

operation of the mine; for violation of this clause the Committee or any member thereof may be removed from the Committee.

If any day man refuses to continue at work because of a grievance which has or has not been taken up for adjustment in the manner provided herein, and such action shall seem likely to impede the operation of the mine, the Mine [fol. 1070-33] Committee shall immediately furnish a man or men to take such vacant place or places at the scale rate, in order that the mine may continue at work, and it shall be the duty of any member or members of the United Mine Workers of America who may be called upon by the mine foreman or mine committee to immediately take the place or places assigned to him or them in pursuance hereof.

The mine committee, or any member thereof, shall under no circumstances, go around the mine for any cause whatsoever, unless called upon by the mine foreman or by the miner or day man, who may have a grievance that he cannot settle with the mine foreman, and then only to investigate that grievance with the mine foreman and the employee involved.

Grievances must be taken up after work hours unless otherwise agreed to.

Members of the mine committee employed as day men shall not leave their places of duty during working hours, except with the permission of the mine management or in cases involving the stopping of the mine.

#### Settlement of Disputes

Should differences arise between the Mine Workers and the Operator as to the meaning and application of the provisions of this Agreement, or should differences arise about matters not specifically mentioned in this Agreement, or should any local trouble of any kind arise at any mine, there shall be no suspension of work on account of such differences, but an earnest effort shall be made to settle [fol. 1070-34] such differences immediately:

First, between the aggrieved party and the mine management;

Second, through the management of the mine and the mine committee;

Third, by a Board consisting of four members, two of whom shall be designated by the Mine Workers and two

by the Operators. Such a board shall be established for the Pocahontas-Tug River, Winding Gulf, New River and Greenbrier districts.

Should the Board fail to agree, the matter shall be referred to the umpire who shall be selected by the Joint Committee signatories hereto within 30 days from the effective date of this agreement. The decision of the umpire in any event shall be final.

Expense and remuneration incident to the services of the umpire shall be paid jointly by the Operators and Mine Workers.

Each producing district may appoint a commissioner who can act with a representative of the United Mine Workers of America for the purpose of adjusting disputes or settling grievances arising under the contract.

A record of all cases settled under this contract between the district representative of the United Mine Workers of America and the mine management or between the Operator's commissioner and the district representative of the United Mine Workers of America shall be filed with the joint board of each producing district.

[fol. 1070-35] Pending the hearing of disputes the Mine Workers shall not cease work because of any dispute; and a decision reached at any stage of the proceedings shall be binding on both parties thereto, and shall not be subject to re-opening by any other party or branch of either association except by mutual agreement.

#### Discharge Cases

When a Mine Worker has been discharged from his employment and he believes he has been unjustly dealt with, it shall be a case arising under the method of settling disputes herein provided. In all discharge cases should it be decided under the rules of this Agreement that an injustice has been dealt the Mine Worker, the Operator shall reinstate and compensate him at the rate based on the earnings of said Mine Worker prior to such discharge, provided, however, that such case shall be taken up and disposed of within five days from the date of discharge, and provided further that the mine management may permit the man discharged to return to work pending the decision in the case without prejudice to either party in handling the case.

### Illegal Suspension of Work

A strike or stoppage of work on the part of the Mine Workers shall be a violation of this Agreement. Under no circumstances shall the Operator discuss the matter under dispute with the Mine Committee or any representative of the United Mine Workers of America during suspension of work in violation of this Agreement.

### Irregular Work

When any Mine Worker absents himself from his work for a period of two days without the consent of the Operator, other than because of proven sickness, he may be discharged. If a man persists in working irregularly he may be discharged. When a Machine Runner or any employee upon whose work other employees are dependent, absents himself from work without giving advance notice to the Mine Foreman, he shall forfeit his position.

### Safety Practice

Reasonable rules and regulations of the Operator for the protection of the persons of the Mine Workers and the preservation of property shall be complied with. The practical application and the use of safety appliances is viewed with favor by the United Mine Workers of America.

The United Mine Workers of America also view with favor the formation of Dr. Holmes Safety Chapters.

### Engineers and Pumpers Duties

When required by the management, engineers, pumpers, firemen, power plant and sub-station attendants shall under no condition suspend work but shall at all times protect all the company's property under their care, and operate fans and pumps and lower — hoist men or supplies as may be [fol. 1070-37] required to protect the company's coal plant.

### Shifts

The operator shall have the right during the entire period of this Agreement to work all the mines, or any one or more of them, extra shifts with different crews.

When the mine works only one shift it shall be in the day time, but this shall not prevent cutting and loading coal at night in addition to the day shift cutting and loading.

When it is necessary in any mine to call men to work on other days than those which the mine operates in order to rush headings for the development of working places, to keep pillar lines in proper condition, to maintain equipment in safe and efficient operating condition, clean up slate falls or repair trolley lines and such other work of like character that may interfere with the mine work the next operating day, to make the improvements to the mines such as track work that would ordinarily interfere with the operation. It is understood the management shall make such calls at its own discretion provided, however, no man is required to work in any one week a greater number of hours than provided in the Appalachian Agreement.

#### Pay Day

Pay shall be made semi-monthly and at least twice each month.

[fol. 1070-38]

#### Subcontracting

The practice of subcontracting and the hiring of back hands for the mining and loading of coal shall not be permitted. This section shall not prohibit a group of miners working gang work in isolated places where the compensation paid is not less than the prices provided for in this contract.

#### Machine Work

No extra compensation shall be paid either cutter or loader because of the direction of a working place with reference to the butts or faces, or because it is driven an angle therewith.

The cutter shall cut the coal as directed by the management. In bottom cutting, if the cutter leaves a spragg or a thick bottom in excess of the thickness as directed by the mine management, he shall be notified to remove the same and should he fail or refuse, he shall be charged one dollar (\$1.00) for each spragg and fifty cents (50¢) for each run of thick bottom for breast machine or its equivalent width, the same to be paid to the loader who shall remove the same.

All bottom coal must be taken up and loaded by the loader if required by the employer.

Each machine crew shall be required to keep the cutting up in the section designated. Machine territory shall be

divided so that the territory designated for each machine may be cut normally in seven hours time, and each machine crew shall be required to keep the cutting up in the section so designated. If for any reason this cannot be done in regular hours, they shall work sufficient overtime to insure all loaders having coal to load.

The machine men may be required to either remove bits from the chain or cutter head, or place a shield over the cutter head to make the machine safe to be moved.

#### Discipline

All questions of dispute shall be considered and finally disposed of as provided for in this contract.

The United Mine Workers of America recognize the very fundamentals upon which collective bargaining is founded is the strict observance of agreements by both parties to this contract. Local strikes will not be tolerated. Every member of the United Mine Workers of America under the jurisdiction of this agreement pledges himself to cooperate with and assist every officer of the organization of the United Mine Workers of America in preventing local strikes. Every officer of the United Mine Workers of America pledges himself to do everything possible to make this declaration effective.

#### Equal Turn

The operator shall see that an equal turn is offered each miner and that he shall be given a fair chance to obtain the same.

#### Other Conditions Not Specified

All terms and conditions not specified under this contract to continue as they now exist during the life of this contract [fol. 1070-40] except where changed by mutual consent.

#### Equipment and Machinery

The employer shall be entitled to the fullest use of all machinery and equipment at the mines.

#### Equipment—Loading Coal

The Operator shall at all times be at liberty to load any transportation equipment whatsoever, regardless of owner-

ship, and to sell and deliver such loaded equipment in any market, and to any person, firm or corporation they may desire.

#### Coking Plants and Cleaning Plants

Proper local agreements shall be made to provide for the continuous operation of coking and cleaning plants. Agreements for the operation of coking plants shall be made locally.

#### Increased Costs

During the period of this agreement no deviation therefrom, and no change in customary working conditions other than herein required, shall be permitted or approved by the United Mine Workers of America which will, directly or indirectly, increase the cost of producing coal to the employer, or which will, directly or indirectly, decrease the rate of pay of the employees.

#### [fol. 1070-41] Loading Mine Cars

In case of loss in transit, the company shall not be held responsible, except where a wreck occurs.

#### Smithing

One-half of one per cent of the earnings of the coal loader shall be the charge for Smithing. The Operator agrees to use every effort to have the mine worker's tools repaired and sharpened with as little delay as possible; it being understood that there shall be no charge for blacksmithing unless the operator furnishes a blacksmith.

#### Explosives

All explosives, tools and supplies incidental to the mining of coal shall be furnished by the mine worker at his expense. The operators shall have the sole right to designate the kind, type, size, quality and quantity of explosives that shall be used in any shot hole. Where Operators sell explosives the explosives shall be furnished to the mine workers at cost, which is to include handling, transportation and insurance.

#### Electric Cap Lamps

When electric cap lamps are furnished by the Operator, the charge shall not exceed (8) cents per day for each shift

a lamp is used. Any damage to or breakage of the lamp shall be repaired by the Operator and the cost thereof [fol. 1070-42] charged to the mine worker in whose possession the lamp was when the damage resulted.

#### House Coal

The price of coal for domestic use by employees shall be at the rate of \$2.25 per month plus actual haulage charge from the mine.

In no case shall coal be taken from the mine cars or railroad cars, and may only be picked up from the tipple by special permission of the management.

Where employees live in other than company owned houses, away from the plant, the charge shall be \$2.25 per ton plus actual haulage charges.

#### Starting Time

The starting time of any mine worker of the mine or tipple shall be left exclusively to the management, and thirty minutes shall be taken for lunch period.

#### Funeral

On the day that death by accident occurs in a mine, for that day only the miners may cease work, but under no circumstances shall a mine be laid idle for a funeral. This is, however, not to prevent individuals from attending a funeral.

#### Burial Fund

At mines where burial funds are or may be established, adequate protection by surety bond shall be given to the funds of the burial fund also the disbursements of moneys. [fol. 1070-43] Procedure shall be covered by by-laws that have been agreed to by the employees and the management.

At mines where agreed by-laws are already in effect, such by-laws shall continue.

#### Insurance

Parties to this agreement encourage group insurance for employees, but it shall not be made a requisite to employment.

Any disagreements or misunderstandings arising relative to the application of the insurance shall be referred to a committee composed of six members, three from the miners and three from the management.

#### Hospitalization

All collections for hospitals will continue under the terms and conditions of this agreement, provided, however, that injuries compensatory under the terms of Workmen's Compensation Laws will be paid for by the Operator. If, however there is any dissatisfaction with list hospital contracts the dispute may be taken up as a grievance under this contract.

#### Pick Mining

In accordance with local custom in each district, pick coal rates shall be the basic loading rate plus the shortwall cutting rate, except in the Pocahontas and Tug River districts, in which the basic tonnage rate only will apply. The basic tonnage rate shall also apply in other Smokeless districts where conditions are identical with Pocahontas-Tug River [fol. 1070-44] by agreement between the mine management and the district officers of the Mine Workers.

#### Expiration of Contract

This Agreement shall become effective October 1, 1935, and shall continue in effect until April 1, 1937.

#### Check-Off

The dues of the United Mine Workers of America, not exceeding One Dollar (\$1.00) per month, shall be checked off the wages of members of said organization by the Operator at the rate of Fifty Cents (\$0.50) per half month, and shall be remitted to the Secretary-Treasurer of the District, United Mine Workers of America, on the date of the regular pay day, or within three (3) days thereafter, for distribution to the branches of the United Mine Workers of America; and no other assessments shall be so checked off except upon the authorization of the International Executive Board of the United Mine Workers of America.

Initiation Fees of the United Mine Workers of America, in sums not to exceed One Dollar (\$1.00) per man in any one



pay period, shall be deducted by the Operator and remitted to the Financial Secretary of the Local Union, United Mine Workers of America. Under no circumstances shall the Initiation Fee for any one man exceed Ten Dollars (\$10.00).

Deductions for dues and initiation fees of the United Mine Workers of America shall follow wages of checkweighmen, [fol. 1070-45] accident and death benefits, rent, doctor, hospital and mining expense.

#### Penalties

Should any Mine Worker or Mine Workers at the mine cause the mine or part of the mine to shut down in violation of this rule, every employee at said mines, except those who continue to work, shall have deducted from his or their earnings the sum of two dollars per day for each part of a day they may remain idle. Should any operator or his representative lock the men out for the purpose of forcing a settlement of any grievance, or cause the mine to shut down in violation of this rule, he shall be fined two dollars per employee for each day or part of a day the mine is thus thrown idle.

All fines provided for in this agreement shall be automatically collected and any operator failing to collect such fines shall pay a penalty of four dollars for each employee subject to be fined. The proceeds of all fines arising under this clause shall be paid to such charities as may be agreed upon by the representatives of the coal Company and the representatives of the employee. In no case shall any fine be refunded except by mutual agreement of the accredited representatives of the operators and the miners.

It is further agreed that where any employee enters suit in the civil courts to collect any fines collected in accordance herewith, the employees who are parties to this contract [fol. 1070-46] shall reimburse the operator for the expense incurred on account of such suit.

#### Labor Classifications and Day Rates

The following hourly and day wage rates shall be paid in all mines in the Greenbrier, New River, Winding Gulf and Pocahontas-Tug River districts.

## Inside Rates :

	Rate per hour	Rate per day
Machine Runners .....	.780	5.46
Machine Runners Helpers .....	.757	5.30
Motormen .....	.751	5.26
Brakemen .....	.729	5.10
Rock Drillers .....	.751	5.26
Rock Drillers Helpers .....	.694	4.86
Driver single .....	.729	5.10
Drivers double .....	.729	5.10
Coal Drillers .....	.729	5.10
Trackmen .....	.729	5.10
Track Helpers .....	.694	4.86
Timbermen .....	.729	5.10
Timbermen Helpers .....	.694	4.86
Bratticemen .....	.729	5.10
Bratticemen Helpers .....	.694	4.86
Wiremen and Bonders .....	.729	5.10
Wire and Bond Helpers .....	.694	4.86
Pumpers .....	.694	4.86
Bottom Cagers .....	.729	5.10
Bottom Cager Helper .....	.694	4.86
Couplers .....	.694	4.86
[fol. 1070-47] Trappers, Flaggers & Switch Throwers .....	.500	3.50
Greasers .....	.500	3.50
Dumpers Inside .....	.729	5.10
Dumpers Helpers Inside .....	.694	4.86
Slate Shooters .....	.729	5.10
Shot Firers .....	.729	5.10
Loading Machine Operators (coal) .....	.928	6.50
Loading Machine Operators H e l p e r s (coal) .....	.780	5.46
Loading Machine Operators (rock) .....	.889	6.22
All other Inside Labor .....	.694	4.86

## Outside Rates :

Dumper .....	.620	4.34
Car Dumper Helpers .....	.586	4.10
R. R. Car Droppers .....	.620	4.34
R. R. Car Cleaners .....	.586	4.10
R. R. Car Trimmers .....	.620	4.34
Blacksmith (First Class) .....	.814	5.70

Inside Rates—Continued	Rate per hour	Rate per day
Blacksmith (Second Class) . . . . .	.729	5.10
Blacksmith Helpers . . . . .	.620	4.34
Car Repairmen . . . . .	.620	4.34
Car Repairmen Helpers . . . . .	.586	4.10
Bit Sharpeners . . . . .	.620	4.34
Sand Dryers . . . . .	.586	4.10
Sub-Station Operators . . . . .	.586	4.10
Greasers . . . . .	.586	4.10
Slate Pickers . . . . .	.500	3.50
Cripples, boys and old men . . . . .	.500	3.50
Lamp House Man . . . . .	.620	4.34
[fol. 1070-48] Lamp House Helpers . . . . .	.586	4.10
Tipple Mechanics . . . . .	.620	4.34
Tipple Mechanic Helpers . . . . .	.620	4.34
Tipple Operator . . . . .	.620	4.34
Hoisting Engineer . . . . .	.729	5.10
Firemen . . . . .	.586	4.10
Carpenters . . . . .	.751	5.26
Carpenters Helpers . . . . .	.620	4.34
Masons . . . . .	.751	5.26
Washer Man . . . . .	.620	4.34
Boom Man . . . . .	.620	4.34
Electrician . . . . .	.751	5.26
Electrician Helpers . . . . .	.620	4.34
Power House Eng. . . . .	.751	5.26
Teamsters & Truck Drivers . . . . .	.586	4.10
Common able-bodied outside labor . . . . .	.586	4.10
Boys unskilled outside labor . . . . .	.500	3.50
Aerial Tramway operator . . . . .	.620	4.34
Slate Hoist Operator . . . . .	.620	4.34
Steam Locomotive Eng. . . . .	.751	5.26
Brakemen . . . . .	.729	5.10

Where Sub-Stations are isolated from the mines, present conditions of employment shall prevail.

The present rates for operators of mechanical motors for handling slate on the outside shall be increased fifty (50) cents per day.

The above rates are minimum rates but it is agreed that present rates, if above these minimums, shall be increased fifty cents per day.

[fol. 1070-49]

## Schedule

Basic rates—Pocahontas-Tug River District—Tonnage rates per 2,000 pounds runs of mine coal:

Machine Loading .....	\$0.517
Cutting, Shortwall Machine .....	.065
Cutting, Track Machine .....	.045

## Yardage

In all mines the usual Pocahontas Sulphur and bone shall be handled without compensation. Where a parting or middleman occurs, in lieu of the usual Pocahontas bone, four inches of the parting or middleman shall be removed free; all over four inches shall be paid for at the rate of \$0.072 per inch per lineal yard.

The usual draw slate in excess of four inches shall be paid for at the rate of \$0.072 per inch per lineal yard.

Sand rock top that requires drilling and shooting shall be handled by company men.

In Witness Whereof, each of the Parties hereto, Pursuant to Proper Authority, has Caused This Agreement to be Signed.

United Mine Workers of America, John L. Lewis, President. Philip Murray, Vice-President. [fol. 1070-50] Thomas Kennedy, Secretary-Treasurer. Van A. Bittner, Pres. Dist. No. 17. Wm. Blizzard, Vice-Pres. Dist. No. 17. Jesse Aquino. John Gatherum. F. R. Coleman. G. W. White. H. L. Smith. Otto Bailey. H. G. James. Chris Dresich. G. C. Skaggs. Laurence Hindle. J. H. Carter.

Smokeless Coal Board, L. T. Putman, President. P. P. Kerr, Vice-President. H. C. Faust, Secretary. J. Wade Bell. Edw. Graff. R. J. Burmeister. P. C. Graney. M. L. Garvey. R. E. Salvati. H. F. Warden.

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## AVERAGE VALUE PER TON OF COAL AT THE MINES, BY STATES. ----- 1913 - 1934.\*

STATE	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
Alabama	\$1.31	\$1.34	\$1.28	\$1.37	\$2.27	\$2.85	\$2.96	\$3.65	\$3.08	\$2.34	\$2.52	\$2.34	\$2.12	\$2.29	\$2.25	\$2.25	\$2.08	\$2.03	\$1.82	\$1.54	\$1.57	
Alaska	(1)	(1)	(1)	4.00	4.92	5.45	5.66	5.23	6.46	5.43	6.30	5.62	4.89	5.26	5.25	5.25	5.25	5.25	5.25	5.00	4.99	
Arkansas	1.76	1.72	1.79	1.92	2.56	3.67	3.70	4.56	4.37	4.14	4.01	4.06	3.96	3.77	3.48	3.38	3.32	3.36	3.04	2.74	2.66	
Arizona	---	---	---	---	---	---	---	---	---	---	---	---	---	(1)	(1)	(1)	(1)	(1)	5.90	4.80	5.03	
California	3.54	2.85	2.54	2.12	2.30	2.70	3.38	4.36	4.66	3.87	3.94	4.19	4.75	3.67	2.81	3.13	3.96	4.67	5.06	3.68	3.60	
Colorado	1.52	1.66	1.58	1.62	2.22	2.69	2.78	3.49	3.55	3.16	3.22	3.05	2.94	2.78	2.78	2.80	2.65	2.62	2.41	2.19	2.17	
Georgia	1.41	1.44	1.72	1.79	2.53	3.59	3.71	5.00	2.14	4.06	4.32	3.62	3.32	2.89	3.04	3.10	3.05	2.54	2.09	1.76	1.86	
Illinois	1.14	1.12	1.10	1.25	1.88	2.32	2.30	3.08	2.74	2.89	2.50	2.27	2.19	2.14	2.16	2.00	1.87	1.74	1.70	1.53	1.46	
Indiana	1.11	1.10	1.10	1.27	1.99	2.29	2.22	3.16	2.57	2.85	2.48	2.16	2.02	1.98	2.03	1.78	1.63	1.59	1.45	1.30	1.28	
Idaho	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
Iowa	1.79	1.79	1.78	1.86	2.35	3.02	3.09	3.94	3.81	3.72	3.59	3.31	3.14	3.07	3.15	2.86	2.82	2.67	2.53	2.40	2.26	
Kansas	1.67	1.64	1.66	1.78	2.31	2.91	3.05	3.87	3.85	3.66	3.21	3.03	2.82	2.84	2.80	2.44	2.25	2.15	1.90	1.75	1.75	
Kentucky	1.05	1.02	1.01	1.19	2.17	2.55	2.46	4.11	2.69	3.02	2.54	1.88	1.72	1.74	1.73	1.56	1.54	1.49	1.27	.99	1.13	
Maryland	1.24	1.27	1.28	1.56	2.46	2.77	2.73	4.63	3.61	3.37	3.02	2.17	1.97	2.21	2.07	1.84	1.75	1.63	1.45	1.28	1.39	
Michigan	1.99	1.99	2.05	2.25	3.22	3.83	3.88	4.93	4.87	5.05	4.73	4.33	4.20	4.12	4.51	4.26	3.61	3.51	3.04	2.73	2.88	
Missouri	1.73	1.73	1.73	1.91	2.43	3.02	3.21	4.16	3.92	3.81	3.40	3.29	3.07	2.96	2.84	2.58	2.43	2.33	2.00	1.64	1.80	
Montana	1.74	1.75	1.62	1.73	2.11	2.53	2.67	3.16	3.26	3.19	3.07	2.96	2.59	2.46	2.55	2.27	2.22	2.00	1.81	1.66	1.54	
Nebraska	---	---	---	---	---	---	---	---	---	---	---	(1)	---	---	---	---	---	---	---	---	---	
Nevada	---	(1)	(1)	---	---	---	---	---	---	---	---	---	---	---	(1)	---	(1)	---	---	---	---	
New Mexico	1.46	1.61	1.44	1.47	1.86	2.68	3.11	3.68	3.91	3.49	3.66	3.51	3.37	3.16	3.13	3.18	3.17	3.06	2.96	2.63	2.50	
North Carolina	---	---	---	---	---	4.75	3.84	7.02	5.76	4.94	3.66	3.92	4.34	4.19	3.88	3.30	3.39	3.51	3.81	3.16	3.48	
North Dakota	1.52	1.52	1.45	1.49	1.80	2.45	2.50	2.87	2.69	2.65	2.36	2.06	1.85	1.74	1.70	1.68	1.70	1.63	1.42	1.26	1.26	
Ohio	1.10	1.13	1.08	1.33	2.48	2.58	2.22	3.82	2.65	3.23	2.43	2.03	1.93	1.96	1.92	1.69	1.51	1.40	1.24	1.11	1.20	
Oklahoma	2.05	2.06	2.01	2.09	2.81	3.64	3.83	4.80	4.62	4.11	3.77	3.69	3.30	3.18	3.03	2.96	3.04	2.78	2.42	2.11	2.11	
Oregon	2.53	2.78	2.84	2.68	3.38	2.81	3.40	4.49	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
Pennsylvania-Bituminous	1.11	1.07	1.06	1.30	2.44	2.59	2.42	3.77	2.78	3.11	2.75	2.26	2.10	2.13	2.05	1.90	1.80	1.72	1.59	1.34	1.37	
South Dakota	1.96	1.75	1.55	2.03	2.90	2.80	3.17	3.60	2.81	2.84	2.41	2.99	2.91	2.91	3.04	2.80	2.96	2.42	2.33	1.77	1.75	
Tennessee	1.14	1.14	1.13	1.23	2.19	2.83	2.77	4.02	3.35	2.89	2.73	2.13	1.85	1.90	1.84	1.73	1.69	1.64	1.47	1.32	1.39	
Texas	1.77	1.69	1.65	1.56	1.77	2.63	2.69	3.75	2.64	2.32	1.82	1.50	1.55	1.60	1.51	1.34	1.45	1.57	1.49	1.42	1.01	
Utah	1.65	1.59	1.58	1.62	2.07	2.71	2.76	3.22	3.35	3.14	2.89	2.69	2.56	2.37	2.32	2.53	2.47	2.47	2.22	1.99	1.91	
Virginia	1.01	1.01	.98	1.06	2.00	2.51	2.55	3.99	3.06	2.58	2.76	2.04	1.84	1.92	1.80	1.71	1.64	1.61	1.45	1.21	1.23	
Washington	2.38	2.20	2.17	2.27	2.68	3.46	3.58	3.88	4.03	3.98	3.72	3.65	3.62	3.61	3.50	3.46	3.43	3.23	3.14	2.99	2.81	
West Virginia	1.01	.99	.97	1.18	2.32	2.56	2.49	4.34	2.84	2.93	2.65	1.82	1.71	1.84	1.72	1.59	1.55	1.50	1.31	1.06	1.14	
Wyoming	1.56	1.55	1.46	1.55	1.93	2.59	2.60	2.92	3.24	3.04	2.76	2.71	2.79	2.74	2.69	2.64	2.54	2.49	2.40	2.23	2.15	
TOTAL	1.12	1.17	1.13	1.32	2.26	2.58	2.49	3.75	2.89	3.02	2.68	2.20	2.04	2.06	1.99	1.86	1.78	1.70	1.54	1.31	1.34	1.82 (preliminary)

\*U. S. Bureau of Mines

Note:  
1. Included in California

Not available.

**1061**

## SHIPMENTS INTO INDIANA, YEARS 1920 to 1934, INCLUSIVE

D.Ex. 24

ORIGINS		1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
Western Penna.	(Pittsburgh	33,456	8,510	17,331	19,685	853	242	123	344	70	321	717	---	525	85	88
	(Freeport	78	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	(Butler-Mercer	45	---	845	1,249	444	---	---	---	---	---	---	---	---	---	---
	(Connellsville	4,265	1,003	3,699	1,466	154	77	119	856	49	---	450	---	---	---	242
	<b>TOTAL</b>	<b>37,844</b>	<b>9,513</b>	<b>21,875</b>	<b>22,400</b>	<b>1,451</b>	<b>319</b>	<b>242</b>	<b>1,200</b>	<b>119</b>	<b>321</b>	<b>1,167</b>	<b>000</b>	<b>525</b>	<b>85</b>	<b>330</b>
Southern High Volatile	Fairmont	67,441	24,189	38,461	73,196	20,434	34,717	10,151	63,922	24,139	44,548	46,029	23,402	32,019	26,879	23,691
	(Kanawha	1,076,090	1,214,256	1,147,734	1,718,918	2,117,910	2,339,170	2,346,033	2,438,451	2,534,027	2,632,708	2,123,505	1,566,344	1,416,527	1,451,422	1,498,208
	(Kenova	38,718	46,722	91,603	100,946	190,303	228,331	158,676	157,602	143,808	151,886	133,932	93,629	103,394	79,738	49,980
	(Thacker	138,661	99,447	256,763	297,123	363,098	376,376	340,667	519,843	467,095	495,608	386,654	299,781	236,687	240,187	213,559
	(N.E.Ky.-Big Sandy	167,577	161,484	416,570	347,481	450,146	474,334	510,263	526,676	579,385	602,669	553,485	391,782	364,971	376,039	402,581
	(Hazard	242,430	601,449	637,601	718,655	770,452	678,646	765,057	787,799	799,538	722,592	736,734	757,904	668,632	581,691	487,747
	(Harlan	302,037	366,072	541,796	492,609	554,565	640,080	706,019	920,471	929,698	870,393	723,349	580,512	452,974	467,804	519,914
	(McRoberts	106,404	91,069	155,718	200,799	224,063	262,040	255,725	257,371	236,511	284,929	239,381	162,306	156,101	135,069	131,958
	(South Jellico	9,768	506	7,481	8,368	19,380	70,459	56,978	64,573	39,288	50,934	43,871	51,649	26,458	24,269	32,296
	(Clinch Valleys	9,934	26,611	59,003	44,609	43,116	43,079	50,181	71,118	66,893	75,597	76,715	80,784	74,844	74,690	62,286
	(Stonega	107,635	42,209	26,206	40,090	22,275	14,875	19,577	22,185	37,385	49,113	39,151	26,456	22,966	25,904	10,943
	(Clinchfield	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	3,384	2,810	5,034	10,228
	<b>TOTAL</b>	<b>2,199,254</b>	<b>2,669,825</b>	<b>3,340,475</b>	<b>3,969,598</b>	<b>4,755,308</b>	<b>5,127,390</b>	<b>5,209,176</b>	<b>5,764,069</b>	<b>5,833,623</b>	<b>5,936,429</b>	<b>5,056,177</b>	<b>3,964,533</b>	<b>3,526,364</b>	<b>3,451,847</b>	<b>3,419,700</b>
Southern Low Volatile	(Virginian	NF	NF	NF	NF	NF	53,498	224,680	310,105	310,635	284,051	272,239	254,454	191,566	131,168	209,798
	(New River	56,850	110,868	96,943	173,700	265,909	304,618	270,078	233,797	226,581	234,406	276,397	270,628	236,412	250,017	189,038
	(Pocahontas	338,458	301,511	340,707	390,164	436,328	453,322	405,702	409,293	447,854	529,384	433,422	308,286	297,911	337,089	348,781
	(Tug River	76,200	120,971	118,160	111,514	159,945	194,584	176,026	188,298	169,788	188,874	130,192	110,145	99,107	92,015	84,774
	<b>TOTAL</b>	<b>471,508</b>	<b>533,350</b>	<b>555,810</b>	<b>675,378</b>	<b>862,182</b>	<b>1,006,022</b>	<b>1,076,686</b>	<b>1,141,483</b>	<b>1,154,858</b>	<b>1,206,715</b>	<b>1,112,250</b>	<b>943,513</b>	<b>824,996</b>	<b>810,289</b>	<b>832,391</b>
Ohio	(Massillon	2,611	380	349	543	101	52	---	---	---	---	---	---	---	---	---
	(Middle	9,095	4,157	10,222	3,130	467	705	128	163	38	579	1,151	1,498	2,354	1,156	162
	(Ohio #8	165,503	100,625	71,158	89,218	90,072	79,585	81,125	22,064	32,675	55,550	56,029	47,815	44,264	42,973	25,127
	(Cambridge	10,155	2,379	4,763	7,091	3,500	445	---	---	---	---	292	1,274	421	684	122
	(Crooksville	47,151	6,998	17,753	7,526	2,510	757	421	210	1,217	2,291	7,278	10,884	5,159	10,259	4,415
	(Hocking	174,438	85,021	86,917	92,252	61,650	43,913	29,959	10,953	18,292	62,234	71,233	39,345	24,416	40,976	43,139
	(Shawnee	4,815	1,732	1,452	917	---	---	---	---	---	---	---	---	---	---	---
	(Jackson	51,996	11,704	35,465	14,949	5,959	1,821	534	---	700	3,029	7,663	6,705	3,763	5,838	6,635
	(Pomeroy	48,986	19,102	18,718	16,553	8,307	9,495	15,657	13,105	14,502	18,638	13,860	2,973	3,416	3,023	6,483
	<b>TOTAL</b>	<b>514,750</b>	<b>232,098</b>	<b>248,797</b>	<b>232,179</b>	<b>172,566</b>	<b>136,773</b>	<b>127,824</b>	<b>46,495</b>	<b>67,424</b>	<b>142,321</b>	<b>157,506</b>	<b>110,494</b>	<b>83,863</b>	<b>103,848</b>	<b>86,083</b>
<b>GRAND TOTALS</b>		<b>3,290,797</b>	<b>3,468,975</b>	<b>4,205,418</b>	<b>4,972,751</b>	<b>5,811,941</b>	<b>6,305,221</b>	<b>6,426,679</b>	<b>7,017,199</b>	<b>7,080,163</b>	<b>7,330,334</b>	<b>6,373,129</b>	<b>5,141,942</b>	<b>4,467,757</b>	<b>4,392,948</b>	<b>4,362,195</b>

Authority: Ohio Bureau of Coal Statistics



**1062**

## SHIPMENTS INTO OHIO, 1920 TO 1934 INCLUSIVE

D. Ex. 24-A

Origins	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
(Pittsburgh	4,747,355	3,693,009	4,294,322	6,701,567	5,397,189	4,413,269	5,145,549	4,229,267	5,422,803	6,092,278	4,962,657	3,653,497	2,865,932	2,297,167	2,616,482
(Freeport	797,718	447,839	529,191	1,075,660	406,615	973,455	682,378	249,069	467,346	676,169	579,076	672,937	351,376	499,138	953,952
(Butler-Mercer	63,372	26,660	145,926	53,093	18,102	47,415	37,501	57,128	27,495	7,945	3,767	1,335	2,255	1,071	5,690
(Connellsville	2,855,855	2,778,941	2,604,819	3,403,790	4,845,609	5,639,311	6,077,745	6,671,415	6,930,193	6,650,734	4,846,584	2,796,762	1,440,229	797,309	1,403,009
<b>Total</b>	<b>8,461,300</b>	<b>6,946,449</b>	<b>7,574,258</b>	<b>11,234,110</b>	<b>10,667,515</b>	<b>11,073,450</b>	<b>11,943,173</b>	<b>11,206,879</b>	<b>12,847,837</b>	<b>13,427,126</b>	<b>10,392,084</b>	<b>7,124,531</b>	<b>4,959,792</b>	<b>3,594,685</b>	<b>4,979,133</b>
<b>Fairmont</b>	<b>988,118</b>	<b>458,313</b>	<b>849,554</b>	<b>1,160,752</b>	<b>773,873</b>	<b>1,078,051</b>	<b>1,391,110</b>	<b>2,801,656</b>	<b>2,982,861</b>	<b>2,948,673</b>	<b>2,567,425</b>	<b>1,734,438</b>	<b>1,389,437</b>	<b>1,523,529</b>	<b>1,698,804</b>
(Kanawha	3,075,972	3,144,572	3,590,790	3,906,218	4,618,304	5,476,830	5,644,278	6,071,771	5,540,037	5,324,939	4,331,211	3,597,576	3,088,253	3,093,071	3,161,213
(Kenova	158,774	155,755	379,465	391,301	529,624	596,341	503,091	633,035	554,344	519,472	427,556	303,649	309,361	237,201	162,739
(Thacker	1,128,858	538,361	1,246,497	1,642,067	1,747,857	2,064,210	2,098,558	2,177,190	1,818,236	1,965,280	1,590,888	831,971	836,322	1,070,600	865,734
(N.E. Ky.-Big Sandy	1,937,758	804,595	1,898,950	2,279,388	2,249,708	2,444,456	2,478,704	1,729,293	1,411,480	1,136,842	854,073	723,697	714,914	917,461	917,461
(Hazard	849,505	1,374,119	1,419,252	1,624,840	1,545,954	1,548,786	1,954,636	1,575,659	1,634,137	1,716,887	1,478,467	1,478,073	1,350,052	1,208,815	1,081,544
(Harlan	748,733	850,358	1,354,618	1,213,889	1,043,206	1,507,640	1,735,829	2,114,730	2,137,409	1,941,277	1,227,921	675,524	600,378	849,443	964,398
(Cokosverts	662,382	418,349	566,395	553,165	591,067	868,529	1,027,310	926,225	706,986	593,244	420,294	304,432	249,144	186,968	263,343
(So. Jellico	46,901	21,837	138,784	97,644	67,329	129,465	118,136	144,801	154,616	112,083	105,631	86,699	91,995	56,653	67,247
(Climch Valleys	29,265	73,199	156,621	180,394	185,159	204,605	215,083	230,394	234,669	228,964	218,714	200,876	190,974	187,286	211,357
(Stonega	11,941	4,701	266,836	16,979	16,690	31,913	44,031	51,741	47,846	42,985	23,075	18,602	19,467	23,722	17,112
(Climchfield	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	13,537	56,963	84,661	90,156
<b>Total</b>	<b>8,650,089</b>	<b>7,385,846</b>	<b>11,018,238</b>	<b>11,905,382</b>	<b>12,594,898</b>	<b>14,869,775</b>	<b>15,819,656</b>	<b>16,045,040</b>	<b>14,557,573</b>	<b>13,886,611</b>	<b>10,960,590</b>	<b>8,365,012</b>	<b>7,516,608</b>	<b>7,743,337</b>	<b>7,802,904</b>
(Virginian	N.F.	N.F.	N.F.	N.F.	N.F.	120,096	365,275	495,929	512,092	511,081	470,940	378,481	291,255	340,748	365,582
(New River	201,385	237,565	425,216	522,940	614,701	728,824	799,879	885,638	819,747	837,678	817,479	762,005	668,595	740,767	710,253
(Pocahontas	1,190,384	1,215,586	1,962,078	2,017,021	1,928,987	2,313,729	2,578,588	2,373,936	2,712,158	3,085,755	2,016,154	1,402,013	1,061,818	1,450,519	1,609,936
(Tug River	231,185	275,391	445,488	551,156	564,492	772,516	831,911	948,297	853,798	901,236	823,673	773,996	704,040	896,643	819,659
<b>Total</b>	<b>1,622,954</b>	<b>1,728,542</b>	<b>2,802,722</b>	<b>3,091,117</b>	<b>3,108,190</b>	<b>3,935,165</b>	<b>4,375,653</b>	<b>4,703,800</b>	<b>4,897,795</b>	<b>5,335,750</b>	<b>4,128,246</b>	<b>3,316,497</b>	<b>2,725,708</b>	<b>3,428,677</b>	<b>3,505,430</b>
(Massillon	188,702	58,668	37,486	56,606	33,630	43,937	40,116	27,999	17,598	19,925	15,077	12,580	7,183	7,503	6,637
(Middle	2,968,270	1,655,868	1,836,758	2,050,377	1,433,343	1,690,440	1,498,013	1,003,876	892,779	1,073,311	1,015,062	1,119,727	1,097,324	1,446,696	1,238,746
(Ohio No. 8	5,090,053	4,361,632	4,203,282	5,368,435	5,168,060	5,620,996	5,699,717	3,191,755	2,774,604	3,283,430	3,104,256	3,308,934	2,707,291	4,048,935	3,801,268
(Cambridge	1,480,919	731,978	684,348	948,215	760,245	694,509	640,343	391,634	222,828	673,151	760,057	638,591	549,458	601,902	701,623
(Crooksville	1,113,681	386,435	510,897	724,354	495,722	341,520	385,766	213,117	214,714	227,149	226,239	292,409	150,257	268,057	300,909
(Hooking	3,430,112	2,168,309	1,638,930	2,518,855	1,926,911	1,530,622	1,583,366	855,113	816,523	1,741,112	1,728,799	1,498,339	680,858	1,104,792	1,375,918
(Shawnee	148,644	69,982	43,908	50,875	28,812	8,296	6,229	4,825	509	-	-	-	-	494	2,295
(Jackson	1,114,318	278,073	505,390	428,831	204,899	63,522	42,934	24,126	28,497	74,277	171,637	196,002	106,566	219,384	366,954
(Pomeroy	551,449	283,790	201,903	427,951	175,481	374,838	465,990	441,173	366,742	203,228	183,420	149,445	117,025	108,389	173,935
<b>Total</b>	<b>16,085,843</b>	<b>9,994,735</b>	<b>9,682,902</b>	<b>12,584,499</b>	<b>10,227,103</b>	<b>10,368,780</b>	<b>10,272,474</b>	<b>6,213,618</b>	<b>5,334,794</b>	<b>7,295,633</b>	<b>7,204,547</b>	<b>7,215,997</b>	<b>5,415,971</b>	<b>7,806,152</b>	<b>7,968,275</b>
<b>GRAND TOTAL</b>	<b>35,811,309</b>	<b>26,513,885</b>	<b>31,947,734</b>	<b>39,976,360</b>	<b>37,371,569</b>	<b>41,325,221</b>	<b>44,002,066</b>	<b>40,970,993</b>	<b>40,620,860</b>	<b>42,893,793</b>	<b>35,252,692</b>	<b>27,756,475</b>	<b>21,407,514</b>	<b>24,096,380</b>	<b>25,954,546</b>

Authority:- Ohio Bureau of Coal Statistics

**1063**

## SHIPMENTS INTO MICHIGAN, 1920 TO 1934 INCLUSIVE

D.Ex.24-B

	Origin	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
Western Penna.	(Pittsburgh	165,268	116,479	219,888	293,659	33,211	8,839	32,867	33,996	21,537	27,236	49,486	41,963	42,773	43,059	53,620
	(Freeport	184,270	43,233	68,081	221,963	54,435	72,421	84,207	184,266	47,899	189,253	146,037	62,911	7,119	38,287	93,344
	(Butler-Mercer	3,881	-	11,581	2,966	-	-	-	-	47	92	-	-	95	-	41
	(Connellsville	29,031	3,825	66,025	22,763	1,655	1,393	93	9,115	21,588	12,045	43,823	121,310	33,543	10,695	86,848
	Totals	382,453	198,537	365,575	541,351	89,321	82,656	117,167	227,377	91,071	228,626	239,316	226,184	83,560	92,011	233,853
Southern High Vol.	Fairmont	372,067	163,384	205,549	448,020	228,664	147,426	98,117	116,842	72,114	157,115	203,056	212,408	110,081	162,742	215,465
	(Kanawha	3,723,074	3,171,428	3,940,367	5,079,985	5,121,100	5,684,623	5,633,506	5,813,465	5,117,195	5,302,855	3,993,661	3,131,492	2,929,317	3,140,155	2,036,071
	(Kenova	53,467	49,603	189,974	240,881	342,017	329,836	310,915	475,345	451,665	442,758	376,297	233,784	236,881	217,139	179,360
	(Thacker	547,471	519,135	987,812	1,648,780	1,673,278	1,921,525	1,736,993	1,757,168	1,814,026	1,939,881	1,527,964	1,059,319	759,262	792,605	1,138,639
	(N.E. Ky. -Big Sandy	694,905	780,683	888,970	1,221,378	1,707,805	1,812,104	2,164,280	2,252,708	2,218,745	2,193,703	1,680,102	1,120,660	1,035,076	1,259,744	1,304,351
	(Hazard	587,762	798,104	896,613	1,262,309	1,268,152	1,156,316	1,289,236	1,271,051	1,231,267	1,197,230	1,108,701	973,397	933,106	882,796	913,655
	(Harlan	942,221	971,059	1,266,566	1,677,770	1,846,144	2,261,367	2,609,068	2,764,687	2,638,994	2,296,350	2,097,407	1,787,563	1,327,105	1,337,177	1,583,408
	(McRoberts	205,446	269,755	514,190	524,402	655,485	873,111	871,591	575,935	520,064	524,778	453,106	366,729	280,409	278,369	465,952
	(So. Jellico	17,817	4,892	56,123	84,058	73,443	74,832	115,250	139,526	-	-	71,772	-	36,173	36,392	43,167
	(Oakdale	N.F.	N.F.	14,106	2,040	1,167	107	N.F.	N.F.	114,365	136,049	N.F.	38,542	N.F.	N.F.	0
	(Clinch Valleys	20,225	18,605	88,785	119,716	92,748	74,326	105,720	112,699	184,637	229,202	151,962	113,784	99,534	91,176	99,525
	(Stonega	12,784	16,934	60,953	29,612	19,090	33,665	25,581	23,970	29,121	46,508	14,772	9,401	8,317	8,958	23,363
	(Clinchfield	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	1,528	26,896	14,962	36,989
	Totals	6,805,172	6,963,198	8,903,559	11,893,931	12,800,429	14,221,842	14,862,140	15,186,554	14,380,079	14,309,314	11,475,764	8,836,199	7,672,076	8,059,473	8,824,380
Southern Low Vol.	(Virginian	N.F.	N.F.	N.F.	N.F.	N.F.	96,615	233,508	350,893	454,625	437,906	397,674	360,150	282,913	349,669	431,390
	(New River	107,915	142,639	215,624	393,559	515,668	626,966	586,900	654,870	732,821	784,725	673,496	561,749	534,546	528,772	609,047
	(Pocahontas	296,323	525,363	722,522	743,771	827,680	1,025,522	1,030,350	967,626	1,136,031	1,351,107	1,112,291	908,568	901,339	966,482	1,174,302
	(Tug River	409,368	336,671	436,975	768,948	731,434	780,844	1,057,232	1,036,148	1,109,904	1,218,895	1,075,048	782,603	803,368	794,311	762,214
	Totals	813,606	1,004,673	1,375,121	1,906,278	2,074,832	2,529,947	2,907,990	3,009,537	3,433,381	3,792,633	3,258,709	2,613,070	2,522,166	2,639,234	2,976,953
Ohio	(Massillon	1,489	781	187	495	N.F.	N.F.	N.F.	31	N.F.	N.F.	50	N.F.	N.F.	N.F.	0
	(Middle	48,374	8,837	58,237	12,883	2,683	3,059	3,081	951	162	3,881	22,417	23,865	20,704	11,761	29,811
	(Ohio No. 8	616,098	279,765	280,825	376,106	226,631	164,248	252,677	98,298	90,005	243,788	431,831	467,912	582,628	709,691	594,455
	(Cambridge	289,094	151,774	117,045	136,985	20,479	2,223	4,761	3,733	828	1,216	13,910	12,654	10,703	2,625	8,157
	(Crooksville	317,839	56,695	141,691	90,606	22,150	15,466	28,586	2,197	6,244	16,845	31,760	50,666	18,598	39,987	59,840
	(Hoeking	1,438,110	709,851	755,957	925,407	483,632	277,672	352,104	92,193	133,529	421,458	418,220	365,992	226,934	402,226	537,799
	(Shawnee	35,872	7,095	14,951	2,387	762	964	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	N.F.	0
	(Jackson	484,778	47,103	128,107	111,161	43,050	10,560	10,374	987	1,751	10,771	47,341	85,322	17,482	29,424	94,294
	(Pomeroy	386,940	100,122	158,606	162,665	35,694	70,211	82,301	59,655	48,718	52,093	46,595	45,317	37,442	59,308	90,184
	Totals	3,621,594	1,362,023	1,615,606	1,818,695	835,041	544,403	733,844	258,045	281,237	750,052	1,012,114	1,051,726	914,491	1,255,022	1,414,540
GRAND TOTAL		11,994,892	9,696,815	12,495,110	16,608,275	16,028,327	17,526,274	18,719,298	18,828,355	18,258,182	19,237,770	16,181,989	12,939,589	11,332,374	12,208,512	13,665,191

Authority:- Ohio Bureau of Coal Statistics.

**1064**

## TEND OF LAKE CARGO SHIPMENTS 1920 TO 1931 INCLUSIVE

D.Ex. 24-C

	Origins	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
Western Penna. High Vol.	(Pittsburgh	6,203,444	5,907,489	4,002,214	7,978,024	3,249,241	2,106,567	2,506,752	2,547,736	4,293,850	5,177,201	5,511,341	4,687,932	4,328,005	5,224,628	6,132,415
	(Connellsville	N.F.	N.F.	374,936	468,847	548,329	367,420	598,494	903,917	1,387,791	1,446,984	2,090,224	1,710,400	1,812,020	1,343,907	1,939,178
	(Northern Pa.	1,044,579	723,819	832,339	1,082,095	482,481	5,096	825,481	145,497	941,325	1,250,258	939,834	873,240	717,327	856,187	1,324,754
	Total	7,248,023	6,631,308	5,209,484	9,528,966	4,280,051	2,479,063	3,930,727	3,597,150	6,622,966	7,874,443	8,541,399	7,271,572	6,857,352	7,424,722	9,396,347
Ohio High Vol.	(Northern Ohio	453,829	208,994	194,608	361,483	57,327	15,724	29,724	- -	4,094	27,725	33,313	62,301	789	- -	- -
	(Ohio No. 8	3,799,023	3,678,554	1,287,123	3,768,377	2,846,721	1,314,628	1,140,440	298,358	1,021,643	2,414,634	2,624,199	2,543,306	1,075,224	1,704,593	1,754,808
	(Cambridge	778,776	981,997	61,736	952,067	1,005,002	4,382	68,181	109	- -	554,614	630,446	335,001	320,896	313,242	262,959
	(Hooking (*)	2,575,086	668,577	1,288,269	920,011	90,119	115,496	173,986	46,367	25,955	202,123	75,137	37,999	14,467	78,838	122,831
	Total	7,606,714	5,538,122	3,385,736	5,941,938	3,999,169	1,450,230	1,412,331	344,834	1,051,692	3,199,096	3,363,095	2,978,607	1,411,376	2,096,673	2,140,598
	Moundsville	114,414	328,952	186,784	634,888	519,040	760,621	326,917	728,188	894,740	706,228	447,152	124,772	282,939	278,248	349,668
	Fairmont	1,169,627	685,562	1,183,165	2,534,247	883,565	1,622,387	2,141,600	3,877,248	2,705,013	1,379,226	1,034,821	865,491	905,460	940,718	816,885
	Total	1,284,041	1,014,514	1,369,969	3,168,135	1,402,605	2,383,008	2,468,517	4,605,436	3,599,753	2,085,454	1,481,873	990,263	1,188,399	1,218,966	1,166,553
Southern High Volatile	(Kenova-Thacker	143,645	190,911	761,962	382,961	977,870	1,794,504	1,595,612	2,099,995	1,827,924	2,374,998	1,946,615	2,249,543	1,396,942	1,794,270	2,076,694
	(Kanawha	3,020,946	3,687,136	2,671,251	4,581,564	5,755,085	7,803,321	7,549,264	9,457,235	7,162,015	7,640,903	7,108,607	5,277,520	4,540,848	5,464,943	5,600,881
	(East Kentucky	1,375,323	2,624,194	3,091,089	3,297,323	3,514,305	6,606,912	6,933,593	7,178,584	6,652,035	6,814,482	6,661,271	5,023,597	4,131,354	5,400,061	6,120,868
	(Virginia	92	- -	43,208	723	55,450	98,877	59,930	104,520	143,631	72,168	35,756	184,972	107,668	157,514	197,126
	(Tennessee	185	3,731	25,667	- -	- -	17,564	82,630	43,574	42,074	43,043	46,118	72,606	9,760	22,678	101,043
	Total	4,540,191	6,505,972	6,593,177	8,262,571	10,302,710	16,321,178	16,221,029	18,883,908	15,827,879	16,945,594	15,798,367	12,808,236	10,186,572	12,839,475	16,096,612
Northern Low Volatile	(Clearfield	- -	- -	- -	- -	- -	- -	- -	- -	87,444	- -	440,579	610,450	704,969	1,208,131	1,187,950
	(Altoona-Meyersdale	22,410	30,182	81,420	31,315	1,605	1,398	1,875	10,475	- -	170,773	31,655	- -	2,613	2,549	4,252
	(Cumb.-Piedmont	21,459	4,352	676	796	5,146	4,023	3,030	- -	2,903	3,178	3,596	28,680	10,739	18,327	13,883
	Total	43,869	34,534	82,096	32,111	6,751	5,421	4,905	10,475	90,347	173,951	475,830	639,130	718,321	1,229,007	1,206,085
Southern Low Volatile	(New River	233,633	208,890	271,630	448,566	353,049	396,221	431,300	712,787	620,492	801,781	1,195,782	1,339,129	1,210,316	1,251,241	1,658,779
	(Virginian	N.F.	N.F.	N.F.	N.F.	N.F.	152,517	(A)	599,870	756,192	581,132	(B)	(B)	(B)	(B)	(B)
	(Pocahontas-Tug River	1,434,183	2,430,559	1,665,556	2,445,507	2,630,656	3,143,185	3,685,280	4,096,938	4,832,800	6,271,798	5,983,777	4,368,352	2,991,055	5,291,269	5,204,562
	Total	1,667,816	2,639,449	1,937,186	2,894,073	2,983,705	3,691,923	4,116,580	5,409,595	6,209,484	7,654,711	7,179,559	5,727,481	4,201,371	6,542,510	6,863,341
	GRAND TOTAL	22,390,654	22,363,899	18,577,653	29,828,784	22,974,991	26,330,843	28,154,089	32,851,398	33,402,121	32,933,249	36,839,923	30,415,291	24,563,391	31,361,353	34,869,536

(\*) - Includes Hooking, Crooksville, Shawnee, Pomeroy, and Jackson Districts.

(A) - Included in Pocahontas-Tug River Figures.

(B) - Divided as between New River and Pocahontas-Tug River.

Authority: Ohio Bureau of Coal Statistics

**1065**

## TREND OF ALL TIDEWATER SHIPMENTS SINCE 1920

(Tons)

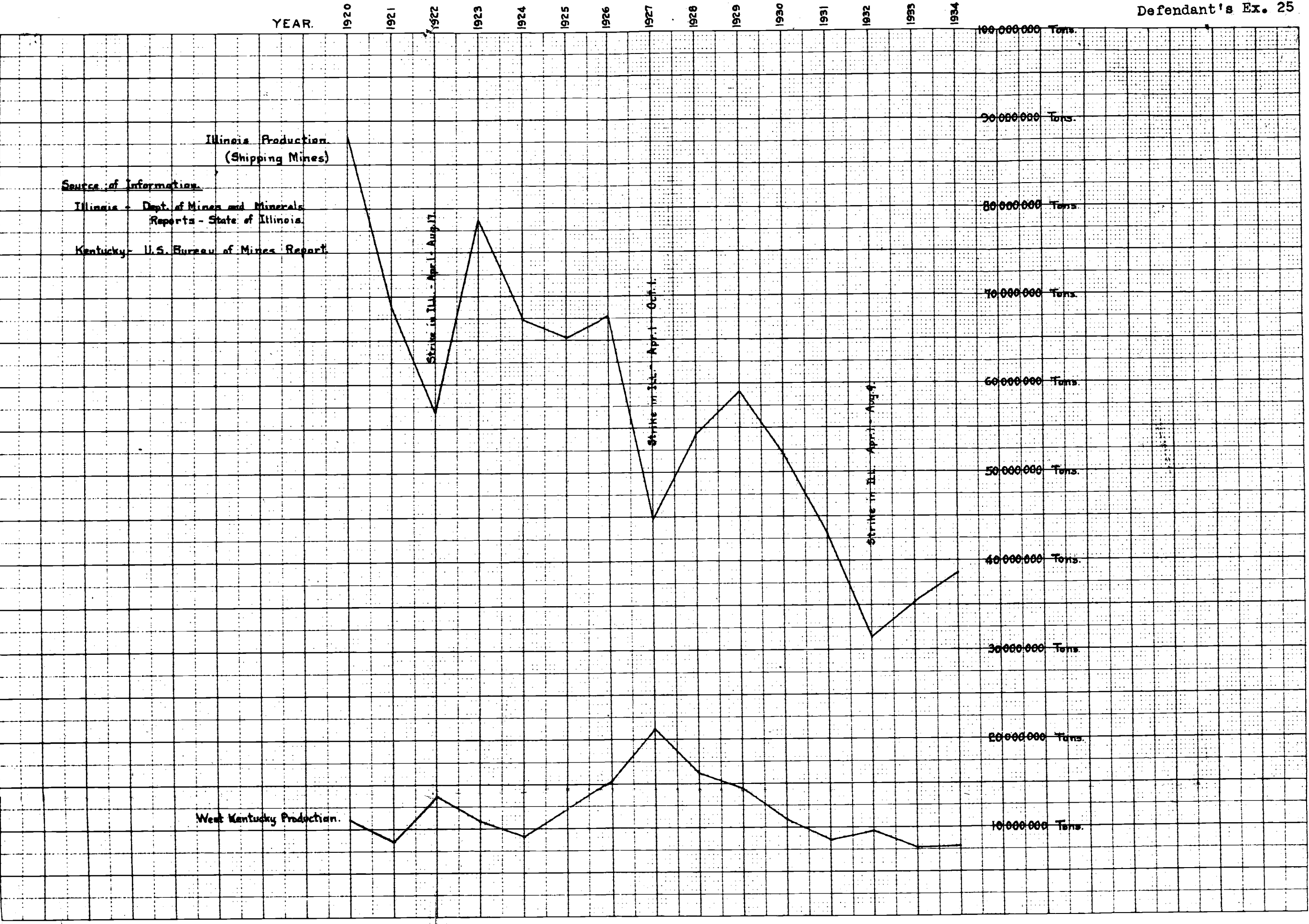
D.Ex. 24-D

	Origins	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
Northern Low Vol.	(Clearfield	11,081,121	8,521,444	5,121,579	8,872,089	7,018,726	6,595,233	8,270,203	5,949,904	5,502,310	6,153,829	7,153,580	6,395,262	5,450,981	5,078,172	5,597,909
	(Cumb.-Pied.-Meyersdale.	4,549,220	2,692,581	2,074,514	2,441,732	2,080,626	3,045,127	3,767,240	3,842,560	4,212,580	4,046,346	3,450,696	3,019,609	2,065,070	1,796,338	1,904,607
	Total	15,630,341	11,214,025	7,196,093	11,313,821	9,099,352	9,640,360	12,037,443	9,792,464	9,714,890	10,200,175	10,604,276	9,414,871	7,516,051	6,874,510	7,502,516
Northern High Vol.	(Greensburg	236,795	201,151	95,822	90,379	265,046	197,406	329,233	186,469	411,580	502,652	491,128	367,612	224,892	304,327	186,360
	(Pittsburgh	498,245	36,604	8,963	41,556	110	12,653	116,262	2,956	-	-	3,271	1,786	4,782	92,775)	1,730,656
	(Westmd.-Northern W.Va. (Other High Vol.(North)	7,469,134 1,922,086	5,219,459 908,519	2,531,378 447,581	5,122,619 1,074,712	3,435,075 543,768	3,650,180 578,354	8,395,714 2,457,504	3,911,425 148,086	2,157,304 718,591	2,425,269 725,084	2,574,708 168,355	1,778,264 233,045	1,198,876 185,706	1,265,214) 122,367	86,751
	Total	10,126,260	6,365,733	3,083,744	6,329,266	4,243,999	4,438,593	11,298,713	4,248,936	3,287,475	3,653,025	3,237,462	2,380,707	1,614,256	1,784,683	2,003,737
Southern High Vol.	(Clinchfield	477,827	154,954	191,020	216,271	138,750	201,250	539,129	184,146	64,083	31,054	26,320	12,896	9,916	12,085	14,279
	(Clinch Valley	914,526	412,324	288,904	180,583	66,713	47,703	375,624	27,563	181,261	128,558	70,621	19,879	16,848	2,231	25,017
	(N. E. Ky.	10,603	169,805	71,760	75,394	4,138	522,689	1,199,321	846,126	670,899	670,248	735,023	745,066	619,596	442,124	441,891
	(East. Tenn.	53,171	1,559	-	2,262	-	-	706	-	-	-	-	-	-	1,309	-
	(Kenawha	3,641,176	1,907,780	905,105	1,927,778	1,756,853	2,436,389	4,936,138	2,320,595	1,901,771	2,289,995	2,519,935	3,257,283	2,953,538	2,837,783	2,737,149
	(Kenova	1,416	2,746	7,340	20,157	12,798	5,639	592,050	23,245	15,973	28,793	47,710	28,000	12,592	7,793	9,377
	(Stonega-Norton	445,674	293,153	627,553	1,141,746	877,542	896,000	1,165,696	974,907	1,074,656	1,426,867	1,080,272	842,350	653,955	802,044	475,246
	(S. W. Virginia	473,609	24,005	33,723	41,578	16,150	14,256	215,810	83,785	102,789	121,862	105,345	94,581	26,511	27,238	65,733
	(Thacker	532,055	436,022	156,239	91,955	79,253	121,008	1,048,410	155,716	62,187	152,819	122,794	47,150	65,555	117,618	109,006
	Total	6,550,057	3,402,348	2,283,644	3,697,724	2,952,197	4,244,934	10,072,684	4,616,083	4,073,819	4,850,196	4,708,020	5,047,205	4,358,511	4,050,225	3,877,698
Southern Low Vol.	(New River	3,672,203	2,457,722	2,290,356	2,745,990	2,933,556	4,244,415	4,276,203	4,054,408	4,762,598	4,952,957	5,068,486	4,844,148	3,806,675	4,739,039	5,136,836
	(Pocahontas	5,586,170	4,381,061	4,985,418	3,912,424	4,792,306	5,088,032	6,382,969	4,933,051	4,381,347	5,021,353	4,720,950	4,220,173	3,470,050	3,511,983	3,622,070
	(Tug River	950,566	1,289,036	850,092	451,992	810,598	863,969	1,254,179	840,168	782,052	843,746	907,007	661,166	536,661	604,644	792,394
	(Virginian	5,505,403	4,198,396	4,732,535	5,048,788	4,825,809	4,625,892	6,083,374	5,299,366	3,996,431	4,452,575	3,948,882	3,379,472	2,606,176	2,653,446	2,726,331
	Total	15,714,342	12,326,215	12,858,401	12,159,194	13,362,268	14,822,308	17,996,725	15,126,993	13,922,428	15,270,631	14,645,325	13,104,959	10,419,562	11,509,112	12,279,631
GRAND TOTAL		48,021,000	33,308,321	25,421,882	33,500,005	29,657,816	33,146,195	51,405,765	33,784,476	30,998,612	33,974,027	33,195,083	29,947,742	23,908,380	24,218,550	25,663,582

Authority:- Tidewater Bituminous Coal Statistical Bureau

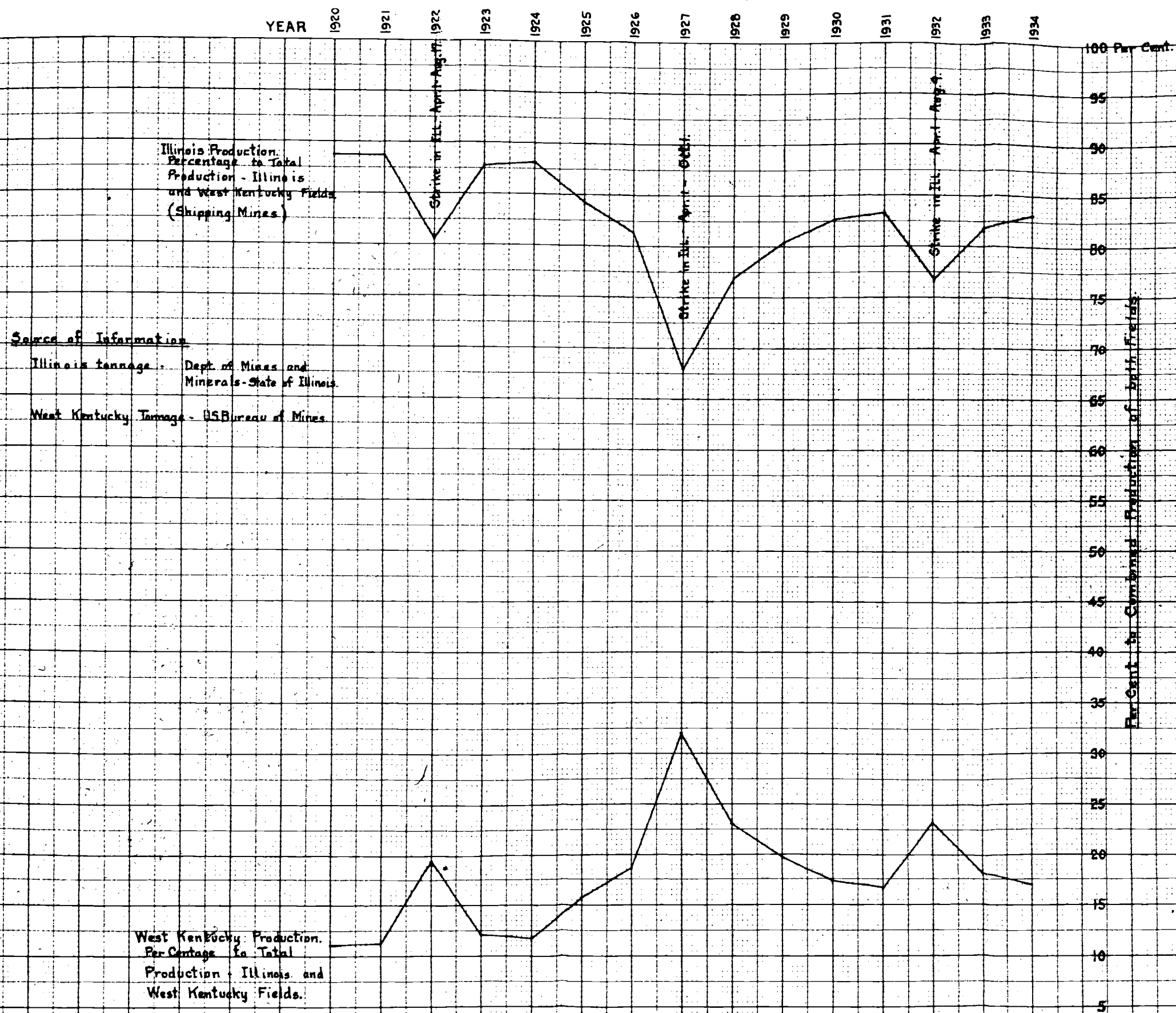


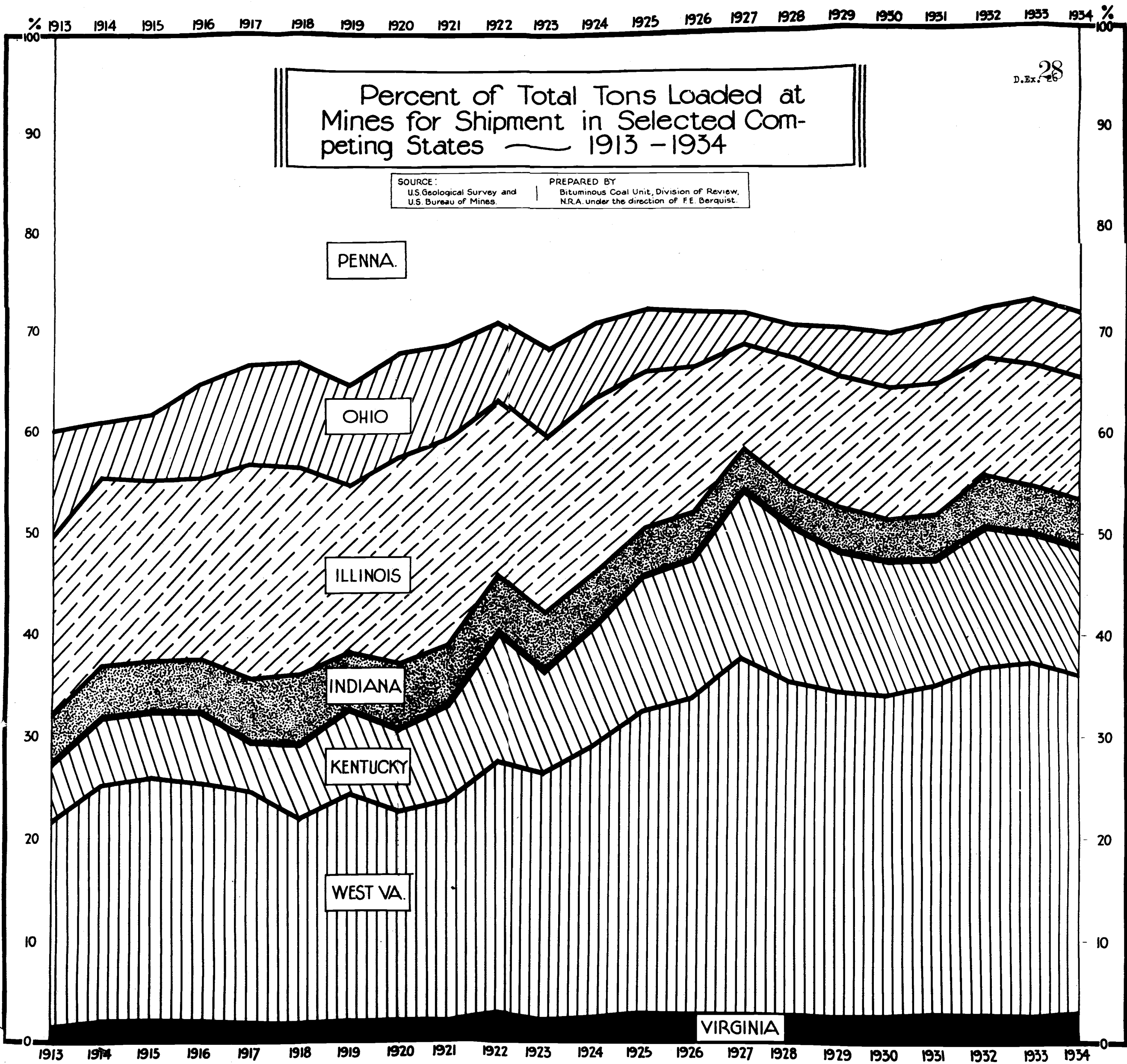
**1066**



**1067**

## Defendant's Exhibit 26





**1069**

## BITUMINOUS COAL LOADED AT MINES FOR SHIPMENT FOR SELECTED STATES, AND PERCENT OF TOTAL

D.Ex. 28a

TONNAGE OF THESE STATES LOADED IN EACH OF THE COMPONENT STATES. 1913 - 1934

	<u>Pennsylvania</u>		<u>Ohio</u>		<u>Illinois</u>		<u>Indiana</u>		<u>Kentucky</u>		<u>West Virginia</u>		<u>Virginia</u>		<u>Total</u>
	Tons	Percent of	Tons	Percent of	Tons	Percent of	Tons	Percent of	Tons	Percent of	Tons	Percent of	Tons	Percent of	Tons
	Shipped	group.	Shipped	group.	Shipped	group.	Shipped	group.	Shipped	group.	Shipped	group.	Shipped	group.	
1913	127,912,594	39.9	33,525,096	10.5	55,779,351	17.4	16,034,285	5.0	18,029,826	5.6	64,058,318	20.0	5,148,433	1.6	320,487,903
1914	114,876,895	39.2	16,397,457	5.6	53,583,390	18.3	15,497,998	5.3	18,896,135	6.5	67,024,189	22.9	6,438,133	2.2	292,714,197
1915	119,176,343	38.5	20,051,585	6.5	54,826,393	17.7	16,033,039	5.2	19,821,392	6.4	72,956,241	23.5	6,948,235	2.2	309,613,228
1916	123,181,649	35.6	31,995,913	9.2	61,486,342	17.8	18,839,568	5.4	23,472,421	6.8	79,760,681	23.0	7,464,797	2.2	346,201,371
1917	128,959,943	33.7	37,462,479	9.8	80,283,345	20.9	24,991,177	6.5	25,671,298	6.7	77,996,698	20.4	7,652,143	2.0	383,017,083
1918	137,469,982	33.4	42,888,610	10.4	83,268,864	20.2	28,961,651	7.1	29,350,941	7.1	81,579,916	19.8	8,143,000	2.0	411,662,964
1919	120,676,950	35.7	33,054,103	9.8	55,540,051	16.4	19,423,744	5.8	27,907,773	8.3	73,672,527	21.8	7,501,205	2.2	337,776,353
1920	134,382,063	32.6	41,757,891	10.2	82,510,029	20.0	27,367,568	6.7	33,334,161	8.1	83,199,005	20.2	9,219,622	2.2	411,770,339
1921	102,025,340	31.8	29,788,393	9.3	64,174,112	20.0	19,116,259	6.0	30,096,762	9.4	68,655,196	21.4	6,818,178	2.1	320,674,240
1922	93,493,508	29.7	24,125,947	7.7	53,604,937	17.0	17,960,212	5.7	40,086,740	12.7	75,895,796	24.1	9,597,715	3.1	314,764,855
1923	138,036,176	32.2	37,182,218	8.7	73,784,367	17.2	24,860,445	5.8	43,043,477	10.0	101,892,706	23.7	10,283,158	2.4	429,082,547
1924	110,240,821	29.6	27,404,951	7.4	63,689,920	17.1	20,338,416	5.5	43,683,182	11.7	97,169,314	26.1	9,756,162	2.6	372,282,766
1925	114,456,238	28.2	24,930,193	6.1	62,712,422	15.4	20,253,156	5.0	53,721,081	13.2	118,191,674	29.1	12,032,321	3.0	406,297,085
1926	128,338,782	28.3	24,871,074	5.5	64,611,578	14.3	22,020,268	4.9	61,291,208	13.5	138,359,940	30.5	13,381,511	3.0	452,874,361
1927	116,025,187	28.4	13,144,135	3.2	42,757,667	10.4	16,754,142	4.1	67,579,996	16.5	140,536,113	34.4	12,234,331	3.0	409,031,571
1928	117,785,042	29.6	12,786,442	3.2	51,513,409	12.9	15,488,382	3.9	60,454,706	15.2	128,671,064	32.3	11,371,792	2.9	398,070,837
1929	127,064,532	29.8	20,840,851	4.9	55,712,372	13.0	17,387,599	4.1	59,125,101	13.9	134,241,631	31.5	12,119,712	2.8	426,491,798
1930	113,885,163	30.3	20,132,937	5.4	48,922,279	13.0	15,235,765	4.0	50,011,859	13.3	117,480,773	31.2	10,414,384	2.8	376,083,160
1931	89,830,912	29.2	18,535,771	6.0	39,957,676	13.0	13,135,525	4.3	38,834,905	12.6	98,316,214	31.9	9,392,255	3.0	308,003,258
1932	68,022,893	27.7	11,972,845	4.9	28,793,563	11.7	12,186,044	5.0	34,229,444	13.9	82,952,472	33.8	7,461,381	3.0	245,618,642
1933	71,326,491	26.7	17,248,755	6.5	31,981,599	12.0	12,411,984	4.6	35,114,331	13.1	91,328,937	34.2	7,892,547	2.9	267,304,644
1934	80,696,259	28.0	* 18,362,000	6.4	* 34,974,000	12.1	* 13,368,000	4.6	37,283,960	12.9	94,775,558	32.9	9,058,264	3.1	288,518,041

\* Estimated on basis of percent that total shipments were of total production in 1933

Source: U. S. Geological Survey and U. S. Bureau of Mines.

Prepared by Bituminous Coal Unit  
Division of Review, M. R. A.  
under direction of F. E. Benquist.

SHIPMENTS OF BITUMINOUS COAL TO TIDEWATER, 1920 to 1934 INCLUSIVE  
(tonnage figures represent thousands of net tons)

Code authority districts	1920		1921		1922		1923		1924		1925		1926		1927		1928		1929		1930		1931		1932		1933		1934	
	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total
DIVISION NO. 1																														
Eastern Sub Division:																														
Central Pennsylvania 1/	13,037	24.24	9,680	25.94	5,895	20.71	10,446	27.84	8,061	24.27	7,613	20.51	9,847	17.10	6,678	17.65	6,751	19.45	7,470	19.63	8,054	21.66	7,286	21.76	6,160	23.00	5,727	21.11	6,289	21.88
Somerset 2/	5,095	9.47	3,328	8.91	2,378	8.35	2,735	7.29	2,330	7.01	3,411	9.19	4,220	7.33	4,305	11.38	4,718	13.58	4,532	11.91	3,865	10.40	3,399	10.15	2,325	8.69	2,013	7.42	2,144	7.46
Maryland - Upper Potomac 3/)	18,132	33.71	13,008	34.85	8,273	29.06	13,181	35.13	10,391	31.28	11,024	29.70	14,067	24.43	10,983	29.03	11,469	33.03	12,002	31.54	11,919	32.06	10,685	31.91	8,485	31.69	7,740	28.53	8,433	29.34
Total Eastern Sub Division																														
Western Pennsylvania Sub Division 4/ )																														
Ohio Sub Division:																														
Ohio - all	10,715	19.92	6,681	17.90	3,241	11.38	6,580	17.54	4,553	13.71	4,745	12.78	12,069	20.97	4,744	12.54	3,093	8.91	3,513	9.23	3,584	9.64	2,526	7.54	1,741	6.50	1,958	7.22	2,214	7.70
Panhandle of West Virginia 5/ )																														
Michigan - all																														
Total Ohio Sub Division																														
Northern West Virginia 6/ )																														
Southern - Low Volatile 7/	17,597	32.72	13,806	36.99	14,401	50.58	13,618	36.29	14,966	45.05	16,601	44.72	20,826	36.17	16,942	44.77	15,593	44.92	17,103	44.95	16,403	44.12	14,678	43.83	11,670	43.58	12,892	47.53	13,745	47.82
Southern - High Volatile 8/	7,340	13.65	3,828	10.26	2,558	8.98	4,142	11.04	3,307	9.96	4,754	12.80	10,612	18.43	5,170	13.66	4,563	13.14	5,432	14.28	5,273	14.18	5,597	16.72	4,882	18.23	4,536	16.72	4,351	15.14
Western Kentucky 9/	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
GRAND TOTAL	53,784	100.00	37,323	100.00	28,473	100.00	37,521	100.00	33,217	100.00	37,124	100.00	57,574	100.00	37,839	100.00	34,718	100.00	38,899	100.00	37,179	100.00	33,486	100.00	26,778	100.00	27,126	100.00	28,743	100.00

SOURCE: United States Bureau of Mines.

1/ Includes U. S. Coal Commission Fields No. 6 Blossburg; 7 Broad Top; 9abc Central Pennsylvania.

2/ Includes U. S. Coal Commission Field No. 8 Somerset.

3/ Includes U. S. Coal Commission Fields No. 10, Maryland-Potomac (or Maryland plus Grant, Mineral and Tucker Counties, West Virginia).

4/ Includes U. S. Coal Commission Fields No. 1 Pittsburgh; 2 Connellsville; 3 Westmoreland-Ligonier; 4ab Freeport; 5 Butler-Mercer.

5/ Includes Brooke, Hancock, Marshall and Ohio Counties in West Virginia.

6/ Includes Monongalia, Preston, Marion, Harrison, Taylor, Lewis, Barbour, Gilmer, Upshur, Randolph, Braxton, and Webster Counties, and Nicholas County on Baltimore and Ohio Railroad (or U. S. Coal Commission Fields No. 11 Fairmont and No. 24abc, except Clay and Kanawha Counties).

7/ Includes U. S. Coal Commission Fields No. 17 Tag River; 18 Pocahontas; 19 Winding Gulf; 20 New River; 27 Virginia Anthracite; 28 Richmond Basin; 92 North Carolina.

8/ Includes mines in Clay and Kanawha Counties in U. S. Coal Commission Fields No. 24abc; 13 Mason County; 14 Putnam County; 15 Kenova; 16 Thacker; 21 Kanawha; 22 Coal River; 23 Logan; 25 Southwestern Virginia; 26 Clinch Valley; 36 Northeastern Kentucky; 37 Hazard; 38 Harlan; 39 Southern Appalachian 40 Jellico; 43 Ventress; and northern part of No. 42, namely mines in Anderson, Morgan, and Roane Counties and Cumberland County except on the Nashville, Chattanooga and St. Louis Railroad. \*This includes all high volatile districts of Southern West Virginia, Eastern Kentucky, Virginia, and Northern Tennessee.).

9/ Includes U. S. Coal Commission Field No. 41 Western Kentucky.

Prepared by Bituminous Coal Unit  
Division of Review, N.R.A.  
Under Direction of F. E. Berquist



**1071**

## SHIPMENTS OF BITUMINOUS COAL TO LAKE ERIE, 1920 to 1934 INCLUSIVE. (Cargo coal only) a-1

(Tonnage figures represent thousands of net tons)

Code authority districts.	1920		1921		1922		1923		1924		1925		1926		1927		1928		1929		1930		1931		1932		1933		1934	
	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total
DIVISION NO. 1																														
Eastern Sub Division:																														
Central Pennsylvania 1/	{ 22	0.10	{ 30	0.13	{ 81	0.44	{ 31	0.11	{ 2	0.01	{ 1	--	{ 2	0.01	{ 11	0.03	87	0.26	171	0.45	441	1.20	610	2.01	705	2.87	1,208	3.85	1,192	3.42
Somerset 2/																	--	--	--	--	--	--	--	--	3	0.01	3	0.01	--	--
Maryland - Upper Potomac 3/	22	0.10	5	0.02	1	--	1	--	5	0.02	4	0.02	3	0.01	--	--	3	0.01	3	0.01	3	0.01	29	0.09	10	0.04	18	0.06	14	0.04
Total Eastern Division	44	0.20	35	0.15	82	0.44	32	0.11	7	0.03	5	0.02	5	0.02	11	0.03	90	0.27	174	0.46	444	1.21	639	2.10	718	2.92	1,229	3.92	1,206	3.46
Western Pennsylvania Sub Division 4/	7,248	32.37	6,631	29.65	5,210	28.04	9,529	31.93	4,280	18.63	2,479	9.42	3,930	13.96	3,597	10.95	6,623	19.83	7,874	20.76	8,573	23.27	7,272	23.91	6,857	27.92	7,425	23.68	9,396	26.95
Ohio Sub Division:																														
Ohio - all	7,607	33.97	5,538	24.76	3,386	18.22	5,953	19.95	3,999	17.41	1,450	5.51	1,412	5.02	345	1.05	1,052	3.15	3,199	8.43	3,363	9.13	2,978	9.79	1,411	5.75	2,097	6.69	2,141	6.14
Panhandle of West Virginia 5/	(a)		(a)		(a)		(a)		(a)		761	2.89	327	1.16	728	2.22	895	2.68	706	1.86	447	1.21	125	0.41	283	1.15	278	0.89	350	1.00
Michigan - all	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
Total Ohio Sub Division	7,607	33.97	5,538	24.76	3,386	18.22	5,953	19.95	3,999	17.41	2,211	8.40	1,739	6.18	1,073	3.27	1,947	5.83	3,905	10.29	3,810	10.34	3,103	10.20	1,694	6.90	2,375	7.58	2,491	7.14
Northern West Virginia 6/	1,284		1,015	4.54	1,370	7.38	3,169	10.62	1,402	6.10	1,623	6.16	2,142	7.60	3,877	11.80	2,705	8.10	1,379	3.64	1,035	2.81	866	2.85	906	3.69	941	3.00	817	2.34
Southern - Low Volatile 7/	1,668	7.45	2,639	11.80	1,937	10.43	2,894	9.70	2,984	12.99	3,692	14.02	4,117	14.62	5,410	16.47	6,209	18.59	7,655	20.18	7,181	19.49	5,727	18.83	4,201	17.10	6,542	20.87	6,863	19.68
Southern - High Volatile 8/	4,540	20.28	6,506	29.10	6,593	35.49	8,263	27.69	10,303	44.84	16,321	61.98	16,226	57.62	18,884	57.48	15,828	47.38	16,946	44.67	15,797	42.88	12,808	42.11	10,187	41.47	12,839	40.95	14,097	40.43
Western Kentucky 9/	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
TOTAL CARGO COAL	22,391	100.00	22,364	100.00	18,578	100.00	29,840	100.00	22,975	100.00	26,331	100.00	28,159	100.00	32,852	100.00	33,402	100.00	37,933	100.00	36,840	100.00	30,415	100.00	24,563	100.00	31,351	100.00	34,870	100.00
TOTAL VESSEL FUEL							1,348			1,532			1,581		1,451		1,364		1,451		1,321		972		610		982		1,102	

SOURCE: United States Bureau of Mines.

a-1 Courtesy of Ohio Bureau of Coal Statistics for years 1920 to 1923 inclusive. Courtesy of Ore and Coal Exchange for years 1924 to 1934 inclusive.

# Includes Lake coal originating on P.R.R. and P. &amp; W. Va. in Panhandle of West Virginia. ## Includes only Lake coal originating on B. &amp; O. in Panhandle of West Virginia. (a) Moundsville District on B. &amp; O. included in Northern West Virginia.

1/ Includes U. S. Coal Commission Fields No. 6 Blossburg; 7 Broad Top; 9abc Central Pennsylvania.

2/ Includes U. S. Coal Commission Field No. 8 Somerset.

3/ Includes U. S. Coal Commission Fields No. 10, Maryland-Potomac (or Maryland plus Grant, Mineral and Tucker Counties, West Virginia).

4/ Includes U. S. Coal Commission Fields No. 1 Pittsburgh; 2 Connellsville; 3 Westmoreland-Ligonier; 4ab Freeport; 5 Butler-Mercer.

5/ Includes Brooke, Hancock, Marshall and Ohio Counties in West Virginia.

6/ Includes Monongalia, Preston, Marion, Harrison, Taylor, Lewis, Barbour, Gilmer, Upshur, Randolph, Braxton, and Webster Counties, and Nichols County on Baltimore and Ohio Railroad (or U. S. Coal Commission Fields No. 11 Fairmont and No. 24abc, except Clay and Kanawha Counties).

7/ Includes U. S. Coal Commission Fields No. 17 Tug River; 18 Pocahontas; 19 Winding Gulf; 20 New River; 27 Virginia Anthracite; 28 Richmond Basin; 92 North Carolina.

8/ Includes mines in Clay and Kanawha Counties in U. S. Coal Commission Fields No. 24abc; 13 Mason County; 14 Putnam County; 15 Kenova; 16 Thacker; 21 Kanawha; 22 Coal River; 23 Logan; 25 Southwestern Virginia; 26 Clinch Valley; 36 Northeastern Kentucky; 37 Hazard; 38 Harlan; 39 Southern Appalachian 40 Jellico; 43 Pentress; and northern part of No. 42, namely mines in Anderson, Morgan, and Roane Counties and Cumberland County except on the Nashville, Chattanooga and St. Louis Railroad. (This includes all high volatile districts of Southern West Virginia, Eastern Kentucky, Virginia, and Northern Tennessee.).

9/ Includes U. S. Coal Commission Field No. 41 Western Kentucky.

Prepared by Bituminous Coal Unit  
Division of Review, N.R.A.  
Under Direction of F. E. Berquist

**1072**

**SHIPMENTS OF WESTBOUND COAL FROM THE APPLACHIANS AND FROM ILLINOIS, INDIANA, AND WESTERN KENTUCKY. a-1**  
(Tonnage figures represent thousands of net tons)

Code authority districts	1920		1921		1922		1923		1924		1925		1926		1927		1928		1929		1930		1931		1932		1933		1934	
	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total	Net Tons	% of Total
<b>DIVISION NO. 1</b>																														
<b>Eastern Sub Division:</b>																														
Central Pennsylvania 1/	175	0.24	100	0.17	268	0.39	198	0.13	152	0.11	189	0.12	191	0.11	196	0.12	256	0.16	178	0.11	172	0.13	133	0.13	107	0.12	114	0.13	1,379	1.37
Somerset 2/	310	0.42	97	0.16	134	0.20	170	0.11	143	0.10	149	0.10	195	0.12	152	0.10	184	0.12	239	0.15	360	0.26	279	0.26	135	0.15	163	0.18	198	0.20
Maryland-Upper Potomac 3/	90	0.12	39	0.07	36	0.05	64	0.04	42	0.03	40	0.03	52	0.03	45	0.03	42	0.03	62	0.03	53	0.04	51	0.05	37	0.04	85	0.09	199	0.20
Total Eastern Sub Division	575	0.78	236	0.40	438	0.64	432	0.28	337	0.24	378	0.25	438	0.26	393	0.25	482	0.31	479	0.29	585	0.43	463	0.44	279	0.31	362	0.40	1,776	1.77
Western Pennsylvania Sub Division 4/	11,629	15.83	9,430	16.10	10,022	14.57	15,474	9.87	13,437	9.36	13,781	9.04	20,077	11.94	19,224	12.03	20,343	13.21	21,468	13.03	16,775	12.25	11,557	10.87	7,593	8.53	6,363	7.02	9,554	9.52
<b>Ohio Sub Division:</b>																														
Ohio - all	29,058	39.56	19,232	32.82	16,419	23.86	22,970	14.66	17,399	12.12	16,172	10.60	16,100	9.58	8,965	5.61	8,205	5.33	12,912	7.84	12,092	8.82	10,771	10.13	7,823	8.79	10,965	12.10	11,321	11.28
Panhandle of West Virginia 5/	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	357	0.34	162	0.18	136	0.15	158	0.16
Michigan - all	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Ohio Sub Division	29,058	39.56	19,232	32.82	16,419	23.86	22,970	14.66	17,399	12.12	16,172	10.60	16,100	9.58	8,965	5.61	8,205	5.33	12,912	7.84	12,092	8.82	11,128	10.47	7,985	8.97	11,101	12.25	11,479	11.44
Northern West Virginia 6/	1,965	2.68	1,127	1.92	1,300	2.62	2,903	1.85	1,875	1.31	2,487	1.63	4,255	2.53	7,027	4.40	6,347	4.12	5,731	3.48	4,779	3.49	3,242	3.05	2,945	3.31	3,200	3.53	3,258	3.25
Southern - Low Volatile 7/	7,565	10.30	7,331	12.51	10,818	15.72	13,535	8.64	14,460	10.07	18,145	11.89	20,489	12.19	20,707	12.96	21,330	13.85	23,690	14.38	19,193	14.01	15,457	14.54	13,743	15.45	14,490	16.00	14,916	14.87
Southern - High Volatile 8/	22,657	30.85	21,239	36.25	29,303	42.59	34,867	22.25	37,985	26.46	45,179	29.61	47,865	28.48	53,436	33.44	49,375	32.06	48,877	29.66	40,228	29.37	30,210	28.43	25,946	29.17	26,562	29.32	28,031	27.95
Western Kentucky 9/	No data	--	No data	--	No data	--	3,569	2.28	2,528	1.76	4,260	2.79	6,482	3.86	12,282	7.69	8,110	5.26	6,175	3.74	3,791	2.76	2,731	2.57	4,202	4.73	2,227	2.46	2,208	2.20
Illinois	"	"	"	"	"	"	48,401	30.89	42,851	29.85	39,307	25.77	39,458	23.47	26,863	16.81	30,861	20.03	34,863	21.16	30,533	22.29	23,658	22.26	17,782	19.99	18,190	20.08	20,209	20.15
Indiana	"	"	"	"	"	"	14,549	9.28	12,680	8.83	12,846	8.42	12,927	7.69	10,895	6.81	8,979	5.83	10,589	6.42	9,014	6.58	7,831	7.37	8,490	9.54	8,098	8.94	8,877	8.85
<b>GRAND TOTAL</b>	<b>73,449</b>	<b>100.00</b>	<b>58,595</b>	<b>100.00</b>	<b>68,800</b>	<b>100.00</b>	<b>156,700</b>	<b>100.00</b>	<b>143,552</b>	<b>100.00</b>	<b>152,555</b>	<b>100.00</b>	<b>168,091</b>	<b>100.00</b>	<b>159,792</b>	<b>100.00</b>	<b>154,032</b>	<b>100.00</b>	<b>164,784</b>	<b>100.00</b>	<b>136,990</b>	<b>100.00</b>	<b>106,277</b>	<b>100.00</b>	<b>88,965</b>	<b>100.00</b>	<b>90,593</b>	<b>100.00</b>	<b>100,308</b>	<b>100.00</b>

SOURCE: United States Bureau of Mines.

(a-1) Data for Ohio and Crescent by courtesy of Ohio Bureau of Coal Statistics. Data for Illinois, Indiana, and Western Kentucky by courtesy of Illinois Freight Association. (6) Includes coal originating on P.R.R. and P. & W. Va. in Panhandle of West Virginia. (##) Includes only coal originating on B. & O. in Panhandle of West Virginia.

1/ Includes U. S. Coal Commission Fields No. 6 Blossburg; 7 Broad Top; 9abc Central Pennsylvania.

2/ Includes U. S. Coal Commission Field No. 8 Somerset.

3/ Includes U. S. Coal Commission Fields No. 10, Maryland-Potomac (or Maryland plus Grant, Mineral and Tucker Counties, West Virginia).

4/ Includes U. S. Coal Commission Fields No. 1 Pittsburgh; 2 Connellsville; 3 Westmoreland-Ligonier; 4ab Freeport; 5 Butler-Mercer.

5/ Includes Brooke, Hancock, Marshall and Ohio Counties in West Virginia.

6/ Includes Monongalia, Preston, Marion, Harrison, Taylor, Lewis, Barbour, Gilmer, Upshur, Randolph, Braxton, and Webster Counties, and Nichols County on Baltimore and Ohio Railroad (or U. S. Coal Commission Fields No. 11 Fairmont and No. 24abc, except Clay and Kanawha Counties).

7/ Includes U. S. Coal Commission Fields No. 17 Tag River; 18 Pocahontas; 19 Winding Gulf; 20 New River; 27 Virginia Anthracite; 28 Richmond Basin; 92 North Carolina.

8/ Includes mines in Clay and Kanawha Counties in U. S. Coal Commission Fields No. 24abc; 13 Mason County; 14 Putnam County; 15 Kenova; 16 Thacker; 21 Kanawha; 22 Coal River; 23 Logan; 25 Southwestern Virginia; 26 Clinch Valley; 36 Northwestern Kentucky; 37 Hazard; 38 Harlan; 39 Southern Appalachian 40 Jellico; 43 Pentress; and northern part of No. 42, namely mines in Anderson, Morgan, and Roane Counties and Cumberland County except on the Nashville, Chattanooga and St. Louis Railroad. (This includes all high volatile districts of Southern West Virginia, Eastern Kentucky, Virginia, and Northern Tennessee.)

9/ Includes U. S. Coal Commission Field No. 41 Western Kentucky.

Prepared by Bituminous Coal Unit  
Division of Review, E.H.A.  
Under Direction of F. E. Berquist

**1073**

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[fol. 1084]

## D.'s 29-C

Bituminous Coal Shipped to New England by Rail and by Northern and Southern  
Tidewater Ports, 1919-1934, in Net Tons

(Compiled from published reports of the U. S. Bureau of Mines)

Tidewater shipments to New England<sup>1</sup>

Year	All-rail receipts in New England	From New York, Phila- delphia and Baltimore	From Hampton Roads and Charleston	Total Tidewater	Grand Total
Net tons:	a				
1919.....	9,655,000	3,132,213	5,253,169	8,385,382	18,040,382
1920.....	12,223,000	4,308,085	6,148,359	10,456,444	22,679,444
1921.....	8,374,000	2,840,707	6,017,924	8,858,631	17,232,631
1922.....	5,812,000	1,715,623	9,176,835	10,892,458	16,704,458
1923.....	9,634,000	3,702,907	9,671,413	13,374,320	23,008,320
1924.....	6,985,000	2,108,325	9,379,905	11,488,230	18,473,230
1925.....	7,756,000	2,257,249	11,206,213	13,463,462	21,219,462
1926.....	8,045,000	2,443,082	10,505,856	12,948,938	20,993,938
1927.....	7,232,000	2,239,410	12,589,571	14,828,981	22,060,981
1928.....	6,473,000	1,645,656	11,798,964	13,444,620	19,917,620
1929.....	6,781,000	1,569,976	12,874,909	14,444,885	21,225,885
1930.....	6,149,000	1,646,628	12,379,796	14,026,424	20,175,424
1931.....	5,611,000	1,098,673	11,547,464	12,646,137	18,257,137
1932.....	4,544,000	703,976	9,913,663	10,617,639	15,161,639
1933.....	4,787,000	791,171	10,559,355	11,350,526	16,137,526
1934.....	5,422,000	1,088,718	10,662,416	11,751,134	17,173,134
Percent of total					
1919.....	53.5	17.4	29.1	46.5	100.0
1920.....	53.9	19.0	27.1	46.1	100.0
1921.....	48.6	16.5	34.9	51.4	100.0
1922.....	34.8	10.3	54.9	65.2	100.0
1923.....	41.9	16.1	42.0	58.1	100.0
1924.....	37.8	11.4	50.8	62.2	100.0
1925.....	36.6	10.6	52.8	63.4	100.0
1926.....	38.3	11.6	50.1	61.7	100.0
1927.....	32.8	10.2	57.0	67.2	100.0
1928.....	32.5	8.3	59.2	67.5	100.0
1929.....	31.9	7.4	60.7	68.1	100.0
1930.....	30.5	8.2	61.3	69.5	100.0
1931.....	30.7	6.0	63.3	69.3	100.0
1932.....	30.0	4.6	65.4	70.0	100.0
1933.....	29.7	4.9	65.4	70.3	100.0
1934.....	31.6	6.3	62.1	68.4	100.0

<sup>a</sup> From records of The Commonwealth of Massachusetts, Division on the Necessaries of Life.

<sup>b</sup> Cargo coal dumped into vessels consigned to New England as reported by the railroads operating tidewater piers.

By F. G. Tryon and W. H. Young, Coal Economics Division, United States Bureau of Mines. November 4, 1935.

(Here follow Deft. Ex. 30, 30a, folios 1085 and 1086).



# INDEX OF TONS LOADED AT MINES FOR SHIPMENTS AND REALIZATION F.O.B. MINE, FOR SELECTED COMPETING STATES ~ 1923 - 1933

D.Ex. 30

1923 = 100%

THOUSANDS OF NET TONS

PENNSYLVANIA					WEST VIRGINIA					OHIO					KENTUCKY				
YEAR	LOADED AT MINES FOR SHIPMENT	INDEX NUMBERS	VALUE PER TON F.O.B. MINE	INDEX NUMBERS VALUE	YEAR	LOADED AT MINES FOR SHIPMENT	INDEX NUMBERS	VALUE PER TON F.O.B. MINE	INDEX NUMBERS VALUE	YEAR	LOADED AT MINES FOR SHIPMENT	INDEX NUMBERS	VALUE PER TON F.O.B. MINE	INDEX NUMBERS VALUE	YEAR	LOADED AT MINES FOR SHIPMENT	INDEX NUMBERS	VALUE PER TON F.O.B. MINE	INDEX NUMBERS VALUE
1923	138036	100.0	2.75	100.0	1923	101893	100.0	2.65	100.0	1923	37182	100.0	2.43	100.0	1923	43043	100.0	2.53	100.0
1924 *	110241	79.9	2.26	82.2	1924 *	97169	95.4	1.82	68.7	1924 *	27405	73.7	2.03	83.5	1924 *	43683	101.5	1.88	74.3
1925 *	114456	82.9	2.10	76.4	1925 *	118192	116.0	1.71	64.5	1925 *	24930	67.0	1.93	79.4	1925 *	53721	124.8	1.72	68.0
1926 *	128339	93.0	2.13	77.5	1926 *	138340	135.8	1.84	69.4	1926 *	24871	66.9	1.96	80.7	1926 *	61291	142.4	1.74	68.8
1927 *	116025	84.1	2.05	74.5	1927 *	140536	137.9	1.72	64.9	1927 *	13144	35.4	1.92	79.0	1927 *	67580	157.0	1.73	68.4
1928	117785	85.3	1.90	69.1	1928	128671	126.3	1.59	60.0	1928	12786	34.4	1.69	69.5	1928	60455	140.5	1.54	61.7
1929	127065	92.1	1.80	65.5	1929	134242	131.7	1.55	58.5	1929	20841	56.1	1.51	62.1	1929	59125	137.4	1.49	60.9
1930	113885	82.5	1.72	62.5	1930	117481	115.3	1.50	56.6	1930	20133	54.1	1.40	57.6	1930	50012	116.2	1.44	58.9
1931	89831	65.1	1.59	57.8	1931	98316	96.5	1.31	49.4	1931	18536	49.9	1.24	51.0	1931	38835	90.2	1.27	50.2
1932	68023	49.3	1.34	48.7	1932	82952	81.4	1.06	40.0	1932	11973	32.2	1.11	45.7	1932	34229	79.5	.99	39.1
1933	71326	51.7	1.37	49.8	1933	91329	89.6	1.14	43.0	1933	17249	46.4	1.20	49.4	1933	35114	81.6	1.13	44.7

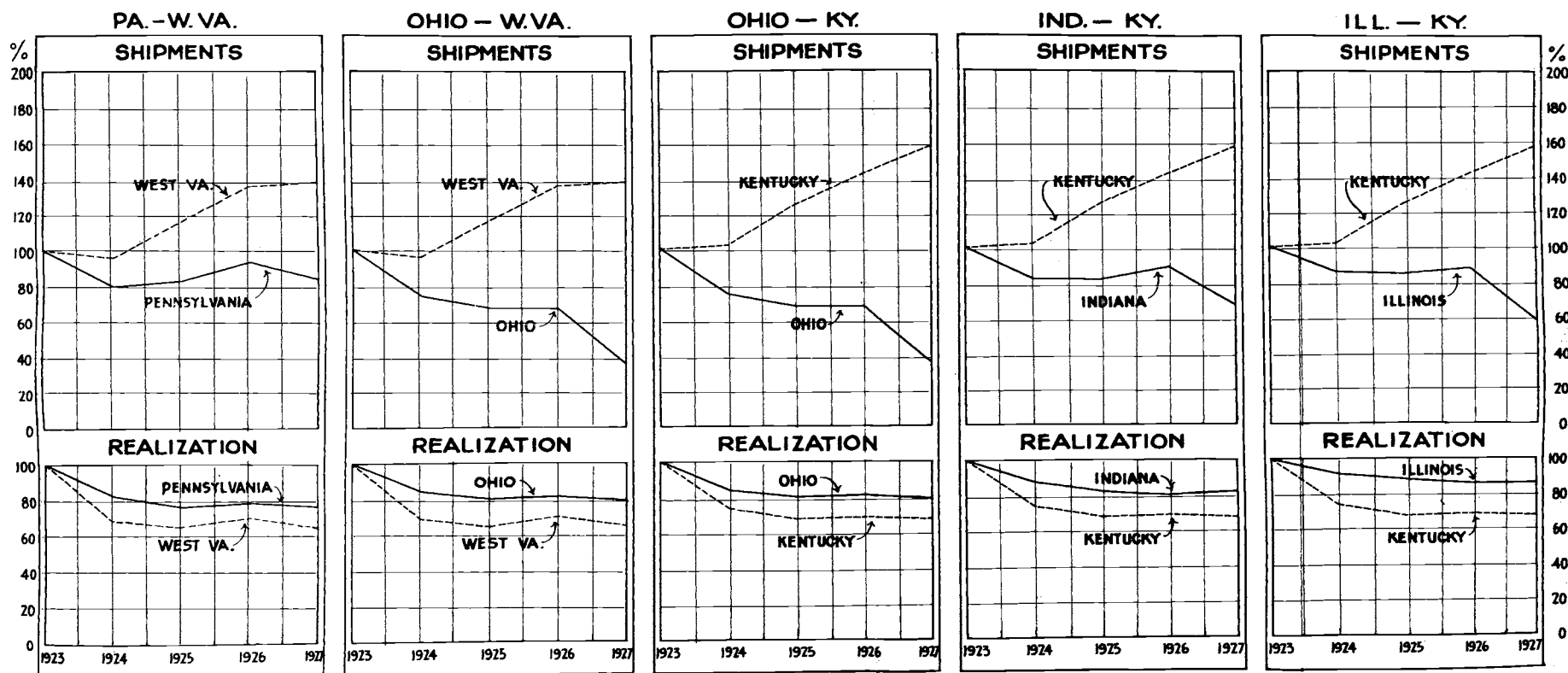
INDIANA					ILLINOIS					VIRGINIA				
YEAR	LOADED AT MINES FOR SHIPMENT	INDEX NUMBERS	VALUE PER TON F.O.B. MINE	INDEX NUMBERS VALUE	YEAR	LOADED AT MINES FOR SHIPMENT	INDEX NUMBERS	VALUE PER TON F.O.B. MINE	INDEX NUMBERS VALUE	YEAR	LOADED AT MINES FOR SHIPMENT	INDEX NUMBERS	VALUE PER TON F.O.B. MINE	INDEX NUMBERS VALUE
1923	24860	100.0	2.48	100.0	1923	73784	100.0	2.50	100.0	1923	10283	100.0	2.76	100.0
1924 *	20338	81.8	2.16	87.1	1924 *	63690	86.3	2.27	90.8	1924 *	9756	94.9	2.04	73.9
1925 *	20253	81.5	2.02	81.5	1925 *	62712	85.0	2.19	87.6	1925 *	12032	117.0	1.84	66.7
1926 *	22020	88.6	1.98	79.8	1926 *	64612	87.6	2.14	85.6	1926 *	13382	130.1	1.92	69.6
1927 *	16754	67.4	2.03	81.9	1927 *	42758	57.9	2.16	86.4	1927 *	12234	119.0	1.80	65.2
1928	15488	62.3	1.78	71.8	1928	51513	69.8	2.00	80.0	1928	11372	110.6	1.71	62.0
1929	17388	69.9	1.63	65.7	1929	55712	75.5	1.87	74.8	1929	12120	117.9	1.64	59.4
1930	15236	61.3	1.59	64.1	1930	48922	66.3	1.74	69.6	1930	10414	101.3	1.61	58.3
1931	13136	52.8	1.45	58.5	1931	39958	54.2	1.70	68.0	1931	9392	91.3	1.45	52.5
1932	12186	49.0	1.30	52.4	1932	28794	39.0	1.53	61.2	1932	7461	72.6	1.21	43.8
1933	12412	49.9	1.28	51.6	1933	31982	43.3	1.46	58.4	1933	7893	76.8	1.23	44.6

\* PERIOD OF JACKSONVILLE AGREEMENT.

SOURCE: U. S. Bureau of Mines

Prepared by Bituminous Coal Unit, Division of Review, M.R.A., Under direction of F. E. Berquist

Index of Tons Loaded at Mines for Shipment and Realization  
 F.O.B. Mine, during the Period of the Jacksonville Agreement,  
 for Selected Competing States, — 1924 — 1927  
 1923 = 100%



SOURCE: - U.S. Bureau of Mines  
 PREPARED BY: - Bituminous Coal Unit, Division of Review,  
 NRA, under the Direction of F.E. Berquist.

[fol. 1087]

D.'s 31

Comparison of Production and Realization F. O. B. Mines, Between Two Groups  
of States East of the Mississippi River

1923-1933

1923=100%

Year	Production	Index	Total Value F. O. B. Mine	Average Value (per ton)	Index
Group "A" States <sup>1</sup>					
1923.....	317,873,087	100.0	\$834,296,334	\$2.62	100.0
1924.....	250,910,267	78.9	558,583,625	2.23	85.1
1925.....	253,096,344	79.6	531,060,387	2.10	80.2
1926.....	273,466,567	86.0	574,961,316	2.10	80.2
1927.....	213,548,621	67.2	440,515,263	2.06	78.6
1928.....	219,169,942	68.9	416,767,670	1.90	72.5
1929.....	246,207,240	77.5	437,430,716	1.78	67.9
1930.....	217,235,979	68.3	365,360,173	1.68	64.1
1931.....	176,668,158	55.6	276,630,561	1.57	59.9
1932.....	135,483,988	42.6	184,176,466	1.36	51.9
1933.....	150,059,141	47.2	204,379,582	1.36	51.9
Group "B" States <sup>1</sup>					
1923.....	164,438,901	100.0	432,131,364	2.63	100.0
1924.....	157,503,565	95.8	291,717,883	1.85	70.3
1925.....	190,249,072	115.7	327,540,527	1.72	65.4
1926.....	220,567,188	134.1	400,681,851	1.82	69.2
1927.....	227,162,487	138.1	392,444,001	1.73	65.8
1928.....	206,713,471	125.7	328,246,719	1.59	60.5
1929.....	211,729,761	128.8	328,723,851	1.55	58.9
1930.....	183,589,010	111.6	276,071,237	1.50	57.0
1931.....	151,135,473	91.9	197,746,740	1.31	49.8
1932.....	128,600,497	78.2	134,999,383	1.05	39.9
1933.....	138,621,906	84.3	158,404,053	1.14	43.3

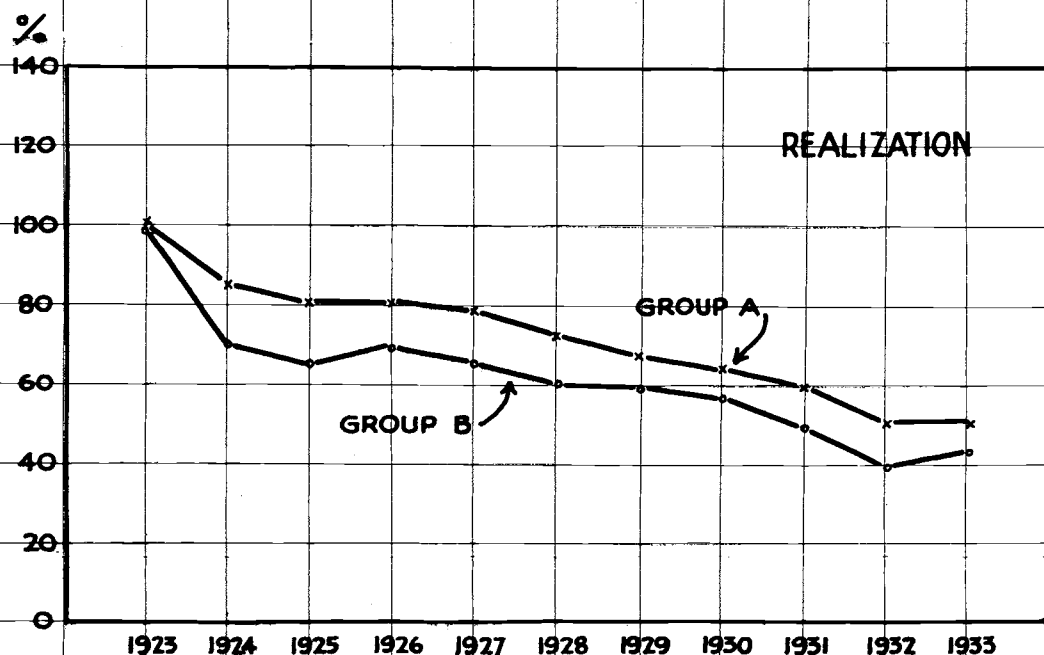
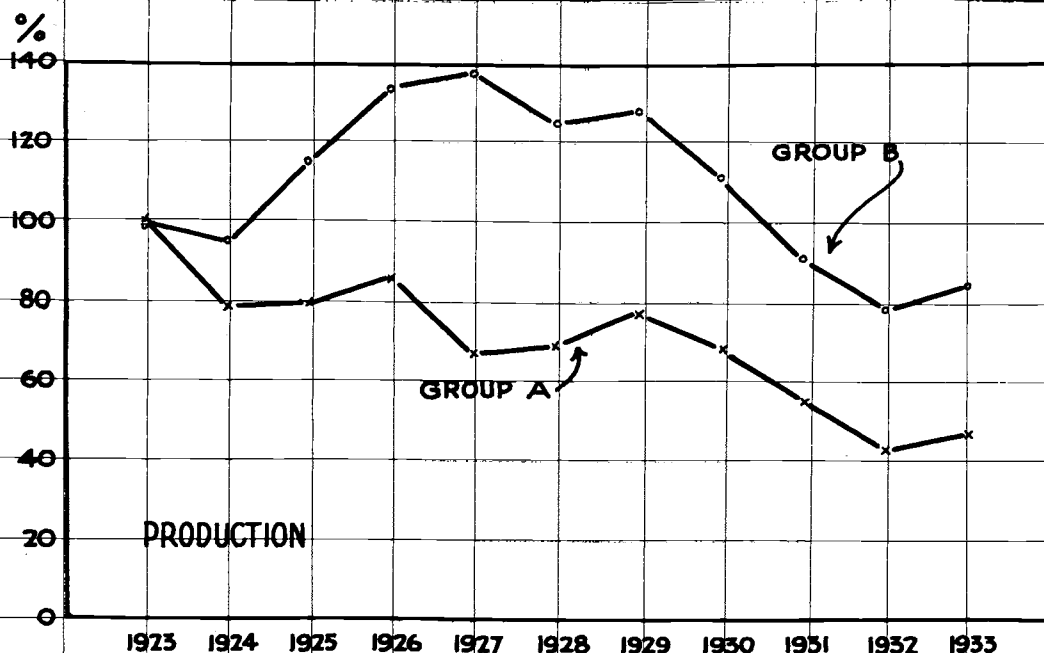
<sup>1</sup> Group "A" States:—Pennsylvania, Ohio, Illinois and Indiana.

Group "B" States:—Kentucky, West Virginia, Virginia.

Source: U. S. Bureau of Mines.

(Here follow Deft. Ex. 31a, 32, folios 1088 and 1089.)

Comparison of Production and Realization, F.O.B. Mines,  
between Two Groups of States East of the Mississippi  
River, 1923 - 1933. 1923 = 100%

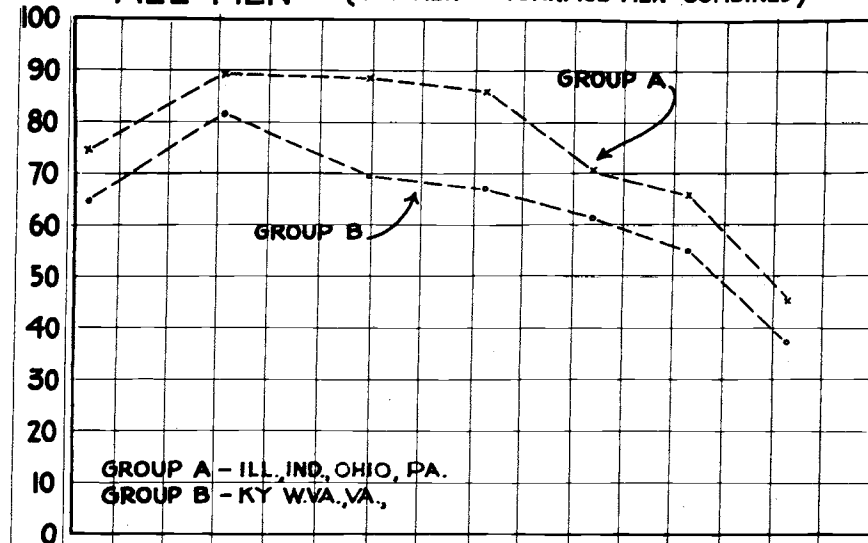


Group A States - Illinois, Indiana, Ohio, Pennsylvania  
Group B States - Kentucky, Virginia, West Virginia

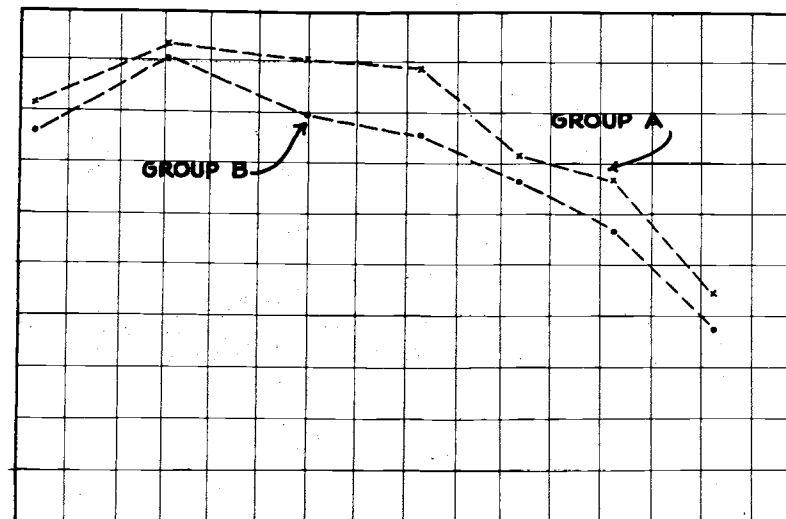
SOURCE: U.S. Bureau of Mines  
PREPARED BY: Bituminous Coal Unit, Division of Review, N.R.A., under  
the Direction of F. E. Berquist.

# Comparison of Average Hourly Earnings between Two Groups of States East of the Mississippi River for Specified Years 1919 - 1933

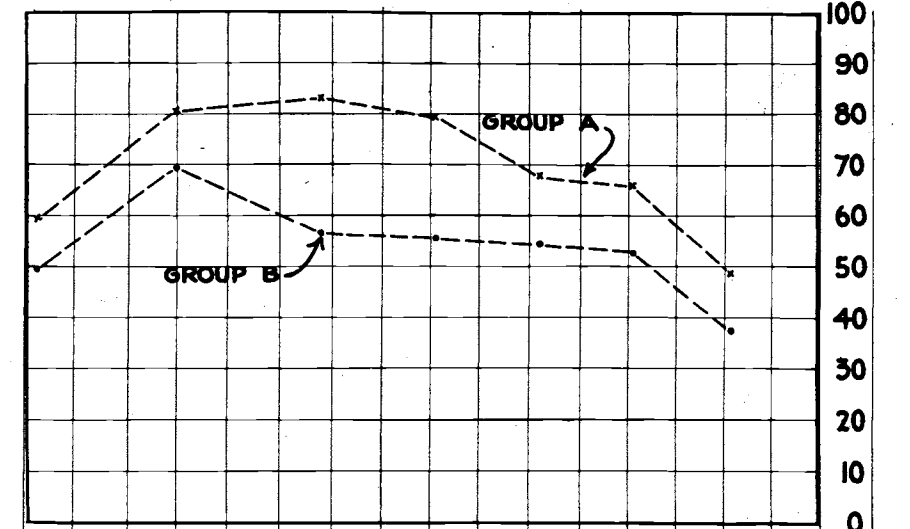
CENTS PER HOUR  
ALL MEN — (DAY MEN AND TONNAGE MEN COMBINED)



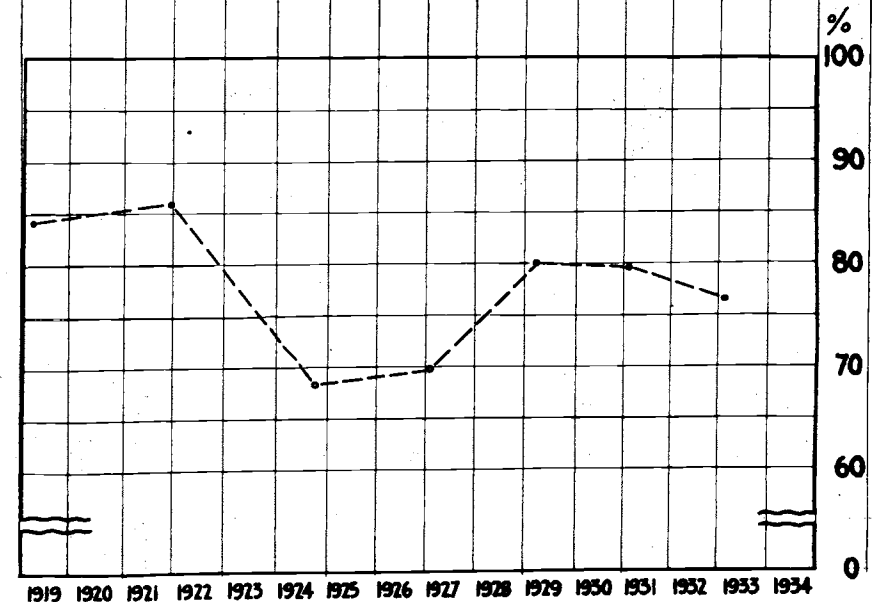
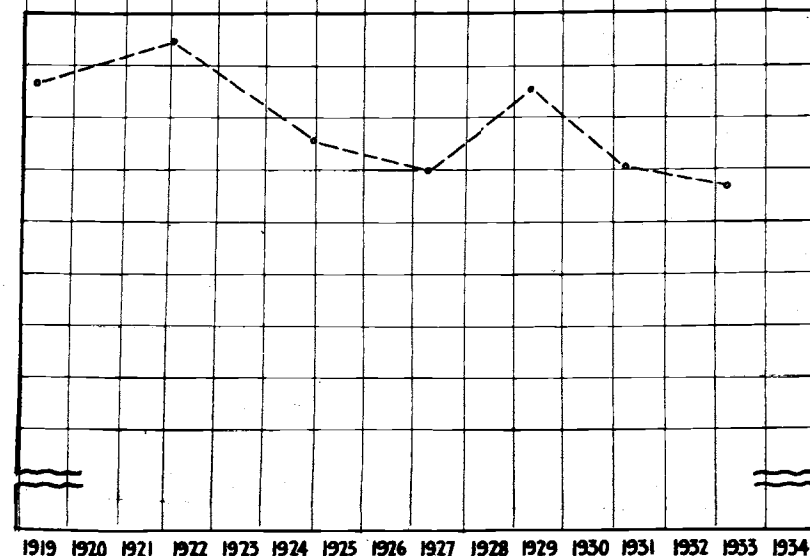
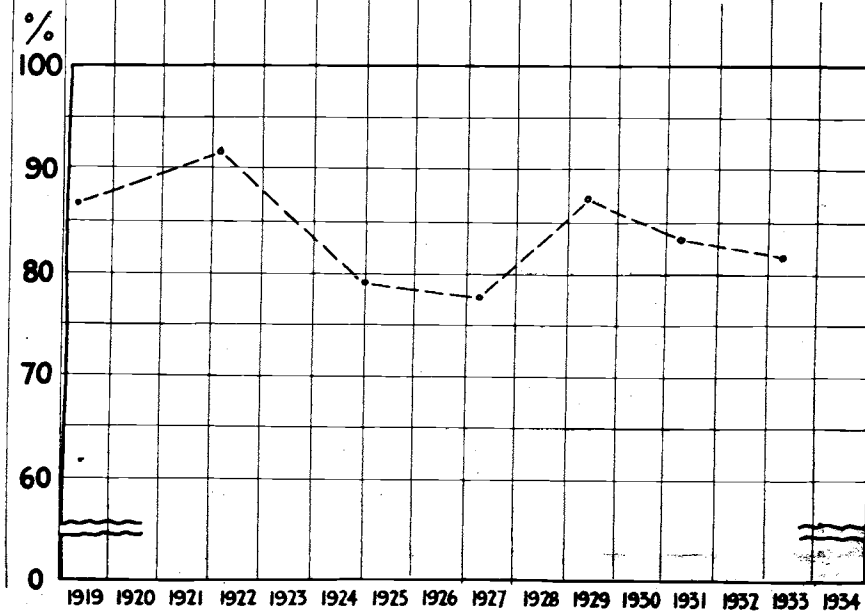
ALL TONNAGE MEN



ALL DAY MEN



Percent which Average Hourly Earnings in Group B States is of Group A States for Specified Years 1919-1933



NOTE: Virginia not Included in Average for "B" States in 1922

SOURCE: U.S. Bureau of Labor Statistics.  
PREPARED BY: Bituminous Coal Unit, Division of Review,  
NRA, under the direction of F.E. Berquist.

**1078B**

[fol. 1089-a]

D. 32A

Comparison of Average Hourly Earnings Between Two Groups of States East of the Mississippi River for Specified Years—  
1919–1933<sup>1</sup>

All Men (day and tonnage combined)

	Average Group "A" States	Average Group "B" States	Difference between Group "B" Group "A"	Per Cent Group "B" is of Group "A"
1919—January–May.....	.745	.647	— .098	86.8
1921–1922—Oct. 1–Feb. 15.....	.894	.819 <sup>a</sup>	— .075	91.6
1924—October–December.....	.885	.699	— .186	79.0
1926–27—Nov. 26–Mar. 22..	.860	.670	— .190	77.9
1929—1st quarter.....	.707	.616	— .091	87.1
1931—1st quarter.....	.662	.552	— .110	83.4
1933—February.....	.458	.375	— .084	81.7

All Tonnage Men

All Day Men

	Average Group "A" States	Average Group "B" States	Difference between Group "B" Group "A"	Per Cent Group "B" is of Group "A"	Average Group "A" States	Average Group "B" States	Difference between Group "B" Group "A"	Per Cent Group "B" is of Group "A"
1919—Jan.—May.....	.815	.760	— .055	93.3	.592	.498	— .094	84.1
1921–22—Oct. 1–Feb. 15....	.936	.910 <sup>a</sup>	— .026	97.2	.809	.695 <sup>a</sup>	— .114	85.9
1924—Oct.—Dec.....	.908	.798	— .110	87.9	.831	.568	— .263	68.4
1926–27—Nov. 26–Mar. 22..	.888	.755	— .133	85.0	.795	.555	— .240	69.8
1929—1st quarter.....	.718	.666	— .052	92.8	.681	.545	— .136	80.0
1931—1st quarter.....	.667	.568	— .099	85.2	.661	.527	— .134	79.7
1933—February.....	.448	.374	— .074	83.5	.489	.375	— .114	76.7

Source: U. S. Bureau of Labor Statistics.

<sup>1</sup> Group "A" includes: Illinois, Indiana, Ohio, Pennsylvania. Group "B" includes: Kentucky, Virginia, West Virginia.

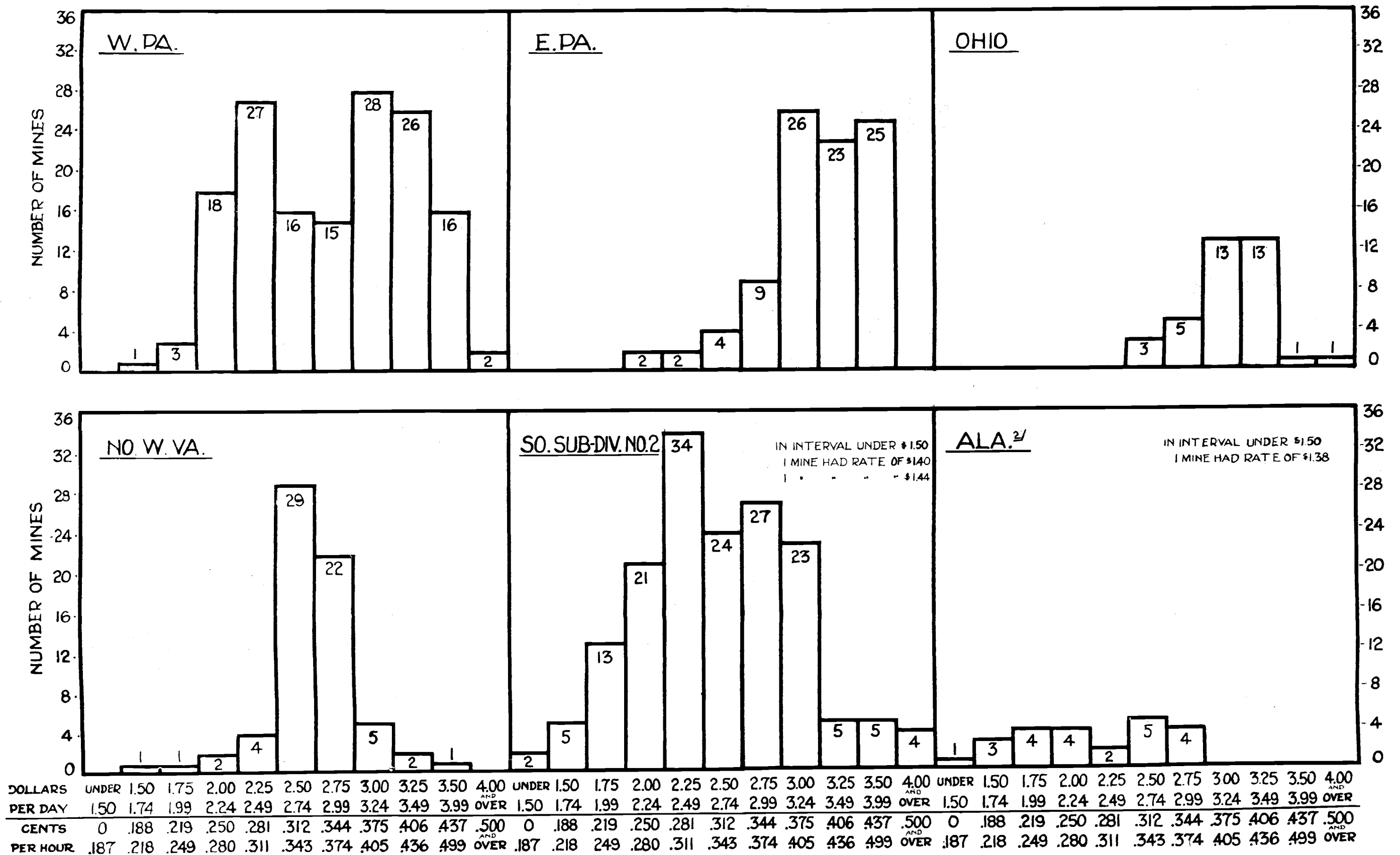
<sup>a</sup> Does not include Virginia.



1080

(Here follow Deft. Ex. 33, 33a, 34, 34a, side folios 1090,  
1091 and 1092.)

# No. of Mines in Selected Areas in which Trackmen were paid Rates Falling in Specified Wage Rate Intervals May 1933 <sup>1/</sup>



<sup>1/</sup> Reported by Operators to Bituminous Coal Unit, N.R.A., on Form "C"

NOTE: Certain Mines Reported More Than One Rate, and these were counted as Separate Reports.

<sup>2/</sup> More than half the Mines were Working 9 to 10 Hour Days.

Prepared by Bituminous Coal Unit, Division of Review, N.R.A.  
Under Direction of F.E. Berquist.

**1080A**

NUMBER AND PERCENT OF MINES IN SELECTED AREAS IN WHICH TRACKMEN WERE PAID RATES FALLING  
IN SPECIFIED WAGE RATE INTERVALS <sup>1/</sup>  
MAY-1933

	TOTAL NUMBER MINES	NOT REPORTING OR REPORTING INADEQUATELY	TOTAL NUMBER INCLUDE	UNDER \$1.50	1.50-1.74	1.75-1.99	RATES-- 2.00-2.24	DOLLARS 2.25-2.49	PER DAY 2.50-2.74	2.75-2.99	3.00-3.24		3.25-3.49	3.50-3.99	4.00-OVER	TOTAL ACROSS	
<b>DIVISION I</b>																	
WESTERN PENNSYLVANIA	173	22	151		1 (0.7)	3 (2.0)	18 (11.8)	27 (17.8)	16 (10.5)	15 (9.9)	28 (18.4)		26 (17.1)	16 (10.5)	2 (1.3)	152 (100.0)	1 MINE REPORTS MORE THAN 1 RATE
EASTERN PENNSYLVANIA	144	55	91				2 (2.2)	2 (2.2)	4 (4.4)	9 (9.9)	26 (28.6)		23 (25.3)	25 (27.4)		91 (100.0)	
MARYLAND & UPPER POTOMAC	18	13	5				1 (20.0)	1 (20.0)	3 (60.0)							5 (100.0)	
OHIO	55	19	36						3 (8.3)	5 (13.9)	13 (36.1)		13 (36.1)	1 (2.8)	1 (2.8)	36 (100.0)	
NORTHERN WEST VIRGINIA	86	29	57		1 (1.5)	1 (1.5)	2 (3.0)	4 (6.0)	29 (43.3)	22 (32.8)	5 (7.4)		2 (3.0)	1 (1.5)		67 (100.0)	10 MINES REPORT MORE THAN 1 RATE
SOUTHERN No. 1 (So. W. Va.)	139	126	13						1 (7.7)	6 (46.1)	5 (38.5)			1 (7.7)		13 (100.0)	
SOUTHERN No. 2	311	148	163	2 (1.2)	5 (3.1)	13 (8.0)	21 (12.9)	34 (20.8)	24 (14.7)	27 (16.6)	23 (14.1)		5 (3.1)	5 (3.1)	4 (2.4)	163 (100.0)	
KANAWHA } W. VIRGINIA	61	31	30		1 (3.3)	2 (6.7)		4 (13.3)	6 (20.0)	4 (13.4)	6 (20.0)		3 (10.0)	3 (10.0)	1 (3.3)	30 (100.0)	
LOGAN }	39	23	16					2 (12.5)	6 (37.5)	7 (43.8)	1 (6.2)					16 (100.0)	
BIG SANDY-ELKHORN } KENTUCKY	45	14	31	1 (3.2)		2 (6.5)	5 (16.1)	1 (3.2)	6 (19.4)	7 (22.6)	5 (16.1)		1 (3.2)	1 (3.2)	2 (6.5)	31 (100.0)	
HAZARD }	37	16	21		1 (4.8)	4 (19.0)	4 (19.0)	4 (19.1)	2 (9.5)	3 (14.3)	2 (9.5)		1 (4.8)			21 (100.0)	
HARLAN }	25	15	10				4 (40.0)	2 (20.0)		2 (20.0)				1 (10.0)	1 (10.0)	10 (100.0)	
VIRGINIA	32	14	18			2 (11.1)	2 (11.1)	6 (33.3)		2 (11.1)	6 (33.4)					18 (100.0)	
WILLIAMSON { So. W. Va. & No. Ky.	38	17	21		1 (4.8)	1 (4.8)	2 (9.5)	12 (57.1)	2 (9.5)	1 (4.8)	2 (9.5)					21 (100.0)	
SOUTHERN APPALACHIANS { So. Ky. & No. Tenn.	34	18	16	1 (6.3)	2 (12.5)	2 (12.5)	4 (25.0)	3 (18.7)	2 (12.5)	1 (6.2)	1 (6.3)					16 (100.0)	
<b>DIVISION III</b>																	
ALABAMA <sup>2/</sup>	36	13	23	1 (4.3)	3 (13.1)	4 (17.4)	4 (17.4)	2 (8.7)	5 (21.7)	4 (17.4)						23 (100.0)	
So. TENNESSEE & GEORGIA	6	2	4					3 (75.0)		1 (25.0)						4 (100.0)	

<sup>1/</sup> REPORTED BY OPERATORS TO BITUMINOUS COAL UNIT NRA ON FORM "C"

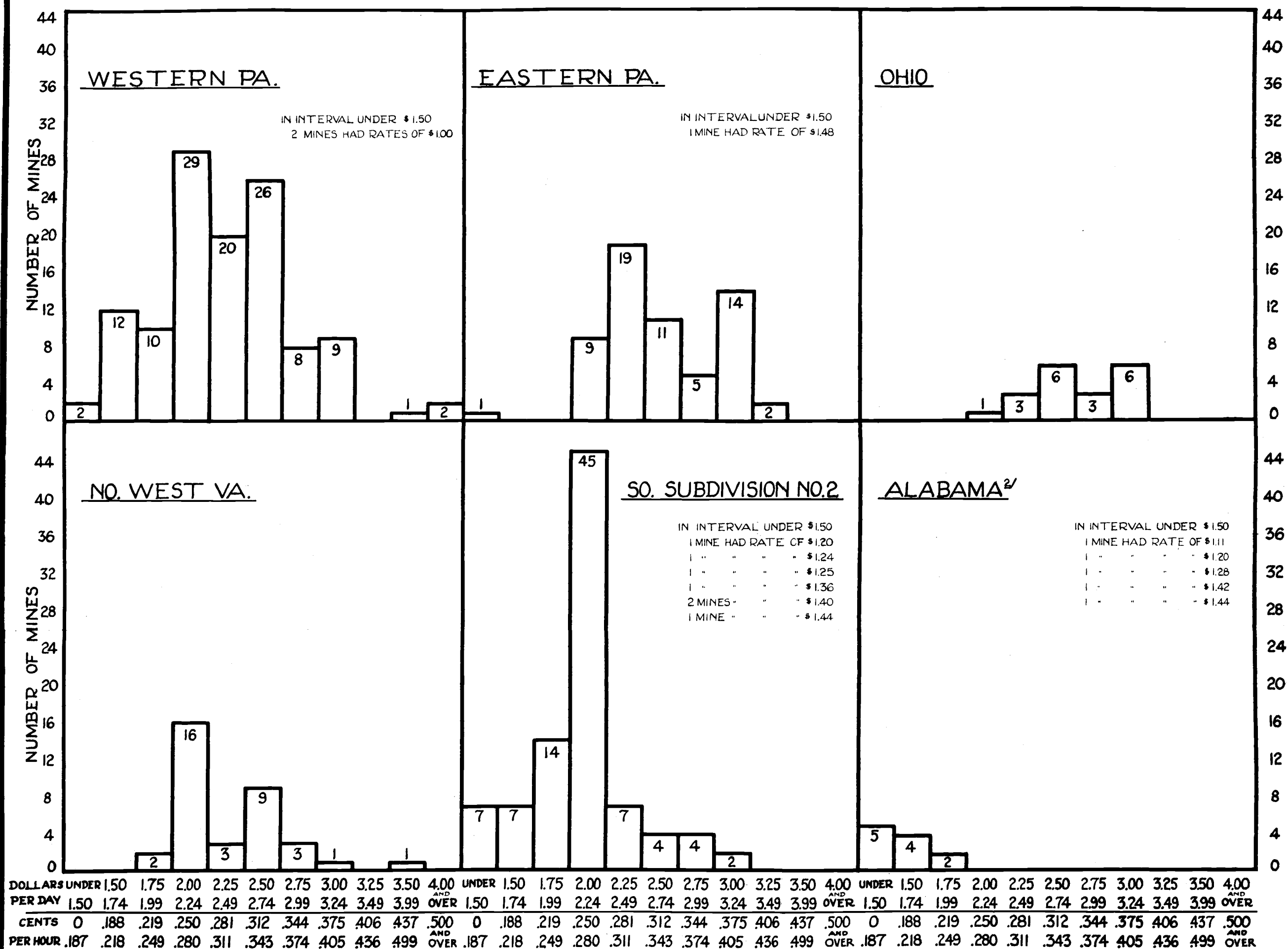
<sup>2/</sup> MORE THAN HALF THE MINES IN ALABAMA WERE WORKING A 9 OR 10 HOUR DAY

NOTE: FIGURES IN PARENTHESES ARE PERCENTAGES

10801

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# Number of Mines-Selected Areas in which Outside Common Labor was paid Rates Falling in Specified Wage Rate Intervals — May 1933<sup>1/</sup>



<sup>1/</sup> Reported by Operators to Bituminous Coal Unit N.R.A. on Form "C"

NOTE: Certain Mines Reported More Than One Rate, and these were counted as Separate Reports.

<sup>2/</sup> More than half the Mines were working a 9 or 10 Hour day.

Prepared by Bituminous Coal Unit, Division of Review, N.R.A.,  
Under Direction of F.E. Berquist.

1080C

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NUMBER AND PERCENT OF MINES IN SELECTED AREAS IN WHICH OUTSIDE COMMON  
LABOR WAS PAID RATES FALLING IN SPECIFIED WAGE RATE INTERVALS <sup>1/</sup>  
MAY 1933

		RATES IN DOLLARS PER DAY																
DIVISION I	TOTAL	MINES NOT REPORTING	TOTAL	UNDER		1.50-	1.75	2.00	2.25	2.50	2.75	3.00		3.25	3.50	4.00	TOTAL	
	Number of Mines	Number of Mines	Number of Mines	\$1.50		1.75	1.99	2.24	2.49	2.74	2.99	3.24		3.49	3.99	OVER	PERCENT	MINES REPORTING MORE THAN 1 RATE
WESTERN PENNSYLVANIA	123	19	104	2 (1.7)		12 (10.1)	10 (8.4)	29 (24.4)	20 (16.8)	26 (21.8)	8 (6.7)	9 (7.4)			1 (0.8)	2 (1.7)	119 (100.0)	MINES REPORTING MORE THAN 1 RATE
EASTERN PENNSYLVANIA	99	39	60	1 (1.6)				9 (14.8)	19 (31.1)	11 (18.0)	5 (8.2)	14 (23.0)		2 (3.3)			61 (100.0)	MINES REPORTING MORE THAN 1 RATE
MARYLAND & UPPER POTOMAC	15	9	6					2 (33.3)	3 (50.0)	1 (16.7)							6 (100.0)	MINES REPORTING MORE THAN 1 RATE
OHIO	31	12	19					1 (5.2)	3 (15.8)	6 (31.5)	3 (15.8)	6 (31.4)					19 (100.0)	MINES REPORTING MORE THAN 1 RATE
NORTHERN WEST VIRGINIA	45	10	35				2 (5.7)	16 (45.7)	3 (8.6)	9 (25.7)	3 (8.6)	1 (2.8)			1 (2.9)		35 (100.0)	MINES REPORTING MORE THAN 1 RATE
SOUTHERN No. 1	94	87	7					6 (85.7)	1 (14.3)								7 (100.0)	MINES REPORTING MORE THAN 1 RATE
SOUTHERN No. 2	186	96	90	7 (7.8)		7 (7.8)	14 (15.6)	45 (50.0)	7 (7.8)	4 (4.4)	4 (4.4)	2 (2.2)					90 (100.0)	MINES REPORTING MORE THAN 1 RATE
KANAWHA } W. VIRGINIA	40	21	19			2 (10.5)		7 (36.8)	5 (26.3)	3 (15.8)	1 (5.3)	1 (5.3)					19 (100.0)	MINES REPORTING MORE THAN 1 RATE
LOGAN	31	20	11				2 (18.2)	8 (72.7)	1 (9.1)								11 (100.0)	MINES REPORTING MORE THAN 1 RATE
BIG SANDY-ELKHORN } KENTUCKY	29	7	22	3 (13.6)		1 (4.5)	6 (27.3)	11 (50.0)		1 (4.6)							22 (100.0)	MINES REPORTING MORE THAN 1 RATE
HAZARD	20	12	8	2 (25.0)		1 (12.5)		4 (50.0)	1 (12.5)								8 (100.0)	MINES REPORTING MORE THAN 1 RATE
HARLAN	18	13	5	1 (20.0)				2 (40.0)			1 (20.0)	1 (20.0)					5 (100.0)	MINES REPORTING MORE THAN 1 RATE
VIRGINIA	14	5	9			2 (22.2)	1 (11.1)	6 (66.7)									9 (100.0)	MINES REPORTING MORE THAN 1 RATE
WILLIAMSON, SOUTHERN W. VA. & NO. KY.	18	7	11			1 (9.1)	5 (45.4)	5 (45.5)									11 (100.0)	MINES REPORTING MORE THAN 1 RATE
SOUTHERN APPALACHIAN, NO. KY. & TENN.	16	11	5	1 (20.0)				2 (40.0)			2 (40.0)						5 (100.0)	MINES REPORTING MORE THAN 1 RATE
DIVISION III																		
ALABAMA	17	7	10	5 (45.4)		4 (36.4)	2 (18.2)										11 (100.0)	MINES REPORTING MORE THAN 1 RATE
SO. TENNESSEE AND GEORGIA	3	1	2			2 (100.0)											2 (100.0)	MINES REPORTING MORE THAN 1 RATE

<sup>1/</sup> Reported by operators to Bituminous Coal Unit, N.R.A. on Form "C"

<sup>2/</sup> More than half the mines in Alabama were working a 9 or 10 hour day.

Note: Figures in parenthesis are percentages.



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D.'s 35

Importance of Bituminous Coal in Freight Railway Traffic

Proportion that Tons Originated and Freight Revenue for Bituminous Coal Are of Total, for Class I, 1924 to 1934

	Thousands of Revenue tons originated			Thousands of Dollars of freight revenue (1)			
	Total tons	Bituminous Coal		Total revenue	Bituminous Coal		\$ per ton Coal orig- inated
		Tons	% of Total		Revenue	% of Total	
1924.....	1,188,157	321,081	27.0				
1925.....	1,247,137	346,348	27.8				
1926.....	1,336,528	389,086	29.1				
1927.....	1,282,027	361,843	28.2				
1928.....	1,285,943	346,057	26.9	4,830,227	784,470	16.2	2.27
1929.....	1,339,091	368,339	27.5	4,966,611	827,799	16.7	2.25
1930.....	1,153,197	322,150	27.9	4,206,496	718,448	17.1	2.23
1931.....	894,186	263,991	29.5	3,359,181	585,933	17.4	2.22
1932.....	646,223	218,196	33.8	2,533,726	493,457	19.5	2.26
1933.....	698,943	230,837	33.0	2,578,985	508,117	19.7	2.20
1934.....	765,296	244,735	32.0	2,729,903	525,801	19.3	2.15

(1) Not officially reported by commodities until 1928.

Source: Freight Commodity Statistics, Class I Steam Railways in the U. S. Interstate Commerce Commission.

Prepared by Bituminous Coal Unit, Division of Review, N. R. A., under Direction of F. E. Berquist.

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## ANNUAL BITUMINOUS COAL PRODUCTION: STATE TOTALS AND THEIR PROPORTIONS OF TOTAL UNITED STATES, 1913 - 1934.

		1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934 (Preliminary)
Alabama	Tons Per cent	17,678,522 3.7	15,593,422 3.7	14,927,937 3.4	18,086,197 3.6	20,068,074 3.6	19,184,962 3.3	15,536,721 3.3	16,294,099 2.9	12,568,899 3.0	18,324,740 4.3	20,457,649 3.6	19,130,184 4.0	20,004,395 3.9	21,000,962 3.7	19,765,866 3.8	17,621,362 3.5	17,943,923 3.4	15,570,058 3.3	11,998,781 3.2	7,856,939 2.5	8,799,989 2.6	9,596,000 2.7
Arkansas	Tons Per cent	2,234,107 0.5	1,836,540 0.5	1,652,106 0.4	1,994,915 0.4	2,143,579 0.4	2,227,369 0.4	1,429,020 0.3	2,103,596 0.4	1,227,777 0.3	1,110,046 0.3	1,296,892 0.2	1,451,503 0.3	1,220,039 0.0	1,499,017 0.3	1,548,834 0.3	1,660,973 0.3	1,695,108 0.3	1,533,434 0.3	1,153,995 0.3	1,033,471 0.3	882,924 0.3	2,864,000 0.6
Colorado	Tons Per cent	9,232,510 1.9	8,170,559 1.9	8,624,980 1.9	10,484,237 2.1	12,483,336 2.3	12,407,571 2.1	10,323,420 2.2	12,278,225 2.1	9,122,760 2.2	10,019,597 2.4	10,346,218 1.8	10,444,098 2.2	10,310,551 2.0	10,637,225 1.9	9,724,075 1.9	9,847,707 2.0	9,920,741 1.9	8,196,910 1.8	6,604,369 1.7	5,598,721 1.8	5,229,767 1.6	5,168,000 1.5
Georgia	Tons Per cent	255,626 0.1	166,498 0.0	134,496 0.0	173,594 0.0	119,028 0.0	66,716 0.0	53,337 0.0	50,156 0.0	33,815 0.0	60,636 0.0	75,620 0.0	74,947 0.0	66,174 0.0	59,869 0.0	76,712 0.0	58,390 0.0	44,636 0.0	7,092 0.0	21,580 0.0	27,208 0.0	41,382 0.0	47,000 0.0
Illinois	Tons Per cent	61,618,744 12.9	57,589,197 13.6	58,829,576 13.3	66,195,336 13.2	86,199,387 15.6	89,291,105 15.4	60,862,608 13.1	88,724,893 15.6	69,602,763 16.7	58,467,736 13.8	79,310,075 14.1	68,323,281 14.1	66,909,399 12.9	69,366,923 12.1	46,848,224 9.0	55,948,199 11.2	60,657,641 11.3	53,731,230 11.5	44,303,295 11.6	33,474,553 10.8	37,413,145 11.2	40,905,000 11.4
Indiana	Tons Per cent	17,165,671 3.6	16,641,132 3.9	17,006,152 3.8	20,093,528 4.0	26,539,329 4.8	30,678,634 5.3	20,912,288 4.5	29,350,585 5.2	20,319,509 4.9	19,132,889 4.5	26,229,099 4.7	21,480,213 4.5	21,224,966 4.1	23,186,006 4.0	17,935,758 3.5	16,378,580 3.3	18,344,358 3.4	16,489,962 3.5	14,295,165 3.7	13,323,573 4.3	13,761,052 4.1	14,880,000 4.2
Iowa	Tons Per cent	7,525,936 1.6	7,451,022 1.8	7,614,143 1.7	7,260,800 1.5	8,965,830 1.6	8,192,195 1.4	5,624,692 1.2	7,813,916 1.4	4,531,392 1.1	4,335,161 1.0	5,710,735 1.0	5,468,490 1.1	4,714,843 0.9	4,625,487 0.8	2,949,622 0.6	3,683,635 0.7	4,241,069 0.8	3,892,571 0.8	3,388,355 0.9	3,862,435 1.3	3,194,983 1.0	3,345,000 0.9
Kansas	Tons Per cent	7,202,210 1.5	6,860,988 1.6	6,824,474 1.6	6,881,455 1.4	7,184,975 1.3	7,561,947 1.3	5,224,724 1.1	5,926,408 1.0	3,466,641 0.8	2,955,170 0.7	4,443,149 0.8	4,247,733 0.9	4,524,251 0.9	4,416,480 0.8	3,443,762 0.7	2,809,724 0.6	2,975,971 0.6	2,429,929 0.5	1,986,870 0.5	1,952,885 0.6	2,217,622 0.7	5,800,000 1.6
Kentucky	Tons Per cent	19,616,600 4.1	20,382,763 4.8	21,361,674 4.8	25,393,997 5.1	27,807,971 5.0	31,612,617 5.5	30,036,061 6.5	35,690,762 6.3	31,588,270 7.6	42,134,175 10.0	44,777,317 7.9	45,147,204 9.3	55,068,670 10.6	62,924,462 11.0	69,123,998 13.4	61,860,379 12.4	60,462,600 11.3	51,208,995 11.0	39,963,621 10.5	35,299,582 11.4	36,099,729 10.8	38,068,000 10.6
Maryland	Tons Per cent	4,779,839 1.0	4,133,547 1.0	4,180,477 0.9	4,460,046 0.9	4,745,924 0.9	4,497,297 0.8	3,021,686 0.6	4,065,239 0.7	1,827,740 0.4	1,222,707 0.3	2,285,926 0.4	2,133,703 0.4	2,694,572 0.5	3,078,353 0.5	2,814,842 0.5	2,686,979 0.5	2,649,114 0.5	2,270,593 0.5	2,005,773 0.5	1,428,937 0.5	1,530,748 0.5	1,660,000 0.5
Michigan	Tons Per cent	1,231,786 0.2	1,283,030 0.3	1,156,138 0.3	1,180,360 0.2	1,374,805 0.3	1,464,818 0.3	996,545 0.2	1,489,765 0.3	1,141,715 0.3	929,390 0.2	1,172,075 0.2	831,020 0.2	808,233 0.2	646,707 0.1	756,763 0.1	617,342 0.1	804,869 0.2	661,113 0.2	359,403 0.1	446,149 0.1	406,584 0.1	631,000 0.2
Missouri	Tons Per cent	4,318,125 0.9	3,935,980 0.9	3,811,593 0.9	4,742,146 0.9	5,670,549 1.0	5,667,730 1.0	3,979,798 0.9	5,369,565 0.9	3,551,621 0.9	2,924,750 0.7	3,403,151 0.6	2,480,880 0.5	2,694,215 0.5	3,008,495 0.5	3,064,343 0.6	3,732,421 0.7	4,030,311 0.8	3,853,150 0.8	3,620,497 0.9	4,069,598 1.3	3,432,212 1.0	2,600,000 0.7
Montana	Tons Per cent	3,240,973 0.7	2,805,173 0.7	2,789,755 0.6	3,632,527 0.7	4,226,689 0.8	4,532,505 0.8	3,236,369 0.7	4,413,866 0.8	2,733,958 0.7	2,572,221 0.6	3,147,678 0.6	2,905,365 0.6	3,043,686 0.6	2,797,760 0.5	3,143,638 0.6	3,324,195 0.7	3,407,526 0.6	3,022,004 0.6	2,378,052 0.6	2,125,225 0.7	2,152,207 0.6	2,600,000 0.7
New Mexico	Tons Per cent	3,708,806 0.8	3,877,689 0.9	3,817,940 0.9	3,793,011 0.8	4,000,527 0.7	4,023,239 0.7	3,138,756 0.7	3,683,440 0.6	2,453,482 0.6	3,147,173 0.7	2,915,173 0.5	2,786,063 0.6	2,556,851 0.5	2,817,923 0.5	2,935,539 0.6	2,711,851 0.6	2,622,769 0.5	1,969,433 0.4	1,552,822 0.4	1,263,386 0.4	1,226,236 0.4	1,250,000 0.4
North Carolina	Tons Per cent	-	-	-	-	-	1,420 0.0	6,989 0.0	11,540 0.0	23,438 0.0	78,570 0.0	36,019 0.0	57,094 0.0	65,153 0.0	57,939 0.0	53,377 0.0	60,860 0.0	52,180 0.0	28,500 0.0	2,363 0.0	1,900 0.0	2,014 0.0	2,014 0.0
North Dakota	Tons Per cent	495,320 0.1	506,685 0.1	528,078 0.1	634,912 0.1	790,548 0.1	719,733 0.1	840,999 0.2	948,625 0.2	864,903 0.2	1,327,564 0.3	1,385,400 0.2	1,200,527 0.2	1,324,620 0.3	1,370,244 0.2	1,527,939 0.3	1,649,930 0.3	1,862,130 0.3	1,700,157 0.4	1,519,307 0.4	1,739,658 0.6	1,782,272 0.5	1,830,000 0.5
Ohio	Tons Per cent	36,200,527 7.6	18,843,115 4.5	22,434,691 5.1	34,728,219 6.4	40,748,734 7.4	45,812,943 7.9	35,876,682 7.7	45,878,191 8.1	31,942,776 7.7	26,953,791 6.4	40,546,443 7.2	30,473,007 6.3	28,034,112 5.4	27,872,488 4.9	15,799,697 3.1	15,641,225 3.1	23,689,477 4.4	22,551,978 4.8	20,410,995 5.4	13,909,451 4.5	19,588,763 5.9	20,842,000 5.8
Oklahoma	Tons Per cent	4,165,770 0.9	3,988,613 1.0	3,693,580 0.8	3,608,011 0.7	4,386,844 0.8	4,813,447 0.8	3,802,113 0.8	4,849,288 0.8	3,362,623 0.7	2,802,511 0.7	2,885,038 0.5	2,329,615 0.5	2,325,840 0.4	2,842,673 0.5	3,818,054 0.7	3,501,325 0.7	3,774,080 0.7	2,793,954 0.6	1,908,394 0.5	1,255,466 0.4	1,238,244 0.4	2,056,000 0.5
Pennsylvania	Tons Per cent	173,781,217 36.3	147,983,294 35.0	157,955,137 35.7	170,295,424 33.9	172,448,142 31.3	178,550,741 30.8	150,758,154 32.4	170,607,847 30.0	116,013,942 27.9	113,148,308 26.8	171,879,913 30.5	130,633,773 27.0	136,928,019 26.3	153,041,638 26.7	132,964,639 25.7	131,202,163 26.2	143,516,241 26.8	124,462,787 25.6	97,658,698 25.6	74,775,862 24.2	79,295,944 23.8	89,223,000 24.9
Tennessee	Tons Per cent	6,860,184 1.4	5,943,258 1.4	5,730,361 1.3	6,137,449 1.2	6,194,221 1.1	6,831,048 1.2	5,213,205 1.1	6,662,428 1.2	4,460,326 1.1	4,876,774 1.2	6,040,268 1.1	4,556,555 1.0	5,454,011 1.1	5,788,741 1.0	5,783,367 1.1	5,610,959 1.1	5,405,464 1.0	5,130,428 1.1	4,721,548 1.2	3,537,882 1.1	3,774,761 1.1	4,056,000 1.1
Texas	Tons Per cent	2,429,144 0.5	2,323,773 0.6	2,088,908 0.5	1,987,503 0.4	2,355,815 0.4	2,261,135 0.4	1,680,656 0.4	1,615,015 0.3	972,839 0.2	1,106,007 0.3	1,187,329 0.2	1,147,011 0.2	1,008,375 0.2	1,091,158 0.2	1,326,385 0.3	1,182,034 0.2	1,100,668 0.2	833,872 0.2	716,020 0.2	636,590 0.2	821,878 0.2	716,000 0.2
Utah	Tons Per cent	3,254,828 0.7	3,103,036 0.7	3,108,715 0.7	3,567,428 0.7	4,125,230 0.8	5,136,825 0.9	4,631,323 1.0	6,005,199 1.0	4,078,784 1.0	4,992,008 1.2	4,720,217 0.8	4,488,157 0.9	4,690,342 0.9	4,373,793 0.8	4,781,480 0.9	4,842,544 1.0	5,160,521 1.0	4,257,541 0.9	3,350,044 0.9	2,852,127 0.9	2,674,986 0.8	2,418,000 0.7
Virginia	Tons Per cent	8,828,068 1.8	7,999,535 1.9	8,122,596 1.8	9,707,474 1.9	10,087,091 1.8	10,289,808 1.8	9,326,830 2.0	11,378,606 2.0	7,492,378 1.8	10,491,174 2.5	11,761,643 2.1	10,693,464 2.2	12,799,443 2.5	14,133,386 2.5	12,916,042 2.5	11,900,933 2.4	12,748,306 2.4	10,907,377 2.3	9,698,680 2.5	7,692,180 2.5	8,178,642 2.5	9,100,000 2.5
Washington	Tons Per cent	3,877,891 0.8	3,064,820 0.7	2,429,095 0.6	3,038,588 0.6	4,009,902 0.7	4,082,212 0.7	2,990,447 0.6	3,757,093 0.7	2,428,722 0.6	2,581,165 0.6	2,926,392 0.5	2,653,667 0.6	2,537,890 0.5	2,586,568 0.4	2,635,062 0.5	2,519,901 0.5	2,521,327 0.5	2,301,928 0.5	1,846,461 0.5	1,591,426 0.5	1,394,068 0.4	1,387,000 0.4
West Virginia	Tons Per cent	71,254,136 14.9	71,707,626 17.0	77,184,069 17.4	86,460,127 17.2	86,441,667 15.7	89,935,839 15.5	79,036,553 17.0	89,970,707 15.8	72,786,996 17.5	80,488,192 19.1	107,899,941 19.1	101,662,897 21.0	122,380,959 23.5	143,509,340 25.0	145,122,447 28.0	132,952,159 26.6	138,518,855 25.9	121,472,638 26.0	101,473,172 26.6	85,608,735 27.7	94,343,535 28.3	98,190,000 27.4
Wyoming	Tons Per cent	7,393,066 1.5	6,475,293 1.5	6,554,028 1.5	7,910,647 1.6	8,575,619 1.6	9,438,688 1.6	7,219,738 1.5	9,630,271 1.7	7,200,666 1.7	5,971,724 1.4	7,575,031 1.4	6,757,468 1.4	6,553,232 1.3	6,512,288 1.1	6,753,656 1.3	6,571,683 1.3	6,704,790 1.2	6,088,133 1.3	4,993,686 1.3	4,170,963 1.4	4,013,167 1.2	4,349,000 1.2
Other States	Tons Per cent	85,691 0.0	77,382 0.0	63,727 0.0	71,791 0.0	96,747 0.0	103,276 0.0	100,383 0.0	97,358 0.0	123,215 0.0	113,920 0.0	150,271 0.0	128,699 0.0	139,940 0.0	121,060 0.0	149,231 0.0	157,517 0.0	133,918 0.0	160,532 0.0	157,890 0.0	174,970 0.0	173,679 0.0	130,000 0.0
Total		478,435,297	422,703,970	442,624,426	502,513,682	551,790,563	579,385,820	465,860,058	568,666,683	415,921,950	422,												

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# Labor Cost Per Ton May 1933, compared with Labor Cost Per Ton 10 Months April 1934 through January 1935. Realization Per Ton January through September 1933 compared with Realization Per Ton - April 1934 through January 1935.

DIVISION AND SUB-DIVISION	LABOR COST		REALIZATION		INCREASE DUE TO CODE				LABOR COST		REALIZATION		INCREASE DUE TO AMENDMENT NO. 1				AVERAGE INCREASE UNDER CODE			
	MAY 1933	DEC. 1933	JAN-SEPT. '33	OCT-DEC '33	LABOR COSTS		REALIZATION		Nov. 1933 through Mar. 1934	10 Months Apr. '34 thru Jan. 1935	Nov. 1933 through Mar. 1934	10 Months Apr. '34 thru Jan. 1935	LABOR COSTS		REALIZATION		LABOR COST		REALIZATION	
	Pre-Code		Pre-Code		Dec. over May 1933		Oct-Dec. over Jan-Sept '33						10 Months-Apr. '34-Jan. '35 over 5 Months Nov. '33-Mar. '34		10 Months-Apr. '34-Jan. '35 over 5 Months Nov. '33-Mar. '34		10 Months-Apr. '34-Jan. '35 over May. '33		10 Months-Apr. '34-Jan. '35 over Jan-Sept. 1933	
	Per Ton 1	Per Ton 2	Per Ton 3	Per Ton 4	Per Ton 5	% Increase 6	Per Ton 7	% Increase 8	Per Ton 9	Per Ton 10	Per Ton 11	Per Ton 12	Per Ton 13	% Increase 14	Per Ton 15	% Increase 16	Per Ton 17	% Increase 18	Per Ton 19	% Increase 20
<b>DIVISION I</b>																				
Eastern Pa.	.810	1.074	1.230	1.700	.264	32.6	.470	38.2	1.066	1.295	1.719	2.057	.229	21.5	.338	19.7	.485	59.9	.827	67.2
Western Pa.	.626	1.005	1.120	1.650	.379	60.5	.530	47.3	.990	1.190	1.668	1.909	.200	20.2	.241	14.4	.564	90.1	.789	70.4
Ohio	.654	.959	1.010	1.660	.305	46.6	.650	64.4	.953	1.152	1.679	1.858	.199	20.9	.179	10.7	.498	76.1	.848	84.0
Michigan	—	1.618	2820	2960	—	—	.140	5.0	11.570	1.931	2.921	3.163	.361	23.0	.242	8.3	—	—	.343	12.2
Panhandle	—	.971	1.000	1.550	—	—	.550	55.0	.982	1.128	1.567	1.754	.146	14.9	.187	11.9	—	—	.754	75.4
No.W. Va.	.483	.776	.780	1.310	.293	60.7	.530	67.9	.775	.996	1.332	1.621	.221	28.5	.289	21.7	.513	106.2	.841	107.8
TOTAL DIV. I NORTH	.21	.981	1.080	1.610	—	—	.530	49.1	.974	1.186	1.634	1.900	.212	21.8	.266	16.3	—	—	.820	75.9
Southern No.1	—	.960	1.020	1.700	—	—	.680	66.7	.943	1.146	1.739	2.037	.203	21.5	.298	17.1	—	—	1.017	99.7
Southern No.2	.563	.891	.980	1.540	.328	58.3	.560	57.1	.876	1.088	1.568	1.845	.212	24.2	.277	17.7	.525	93.3	.865	88.3
Md. & Upper Potomac	.708	1.142	1.230	1.760	.434	61.3	.530	43.1	11.121	1.321	1.773	2.108	.200	17.8	.335	18.9	.613	86.6	.878	71.4
Western Kentucky	—	.708	.750	1.180	—	—	.430	57.3	.21	—	.21	—	—	—	—	—	—	—	—	—
TOTAL DIV. I SOUTH	.21	.911	.980	1.580	—	—	.600	61.2	.910	1.119	1.644	1.938	.209	23.0	.294	17.9	—	—	.958	97.8
TOTAL DIV. I	.21	.947	1.030	1.600	—	—	.570	55.3	.943	1.152	1.639	1.919	.209	22.2	.280	17.1	—	—	.889	86.3
<b>DIVISION II (Deep &amp; Strip)</b>																				
Illinois	—	.791	1.360	1.520	—	—	.160	11.8	.775	.866	1.534	1.640	.091	11.7	.106	6.9	—	—	.280	20.6
Indiana	—	.613	1.180	1.440	—	—	.260	22.0	.605	.719	1.442	1.599	.114	18.8	.157	10.9	—	—	.419	35.5
Iowa	—	1.447	2.270	2.340	—	—	.070	3.1	.21	—	.21	—	—	—	—	—	—	—	—	—
TOTAL DIVISION II	—	.777	1.360	1.540	—	—	.180	13.2	.730	.829	1.509	1.629	.099	13.6	.120	8.0	—	—	.269	19.8
<b>DIVISION III</b>																				
Alabama	.677	1.112	1.480	1.870	.435	64.3	.390	26.4	1.109	1.441	1.923	2.287	.302	27.2	.364	18.9	.734	108.4	.807	54.5
TOTAL DIVISION III	.747	1.130	1.490	1.850	.383	51.3	.360	24.2	1.122	1.413	1.910	2.254	.291	25.9	.344	18.0	.666	89.2	.764	51.3

1/ Does not include March, 1934

2/ Incomplete data.

3/ Data for period April 1934 through December 1934 only.

4/ Averages for Total Division II are not mathematically correct because Iowa was included in 1933 data, but was not available for 1934.

## SOURCES:

U.S. Bureau of Mines.  
M.R.A. Bituminous Coal Statistics.

## PREPARED BY:

Bituminous Coal Unit, Division of Review,  
M.R.A., under the direction of F.E. Berquist.

**1084**

# Ratio of Commercial Production in Subdivisions of Divisions I and II to Total of these Divisions, 1933 and 1934 : and Average Total Cost, Realization and Margins during the 10 Months Period April 1934 through January 1935.

D.Ex. 37a

Commercial Production		% of Div. I & II Total		N. R. A. Subdivisions	10 Months Period — April 1934 through January 1935							N. R. A. Monthly Reports —					
1933 <sup>1/</sup> (000)	1934 <sup>1/</sup> (000)	1933	1934		10 MONTHS' COMMERCIAL TONNAGE (ESTIMATED) (000)	N. R. A. 10 MONTHS' REPORTED TONNAGE (000)	% NRA REPORTED TONNAGE IS OF COMMERCIAL TONNAGE (COL. 6 ÷ COL. 5)	% NRA OF TOTAL 10 MONTHS' TONNAGE (INC. CAPTIVE)	AVERAGE TOTAL COST	AVERAGE MINE REALIZATION	MARGIN COLUMN (10) MINUS COLUMN (9)	COST		REALIZATION		MARGIN	
												May 1934	Jan. 1935	May 1934	Jan. 1935	May 1934	Jan. 1935
31072	32745	11.9	11.7	EASTERN SUB-DIV.	26111	20249	77.5	67.0	\$ 2.12	\$ 2.06	-\$ 0.06	\$ 2.12	\$ 2.02	\$ 2.00	\$ 2.09	-\$ 0.12	+\$ 0.07
17003	16847	6.5	6.0	NO. W. VIRGINIA	12953	10468	80.8	71.0	1.67	1.62	- 0.05	1.59	1.61	1.57	1.65	- 0.02	+ 0.04
16888	18201	6.4	6.5	OHIO	14214	9645	68.2	60.0	1.80	1.86	+ 0.06	1.79	1.76	1.80	1.91	- 0.01	+ 0.15
3484	3370	1.3	1.2	PANHANDLE of W. VA.	2690	1966	73.1	62.0	1.73	1.76	+ 0.03	1.82	1.75	1.76	1.75	- 0.06	—
40286	42672	15.4	15.3	SOUTHERN NO. 1	33689	32294	95.9	90.0	1.94	2.04	+ 0.10	1.90	1.89	1.95	2.11	+ 0.05	+ 0.22
61750	65701	23.6	23.5	SOUTHERN NO. 2	54111	36836	68.1	62.0	1.82	1.84	+ 0.02	1.74	1.81	1.76	1.91	- 0.03	+ 0.10
33044	36894	12.6	13.2	WESTERN PA.	30087	26454	87.9	60.0	1.94	1.91	- 0.03	1.91	1.90	1.88	1.92	- 0.03	+ 0.02
407	631	0.1	0.2	MICHIGAN	478	347	72.6	73.0	3.18	3.16	- 0.02	3.57	3.04	2.91	3.28	- 0.66	+ 0.24
7834	7893	3.0	2.8	WESTERN KENTUCKY <sup>2/</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—
211768	224954	80.8	80.4	DIVISION I	174333	138309	78.7	68.0	1.91	1.92	+ 0.01	1.87	1.87	1.85	1.98	- 0.02	+ 0.11
33698	36843	12.9	13.2	ILLINOIS	29699	26262	88.4	79.0	1.55	1.64	+ 0.09	1.65	1.46	1.55	1.70	- 0.10	+ 0.24
13574	14618	5.2	5.3	INDIANA	11725	8893	75.8	75.0	1.52	1.60	+ 0.08	1.64	1.36	1.53	1.63	- 0.11	+ 0.27
2844	2977	1.1	1.1	IOWA <sup>2/</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—
50116	54438	19.2	19.6	DIVISION II <sup>3/ 4/</sup>	41424	35155	84.9	78.0	1.54	1.63	+ 0.09	1.65	1.44	1.55	1.69	- 0.10	+ 0.25
261884	279392	100.00	100.00	DIVISIONS I & II	215757	173464	79.9	70.0	\$ 1.83	\$ 1.86	+ 0.03	1.84	1.75	1.80	1.90	- 0.04	+ 0.15

1/ From U. S. Bureau of Mines. The tonnage shown in each case represents the total tons produced minus the production of the "100% Captive" mines.

2/ Cost and realization in November and December 1933, for West Kentucky was 15 and 31 cents less respectively than average of Illinois and Indiana. Iowa in same period was 79 and 86 cents more.

3/ Totals do not include West Kentucky nor Iowa, except where shown in columns.

4/ Strip mines included in Division II.

5/ Adjusting for entire coal year 1934-35 by using January realization and ten months' cost for February and March, 1935, and correcting for West Kentucky and Iowa on above basis, the average cost of Divisions I and II becomes \$1.84 and the average realization \$1.87.

## SOURCE:

For columns 1, 2 & 5, U. S. Bureau of Mines.  
For columns 6, 9 to 17, N.R.A. Bituminous Coal Statistics.

Prepared by Bituminous Coal Unit.  
Division of Review, N.R.A.  
Under direction of F. E. Berquist



1085

RATIO OF WAGES PAID TO VALUE OF PRODUCTS IN MAJOR INDUSTRIES, IN 1929 <sup>1/</sup>

(Manufacturing industries listed include all individual industries paying more than \$50,000,000 in wages in 1929.  
Mining and quarrying industries listed include all individual industries paying more than \$25,000,000 in wages in 1929.)


Industry	Wages	Value of Products <sup>2/</sup>	Percent of wages to value
<b>MINING</b>			
Bituminous coal	574,800,072	966,693,771	59.5
Anthracite coal	229,967,059	384,854,300	59.8
Iron ore	40,905,190	197,334,548	20.7
Copper	73,199,785	283,517,313	25.8
Limestone	39,188,364	117,257,784	33.4
Petroleum and natural gas <sup>3/</sup>	167,989,615	931,793,423	18.0
<b>MANUFACTURING</b>			
Agricultural implements	58,941,939	277,854,462	21.2
Boots and shoes, other than rubber	222,407,732	965,922,694	23.0
Cases, paper, not elsewhere classified	57,109,700	294,253,296	19.4
Bread and other bakery products	274,561,581	1,526,110,811	18.0
Canning and preserving: Fruits and vegetables; pickles, jellies, preserves, and sauces.	74,978,590	750,342,041	10.0
Car and general construction and repairs, steam railroad repair shops.	590,202,724	1,184,435,262	49.8
Cars, electric and steam railroad, not built in railroad repair shops	63,387,382	328,220,204	19.3
Chemicals, not elsewhere classified	94,680,013	738,048,386	12.8
Cigars and cigarettes	85,623,298	1,066,908,888	8.0
Clay products (other than pottery) and nonclay refractories	106,918,327	294,934,513	36.3
Clothing (except work clothing) men's youths and boys', not elsewhere classified	179,768,808	901,104,205	19.9
Clothing, women's, not elsewhere classified	243,851,143	1,709,580,505	14.3
Confectionery	56,442,674	393,269,849	14.4
Cotton goods	324,789,094	1,524,177,087	21.3
Dyeing and finishing textiles	94,294,685	465,820,629	20.2
Electrical machinery, apparatus, and supplies	456,377,629	2,300,915,572	19.8
Engines, turbines, tractors, water wheels.	98,705,080	457,217,669	21.6
Foundry and machine-shop products, not elsewhere classified	697,508,589	2,791,461,964	25.0
Furniture, including store and office fixtures	242,832,096	948,116,358	25.6
Gas, manufactured, illuminating and heating	60,160,926	512,652,595	11.7
Glass	87,795,111	303,818,560	28.9
Hardware not elsewhere classified	67,702,255	229,477,507	29.5
Iron and steel: Steel works and rolling mills	689,015,541	3,365,788,805	20.5
Knit goods	210,714,335	899,716,672	23.4
Leather: Tanned, curried, and finished	65,413,707	481,340,299	13.2
Lumber and timber products, not elsewhere classified	421,684,874	1,273,472,320	33.1
Machine-tool accessories and small metal-working tools, not elsewhere classified	51,384,540	144,410,890	35.4
Machine tools	76,410,237	244,578,088	31.2
Marble, granite, slate, and other stone products	63,040,864	192,163,916	32.8
Meat packing, wholesale	165,867,420	3,434,654,098	4.8
Motor-vehicle bodies and motor-vehicle parts.	366,503,395	1,537,929,793	23.8
Motor, vehicles, not including motor-cycles	366,579,233	3,722,793,274	9.8
Nonferrous-metal alloys and products, not including aluminum products	116,943,996	909,804,059	12.9
Paper	140,398,374	967,186,026	14.5
Petroleum refining	131,176,993	2,639,665,001	5.0
Planing-mill products (including general mill work) not made in planing-mills connected with saw mills	116,422,664	553,583,498	21.0
Printing and publishing, book and job	251,576	1,006,626,262	25
Printing and publishing, newspaper and periodical	253,399,075	1,738,398,892	14.6
Rubber goods, other than tires, inner tubes, and boots and shoes	50,278,617	244,745,737	20.5
Rubber tires and inner tubes	127,041,975	770,176,890	16.5
Ship and boat building, steel and wooden, including repair work	88,274,153	231,300,165	38.2
Silk and rayon manufactures	137,547,146	731,280,231	18.8
Shaped ware, enameled ware, and metal stamping, enameling and japanning, and lacquering	50,091,700	204,306,134	24.5
Steam fittings and steam and hot-water heating apparatus	58,974,874	288,310,854	20.8
Stoves and ranges (other than electric) and warm-air furnaces	65,146,509	271,747,009	24.0
Structural and ornamental iron and steel work, not made in plants, operated in connection with rolling mills	27,785,606	477,836,827	18.4
Woolen goods	66,013,599	290,938,949	22.7
Worsted goods	98,137,732	536,067,399	18.3

<sup>1/</sup> Sources: U. S. Census of Mines and Quarries, 1929—page 13

U. S. Census of Manufactures, 1929, Volume 1, pages 21 to 34.

<sup>2/</sup> The value of products include any profits and capital charges as well as cost of production.<sup>3/</sup> Figures for petroleum and natural gas are for 1919. U. S. Census of Mines and Quarries, 1919, page 40.

Defendant's Exhibit No. 39

**DECLARATION OF PRINCIPLES**  
**AND**  
**AGREEMENT**  
**By and Between**  
**The Rocky Mountain**  
**Fuel Company**  
**and the**  
**United Mine Workers**  
**of America**  
**District No. 15**  
  
**For Period Beginning September 1, 1932**  
**and Ending August 31, 1934**

THE WAHLGREEN PIERLESS PRESS, DENVER

**DECLARATION OF PRINCIPLES**

We, the signers of this document, seeking a new era in the industrial relations of Colorado, unite in welcoming this opportunity to record the spirit and principles of this agreement.

Our purposes are:

To promote and establish industrial justice;

To substitute reason for violence, confidence for misunderstanding, integrity and good faith for dishonest practices, and a union of effort for the chaos of the present economic warfare;

To avoid needless and wasteful strikes and lockouts through the investigation and correction of their underlying causes;

To establish genuine collective bargaining between mine workers and operators through free and independent organization;

To stabilize employment, production, and markets through cooperative endeavor and the aid of science, recognizing the principle that increased productivity should be mutually shared through the application of equitable considerations to the rights of workers and to economic conditions affecting the operations and business of the company.

To assure mine workers and operators continuing mutual benefits and consumers a dependable supply of coal at reasonable and uniform prices;

To defend our joint undertaking against every conspiracy or vicious practice which seeks to destroy it; and in all other respects to enlist public confidence and support by safeguarding the public interest.

**1087**

## COMPARISON OF ACCIDENT RATES IN BITUMINOUS COAL MINING AND OTHER INDUSTRIES IN 1930

Industry	Number of establishments	Man-hours worked (thousands)	Accident rates	
			Frequency rate per million man-hours a/	Severity rate per thousand man-hours b/
<u>All industries reporting accident experience to the National Safety Council</u> .....	4,198	5,806,395	18.47	1.97
Cement .....	129	69,729	6.30	2.43
Lummary .....	37	10,487	8.96	.30
Textile .....	197	216,308	9.23	.68
Printing and publishing .....	31	18,404	9.67	.20
Steel .....	123	438,802	11.99	2.47
Rubber .....	52	178,901	12.48	.83
Automobile .....	129	457,019	12.83	1.04
Machinery .....	300	597,148	14.11	1.02
Glass products .....	38	58,446	14.94	.77
Chemical .....	211	204,069	15.30	1.94
Metal mining (underground mines) ..	46	15,031	16.43	5.93
Tanning and leather manufacturing..	49	34,076	16.49	1.16
Nonferrous metallurgical .....	52	74,018	17.14	2.03
Metal products .....	442	366,535	17.39	1.26
Food .....	189	149,100	17.72	1.48
Petroleum .....	87	576,677	18.05	2.37
Public utility .....	541	672,308	18.76	2.95
Railway car and equipment .....	45	51,100	20.23	2.43
Electric railway .....	66	118,335	22.49	1.96
Quarry .....	119	17,563	23.46	3.30
Paper and pulp .....	232	209,565	23.65	1.89
Ceramic .....	40	14,783	25.85	1.39
Foundry .....	138	103,464	32.11	2.23
Nonmetal mining (underground mines)	22	3,102	32.56	5.06
Meat packing .....	67	150,525	34.38	.99
Refrigeration .....	52	25,392	35.17	2.28
Marine .....	28	50,452	36.61	3.50
Woodworking and lumbering .....	233	124,879	40.53	1.31
Mining (underground mines) .....	166	58,944	49.34	8.94
Construction .....	392	93,783	51.57	5.49
Anthracite coal (underground mines)	22	18,401	60.54	7.59
BITUMINOUS COAL (underground mines)	56	22,410	64.53	12.60
<u>All mining companies, including those above (underground mines)</u>				
Anthracite coal .....	No data	252,543	130.86	No data
BITUMINOUS COAL .....	5,890	750,149	97.10	No data

a/ Fatal and non-fatal accidents per 1,000,000 man-hours. Includes all accidents of 1-day disability or more.

b/ Days of disability per 1,000 man-hours of employment; deaths and permanent total disabilities weighted at 6,000 days each; permanent partial disabilities weighted in accordance with severity of accident.

c/ The total includes 31 plants in miscellaneous industries not shown separately.

d/ The item for "Mining (underground mines)" is the sum of the items for "Metal mining (underground mines)," "Nonmetal mining (underground mines)," "Anthracite coal (underground mines)," and "Bituminous coal (underground mines)," which are also shown separately.

## Sources:

National Safety Council  
and U. S. Bureau of Mines.

Prepared by W. W. Adams, Supervising Statistician,  
Employment Statistics Section, Mineral Resources  
and Economics Division,  
U. S. Bureau of Mines,  
November 12, 1935.

[fol. 1100]

## DEFENDANTS' EXHIBIT 40 A

## Comparison of Accident Rates in Bituminous Coal Mining and Other Industries in 1934

Industry	Number of estab- lishments	Man- hours worked (thousands)	Accident rates	
			Frequency rate per million man-hours a	Severity rate per thousand man-hours b
All companies reporting ac- cident experience to the National Safety Council. c	3,866	4,343,740	15.29	1.70
Tobacco.....	23	19,513	3.13	.05
Laundry.....	36	8,546	5.03	.83
Printing and publishing....	47	24,923	6.38	.89
Cement.....	114	29,866	6.50	3.89
Rubber.....	48	133,880	9.25	.80
Machinery.....	275	356,878	9.33	.83
Textile.....	152	167,044	9.73	.60
Glass.....	43	50,079	9.84	1.04
Chemical.....	254	217,509	10.30	1.81
Nonferrous metallurgical...	57	84,777	10.30	1.46
Public utility.....	613	651,273	10.54	1.68
Steel.....	116	361,323	10.81	2.20
Marine.....	55	108,715	12.14	1.85
Sheet metal.....	184	124,949	14.07	1.30
Petroleum.....	128	605,390	14.31	1.69
Woodworking.....	100	28,553	14.99	.91
Miscellaneous metal pro- ducts.....	160	112,725	15.02	1.41
Tanning and leather manu- facturing.....	64	48,697	15.36	.95
Food.....	342	245,547	16.42	1.18
Quarry.....	135	11,187	17.34	3.53
Paper and pulp.....	216	143,277	19.07	1.95
Electric railway.....	49	96,196	19.29	1.83
Automobile.....	57	216,346	22.24	1.28
Nonmetal mining (under- ground mines).....	22	1,931	22.27	9.85
Foundry.....	95	50,300	23.42	2.21
Clay products.....	41	12,008	24.82	1.80
Refrigeration.....	71	21,645	27.67	.78
Construction.....	84	105,730	31.89	4.32
Metal mining (underground mines).....	30	9,352	35.50	5.72
Meat packing.....	75	168,108	38.62	1.46
Bituminous Coal (under- ground mines).....	89	35,455	44.25	11.39
Mining (underground mines) d.....	168	63,264	51.45	10.19
Anthracite coal (under- ground mines).....	27	16,526	79.33	10.18
Lumbering.....	44	19,825	83.83	4.80
All mining companies, in- cluding those above (un- der ground mines) e:				
Anthracite coal.....	no data	154,723	113.74	no data
Bituminous Coal.....	5,629	564,425	79.34	no data

(See page 1090 for footnotes.)

a Fatal and non-fatal accidents per 1,000,000 man-hours. Includes all accidents of 1-day disability or more.

b Days of disability per 1,000 man-hours of employment; deaths and permanent total disabilities weighted at 6,000 days each; permanent partial disabilities weighted in accordance with severity of accidents.

c Includes small number of plants in miscellaneous industries not shown separately and is corrected for certain duplications in the marine and petroleum industries.

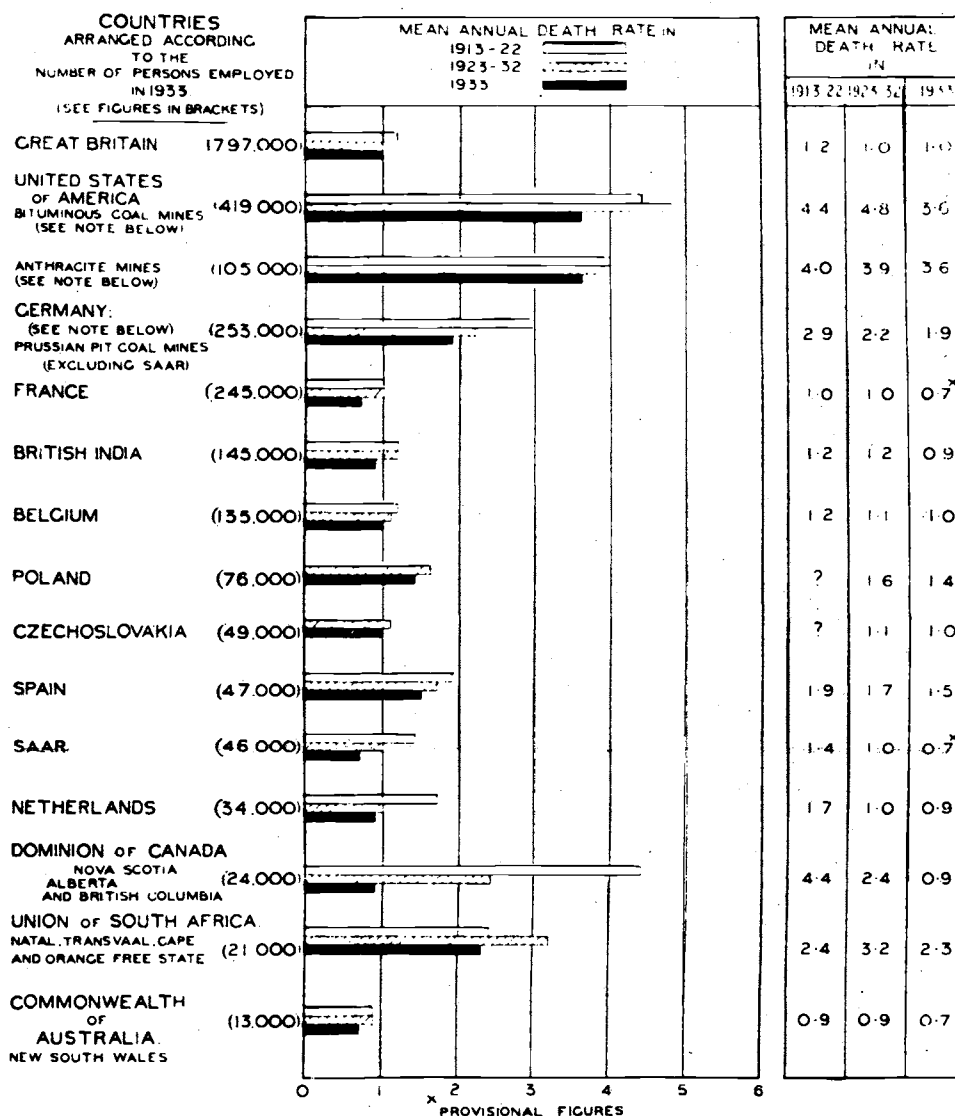
d The item for "Mining (underground mines)" is the sum of the items for "Metal mining (underground mines)," "Nonmetal mining (underground mines)," "Anthracite coal (underground mines)," and "Bituminous coal (underground mines)," which are also shown separately.

e Final statistics of the Bureau of Mines for the industry as a whole have not yet been completed for 1934. For that reason the totals for 1933 are shown.

Sources: National Safety Council and U. S. Bureau of Mines.

Prepared by W. W. Adams, Supervising Statistician, Employment Statistics Section, Mineral Resources and Economics Division, U. S. Bureau of Mines, November 12, 1935.

CHART VI. MEAN ANNUAL DEATH RATE FROM ACCIDENTS  
PER THOUSAND PERSONS EMPLOYED AT COAL MINES IN THE  
PRINCIPAL PRODUCING COUNTRIES.  
 FOR THE PERIODS 1913 - 1922, 1923 TO 1932 AND 1933.



## NOTES.

In some cases persons employed at mines other than coal mines are necessarily included, e.g., figures for Great Britain include particulars of stratified ironstone, shale and fireclay mines; and for New South Wales include shale mines. Colliery clerks are usually included in the case of British Dominions and Possessions as they are in Great Britain. In other countries they are usually not included.

In certain countries, e.g., Germany, the death-rates are calculated upon the relative number of "full time" workers, i.e., the number of men who would have been required had each one attended on every working day.

In the case of the United States of America a similar method of calculation is adopted owing to the irregularity of work at the mines. Here the death-rates are based on the assumption that continuous employment was found for a year of 300 days for the relative proportion of persons actually at work. Thus, if the average number of working days at the mines was 200, the death-rate is calculated upon two thirds of the persons employed.

From official annual report of the British Mines Department "Fourteenth annual report of the Secretary for Mines for the year ended 31st December, 1934."

Figures quoted for the United States are those of the U. S. Bureau of Mines.



**1092**

Defendant's Exhibit No. 42  
**Coal Mines Act, 1930.**

**1093**

[20 & 21 GEO. 5. CH. 34.]

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**ARRANGEMENT OF SECTIONS.**

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A.D. 1930.

**PART I.**

**PRODUCTION, SUPPLY AND SALE OF COAL.**

**Section.**

1. Schemes regulating production, supply and sale of coal.
2. Provisions of central scheme.
3. Provisions of district scheme.
4. Effect of schemes on contracts.
5. Committees of investigation.
6. Information to be furnished to Board of Trade.
7. Report to be laid before Parliament.
8. Information obtained under Act not to be disclosed.
9. Offences and penalties.
10. Duration of Part I.

**PART II.**

**REORGANISATION OF COAL MINING INDUSTRY.**

- 11 Constitution of Coal Mines Reorganisation Commission.
12. General functions of Coal Mines Reorganisation Commission.
13. Amendments of Part I of 16 & 17 Geo. 5. c. 28.

**PART III.**

**HOURS OF WORK.**

14. Temporary amendment of 8 Edw. 7. c. 57. s. 3.

**PART IV.**

**COAL MINES NATIONAL INDUSTRIAL BOARD.**

15. Power to constitute Coal Mines National Industrial Board and functions thereof.

[Price 6d. Net.]

A

i

1102

A.D. 1930.  
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## PART V.

## GENERAL.

## Section.

- 16. Application of 52 & 53 Vict. c. 49.
- 17. Exclusion of 10 & 11 Geo. 5. c. 50. s. 5 (2).
- 18. Interpretation.
- 19. Short title, citation and extent.

## SCHEDULE:

Part I.—Districts for Purposes of Part I of Act.

Part II.—Provisions as to Amalgamation and  
Adjustment of Districts.



## CHAPTER 34.

An Act to provide for regulating and facilitating the production, supply and sale of coal by owners of coal mines; for the temporary amendment of section three of the Coal Mines Regulation Act, 1908; for the constitution and functions of a Coal Mines National Industrial Board; and for purposes connected with the matters aforesaid. A.D. 1930.  
 [1st August 1930.]

**B**E it enacted by the King's most Excellent Majesty, by and with the advice and consent of the Lords Spiritual and Temporal, and Commons, in this present Parliament assembled, and by the authority of the same, as follows :—

## PART I.

## PRODUCTION, SUPPLY AND SALE OF COAL.

1.—(1) There shall be a scheme (hereafter in this Act referred to as “the central scheme”) regulating the production, supply and sale of coal by owners of coal mines situated in Great Britain, which shall, subject to the provisions of the scheme, be administered by a body referred to in this Act as the “central council”; and, subject to the provisions of this Act, there shall be for every district a scheme (hereafter in this Act referred to as a “district scheme”) regulating the production, supply and sale of coal by owners of coal mines situated in the district, which shall, subject to the provisions of the scheme, be administered by a body referred to in this Act as an “executive board.”

Schemes  
regulating  
production,  
supply and  
sale of coal.

A.D. 1930.

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PART I.—*cont.*

(2) No scheme shall have effect under this Act unless it has been approved or made by the Board of Trade.

(3) If before the expiration of the period of six weeks from the passing of this Act, or such further period as the Board of Trade may in any case allow, the central scheme or a district scheme for any district is submitted to the Board by any voluntary association or other persons appearing to the Board to be representative of a majority of the owners of coal mines situated in Great Britain or in the district, as the case may be, the Board may, if they are satisfied that the scheme complies with the requirements of this Act, approve the scheme with or without modifications, and in default of such a central or district scheme being so submitted and approved as aforesaid, the Board shall themselves make the scheme.

(4) For the purposes of the last foregoing subsection, the owners of coal mines which, during the period of six months ending on the thirty-first day of December, nineteen hundred and twenty-nine, produced more than half the output of Great Britain or of any district, shall, respectively, be deemed to be a majority of the owners of coal mines situated in Great Britain or in the district:

Provided that, if it appears to the Board of Trade that during the said period of six months the output of a substantial number of coal mines in any district was subject to regulation under any arrangements made by a voluntary association or otherwise, the Board may treat any scheme submitted to them for that district as if the latest period of six months during which the output of those coal mines was not so regulated had been the period mentioned in the foregoing provisions of this subsection.

(5) Any scheme may be amended with the approval of the Board of Trade in manner provided by the scheme, and a new scheme to have effect in substitution for any scheme theretofore in force may at any time be submitted to the Board of Trade by the central council, or, in the case of a new scheme for any district, by the executive board for any district affected thereby, and any scheme so submitted shall, if approved by the Board, have effect accordingly.

(6) Every scheme shall come into force on such date as the Board of Trade may appoint, being (except where a scheme is made by the Board themselves or is to take effect in substitution for a previous scheme) a date not less than one month nor more than three months after the passing of this Act, and the Board may appoint different dates for different schemes, and any scheme for the time being in force shall have effect as if it were enacted in this Act.

A.D. 1930.

PART I.  
—cont.

(7) The Board of Trade shall, immediately after making or approving any scheme or any amendment thereof, publish the scheme or amendment, as the case may be, in the London Gazette and for the purpose of the Documentary Evidence Acts, 1868 to 1895, any such scheme or amendment shall be deemed to be an order of the Board.

2.—(1) The central scheme shall provide for the constitution of the central council which shall, subject as hereinafter provided, be composed of representatives of all the owners of coal mines in the several districts:

Provisions  
of central  
scheme.

Provided that, if the scheme is made by the Board of Trade, the central council shall be composed of persons nominated by the Board of Trade after consultation with such voluntary associations (if any) as may appear to the Board to be representative of the owners aforesaid.

(2) The central scheme shall further provide for the following matters—

- (a) for empowering the central council to appoint officers and do all things necessary for the discharge of their functions under the central scheme;
- (b) for the allocation to each district by the council, after consultation with the executive board for the district, of a maximum output for the district (in this Act referred to as “the district allocation”);
- (c) for the district allocation being determined at such times and for such periods as the council think fit, so however that the council shall be required to amend the allocation during any such period if they are satisfied upon the

A.D. 1930.

PART I.

—cont.

representation of the executive board for the district that it is necessary to do so in order to meet an increased demand for coal or any class of coal ;

- (d) for the consideration by the council of the operation of the district schemes and for the giving of advice thereon by the council to the executive boards for the several districts, with a view to co-ordinating the operation of the district schemes ;
- (e) for the collection by the council from the executive boards for the several districts of levies, imposed upon them in proportion to the output or disposal of their respective districts, for the purpose of defraying the expenses of the council ;
- (f) for the establishment of a central fund, for the administration and control of the fund (subject to the provisions of the central scheme) by the council, for the payment into the fund of any money received by the council under the provisions of that scheme, and for the payment out of the fund of the expenses of the council and any money payable by the council under the provisions of that scheme ;
- (g) for the appointment of trustees for the council, for the vesting in the trustees of the central fund and of all other property of the council, and for enabling the trustees to sue and be sued for and on behalf of the council ;
- (h) for requiring the executive boards for the several districts to furnish to the council, or any person authorised by the council, such returns, accounts and other information as the council may consider necessary for the operation of the central scheme ;
- (i) for securing that any executive board, which is aggrieved by any act or omission of the council or of any other executive board or of any other persons in respect of their functions under a scheme in force under this Act, may refer the matter to one or more independent arbitrators, appointed in such manner as may be provided by the scheme ; and for the

manner in which any such reference is to be heard and determined; A.D. 1930.

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PART I.  
—cont.

- (j) for the imposition on and recovery from an executive board for a district of such monetary penalties as may be specified by the central scheme in the event of that board, or of any other person having functions under the scheme for that district, contravening or failing to comply with the central scheme;
- (k) for the manner in which the assets and liabilities of the council are to be dealt with on the expiration of this Part of this Act.

(3) The central scheme may provide for such matters as appear to the Board of Trade to be incidental to, or consequential on, the foregoing provisions of this section or to be necessary for giving effect to those provisions.

(4) If the central council make to the Board of Trade representations that for the purpose of regulating or facilitating the production, supply, or sale of coal, or any class of coal, by owners of coal mines situated in Great Britain it is necessary or expedient that the central scheme should make provision for any matters in addition to or in substitution for the matters mentioned in subsections (2) and (3) of this section, the Board may lay before each House of Parliament the draft of an order providing that the scheme may be amended so as to provide for the matters with respect to which the representations were made and those matters shall be specified in the draft order, and, if each House resolves that the order shall be made, the Board shall make an order in the terms of the draft to take effect on such date as may be specified in the order, and the scheme may be amended accordingly in manner provided by the scheme.

3.—(1) Every district scheme shall provide for the election of the executive board by all the owners of coal mines in the district in such manner as will ensure that any owners, who were not represented by the voluntary association or other persons who submitted the scheme, shall be fairly represented on the board as first elected : Provisions of district scheme.



A.D. 1930.

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PART I.  
—cont.

Provided that, if the scheme is made by the Board of Trade, the executive board shall be composed of persons nominated by the Board of Trade after consultation with such voluntary association (if any) as may appear to the Board of Trade to be representative of the owners aforesaid, or, where there is no such association, with the central council.

(2) Every district scheme shall further provide for the following matters—

- (a) for empowering the executive board to appoint officers and do all things necessary for the discharge of their functions under the scheme;
- (b) for the determination of the class to which any coal produced in the district belongs for any purpose;
- (c) for the determination, at such times and for such periods as may be decided in accordance with the provisions of the scheme, of the standard tonnage of every coal mine in the district in respect of coal and, if it is so decided in accordance with the provisions of the scheme, in respect of any class of coal, so, however, that the method of determination shall be specified in the scheme, and shall be such a method as will ensure that, for the purpose of the determination, regard shall be had to the special circumstances of every coal mine (including the efficiency and economy of the working of the coal mine, the extent to which it has been developed or is being developed for economic working, the extent to which its output has been increasing or decreasing, and, in the case of the first determination, the proportion which the output of the coal mine bore to the output of the district during some recent period during which no arrangements made by a voluntary association or otherwise were in force regulating the output of any substantial number of coal mines in the district);
- (d) for the determination, at such times and for such periods as may be decided in accordance with the provisions of the scheme, of the proportion (in this Act referred to as the "quota") of the

standard tonnage which each of the coal mines in the district is to be allowed to produce, so, however, that the scheme shall provide—

A.D. 1930.

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PART I.  
—*cont.*

- (i) that in any district in which a standard tonnage has been determined for any class of coal, a separate quota may be fixed as respects that class; and
  - (ii) that the quota fixed as respects coal or any class of coal shall be the same proportion of the standard tonnage of coal, or of the class of coal, as the case may be, for all coal mines in the district; and
  - (iii) that all quotas shall be so calculated that, during any period for which the district allocation has been fixed by the central council, that allocation shall not be exceeded;
- (e) for enabling arrangements to be made by owners of coal mines in the district, whereby the output of coal or any class of coal from any such mine may exceed the quota fixed for that mine, as respects coal or that class of coal, so long as the output of coal or that class of coal from some other mine in the district is lower than the quota fixed for that other mine, as respects coal or that class of coal, by an amount not less than the excess;
- (f) for the determination, at such times and for such periods as may be decided in accordance with the provisions of the scheme, of the price below which every class of coal produced in the district may not be sold or supplied by owners of coal mines in the district, and for securing that the actual consideration obtained by the sale or supply of the several classes of coal, exclusive of coal supplied free or at reduced rates for the use of persons who are or have been employed in or about the mine, and the dependants of persons who have been so employed, shall not be less in value than the price so determined;
- (g) for the collection by the executive board from the owners of coal mines in the district of levies, imposed upon the several owners in proportion

A.D. 1930.

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PART I.  
—*cont.*

to the output or disposal of their respective coal mines in the district, for the purpose of defraying the expenses of the executive board and any penalties imposed on, or levies payable by, that board under the provisions of the central scheme;

- (h) for the establishment of a district fund, for the administration and control of the fund (subject to the provisions of the scheme) by the executive board, for the payment into the fund of any money received under the provisions of the central scheme or of the district scheme by the executive board or by any other persons in respect of their functions under the district scheme, and for the payment out of the fund of the expenses of the executive board and of any moneys payable by that board under either of those schemes;
- (i) for the appointment of trustees for the executive board, for the vesting in the trustees of the district fund and of all other property of the executive board, and for enabling the trustees to sue and be sued for and on behalf of the executive board;
- (j) for requiring the owners of coal mines in the district to furnish to the executive board or any person authorised by that board such returns, accounts and other information as that board may consider necessary for the operation of the scheme;
- (k) for the production to and inspection by an accountant authorised by the executive board for this purpose of books and accounts relating to any coal mine in the district and for the submission by him of a report to the executive board;
- (l) for securing that any owner of a coal mine in the district, who is aggrieved by any act or omission of the executive board or of any other persons in respect of their functions under the scheme, may refer the matter to one or more independent arbitrators, appointed in such manner as may be provided by the

scheme; and for the manner in which any such reference is to be heard and determined; A.D. 1930.

PART I.  
—cont.

- (m) for the imposition on and recovery from the owner of any coal mine in the district of such monetary penalties as may be specified by the scheme in the event of his contravention of or failure to comply with the scheme;
- (n) for the manner in which the assets and liabilities of the executive board are to be dealt with in the event of the scheme ceasing to have effect under this Act or on the expiration of this Part of this Act:

Provided that a district scheme may make provision for the determination of the standard tonnage of, and quota for, any two or more coal mines in the district which are worked by the same colliery undertaking as if they were one coal mine.

(3) A district scheme may further provide—

- (a) for the deduction, if it is so decided in accordance with the provisions of the scheme, from the quota of any coal mine for any period of the tonnage by which, in contravention of the provisions of the scheme, the output of the coal mine has during any previous period exceeded the quota of the coal mine for that previous period, but without prejudice to any penalty that may have been incurred by reason of the excess;
- (b) for such matters as appear to the Board of Trade to be incidental to, or consequential on, the foregoing provisions of this section or to be necessary for giving effect to those provisions.

(4) If the executive board for any district make to the Board of Trade representations that for the purpose of regulating or facilitating the production, supply, or sale of coal, or any class of coal, by owners of coal mines situated in that district it is necessary or expedient that the district scheme should make provision for any matters in addition to or in substitution for the matters mentioned in subsections (2) and (3) of this section, the Board may lay before each House of

A.D. 1930. Parliament the draft of an order providing that the scheme may be amended so as to provide for the matters with respect to which the representations were made, and those matters shall be specified in the draft order, and, unless either House before the expiration of a period of twenty days on which that House has sat next after the draft is laid before it resolves that the order shall not be made, the Board may make an order in the terms of the draft to take effect on such date after the expiration of that period as may be specified in the order, and the scheme may, with the approval of the Board, be amended accordingly in manner provided by the scheme :

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PART I.  
—cont.

Provided that, in the case of any draft order providing that a district scheme may be amended so as to provide for empowering the executive board for the district, subject to the consent of the central council, to collect from the owners of coal mines in the district levies for the purpose of facilitating the sale of any class of coal produced in the district, the foregoing provisions of this section shall have effect as if for the reference therein to a period of twenty days there were substituted a reference to a period of twenty-five days.

Effect of  
schemes on  
contracts.

4.—(1) A contract for the sale or supply of coal, whether made before or after the passing of this Act, shall not, unless the terms of the contract otherwise provide, be void or unenforceable as between the parties by reason that it cannot be performed without contravening the provisions of a scheme in force under this Part of this Act.

(2) Where the output of a coal mine exceeds during any period the quota of that mine for that period, the owner of the mine shall not be liable to any penalty under any district scheme, nor shall any deduction be made from the quota of the mine for any subsequent period, in respect of the excess, if it is adjudged by the persons having power under the scheme to impose the penalty or make the deduction or, in the event of an arbitration, by the arbitrator,—

(a) that the excess was solely occasioned by the performance of contracts made before the eleventh day of December, nineteen hundred and twenty-nine;

(b) that the excess was reasonably necessary for the performance of those contracts; and

A.D. 1930.

PART I.

—cont.

(c) that, having regard to the provisions of the central scheme, the imposition of the penalty or the making of the deduction, as the case may be, can, without substantial injury to the interests of the owners of other coal mines in the district, be dispensed with.

(3) The owner of a coal mine shall not be liable to any penalty under any district scheme by reason of the fact that he has, in pursuance of any contract, sold or supplied coal at a price below the minimum price determined in respect of that coal under the scheme at the time of the sale or supply, unless the price at which the coal was contracted to be sold or supplied was lower than the minimum price determined in respect thereof under the scheme at the time when the contract was made, or, where no minimum price had then been determined in respect of the coal, unless it is adjudged by the persons having power under the scheme to impose the penalty, or, in the event of an arbitration, by the arbitrator, that the quantity of coal contracted to be sold or supplied is greater, or the period over which the coal was contracted to be sold or supplied is longer than it would have been if no party to the contract had anticipated that the price would be regulated under the scheme.

5.—(1) There shall be constituted a national committee of investigation consisting of nine members, which shall be charged with the duty of investigating any complaint made with respect to the operation of the central scheme, and there shall also be constituted for every district a district committee of investigation consisting of five members, which shall be charged with the duty of investigating any complaint made with respect to the operation of the district scheme for the district for which the committee is constituted:

Committees  
of investi-  
gation

Provided that no such committee shall be empowered to investigate a complaint which could be referred to arbitration by the complainant under the provisions of any such scheme.

(2) The chairman and other members of every committee of investigation shall be persons appointed

A.D. 1930. by the Board of Trade, and, of the members of the committee other than the chairman, one half shall be persons appointed to represent the interests of consumers of coal, and—

PART I.  
—cont.

- (a) in the case of the national committee two shall be persons appointed to represent owners of coal mines in Great Britain and the other two shall be persons appointed to represent workers employed in or about such coal mines;
- (b) in the case of a district committee one shall be appointed to represent the owners of coal mines in the district and the other shall be appointed to represent workers employed in or about such coal mines;

and before appointing any person as a representative of any interest, the Board shall consult such bodies as appear to them to represent that interest.

(3) The meetings and procedure of every committee of investigation shall be regulated in accordance with directions issued by the Board of Trade for the purpose.

(4) The Board of Trade may appoint a secretary to each committee of investigation, and each such committee may employ such accountants, officers and servants as the Board may, with the approval of the Treasury, determine, and there shall be paid by the Board such remuneration (if any) to the chairman of the committee, such travelling and subsistence allowances to the chairman and members of the committee, such remuneration to the secretary so appointed and to the accountants, officers and servants so employed, and such other expenses of the committee, as the Board, with the approval of the Treasury, may determine, and any expenses of the Board under this subsection shall be defrayed out of moneys provided by Parliament.

(5) Where a committee of investigation is required in pursuance of this section to investigate a complaint with respect to the operation of a scheme, the council or executive board charged with the duty of administering the scheme shall furnish the committee with such returns, accounts and other information relating to the operation of the scheme as the committee considers relevant to the investigation.

(6) If after investigating any complaint made with respect to the operation of a scheme, a committee of investigation is of opinion that any provision of the scheme is contrary to the public interest or ought to be amended on the ground that it is unfair or inequitable in its operation, it shall be the duty of the committee to report the matter to the Board of Trade, and if, after considering the report and consulting such persons as appear to them to be affected, the Board agree with the opinion of the committee, the Board shall make recommendations to the council or executive board charged with the duty of administering the scheme, with a view to the rectification of the matter complained of.

A.D. 1930.

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PART I.

—cont.

The Board of Trade may hold inquiries for the purpose of assisting them to consider any report made to them under this subsection by a committee of investigation in like manner as they are empowered under section twenty-two of the Mining Industry Act, 1920, to hold inquiries for the purposes of that Act, and that section shall apply with respect to inquiries held by the Board under this subsection accordingly.

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Geo. 5. c. 50.

(7) If after the Board of Trade have, under the provisions of the last foregoing subsection, made recommendations to the executive board charged with the duty of administering any district scheme, the matter complained of is not rectified to the satisfaction of the Board, the Board may, by order published in the London Gazette, direct that the scheme shall cease to have effect under this Act and the Board shall, subject as hereinafter provided, make a new scheme in substitution therefor:

Provided that, if and so long as the Board of Trade and the central council are both satisfied that, under arrangements made by any voluntary association or otherwise by owners of coal mines in the district, the provisions of the central scheme are being complied with in that district not less effectively than in other districts, the Board shall not, except at the request of the central council, make such a new scheme as aforesaid; and during any period during which, by reason of such arrangements as aforesaid, a district scheme is not in force under this Act for any district, the provisions of this Act relating to the central scheme and the



A.D. 1930. provisions of the central scheme shall, as respects that district, have effect as if for references therein to the executive board or to any other persons having functions under the district scheme there were substituted references to the association by which, or owners by whom, the arrangements were made.

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PART I.  
—cont.

(8) If after investigating any complaint made with respect to the operation of a scheme, a committee of investigation is of opinion that any act or omission of any persons in respect of their functions under the scheme is having or is likely to have an effect contrary to the public interest or ought not to be permitted on the ground that it is unfair or inequitable, it shall be the duty of the committee to make representations with respect thereto to the persons having power under the scheme to rectify the matter, and if, upon such representations being made, the matter is not dealt with to the satisfaction of the committee, the committee may refer the matter to a single independent arbitrator to be appointed by agreement between the committee and the body charged with the duty of administering the scheme, or, in default of agreement, by the Board of Trade, and the persons having power under the scheme to give effect to the decision shall comply therewith and exercise their functions under the scheme in conformity with the decision.

(9) A committee of investigation, upon referring any matter to arbitration in accordance with the last foregoing subsection, shall make a report thereon to the Board of Trade, and shall also report to the Board the arbitrator's decision and what steps have been taken to comply therewith, and the Board shall have power to make in the scheme such amendments (if any) as they think necessary for securing that the scheme will be administered in conformity with the decision, and in particular may by such amendments alter the composition of the body charged with the administration of the scheme as if the scheme had been made by the Board.

(10) Any person aggrieved—

- (a) by the neglect or refusal of a committee of investigation to report to the Board of Trade that any provision of a scheme is contrary to the public interest, or ought to be amended on the ground that it is unfair or inequitable

in its operation, or where such a report has been made is aggrieved by any act or omission of the Board of Trade in relation thereto; or

(b) by the neglect or refusal of a committee of investigation to refer a complaint to arbitration under subsection (8) of this section;

may, with the leave of the Railway and Canal Commission, appeal to that Commission who shall have power to make such order as they think fit:

(11) The Board of Trade shall make regulations for the conduct of references to arbitration under this section, and such regulations shall make provision as to the persons by whom the remuneration of the arbitrator is to be defrayed, and all such regulations shall be laid before Parliament.

6. It shall be the duty of the central council as respects the central scheme, and of the executive board for any district as respects the scheme for that district, to furnish to the Board of Trade, in such manner and form as the Board may direct, such returns, accounts and other information with respect to the operation of the scheme as the Board may at any time require.

Information to be furnished to Board of Trade.

7. The Board of Trade shall in the year nineteen hundred and thirty-one and each subsequent year lay before Parliament a report upon the operation of all the schemes for the time being in force under this Act.

Report to be laid before Parliament.

8. No information with respect to any particular undertaking shall be included in any report published under this Part of this Act by the Board of Trade, the central council, an executive board, the national committee of investigation, or a district committee of investigation, unless the owner of the undertaking agrees thereto, and any person who obtains any information in the exercise of the powers conferred upon the council or upon any executive board by any scheme made in pursuance of this Part of this Act, or conferred upon any such committee by this Part of this Act, shall be required to make a declaration of secrecy in such form as may be prescribed by the Board of Trade, and any person who discloses any information so obtained by him shall be guilty of a misdemeanour and liable, on conviction on indictment, to imprisonment

Information obtained under Act not to be disclosed.

A.D. 1930. for a term not exceeding two years, or to a fine not exceeding one hundred pounds, or to both such imprisonment and fine, or on summary conviction to imprisonment for a term not exceeding three months or to a fine not exceeding fifty pounds, or to both such imprisonment and fine:

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PART I.  
—cont.

Provided that nothing in this section shall apply to the publication or disclosure of any information in so far as it is required to be published or disclosed for the purposes of legal proceedings (including arbitrations) under this Part of this Act or any scheme made thereunder or for any report of such proceedings, or in so far as it is required or authorised by this Part of this Act or any scheme made thereunder to be published or disclosed to the Board of Trade, the central council, a committee of investigation or an executive board.

Offences and  
penalties.

9.—(1) If any person contravenes or fails to comply with any provision of this Part of this Act or of a scheme in force thereunder, and no penalty for the contravention or failure is expressly provided by this Part of this Act or the scheme, he shall be liable on summary conviction to a fine not exceeding one hundred pounds, and to a further fine not exceeding twenty pounds for every day on which the contravention or failure occurs or continues.

(2) Where an offence under this Part of this Act or a scheme in force thereunder, committed by a corporation, is proved to have been committed with the consent or connivance of, or to have been facilitated by any neglect on the part of, any director, manager, secretary or other officer of the corporation, he, as well as the corporation, shall be deemed to be guilty of an offence and shall be liable to be proceeded against and punished accordingly.

Duration of  
Part I.

10.—(1) This Part of this Act shall continue in force until the thirty-first day of December, nineteen hundred and thirty-two, and no longer, unless Parliament otherwise determines:

Provided that the expiration of this Part of this Act shall not—

(a) affect the previous operation of, or anything duly done or suffered under, this Part of this Act; or

(b) affect any right, privilege, exemption, obligation, or liability acquired, accrued, or incurred under this Part of this Act; or

A.D. 1930.

PART I.

—cont.

(c) affect any penalty or punishment incurred under this Part of this Act; or

(d) affect any investigation, legal proceeding, or remedy in respect of any such right, privilege, obligation, liability, penalty, or punishment as aforesaid;

and any such investigation, legal proceeding, or remedy may be instituted, continued, or enforced, and any such penalty or punishment may be imposed as if this Part of this Act had not expired.

(2) The provisions of this Part of this Act making it an offence to disclose information shall continue in force notwithstanding the expiration of this Part of this Act.

## PART II.

### REORGANISATION OF COAL MINING INDUSTRY.

11.—(1) There shall be constituted a Coal Mines Reorganisation Commission (hereafter in this section referred to as “the Commission”), which shall consist of five commissioners appointed by the Board of Trade for such period and subject to such conditions as may be determined by the Board, and the Board shall appoint one of the commissioners to be chairman.

Constitution  
of Coal  
Mines Re-  
organisation  
Commission.

(2) A person shall be disqualified for being appointed, or being, a commissioner so long as he is a Member of the Commons House of Parliament.

(3) A commissioner shall within three months after his appointment sell or dispose of any interest or shares or securities which he may hold in his own name or in the name of a nominee for his own benefit in any undertaking carrying on in Great Britain the business of coal mining or supplying or selling coal or the manufacture or sale of by-products of coal or machinery or plant for coal mining; and it shall not be lawful for a commissioner while he holds office to acquire for his own benefit any interest or shares or securities in any such undertaking and if a commissioner,

A.D. 1930. under any will or succession or otherwise, becomes  
 — entitled for his own benefit to any interest or shares or  
 PART II. securities in any such undertaking he shall sell or dispose  
 —cont. of it or them within three months after he has so become  
 entitled thereto.

(4) If a commissioner becomes disqualified for holding office, or fails to comply with the provisions of the last foregoing subsection, or becomes in the opinion of the Board of Trade unfit to continue in office or incapable of performing his duties under this Act, the Board shall forthwith declare his office to be vacant, and shall notify the fact in such manner as they think fit, and thereupon the office shall become vacant.

(5) For the purposes of any business for which a quorum of the commissioners is required by this Act to be present, three commissioners personally present shall be a quorum, but, save as aforesaid, the Commission shall have power to regulate their own procedure, and may act notwithstanding a vacancy in their number.

(6) The Board of Trade may appoint a secretary to the Commission and the Commission may employ such officers and servants as the Board may, with the approval of the Treasury, determine, and there shall be paid by the Board such remuneration to the commissioners and to the secretary, officers, and servants of the Commission and such other expenses of the Commission as the Board may, with the approval of the Treasury, determine, and any expenses of the Board under this subsection shall be defrayed out of moneys provided by Parliament.

(7) Any document purporting to be issued by the Commission and to be signed by the secretary or any person authorised to act in that behalf shall be received in evidence and be deemed to have been so issued without further proof unless the contrary is shown.

General  
 functions of  
 Coal Mines  
 Reorgan-  
 isation  
 Commission.

12.—(1) It shall be the duty of the Coal Mines Reorganisation Commission (hereafter in this section referred to as "the Commission") to further the reorganisation of the coal mining industry with a view to facilitating the production, supply, and sale of coal by owners of coal mines, and for that purpose to promote and assist, by the preparation of schemes and otherwise, the amalgamation of undertakings consisting of or

comprising coal mines where such amalgamations appear to the Commission to be in the national interest. A.D. 1930.

(2) The Commission may hold such inquiries as they consider necessary or desirable for the discharge of their functions under this Act, and, in respect of any meeting of the Commission at which a quorum of the commissioners is present for the purpose of any such inquiry, the Tribunals of Inquiry (Evidence) Act, 1921, (other than paragraph (a) of section two thereof) shall apply to the Commission as if it were a tribunal established in manner provided by that Act and as if that Act had been applied thereto in the manner thereby provided. PART II.  
—cont.

(3) The Commission may from time to time employ such technical and professional agents as they consider necessary or desirable for the discharge of their functions under this Act, and, subject as hereinafter provided, there shall be paid by the Board of Trade such remuneration to the agents so employed as the Board may, with the approval of the Treasury, determine, and the expenses of the Board under this subsection shall be defrayed out of moneys provided by Parliament :

Provided that a sum certified by an accountant appointed by the Board of Trade to be equal to the amount of any expenses properly incurred by the employment of such agents as aforesaid for the purpose of promoting or assisting the amalgamation of any undertakings shall, in the event of the undertakings being amalgamated, be repaid to the Board by the owners of the amalgamated undertaking.

**13.**—(1) If it appears to the Coal Mines Reorganisation Commission that it is expedient for the purpose of promoting the more economical and efficient working, treating or disposing of coal that an amalgamation scheme or an absorption scheme, under Part I of the Mining Industry Act, 1926 (hereinafter in this section referred to as “the Act of 1926”), should be prepared and submitted with respect to any two or more undertakings consisting of or comprising coal mines, the Commissioners shall require the owners of those undertakings to prepare and submit to the Board of Trade an amalgamation scheme or absorption scheme with respect to those undertakings framed in accordance with the provisions of Part I of the Act of 1926, and if the Amend-  
ments of  
Part I of  
16 & 17  
Geo. 5. c. 28.

A.D. 1930. owners fail so to submit such a scheme within such a time as may have been specified by the Commissioners, the Commissioners shall themselves prepare and submit such a scheme to the Board of Trade, and for the purposes of that Part of that Act any scheme so prepared and submitted by the Commission shall be deemed to have been prepared and submitted in manner provided by subsection (1) or (2), as the case may be, of section one of that Act, and that Act shall apply accordingly :

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PART II.  
—cont.

Provided that—

- (a) no such scheme of amalgamation shall provide, without the consent of the owner of the undertaking, for the separation of the treating or disposing of coal from the working thereof, or, in the case of an undertaking of which the primary object is not coal mining, for the separation from the undertaking of any coal mine worked as ancillary to such primary object;
- (b) no coal mine belonging to a company whereof all the shares are held by the owner of an undertaking of which the primary object is not coal mining shall, so long as it is worked as ancillary to such primary object, be amalgamated or absorbed by virtue of a scheme prepared under this section without the consent of the owner of that undertaking.

(2) In the consideration by the Railway and Canal Commission of a scheme submitted to the Board of Trade under this section, the following paragraph shall be substituted for paragraph (a) of the proviso to subsection (2) of section seven of the Act of 1926 (which relates to consideration of schemes by the Commission):—

“(a) shall not confirm a scheme unless satisfied—

- (i) that it would be in the national interest to do so, and
- (ii) in the case of an amalgamation scheme that the scheme

(a) will result in lowering the cost of production or disposal of coal, and

(b) will not be financially injurious to any of the undertakings proposed to be amalgamated, unless the scheme contains provisions for the purchase, at a price to be fixed in default of agreement by arbitration, of any such undertaking; and

A.D. 1930.

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PART II.  
—cont.

(iii) that the terms of the scheme are fair and equitable to all persons affected thereby; and "

(3) If the owner of any undertaking (in this subsection referred to as the "transferor undertaking") proposed by any scheme submitted by the Coal Mines Reorganisation Commission to be amalgamated with, or absorbed in, any other undertaking (in this subsection referred to as the "transferee undertaking") satisfies the Railway and Canal Commission that any property, whether real or personal, belonging to the transferor undertaking formed, at the date of the passing of this Act, a reserve which, when the scheme was submitted, was not required for the efficient carrying on of the transferor undertaking, the Railway and Canal Commission shall not confirm the scheme except after making such modifications, if any, as may be necessary for securing that that property will not be transferred to the transferee undertaking.

(4) For the purposes of any scheme under Part I of the Act of 1926 the value of the undertaking of every constituent or absorbed company shall be assessed upon the basis of what would have been the value thereof as between a willing buyer and a willing seller if this Act had not been passed, and no such scheme shall be submitted to the Board of Trade under the said Part I unless the Coal Mines Reorganisation Commission have certified that such values have been so assessed for the purposes of that scheme.

(5) Where a scheme is referred by the Board of Trade to the Railway and Canal Commission under section six of the Act of 1926, the Coal Mines Reorganisation Commission shall be entitled to appear and be heard at any proceedings in connection with the scheme.

(6) No scheme shall be submitted or certificate granted by the Commission under this section except in



A.D. 1930. pursuance of a decision made at a meeting at which a quorum of the Commissioners is present.

## PART II.

—*cont.*

(7) Where an amalgamation scheme submitted to the Board of Trade by the owners of two or more undertakings under subsection (1) of section one of the Act of 1926 is certified by the Coal Mines Reorganisation Commission to be in the national interest, and the owners submitting the scheme represent to the Board that it is unnecessary for the purpose of giving effect to the scheme that it should be confirmed by the Railway and Canal Commission under the Act of 1926, it shall not be necessary for the Board to refer the scheme to the Railway and Canal Commission under that Act, but if the Board certify that the provisions of the scheme as to any debentures or as to the issue of any share or loan capital are reasonably required for the purpose of the amalgamation, subsection (2) of section five of the Act of 1926 (which grants certain exemptions from stamp duty in respect of schemes confirmed by the Railway and Canal Commission) shall apply in respect of the scheme and of anything done in pursuance thereof as if the scheme had been confirmed by the Railway and Canal Commission.

(8) This section shall be construed as one with Part I of the Act of 1926.

## PART III.

## HOURS OF WORK.

Temporary  
amendment  
of 8 Edw. 7.  
c. 57. s. 3.  
16 & 17  
Geo. 5. c. 17.

**14.**—(1) During the continuance of the Coal Mines Act, 1926, section three of the Coal Mines Regulation Act, 1908, shall have effect as if for the words “one hour” there were therein substituted the words “half an hour”:

Provided that, if an application, by agreement between representative organisations of the owners of and the workers employed in or about the coal mines in any district, is made to the Board of Trade in that behalf with the approval of the Mining Association of Great Britain and the Miners’ Federation of Great Britain, the Board of Trade shall make an order, which shall become effective forthwith, that the substitution of the words “half an hour” for the words “one hour” in section three of the Coal Mines Regulation Act, 1908, shall not

8 Edw. 7.  
c. 57.

apply as respects any mine in such district at which the daily hours below ground on an average taken over the twelve weekdays in any fortnight do not exceed the daily hours permissible under section one of the Coal Mines Regulation Act, 1908, as amended by the Coal Mines Act, 1919, by more than the extension of half an hour made under section three of the Coal Mines Regulation Act, 1908, as amended by the Coal Mines Act, 1926, and this section.

A.D. 1930.  
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PART III.  
—cont.  
9 & 10  
Geo. 5. c. 48.

At any mine where an extension of time is in any week made under the said section three, the workmen, by agreement between representatives of employers and workmen, may, notwithstanding anything in the Coal Mines Regulation Act, 1908, as amended by any subsequent enactment, begin their period of work on the Saturday of that week before twenty-four hours have elapsed since the beginning of their last period of work, so long as at least eight hours have elapsed since the termination thereof.

(2) This section shall come into operation at the expiration of the period of four months from the passing of this Act.

#### PART IV.

##### COAL MINES NATIONAL INDUSTRIAL BOARD.

15.—(1) The Board of Trade may by order constitute a Coal Mines National Industrial Board (in this section referred to as the "National Board") consisting of seventeen members appointed by the Board of Trade, so, however, that before appointing the members of the National Board other than the chairman, the Board of Trade shall consult the Mining Association of Great Britain as to six, the Miners' Federation of Great Britain as to six, the Federation of British Industries and the Association of British Chambers of Commerce as to one, and each of the following bodies as to one, that is to say—

Power to  
constitute  
Coal Mines  
National  
Industrial  
Board and  
functions  
thereof.

The General Council of the Trade Union Congress;  
The Co-operative Union;  
The National Confederation of Employers' Organisations;

and the Chairman of the National Board shall not be a member of any of the bodies aforesaid.

A.D. 1930.

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PART IV.  
—cont.

(2) Before appointing any person to fill a vacancy among the members of the National Board, the Board of Trade shall consult the body (if any) which they were required by this section to consult before appointing his predecessor. If a member becomes in the opinion of the Board of Trade unfit to continue in office or incapable of performing his duties under this Act the Board shall forthwith declare his office to be vacant and shall notify the fact in such manner as they think fit and thereupon the office shall become vacant.

A member may resign his office by notice in writing under his hand given to the Board of Trade.

(3) The Board of Trade may appoint a secretary to the National Board, and there shall be paid by the Board of Trade such remuneration (if any) to the chairman, such travelling and subsistence allowances to the chairman and members and such remuneration to the secretary of the National Board, and such other expenses of the National Board, as the Board of Trade, with the approval of the Treasury, may determine, and any expenses of the Board of Trade under this subsection shall be defrayed out of moneys provided by Parliament.

(4) Any agreement between the owners of, and the workers employed in or about, the coal mines in any district providing for the regulation of wages or other conditions of labour throughout the coal mines in the district may be sent to the National Board, and it shall be the duty of the National Board to record any agreement so sent.

(5) Where there exists, or is apprehended, any dispute between the owners of and the workers employed in or about the coal mines in any district as to the terms of a proposed agreement between such owners and workers providing for the regulation of wages or other conditions of labour throughout the coal mines in the district, and there has been a failure to settle the dispute in accordance with the arrangements existing in the district for the settlement thereof, either the owners or the workers may refer the dispute to the National Board who shall thereupon inquire into the dispute and report thereon to the owners and workers concerned.

(6) The Board of Trade may make rules regulating the procedure of the National Board, and those rules may, among other things, provide—

A.D. 1930.

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PART IV.

—cont.

(a) for enabling the National Board to act notwithstanding any vacancy in their number;

(b) for the hearing of a reference in public or in private, at the discretion of the National Board.

(7) There shall not be included in any report or publication made or authorised by the National Board any information, obtained by the National Board in the course of a reference to them, as to any trade union or as to any particular undertaking, which is not available otherwise than through evidence given during the reference, except with the consent of the secretary of the trade union or of the owner of the undertaking in question, and if any individual member of the National Board or any person concerned in the reference, without such consent, discloses any such information, he shall be liable on summary conviction to a fine not exceeding one hundred pounds.

## PART V.

### GENERAL.

16.—(1) The provisions of the Arbitration Act, 1889, shall not apply to any reference to the Coal Mines National Industrial Board, except in so far as any of the said provisions may be applied by the rules made under Part IV of this Act.

Application  
of 52 & 53  
Vict. c. 49.

(2) No scheme or rules approved or made under Part I of this Act shall exclude the application of the Arbitration Act, 1889, to any arbitration held in pursuance of that Part of this Act except in so far as that Act is inconsistent with that Part of this Act:

Provided that, where on any such arbitration an award is stated in the form of a special case for the opinion of the court under paragraph (b) of section seven of that Act, the decision of the High Court thereon shall be final.

17. The expenses of the Board of Trade which are by this Act directed to be defrayed out of moneys provided by Parliament shall not be taken into account in

Exclusion of  
10 & 11  
Geo. 5. c. 50,  
s. 5 (2).