000
Providence Drysalters Co.....	Oil	1,500
Esmond—Esmond Mills, Inc.....	Oil	8,000
Fiskeville—Interlaken Mills.....	Oil	4,500
Forestdale—Branch River Combing Co.....	Oil	4,000
Greystone—Benn Corp., Jos.....	Oil	10,000
Hillsgrove—Elizabeth Mills.....	Oil	1,000
Hillsgrove—R. I. Malleable Iron Works.....	Oil	500
Hope—Hope Co.....	Oil	4,000
Jamestown—Jamestown & Bristol Ferry Co.....	Oil	1,500
Lymanville—Lymanville Co.....	Oil	5,000
Manton—Joslin Mfg. Co.....	Oil	1,000
Manville—Manville Jenkes Co.....	Oil	15,000
Narragansett—Narragansett Elec. St. Co.....	Oil	250,000
No. Grosvenondale—Grosvenondale Co.....	Oil	10,000
Oakland—Mapleville Mill.....	Oil	4,000
Olneyville—Crown Worsted Co.....	Oil	3,000
Olneyville—R. I. Wool Combing Co.....	Oil	2,000
Pawtucket—Acme Finishing Co.....	Oil	5,000
Pawtucket:		
Attleboro Braiding Co.....	Elec.	500
Blackstone Stocking Co.....	Elec.	500
Cadillac Silk Co.....	Oil	1,000
Coats, J. & P.....	Oil	6,000
Collyer Insulated Wire Co.....	Oil	3,000
Comrad Mfg. Co.....	Oil	500
Corning Glass Works, Inc.....	Oil	1,000
Crosby Co., J. D.....	Oil	500
Crown Mfg. Co.....	Oil	3,500
Davis-Jones Insulated Wire Co.....	Oil	500
Davis Mfg. Co., Frank.....	Oil	1,000
Draper Co., J. O.....	Oil	500
Eureka Dyeing & Bleaching Co.....	Oil	1,500
General Cable Co.....	Oil	11,500
[fol. 930]		
Hallowell Co.....	Oil	1,000
Hallowell Worsted Mfg. Co.....	Oil	1,000
Hope Bedding Co.....	Oil	7,000
Ideal Thread Co.....	Elec.	500
Loraine Mfg. Co.....	Oil	1,000
Lumb Knitting Co.....	Oil	1,000
Manville Jenkes Co.....	Oil	5,000
Mars Grand Rug Co.....	Oil	500

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Moore Fabric Co.....	Oil	1,000
New England Machine & Elec. Co.....	Elec.	500
Pawtucket Hosiery Co.....	Elec.	1,000
Phillips Wire Co.....	Oil	500
Potter & Johnson Machine Co.....	Oil	700
Potter Fine Spinners, Inc.....	Oil	1,000
Pressed Metal Co.....	Oil	1,500
Royal Weaving Co.....	Oil	500
Carl Schoen Silk Corp.....	Oil	500
Shannock Narrow Fabric Co.....	Oil	1,000
Union Wadding Co.....	Oil	500
U. S. Knitting Co.....	Oil	1,500
Very Small Mills.....	Oil	10,000
Waypoyssett Mfg. Co.....	Oil	15,000
West End Thread Co.....	Oil	1,000
Woodlawn Finishing Co.....	Oil	1,500
Peacedale—Peacedale Mills.....	Oil	5,000
Phenix—Phenix Lace Mills.....	Elec.	1,500
Phenix—Phenix Mill.....	Elec.	2,500
Phillipsdale—Amer. Electrical Works.....	Oil	500
Phillipsdale:		
Glenlyn Finishing Co.....	Oil	4,000
Rumford Chemical Works.....	Oil	3,000
Rumford Textile Co.....	Oil	2,000
Sayles Finishing Co.....	Oil	15,000
Sunlight Chemical Co.....	Oil	1,000
Wasburn Wire Co.....	Oil	5,000
Providence:		
Wayland Manor.....	Oil	700
Waite Thresher Co.....	Oil	500
Weybosset Pure Food Market.....	Oil	250
Wanskuck.....	Oil	2,000
U. S. Gutta Percha Paint Co.....	Oil	3,500
Universal Color Chemical Co.....	Oil	500
Universal Winding Co.....	Oil	1,000
United Wire & Supply Co.....	Elec.	500
United Braid & Lace Co.....	Elec.	1,000
Union Wadding Co.....	Oil	3,000
Union Hand Laundry.....	Oil	500
Title Guarantee Bldg.....	Oil	300
Turks Head Bldg.....	Oil	1,200
Textile Finishing Co.....	Oil	1,500
T. W. Foster & Co.....	Oil	1,000
Taylor Symonds Co.....	Oil	150
Swiss Cleansing Co.....	Oil	500
[fol. 931]		
Studley Bldg.—Providence.....	Oil	300
Providence:		
Starkweather & Shepley Co.....	Oil	200
Sherwood Block.....	Oil	200
Shepard Co.....	Oil	1,500
St. Joseph Hospital.....	Oil	1,000
St. Peter & Paul Cathedral.....	Oil	1,500
Sayles Finishing Plants.....	Oil	75,000
Reynolds Block.....	Oil	100
Revere Rubber Co.....	Oil	40,000
Rhode Island School of Design.....	Oil	1,500
Rhode Island Catholic Orphan Asylum.....	Oil	200
Rhode Island Tool Co.....	Oil	2,000

PLAINTIFF'S EXHIBIT 34—Continued

	Displaced by	Actual ton- nage lost (Tons)
Rhode Island New Co. Bldgs.....	Oil	150
Rhode Island Insurance Co.....	Oil	500
Rhode Island Yarn Co.....	Oil	1,000
Rhode Island Hospital Trust Bldg.....	Oil	2,000
Providence Lying-in Hospital.....	Oil	1,000
Providence Public Library Bldg.....	Oil	300
Providence Public Market Bldg.....	Oil	300
Providence & Washington Ins. Co.....	Oil	200
Providence Institution for Svgs.....	Oil	200
Providence City Schools Dept.....	Oil	500
Providence Chamber of Commerce.....	Oil	75
Providence Journal.....	Oil	500
Providence Combing Co.....	Oil	1,500
Phenix Bldg.....	Oil	200
Pilgrim Plush Co.....	Oil	1,000
Peoples Savings Bank.....	Oil	150
Paye & Baker Co.....	Oil	300
Paragon Worsted Co.....	Oil	1,500
Paramount Theatre.....	Oil	300
Old Colony Co-op. Bank.....	Oil	300
Ochee Spring Water Co.....	Oil	75
Outlet Co.....	Oil	7,000
Ostby & Barton Co.....	Oil	1,000
Nicholson File Co.....	Oil	3,500
N. England Hosiery Co.....	Elec.	500
N. England Butt Co.....	Oil	500
Nat'l & Providence Mills.....	Oil	2,000
Narragansett Milling Co.....	Oil	1,400
Narragansett Lbr. Co.....	Oil	75,000
Narragansett Hotel.....	Oil	1,000
Narragansett Elec. Light Co.....	Oil	225,000
Morris Plan Co. Bldg.....	Oil	100
Modern Theatre.....	Oil	150
Minden Apts.....	Oil	300
Manufacturers Bldg.....	Oil	3,000
Majestic Theatre.....	Oil	300
Mac Rae, F.....	Oil	200
M. & F. Worsted Mills.....	Oil	2,500
Lymanville Co.....	Oil	5,000
London & Co.....	Oil	500
Leonard-Rootes Co.....	Elec.	500
[fol. 932]		
Loew Estate Bldgs.....	Oil	300
Loews State Theatre.....	Oil	600
Jno. B. Lewis, Inc.....	Oil	3,000
Lapham Bldg.....	Oil	600
Lauderdale Bldgs.....	Oil	1,000
Kresge Bldg.....	Oil	200
Koppleman, Jos. E.....	Oil	5,000
Kinsley Bldg.....	Oil	300
Kenney Mfg. Co.....	Oil	1,000
Kelley Ice Cream Co.....	Elec.	500
Johnson, Oliver & Co.....	Oil	150
International Braid Co.....	Oil	1,000
Industrial Trust Bldg.....	Oil	4,000
Irons & Russell Building.....	Oil	500
Improved Seamless Wire Co.....	Oil	300
Imperial Printing & Finishing Co.....	Elec.	500
Hawarth, Albert.....	Oil	100
Hope Webbing Co.....	Oil	6,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Hope Theatre.....	Oil	150
Hoppin Homestead Bldg.....	Oil	200
Home for Aged Women.....	Oil	150
Home for Aged Men & Couples.....	Oil	300
High Schools.....	Oil	1,500
Henley, Co., James.....	Oil	500
Grosvenordale Company.....	Oil	10,000
Grosvenor Bldg.....	Oil	1,200
Greene, R. L. Co.....	Oil	100
Gorham Mfg. Co.....	Oil	1,500
Glendale Elastic Fabric Co.....	Oil	500
General Fire Ext. Co.....	Oil	5,000
General Baking Co.....	Oil	500
Franklin Process Co.....	Oil	5,000
Franklin Hotel.....	Oil	1,000
Fitzgerald Bldg.....	Oil	150
Fays Theatre.....	Oil	250
Everett & Barren Co.....	Oil	500
Elks Bldg.....	Oil	250
Eagle Mills.....	Oil	3,000
Dutton Co., M. W.....	Oil	500
Dorset Woolen Co.....	Oil	2,500
Doran Bldg.....	Oil	700
Dolbey Ice Cream Co.....	Elec.	500
Daval Rubber Co.....	Elec.	1,500
Crown Worsted Mill.....	Oil	3,000
Crown Hotel.....	Oil	2,000
Conrad Bldg.....	Oil	150
Colonial Knife Co.....	Oil	500
Coated Textile Co.....	Oil	2,000
Citizens Savings Bank.....	Oil	200
City Hall.....	Oil	300
Churchill House.....	Oil	100
Cherry & Webb Co.....	Oil	300
Capitol.....	Oil	150
[fol. 933]		
Calvery Baptist Church.....	Oil	150
Caeser Misch.....	Oil	200
Cady Moving & Storage Co.....	Oil	100
Burrill Bldg.....	Oil	400
Budlong Mfg. Co.....	Elec.	500
Brownell Mach. Co.....	Oil	1,000
Brown University.....	Oil	4,500
Boston Store.....	Oil	1,500
Bodell Bldg.....	Oil	200
Biltmore Hotel.....	Oil	2,000
Beuna Vista Apts.....	Oil	300
Berkander, Geo. F.....	Oil	500
Baird-North Co.....	Oil	200
Amer. Woolen Co.....	Oil	4,000
Amer. Silk Spinning Co.....	Oil	3,000
Amer. Screw Co.....	Oil	2,500
Allen Hotel.....	Oil	150
Albee Theatre.....	Oil	400
River Point—Rapperport Finishing Co.....	Oil	6,000
Rumford—Rumford Chem. Co.....	Oil	5,000
Stillwater—Centerdale Worsted Mills.....	Oil	4,500
Slatersville—Branch River Wool Combing Co.....	Oil	3,000
Saylesville—Springdale Finishing Co.....	Oil	10,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Saylesville—Saylesville Finishing Plants.	Oil	4,500
Valley Falls—Crown Mfg. Co.	Oil	1,500
Valley Falls—Hindley Mfg. Co.	Oil	250
Valley Falls—Standard Nut & Bolt Co.	Oil	2,000
Warren—Consolidated Thread Mills.	Elec.	1,500
Warren—Mt. Hope Mills.	Elec.	3,500
W. Barrington—Collins & Aikman Corp.	Oil	3,000
Westerly—Lorraine Mfg. Co.	Oil	5,000
Westerly—New England Silk Mills.	Oil	1,500
W. Warwick—Pawtuxet Valley Dyeing Co.	Oil	2,500
Woonsocket:		
Amer. Paper Tube Co.	Oil	5,000
Branch River Wool Comb Co.	Oil	3,500
Crown Piece Dye Works.	Oil	1,500
Desurmont Worsted Co.	Oil	7,000
Falls Yarn Mill.	Oil	1,000
Florence Dye Works.	Oil	1,000
French Worsted Mills.	Oil	35,000
Guerin Mills.	Oil	3,500
Manville Jenckes Co.	Oil	10,000
Nyanza Mills.	Oil-Elec	2,000-4,000
Philmont Worsted Co.	Oil	1,000
River Spinning Co.	Oil	1,500
Sydney Worsted Co.	Oil	1,500
Taft Pierce Mfg. Co.	Oil	3,500
Very Small Mills (Prov.)	Oil	10,000
Woonsocket Brush Co.	Elec.	1,000
Woonsocket Dye & Blchy. Co.	Oil	1,000
Woonsocket Falls Mills.	Oil	7,000
[fol. 934]		
Woonsocket Mach. & Press Co.	Oil	500
Woonsocket Napping Machine Co.	Oil	1,000
Woonsocket Spinning Co.	Oil	1,000
South Carolina:		
Anderson—Gas & Utility Co.	Oil	650
Buffalo—Union Buffalo Mills.	Elec.	12,000
Charleston—Southern Ice.	Oil	8,000
Charleston—United Fruit Co.	Oil	12,000
Clinton—Clinton Cotton Mills.	Elec.	10,000
Columbia—So. Cotton Oil Co.	Elec.	60,000
Greenville—Southern Public Utilities.	Oil	150
Greenville—Woodside Cotton Mill.	Elec.	30,000
Hartsville—Hartsville Oil Mill.	Elec.	12,000
Lancaster—Lancaster Cotton Mills.	Elec.	15,000
Rocky Hill—Rocky Hill Gas Co.	Oil	300
South Dakota:		
Belle-Fourche—Utah-Idaho Sugar Co.	Natural Gas	15,000
Rapid City—So. Dak. State Cement Plant.	Natural Gas	20,000
Sioux Falls—John Morrell & Co.	Natural Gas	28,000
Tennessee:		
Memphis:		
Baptist Hospital.	Gas	2,500
Chisca Hotel.	Gas	5,500
Commercial Chemical Co.	Gas	2,500
Gayoso Hotel.	Gas	5,500

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Memphis Steam Laundry	Gas	5,500
Memphis Baking Co.	Gas	3,000
Oakville Sanatorium	Gas	2,000
Oliver—Finnie Co.	Gas	2,500
Peabody Hotel	Gas	9,000
Veteran Hospital	Gas	2,250
West Tenn. State Teachers College	Gas	2,500
Vermont:		
Bristol—Draker Smith & Co.	Elec.	500
Bristol—Vermont Box Co.	Elec.	1,500
Dauby—Whiting Milk Co.	Elec.	1,500
Gilman—Gilman Paper Co.	Elec.	20,000
Hydeville—Hydeville Cons. Slate Works	Elec.	2,000
Ludlow—Town of Ludlow	Oil	2,000
Nutland—Clarendon Marble Co.	Elec.	1,500
Nutland—Eastman Marble Co.	Elec.	1,000
Manchester Marble Co.	Elec.	1,000
Poultney—Auld & Conger Co.	Elec.	1,000
Poultney—General Slate Co.	Elec.	1,500
Poultney—Griffiths Slate Co.	Elec.	500
Poultney:		
Manhattan Shirt Co.	Elec.	1,350
N. Y. Cons. Slate Co.	Elec.	1,000
Owens Slate Co.	Elec.	500
United Slate Co.	Elec.	500
Williams Machine Co.	Elec.	250
St. Johns—Carrie Maple Sugar Co.	Wood	3,000
Springfield:		
Bryant Company	Oil	1,000
[fol. 935]		
Springfield:		
Jones & Lamson Machine Co.	Oil	1,000
Lovejoy Tool Co.	Oil	500
White River Junction—Grafton Co. Elec. Co.	Elec.	1,500
Winooski—Green Mt. Power Co.	Oil	3,500
Winooski—Richard Mfg. Co.	Oil	500
Virginia:		
Alexandria—Mutual Ice Co.	Elec.	600
Berryville—Robinson Ice & Cold Storage Corp. ...	Elec.	600
Eieldvale—Carolina Cotton & Woolen Mills.	Elec.	8,000
Harrisonburg—Shenandoah Mfg. Co.	Elec.	300
Norfolk—Industries, Towboats, Etc.	Oil	100,000
Norfolk—Wood Towing Co.	Oil	8,000
Winchester—Robinson Ice & Cold Storage Corp. .	Elec.	1,500
West Virginia:		
Clarksburg:		
Adamston Flat Glass Co.	Nat'l Gas	32,000
Flat Glass Spec. Co.	Gas	10,000
Hazel Atlas Glass Co.	Nat'l Gas	Undetermined
Pittsburgh Plate Glass Co.	Nat'l Gas	40,000
Rolland Glass Co.	Nat'l Gas	20,000
Charlestown—Robinson Ice & C. S. Co.	Elec.	1,800
Crow Summit—Eureka Stone Co.	Gas	350
Fairmont—Fairmont Aluminum Co.	Gas	2,000
Fairmont—Monongah Glass Co.	Gas	20,000
Hastings—Hope National Gas Co.	Gas	60,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Hope—Hope National Gas Co.....	Nat'l Gas	Undetermined
Hoult—Hope National Gas Co.....	Gas	10,000
Moorefield—Union Tanning Co.....	Wood	1,500
Moundsville—U. S. Stamping Co.....	Gas	12,000
New Martinsville—New Martinsville Glass Mfg. Co.	Nat'l Gas	5,000
Paden City—Paden City Glass Mfg. Co.....	Gas	30,000
Paden City—Paden City Pottery Co.....	Gas	1,200
Paden City—Paul Wissmach.....	Gas	20,000
Parkersburg Iron & Steel Co.....	Oil & Gas	7,000
Sistersville—Scoby Sheet Glass Co.....	Gas	18,000
St. Marys—Ohio Valley Refining Co.....	Gas	10,000

[fol. 936]

Supplement No. 1 to

Statement Showing Some Examples of Coal Tonnage Lost
to Competing Forms of Fuels or Energy

Arizona, Colorado, New Mexico and Texas:

The Swastika Fuel Company, Raton, New Mexico, estimates 50,000 tons annually lost through retail coal trade account intrusion of gas and low price fuel oil, and 500,000 tons annually of railway fuel tonnage account railroads using fuel oil.

Arizona, Lower California and Mexico:

Coke tonnage lost to natural gas equivalent to 450,000 tons of coal annually.

	Displaced by	Actual Tonnage lost (Tons)
Colorado:		
Fort Lyon—Veterans Bureau Hospital...	Natural Gas	9,000
La Junta—Mennonite Sanatorium.....	Natural Gas	500
La Junta—Santa Fe Railway Power Plant	Natural Gas	25,000
Lamar—Municipal Power Plant.....	Natural Gas	4,500
Rocky Ford—American Beet Sugar Co..	Natural Gas	15,000
Kentucky:		
Louisville—Grocers Ice Company.....	Hydro-Elec.	7,800
Louisville—Louisville Water Company...	Hydro-Elec.	18,000
Louisville—Merchants Ice & Cold Stor. Co.....	Hydro-Elec.	26,000
Newport—Andrews Steel Company.....	Natural Gas	22,500
	Oil	2,500
New Jersey:		
Camden—Camden County Institutions..	Oil	11,000
New Mexico:		
Albuquerque—Electric Plant.....	Natural Gas	3,000
Clovis—Electric Power Plant.....	Natural Gas	6,000
Clovis—Railways Ice Company.....	Natural Gas	2,500
Deming—Deming Ice & Electric Co.....	Natural Gas	7,500
Rosewell—Rosewell Gas & Electric Com- pany.....	Natural Gas	6,000
Rosewell—New Mexico Military Institute	Natural Gas	6,000
Santa Fe—Electric & Power Plant.....	Natural Gas	6,000
Tucumcari—Power Plant.....	Fuel Oil	6,000
Numerous small plants.....	Natural Gas	1,000
New York:		
Binghamton—Associated Gas & Elec. Co.	Natural Gas	50,000/60,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Texas:		
Amarillo—Light, Power & Street Rwy. Co.	Natural Gas	10,000
Dalhart—Dalhart Ice & Elec. Co.....	Fuel Oil	6,000
El Paso—Beaumont Hospital (U. S. Army)	Natural Gas	2,500
El Paso—El Paso Brick Company.....	Nat. Gas & Oil	10,000
International Brick Company		
Consumers Ice Company		
El Paso Ice & Refrigerator Co		
Numerous cotton gins and oil mills in West Texas.....	Nat. Gas & Oil	5,000
El Paso—Southwestern Portland Cement Co	Natural Gas	50,000
Fort Bliss—U. S. Army Post.....	Natural Gas	6,000
Plainview, Lubbock & Canyon—Elec. Plants.....	Natural Gas	5,000
[fol. 937]		
Fort Dodge—Certainteed Products Co...	Natural Gas	10,000
Fort Dodge—Northwestern Mfg. Co.....	Natural Gas	16,500
Fort Dodge—U. S. Gypsum Company...	Natural Gas	40,000
Fort Dodge—Universal Gypsum & Lime Co.....	Natural Gas	10,000
Fort Dodge—Wasson Plaster Company..	Natural Gas	3,000
Mason City—Hanford Hotel.....	Natural Gas	1,250
Mason City—Jacob E. Docker & Sons...	Natural Gas	18,000
Mason City—Lehigh Portland Cement Co.	Natural Gas	112,000
Mason City—Mason City Brick & Tile Co.	Natural Gas	65,000
Mason City—N. W. States Port. Cement Co.....	Natural Gas	160,000
Mason City—Peoples Gas & Electric Co.....	Natural Gas	35,000
Muscatine—H. J. Heinz Company.....	Natural Gas	7,000
Muscatine—Iowa Electric Company.....	Natural Gas	2,100
Muscatine—Public Schools.....	Natural Gas	2,100
Red Oak—Iowa Nebraska Light & Power Co.....	Natural Gas	2,000
Red Oak—Small Municipal Plants.....	Oil	15,000
Shenandoah—Iowa Nebraska Light & Power Co.....	Natural Gas	2,000
Sioux City—Armour & Company.....	Natural Gas	35,500
Sioux City—Cudahy Packing Company..	Natural Gas	28,000
Sioux City—Hanford Produce Company.	Natural Gas	14,000
Sioux City—Sioux City Brick & Tile Co.	Natural Gas	2,000
Sioux City—Sioux City Gas & Electric Co.	Natural Gas	82,000
Sioux City—Swift & Company.....	Natural Gas	22,500
Kentucky:		
Danville—Anderson & Spillman.....	Hydro-Elect.	600
Maryland:		
Baltimore—Davis Paint Company.....	Oil	600
Baltimore—National Enameling & Stamp- ing Co.....	Oil	Undetermined
Baltimore—A. Gross Candle Co.....	Oil	Undetermined
Baltimore—U. S. Industrial Alcohol Company.....	Oil	100,000
Michigan:		
Monroe—Amendt Milling Company.....	Oil	2,500

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Mississippi:		
Bay Saint Louis—Bay Saint Louis Ice & Bottling Works.....	Electric	1,000
Brookhaven—Brookhaven Pressed Brick & Mfg. Co.....	Natural Gas	4,000
Clarksdale—Planters Manufacturing Co.	Natural Gas	7,500
Greenville—International Vegetable Oil Co.....	Natural Gas	3,500
Port Gibson—Port Gibson Oil Works....	Elec. Gen. by	6,000
Starkville—Mississippi A. & M. College.	Natural Gas	8,200
Starkville—J. W. Sanders Cotton Mills..	Natural Gas	2,250
Missouri:		
St. Joseph—U. S. Gypsum Co.....	Natural Gas	Undetermined
St. Joseph—Jersey Cereal Company....	Natural Gas	Undetermined
New Jersey:		
Bayway—Standard Oil Co. of New Jersey	Oil	100,000
Hillside—Bristol Myers Co.....	Oil	4,000
Jersey City—Cudahy Packing Company.	Oil	4,200
Manville—Johns Manville Company....	Oil	40,000
Newark—Clark Thread Company.....	Oil	5,000
New Brunswick—Carrier Engineering Corporation.....	Oil	1,000
[fol. 938]		
New York:		
Bass—Bass Electric Company.....	Natural Gas	4,000
Binghamton—Associated Gas & Electric Co.....	Natural Gas	50,000/60,000
Endicott—Endicott Johnson Company...	Oil	2,000
Geneva—Associated Gas & Electric Company.....	Natural Gas	120,000
Johnson City—Associated Gas & Electric Co.....	Natural Gas	180,000
Syracuse—Niagara Hudson Company...	Natural Gas	90,000
Syracuse—Semet Solvay Company.....	Natural Gas	285,000
Troy—Burden Iron Company.....	Oil	5,000
Wellville—St. Clair Refining Company...	Natural Gas	50,000
Whitestone—Long Island, Kent Stores, Inc.....	Oil	1,000
Ohio:		
Bainbridge—Bainbridge Light & Power Company.....	Oil	1,400
Charden—General Electric Company....	Natural Gas	15,000
Niles—General Electric Company.....	Natural Gas	12,000
Oklahoma:		
Harrah—Oklahoma Gas & Electric Co...	Oil & Nat. Gas	45,000
Pennsylvania:		
Austin—Bayless Pulp & Paper Co.....	Natural Gas	10,000
Galeton—City of Galeton.....		1,250
Elkland—Elkland Leather Co.....	Natural Gas	3,500
Genesee—Genesee Chemical Co.....	Natural Gas	3,000
Philadelphia—Allman Nurseries.....	Oil	200
Philadelphia—A. Theodore Abbot.....	Electric	2,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Philadelphia—Yale & Towne Mfg. Co...	Electric	2,000
Westfield—Eberle Tanning Co.....	Natural Gas	5,000
Westfield—Renken Dairy Co.....	Natural Gas	1,000
Rhode Island:		
Bradford—Bradford Dyeing Association.	Oil	7,500
South Carolina:		
Greenville—Brandon Corporation.....	Electric	15,000/18,000
Pelzer—Pelzer Manufacturing Co.....	Electric	18,000
Electrification of the Pennsylvania Railroad		Undetermined

[fol. 939]

Supplement No. 2 to

Statement Showing Some Examples of Coal Tonnage Lost to Competing Forms
of Fuels or Energy

(Very recent displacements)

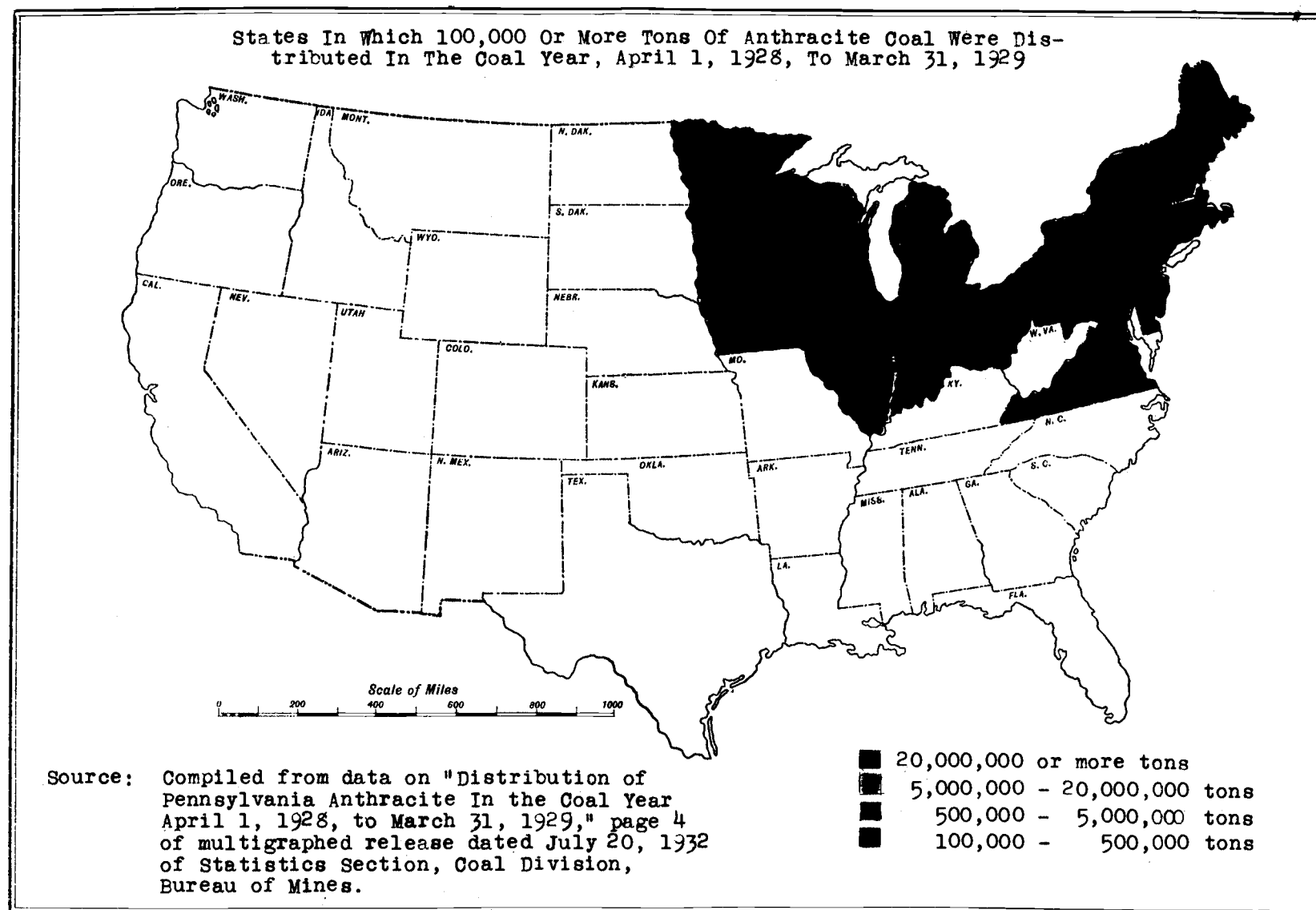
State and City	Displaced by	Actual tonnage lost (tons)
Alabama:		
Mobile—Mobile Paper Mill.....	Hydro-Elec.	6,000
Tuskegee—U. S. Veterans Facility.....	Natural Gas	6,500
Connecticut:		
Hartford—Hartford Electric Light Co...	Oil	125,000
Delaware:		
Wilmington—National Vulcanized Fiber Co.....	Oil	12,000
Georgia:		
Atlanta—Federal Penitentiary.....	Natural Gas	16,000
Columbus—Fort Benning.....	Natural Gas	6,000
Columbus—Muscogee Mfg. Co.....	Natural Gas	6,000
Savannah—Merchants & Miners Trans. Co. (bunkers).....	Oil	S e v e r a l t h o u s a n d
Illinois:		
Chicago—Republic Steel Co.....	Natural Gas	31,000
Chicago—Mongtomery Ward & Company	Oil	5,500
Chicago—Swift & Company.....	Natural Gas	200,000
East St. Louis—Aluminum Ore Company	Natural Gas	110,000
Kankakee—Bear Brand Hosiery Co.....		15,000
Ottawa—Chicago Retort & Fire Brick Co.	Natural Gas	5,000/10,000
Ottawa—Libbey Owens Ford Company.	Natural Gas	70,000
Marseilles—Certainteed Products Co....	Natural Gas	25,000
Chicago Heights—Columbia Tool Steel Co.....	Natural Gas	2,000
Ottawa—Federal Plate Glass Co.....	Natural Gas	100,000
Streator—Owens Illinois Glass Co.....	Natural Gas	75,000
Iowa:		
Atlantic—Iowa Electric Company.....	Natural Gas	1,500
Britt—Central States Electric Co.....	Natural Gas	1,200
Cedar Rapids—Montrose Hotel.....	Natural Gas	15,000
Cedar Rapids—Penick & Ford.....	Natural Gas	120,000

PLAINTIFF'S EXHIBIT 32—Continued

	Displaced by	Actual ton- nage lost (Tons)
Cedar Rapids—Sinclair Packing Co.	Natural Gas	30,000
Cedar Rapids—T. M. Sinclair, Ltd.	Natural Gas	60,000
Cedar Rapids—Three Minute Cereal Co.	Natural Gas	10,000
Council Bluffs—Council Bluffs Gas Co. . .	Natural Gas	4,000
Council Bluffs—Jenny Edmiston Hos- pital.	Natural Gas	3,200
Council Bluffs—Iowa School for the Deaf.	Natural Gas	3,600
Council Bluffs—Lainson, Florist.	Natural Gas	3,750
Council Bluffs—Sisters of Mercy.	Natural Gas	1,500
Council Bluffs—J. F. Wilcox & Son.	Natural Gas	9,000
Davenport—American Service Company.	Natural Gas	3,500
Davenport—Dewey Portland Cement Company.	Natural Gas	150,000
Davenport—Kohrs Packing Company. . .	Natural Gas	5,000
Davenport—Western Flour Mills Co. . .	Natural Gas	5,000
Davenport—United Light & Ry. Co.	Natural Gas	200,000
Des Moines—Des Moines Gas Company	Natural Gas	6,000
Eagle Grove—Iowa Public Service Co. . .	Natural Gas	7,500

(Here follows 1 map, 1 folio 940.)

Plaintiff's Ex. 33



[fol. 941]

PLAINTIFF'S EXHIBIT 34

M. C. D.

77

No. 12

Distribution of Pennsylvania Anthracite in the Coal Year April 1, 1928,
to March 31, 1929^a

(Includes both steam and domestic sizes, but not colliery fuel)

Distribution ^o	Quantity in net tons	Percent of total
New England States:		
Maine.....	479,402	0.7
New Hampshire.....	662,541	1.0
Vermont.....	363,444	0.5
Massachusetts.....	5,031,715	7.4
Rhode Island.....	550,169	0.8
Connecticut.....	1,974,004	2.9
	<u>9,061,275</u>	<u>13.3</u>
	=====	=====
Middle Atlantic States:		
New York.....	22,536,054	33.1
New Jersey.....	9,877,510	14.5
Pennsylvania.....	14,298,666	21.0
Delaware.....	293,691	0.4
Maryland.....	1,020,499	1.5
District of Columbia.....	475,148	0.7
	<u>48,501,568</u>	<u>71.2</u>
	=====	=====
North Central States:		
Ohio.....	294,673	0.4
Michigan.....	648,408	1.0
Indiana.....	136,565	0.2
Illinois.....	1,008,533	1.5
	<u>2,088,179</u>	<u>3.1</u>
	=====	=====
Missouri Val. States:		
Missouri.....	18,494	(c)
Iowa.....	100,381	0.1
Nebraska.....	35,386	0.1
Kansas.....	2,036	(c)
	<u>156,297</u>	<u>0.2</u>
	=====	=====
Lake Dock States:		
Wisconsin.....	941,422	1.4
Minnesota.....	465,312	0.6
North Dakota.....	56,933	0.1
South Dakota.....	77,449	0.1
	<u>1,541,116</u>	<u>2.2</u>
	=====	=====
Southeastern States:		
West Virginia.....	9,738	(c)
Virginia.....	142,479	0.2
North Carolina.....	8,643	(c)
South Carolina.....	14,889	(c)
Georgia.....	6,281	(c)
Florida.....	6,536	(c)
Kentucky.....	31	(c)
	<u>188,597</u>	<u>0.3</u>
	=====	=====

PLAINTIFF'S EXHIBIT 34—Continued

Distribution	Quantity in net tons	Percent of total
Western States:		
Wyoming.....	44	(c)
Montana.....	312	(c)
Washington.....	45	(c)
	<u>401</u>	<u>(c)</u>
Total less R. R. fuel.....	61,537,433	90.3
Used for R. R. fuel.....	3,177,885	4.7
	<u>64,715,318</u>	<u>95.0</u>
Exports:		
Canada.....	^d 3,396,253	5.0
All other countries.....	^d 34,135	(c)
	<u>3,430,388</u>	<u>5.0</u>
Total Distribution.....	68,145,706	100.0

(a) The above figures do not include colliery fuel. The colliery fuel in 1928-1929 amounted to about 5,860,000 net tons, which added to the total sold makes a grand total of 74,005,706. (b) Based on figures collected by the Anthracite Bureau of Information, supplemented by data from the anthracite originating railroads, the lake dock operators, anthracite dredge operators, and manufacturers of fuel briquets. Totals include dredge coal, and culm made into fuel briquets. (c) Less than 0.05 per cent. (d) Customs records as reported by the Bureau of Foreign and Domestic Commerce.

Distribution of Pennsylvania Anthracite Coal from the Upper Lake Docks,
Calendar Year, 1929, in Net Tons^a

(As reported by the dock operators. Note that the dock shipments are also included in the preceding table.)

	Lake Superior docks	Lake Michigan (West Bank) docks	Lake Docks (All other)	Total
Wisconsin.....	59,391	629,491	...	688,882
Minnesota.....	372,055	87,728	...	459,783
North Dakota.....	40,488	11,301	...	51,789
South Dakota.....	56,187	17,054	...	73,241
Illinois.....	651	16,080	...	16,731
Michigan.....	32,660	7,019	765	40,444
Iowa.....	8,424	3,782	...	12,206
Nebraska.....	4,865	581	...	5,446
	<u>574,721</u>	<u>773,036</u>	<u>765</u>	<u>1,348,522</u>
Railroad fuel.....	3,432	178	...	3,610
Exports to Canada ^b	3,453	.....	...	3,453
Total.....	581,606	773,214	765	1,355,585

(a) Anthracite loadings at Lake Erie ports, according to Ore and Coal Exchange, amounted to 1,321,328 net tons. The slight discrepancy may be accounted for by changes in stocks. (b) Exports to Canada by rail from Lake Superior docks.

By F. G. Tryon and W. H. Young,
Statistics Section, Coal Division.
C. P. White, Head, Coal Division.

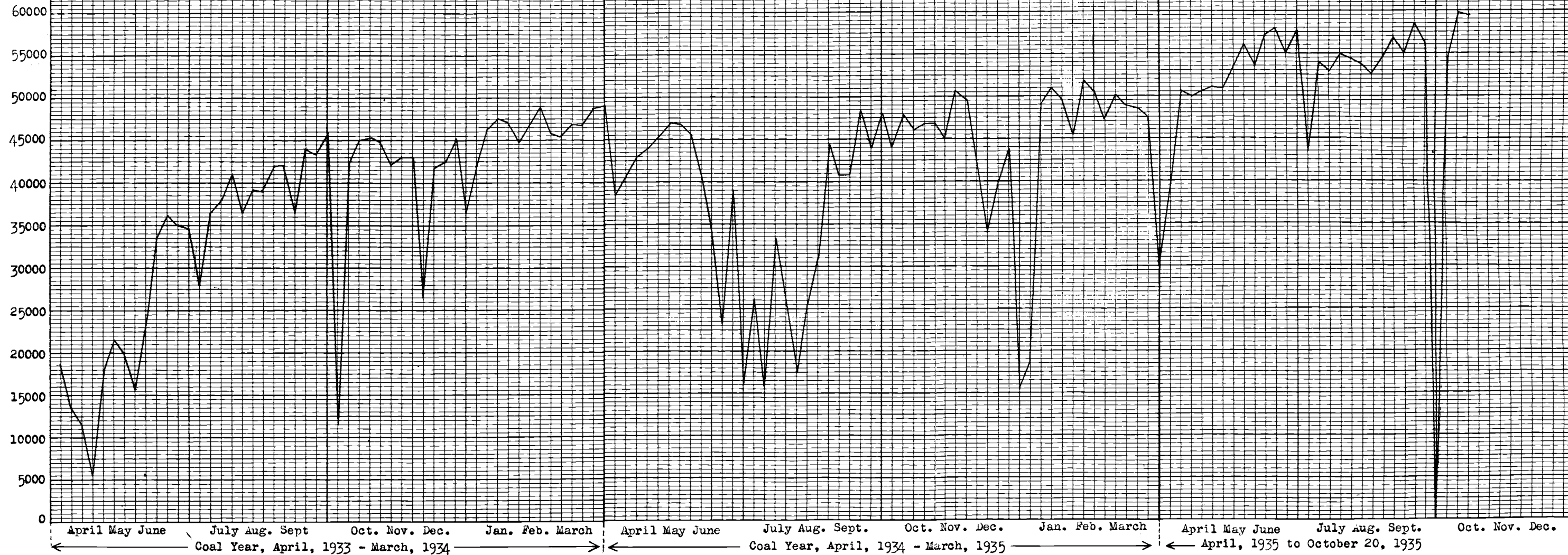
July 20, 1932.

(Here follow 4 maps, folios 942-945.)

SCALE:
Net Tons

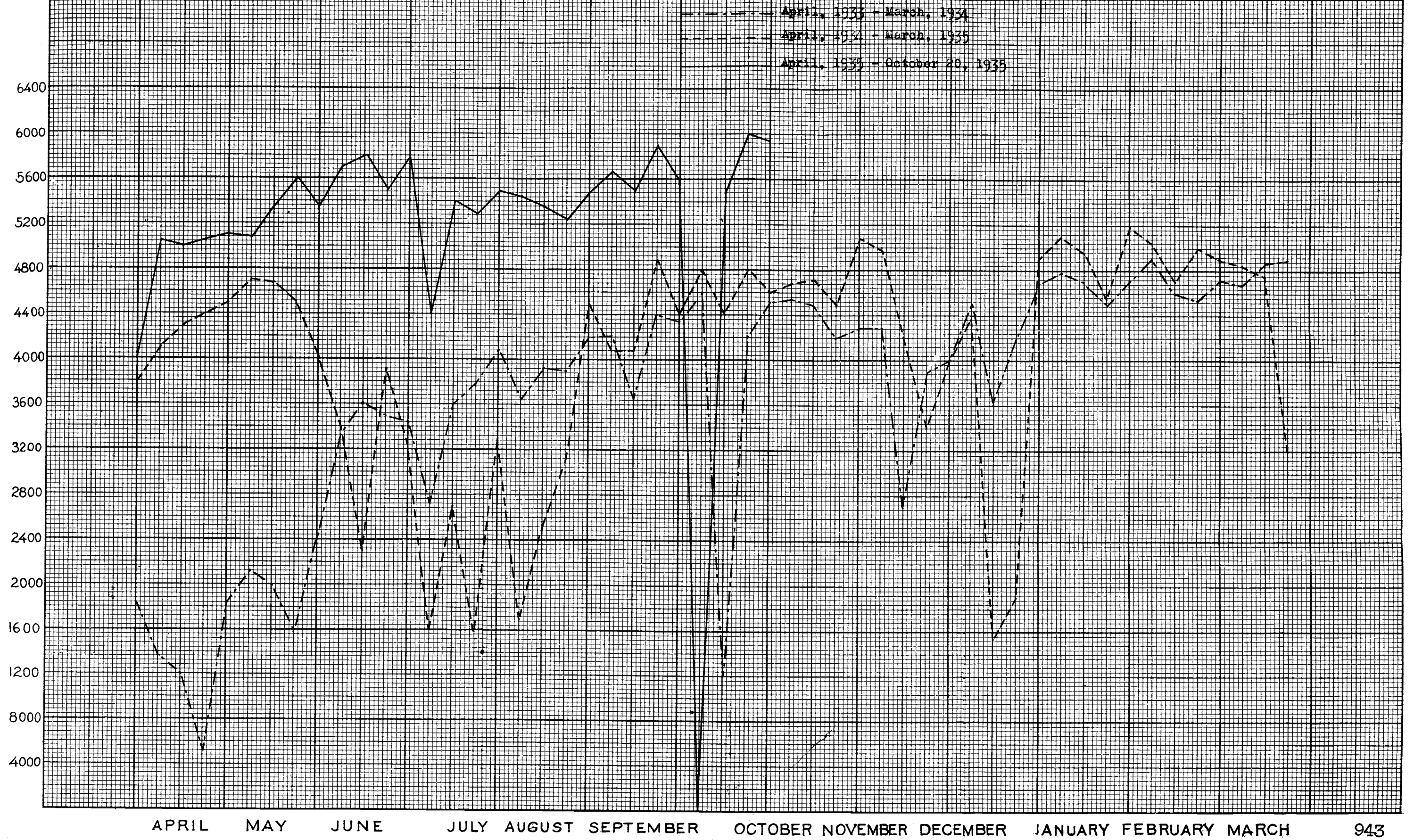
Week by Week Production Record, Carter Coal Company Mines - Coal Year Basis

April, 1933 - October 20, 1935

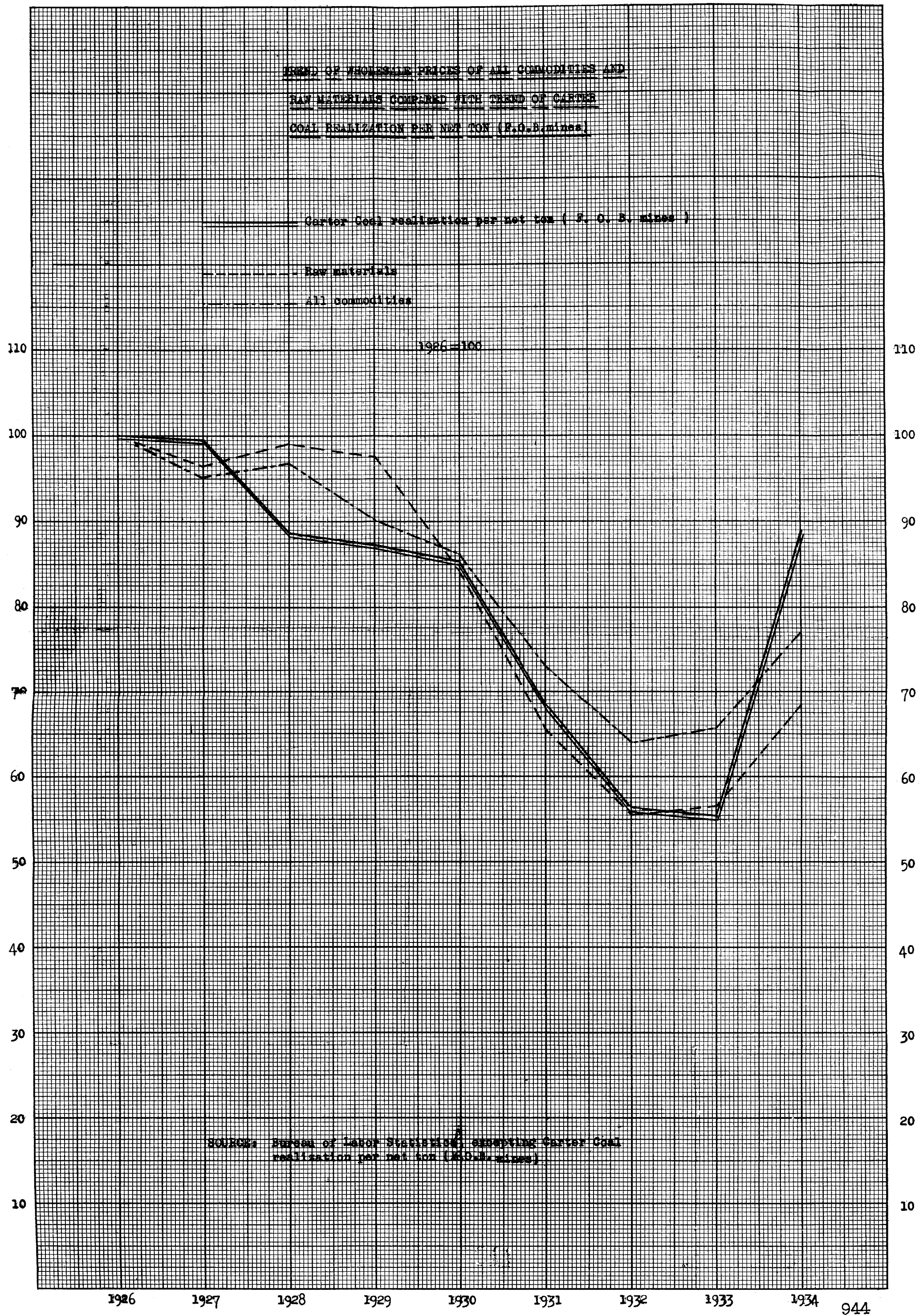


Week by Week Production Record, Carter Coal Company Mines, Coal Year Basis

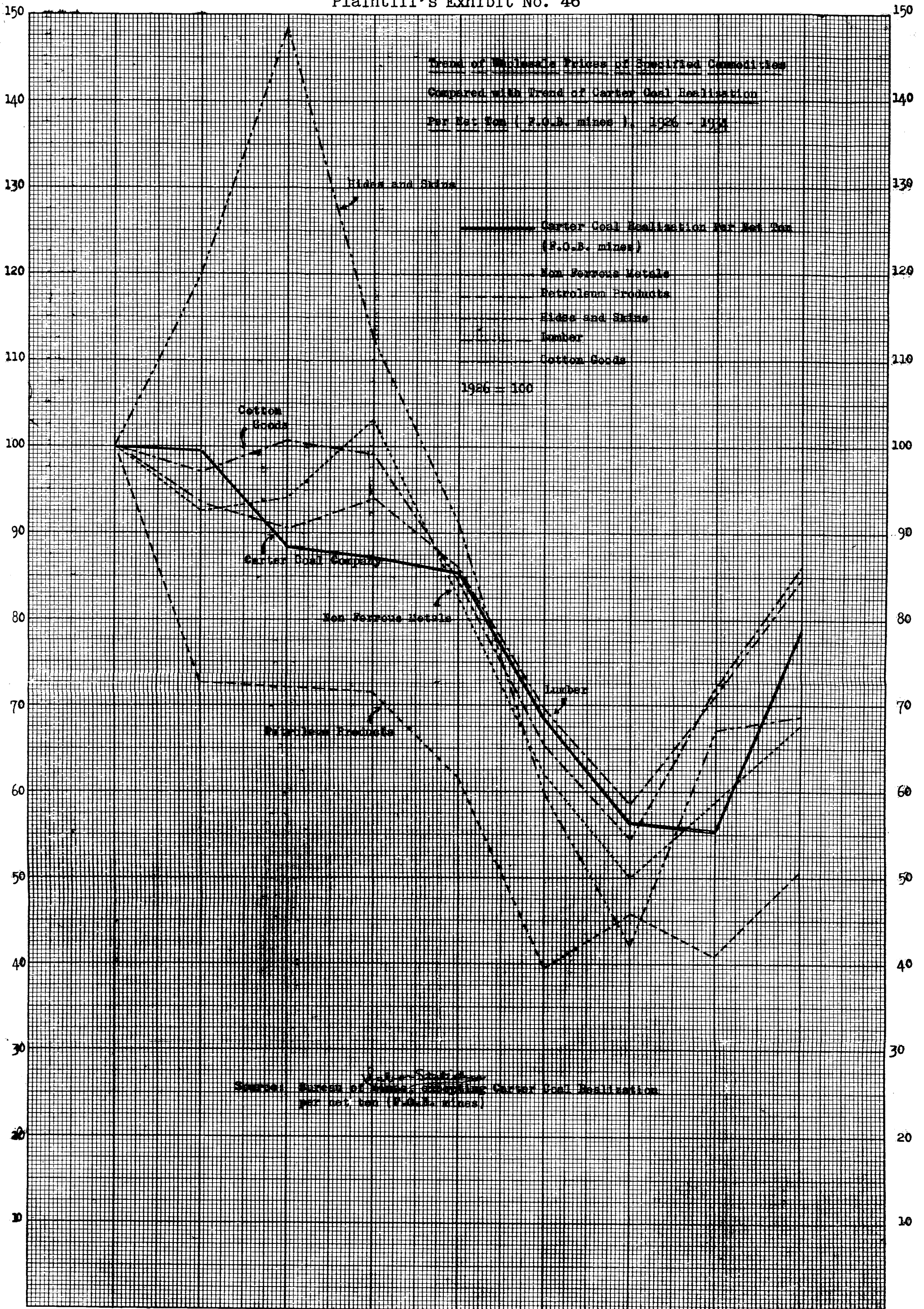
April, 1933 - October 20, 1935



866B



Plaintiff's Exhibit No. 46



[fol. 946]

PLAINTIFF'S EXHIBIT 47

Index Number of Wholesale Prices of Specified Commodities and of Carter Coal Realization Per Net Ton (F. O. B. Mines), 1926-1934

1926 = 100

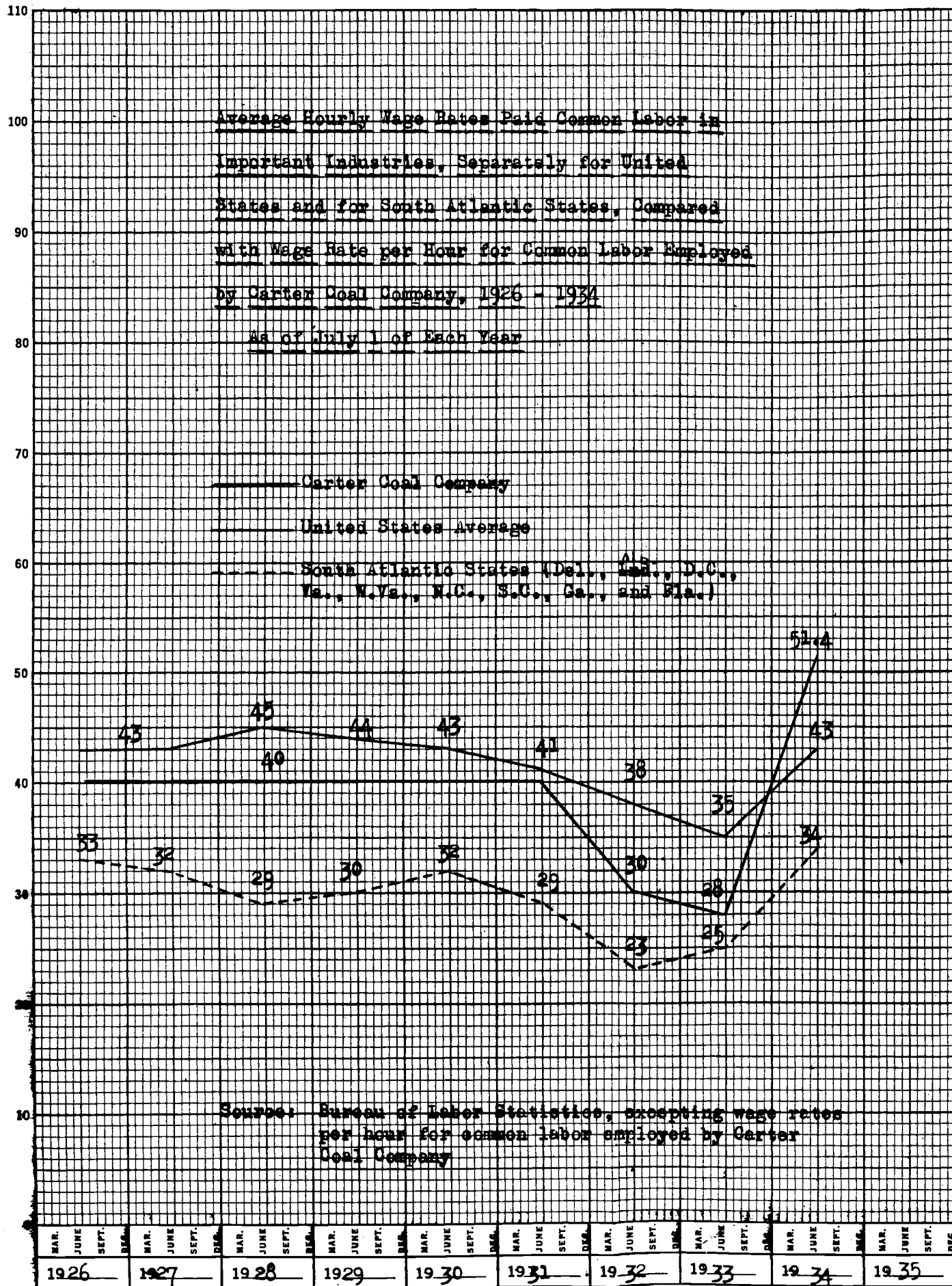
Wholesale Prices

	Nonferrous Metals	Petroleum Products	Lumber	Cotton Goods	Hides and Skins	Raw Materials	All Commodities	Carter Coal Realization Per Net Ton (F. O. B. Mines)
1926.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1927.....	92.8	72.7	93.1	97.1	120.3	96.5	95.4	99.5
1928.....	94.0	72.0	90.5	100.4	148.6	99.1	96.7	88.9
1929.....	106.1	71.3	93.8	98.8	112.7	97.5	95.3	87.4
1930.....	82.4	61.5	85.8	84.7	91.0	84.3	86.4	85.5
1931.....	61.9	39.5	69.5	66.1	60.2	65.6	73.0	68.6
1932.....	49.8	45.4	58.5	54.0	42.1	55.1	64.8	56.5
1933.....	59.6	41.0	70.7	71.2	67.1	56.5	65.9	55.6
1934.....	67.7	50.5	84.5	86.5	68.6	68.6	74.9	88.9

Source: Bureau of Labor Statistics, United States Department of Labor.

(Here follows 1 map, folio 947.)

Plaintiff's Exhibit No. 48



[fol. 948]

PLAINTIFF'S EXHIBIT 49

Average Hourly Entrance Wage Rates for Adult Male Common Labor
July of Each Year, 1926 to 1934

Industry	Average hourly entrance rates (in cents) in—								
	1926	1927	1928	1929	1930	1931	1932	1933	1934
Automobile.....	46.1	46.3	57.2	49.9	48.2	57.7	62.0	46.5	54.9
Brick, tile, and terra cotta.....	40.7	42.2	39.4	37.8	38.0	33.9	28.9	24.7	36.9
Cement.....	40.1	39.2	37.2	37.8	37.9	37.2	30.6	29.5	44.7
Electrical machinery, apparatus, and supplies.....	43.1	44.2	46.0	45.9	44.8	42.9	39.6	37.1	43.5
Foundry and machine-shop products.....	37.1	37.8	38.4	39.8	39.0	38.2	34.8	31.8	40.1
Iron and steel.....	42.7	43.2	42.5	42.5	42.1	41.8	31.8	33.6	43.2
Leather.....	40.9	41.4	42.3	42.2	41.9	39.1	32.9	31.6	39.3
Lumber (sawmills).....	33.6	32.2	31.7	32.0	31.6	27.7	21.5	20.8	33.1
Paper and pulp.....	42.8	42.5	44.3	44.0	43.2	37.2	35.6	32.6	40.3
Petroleum refining.....	47.9	44.0	45.4	45.7	48.1	47.5	42.1	40.7	52.6
Slaughtering and meat packing.....	41.5	41.7	42.2	42.0	41.8	41.7	34.6	32.3	43.9
Public utilities.....	42.0	39.8	42.9	42.8	44.6	44.6	41.5	38.7	41.8
General contracting.....	47.1	48.2	47.4	48.3	47.0	42.6	39.9	38.3	45.5
All industries.....	42.8	42.6	44.9	43.7	43.1	41.2	38.1	35.0	43.0
All industries except general contracting.....	40.9	40.4	44.1	42.1	41.6	40.7	37.6	34.2	42.3
New England.....	47.1	46.7	48.2	48.0	49.5	45.4	40.4	37.1	43.3
Middle Atlantic.....	45.1	47.2	47.8	46.4	46.1	45.1	40.4	36.7	45.2
East North Central.....	48.0	46.7	51.6	48.4	47.0	45.2	45.0	38.9	47.0
West North Central.....	40.1	40.6	41.3	41.8	40.6	42.9	35.8	34.5	43.2
South Atlantic.....	32.8	31.5	29.4	30.2	32.1	28.9	23.4	25.3	33.6
East South Central.....	27.6	27.0	26.0	26.8	26.7	25.2	21.0	25.7	34.1
West South Central.....	32.5	31.8	33.8	35.6	33.0	29.9	23.7	23.4	32.7
Mountain.....	44.4	44.4	44.0	44.9	45.2	43.1	39.3	42.3	46.4
Pacific.....	45.9	46.5	46.9	47.9	47.6	43.5	40.2	38.0	46.9

Source: Bureau of Labor Statistics.

Table 333, page 303, Statistical Abstract, 1934, Except 1934 Figures Which are from Serial No. R. 196 (Dec. 1934 Issue of Monthly Labor Review).

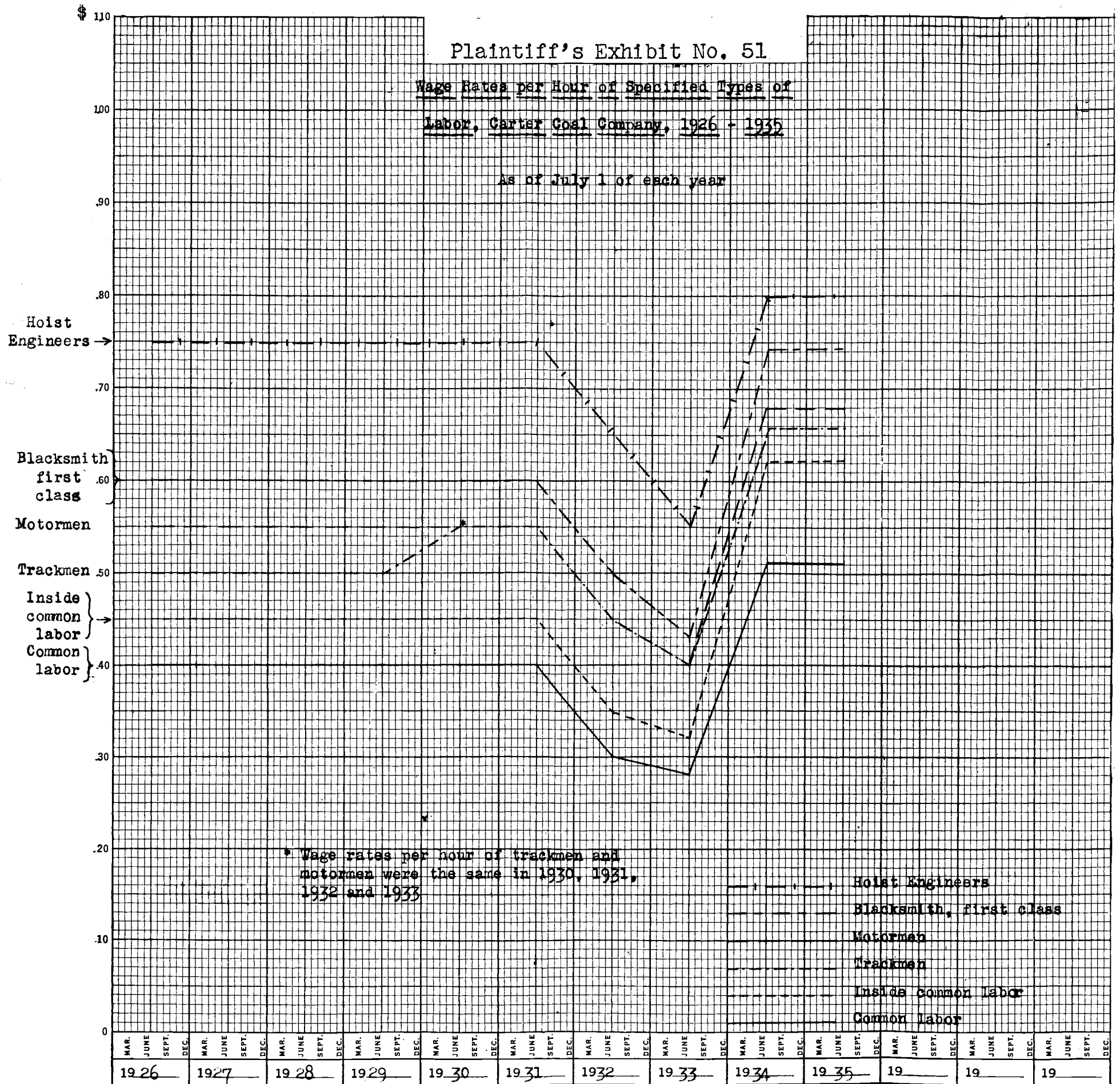
[fol. 949]

PLAINTIFF'S EXHIBIT 50

Wage Rates Per Hour of Specified Types of Labor, Carter Coal Company, 1926-1935 As of July 1 of Each Year

	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935
Common labor.....	\$.40	\$.40	\$.40	\$.40	\$.40	\$.40	\$.30	\$.28	\$.514	\$.514
Inside common labor.....	.45	.45	.45	.45	.45	.45	.35	.32	.623	.623
Trackmen.....	.50	.50	.50	.50	.55	.55	.45	.40	.657	.657
Motormen.....	.55	.55	.55	.55	.55	.55	.45	.40	.68	.68
Blacksmith, first class.....	.60	.60	.60	.60	.60	.60	.50	.43	.743	.743
Hoist engineers.....	.75	.75	.75	.75	.75	.75	.65	.55	.80	.80

(Here follow 1 drawing, folio 950; 1 table, folio 951; 1 map, folio 952.)



CARTER COAL COMPANY

STATEMENT OF PRODUCTION AND REALIZATION BY STATES IN WHICH MINES ARE LOCATED AND
OF OPERATING EXPENSES, INSURANCE, TAXES, ETC., BY YEARS, 1923 TO 1934 INCLUSIVE

Particulars	OPERATIONS UNDER THE CONSOLIDATION COAL COMPANY MANAGEMENT										OPERATIONS UNDER CARTER MANAGEMENT		OPERATIONS UNDER CARTER MANAGEMENT	
	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	2½ months Ended March 15, 1933	9½ months Ended December 31, 1933	1933 Combined	1934
(a) PRODUCTION IN NET TONS:														
West Virginia	498,744	772,449	1,220,285	1,575,801	1,773,223	1,872,492	1,963,771	1,921,215	1,668,744	807,625	174,008	1,344,917	1,518,925	2,126,046
Virginia	123,714	40,331	35,610	20,513	--	--	--	--	--	--	--	--	--	--
Kentucky	63,446	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	685,904	812,780	1,255,899	1,596,314	1,773,223	1,872,492	1,963,771	1,921,215	1,668,744	807,625	174,008	1,344,917	1,518,925	2,126,046
(c) AVERAGE MINE REALIZATION:*														
West Virginia														
Amount	\$1,679,195	\$1,549,379	\$2,362,778	\$3,260,185	\$3,646,842	\$3,450,901	\$3,545,890	\$3,393,577	\$2,362,534	\$942,629	\$185,647	\$1,564,833	\$1,750,480	\$3,918,266
Per Ton Produced	(\$3.367)	(\$2.006)	(\$1.936)	(\$2.069)	(\$2.057)	(\$1.843)	(\$1.806)	(\$1.766)	(\$1.416)	(\$1.167)	(\$1.067)	(\$1.164)	(\$1.152)	(\$1.843)
Virginia														
Amount	404,008	74,245	70,173	38,950	--	--	--	--	--	--	--	--	--	--
Per Ton Produced	(\$3.266)	(\$1.841)	(\$1.971)	(\$1.899)	--	--	--	--	--	--	--	--	--	--
Kentucky														
Amount	178,335	--	--	--	--	--	--	--	--	--	--	--	--	--
Per Ton Produced	(\$2.811)	--	--	--	--	--	--	--	--	--	--	--	--	--
Total														
Amount	\$2,261,538	\$1,623,624	\$2,432,951	\$3,299,135	\$3,646,842	\$3,450,901	\$3,545,890	\$3,393,577	\$2,362,534	\$942,629	\$185,647	\$1,564,833	\$1,750,480	\$3,918,266
Per Ton Produced	(\$3.297)	(\$1.998)	(\$1.937)	(\$2.067)	(\$2.057)	(\$1.843)	(\$1.806)	(\$1.766)	(\$1.416)	(\$1.167)	(\$1.067)	(\$1.164)	(\$1.152)	(\$1.843)
(d) OPERATING EXPENSES, INSURANCE, TAXES, ETC. (Including mine depreciation and depletion, as provided on the books)														
Per Ton Produced	\$1,733,838	\$1,675,354	\$2,185,026	\$2,855,840	\$2,989,373	\$2,912,637	\$3,245,577	\$3,093,653	\$2,600,059	\$1,359,149	\$228,185	\$1,736,364	\$1,964,549	\$3,334,446
	(\$2.528)	(\$2.061)	(\$1.740)	(\$1.789)	(\$1.686)	(\$1.555)	(\$1.653)	(\$1.610)	(\$1.558)	(\$1.683)	(\$1.311)	(\$1.291)	(\$1.293)	(\$1.568)

NOTE: The figures used in this statement were obtained from the following sources:

For the years 1923 to 1931 inclusive (except the split of production and average realization between states) the figures were taken from statements prepared by The Consolidation Coal Company and delivered from time to time to Mr. James Walter Carter. The split of production and realization as between states was made from analysis of billings for the respective years, and the amounts are approximate.

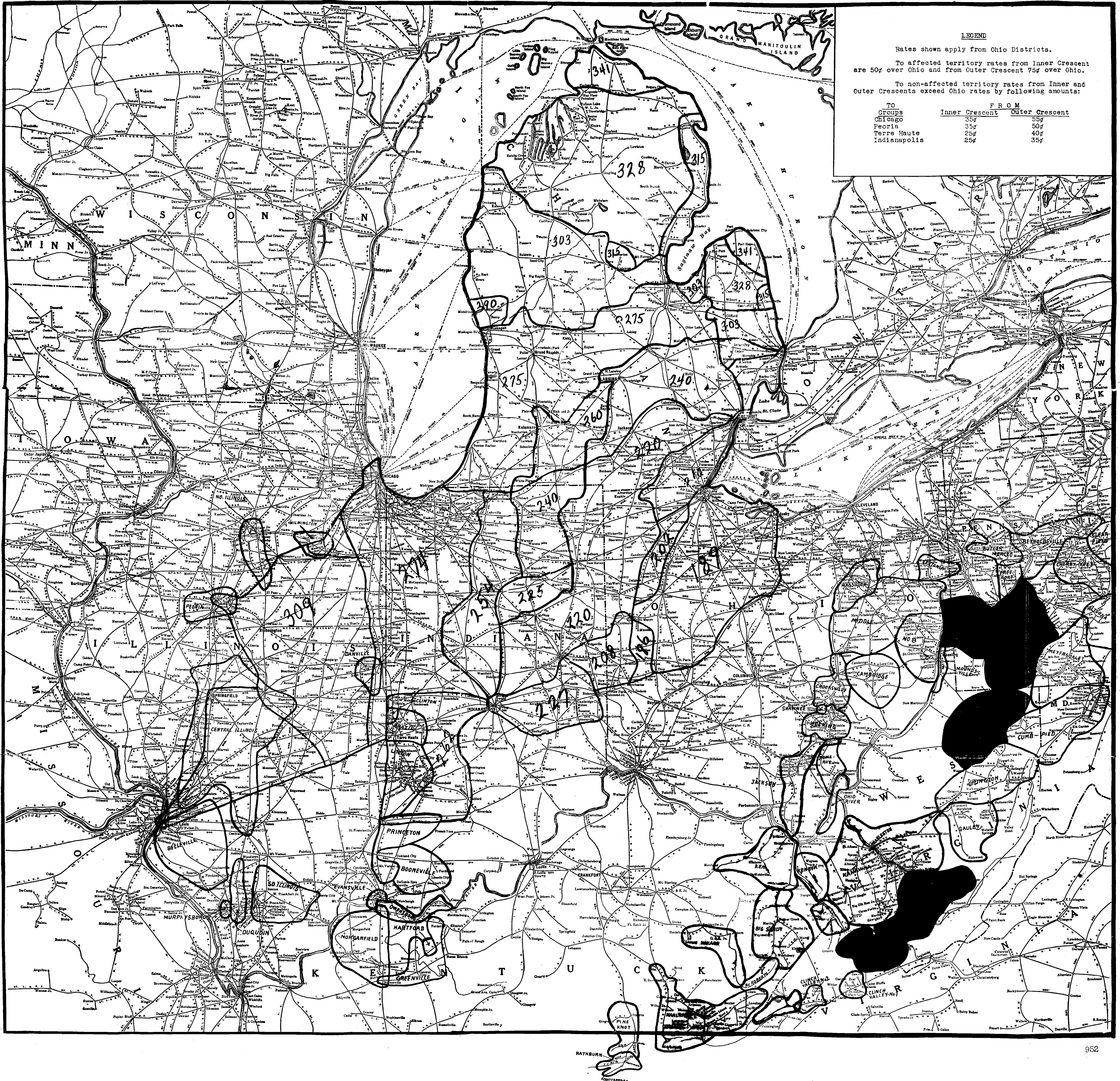
* Includes variation in inventories.

For the year 1932 and for the two and one-half months ended March 15, 1933, the figures were taken by the present (Carter) management from the records of Carter Coal Company as maintained by The Consolidation Coal Company management, and are comparable with the figures for prior years insofar as it was possible to determine.

For the nine and one-half months ended December 31, 1933 and the year 1934, the figures were taken from the records of Carter Coal Company as maintained by the present (Carter) management, arranged so as to be comparable with the figures for the other years, insofar as it was possible to determine.

870B

Plaintiff's Exhibit No. 53



[fol. 953]

PLAINTIFF'S EXHIBIT 54

Freight Rates from Various Coal Producing Fields to Illinois—Indiana—Michigan Points

From:— (Districts)	Pocahontas-Tug River (Norfolk & Western)	Pittsburgh-Connellsville Fairmont (Baltimore & Ohio RR) (Pennsylvania RR)	Kenova-Thacker (Norfolk & Westn)	Kanawha-Kentucky Big Sandy (Chesapeake & Ohio)
To:—				
Illinois-Indiana				
Chicago Group.....	3.29(1)	3.09(2)	3.09(1)	3.09(3)
Chicago, Ill.				
E. Chicago, Ind.				
Gary, Ind.				
Hammond, Ind.				
Lafayette, Ind.				
Michigan City, Ind.				
Indianapolis, Ind.....	2.62(1)	2.52(2)	2.52(1)	2.52(3)
Kokomo Group.....	2.95(1)	2.70(2)	2.70(1)	2.70(1)
Anderson, Ind.				
Kokomo, Ind.				
Muncie, Ind.				
Ft. Wayne, Ind.				
South Bend, Ind.....	3.29(1)	3.04(2)	3.04(1)	3.04(3)
Michigan:				
Detroit Group.....	2.85(1)	2.60(2)	2.60(1)	2.60(3)
Detroit				
Highland Park				
Wyandotte				
Ann Arbor Group.....	2.95(1)	2.70(2)	2.70(1)	2.70(3)
Ann Arbor				
Dearborn				
Jackson				

PLAINTIFF'S EXHIBIT 54—Continued

From:— (Districts)	Pocahontas-Tug River (Norfolk & Western)	Pittsburgh-Connellsville Fairmont (Baltimore & Ohio RR) (Pennsylvania RR)	Kenova-Thacker (Norfolk & Western)	Kanawha-Kentucky Big Sandy (Chesapeake & Ohio)
To:—				
Lansing Group..... Flint Lansing Pontiac Port Huron	3.15(1)	2.90(2)	2.90(1)	2.90(3)
[fol. 954]				
Kalamazoo Group..... Battle Creek Kalamazoo	3.35(1)	3.10(2)	3.10(2)	3.10(3)
Grand Rapids Group..... Bay City Grand Rapids Muskegon Saginaw	3.50(1)	3.25(2)	3.25(1)	3.25(3)

Tariff Authority:—

- (1) N & W 3140-B, 3/5/32
- (2) B & O C & C ICC-2763, 3/15/33
 (PRR AA-ICC-2035, 2/18/24)
- (3) C & O 100-F, ICC-11138, 3/26/31.

[fol. 955]

PLAINTIFF'S EXHIBIT 55

Freight Rates from Various Coal Producing Fields to Ohio Points

From:	Pocahontas-Tug River	Pittsburgh	Connellsville	Fairmont	Kenova-Thacker	Kanawha-Kentucky
(Districts)	(Norfolk & Western)	(Baltimore & Ohio RR)	(Baltimore & Ohio)	(Baltimore & Ohio)	(Nor. & Western)	Big Sandy
		(Pennsylvania RR)	(Pennsylvania RR)	(Pennsylvania RR)		(Ches. & Ohio)
To:						
Canton.....	2.64(1)	1.59(2)	1.65(2)	1.84*(2)	2.39(1)	2.39(3)
Cleveland....	2.64(1)	1.84(2)	1.90(2)	1.99(2)	2.39(1)	2.39(3)
Massillon....	2.64(1)	1.59(2)	1.65(2)	1.87#(2)	2.39(1)	2.39(3)
Youngstown..	2.64(1)	1.34(2)	1.42(2)	1.58(2)	2.39(1)	2.39(3)

References:—

* \$1.82 from Fairmont No. 1 on the Baltimore & Ohio RR—\$1.87 via P. R. R.

\$1.65 from Fairmont No. 1 on the Baltimore & Ohio RR.

Tariff Authority:—

- (1) N & W 3140-B, 3/5/32.
- (2) B & O, C & C, ICC-2763, 3/15/33.
(PRR, AA ICC-2035, 2/18/24.
- (3) C & O, 100-F, ICC-11138, 3/26/31.

(Here follows Plaintiff's Exhibit 56, folio 956.)

874-A

[fol. 956]

PLAINTIFF'S EXHIBIT 56

Freight Rates from Various Coal Producing Fields to Lake Cargo Points

From— (Districts)	Pocahontas-Tug River (Norfolk & Western)	Thacker-Kenova (Nor. & Western)	Kanawha- Kentucky- Big Sandy (Ches. & Ohio)	Pittsburgh (Balt. & Ohio RR) (Penn. R. R.)	Connellsville (Balt. & Ohio RR) (Penn. R. R.)	Fairmont (Balt. & Ohio RR) (Penn. R. R.)	Jellico-Hazard (L & N RR)
To—							
Sandusky, Ohio.....	1.96 (1)	1.81 (1)	1.81 (2)	1.46 (3)	1.54 (3)	1.66 (3)	1.81 (4)
Toledo, Ohio.....	1.96 (1)	1.81 (1)	1.81 (2)	....	....	....	1.81 (4)
Cleveland, Ohio.....	....	....	....	1.46 (5)	1.54 (5)	1.66 (5)	....
Ashtabula, Ohio.....	....	....	....	1.46 (5)	1.54 (5)	1.66 (5)	....
Erie, Pa.....	....	....	....	1.46 (5)	1.54 (5)	1.66 (5)	....

Tariff Authority—

- (1) N & W 3141-B, 4/1/32
- (2) C & O 17-T, ICC 10436, 12/28/27
- (3) B & O C & C, ICC 2800, 7/15/35
- (4) L & N 234-C, ICC A-16223, 2/15/35
- (5) P RR AA ICC 1334, 8/15/19

[fol. 957]

PLAINTIFF'S EXHIBIT 57

Comparison Between Coal Fields and Districts Under Code

Coal Producing Fields	Districts Under the Bituminous Coal Code (Pursuant to the Conservation Act of 1935)
Big Sandy.....	Southern No. 2—District No. 8
Connellsville.....	Western Penna.—District No. 2
Fairmont.....	Northern W. Va.—District No. 3
Hazard.....	Southern No. 2—District No. 8
Jellico.....	Southern No. 2—District No. 8
Kanawha.....	Southern No. 2—District No. 8
Kenova.....	Southern No. 2—District No. 8
Kentucky.....	Southern No. 2—District No. 8
New River.....	Southern No. 1—District No. 7
Pittsburgh.....	Western Penna.—District No. 2
Pocahontas.....	Southern No. 1—District No. 7
Stonega.....	Southern No. 2—District No. 8
Thacker.....	Southern No. 2—District No. 8
Tug River.....	Southern No. 1—District No. 7

[fol. 958]

PLAINTIFF'S EXHIBIT 58

Total Delivered Cost of Bituminous Coal Purchased by Class I Railroads in the United States and Average Cost Per Net Ton

(Source: Interstate Commerce Commission)

Year	Net tons purchased	Total cost delivered(1)	Average delivered cost per net ton
1919(2).....	123,907,508	\$390,036,556	\$3.148
1920(2).....	155,343,635	641,224,469	4.128
1921.....	(3)	(3)	(3)
1922(4).....	120,653,624	473,609,014	3.925
1923(4).....	157,899,918	534,028,691	3.382
1924(4).....	126,340,181	372,030,966	2.945
1925(4).....	131,451,834	348,891,293	2.654
1926(4).....	139,602,076	366,234,326	2.623
1927(4).....	130,606,152	341,600,900	2.616
1928(4).....	119,820,194	298,013,894	2.487
1929(4).....	124,151,763	292,131,298	2.353
1930(4).....	108,651,420	247,696,815	2.280
1931(4).....	91,135,583	197,382,901	2.166
1932(4).....	74,670,282	149,327,909	2.000
1933(4).....	75,486,947	146,833,684	1.95
1934(4).....	79,493,809	175,179,542	2.20

(1) Including transportation charges paid foreign lines. (2) From a special investigation in Docket 12086, Increased Cost of Railroad Fuel, 1920, Report of the Commission of the Senate to the United States in Response to Senate Resolution No. 412, published in Interstate Commerce Commission Reports, Volume 61, p. 761-763. Details are given in an accompanying exhibit. (3) Separate data on bituminous and anthracite purchases were not available for 1921. (4) Data for 1922 to 1934 from Interstate Commerce Commission Statistics of Railways in the United States, Statement Number 49-A. Represents Class I Steam Railways excluding switching and terminal companies.

Compiled by F. G. Tryon, Coal Economics Division, U. S. Bureau of Mines.

NATIONAL RECOVERY ADMINISTRATION

CODE OF FAIR COMPETITION

FOR THE

BITUMINOUS COAL INDUSTRY

AS APPROVED ON SEPTEMBER 18, 1933

BY

PRESIDENT ROOSEVELT



INCLUDES AMENDMENTS 1-3, INCL.

**UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON: 1934**

This publication is for sale by the Superintendent of Documents, Government Printing Office, Washington, D.C., and by district offices of the Bureau of Foreign and Domestic Commerce.

DISTRICT OFFICES OF THE DEPARTMENT OF COMMERCE

Atlanta, Ga : 504 Post Office Building.
 Birmingham, Ala. : 257 Federal Building.
 Boston, Mass. : 1801 Customhouse.
 Buffalo, N.Y. : Chamber of Commerce Building.
 Charleston, S.C. : Chamber of Commerce Building.
 Chicago, Ill. : Suite 1706, 201 North Wells Street.
 Cleveland, Ohio : Chamber of Commerce.
 Dallas, Tex. : Chamber of Commerce Building.
 Detroit, Mich. : 2213 First National Bank Building.
 Houston, Tex. : Chamber of Commerce Building.
 Indianapolis, Ind. : Chamber of Commerce Building.
 Jacksonville, Fla. : Chamber of Commerce Building.
 Kansas City, Mo. : 1023 Baltimore Avenue.
 Los Angeles, Calif. : 1163 South Broadway.
 Louisville, Ky. : 408 Federal Building.
 Memphis, Tenn. : 229 Federal Building.
 Minneapolis, Minn. : 213 Federal Building.
 New Orleans, La. : Room 225-A, Customhouse.
 New York, N.Y. : 734 Customhouse.
 Norfolk, Va. : 406 East Plume Street.
 Philadelphia, Pa. : 933 Commercial Trust Building.
 Pittsburgh, Pa. : Chamber of Commerce Building.
 Portland, Oreg. : 215 New Post Office Building.
 St. Louis, Mo. : 506 Olive Street.
 San Francisco, Calif. : 310 Customhouse.
 Seattle, Wash. : 809 Federal Building.

Approved Code No. 24
CODE OF FAIR COMPETITION
FOR THE
BITUMINOUS COAL INDUSTRY
As Approved on September 18, 1933
BY
PRESIDENT ROOSEVELT

Executive Order

An application having been duly made, pursuant to and in full compliance with the provisions of Title I of the National Industrial Recovery Act, approved June 16, 1933, for my approval of a Code of Fair Competition for the Bituminous Coal Industry, and hearings having been held thereon and the Administrator having rendered his report containing an analysis of the said Code of Fair Competition together with his recommendations and findings with respect thereto, and the Administrator having found that the said Code of Fair Competition complies in all respects with the pertinent provisions of Title I of said Act and that the requirements of clauses (1) and (2) of subsection (a) of Section 3 of the said Act have been met:

NOW, THEREFORE, I, Franklin D. Roosevelt, President of the United States, pursuant to the authority vested in me by Title I of the National Industrial Recovery Act, approved June 16, 1933, and otherwise, do adopt and approve the report, recommendations, and findings of the Administrator and do order that the said Code of Fair Competition be and is hereby approved, subject to the following conditions:

(1) There shall be added to the first paragraph of Section 3 of Article VII of the Code the following sentence:

All coal producers subject to the Code shall furnish to any government agency or agencies designated by the Administrator such statistical information as the Administrator may, from time to time, deem necessary for the purposes recited in Section 3 (a) of the National Industrial Recovery Act and any reports and other information collected and compiled by a Code Authority, as heretofore provided, shall be transmitted to such government agencies, as the Administrator may direct.

(2) There shall be added after the first sentence of Section 4 of Article VII the following sentence:

The President may appoint not more than three members of the Industrial Board in addition to, or in substitution for one or more of, the aforesaid six members of the Divisional Code Authorities.

(3) Schedule A as attached to the Code recommended by the Administrator is approved with the understanding that any basic minimum rates not fixed therein may be approved or prescribed by the President at any time prior to the effective date of this Code by a supplementary Executive Order.

(4) Because it is evident that attempts by those submitting Codes to interpret Section 7 (a) of the National Industrial Recovery Act have led to confusion and misunderstanding, such interpretations should not be incorporated in Codes of Fair Competition. Therefore, paragraph (b) of Article V must be eliminated without, by this exclusion, indicating disapproval in any way of the joint statement of the Administrator and General Counsel of the National Recovery Administration, which has been attached to the Code as Schedule B and was incorporated by reference in said paragraph (b) of Article V.

(5) The exception to the definition of "employee" in Article II belongs in Article III. Accordingly, the words "except members of the executive, supervisory, technical and confidential personnel" are stricken from the third paragraph of Article II. These same words are inserted in the first paragraph of Article III after the words "no employee."

FRANKLIN D. ROOSEVELT.

Approval recommended:

HUGH S. JOHNSON,
Administrator.

THE WHITE HOUSE,
September 18, 1933.

SEPTEMBER 17, 1933.

General HUGH S. JOHNSON,
Administrator, National Recovery Administration,
Washington, D.C.

DEAR SIR: I present herewith for your consideration and recommendation to the President the Code of Fair Competition for the Bituminous Coal Industry.

Efforts were under way to secure the cooperation of the Bituminous Coal operators prior to and in anticipation of the passage of the National Industrial Recovery Act.

The state of utter disorganization in the industry involving the prevalence of unfair competitive practices, particularly in the payment of low wages in order to permit of unreasonably low coal prices, furnished a good example of the effects of unrestrained competition in an industry capable of great overproduction in relation to existing consumer demands. In numerous ways the Bituminous Coal Industry has furnished more convincing evidence of the need for the integrating force of the National Industrial Recovery Act than any other industry in the nation.

The initial and immediate activity of the Administrator and the present writer after your appointment was an effort to bring about a greater coordination and cooperation between the operators in the different sections of the country in this industry and largely in response to this effort there came into being the Northern Coal Control Association and the Smokeless Appalachian Coal Association, representing almost all producers in the Appalachian coal area which produces approximately 70% of the national Bituminous coal tonnage. These associations join in presenting a Code of Fair Competition, this being a remarkable exhibition of cooperation among coal producers who have been engaged for a generation in bitter competitive operations. Other associations in various regions presented separate Codes as did certain groups of individual producers thus offered to the Administration the problem of harmonizing in some manner the divergent views represented in some twenty-eight different Codes.

This industry also presented the unique problem of one in which there was far-reaching organization of labor on an industrial basis, The United Mine Workers of America having contracts with many operators in many fields and claiming organization of workers in many other fields where no contractual relations existed.

The difficulty of reconciling all the conflicting elements in this situation can hardly be overemphasized. During the progress of discussion following the public hearings representatives of the Appalachian Associations requested the aid of the Administration in facilitating the negotiation of a contract between these associations and the United Mine Workers of America, and it was evident to the Administration that this step having been taken a successful conclusion to these negotiations was of the utmost importance in bringing about the submission of a code for the industry as a whole.

In the detailed report which will be prepared for your consideration all the steps taken and the problems involved will be given more

adequate consideration. At the present time in view of the urgent need for the recommendation and approval of the code which was finally adopted and submitted for approval on September 16 by representatives of approximately 95 percent of the national tonnage, it is desirable to make recommendations only as to the following minor details:

1. There is a provision in Article VII, section 3, requiring each code authority to collect and combine any report and other information required under the National Industrial Recovery Act. This should be supplemented by a definite obligation imposed upon the industry to furnish to government agencies such statistical information as the administrator may deem necessary for the purposes recited in Section 3-A of the National Industrial Recovery Act in the form of an Executive Order to be recommended to the President. An appropriate provision will be drafted to cover these requirements.

2. In Article VII, Section 4, provision is made for establishing an Industrial board to consist of nine members designated by the several divisional code authorities and the six members of the divisional authorities who have been appointed by the President. It appears that the provision as written may unduly restrict the President in placing on the Industrial Board only his appointees to the divisional code authorities.

Accordingly, it is recommended that as a condition of approval the President reserve the right to name not more than three members either in substitution for, or in addition to the six presidential appointees made members of the Industrial Board by the present provision of Section 4, of Article VII.

3. Schedule A fixes basic minimum rates for various districts and parts thereof leaving the rates for certain producing areas to be either approved or prescribed by the President prior to the effective date of the code. In view of progress made since the submission of the code in determining those rates not fixed in schedule A as submitted, I am able to recommend the revised Schedule A attached to this report, and desire to make it plain that no rates as fixed in Schedule A as submitted have been changed.

The code as recommended complies in all respects with the pertinent provisions of Title I of the Act. The groups submitting the code impose no inequitable restrictions on admission to membership therein and were truly representative of the Bituminous Industry.

The code as recommended is not designed to promote monopolies or to eliminate or oppress small enterprises and will not operate to discriminate against them, and will tend to effectuate the policy of Title I of the National Industrial Recovery Act.

From evidence adduced during the hearing and all available information, it is believed that this code as now proposed and revised represents an effective, practical, equitable solution for this industry, and its approval as herewith submitted is recommended.

Respectfully submitted.

K. M. SIMPSON,
Deputy Administrator.

Approved:
HUGH S. JOHNSON,
Administrator.

CODE OF FAIR COMPETITION
FOR THE
BITUMINOUS COAL INDUSTRY

ARTICLE I—PURPOSES

To effectuate the policies of Title I of the National Industrial Recovery Act, the following provisions are submitted as a Code of Fair Competition for the bituminous-coal industry and upon approval by the President shall be the standards of fair competition for this Industry.

ARTICLE II—DEFINITIONS

As used in this Code the term "Industry" as applied to the Bituminous Coal Industry means the production and original sale of all kinds of coal (except anthracite), lignite, and the production and original sale of coke other than byproduct coke.

The term "employer" includes any person employing labor in any phase of the industry.

The term "employee" includes all persons employed in the industry.

The term "Administrator" means the official designated by the President to administer the National Industrial Recovery Act.

ARTICLE III—MAXIMUM HOURS OF LABOR

No employee, except members of the executive, supervisory, clerical, technical and confidential personnel, shall be employed in excess of seven hours per day and five days per week, subject to the exceptions hereinafter stated.

Seven hours of labor shall constitute a day's work and this means seven hours work at the usual working places for all classes of labor, exclusive of the lunch period, whether they be paid on the day or the tonnage or other piecework basis; except in cases of accident which temporarily necessitate longer hours for those required on account thereof; and also excepting that number of workers in each mine whose daily work includes the handling of man-trips and those required to remain on duty while men are entering and leaving the mine.

The following classes of mine workers are exempted from the provisions as to the maximum hours of work:

(a) All workers engaged in the transportation of coal shall work the additional time necessary to handle man-trips, and/or haulage animals, and all coal in transit, and shall be paid the regular hourly rates. Mine workers engaged in the dumping, handling and preparation of coal, and in the manufacture of coke, shall work the additional time necessary, not to exceed thirty minutes, to dump and prepare the coal delivered to the tipples each day and to complete the usual duties incidental to the operation of coke ovens, and shall be paid the regular hourly rates. This

rule shall not encourage the working of such overtime except where it is necessary to take care of the conditions named.

(b) Employees engaged at power houses, substations and pumps operating continuously for 24 hours daily are especially exempted from the seven-hour provision. Special exemptions of employees other than those named above may be provided, by joint agreements negotiated in accordance with this code, which shall not provide for work in excess of 8 hours per day and 40 hours per week.¹

ARTICLE IV—MINIMUM RATES OF PAY

From April 1, 1934 to April 1, 1935 the basic minimum rate for inside skilled labor and the basic minimum rate for outside common labor shall be the rate hereinafter set forth in Schedule "A" for each district therein described for each such classification of labor, with the understanding that other classifications of employment will maintain their customary differentials above or below said basic minimum rates.

To secure the parity between minimum rates for day labor and minimum pay for work performed on a tonnage or other piece work basis, the latter shall be determined by the following increases over existing rates in all of the Districts of Schedule "A" except as hereinafter expressly provided:

On the basis of the 2,000 pound ton, an increase of 10 cents per ton for pick mining; 8 cents per ton for machine mining; an increase of 1 cent per ton for cutting, and for all yardage and dead-work rates an increase of 9 percent.

In addition to the increases above provided the minimum rates for tonnage and other piecework in Districts B, G, H, J and J-1, shall be further increased by an amount sufficient to maintain the parity between pay for such tonnage and piece work and the basic minimum rates for day labor as prescribed for such Districts in Schedule "A".²

ARTICLE V—CONDITIONS OF EMPLOYMENT

(a) Employees shall have the right to organize and bargain collectively through representatives of their own choosing, and shall be free from the interference, restraint, or coercion of employers of labor, or their agents, in the designation of such representatives or in self-organization or in other concerted activities for the purpose of collective bargaining or other mutual aid or protection; (2) no employee and no one seeking employment shall be required as a condition of employment to join any company union or to refrain from joining, organizing, or assisting a labor organization of his own choosing; and (3) employers shall comply with the maximum hours of labor, minimum rates of pay, and other conditions of employment approved or prescribed by the President.

(b) Except as otherwise hereinafter provided, all coal mined on a tonnage basis shall be weighed and the miner paid on the basis of 2,000 or 2,240 pound ton. The miners shall have the right to a checkweighman, of their own choosing, to inspect the weighing of coal: *Provided*, that where mines are not now equipped to weigh coal a reasonable time may be allowed to so equip such mines; and pro-

¹ Amendment No. 1.—Approved Mar. 31, 1934.

² Amendment No. 1.—Approved Mar. 31, 1934.

vided, that in any case where rates of pay are based on any other method than on actual weights, the miners shall have the right to check the accuracy and fairness of the application of such methods, by representatives of their own choosing.

(c) The net amount of wages due shall be paid semimonthly in lawful money or par check at the option of operators. Any deductions from employees' pay, if not a matter of agreement, shall be in conformity with such general rules and regulations as the Administrator may prescribe for the purpose of preventing unfair deductions, or those which may in effect lower the rates of pay herein provided.

(d) Employees other than maintenance or supervisory men or those necessary to protect the property shall not be required as a condition of employment to live in homes rented from the employer.

(e) No employee shall be required as a condition of employment to trade at the store of the employer.

(f) No person under seventeen (17) years of age shall be employed inside any mine or in hazardous occupations outside any mine, provided, however, that where a state law provides a higher minimum age, the state law shall govern; no person under the age of sixteen (16) shall be employed in or about a mine.

(g) As soon as possible after the adoption of this Code, the National Recovery Administration shall undertake, through a designated committee or agency, an investigation for the purpose of reporting on or before December 31, 1933; upon (a) the practicability and cost (assuming the maintenance of existing rates of pay) of applying to bituminous coal mining a shorter work day and work week; (b) the effect of an advisability of revising wage differentials in the various divisions and districts of the industry and in the event of recommended change specification of the amount thereof; (c) the sales obtained for coal, or reasonably to be anticipated, up to the time of the report, for the purpose of determining whether wages and employment can be further increased or maintained without imposing undue burdens upon the industry.

On January 5, 1934, there shall be held a conference between representatives of employers and employees operating under this Code, together with representatives of the National Recovery Administration, for the purpose of determining what, if any, revisions may be desirable at that time of the wages, hours, and differentials, or any other requirements of this Code, on the basis of conditions then existing and the report of representatives of the National Recovery Administration made as hereinbefore provided.

Unless revised by mutual agreement, as the result of said conference beginning January 5, 1934, the hours of work, minimum rates of pay, and wage differentials as set forth in this Code shall continue in effect until April 1, 1934.

ARTICLE VI—UNFAIR PRACTICES

SECTION 1. The selling of coal under a fair market price (necessary to carry out the purposes of the National Industrial Recovery Act, to pay the minimum rates herein established, and to furnish employment for labor) is hereby declared to be an unfair competitive practice and in violation of this Code. In order to determine the fair market price, agencies shall be established, as hereinafter provided,

and sales of coal at any time at a price less than a fair market price determined and published, as hereinafter provided, shall create against any person selling at a lower price a prima facie presumption that such a person is engaged in destructive price cutting and unfair competition. It shall be proper in determining such fair market price to take into consideration, in addition to the matters above set forth, also competition with other coals, fuels, and forms of energy or heat production.

SEC. 2. The fair market prices of coal of any grade and character referred to in the next preceding section, subject to the power of review hereinafter stated shall be—

(a) The minimum prices for the various grades and sizes in the various consuming markets which may be established for future application by a marketing agency or by marketing agencies, of whatever form or howsoever constituted, now existing or hereafter created or organized, acting for coal producers truly representative of at least two thirds of the commercial tonnage of any coal district or group of districts, such minimum prices to be effective when and as announced as provided in Section 4 hereof.

(b) The minimum prices for the various grades and sizes in the various consuming markets, where no such marketing agency exists, which may be established for future application by the respective Code Authorities hereinafter set up, for their respective areas, after having given consideration to the various conditions and circumstances entering into the sale of each grade and class of commercial coal produced in the district or group of districts it represents, such minimum prices to be effective when announced as provided in Section 4 hereof.

(c) As a basis for determining the fair market price to be announced and published, as provided in the two preceding clauses, the Code Authorities shall utilize the Classifications of coals made by such agencies as are referred to in clause (a) of this section, and shall classify the coals in said districts not sold by such agencies and also the coals in the districts referred to in clause (b) of this section, to which the various prices apply. Said Code Authorities shall, at all times, provide and keep open an office during business hours to which any coal producer in said districts and any representative of the Administrator may apply for information with respect to said classifications and prices.

(d) The term "marketing agency" or "agency" as used in this Article shall include any trade association of coal producers complying with the requirements of a marketing agency and exercising the functions thereof.

SEC. 3. The fair market prices established for future application under the provisions of Section 2 (a) shall be reported to said Code Authorities by any such marketing agencies in such manner as may be required by such Authorities.

SEC. 4. The fair market price of bituminous coal, established as aforesaid by such agencies and Code Authorities shall be published within fifteen days after the effective date of this Code, after approval by the Presidential Member of the Code Authority (acting under the direction of the Administrator), who in his approval may permit a reduction or increase in said prices by action of said agencies or Authorities within the limits which he may prescribe, and thereafter

shall be published whenever any change is made therein, and not less frequently than one each month, and on the first of the month. Simultaneously with such publication, said fair market prices of bituminous coal shall be transmitted by the Code Authorities to the National Recovery Administrator for his further review and subsequent action.

SEC. 5. Both the records and the data of such marketing agencies and of said Code Authorities shall be open to inspection and investigation by any agent of the Administrator whom he shall appoint for that purpose. Should such an agent of the Administrator disapprove of any changes proposed in any fair market prices from those previously approved by the Administrator as being in excess of any reductions or increases allowed in such approval, such changes shall not be made effective unless and until the Administrator shall approve them.

SEC. 6. The consignment of unordered coal, or the forwarding of coal which has not actually been sold, consigned to the producer or his agent, is a violation of this code; provided, however, that coal which has not actually been sold may be forwarded, consigned to the producer or his agent at rail or truck yards, tidewater ports, river ports, or lake ports, and/or docks beyond such ports, but such consignments shall be limited to cover:

- (a) Bunker coal;
- (b) Coal applicable against existing contracts;
- (c) Coal for storage (other than in railroad cars) by the producer or his agent in rail or truck yards or on docks, wharves, or other yards for resale by the producer or his agent.

SEC. 7. The adjustment of claims with purchasers of coal in such manner as to grant secret allowances, secret rebates, or secret concessions creates price discrimination and is a violation of this Code.

SEC. 8. The prepayment of freight charges with intent or with the effect of granting a discriminatory credit allowance is a violation of this Code.

SEC. 9. The giving in any form of adjustments, allowances, discounts, credits, or refunds to purchasers or sellers of coal, for the purpose or with the effect of altering retroactively a price previously agreed upon in such manner as to create price discrimination is a violation of this Code.

SEC. 10. The predating or the postdating of any invoice or contract for the purchase or sale of coal, except to conform to a bona fide agreement for the purchase or sale entered into on the predate is a violation of this Code.

SEC. 11. Terms of sale shall be strictly adhered to; and the payment or allowance of rebates, refunds, credits, or unearned discounts, whether in the form of money or otherwise, or extending to certain purchasers services or privileges not extended to all purchasers under like terms and conditions, is a violation of this Code.

SEC. 12. An attempt to purchase business, or obtain information concerning a competitor's business by gifts or bribes, is a violation of this Code.

SEC. 13. The intentional misrepresentation of analysis and/or sizes or the intentional making, causing or permitting to be made, or