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Commonwealth of Pennsylvania
Department of Mines



Anthracite Division

Annual Report

1951

Harrisburg, Pennsylvania

Richard Maize
Secretary of Mines

Joseph J. Walsh
Deputy Secretary of Mines

W. Garfield Thomas
Deputy Secy. Bituminous Div.



JOHN S. FINE
Governor of Pennsylvania

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF MINES

Harrisburg

May 1, 1952

To His Excellency, John S. Fine
Governor of Pennsylvania

Sir:

In compliance with the Act of April 14, 1903,
I submit herewith the report of the Department of Mines
for the year ending December 31, 1951, covering in
detail the operations in the Anthracite Region of
Pennsylvania.

Respectfully submitted,

Richard Maize
Richard Maize,
Secretary of Mines.



RICHARD MAIZE
Secretary of Mines

REPORT ON AN EXPLOSION OF GAS
IN THE
INMAN SHAFT, BUTTOWOOD COLLIERY
GLEN ALDEN COAL COMPANY

On March 29, 1951

MEMBERS OF COMMISSION

John D. Edwards
Mine Inspector, 13th District

Andrew Wilson
Mine Inspector, 7th District

David W. Cosslett
Mine Inspector, 9th District



April 25, 1951

Honorable Richard Maize
Secretary of Mines
Harrisburg, Pennsylvania

Dear Mr. Maize:

On March 29, 1951, at 10:30 A.M., an explosion of gas occurred at the Inman Shaft, Buttonwood Colliery, Glen Alden Coal Company, Hanover Township, Luzerne County, Pennsylvania, resulting in the death of five workmen and injuries to four others. The explosion occurred in #33 Tunnel East, Abbott seam, which averages 6 feet 4 inches in height. First mining is in progress and the chambers are driven 24 feet wide, on 55 foot centers. The average pitch of the seam is 45 degrees and coal from the face area flows to the car on the gangway by gravity. The workings at the location of the accident underlie the surface at a depth of 657 feet. Seventeen workmen were in this section at the time of the accident.

The active working places consisted of the gangway, airway and eight chambers, designated as chambers number 7 to 14, inclusive. The gangway, airway and chambers number 8 and 10 were not working on the day of the explosion.

The section is ventilated by two fans, one electric and one steam driven, located on the surface. The total quantity of air entering the section on March 30 was 14,400 c. f. m. This current travels directly to the face of the gangway, thence through the airway and chambers to the return. Crosscuts between the intake and return are closed with concrete walls. Small openings in the walls to permit the passing of workmen and coal are closed with canvas. Board stoppings are used to close the crosscuts between chambers. The pressure recording charts indicated the fans were in continuous operation on the day of the accident.

Permissible electric cap lamps are used by all the workmen and all miners are furnished with permissible flame safety lamps. Compressed air-driven jackhammers are used for blasting.

An electric locomotive, equipped with trolley and reel cable is used for transportation. Operation of this locomotive is

confined to the gangway, and in intake air.

Property damage was slight, and consisted of the destruction of several board stoppings and dislodgment of brattices and props in several of the chambers. Rescue and recovery operations were started at once by workmen and officials in the section. Victims and survivors were removed to the surface by 12 noon.

Our investigation consisted of an examination of the affected section and the equipment used therein, examination of legal records, testing of the flame safety lamps used in this area, and after the restoration of the ventilation, a thorough search for the cause of the accumulation and the source of the ignition. A test was made in chamber 11, where, we are of the opinion, the gas was ignited, to determine the cause of its accumulation.

The ventilation was short circuited to permit gas to accumulate in the face. It was determined that it required two hours and 15 minutes to completely fill the chamber area from the face to the upper rib of the crosscut, a distance of 18 lineal feet. It is possible that some gas had accumulated in the face of chamber 10, as the line brattice in this chamber had not been extended beyond the lower rib of the face crosscut. The accumulation, when ignited, expanded to the extent that the flame reached #9 chamber, a distance of 110 feet.

It was determined from the testimony that the miners and laborers, upon arrival at the foot of their places at the start of the shift, drew two cars each from the chutes before they proceeded to the faces of their chambers. Approximately one hour elapsed while this work was being done.

On the morning of the accident, the fire boss, Anthony Soldon, was assigned by the section foreman, to measure yardage, props, etc., for the semi-monthly payment for these items. To complete this work, he took with him a mason. It appears that they started at the gangway face and worked out to chamber 11, where they were measuring the length of the crosscut to chamber 10, when the gas was ignited. The fire boss's notebook was found in this crosscut, and according to entries made in this book, he had credited the miner in chamber 11 with the erection of two check brattices for this pay period.

Of the eight working chambers located in this area, included in the numbers 7 to 14, chamber 8 had been stopped temporarily and chamber 10 was worked on the afternoon shift only. On the day previous to the accident, the miner employed in chamber 11 had tapped the crosscut through to chamber 10. When the miner in chamber 10 arrived at his place on the afternoon shift, the day prior to the accident, he worked in the crosscut, enlarging the opening. He and his laborer then closed the next crosscut below with brattice boards. Because of the closing of this crosscut, the logical thing for the miner in chamber 11 to do on the following day would be to erect a check brattice partly across this chamber at the lower rib of the new crosscut, thence from this check brattice extend the line brattice toward the face, which was 18 feet beyond the upper rib of the face crosscut. We are of the opinion that to do this some of the original brattice was removed, permitting the air to travel diagonally across chamber 11 to the crosscut, bypassing the face area in chamber 11 entirely. We believe that gas was present in the face of chamber 11 when the fire boss arrived, and that it continued to accumulate while the measurements were being completed.

It is our opinion that the work of erecting the two brattices

for which the miner had been given credit was only partly completed, and that the fire boss and the mason, leaving the miner to complete this work and remove the gas, were preparing to leave chamber 11 by way of the crosscut to chamber 10 when the explosion occurred.

The miner in chamber 11 made the statement several times on his way out of the mine after the explosion that, "the safety lamp had exploded." He also repeated this statement in the hospital before his death. Following the accident his safety lamp was found on the floor of the chamber near the lower rib of the face crosscut. At the upper rib of the crosscut is a prop, with two nails three inches from the roof, where the lamp was evidently hung. Numerous tests were made with the lamp in a testing cabinet, under the most severe conditions, ranging from the lowest to the highest explosive limits, using propane gas, and under no conditions were we able to produce an ignition within the cabinet. Exhaustive tests were also made with this lamp at the Bureau of Mines laboratory in Pittsburgh, and we were unable to cause an explosion.

The flame area resulting from the ignition extended downward in chamber 11 and across the faces of chambers 10 and 9. The miner and laborer from chamber 11, the fire boss and the mason in the crosscut between chambers 11 and 10, and the miner and the laborer in chamber 9 were badly burned, and with the exception of the laborer in chamber 9, have died as a result. The force of the explosion, which we believe not to have been severe, caused slight injuries to the miner and the laborer in chamber 7 and to the bratticeman, who was on the gangway.

After the ventilation was re-established, a methane reading of .3% was obtained in the return air from this section. A feeder in the blind crosscut on the left side of chamber 11, near the face, was liberating methane freely, as was the face of the chamber.

The cause of the ignition could not be positively determined. There was no indication or evidence that smoking had taken place in this section. No blasting of coal or rock in the area had been done for a period of three hours prior to the ignition. Ignition from electrical sources seems remote. No electrical equipment, tracks or power lines were used in the chambers. Trolley wire and electrical locomotives are confined to the gangway on intake air. The track was well laid and bonded.

On our preliminary examination of this area on the day of the accident, and the complete examination on the following day, the fire boss's dates for the 29th of March were observed from the gangway out to and including chamber 11. No dates were found in chambers 10, 9, 8, or 7. On subsequent examinations on April 3 and 4, four days later, at the suggestion of the Secretary of Mines, dates were found for the 29th of March in chambers 7 and 8. However, the initials in these instances were not such as to prove conclusively to be those of the fire boss. On the report book for this date entry had been made and signed by the fire boss, noting examinations of this area prior to the entry of the workmen. Some of the workmen employed in the working chambers inside chamber 11 stated that the official had a flame safety lamp with him and tested for gas in their places when he visited them. However, the flame safety lamp furnished the fire boss was found, after the explosion, hanging on a prop underneath his jacket, at a point near the outside end of #33 tunnel, a distance of 900 feet from chamber 11.

SUMMARY OF FINDINGS

1. Permissible flame safety lamps and electric cap lamps are used in the mine.
2. Compressed air-driven jackhammers are used for drilling purposes.
3. Permissible powder is used for blasting coal.
4. An open-type electric trolley and reel cable locomotive was used on the gangway in intake air, and was not near the affected area at the time of the explosion.
5. The flame safety lamp furnished the fire boss was not in his possession when the explosion occurred. It was found at a location 900 feet outside of chamber 11.
6. The flame safety lamp used by the miner in chamber 11 was subjected to exhaustive tests in gaseous mixtures, without a failure.

CONCLUSIONS

1. The source of the methane was a feeder in the blind crosscut on the left of chamber 11, and others in the face of this chamber.
2. The cause of the accumulation was the failure to conduct the ventilating current to the face of chamber 11 by means of brattice.
3. The source of the ignition was undetermined. No indications of smoking were found. No blasts were fired. Electricity is not used in the chambers. The flame safety lamp was subjected to numerous and exhaustive tests, without failure.

RECOMMENDATIONS

1. That officials carry their flame safety lamps at all times while in the mine.
2. That when accumulations of gas are found, all workmen except those necessary to remove the danger be immediately withdrawn from the section.
3. That brattice be maintained and ventilation so conducted at all times in such manner as to prevent the accumulation of a dangerous body of gas.
4. That the faces of chambers or breasts, especially those on heavy pitch, be not advanced beyond the upper rib of the face crosscut until the crosscut is completed.
5. That officials whose duty it is to examine places in a mine prior to the entrance of the workmen, make a

careful and thorough examination of all such places and mark plainly the date at the face of each place examined.

6. That officials whose duty it is to examine places while the men are at work, complete their examination and supervise the removal of all dangers before performing any other work.

While conducting our investigation and during the interrogation of the local colliery officials and workmen, which required several days, three representatives of the United States Bureau of Mines were present.

Yours very truly,

(Signed) John D. Edwards
Mine Inspector, 13th District

(Signed) Andrew Wilson
Mine Inspector, 7th District

(Signed) David W. Cosslett
Mine Inspector, 9th District

Production, How Shipped, Average Days Worked, Employees, Explosives, Fatal and Non-fatal Accidents, and Man-days

By Inspection District - 1951

District	Production - net tons					Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents	Man-days
	Shipped to market		Sold to local trade	Used at colliery for steam and heat	Total production								
	By railroad	By truck											
1	1,509,180	54,443	163,839	3,657	1,731,119	27,175	688,296	872,311	225	2278	3	194	513,065
2	897,018	104,337	152,987	52,249	1,206,591	175,800	59,496	848,900	235	1980	4	192	465,000
3	1,323,797	7,468	140,260	83,812	1,555,337	426,450	159,793	710,275	210	2968	3	256	623,618
5	1,030,842	96,835	189,570	37,910	1,355,157	72,000	179,834	755,015	235	3336	3	287	784,960
6	693,570	146,163	193,089	6,502	1,039,324	-	1,282,226	418,225	219	1691	4	152	371,162
7	782,566	70,829	46,498	27,152	927,045	-	452,575	1,556,875	220	2375	3	227	522,735
8	1,069,701	18,312	221,760	7,194	1,316,967	-	1,189,746	980,975	226	2734	2	266	620,282
9	760,967	79,267	181,072	31,736	1,053,042	-	155,880	735,750	240	2466	8	284	590,900
10	932,606	41,442	172,970	55,275	1,202,293	25,000	681,489	501,400	231	2288	3	262	528,268
11	1,191,604	50,182	196,621	72,375	1,510,782	11,750	879,109	591,575	222	3279	3	369	728,103
12	1,492,230	36,703	318,668	88,499	1,936,100	12,575	935,125	889,450	243	4194	3	403	1,019,921
13	1,078,272	1,012	204,796	37,474	1,321,554	-	1,066,595	764,000	219	3654	8	429	800,578
14	1,558,721	136,235	91,255	85,663	1,871,874	-	144,975	1,674,112	235	3560	5	507	837,015
15	1,087,392	362,490	161,061	17,466	1,628,409	-	2,986,500	409,650	228	2478	-	262	564,380
17	1,819,575	440,663	121,296	23,614	2,405,148	-	2,309,481	657,829	235	3758	4	360	881,515
18	1,806,230	130,206	64,943	85,112	2,086,491	-	1,601,708	691,450	227	4220	5	373	957,507
19	1,362,649	543,497	159,124	7,964	2,073,234	-	4,577,356	646,585	217	2398	1	186	520,825
20	2,337,466	269,585	186,246	42,844	2,836,141	-	5,634,919	805,483	212	4144	7	435	880,276
21	1,006,074	317,830	93,851	11,450	1,429,205	-	2,563,080	404,850	215	1700	1	105	365,000
22	1,630,248	238,066	58,057	44,205	1,970,576	-	6,306,926	704,380	230	3073	4	320	705,791
23	1,912,546	227,634	104,678	45,299	2,290,157	-	1,611,418	470,275	197	3183	6	283	625,638
24	2,686,536	576,599	145,506	5,856	3,414,497	-	1,813,342	327,310	256	2213	2	245	566,772
25	705,517	183,616	30,173	3,444	922,750	-	268,296	246,421	204	1372	3	100	280,000
26	1,663,104	262,919	48,147	39,032	2,013,202	-	1,626,435	201,775	195	2786	7	186	543,349
27	799,437	383,759	77,373	31,491	1,292,060	-	822,915	612,417	188	2229	-	141	418,340
	33,137,848	4,780,092	3,523,840	947,275	42,389,055	750,750	39,997,515	17,477,288	233	70,357	92	6,824	15,715,000

ANTHRACITE PRODUCTION (DEEP MINED, STRIPPING AND BANK), EMPLOYES AND FATALITIES

BY COUNTY

YEAR 1951

County	Deep mined	Stripping	Bank	Total production	Employees	Fatalities
Carbon	1,111,627	511,079	271,329	1,894,035	3,872	4
Columbia	518,067	399,142	37,968	955,177	1,496	3
Dauphin	11,638	15,546	2,949	30,133	153	-
Lackawanna	4,350,615	1,155,320	269,873	5,775,808	10,410	13
Luzerne	11,564,717	2,661,022	656,693	14,882,432	30,596	42
Northumberland	2,626,658	1,604,396	1,518,913	5,749,967	5,583	8
Schuylkill	5,926,758	5,029,874	2,064,447	13,021,079	18,159	22
Sullivan	28,762	-	-	28,762	79	-
Susquehanna	-	-	21,662	21,662	9	-
Wayne	-	-	-	-	-	-
Region	26,168,842	11,376,379	4,843,834	42,389,055	70,357	92

Total Production of Coal, Production from Strippings & Washeries,
Employees, Fatalities, Etc.

1870 - 1951

Year	Total production (net tons)	Washery production (net tons)*	Stripping production (net tons)*	Employees	Fatalities	Production per fatality	Fatalities per million tons	No. of inspectors
1870	14,172,004			35,600	211	67,166	14.89	5
1871	15,532,252			37,488	210	73,963	13.52	5
1872	15,567,973			44,745	223	69,811	14.32	5
1873	21,001,521			48,199	264	79,551	12.57	5
1874	19,930,240			53,402	231	86,278	11.59	5
1875	23,402,646			69,966	238	98,330	10.17	6
1876	23,440,666			70,474	228	102,810	9.73	6
1877	24,727,213			66,842	194	127,460	7.85	6
1878	20,900,966			63,964	187	111,770	8.95	6
1879	31,036,600			68,847	262	118,460	8.44	6
1880	27,974,532			73,373	202	138,488	7.22	6
1881	34,202,558			76,031	273	125,284	7.98	7
1882	35,057,430			82,200	295	118,839	8.41	6
1883	37,747,369			91,421	323	116,865	8.56	6
1884	36,468,738			101,073	332	109,846	9.10	6
1885	38,232,155			100,320	332	115,157	8.68	7
1886	38,950,932			103,044	279	139,609	7.16	7
1887	42,156,300			106,517	316	133,406	7.50	7
1888	46,635,037			122,218	364	128,118	7.81	8
1889	43,650,768			119,646	397	109,952	9.09	8
1890	44,986,286			119,919	378	119,011	8.40	7
1891	49,701,322			123,308	428	116,125	8.61	8
1892	51,226,978			130,300	418	122,553	8.16	8
1893	52,841,110			138,069	456	115,880	8.63	8
1894	50,966,920	386,960		139,939	446	114,276	8.75	8
1895	56,948,756	686,534		143,705	421	135,270	7.39	8
1896	53,843,250	527,809		150,088	502	107,257	9.32	8
1897	52,581,036	732,743		149,557	423	124,305	8.04	8
1898	52,812,675	697,759		142,420	411	129,498	7.78	8
1899	60,518,331	1,055,426		140,604	461	131,276	7.62	8
1900	57,363,396	1,818,170		143,824	411	139,570	7.16	8
1901	67,094,665	2,009,864		147,651	513	130,789	7.65	8
1902	41,340,935	2,965,792		148,139	300	137,803	7.26	8
1903	75,232,585	4,119,258		151,827	518	145,237	6.89	15
1904	73,594,369	3,440,420		161,330	595	123,688	8.08	15
1905	78,647,020	3,897,688		168,254	644	122,123	8.19	15
1906	72,139,510	4,880,402		166,175	557	129,514	7.72	19
1907	86,056,412	5,630,169		168,774	708	121,549	8.23	20
1908	83,543,243	4,635,923		174,503	678	123,220	8.12	20
1909	80,223,833	5,206,562		171,195	567	141,488	7.07	20
1910	83,683,994	5,412,167		168,175	601	139,241	7.18	20
1911	90,917,176	4,555,457		173,338	699	130,067	7.69	21
1912	84,426,869	4,317,161		175,098	601	140,477	7.12	21
1913	91,626,964	2,934,157		175,310	624	146,838	6.81	21
1914	91,189,641	2,702,537		180,899	600	151,983	6.58	21
1915	89,377,706	3,418,427		177,339	588	152,003	6.58	21
1916	87,680,198	4,432,606		159,169	565	155,186	6.44	25
1917	100,445,299	6,408,277		156,148	581	172,883	5.78	25
1918	99,445,794	7,246,454		148,226	556	178,859	5.59	25
1919	87,838,024	3,616,675		153,780	636	138,110	7.24	25
1920	89,636,036	5,435,697		149,117	490	182,931	5.47	25
1921	90,358,642	1,842,096		161,926	546	165,492	6.04	25
1922	53,910,201	2,525,402		159,880	300	179,701	5.56	25
1923	92,653,641	4,212,001		158,764	515	179,910	5.56	22
1924	87,277,449	1,141,796		162,503	496	175,963	5.68	22

Total Production of Coal, Production from Strippings & Washeries,
Employees, Fatalities, Etc.

1870 - 1951

Year	Total production (net tons)	Washery production (net tons)*	Stripping production (net tons)*	Employees	Fatalities	Production per fatality	Fatalities per million tons	No. of inspectors
1925	61,334,145	894,187		163,825	401	152,953	6.54	18
1926	83,874,500	1,365,175		168,734	455	184,340	5.42	18
1927	79,367,154	1,841,440		167,648	492	161,315	6.20	25
1928	74,552,312	1,614,863		160,721	447	166,784	6.00	25
1929	72,985,844	878,599		153,422	483	151,109	6.62	25
1930	68,776,559	890,389		151,171	444	154,902	6.46	25
1931	59,115,387	1,468,572		138,400	384	153,946	6.50	25
1932	49,501,511	1,062,858	3,545,948	119,480	243	203,710	4.91	21
1933	49,507,577	2,090,996	4,308,811	102,469	232	213,395	4.69	21
1934	56,798,951	1,516,393	4,461,894	106,251	260	218,458	4.58	19
1935	51,359,111	1,876,700	4,962,514	100,539	267	192,356	5.20	17
1936	54,264,016	1,411,988	3,757,678	99,704	241	225,162	4.44	16
1937	51,700,296	1,882,026	5,014,052	99,117	212	243,869	4.10	22
1938	46,269,511	2,031,432	5,080,344	96,998	223	207,487	4.82	20
1939	51,399,707	2,347,269	5,308,049	93,352	210	244,761	4.09	24
1940	51,526,454	2,599,280	6,010,364	90,790	182	283,112	3.53	23
1941	53,942,177	3,689,538	7,855,945	88,849	189	285,408	3.50	22
1942	57,939,629	4,045,970	9,657,307	83,707	225	257,509	3.88	22
1943	60,511,730	7,715,860	8,688,896	79,369	218	277,577	3.60	23
1944	64,112,589	10,527,481	10,925,619	78,145	171	374,927	2.67	24
1945	55,901,235	9,454,205	10,521,174	76,265	137	408,038	2.45	23
1946	61,978,710	9,214,678	12,912,992	80,556	169	366,738	2.73	24
1947	58,227,985	7,076,796	12,691,382	80,730	165	352,897	2.83	24
1948	59,108,810	6,735,688	13,485,837	80,390	131	451,212	2.22	26
1949	44,710,118	4,823,144	11,081,087	79,209	92	485,980	2.06	26
1950	46,339,255	4,027,249	12,291,325	75,231	86	538,829	1.86	25
1951	42,389,055	4,843,834	11,376,379	70,357	92	460,751	2.17	25

* Included in total production

No accurate record previous to 1870

† No accurate record previous to 1894

% No accurate record previous to 1932

See

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF MINES

Anthracite Division

Year 1951

Tons of Coal Mined, Days Worked, Persons Employed, Killed & Injured, Explosives, etc.

FIRST DISTRICT

J. F. Munley, Inspector
166 Spruce Street
Archbald, Penna.

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to local	Used at colliery for steam and heat								
		By railroad	By truck	trade									
A. & F. Coal Co. Mine	Lackawanna	-	2,104	-	-	2,104 a	-	3,100	3,625	97	9	-	-
Blasi Coal Co. Mine	"	5,953	-	-	-	5,953 b	-	200	1,500	237	13	-	-
Bliss Coal Co. Stripping	"	7,246	-	-	-	7,246 b	-	600	-	165	8	-	-
Booth, John, Inc. Stripping	"	215,931	-	-	-	215,931 b	-	127,100	-	252	52	1	-
Botscheller Coal Co. Stripping	"	6,628	-	-	-	6,628 c	-	375	1,750	179	6	-	-
Burke Coal Co. Stripping	"	120,661	-	-	-	120,661 b	-	152,550	-	330	68	-	-
DeAngelis Coal Co. Archbald Mtn. (B)	"	49,208	-	32,170	185	81,563 m-c	-	5,925	39,550	236	90	1	-
Bolands (B) Stripping	"	15,411	-	-	-	15,411 m	-	575	9,500	116	115	-	29
		77,766	-	-	-	77,766 c	-	79,950	2,475	152	32	-	-
Total for Co.		142,385	-	32,170	185	174,740	-	86,450	51,525	237	1	29	
Dewees Bros. Coal Co. Stripping	"	72,469	-	-	-	72,469 b	-	115,350	-	284	47	-	-
Dwonecyk Coal Co. Mine	"	6,816	-	-	-	6,816 b	-	2,100	9,300	238	14	-	1
Eddie & Joe Coal Co. Mine	"	7,428	7,860	-	-	15,288 d-e	-	2,075	29,750	119	36	-	2
Casparini Coal Mng. Co. Stripping	"	173	-	-	-	173 b	-	-	-	2	8	-	-

FIRST DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to local	Used at colliery for steam and heat								
		By railroad	By truck	trade									
Gateway Coal Co. Forest City	Lacka.	1,467	-	-	-	1,467 m-f	-	500	1,700	68	11	-	-
Stripping	"	2,733	-	-	-	2,733 f	-	-	-	68	7	-	-
Washery (B)	Susquehanna	21,662	-	-	-	21,662 bk	-	-	-	86	9	-	-
Total for Co.		25,862	-	-	-	25,862	-	500	1,700	27	-	-	
Gianfororo Coal Co. Mine	Lacka.	7,921	-	-	-	7,921 b	-	275	1,100	237	20	-	6
Gillen Coal Co. Mine	"	43,967	-	-	-	43,967 b	-	225	28,125	213	56	-	6
Stripping	"	25,235	-	-	-	25,235 b	-	4,000	-	344	21	-	-
Total for Co.		69,202	-	-	-	69,202	-	4,225	28,125	77	-	6	
Gravine Coal Co. Mine	"	6,577	-	-	-	6,577 g	-	325	23,375	253	13	-	1
Hudson Coal Co. Coal Brook	"	168,728	-	-	-	168,728 m-b	-	11,022	121,275	238	292	-	18
Gravity Slope	"	126,231	-	-	-	126,231 m-b	-	7,924	88,781	237	163	-	13
Powderly (B)	"	58,497	-	-	-	58,497 bk	-	-	-	238	115	-	6
Total for Co.		353,456	-	-	-	353,456	-	18,946	210,056	570	-	37	
Lackawanna Cinder & Silt Co. Bank	"	-	-	17,598	-	17,598 h	-	-	-	218	6	-	-
Mazzoni Coal Co. Mine	"	17,949	-	-	-	17,949 b	9,000	725	19,000	224	21	-	-
Motley Coal Co. Erie (B)	"	13,601	-	16,399	224	30,224 m	7,125	2,925	29,000	156	90	-	23
Stripping	"	4,843	-	6,269	-	11,112 d	-	-	-	274	7	-	-
Bank	"	16,261	-	-	-	16,261 b	-	-	-	25	9	-	-
Total for Co.		34,705	-	22,668	224	57,597	7,125	2,925	29,000	106	-	23	
Nayduck Coal Co. Stripping	"	11,173	-	-	-	11,173 b-o	-	1,750	1,000	73	28	-	-
Northwest Coal Co. Raymond (B)	"	78,992	-	54,380	600	133,972 m	-	-	101,180	182	246	1	33
Stripping	"	12,180	-	-	-	12,180 i	-	21,900	-	258	21	-	-
Total for Co.		91,172	-	54,380	600	146,152	-	21,900	101,180	267	1	33	

FIRST DISTRICT, CONTINUED

		Production - net tons					Pounds			Fatal		Non-
		: Shipped to market :		Sold	Used at	: Pounds		Pounds permiss- ible ex- plosives used	Days worked	Empl- oyes	acci- dents	fatal acci- dents
Operators & collieries	County	By	By	to	for steam	black	dynamite					
		railroad	truck	local	and heat	powder	used					
Penbrook Coal Co. Penbrook (B)	Lacka.	-	-	-	-	j	-	-	168	5	-	-
Perry Construc'n. Co. Stripping	"	1,846	-	-	-	c-p	-	1,600	26	14	-	-
Pioneer City Coal Co. Racket Brook (B) Stripping	"	11,278 54,235	2,311 11,465	- 3,264	- 1,438	m	9,400	- 60,250	144 180	84 27	- -	12 -
Total for Co.		65,513	13,776	3,264	1,438		9,400	60,250	144	111	-	12
Ploskonka Coal Co. Mine	"	33,473	-	-	-	b	-	10,200	238	46	-	-
Pompey Coal Co. Pompey (B) Stripping	"	112,056 9,112	11,981 169	8,416 119	79 2	m	-	49,375	266 92	224 14	- -	37 -
Total for Co.		121,168	12,150	8,535	81		-	49,375	238	238	-	37
Putman, N. B. Stripping	"	6,128	-	-	-	c	-	325	108	8	-	-
Sacco Coal Co. Mine	"	-	2,140	-	-	k-q	1,125	100	92	9	-	1
Salvaggio Coal Co. Mine	"	-	1,124	-	-	k-r	-	-	88	9	-	-
Simpson Coal Co. Northwest (B) Stripping	"	3,565 2,094	8,518 5,002	4,725 2,775	330 270	m	-	7,000	230 236	49 9	- -	3 -
Total for Co.		5,659	13,520	7,500	600		-	9,400	58	58	-	3
Sunshine Coal Co. Mine	"	6,725	585	-	-	g	50	2,200	218	10	-	-
Surace Coal Co. E. & A. (B)	"	-	1,184	-	-	l-s	-	-	25	9	-	-
Tolerico Coal Co. Stripping	"	29,514	-	-	-	n	-	3,900	273	23	-	-
Waddell Coal Co. Waddell (B) Stripping	"	34,213 1,234	-	17,107 617	529	m	475	6,775	226 173	99 6	- -	3 -
Total for Co.		35,447	-	17,724	529		475	9,475	105	105	-	3

FIRST DISTRICT, CONTINUED

		Production - net tons					Pounds			Fatal		Non-
		: Shipped to market :		Sold	Used at	: Pounds		Pounds permiss- ible ex- plosives used	Days worked	Empl- oyes	acci- dents	fatal acci- dents
Operators & collieries	County	By	By	to	for steam	black	dynamite					
		railroad	truck	local	and heat	powder	used					
Total for district		1,509,180	54,443	163,839	3,657		27,175	688,296	872,311	2278	3	194

(B) Breaker

a - Coal prepared at Penbrook breaker	"	of Hudson Coal Co.	j - Preparation only
b - " " Powderly	"		k - Coal prepared at Ace breaker, 2nd district
bk - Bank coal	"		l - Breaker burned down in May
c - Coal prepared at Bolands	"	of DeAngelis Coal Co.	m - Deep mined coal
d - " " Erie	"	of Motley Coal Co.	n - Coal prepared at Consagra (2nd), Erie, Penbrook, Raymond, of North-
e - " " Waddell	"		west Coal Co., and Northwest breaker, of Simpson Coal Co.
f - " " Powderly	"	and Consagra breaker, 2nd dist.	o - Discontinued operation in April
g - " " Pompey	"		p - " " " September
h - Coal sold unprepared			q - " " " May
i - Coal prepared at Raymond	"	of Northwest Coal Co.	r - " " " June
			s - Stripping coal

Deep mined coal - 923,326 tons
Stripping coal - 693,775 "
Bank coal - 114,018 "

SECOND DISTRICT

T. L. Wackley, Inspector
1801 N. Washington Ave.
Scranton, Penna.

Operators & collieries	County	Production - net tons					Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to	Used at	Total								
		By railroad	By truck	local trade	colliery for steam and heat									
Ace Coal Co. (B)	Lacka.	2,164	5,146	998	17	8,325 m	-	1,075	13,650	228	33	-	6	
A. & M. Coal Co. Mine	"	2,768	1,363	-	-	4,131 a	-	100	2,250	219	6	-	-	
A. & R. Coal Co. Mine	"	3,901	1,922	-	-	5,823 a	-	150	5,175	248	10	-	-	
Blue Flame Coal Co. Mine	"	11,806	2,083	-	-	13,889 b	-	1,125	14,375	254	20	-	1	
Butler & Kalata Stripping i	"	1,445	317	-	-	1,762 c	-	-	-	25	7	-	-	
Carson Coal Co. Stripping j	"	4,871	541	-	-	5,412 d	-	-	-	89	7	-	-	
C. & L. Coal Co. Mine	"	2,258	5,271	-	-	7,529 e	-	925	15,100	246	12	-	2	
Consagra Coal Co. Consagra s	"	-	-	-	-	-	-	-	-	21	21	-	-	
DeAngelis Coal Co. Mine t	"	4,956	-	-	-	4,956 g	-	900	2,725	196	16	-	2	
Fabri Coal Co. Mine	"	3,222	1,587	-	-	4,809 a	-	75	4,750	188	7	-	1	
F. & G. Coal Co. Mine	"	680	1,588	-	-	2,268 e	-	450	3,700	169	8	-	3	
Gasparini Excav. Co. Stripping	"	26,002	14,282	-	-	40,284 h	-	9,287	-	284	28	-	1	
G. & S. Coal Co. Mine u	"	1,858	915	-	-	2,773 a	-	50	2,675	131	9	-	1	
Hudson Coal Co. Eddy Creek	"	512,677	-	96,222	50,847	659,746 m	174,900	22,934	391,800	240	1018	3	111	
Mt. Alden Coal Co. Breaker (B) v	"	-	-	-	-	-	-	-	-	60	9	-	1	

SECOND DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to	Used at	Total								
		By railroad	By truck	local trade	colliery for steam and heat									
Moosic Mtn. Coal Co. Breaker (B)	Lacka.	-	-	-	-	-	-	-	-	178	23	-	-	
Bank	"	10,330	-	-	-	10,330 a	-	-	-	104	4	-	1	
Stripping	"	3,197	1,575	-	-	4,772 a	-	575	-	124	4	-	-	
Total for Co.		13,527	1,575	-	-	15,102	-	575	-		31	-	1	
Ondrick Coal Co. Mine u	"	1,021	-	-	-	1,021 k	-	150	400	117	8	-	-	
Pennsylvania Coal Co. Underwood (B)	"	119,321	-	55,767	1,385	176,473 l	-	-	164,850	193	489	-	62	
Perry Construc'n. Co. Stripping	"	77,624	4,881	-	-	82,505 o	-	12,000	-	298	23	-	-	
Rosetti Coal Co. Mine	"	2,054	1,156	-	-	3,210 n	800	-	2,825	273	6	-	-	
Smith Coal Co. Mine	"	461	1,077	-	-	1,538 e	-	125	900	182	6	-	-	
Snyder Coal Co. Mine	"	15,417	8,672	-	-	24,089 n	-	1,800	38,700	229	28	-	1	
Sobleskie Coal Co. Mine	"	13,708	7,712	-	-	21,420 n	-	375	35,950	245	24	-	2	
Swoyer Coal Co. Mine	"	3,613	1,779	-	-	5,392 h	-	50	2,725	199	14	-	-	
Throop Mining Co. Mine	"	1,140	10,862	-	-	12,002 f	100	1,175	8,500	239	8	-	-	
Turnpike Coal Co. Mine	"	32,607	17,710	-	-	50,317 p	-	3,025	80,700	231	61	1	6	
Venture Coal Co. Mine	"	5,937	2,924	-	-	8,861 a	-	75	4,650	244	13	-	-	
Village Slope Coal Co. Mine	"	28,687	9,562	-	-	38,249 q	-	2,500	52,500	208	53	-	-	
Vispi Coal Co. Stripping	"	3,293	1,412	-	-	4,705 r	-	575	-	157	5	-	-	
Total for district		897,018	104,337	152,987	52,249	1,206,591	175,800	59,496	848,900		1980	4	192	

SECOND DISTRICT, CONTINUED

		Production - net tons					Pounds		Pounds	Days	Empl-	Fatal	Non-
		: Shipped to market :		Sold	Used at	: Pounds		permiss-			fatal	fatal	
		: By :		to	colliery	: black		ible ex-			acci-	acci-	
Operators & collieries	County	By	By	local	for steam	Total	powder	dynamite	plosives	worked	eyes	dents	dents
		By	By	trade	and heat	production	used	used	used				
(B) Breaker													
a -	Coal prepared at Moosic Mtn. breaker												
b -	" " Pompey				2nd district								
c -	" " Bolands				DeAngelis Coal Co., 1st district, and Mt. Alden breaker								
d -	" " Marvine				Hudson Coal Co., 5th "								
e -	" " Ace												
f -	Includes 3,800 tons deep mined coal, prepared at Ace breaker, and 8,208 tons bank coal, sold unprepared												
g -	Includes 1,424 tons stripping coal. Mine and strip coal prepared at Bolands breaker, 1st district												
h -	Coal prepared at Pompey & Waddell breakers, 1st dist., Ace breaker, 2nd district, and Meadowside breaker, 3rd district												
i -	Discontinued operation in January												
j -	" " " April												
k -	Coal prepared at Waddell breaker, 1st district												
	Deep mined	-		1,023,132	tons								
	Stripping	-		141,988	"								
	Bank	-		41,471	"								

THIRD DISTRICT

		Production - net tons					Pounds		Pounds	Days	Empl-	Fatal	Non-
		: Shipped to market :		Sold	Used at	: Pounds		permiss-			fatal	fatal	
		: By :		to	colliery	: black		ible ex-			acci-	acci-	
Operators & collieries	County	By	By	local	for steam	Total	powder	dynamite	plosives	worked	eyes	dents	dents
		By	By	trade	and heat	production	used	used	used				
W. G. Ward, Inspector 119 First St., Blakely Olyphant, Penna.													
Belleuve Coal Co.	Lacka.	24,139	-	-	-	24,139	bk	-	-	303	28	-	-
Belleuve (B)													
Ellis Coal Co.	"	3,954	-	-	-	3,954	a	-	-	95	10	-	-
Bank		590	-	-	-	590	a	-	250	48	5	-	-
Stripping													
Total for Co.		4,544	-	-	-	4,544	-	250	-	15	-	-	-
Hudson Coal Co.	"	465,218	-	30,523	61,023	556,764	m	376,425	26,698	163,000	240	1182	2 95
Olyphant (B)													
Bank		1,117	-	-	17,021	18,138	-	-	-	240	2	-	-
Total for Co.		466,335	-	30,523	78,044	574,902	-	376,425	26,698	163,000	1184	2	95
Keyser Valley Coal Co.	"	6,996	-	3,498	106	10,600	b	-	825	6,150	226	32	-
Mine													
Capouse Shaft *		1,824	-	812	27	2,663	b-m	-	250	3,750	45	54	- 2
" Stripping		2,177	-	1,088	33	3,298	b	-	2,800	-	36	11	- 1
Total for Co.		10,997	-	5,398	166	16,561	-	-	3,875	9,900	97	-	3
M. & B. Coal Co.	"	3,660	-	1,885	-	5,545	b	-	120	1,000	241	10	-
Mine													
Meadowside Coal Co.	"	6,701	1,341	894	-	8,936	m	-	600	16,400	232	65	- 1
Meadowside (B)													
Bank		10,014	3,338	-	-	13,352	a	-	-	71	27	-	-
Stripping		13,943	2,789	1,859	-	18,591	a	-	17,000	-	158	9	-
Total for Co.		30,658	7,468	2,753	-	40,879	-	-	17,600	16,400	101	-	1
Moffat Coal Co. Interests	"	1,739	-	217	20	1,976	c	-	1,800	-	46	16	-
Brisbin Stripping													
Cayuga		93,427	-	9,080	1,566	104,073	c-m	8,825	5,375	35,725	197	194	- 18
Diamond													
Diamond Stripping		29,691	-	510	1,041	31,242	c	-	26,550	225	300	36	-
Rockwell		41,371	-	5,229	405	47,005	c-m	-	700	32,200	197	84	- 5
Rockwell Stripping		28,224	-	3,631	249	32,104	c	-	1,000	1,375	287	18	-
Storrs		436,015	-	66,868	1,373	504,256	d-m	41,200	74,475	360,800	193	968	1 113
Storrs Stripping		43,224	-	6,629	136	49,989	d	-	350	41,900	312	27	- 1
West Mtn. Stripping		105	-	13	-	118	c	-	75	-	23	4	-
Total for Co.		673,796	-	92,177	4,790	770,763	-	50,025	110,325	472,225	1351	1	137

THIRD DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Pounds black powder used	Pounds dynamite used	Pounds permis- sible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non- fatal acci- dents
		Shipped to market		Sold	Used at	Total							
		By railroad	By truck	to local trade	colliery for steam and heat								
Nay Aug Coal Co.	Lacka.	56,780	-	-	-	56,780	bk	-	-	157	30	-	-
Nay Aug (B)	"												
Northwest Coal Co.	"	396	-	-	-	396	e	-	750	38	15	-	-
Mine	"												
Penn Anthracite Co.	"	3,707	-	1,853	56	5,616	b-m	-	575	49	50	-	4
Capouse Shaft *	"	1,790	-	895	27	2,712	f	-	-	49	10	-	-
Bank	"												
Total for Co.		5,497	-	2,748	83	8,328	-	-	575	60	60	-	4
West Slope Coal Corp.	"	46,995	-	4,776	729	52,500	c-m	-	350	198	77	-	16
West Mtn.	"												
Total for district		1,323,797	7,468	140,260	83,812	1,555,337		426,450	159,793	710,275	2968	3	256

(B) Breaker

* Operated by Penn Anthracite Co. to March, then by Keyser Valley Coal Co.
 @ Maintenance men
 a Coal prepared at Meadowside breaker
 b -Coal prepared at Waddell " 1st district
 c -Coal prepared at Baker breaker of Glen Alden Coal Co., and Moffat breaker

bk - Bank coal
 d - Coal prepared at Moffat breaker, 5th district
 e - " " Raymond " of Northwest C.Co., 1st
 f - " " Nay Aug "
 m - Deep mined coal

Deep mined - 1,298,354 tons
 Stripping - 137,908 "
 Bank - 119,075 "

FIFTH DISTRICT

Operators & collieries	County	Production - net tons					Pounds black powder used	Pounds dynamite used	Pounds permis- sible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non- fatal acci- dents	
		Shipped to market		Sold	Used at	Total								
		By railroad	By truck	to local trade	colliery for steam and heat									production
T. D. Rees, Inspector														
R. D. 1, Box 54														
Scranton 11, Penna.														
D. & M. Coal Co.	Lacka.	1,559	262	276	15	2,112	a	-	-	3,200	72	14	-	1
Mine	"													
DeAngelis Coal Co.	"	-	-	2,458	-	2,458	b	-	1,725	1,725	86	6	-	-
Mine	"													
Glen Alden Coal Co.	"	93,568	59,418	60,422	8,156	221,564	m	-	18,500	121,700	197	892	-	79
Baker (B)	"													
Hampton Plant	"										365	61*	-	1
Hyde Park Mine	"										197	5*	-	-
Total for Co.		93,568	59,418	60,422	8,156	221,564	-	-	18,500	121,700	958	-	80	
Hudson Coal Co.	"	164,650	-	77,559	10,674	252,883	m	-	13,334	165,895	238	615	1	51
Marvine (B)	"													
Bank	"	6,464	-	-	-	6,464	b	-	-	-	35	4	-	-
Total for Co.		171,114	-	77,559	10,674	259,347	-	-	13,334	165,895	619	1	51	
Kehoe-Berge Coal Co.	Luzerne	37,818	6,389	6,699	380	51,286	m	-	2,025	36,500	213	181	-	20
William A. (B)	"													
William A. Stripping	"	13,818	1,148	1,537	83	16,586	d	-	-	500	204	9	-	-
William A. Silt Bank	"	47,666	-	-	-	47,666	a	-	-	-	245	4	-	-
No. 10 Tunnel	"	66,100	11,166	11,709	664	89,639	a-m	-	1,950	67,000	213	179	-	31
No. 11 Slope	"	18,621	3,146	3,299	187	25,253	a-m	-	1,950	67,000	213	39	1	3
Broadwell	Lacka.	41,500	7,011	7,351	417	56,279	a-m	-	2,000	56,575	213	89	-	5
Broadwell Stripping	"	2,100	355	372	21	2,848	a-o	-	-	500	62	4	-	-
Hunter-Pittston "	Luzerne	22,494	3,800	3,984	226	30,504	a	-	-	6,000	291	18	-	-
Total for Co.		250,117	33,015	34,951	1,978	320,061	-	-	7,925	234,075	523	1	59	
Lombardi Coal Co.	Lacka.	1,573	-	672	23	2,268	e-f	-	-	500	32	4	-	-
Austin Hts. Stripping	"													
Moffat Coal Co. Interests	"													
Moffat (B)	"													
Archbald Shaft	"	50,463	-	-	1,916	52,379	i-m	875	1,375	12,750	192	106	-	11
Hyde Park	"	13,858	-	-	815	14,673	i-m	-	#	#	191	67	-	8
Hyde Park Stripping	"	38,855	-	3,110	63	42,028	j	-	3,300	1,500	217	20	-	-
Continental	"	129,353	-	-	6,322	135,675	i-m	-	5,500	145,100	191	232	-	24
Continental Stripping	"	18,067	-	-	-	18,067	i	-	13,575	2,950	309	5	-	-
Fyne	"	93,551	-	-	3,527	97,078	i-m	20,625	58,050	-	194	219	-	18
Pyne Stripping	"	7,682	-	615	12	8,309	i-g-j	-	1,000	500	58	%	-	-

FIFTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Pounds black powder used	Pounds dynamite used	Pounds permiss- ible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non- fatal acci- dents
		: Shipped to market :		Sold	Used at	Total							
		By	By	to	colliery	production :							
Moffat Coal Co., Contd.													
Taylor	Lacka.	106,026	-	-	4,036	110,062 i-m	50,500	42,600	-	193	216	-	24
Taylor Stripping	"	10,949	-	1,508	31	12,488 i-j	-	5,200	450	227	14	-	-
Total for Co.		116,975	-	3,016	4,067	122,550	-	47,800	450	420	230	-	24
Mountain Slope Coal Co.	"	5,584	1,394	1,743	33	8,754 k	-	3,075	9,150	159	20	-	1
Old Forge Coal Co.													
Morgan (B)	"	-	-	-	-	1	-	-	-	159	25	-	1
Florine	"	14,636	-	3,377	146	18,159 m-n	-	1,900	6,700	268	27	-	5
Total for Co.		14,636	-	3,377	146	18,159	-	1,900	6,700	268	27	-	6
Schuster Coal Co.													
Mine	"	7,634	-	-	-	7,634 i	-	-	9,370	240	16	-	1
Warnes Coal Co.													
Mine	"	16,253	2,746	2,879	163	22,041 a	-	2,775	39,450	249	23	-	-
Total for district		1,030,842	96,835	189,570	37,910	1,355,157	72,000	179,834	755,015	3336	3	287	

(B) Breaker

- * Maintenance men
- # Included with explosives for Continental Colliery
- % Same employes as Continental Colliery
- a Coal prepared at William A. breaker of Kehoe-Berge Coal Co.
- b " " Marvine " Hudson Coal Co.
- c Discontinued operation in October
- d Coal prepared at William A., Capone (10th) and Russell (6th)
- e " " Russell (6th)
- f Discontinued operation in September
- g " " " March

- h - Prepared coal from outside sources also. "Outside" coal not included in district production.
- i - Coal prepared at Baker breaker of Glen Alden Coal Co.
- j - " " Moffat "
- k - " " Pompey & Maddell (1st), Ace & Mt. Alden (2nd), Morgan, (5th), Russell (6th) and Capone (10th)
- l - Prepared coal from other sources
- m - Deep mined coal
- n - Coal prepared at Morgan breaker, of Old Forge Coal Co.
- o - Discontinued operation in April

Deep mined	-	1,167,929
Stripping	-	133,098
Bank	-	54,130

SIXTH DISTRICT

J. J. Bonner, Inspector
448 Harrison Avenue
Scranton 10, Penna.

Operators & collieries	County	Production - net tons					Pounds black powder used	Pounds dynamite used	Pounds permiss- ible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non- fatal acci- dents
		: Shipped to market :		Sold	Used at	Total							
		By	By	to	colliery	production :							
Dalebrook Coal Co.													
Dalebrook (B)	Lacka.	-	-	-	-	-	-	-	248	8	-	-	
Dutch Gap Coal Co.													
Silt Washery (W)	"	1,950	-	-	-	1,950 bk	-	-	24	7	-	-	
Erie Concentrated Fuels Co.													
Silt Washery (W)	Luzerne	-	-	-	-	-	-	-	256	18	-	-	
Gallizzi Coal Co.													
Stripping	"	10,219	65,092	-	-	75,311 a	-	44,200	172	19	-	-	
G. & M. Coal Co.													
Parkside (B)	Lacka.	-	-	-	-	-	-	-	38	9	-	-	
Greenwood Mining Co.													
Greenwood	"	36,148	-	-	-	36,148 b-m	-	40,400	235	38	-	2	
Stripping	"	16,868	-	-	-	16,868 b	-	5,150	272	8	-	2	
Bank	"	8,557	-	-	-	8,557 b	-	-	140	4	-	-	
Total for Co.		61,573	-	-	-	61,573	-	5,150	40,400	50	-	4	
Gregory Coal Co.													
Mine	Luzerne	2,035	-	941	62	3,038 c	-	1,200	199	6	-	-	
Guzior Coal Co.													
Mine	"	8,116	1,800	1,084	-	11,000 d-e	-	8,550	210	17	1	-	
Heidelberg Coal Co.													
Heidelberg (B)	"	73,621	21,472	6,443	715	102,251 l-m	-	87,675	242	188	-	34	
Rutler 1	"	8,181	2,386	796	-	11,363 e-m	-	17,250	133	49	-	-	
Stripping	"	14,400	4,200	1,400	-	20,000 e	-	10,000	242	9	-	1	
Total for Co.		96,202	28,058	8,639	715	133,614	-	10,000	104,925	246	-	35	
Hillside Coal Co.													
Mine	"	2,473	1,079	899	46	4,497 a	-	1,400	227	5	-	-	
Jenkins Coal Co.													
Mine	"	15,517	-	-	-	15,517 f	-	3,600	17,900	249	18	-	
Lackawanna Mining & Construction Co.													
Stripping	Lacka.	62,918	-	15,855	-	78,773 n	-	36,610	15,600	305	17	-	
L. K. Coal Co.													
Stripping	Luzerne	52,447	6,169	9,881	-	68,497 d-e	-	19,950	285	28	-	-	

SIXTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl- oyes	Fatal acci- dents	Non- fatal acci- dents
		Shipped to market		Sold to colliery									
		By railroad	By truck	local trade	for steam and heat								
Major Coal Co. Mine o	Luzerne	1,281	-	-	-	1,281 a	-	-	-700	105	5	-	-
M. B. Coal Co. Mine	"	2,483	-	621	-	3,104 d	-	-	3,550	204	5	-	-
Merthyr Coal Co. Mine	Lacka.	5,479	-	1,370	-	6,849 d	-	400	3,200	225	13	-	-
Namura Coal Co. Silt Banks	Luzerne	8,300	-	-	-	8,300 g	-	-	-	41	5	-	-
Nardone Coal Co. Mine	"	17,293	-	-	-	17,293 f	-	2,700	19,700	233	19	-	3
Number Nine Coal Co. Number Nine (B) Stripping	"	193,226	-	95,000	5,000	293,226 1-m	-	37,200	138,825	218	830	2	75
	"	75,438	-	44,564	466	120,468 c	-	1,117,716	-	223	57	-	12
Total for Co.		268,664	-	139,564	5,466	413,694	-	1,154,916	138,825		887	2	87
Panzitta Coal Co. Mine p	"	-	-	212	-	212 h	-	-	400	15	8	-	-
Rhonda Coal Co. Silt Banks p	"	4,100	-	-	-	4,100 j	-	-	-	20	4	-	-
Ritzie Coal Co. Mine	"	1,718	-	430	-	2,148 d	-	-	1,400	213	6	-	-
Russell Coal Co. Russell (B)	Lacka.	31,043	13,951	11,647	213	56,854 1-m	-	-	27,875	213	170	1	16
Sarf Coal Co. Mine	Luzerne	8,528	-	-	-	8,528 f	-	1,600	3,650	234	19	-	4
Stodnick Coal Co. Mine	"	4,420	-	1,105	-	5,525 d	-	-	2,525	214	10	-	1
Sussex Coal Co. Mine	"	21,983	29,006	-	-	50,989 k	-	3,100	24,025	198	73	-	1
Traglia Coal Co. Mine	"	2,476	-	-	-	2,476 c	-	-	800	208	6	-	-
"V" Coal Co. Mine	Lacka.	2,352	1,008	841	-	4,201 a	-	-	1,600	209	13	-	1
Total for district		693,570	146,163	193,089	6,502	1,039,324	-	1,282,226	418,225		1691	4	152

SIXTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl- oyes	Fatal acci- dents	Non- fatal acci- dents
		Shipped to market		Sold to colliery									
		By railroad	By truck	local trade	for steam and heat								
(B) Breaker													
(W) Washery													
a - Coal prepared at Russell breaker													
b - " " Marvine " of Hudson Coal Co. (5th)													
bk - Bank coal													
c - Coal prepared at Number Nine "													
d - " " Morgan " of Old Forge Coal Co. (5th)													
e - " " Heidelberg "													
f - " " Ewen " of Pennsylvania Coal Co. (8th)													
g - " " Madeira " of Conlon Coal Co. (10th)													
h - Coal prepared at Miners Mills breaker of Capone Coal Co. (10th)													
i - Discontinued operation in July													
j - Coal prepared at Carbonizing breaker (26th)													
k - " " Dial Rock (9th) and Miners Mills (10th)													
l - Coal from outside sources not included in district total													
m - Deep mined coal													
n - Coal prepared at Morgan breaker (5th)													
o - Discontinued operation in May													
p - " " " " January													
Deep mined	-		636,500 tons										
Stripping	-		379,917 "										
Bank	-		22,907 "										

SEVENTH DISTRICT

Andrew Wilson, Inspector
1491 River Road
Pittston, Penna.

Capparell Constr'n. Co. Stripping	Luzerne	-	12,424	-	589	13,013 a	-	339,200	-	121	51	-	-
Gaylord Coal Co. Mine	"	15,014	-	-	767	15,781 a	-	-	2,675	254	26	-	5
Glen Alden Coal Co. Avondale	"	74,879	-	-	3,484	78,363 a-m	-	1,875	76,750	194	308	1	36
Bliss	"	136,197	-	-	3,736	139,933 b-m	-	8,000	59,600	199	383	-	48
Loomis (B)	"	237,188	11,676	46,498	8,995	304,357 m	-	20,000	176,500	209	885	2	80
Nottingham	"	133,644	-	-	6,870	140,514 a-m	-	4,500	36,000	187	448	-	44
Nanticoke Power Plant	"	-	-	-	-	-	-	-	-	365	84	-	2
Total for Co.		581,908	11,676	46,498	23,085	663,167	-	34,375	348,850		2108	3	210
Harris & Walsh Stripping c	"	9,091	-	-	478	9,569 a	-	-	-350	163	18	-	-

SEVENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Total production	Pounds : black powder : used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		: Shipped to market :		: Sold to local trade :	Used at colliery for steam and heat	Total								
		By railroad	By truck											
Kingston Excavat'g. Co. Mines	Luzerne	-	4,750	-	218	4,968 a	-	-	4,150	257	17	-	2	
Newport Excavating Co. Stripping	"	176,553	-	-	2,015	178,568 d	-	79,000	1,200,850	228	139	-	10	
Sickler Estate Chas. A. Washery (W)	"	-	41,979	-	-	41,979 e	-	-	-	201	16	-	-	
Total for district		782,566	70,829	46,498	27,152	927,045	-	452,575	1,556,875	2375	3	3	227	

(B) Breaker

(W) Washery

a - Coal prepared at Lance & Woodward breakers of Glen Alden Coal Co. (12th)

b - " " Truesdale breaker of " " (13th)

c - Discontinued operation in July

d - Coal prepared at Loomis (7th) & Truesdale (13th)

e - Bank and river coal

Deep mined - 683,916 tons
 Stripping - 201,150 "
 Bank - 41,979 "

EIGHTH DISTRICT

D. H. Connelly, Inspector
 25 Bennett Street, E.
 Kingston, Penna.

C. & G. Coal Co. C. & G.	Luzerne	8,061	-	284	51	8,396 a-m	-	1,250	1,700	260	14	-	1
Knox Coal Co. Schoolley	"	246,916	-	8,878	1,522	257,316 a-m	-	10,750	265,250	239	456	-	23
Number Fourteen C.Co. Number Fourteen Stripping	"	102,307	-	60,109	1,466	163,882 c-m	-	6,750	138,700	226	274	-	61
	"	7,061	-	-	-	7,061 c	-	2,625	-	94	17	-	-
Total for Co.		109,368	-	60,109	1,466	170,943 g	-	9,375	138,700	291	-	-	61

EIGHTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Total production	Pounds : black powder : used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		: Shipped to market :		: Sold to local trade :	Used at colliery for steam and heat	Total								
		By railroad	By truck											
Number Nine Coal Co. Number Six (B) Stripping	Luzerne	184,949	-	137,667	1,327	323,943 m	-	40,155	248,025	206	840	1	132	
	"	84,130	-	-	-	84,130 b	-	1,117,716	-	245	36	-	3	
Total for Co.		269,079	-	137,667	1,327	408,073	-	1,157,871	248,025	876	1	1	135	
P. & J. Coal Co. P. & J.	"	27,208	-	897	142	28,247 a-m	-	-	20,375	183	42	-	3	
Pennsylvania Coal Co. Ewen (B)	"	265,390	-	7,170	1,948	274,508 d-e	-	-	196,025	186	786	-	31	
Plains-Hilldale Coal Co. Number 14 Drifts Stripping	"	81,110	-	3,325	555	84,990 a-m	-	4,450	92,650	235	197	1	12	
	"	20,306	-	-	-	20,306 a	-	6,000	-	321	12	-	-	
Total for Co.		101,416	-	3,325	555	105,296	-	10,450	92,650	209	1	1	12	
Sarf Coal Co. Rex Stripping	"	10,675	-	356	59	11,090 a-m	-	-	18,250	226	18	-	-	
	"	1,333	-	-	-	1,333 a	-	50	-	21	5	-	-	
Total for Co.		12,008	-	356	59	12,423	-	50	18,250	23	-	-	-	
Valley View Coal Co. Valley View (B)	"	30,255	18,312	3,074	124	51,765 d-f	-	-	-	193	37	-	-	
Total for district		1,069,701	18,312	221,760	7,194	1,316,967	-	1,189,746	980,975	2734	2	2	266	

(B) Breaker

a - Coal prepared at Ewen breaker of Pennsylvania Coal Co.

b - " " No. 9 " of No. 9 Coal Co. (6th)

c - " " Underwood " of Pennsylvania Coal Co. (2nd)

d - Coal from outside sources not included in district total

e - Includes 208,998 tons deep mined coal and 65,510 tons silt (bank) coal. Silt prepared at Erie Concentrated Fuels breaker (6th)

f - Bank coal

g - Includes 164,910 tons deep mined coal, prepared at Underwood (2nd), 916 tons silt (bank) coal prepared at Nay Aug (3rd), and 5,117 tons bank coal prepared at Valley View (8th)

m - Deep mined

Deep mined - 1,080,829 tons
 Stripping - 112,830 "
 Bank - 123,308 "

NINTH DISTRICT

D. W. Cosslett, Inspector
30 Main Street
Wanamie, Penna.

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Used at									
		By railroad	By truck	to local trade	colliery for steam and heat								
Butter Tub Coal Co.	Luzerne	3,820	360	1,015	-	5,195 a-e	-	-	3,600	198	11	-	-
Butter Tub	"												
Capone Coal Co.	"	5,000	-	-	-	5,000 d	-	-	-	48	3	-	-
Maltby Bank	"	-	10,311	-	-	10,311 d	-	-	-	31	3	-	-
Westmoreland Bank	"												
Total for Co.		5,000	10,311	-	-	15,311	-	-	-		6	-	-
Dial Rock Coal Co.	"	-	-	-	-	- g	-	-	-	190	17	-	2
Dial Rock (B)	"												
Exeter Colliery Co.	"	107,310	1,597	5,425	342	114,674 c-e	-	6,425	123,650	102	522	1	33
Exeter i	"												
Genelow Mining Co.	"	84,194	-	-	-	84,194 b-e	-	1,000	72,500	235	139	-	25
Maltby	"												
Harry E. Coal Co.	"	113,986	-	150,669	4,725	269,380 e	-	28,330	170,200	241	572	-	77
Harry E. (B)	"												
Stripping	"	597	-	-	-	597	-	-	-	22	3	-	-
Total for Co.		114,583	-	150,669	4,725	269,977	-	28,330	170,200		575	-	77
Kehoe-Berge Coal Co.	"	104,304	12,891	13,516	765	131,476 e-h	-	13,025	182,425	144	1	4	45
Exeter i	"												
Lehigh Valley Coal Co.	"	44,170	4,884	1,978	4,561	55,593 e	-	3,650	39,775	186	473	2	20
Prospect k (B)	"												
Westmoreland	"	253,162	21,767	8,469	20,047	303,445 b-e	-	102,500	121,075	196	595	1	70
" Stripping	"	17,714	-	-	1,296	19,010 b	-	-	-	196	8	-	1
Total for Co.		315,046	26,651	10,447	25,904	378,048	-	106,150	160,850		1076	3	91
Luzerne County Gas & Electric Co.	"	-	27,457	-	-	27,457 f	-	-	-	91	3	-	-
Maltby Bank	"												
Sullivan Trail Coal Co.	"	-	-	-	-	-	-	-	-	241	89	-	2
Clear Spring Shops	"												
West Exeter Coal Co.	"	26,710	-	-	-	26,710 b-e	-	950	22,525	237	28	-	9
West Exeter	"												
Total for district		760,967	79,267	181,072	31,736	1,053,042	-	155,880	735,750		2466	8	284

(B) Breaker

NINTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Used at									
		By railroad	By truck	to local trade	colliery for steam and heat								
a - Coal prepared at Dial Rock breaker													
b - " " Prospect " of Lehigh Valley Coal Co.													
c - 102,231 tons prepared at Miners Mills breaker of Capone Coal Co. (10th), and 12,443 tons prepared at William A. breaker of Kehoe-Berge Coal Co. (5th)													
d - Coal prepared at Miners Mills breaker													
e - Deep mined coal													
f - Slush													
Deep mined		-	990,667 tons										
Stripping		-	19,607 "										
Bank		-	42,768 "										

g - Preparation only
h - 103,476 tons prepared at William A. breaker and 28,000 tons at Miners Mills breaker
i - Exeter colliery was operated by Kehoe-Berge Coal Co. to August, then by Exeter Colliery Co.
j - Operated with same number of employes as Exeter Colliery Co.
k - Prospect colliery mine discontinued operation as of June. Prospect breaker remains in operation

TENTH DISTRICT

J. C. Hines, Inspector
27 James Street
Pittston, Penna.

Bernice White Ash C. Co.	(B) Sullivan	6,000	13,015	9,447	300	28,762 m	25,000	400	800	178	79	-	7
Connell													
Capone Coal Co.	(B) Luzerne	13,876	-	-	200	14,076 a	-	3,000	11,500	184	78	-	6
Miners Mills													
Conlon Coal Co.	"	56,741	-	5,526	146	62,413 c	-	2,000	35,000	222	79	-	15
Madeira b													
Durycy Anthracite Co.	(B) "	41,118	3,150	4,150	276	48,694 d	-	4,500	44,525	186	165	-	38
Packer													
Greenwood Mining Co.	"	34,430	-	-	-	34,430 e-f	-	1,350	46,650	231	70	-	10
Lafkin													
Harry E. Coal Co.	"	43,359	-	54,758	-	98,117 g-h	-	370,616	2,700	280	65	-	8
Mineral Spring													

TENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Pounds black powder used	Pounds dynamite used	Pounds permiss- ible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non- fatal acci- dents	
		Shipped to market		Sold	Used at	Total								
		By railroad	By truck	to trade	colliery and heat	production								
Hudson Coal Co.														
Delaware	Luzerne	150,725	-	42,649	13,616	206,990	1-j	-	40,516	161,975	235	320	1	24
Pine Ridge	"	171,291	-	44,149	14,812	230,252	k	-	34,357	102,775	235	450	1	36
Lafin	"	25,075	-	2,562	-	27,637	l	-	-	-	221	60	-	1
Total for Co.		347,091	-	89,360	28,428	464,879		-	74,873	264,750		830	2	61
Lehigh Valley Coal Co.														
Henry	"	329,125	25,277	9,729	25,925	390,056	p-m	-	224,100	40,850	189	800	-	101
Pringle Coal Co.														
East Boston	"	44,520	-	-	-	44,520	n-m	-	-	39,000	228	77	1	14
West Side Coal Co.														
West Side	"	16,346	-	-	-	16,346	o-m	-	650	15,625	146	45	-	2
Total for district		932,606	41,442	172,970	55,275	1,202,293		25,000	681,489	501,400		2288	3	262

(B) Breaker

- a - Includes 12,842 tons deep mined and 1,234 tons stripping coal
- b - Discontinued operation of breaker June 25. From then on coal was prepared at Pompey breaker (2nd district)
- c - Includes 37,614 tons deep mined and 24,799 tons stripping coal
- d - " 47,982 " " " " 712 " " " "
- e - Coal prepared at Lafin breaker of Hudson Coal Co.
- f - Includes 32,846 tons deep mined and 1,584 tons stripping coal
- g - Coal prepared at Harry E. breaker (9th district)
- h - Includes 3,446 tons deep mined and 94,671 tons stripping coal
- i - Coal prepared at Lafin & Pine Ridge breakers of Hudson Coal Co.
- j - Includes 179,100 tons deep mined and 27,890 tons stripping coal
- k - " 209,502 " " " " 20,750 " " " "
- l - " 4,167 " " " " 474 " " " and 22,996 tons bank coal
- m - Deep mined
- n - Coal prepared at Waddell (1st) and Dial Rock (9th)
- o - " " " William A., of Kehoe-Berge Coal Co. (5th) and Dial Rock (9th)
- p - " " " at Prospect breaker of Lehigh Valley Coal Co. (9th)

Deep mined - 1,007,183 tons
 Stripping - 172,114 "
 Bank - 22,996 "

ELEVENTH DISTRICT

T. M. Beaney, Inspector
 316 Monument Avenue
 Wyoming, Penna.

Operators & collieries	County	Production - net tons					Pounds black powder used	Pounds dynamite used	Pounds permiss- ible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non- fatal acci- dents	
		Shipped to market		Sold	Used at	Total								
		By railroad	By truck	to trade	colliery and heat	production								
Glen Alden Coal Co.														
Empire-Kidder	Luzerne	226,942	-	-	6,923	233,865	a-m	-	23,625	205,000	190	926	-	94
Stripping	"	194,970	-	-	5,952	200,922	a	-	280,000	-	268	42	-	1
S. Wilkes-Barre	"	242,683	286	41,162	8,008	292,139	a-m	-	-	194,250	193	818	-	94
Total for Co.		664,595	286	41,162	20,883	726,926		-	303,625	399,250		1786	-	189
Hudson Coal Co.														
Baltimore	"	190,752	-	90,139	12,703	293,594	b-c	11,750	14,209	135,900	239	466	1	62
Stripping	"	20,886	-	-	-	20,886	b	-	326,500	-	258	30	-	4
Total for Co.		211,638	-	90,139	12,703	314,480		11,750	340,709	135,900		496	1	66
Lehigh Valley Coal Co.														
Dorrance	(B)	211,792	49,896	65,320	28,152	355,160	m	-	233,475	-	204	748	1	82
Franklin	"	102,225	-	-	10,487	112,712	d-m	-	1,300	56,425	211	247	1	32
Stripping	"	1,354	-	-	150	1,504	d	-	-	-	17	2	-	-
Total for Co.		315,371	49,896	65,320	38,789	469,376		-	234,775	56,425		997	2	114
Total for district		1,191,604	50,182	196,621	72,375	1,510,782		11,750	879,109	591,575		3279	3	369

(B) Breaker

- a - Coal prepared at Huber breaker of Glen Alden Coal Co. (13th district)
- b - " " Marvine " " Hudson Coal Co. (5th)
- c - Includes 287,158 tons deep mined and 6,436 tons bank coal
- d - Coal prepared at Prospect breaker of Lehigh Valley Coal Co. (9th)
- m - Deep mined

Deep mined 1,281,034 tons
 Stripping 223,312 "
 Bank 6,436 "

TWELFTH DISTRICT

E. C. Curtis, Inspector
52 Poplar Street
Kingston, Penna.

Operators & collieries	County	Production - net tons					Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to colliery		Used at								
		By railroad	By truck	local	for steam	and heat								
Bird Mining Co. Mine	Luzerne	36,403	-	-	-	36,403 a	-	-	19,950	204	45	-	12	
Carey, Baxter & Kennedy Stripping	"	-	-	-	-	- b	-	889,500	-	224	105	-	-	
Courtdale Coal Co. Courtdale	"	40,049	-	-	-	40,049 c-m	-	125	29,500	219	58	-	11	
Deweese Bros. Stripping	"	-	-	-	-	- b	-	8,500	-	224	21	-	-	
Glen Alden Coal Co. Lance (B)	"	227,223	20,615	116,398	21,982	386,218 m	-	2,500	253,000	216	941	-	125	
Woodward (B)	"	255,264	16,088	125,636	24,294	421,282 m	-	2,100	240,500	202	1404	-	129	
Total for Co.		482,487	36,703	242,034	46,276	807,500	-	4,600	493,500		2345	-	254	
Hudson Coal Co. Loree (B)	"	835,725	-	76,634	42,223	954,582 f	12,575	31,475	289,250	239	1466	3	118	
Kingston Mining Corp. Mine	"	86,755	-	-	-	86,755 c-e	-	-	51,000	199	134	-	8	
Larksville Coal Co. Mine	"	10,811	-	-	-	10,811 d	-	925	6,250	244	20	-	-	
Total for district		1,492,230	36,703	318,668	88,499	1,936,100	12,575	935,125	889,450		4194	3	403	

(B) Breaker

a - Coal prepared at Lance breaker of Glen Alden Coal Co.
b - " " Loree " of Hudson Coal Co. and included in production for Loree
c - Coal prepared at Woodward breaker of Glen Alden Coal Co.

d - Coal prepared at Loree breaker

e - Includes 71,781 tons deep mined and 14,974 tons stripping coal
f - " 776,582 " " " 178,000 " " "
(from Carey, Baxter & Kennedy & Dewees strippings)
m - Deep mined

Deep mined - 1,743,126 tons
Stripping - 192,974 "
Bank -

THIRTEENTH DISTRICT

J. D. Edwards, Inspector
55 Butler Street
Wyoming, Penna.

Operators & collieries	County	Production - net tons					Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to colliery		Used at								
		By railroad	By truck	local	for steam	and heat								
Glen Alden Coal Co. Buttonwood	Luzerne	242,791	-	-	7,434	250,225 a-m	-	15,125	193,000	190	741	7	105	
Huber (B)	"	224,771	985	173,102	12,175	411,033 m	-	33,650	269,000	197	1359	1	140	
Dick Stripping	"	60,743	-	-	1,838	62,581 a	-	734,450	-	249	69	-	3	
Sugar Notch	"	91,970	-	-	2,520	94,490 b-m	-	5,000	51,500	199	175	-	23	
Kingston Excav. Strip.	"	22,568	-	-	682	23,250 b	-	67,732	-	273	10	-	-	
Truesdale (B)	"	370,294	27	31,694	10,981	412,996 m	-	27,500	250,500	199	1274	-	158	
Kingston Excav. Strip.	"	65,135	-	-	1,844	66,979 b	-	183,138	-	273	26	-	-	
Total for district		1,078,272	1,012	204,796	37,474	1,321,554	-	1,066,595	764,000		3654	8	429	

(B) Breaker

a - Coal prepared at Huber breaker
b - " " Truesdale "
m - Deep mined

Deep mined - 1,168,744 tons
Stripping - 152,810 "
Bank -

FOURTEENTH DISTRICT

K. C. Lee, Inspector
88 Old River Road
Wilkes-Barre, Penna.

Duryea Anthracite Co. West End	Luzerne	4,656	-	-	-	4,656 a-m	-	-	3,275	178	12	-	1
" Stripping	"	33,364	-	-	-	33,364 a	-	17,375	-	278	23	-	-
Total for Co.		38,020	-	-	-	38,020	-	17,375	3,275		35	-	1
Glen Alden Coal Co. Wanamie (B)	"	500,794	14,888	23,074	19,055	557,811 m	-	27,750	377,500	202	1263	3	108
Newport Excav. Mine	"	91,237	-	-	-	91,237 m	-	1,900	64,325	219	130	-	-
Biscontini Stripping	"	56,023	-	-	-	56,023	-	14,000	67,252	229	31	-	-
Kingston Excav. "	"	170,531	-	-	5,943	176,474	-	-	470,397	245	52	-	-
Total for Co.		818,585	14,888	23,074	24,998	881,545 b	-	43,650	979,474		1476	3	108

FOURTEENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Pounds black powder used	Pounds dynamite used	Pounds permiss- ible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non- fatal acci- dents
		Shipped to market		Sold	Used at	Total							
		By railroad	By truck	to local trade	colliery for steam and heat								
Stackhouse Coal Co. Stackhouse	Luzerne	-	-	-	-	-	-	100	-	28	5*	-	-
Susquehanna Colls. Div. M. A. Hanna Co. No. 7	"	404,537	2,655	35,727	29,801	472,720	c-m	4,500	248,575	(221	1061)	1	224
Biscontini Stripping	"	1,158	-	-	-	1,158	c	-	-	(-)	-	-
Glen Lyon (B)	"	214,437	118,692	32,454	30,864	396,447	m	26,700	207,775	218	875	1	168
Biscontini Stripping	"	39,313	-	-	-	39,313	c	34,800	171,902	238	26	-	-
Alden	"	20,467	-	-	-	20,467	c-m	2,200	25,900	241	50	-	6
Biscontini Stripping	"	22,204	-	-	-	22,204	c	15,650	37,211	239	32	-	-
Total for Co.		702,116	121,347	68,181	60,665	952,309		83,850	691,363		2044	2	398
Total for district		1,558,721	136,235	91,255	85,663	1,871,874		144,975	1,674,112		3560	5	507

(B) Breaker

* Development work

a - Coal prepared at Packer breaker of Duryea Anthracite Co. (10th)

b - 734,285 tons prepared at Wanamie breaker, 76,311 tons at Loomis breaker (7th), 14,842 tons at Huber breaker (13th), and 56,107 tons at Truesdale breaker (13th)

c - Coal prepared at Glen Lyon breaker

m - Deep mined

Deep mined	-	1,543,338 tons
Stripping	-	328,536 "
Bank	-	- "

FIFTEENTH DISTRICT

R. Ditzler, Inspector
593 N. Vine Street
Hazleton, Penna.

Capone Coal Co. Tomhicken #5 Strip.	Luzerne	5,631	165	93	76	5,965	a-b	3,850	-	171	13	-	-
Cranberry Mining Co. Cranberry (e)	"	7,998	1,386	782	91	10,257	c-d	-	150	46	117	-	-

FIFTEENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Pounds black powder used	Pounds dynamite used	Pounds permiss- ible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non- fatal acci- dents
		Shipped to market		Sold	Used at	Total							
		By railroad	By truck	to local trade	colliery for steam and heat								
Gowen Coal Co. Gowen (B)	Luzerne	-	-	-	-	-	i	-	-	175	25	-	1
" Stripping	"	38,047	-	13,557	500	52,104	o	15,800	-	266	16	-	2
" Bank	"	7,518	-	-	-	7,518	o	-	-	24	6	-	-
Total for Co.		45,565	-	13,557	500	59,622		15,800	-	47	47	-	3
Greenwood Mining Co. Driffton #9	"	4,740	2,427	928	56	8,151	c-f	-	7,600	225	19	-	1
Hess, J. A. & W. A. Tomhicken Stripping	"	177	30	17	17	241	d-g	-	-	8	8	-	-
Hydrotated Anthracite Fuel Co. Cold Spring #6 (B)	"	9,496	3,970	2,220	100	15,786	c-h	-	11,500	148	95	-	6
" Stripping	"	4,345	2,852	2,420	50	9,667	-	15,750	-	38	45	-	-
" Bank	"	40,640	14,342	5,774	370	61,126	-	-	-	138	12	-	-
Total for Co.		54,481	21,164	10,414	520	86,579		15,750	11,500	152	152	-	6
Jeddo-Highland Coal Co. Deringer	"	38,900	19,919	7,616	604	67,039	c-f	18,400	68,475	226	167	-	31
" Stripping	"	18,619	9,535	3,646	283	32,083	f	17,600	-	204	25	-	-
Driffton	"	68,921	35,290	13,493	803	118,507	c-f	44,700	47,575	240	226	-	45
" Stripping	"	36,444	18,662	7,135	425	62,666	f	82,000	-	269	30	-	2
Eckley	"	33,232	17,016	6,506	379	57,133	c-f	57,400	25,725	230	127	-	17
" Stripping	"	79,967	40,946	15,655	917	137,485	f	1,146,750	-	252	160	-	11
Highland #5	"	15,244	7,803	2,984	180	26,211	c-f	2,050	10,150	236	83	-	20
Jeddo #7 (B)	"	13,761	7,045	2,694	161	23,661	c	1,950	11,700	241	265	-	19
" Stripping	"	138,808	71,067	27,172	1,624	238,671	f	840,400	-	286	59	-	8
Monitor (E)	"	-	-	-	-	-	g-1	-	-	160	11	-	-
Stockton	"	79,022	40,458	15,469	902	135,851	c-f	4,875	99,300	240	215	-	29
" Stripping	"	347	180	69	5	601	f-n	-	-	5	10	-	-
Tomhicken	"	22,267	11,400	4,359	341	38,367	c-f	4,700	26,400	225	77	-	13
" Stripping	"	6,771	3,468	1,326	104	11,669	f	90,000	-	232	25	-	-
Total for Co.		552,303	282,789	108,124	6,728	949,944		2,310,825	289,325	1480	1480	-	195
Lattimer Coal Corp. Humboldt	"	84,216	4,214	3,372	1,721	93,523	c-j	34,025	85,200	236	180	-	36
" Stripping	"	85,009	11,866	6,971	4,497	108,343	k	112,750	-	236	65	-	3
Total for Co.		169,225	16,080	10,343	6,218	201,866		146,775	85,200	245	245	-	39

EIGHTEENTH DISTRICT

J. J. Shober, Inspector
227 W. Ridge Street
Lansford, Penna.

Operators & collieries	County	Production - net tons					Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to		Used at colliery for steam and heat								
		By railroad	By truck	local trade	to colliery									
Beaver Meadow Mng. Co. Mine	Carbon	17,089	2,962	1,671	1,251	22,973 a	-	-	5,400	198	48	-	3	
Connell Coal Co., John G. Silt Plant (B)	"	31,784	-	-	50	31,834 bk	-	-	-	50	22	-	-	
Lehigh Navigation C. Co. Lansford (B)	"	722,718	-	-	29,460	752,178 m	-	347,750	345,850	187	1996	2	264	
" Stripping	"	340,465	-	-	-	340,465	-	1,028,158	-	187	225	-	-	
" Bank	"	6,239	-	-	-	6,239	-	-	-	187	1	-	-	
Total for Co.		1,069,422	-	-	29,460	1,098,882	-	1,375,908	345,850	2222	2222	2	264	
Lehigh Valley Coal Co. Hazleton Shaft (B)	Luzerne	579,028	100,383	56,640	49,178	785,229 m	-	-	318,800	210	1739	3	101	
" Stripping	"	66,050	11,450	6,461	4,992	88,953	-	218,775	-	204	64	-	-	
Total for Co.		645,078	111,833	63,101	54,170	874,182	-	218,775	318,800	1803	1803	3	101	
Luzerne-Carboh Coal Co. Lykens Slope	Carbon	-	3,215	-	-	3,215 b-m	-	300	1,200	159	7	-	-	
Joseph Lynott Contracting Co. Beaver Meadow Strip.	"	526	92	51	45	714 a-c	-	150	-	56	4	-	-	
Penn Rich Contr'g. Co. Beaver Meadow Strip.	"	1,208	209	120	106	1,643 a	-	-	-	58	12	-	-	
P. & F. Coal Co. Mine	"	10,598	3,700	-	-	14,298 a	-	75	9,200	191	29	-	1	
Sun Valley Coal Co. Junedale (B)	"	11,416	-	-	-	11,416 m	-	-	11,000	141	46	-	4	
Stripping	"	19,109	8,195	-	30	27,334	-	6,500	-	177	27	-	-	
Total for Co.		30,525	8,195	-	30	38,750	-	6,500	11,000	73	73	-	4	
Total for district		1,806,230	130,206	64,943	85,112	2,086,491	-	1,601,708	691,450	4220	4220	5	373	

(B) Breaker

a - Coal prepared at Hazleton Shaft breaker of Lehigh Valley Coal Co.

b - " " Junedale " " Sun Valley Coal Co.

bk - Bank coal

c - Discontinued operation in August

m - Deep mined

Deep mined - 1,589,309 tons
Stripping - 459,109 "
Bank - 38,073 "

NINETEENTH DISTRICT

T. A. Ryan, Inspector
1243 W. Norwegian St.
Pottsville, Penna.

Operators & collieries	County	Production - net tons					Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to		Used at colliery for steam and heat								
		By railroad	By truck	local trade	to colliery									
Beckville Coal Co. Beckville (B)	Schuyl.	-	-	-	-	- n	-	-	-	200	7	-	-	
Bernitsky Bros. Mine	"	3,606	-	-	-	3,606	-	-	1,250	228	7	-	-	
B. & N. Coal Co. B. & N. (B)	"	-	-	-	-	- n	-	-	-	296	5	-	-	
Capparell Contr'g. Co. Stripping	"	22,188	6,298	3,212	-	31,698 a	-	562,500	-	214	66	-	-	
Colitz Coal Co. Colitz (B)	"	-	-	-	-	9,120 d	-	(113,400)	1,200	251	102	-	1	
Stripping	"	16,334	65,322	10,174	420	83,130	-	(113,400)	1,200	251	102	-	2	
Total for Co.		59,109	14,762	1,624	-	75,495	-	74,200	-	216	34	-	1	
Eagle Hill Coal Co. Eagle Hill (B)	"	59,109	14,762	1,624	-	75,495	-	74,200	-	216	22	-	3	
Stripping	"	-	-	-	-	-	-	-	-	56	56	-	4	
Total for Co.		59,109	14,762	1,624	-	75,495	-	74,200	-	216	22	-	3	
Farley & Watkins Mine	"	-	5,168	-	-	5,168 i	-	100	500	209	10	-	-	
Haven Coal & Supply Co. Haven (B)	"	2,310	7,517	-	-	9,827 bk	-	-	-	111	15	-	-	
Hillside Coal Co. Hillside (B)	"	-	-	-	-	- n	-	-	-	306	18	-	1	
Hoffman Coal Co. Hoffman (B)	"	6,240	1,820	1,440	100	9,600 d-o	-	-	2,200	94	36	-	-	
Hollow Coal Co. Mine	"	1,100	3,220	170	-	4,490 d-k	-	-	4,000	288	7	-	-	
Huss Contracting Co. Stripping	"	139,100	21,600	10,100	-	170,800 c	-	239,600	-	169	78	-	-	
Indian Run Coal Co. Indian Run (B)	"	-	-	-	-	- n	-	-	-	149	10	-	-	
Jac Coal Co. Jac (B)	"	33,160	4,220	820	-	38,200 p	-	1,500	-	228	32	-	-	
K. M. F. Coal Service K. M. F. (B)	"	-	-	-	-	- n	-	-	-	239	7	-	-	

NINETEENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents	
		Shipped to market		Sold to										Used at colliery for steam and heat
		By railroad	By truck	local trade	colliery									
Linde & Son Stripping	Schuyl.	18,790	8,650	780	-	28,220 g	-	10,000	-	242	12	-	-	
Lohb Coal Co. Pine Ridge (B)	"	-	-	-	-	n	-	-	-	182	19	-	-	
Marchese Coal Co. Marchese Washery (B)	"	-	-	-	-	n	-	-	-	71	11	-	-	
Millard Coal Co. Mine	"	2,100	820	290	-	3,210 m	-	-	350	185	6	-	-	
Mountain Top Coal Co. Carbon (B)	"	69,225	68,016	10,129	150	147,520 f	-	-	355,250	210	185	1	11	
Penna Coal Co. Penna (B)	"	-	-	-	-	n	-	-	-	237	11	-	1	
Philadelphia & Reading Coal & Iron Co. Newkirk	"	85,399	17,540	18,460	600	121,999 a-d	-	76,550	112,275	205	232	-	24	
Wadesville Stripping	"	145,871	21,677	39,740	1,100	208,388 b	-	2,747,125	-	248	276	-	33	
Total for Co.		231,270	39,217	58,200	1,700	330,387	-	2,823,675	112,275		508	-	57	
Repplier Coal Co. New Castle (B) Stripping	"					115,302 d	-	(59,225	46,200)	211	276	-	26	
Bank	"					180,961	-	()	207	83	-	-	
Total for Co.		239,837	62,335	17,137	998	320,307	-	59,225	46,200		369	-	26	
Sanchez Contr'g. Co. Stripping	"	36,290	10,048	3,902	-	50,240 e	-	65,000	-	258	19	-	3	
Silver Brook Coal Co. Silver Brook (B) Stripping	"					90,280 d	-	(322,600	15,075)	183	68	-	10	
Bank	"					18,192	-	()	183	43	-	-	
Total for Co.		89,105	17,333	3,249	173	109,860	-	322,600	15,075		119	-	10	
St. Clair Coal Co. St. Clair (B) Stripping	"					165,789 d	-	(305,556	107,575)	238	519	-	65	
Bank	"					241,546	-	()	238	47	-	1	
Total for Co.		351,682	178,388	36,897	4,423	571,390	-	305,556	107,575		587	-	67	

NINETEENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents	
		Shipped to market		Sold to										Used at colliery for steam and heat
		By railroad	By truck	local trade	colliery									
Tamaqua Coal Pockets Tamaqua (B)	Schuyl.	11,168	-	-	-	11,168 bk	-	-	-	168	5	-	-	
Tinker, M. A. Washery (W)	"	1,991	11,925	-	-	13,916 bk	-	-	-	176	4	-	-	
Trail Coal Co. Mine o	"	700	490	-	-	1,190 h	-	-	710	17	36	-	-	
Tropp, Lawrence Stripping	"	11,260	5,820	880	-	17,960 m	-	-	-	175	14	-	1	
Valent Contr'g. Co. Stripping	"	820	380	120	-	1,320 e	-	-	-	33	11	-	-	
Winton Coal Co. Winton 1 (B)	"	15,264	10,148	-	-	25,412 p	-	-	-	39	26	-	2	
Total for district		1,362,649	543,497	159,124	7,964	2,073,234	-	4,577,356	646,585		2398	1	186	

(B) Breaker
(W) Washery

a - Coal prepared at St. Nicholas breaker of Phila. & Reading C. & I. Co., (20th District)
b - 59,467 tons prepared at Oak Hill breaker of " " " (21st) C. & I. Co., and 148,921 tons at St. Nicholas breaker
c - 89,000 tons prepared at St. Nicholas breaker (20th) and 81,800 tons at Westwood breaker of Stevens Coal Co. (25th)
d - Deep mined
e - Coal prepared at Silver Brook breaker
f - 132,264 tons stripping and 15,256 bank coal

g - Coal prepared at St. Clair breaker
h - " " Westwood " of Stevens Coal Co. (25th)
i - " " Hillside "
k - " " Beckville "
l - Formerly operated by Winton Coal Co.
m - Coal prepared at Jac breaker
n - Preparation plant only. These plants prepared 212,000 tons from small mines in 19th district, which production is not included in total production for the district.
o - Operated by Hoffman Coal Co. to October, then by Trail Coal Co.
p - Stripping coal
bk - Bank coal

Deep mined - 529,754 tons
Stripping - 1,303,826 "
Bank - 239,654 "

TWENTIETH DISTRICT

J. H. Morgan, Inspector
326 Washington Street
Frackville, Penna.

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold	Used at								
		By railroad	By truck	to local trade	to colliery for steam and heat								
Altamont Coal Co. (B) *	Schuyl.	-	8,532	3,113	90	11,735 a	-	-	-	303	5	-	-
Atkins Coal Co. (B) *	"	42,932	13,959	3,130	-	60,021 h	-	-	-	251	14	-	-
Englewood Coal Co. (B) *	"	8,400	-	985	-	9,385 a	-	-	-	238	5	-	-
Gilberton Coal Co. Kehley Run Bank	"	1,277	336	24	-	1,637 c	-	-	-	17	8	-	-
Harris Coal Co. Mine	"	2,571	351	116	12	3,050 b	-	-	350	172	6	-	1
Ivanowski Coal Co. Mine	"	1,956	267	88	9	2,320 b	-	-	400	148	6	-	-
Kalis Coal Co. Mine j	"	539	74	24	3	640 b	-	-	150	48	5	-	1
Klimas Coal Co. Mine	"	7,153	976	322	34	8,485 b	-	2,750	5,000	218	10	-	3
Kohinoor Coal Co. Kohinoor (B)	"	-	-	-	-	-	-	-	-	206	59	-	7
Kingston Contr. Strip. "	"	65,376	3,555	521	211	69,663	-	65,697	-	206	66	-	-
" " Bank	"	56,124	3,045	466	187	59,822	-	-	-	-	-	-	-
Total for Co.		121,500	6,600	987	398	129,485	-	65,697	-		125	-	7
Locust Coal Co. Weston (B)	"	331,201	45,130	14,743	1,981	393,055 a	-	-	322,425	193	888	1	100
Mines (Independent)	"	25,717	3,508	1,159	122	30,506 a-b-g	-	-	-	-	-	-	-
Bazley Stripping	"	137,080	18,678	6,102	820	162,680 b	-	526,054	107,703	193	98	-	2
Yaecino "	"	18,423	2,510	820	110	21,863 b	-	36,200	-	193	44	-	2
Kehley Run "	"	12,344	1,682	549	74	14,649 b	-	-	-	-	-	-	2
Lubrecht "	"	22,263	3,033	991	133	26,420 b	-	43,260	-	193	18	-	2
Kurchock Bank	"	63,890	8,706	2,844	382	75,822 b	-	-	-	193	75	-	1
Total for Co.		610,918	83,247	27,208	3,622	724,995	-	605,514	430,128		1123	1	109
Matrishin Coal Co. Mine	"	2,001	526	39	-	2,566 k	-	-	525	249	5	-	-

TWENTIETH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold	Used at								
		By railroad	By truck	to local trade	to colliery for steam and heat								
Philadelphia & Reading Coal & Iron Co. St. Nicholas (B)	Schuyl.	-	-	-	-	-	-	-	-	196	218	-	-
Knickerbocker	"	195,180	26,313	27,080	6,898	255,471 a-d	-	34,825	182,600	195	734	2	107
" Stripping	"	93,899	12,658	13,028	3,319	122,904 d	-	481,020	-	276	159	-	17
Maple Hill	"	318,435	42,930	44,181	11,253	416,799 a-d	-	113,750	163,475	196	1097	2	138
Shenandoah Stripping	"	392,792	52,955	54,498	13,881	514,126 d	-	4,326,043	-	218	439	-	40
St. Nicholas Bank	"	54,771	7,384	7,599	1,936	71,690 d	-	-	-	195	31	-	-
Total for Co.		1,055,077	142,240	146,386	37,287	1,380,990	-	4,955,638	346,075		2678	4	302
Phoenix Contracting Co. Ellangowan Stripping	"	40,911	-	133	99	41,143	-	1*	-	1*	1*	-	-
" Bank	"	332,940	-	1,084	807	334,831	-	-	-	159	33	-	-
St. Nicholas Bank	"	33,247	-	108	80	33,435	-	-	-	86	9	-	-
Total for Co.		407,098	-	1,325	986	409,409 f	-	-	-		42	-	-
Reading Briquet Co. Briquet Plant (B)	"	-	-	-	-	-	-	-	-	135	46	-	-
Ryon Coal Co. Mine	"	9,421	1,285	425	44	11,175 b	-	-	3,675	222	14	1	6
Seltzer Coal Co. Seltzer (B) *	"	45,805	7,650	1,000	200	54,655 e	-	-	-	245	16	-	-
Sergynsky Coal Co. Mine	"	5,183	707	234	24	6,148 b	-	-	900	185	7	-	1
Shanahan Coal Co. Mine 1	"	60	20	10	-	90 d	-	-	50	20	5	-	-
Snowshoe Coal Co. Mine	"	2,873	387	399	101	3,760 d	-	5,120	8,430	261	7	-	-
Stauffer & Klimas Mine	"	7,209	984	325	34	8,552 b	-	200	4,700	215	8	-	4
Vlasuk Coal Co. Mine	"	5,493	1,444	106	-	7,043 c	-	-	5,100	239	9	1	1
Total for district		2,337,466	269,585	186,246	42,844	2,836,141	-	5,634,919	805,483		4144	7	435

TWENTIETH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Used at									
		By railroad	By truck	to local trade	to colliery for steam and heat								
(B) Breaker													
* Preparation only. Coal from other sources within 20th district.													
a - Deep mined													
b - Coal prepared at Weston breaker of Locust Coal Co.													
c - " " Gilberton " " Gilberton Coal Co. (22nd)													
d - " " St. Nicholas breaker of Phila. & Reading Co.													
e - 5,955 tons mine coal, purchased, and 48,700 tons bank coal													
f - Coal prepared at Oakland breaker of Otto Collieries Co. (22nd)													
g - Purchased coal													
		Deep mined	-	1,229,453 tons									
		Stripping	-	973,448 "									
		Bank	-	633,240 "									

h - 52,718 tons deep mined and 7,303 tons bank coal
 i - Discontinued operation in March
 j - " " in December
 k - 1,500 tons prepared at Gilberton and 1,066 tons at Altamont breaker
 l* - Employes, days worked and dynamite included with Knickerbocker stripping of Phila. & Reading Co.

TWENTY-FIRST DISTRICT

H. Hilbert, Inspector
 1919 W. Market Street
 Pottsville, Penna.

Bosack Coal Co. Mine	Schuyl.	-	8,449	-	-	8,449 a	-	1,500	4,000	175	12	-	-
Branch Coal Corp. Branch (B)	"	3,400	2,717	253	100	6,470 m	-	900	3,875	82	33	-	3
Brilla & Co., John Mine	"	-	7,340	-	-	7,340 a	-	-	7,000	208	10	-	-
Cano, Ray Mine	"	9,200	3,932	-	-	13,132 b	-	-	19,200	259	18	-	1
Chornack Bros. Mine	"	-	5,052	-	-	5,052 a	-	-	3,350	296	9	-	-
Dantas, Alfred Mine	"	-	7,302	-	-	7,302 b	-	-	6,700	288	9	-	-
Daub, Lloyd Rausch Creek Bank	"	4,330	2,009	-	-	6,339 c	-	-	-	49	6	-	-

TWENTY-FIRST DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Used at									
		By railroad	By truck	to local trade	to colliery for steam and heat								
DiRenzo Coal Co. Breaker (B) *	Schuyl.	-	-	-	-	-	-	-	266	6	-	1	
Falls Coal Co. Mine	"	-	4,088	-	-	4,088 a	-	-	2,550	268	10	-	-
Fegley & Tretter Mine	"	-	10,189	-	-	10,189 d	-	-	13,000	240	12	-	-
Floss Coal Co. Breaker (B) *	"	-	-	-	-	-	-	-	162	37	-	3	
Garote & Martin Mine	"	22,100	10,072	-	-	32,172 b	-	-	64,000	309	32	1	5
Gontarchick Coal Co. Mine	"	15,050	5,016	-	-	20,066 e	-	6,000	8,200	271	24	-	1
G. W. B. Coal Co. Mine	"	-	11,440	-	-	11,440 a	-	-	5,700	286	13	-	-
Herb & Co., Dan Mine f	"	-	3,352	-	-	3,352 d	-	-	4,550	196	6	-	-
Herb & Reed Coal Co. Mine	"	12,400	7,013	-	-	19,413 c	-	-	16,125	282	18	-	-
Herman, Carl Mine g	"	-	857	-	-	857 a	-	-	700	63	5	-	-
Indian Head Coal Co. Indian Head (B) Stripping	"	74,486	-	20,054	955	95,495 m	-	-	42,425	185	198	-	14
		15,047	-	4,051	193	19,291	-	194,000	-	160	59	-	-
Total for Co.		89,533	-	24,105	1,148	114,786	-	194,000	42,425	257	-	-	14
Keifer & Co., Lawrence Mine	"	-	7,310	-	-	7,310 a	-	-	6,600	265	7	-	-
Laychack, Peter Mine	"	6,400	6,940	-	-	13,340 h	-	-	15,500	277	16	-	3
Lehman & Co., Marlin Mine	"	7,900	3,055	-	-	10,955 c	-	900	4,950	248	7	-	-
Lengle, Luther Mine	"	8,500	3,089	-	-	11,589 c	-	-	9,000	287	9	-	2
Live Oak Coal Co. Live Oak (B) *	"	-	-	-	-	-	-	-	-	277	13	-	1
Lytle Concentrated C.Co. Washery (W) g	"	45,090	-	-	-	45,090 bk	-	-	-	95	35	-	-

TWENTY-FIRST DISTRICT, CONTINUED

Operators & Collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to	Used at								
		By railroad	By truck	local trade	colliery for steam and heat								
McCullough & Rizzardi Mine	Schuyl.	-	1,840	-	-	1,840 a	-	-	32	14	-	-	
Michaels Mining Co. Mine	"	48,313	-	-	-	48,313 i	-	950	34,900	234	79	-	
Morgan, Irvin Stripping j	"	-	1,468	-	-	1,468 c	-	-	-	23	12	-	
Philadelphia & Reading Coal & Iron Co. Oak Hill (B)	"	-	-	-	-	185,632 m	-	54,500	97,225	199	482	-	
" Bank	"	-	-	-	-	22,207	-	-	-	142	4	-	
" Strip.(Capparell)"	"	-	-	-	-	48,240	-	201,885	-	254	39	15)	
Hecksherv. " (")"	"	-	-	-	-	222,913	-	651,390	-	260	180	-	
Correale-Beechwood Strip."	"	-	-	-	-	226,279	-	1,094,454	-	292	108	-	
Penbrook-Oak Hill Strip."	"	-	-	-	-	75,647	-	353,551	-	200	49	2	
Total for Co.		536,469	164,754	69,493	10,202	780,918 k	-	2,355,780	97,225		862	-	
Renninger Coal Co. Mine	"	20,300	4,088	-	-	24,388 d	-	-	21,050	227	29	-	
Sabitsky & Co., Anthony Mine	"	-	6,000	-	-	6,000 a	-	-	5,200	292	6	-	
Salen & Co., James Mine	"	-	3,010	-	-	3,010 a	-	-	3,850	237	5	-	
Schrader Coal Co. Mine f	"	8,570	3,001	-	-	11,571 b	-	1,700	950	138	25	-	
Sherman Mountain Coal Co. Mine	"	4,080	2,004	-	-	6,084 a	-	1,050	2,400	256	6	-	
Swatara Coal Co. Breaker (B) *	"	-	-	-	-	-	-	-	-	293	20	-	
T. & T. Constr'n. Co. Phoenix Banks	"	145,147	16,128	-	-	161,275 l	-	-	-	236	20	-	
Williams Stripping Co. Stripping	"	19,292	-	-	-	19,292 i	-	-	-	188	10	-	
Zerbe & Griffith Mine	"	-	6,315	-	-	6,315 a	-	300	1,850	180	8	-	
Total for district		1,006,074	317,830	93,851	11,450	1,429,205	-	2,563,080	404,850		1700	1	

TWENTY-FIRST DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to	Used at								
		By railroad	By truck	local trade	colliery for steam and heat								
(B) Breaker													
(W) Washery													
* Preparation only													
a - Coal prepared at various breakers													
b - " " Floss breaker													
bk - Bank coal													
c - Coal prepared at Westwood breaker of Stevens Coal Co. (25th)													
d - " " Lamar " (25th)													
e - " " Silver Brook " (19th)													
f - Discontinued operation in September													
g - " " " in August													
h - Coal prepared at Live Oak breaker													
i - " " Pine Ridge breaker of Lohb Coal Co. (19th)													
j - Discontinued operation in February													
k - 686,559 tons prepared at Oak Hill breaker, Phila. & Reading Co., and 94,359 tons at St. Nicholas breaker of Phila. & Reading Co. (20th)													
l - 97,287 tons prepared at Westwood breaker of Stevens Coal Co. (25th) and 63,988 tons at M. & M. Washery (19th)													
m - Deep mined													
Deep mined		-	581,164	tons									
Stripping		-	613,130	"									
Bank		-	234,911	"									

TWENTY-SECOND DISTRICT

R. O. Schneider, Inspector
216 N. Ninth Street
Ashland, Penna.

Barzak Coal Co. Mine	Schuyl.	1,605	424	31	-	2,060 a	-	200	800	238	5	-
Gilberton Coal Co. Gilberton (R)	"	-	-	-	-	-	-	-	-	172	82	-
" Stripping	"	136,096	36,122	2,630	500	175,348 a-b	-	1,164,862	-	240	175	-
" Bank	"	13,285	3,514	254	-	17,053 a	-	-	-	170	13	-
Packer #5	"	96,470	25,675	1,870	623	124,638 a-m	-	103,600	56,625	242	245	-
Total for Co.		245,851	65,311	4,754	1,123	317,039	-	1,268,462	56,625		515	1
Grochowski Coal Co. Mine	"	3,303	873	64	-	4,240 a	-	400	3,200	246	9	-
Gulbinsky Coal Co. Mine	"	2,526	668	48	-	3,242 a	-	500	1,050	282	7	-

TWENTY-SECOND DISTRICT

Operators & collieries	County	Production - net tons					Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to local trade	Used at colliery for steam and heat	Total								
		By railroad	By truck											
Hammond Coal Co.														
Hammond (B)	Schuyl.	180,153	39,092	9,060	33,588	261,893 m	-	-	340,327	221	734	-	119	
" Stripping	"	181,634	40,810	9,258	-	231,702	-	2,361,533	1,903	221	64	-	30	
" Bank	"	-	-	-	280	280	-	-	-	6	5	-	-	
Total for Co.		361,787	79,902	18,318	33,868	493,875	-	2,361,533	342,230		803	-	149	
Hazle Brook Coal Co.														
Continental)	Columbia	59,574	32,724	12,416	843	105,557 c-m	-	87,900	136,500	195	272	2	41	
")	Schuyl.	44,736	17,862	7,324	508	70,430 c-m	-	-	-	195	139	-	-	
" Stripping)	Schuyl.	23,867	12,732	5,031	309	41,939 c	-	-	-	219	33	-	3	
")	Columbia	29,870	13,440	5,187	322	48,819 c	-	602,672	-	219	40	-	-	
Midvalley (B)	Columbia	-	-	-	-	-	-	-	-	208	123	-	4	
" Stripping	Columbia	22,752	11,983	4,708	344	39,787 c	-	74,950	-	231	25	-	-	
" "	Northumbd.	1,932	-	-	-	1,932 c	-	-	-	231	5	-	-	
Total for Co.		182,731	88,741	34,666	2,326	308,464	-	765,522	136,500		637	2	48	
H. R. & M. Coal Co.														
Mine e	Columbia	7,612	-	-	-	7,612 d	-	-	8,450	228	15	-	-	
Mallio Coal Co.														
Mine	Schuyl.	5,730	1,515	111	-	7,356 a	-	1,500	18,200	234	12	-	4	
Mammoth Coal Co.														
Mammoth (B)	"	173,976	-	19	3,814	177,809 f	-	674,470	49,250	177	170	-	6	
Bank	"	943	-	-	-	943	-	-	-	22	4	-	-	
Total for Co.		174,919	-	19	3,814	178,752	-	674,470	49,250		174	-	6	
Pine Ridge Mng. Co.														
Girard Stripping	"	7,330	-	-	-	7,330 d-g	-	-	-	46	16	-	-	
Philadelphia & Reading Coal & Iron Co.														
East Stripping	"	92,768	-	-	-	92,768 h	-	538,049	-	91	69	-	4	
East Bank l	"	11,371	-	-	-	11,371 i	-	-	-	43	5	-	-	
Total for Co.		104,139	-	-	-	104,139	-	538,049	-		74	-	4	

TWENTY-SECOND DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to local trade	Used at colliery for steam and heat	Total								
		By railroad	By truck											
Raven Run Coal Co.														
Germantown)	Columbia	324,731	-	-	3,022	327,753 c-m	-	(325,800	86,175	202	517	1	48	
")	Northumbd.	79,647	-	-	-	79,647 c-m	-	-	-	202	174	-	-	
" Stripping)	Columbia	5,520	-	-	52	5,572 c	-	39,050	-	118	25	-	2	
")	Northumbd.	1,532	-	-	-	1,532 c	-	-	-	118	11	-	-	
Total for Co.		411,430	-	-	3,074	414,504	-	364,850	86,175		727	1	50	
Resig Coal Co.														
Mine	Schuyl.	2,388	632	46	-	3,066 a	-	-	1,600	284	6	-	-	
Susquehanna Colls. Div.														
M. A. Hanna Co.														
Logan Basin Stripp'g	Columbia	100,859	-	-	-	100,859 j	-	331,440	-	164	65	-	4	
Farrone Coal Co.														
Stripping	Schuyl.	18,038	-	-	-	18,038 k	-	-	300	237	8	-	-	
Total for district		1,630,248	238,066	58,057	44,205	1,970,576	-	6,306,926	704,380		3073	4	320	

(B) Breaker

- a - Coal prepared at Gilberton breaker
- b - Includes 55,867 tons purchased from small mines within the 22nd district and 119,481 tons stripping coal
- c - Coal prepared at Midvalley breaker of Hazle Brook Coal Co.
- d - " " Millersville " " Pine Ridge Mng Co. (27th)
- e - Formerly operated by Warcola Coal Co.
- f - Includes 12,878 tons from small mines on company property and 164,931 tons stripping coal

- g - New operation, started in October
- h - 45,463 tons prepared at Locust Summit Central breaker of Phila. & Reading C. & I. Co. (23rd) and 47,305 tons at Oakland breaker of Otto Collieries Co. (27th)
- i - Coal prepared at Oakland breaker of Otto Collieries (27th)
- j - " " Glen Burn breaker of Susquehanna Collieries Division (24th)
- k - " " at Locust Coal Co. breaker (20th)
- l - Discontinued operation in April
- m - Deep mined

Deep mined - 1,066,239 tons
 Stripping - 874,690 "
 Bank - 29,647 "

TWENTY-THIRD DISTRICT

J. P. Brophy, Inspector
422 W. Third Street
Mt. Carmel, Penna.

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to	Used at								
		By railroad	By truck	local trade	for steam and heat								
Al-Penn Coal Co. Reliance Bank	Northumbd.	15,269	296	855	-	16,420 a	-	-	73	18	-	-	
Bazley, J. Robert Penna. Stripping	"	58,899	3,020	2,880	-	64,799 b	-	419,400	249	36	-	4	
Broschious & Rumberger Mine	"	-	10,947	-	-	10,947 c	-	13,000	224	17	-	-	
Capitol Coal Co. Stripping	"	87,004	4,450	4,260	-	95,714 b	-	252,757	203	42	-	-	
Cullen Coal Co. Bank	"	-	104,634	-	-	104,634 d	-	-	330	8	-	-	
Diamond Coal Co. Diamond (B)	"	124,280	2,332	7,086	225	133,923 e	-	-	228	42	-	7	
Stripping	"	5,480	130	319	-	5,929 a	-	-	42	15	-	-	
Bank	"	15,585	315	907	-	16,807 a	-	-	66	5	-	-	
Total for Co.		145,345	2,777	8,312	225	156,659	-	-		62	-	7	
Elgin & Moleski Mine	"	-	1,076	1,075	-	2,151 f	-	800	207	5	-	-	
Helfenstein Coal Co. Mine	"	-	5,860	-	-	5,860 g	-	1,800	293	8	-	-	
Karwachi, Peter Mine	"	-	3,464	-	-	3,464 c	-	750	284	5	-	-	
K. & H. Contr'g. Co. Stripping	"	2,000	112	102	-	2,214 b	-	550	81	8	-	-	
Kessler, D. A. Reliance Bank	"	16,723	-	-	-	16,723 h	-	-	48	42	-	-	
Logan Creek Ant'. Co. Stripping	"	40,742	-	4,025	-	44,767 i	-	4,300	245	32	-	1	
Marquette & Leichty Mine	"	-	3,256	-	-	3,256 g	-	1,100	192	5	-	-	
Martinez & Bridy Stripping	"	27,100	-	2,537	-	29,637 j	-	10,000	161	15	-	-	
Martinez & Broderick Stripping	"	23,474	1,200	1,149	-	25,823 b	-	11,600	183	24	-	-	

TWENTY-THIRD DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to	Used at								
		By railroad	By truck	local trade	for steam and heat								
Natalie Coal Corp. Natalie (B)	Northumbd.	59,000	-	5,626	753	65,379 e	-	2,000	131	167	-	6	
Kenro Exc Strip.)	Northumbd.	25,252	-	2,517	354	28,123 j	-	20,000	223	22	-	5	
	Columbia	54,289	-	5,364	738	60,391 j	-	180,000	261	48	-	-	
Total for Co.		138,541	-	13,507	1,845	153,893	-	202,000		237	-	11	
Philadelphia & Reading Coal & Iron Co.	Northumbd.	183,200	9,371	8,953	3,489	205,013 e-k	-	84,350	196	433	2	36	
Alaska Independents	"	14,300	730	702	-	15,732 e-k	-	17,850	197	24	-	-	
Locust Gap	"	486,899	24,100	23,800	13,025	547,824 e-k	-	112,400	195	1223	2	182	
" " Bank	"	12,357	632	605	-	13,594 k	-	-	58	8	-	-	
" " Silt Bank	"	-	-	-	25,600	25,600 l	-	-	263	5	-	-	
Locust Summit (B)	"	-	-	-	-	-	-	-	194	295	-	12	
Merriam Bank	"	4,014	203	196	-	4,413 k	-	-	33	6	-	-	
Monitor Stripping	"	200,667	10,230	9,790	-	220,687 k	-	155,725	197	39	-	3	
North Slush Bank	"	80,500	4,100	3,900	-	88,500 k	-	-	220	8	-	-	
Reliance	"	137,025	6,449	6,148	1,115	150,737 e-k	-	2,400	196	375	2	20	
" Stripping	"	163,660	8,520	8,160	-	180,340 k	-	430,186	190	102	-	4	
" Bank	"	52,955	2,710	2,582	-	58,247 k	-	-	138	13	-	-	
Total for Co.		1,335,577	67,045	64,836	43,229	1,510,687	-	700,711	434,325	2531	6	257	
Reading Briquet Co. Breaker (B)	"	-	-	-	-	-	-	-	132	48	-	3	
Rock Ridge Coal Co. Mine	"	-	18,641	-	-	18,641 g	-	15,000	291	17	-	-	
United Stripping Co. Stripping	"	18,692	856	820	-	20,368 b	-	10,100	193	17	-	-	
Water Level Coal Co. Mine	"	3,180	-	320	-	3,500 j	-	3,500	198	6	-	-	
Total for district		1,912,546	227,634	104,678	45,299	2,290,157	-	1,611,418	470,275	3183	6	283	

(B) Breaker

- a - Coal prepared at Diamond breaker
- b - " " Glen Burn breaker of Susquehanna Colls.Div. (24th)
- c - " " Dietrick Coal Co. breaker (24th)
- d - Coal sold unprepared
- e - Deep mined
- f - Coal prepared at Savitski Bros. breaker (23rd)

TWENTY-THIRD DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to	Used at									
		By railroad	By truck	local trade	colliery	for steam and heat								
g - Coal prepared at Swift & Co. breaker (24th)														
h - " " Zerbe breaker of Stevens Coal Co. (24th)														
i - 9,423 tons prepared at Diamond Coal Co. breaker and 35,344 tons at Natalie Coal Co. breaker														
j - Coal prepared at Natalie breaker							Deep mined	-			1,166,427 tons			
k - " " Locust Summit Central breaker of Phila. & Reading Coal & Iron Co.							Stripping	-			778,792 "			
l - Coal used for boiler fuel							Bank	-			344,938 "			

TWENTY-FOURTH DISTRICT

J. R. Ruane, Inspector
922 Washington Street
Shamokin, Penna.

Boslego Coal Co.	Northumbd.	-	17,088	-	-	17,088 a-m	-	-	7,200	320	21	-	3
Boslego Stripping	"	-	39,365	-	-	39,365 b	-	3,000	225	225	19	-	-
C. M. & C. Coal Co. Mine	"	-	10,197	-	-	10,197 c	-	-	3,500	290	9	-	-
Dancott Coal Co. Dancott (B)	"	-	-	-	-	-	-	-	-	293	10	-	-
Diamond Coal Co. Royal Oak Bank	"	30,965	3,000	-	-	33,965 d	-	-	-	94	14	-	-
Diminick Coal Sales Co. Diminick (B) *	"	19,749	45,562	-	-	65,311 m	-	-	-	302	9	-	-
Duke Mining Co. Mine	"	-	10,698	-	-	10,698 e	-	-	5,000	292	15	-	1
D. & Z. Coal Co. D. & Z. (B) *	"	21,456	49,993	3,400	56	74,905 m	-	-	-	298	9	-	-
F. & L. Coal Co. F. & L. (B) *	"	14,802	1,428	5,062	56	21,348 m	-	-	-	302	8	-	-

TWENTY-FOURTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to	Used at									
		By railroad	By truck	local trade	colliery	for steam and heat								
Hoover Coal Mng. Co. Hoover (B) *	Northumbd.	3,280	11,310	-	35	14,625 m	-	-	-	298	5	-	-	
Johnson Coal Sales Co. Johnson (B) *	"	17,934	-	4,480	-	22,414 m	-	-	-	286	8	-	1	
Jonathan Coal Mng. Co. Jonathan (B) *	"	60,700	-	-	-	60,700 m	-	-	-	281	25	-	-	
K. & D. Coal Co. K. & D. (B) *	"	7,500	15,313	-	-	22,813 m	-	-	-	277	7	-	1	
Latscha Coal Co. Mine	"	-	9,743	-	-	9,743 f	-	-	8,700	302	11	-	-	
Level Coal Co. Mine	"	11,869	-	-	-	11,869 g	-	1,300	700	234	14	-	3	
Lower Region Coal Co. Lower Region (B) *	"	8,969	26,308	1,524	150	36,951 r	-	-	-	287	11	-	-	
Maurer Coal Sales Co. Maurer (B) *	"	8,291	3,248	2,661	32	14,232 m	-	-	-	262	7	-	-	
Mutual Coal Co. Mutual (B)	"	-	3,199	-	-	3,199 m	-	3,000	2,100	166	8	-	-	
Oak Coal Yard Oak (B) *	"	-	20,400	-	-	20,400 m	-	-	-	295	5	-	-	
Philadelphia & Reading Coal & Iron Co. Bear Valley Stripping	"	273,148	-	-	-	273,148 q	-	439,599	-	267	59	-	8	
Hepburn Pumping Station	"	6,387	-	-	-	6,387 q	-	66,281	-	146	16	-	-	
Total for Co.		279,535	-	-	-	279,535	-	505,880	-	300	3	-	-	
Reidinger Coal Service Reidinger (B) *	"	4,773	15,645	5,961	100	26,479 m	-	-	-	300	8	-	-	
Rosini Bros. Coal Co. Rosini (B) *	"	-	-	-	-	40,720 m	-	-	-	235	20	-	2	
Fidler Stripping	"	-	-	-	-	40,000	-	25,600	-	253	22	-	3	
Total for Co.		55,670	20,000	5,000	50	80,720	-	25,600	-	42	-	-	5	
Stanley Coal Co., Inc. Stanley (B) *	"	48,474	-	4,488	-	52,962 m	-	-	-	303	9	-	1	

TWENTY-FOURTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market	Sold to	Used at	Used at								
		By railroad	By truck	local trade	colliery for steam and heat								
Steam Coals, Inc.													
Steam Coals (B)	Northumbd.	-	-	-	-	-	-	-	203	51	-	2	
Hickory Stripping	"	-	-	-	44,889 h	-	16,105	11,760	174	20	-	4	
Level	"	-	-	-	3,776 h-m	-	-	-	p	p	-	-	
Shenandoah Mng. Strip.	"	-	-	-	29,770 h	-	-	-	p	p	-	-	
Thomas Bros. Stripping	"	-	-	-	3,434 h	-	-	-	36	12	-	-	
Stevens Stripping	"	-	-	-	5,529 h	-	-	-	p	p	-	-	
Fidler Contr. Stripping	"	-	-	-	1,964 h	-	-	-	p	p	-	-	
Independents	"	-	-	-	49,255 h-m	-	-	8,000	203	65	-	-	
Total for Co.		130,651	4,826	3,140	-	138,617	-	16,105	19,760	148	-	6	
Stevens Coal Co.													
Trevorton (B)	"	-	-	-	-	-	-	-	252	199	-	10	
A.E. Dick Stripping	"	-	-	-	326,752 i	-	1,070,677	-	182	125	-	9	
Capparell	"	-	-	-	79,377 i	-	40,250	-	171	21	-	1	
Kessler Bank	"	-	-	-	142,171 i	-	-	-	252	84	-	-	
Bridy, Inc. Bank	"	-	-	-	48,008 i	-	-	-	252	22	-	-	
Kettle Mine	"	-	-	-	27,855 i-m	-	-	18,000	194	25	-	4	
North Buck Mine	"	-	-	-	2,813 i-m	-	-	2,325	74	6	-	-	
Springfield Mine	"	-	-	-	34,764 i-m	-	-	21,950	184	26	-	1	
West End Mine	"	-	-	-	10,093 i-m	-	-	4,100	194	10	-	1	
Konyar Mine	"	-	-	-	4,541 i-m	-	-	2,000	192	6	-	1	
Brennan-Taby Mine	"	-	-	-	1,851 i-m	-	-	150	37	9	-	1	
Independents	"	-	-	-	27,014 i-m	-	-	14,000	194	28	-	-	
Total for Trevorton		596,052	70,502	37,963	722	705,239	-	1,110,927	62,525	561	-	28	
Zerbe (B) Northumbd.													
Burnside Bank (T. & T.)	"	-	-	-	268,686 j	-	-	-	252	69	-	8	
Trevorton Bank	"	-	-	-	369,146 j	-	-	-	252	16	-	3	
Henry Clay Bank	"	-	-	-	311,999 j	-	-	-	252	16	-	1	
Total for Zerbe (B)		949,831	-	-	-	949,831	-	-	-	113	-	12	
Total for Stevens Co.		1,545,883	70,502	37,963	722	1,655,070	-	1,110,927	62,525	674	-	40	
Sunshine Coal Co.													
Katherine (B) *	Northumbd.	-	-	-	6,842 m	-	-	-	209	8	1	2	
Mika Stripping	"	-	-	-	9,857 k	-	1,000	-	299	15	-	-	
Total for Co.		2,335	7,286	7,033	45	16,699	-	1,000	-	23	1	2	

TWENTY-FOURTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market	Sold to	Used at	Used at								
		By railroad	By truck	local trade	colliery for steam and heat								
Susquehanna Collieries Div.													
M. A. Hanna Co. Northumbd.													
Glen Burn (B)	"	189,035	164,122	63,794	4,138	421,089 m	-	-	217	653	1	122	
Maysville #1	"	136,963	-	-	307	137,270 l-m	-	146,530	217-600	217	227	33	
Maysville #2	"	87,702	-	-	165	87,867 l-m	-	-	-	218	129	19	
Total for Co.		413,700	164,122	63,794	4,610	646,226	-	146,530	217-600	1009	1	174	
Swift Coal Co.													
Swift (B) *	"	-	27,366	1,000	-	28,366 m	-	-	-	293	7	-	
Total for district		2,686,536	576,599	145,506	5,856	3,444,497	-	1,813,342	327,310	2213	2	245	

(B) Breaker

- a - Coal prepared at Rosini Bros. breaker
- b - " " Natalie Coal Corp. breaker (23rd)
- c - 5,000 tons prepared at Glen Burn breaker of M. A. Hanna Co., and 5,197 tons at Diamond Coal Co. breaker (23rd)
- d - Coal prepared at " " " " " "
- e - " " Stanley Coal Co. breaker
- f - " " Reidinger " "
- g - " " Locust Summit Central breaker of Phila. & Reading Coal & Iron Co. (23rd)
- h - " " Steam Coals, Inc. breaker
- i - " " Trevorton breaker of Stevens Coal Co.

- * - Preparation only. Purchased coal.
- j - Coal prepared at Zerbe breaker of Stevens Coal Co.
- k - " " Katherine breaker of Sunshine Coal Co.
- l - " " Glen Burn breaker of M. A. Hanna Co.
- m - Deep mined
- n - Discontinued operation in February
- o - " " " " December
- p - Credited to company which produced the coal
- q - 143,382 tons prepared at Locust Summit breaker of Phila. & Reading Co. and 136,153 tons at Oakland breaker of Otto Collieries Co. (27th)
- r - Includes 17,634 tons deep mined and 19,317 tons stripping

Deep mined - 1,360,733 tons
 Stripping - 879,789 "
 Bank - 1,173,975 "

TWENTY-FIFTH DISTRICT

G. E. Smith, Inspector
760 Main Street
Lykens, Penna.

Operators & collieries	County	Production - net tons					Pounds black powder used	Pounds dynamite used	Pounds permiss- ible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non- fatal acci- dents
		Shipped to market		Sold	Used at	Total							
		By railroad	By truck	to local trade	to colliery for steam and heat								
Artz, Albert Mine	Dauphin	854	1,976	155	-	2,985 a	-	-	1,500	156	5	-	-
Banks Constr. Co., Jos. Stripping	Schuyl.	54,324	7,222	1,005	251	62,802 b	-	12,450	-	220	22	-	-
Elyler, Roy Superior (B)	"	-	-	-	-	-	-	-	-	294	12	-	-
Cutler & Farley Mine	"	8,607	5,922	1,577	69	16,175 c	-	-	13,500	275	10	-	1
Dayton Coal Co. Breaker (B)	Dauphin	-	-	-	-	-	-	-	-	248	12	-	-
Deaven, David Oakwood (B)	Schuyl.	-	-	-	-	-	-	-	-	298	10	-	-
Deaven, Francis Mine t	"	3,863	514	71	18	4,466 b	-	-	600	11	31	-	-
Dietrich Coal Co. Breaker u	Dauphin	-	-	-	-	-	-	-	-	91	5	-	-
Erdman Bros. Mine	Schuyl.	3,430	-	507	28	3,965 d	-	-	5,550	238	11	-	1
Gavalis, Joseph Stripping	Dauphin	5,355	8,743	1,401	47	15,546 e	-	5,200	-	215	14	-	-
Good Peoples Coal Co. Breaker (B)	"	-	-	-	-	-	-	-	-	51	5	-	-
Hentz, Reuben Mines	Schuyl.	12,505	-	1,851	101	14,457 d	-	-	12,500	293	13	-	-
Herb, Allen Mine	"	1,395	6,106	265	11	7,777 f	-	-	4,000	300	8	-	-
Hickory Contr'g Co. Mine	"	10,986	1,461	203	51	12,701 b	-	-	8,600	146	35	-	3
High Test Coal Co. Mine	"	1,168	4,660	219	36	6,083 g	-	-	12,500	268	11	-	-
Hinchev & McGinley Stripping	"	13,585	22,723	3,647	120	40,075 h	-	9,200	-	237	15	-	-
Hoffman Bros. Stripping v	"	1,320	176	24	6	1,526 b	-	400	-	44	9	-	-
Huss, George Stripping	"	60,808	7,581	1,614	295	70,298 i	-	6,585	-	134	33	-	-

TWENTY-FIFTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Pounds black powder used	Pounds dynamite used	Pounds permiss- ible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non- fatal acci- dents
		Shipped to market		Sold	Used at	Total							
		By railroad	By truck	to local trade	to colliery for steam and heat								
Jonathan Coal Mng. Co. Breaker (B)	Lebanon	22,341	-	-	-	22,341 bk	-	-	-	308	5	-	-
Kehler, Cleaton Mine	Schuyl.	-	2,700	-	-	2,700 k	-	-	3,900	243	5	-	-
Kocher, Leon Valley View (B)	"	-	-	-	-	-	-	-	-	289	9	-	-
Koppenhaver, Howard Mine	Dauphin	2,425	5,784	441	3	8,653 j	-	-	7,500	261	11	-	-
Lamar Coal Co. Lamar (B)	Schuyl.	-	-	-	-	-	-	-	-	162	30	-	-
Legal Coal Co. Legal (B)	"	-	-	-	-	-	-	-	-	89	5	-	-
Lykens Valley Coal Co. Breaker (B) u	Dauphin	-	-	-	-	-	-	-	-	276	18	-	-
Markson Coal Co. Markson (B)	Schuyl.	23,844	39,880	6,401	211	70,336 *	-	-	43,000	233	213	-	39
Martin & Keating M. & K. (B)	"	-	-	-	-	-	-	-	-	160	5	-	-
McHale & Santor Stripping	"	532	71	10	2	615 b	-	-	-	z	z	-	-
Miller, Franklin Breaker (B)	"	-	-	-	-	-	-	-	-	222	11	-	-
Miller, Robert Mine	"	4,358	579	81	20	5,038 b	-	-	5,050	241	6	-	-
Miller, Rufus Mine	"	5,447	-	806	44	6,297 d	-	-	5,200	186	11	-	-
Miscellaneous Banks	"	15,723	2,090	291	73	18,177 b	-	-	-	-	-	-	-
Morgan, Roy Mine	"	1,417	1,510	302	7	3,236 l	-	-	1,500	176	5	-	-
Moyer, Lloyd Mine	"	152	11,200	351	12	11,715 m	-	5,200	13,000	259	16	-	-
Nause, Victor Bank u	Dauphin	761	1,274	204	7	2,246 h	-	-	-	68	10	-	-
O'Brien, Pat Breaker (B)	Schuyl.	-	-	-	-	-	-	-	-	291	10	-	-

TWENTY-FIFTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Pounds black powder used	Pounds dynamite used	Pounds permiss- ible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non- fatal acci- dents
		Shipped to market		Sold to local trade	Used at colliery for steam and heat	Total production							
		By railroad	By truck										
Otto Miners Mine y	Schuyl.	1,199	159	22	6	1,386 b	-	-	2,850	57	10	-	-
Penag Coal Co. Penag (B)	"	10,968	17,646	815	-	29,429 *	-	736	6,621	300	56	1	4
Philadelphia & Reading Coal & Iron Co. Porter Tunnel	"	52,153	6,933	965	241	60,292 b*	-	39,750	65,525	222	154	1	24
Sheridan (B)	"	254,246	2,169	308	1,012	257,735 bk-H	-	-	-	189	91	-	2
Total for Co.		306,399	9,102	1,273	1,253	318,027	-	39,750	65,525		245	1	26
Pine Creek Coal Co. Breaker (B)	"	-	-	-	-	-	-	-	-	262	15	-	-
Raudenbush, Joseph Mine u	"	1,799	239	34	8	2,080 b	-	-	1,700	76	6	-	-
Reilly, Chas. L. Stripping w	Lebanon	3,655	486	68	17	4,226 b	-	200	-	61	8	-	-
Rhoads Co., Inc. Franklin-Lykens (B)	Dauphin	266	-	357	80	703 bk	-	-	-	11	53	-	1
Rigdosh & Co., George Mine	Schuyl.	10,450	420	1,546	85	12,501 o	-	5,400	2,300	263	7	-	1
Scheib & Leitzel Stripping x	"	1,452	193	27	7	1,679 b	-	-	-	23	5	-	-
Schneck, Thomas Breaker (B)	"	-	-	-	-	-	-	-	-	304	12	-	-
Schumacher & Son, J. E. Stripping	"	80,887	9,494	2,723	407	93,511 p	-	178,650	-	168	39	-	4
Schuylkill Contrg. Co. Stripping y	"	4,701	-	696	38	5,435 q	-	4,000	-	47	26	-	-
Shade, Lawrence Mine	"	5,594	744	103	26	6,467 b	-	-	2,600	295	6	-	-
Stevens Coal Co. Westwood (B)	"	-	-	-	-	-	-	-	-	200	178	1	18
Stone Hill Coal Co. Breaker (B) u	Dauphin	-	-	-	-	-	-	-	-	98	6	-	-

TWENTY-FIFTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Pounds black powder used	Pounds dynamite used	Pounds permiss- ible ex- plosives used	Days worked	Empl- oyes	Fatal acci- dents	Non- fatal acci- dents
		Shipped to market		Sold to local trade	Used at colliery for steam and heat	Total production							
		By railroad	By truck										
Stump, F. B. Mines	Schuyl.	10,522	1,124	536	37	12,219 r	-	525	11,300	239	19	-	-
Underkoffler, Herschel Breaker (B)	Dauphin	-	-	-	-	-	-	-	-	288	14	-	-
Zimmerman & Flanagan Mine	Schuyl.	6,193	823	114	29	7,159 b	-	-	3,900	263	12	-	2
Zimmerman, Ray Mine	"	6,232	11,014	433	39	17,718 s	-	-	11,725	204	24	-	-
Total for district		705,517	183,616	30,173	3,444	922,750	-	268,296	246,421		1372	3	100

(B) Breaker

* Deep mined

a - Coal prepared at Superior breaker of Roy Blyler Co.

b - " " Westwood " of Stevens Coal Co.

c - 10,109 tons prepared at Markson Coal Co. breaker, 5,009 tons at Lamar Coal Co. breaker, 979 tons at Westwood breaker of Stevens Coal Co., 56 tons at Swatara Coal Co. breaker (21st) and 22 tons at Thos. Schneck breaker (27th)

d - Coal prepared at Lamar breaker

e - 15,384 tons prepared at Markson and 162 at Westwood breaker

f - 256 tons prepared at Legal, 4,707 at Superior and 2,814 tons at Valley View breaker of Leon Kocher Co.

g - Coal prepared at Legal breaker

h - " " Markson "

i - 4,371 tons prepared at Lamar and 65,927 tons at Westwood

bk - Bank coal

j - 8,118 tons prepared at Superior breaker and 535 at Legal

k - Coal prepared at Valley View breaker of Leon Kocher Co.

l - 2,036 tons prepared at Oakwood breaker of David Deaven Co. and 1200 tons at Westwood breaker

m - Coal prepared at Franklin Miller breaker

n - 18,859 tons prepared at Westwood and 238,876 tons at Sheridan breaker of Phila. & Reading Co. All bank coal.

o - 12,081 tons prepared at Lamar, and 420 tons at Pine Creek breaker

p - 82,559 tons prepared at Westwood, and 10,952 at Lamar breaker

q - 15 tons prepared at Westwood and 5,420 tons at Lamar "

r - 2,375 tons prepared at Westwood, 3,891 tons at Lamar and 5,953 tons at Martin & Keating breaker

s - 10,674 tons prepared at Franklin Miller and 7,044 tons at Westwood

t - Discontinued operation in February

u - " " " April

v - " " " September

w - " " " August

x - " " " January

y - " " " March

z - No employes or days worked. Stocked coal.

Deep mined	-	325,835 tons
Stripping	-	295,713 "
Bank	-	301,202 "

TWENTY-SIXTH DISTRICT

J. B. Reinoehl, Inspector
132 E. Mahanoy Ave.
Mahanoy City, Penna.

Operators & collieries	County	Production - net tons					Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to	Used at colliery									
		By railroad	By truck	local trade	for steam and heat	Total								
Alpec Coal Co.														
Park #1	Schuyl.	77,221	5,161	3,387	2,082	87,851 m	-	52,875	27,700	247	144	-	16	
Springdale Stripping	"	30,212	1,722	1,431	1,549	34,914	-	170,500	-	260	84	-	1	
" Bank	"	46,463	4,127	2,705	271	53,566	-	-	-	260	30	-	-	
Total for Co.		153,896	11,010	7,523	3,902	176,331 a	-	223,375	27,700		258	-	17	
Beaver Brook Coal Co.														
Beaver Brook (B)	Luzerne	8,273	5,929	-	-	14,202 bk	-	-	-	186	15	-	-1	
" Stripping	"	8,238	2,000	2,884	-	13,122	-	7,400	-	206	35	-	-	
Independent Mines	"	-	-	1,578	1,125	2,703 m	-	-	-	206	5	-	-	
Total for Co.		16,511	7,929	4,462	1,125	30,027	-	7,400	-		55	-	1	
Becker & Co.														
Mine	Schuyl.	-	2,276	-	-	2,276 b	-	-	2,225	289	6	-	1	
Bellevue Coal Co.														
Hilltop (B)	Luzerne	58,931	-	-	-	58,931 bk	-	-	-	292	9	-	-	
Biros Coal Co.														
Mine	Schuyl.	-	5,450	-	-	5,450 c	-	300	2,500	197	14	-	-	
Blaschak Coal Co.														
Mine	"	9,054	2,394	175	-	11,623 d	-	7,050	11,550	286	12	-	-	
Boner Coal Co.														
Mine	"	5,850	1,264	-	-	7,114 e	-	2,500	600	302	10	-	-	
Brehony & Co.														
Mine	"	5,334	1,410	103	-	6,847 d	-	-	4,950	195	11	-	-	
Bres Contracting Co.														
Mine	"	30,458	-	-	-	30,458 f	-	-	15,225	237	37	-	5	
Brokenshire & Co.														
Mine	"	-	2,894	-	-	2,894 b	-	75	1,650	287	6	-	-	
Carbonizing Coal Co.														
Carbonizing (B)	Luzerne	131,372	53,441	-	-	184,813 bk	-	-	-	259	33	-	-	
Dell Coal Co.														
Mine	Schuyl.	2,980	-	-	-	2,980 g	-	-	1,000	93	32	-	-	
Draper Contracting Co.														
Tunnel Ridge Stripping	"	55,250	14,610	1,064	-	70,924	-	41,000	-	172	36	-	-	
" Bank	"	24,055	6,361	464	-	30,880	-	-	-	172	10	-	-	
Total for Co.		79,305	20,971	1,528	-	101,804	-	41,000	-		46	-	-	

TWENTY-SIXTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons					Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to	Used at colliery									
		By railroad	By truck	local trade	for steam and heat	Total								
Forgotsch & Co.														
Mine	Schuyl.	-	2,308	-	-	2,308 b	-	250	850	300	6	-	-	
Garber & Co.														
Tunnel Ridge Bank	"	-	10,532	-	-	10,532 h	-	-	-	142	10	-	-	
Gasparini Coal Mng. Co.														
Tunnel Ridge Stripping	"	64,746	-	-	-	64,746 f	-	126,725	-	237	48	1	-	
German & Co.														
Banks	"	4,870	1,288	94	-	6,252 d	-	-	-	51	12	-	-	
Glen Alden Coal Co.														
(B)	Schuyl.	67,936	7,931	4,624	5,527	86,018 m	-	75,850	-	190	386	-	-	
Audenried	Carbon	49,490	5,776	3,369	4,026	62,661 m	-	50,100	-	190	243	1	46	
	Luzerne	2,485	290	170	202	3,147 m	-	2,500	-	190	17	-	-	
" Stripping	Schuyl.	50,783	5,927	3,456	4,133	64,299 r	-	377,950	-	203	51	-	-	
	Carbon	16,737	1,953	1,139	1,363	21,192 r	-	25,150	-	203	16	-	-	
	Luzerne	18,938	2,210	1,290	1,541	23,979 r	-	24,600	-	203	21	-	-	
Total for Co.		206,369	24,087	14,048	16,792	261,296	-	556,150	-		734	1	46	
Halaburda & Co.														
Mine	Schuyl.	2,406	-	-	-	2,406 i	-	-	750	255	6	-	-	
John Jones Coal Co.														
Mine	"	3,510	-	-	-	3,510 g	-	-	1,425	292	8	-	-	
Kadelock & Co.														
Mine	"	2,425	-	-	-	2,425 g	-	1,150	2,100	290	7	-	-	
Keller & Co.														
Mine	"	3,230	-	-	-	3,230 g	-	700	3,675	292	7	-	-	
Kufro & Co.														
Mine	"	-	5,608	-	-	5,608 j	-	600	2,500	291	9	-	4	
Kurchock Stripping Co.														
Silver Brook Stripping	Carbon	15,001	740	-	-	15,741 k	-	15,100	-	230	13	-	1	
Leitzel & Co.														
Mine	Schuyl.	2,280	-	-	-	2,280 g	-	-	1,025	264	6	-	-	
Locust Coal Co.														
Morea Stripping	"	-	-	-	-	- t	-	-	-	56	22	-	-	
Locust Valley Coal Co.														
Mt. Hasle (B)	"	131,346	28,654	-	150	160,150 bk	-	-	-	261	44	-	5	

TWENTY-SIXTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to	Used at								
		By railroad	By truck	local trade	for steam and heat								
Mazaika Bros. Breaker (B)	Schuyl.	-	2,868	-	-	2,868 m	-	-	304	5	-	-	
Morea Mining Co. Morea (B)	"	3,371	608	232	-	4,211 m	-	1,400	139	50	-	3	
New Boston Stripping	"	95,595	10,058	3,826	-	109,479	-	251,075	180	67	-	-	
Total for Co.		98,966	10,666	4,058	-	113,690	-	252,475	-	117	-	3	
Payne Coal Co. Spring Mountain (B) Stripping	Luzerne	-	-	-	-	-	-	-	201	89	-	7	
" " " "	Luzerne	35,140	1,600	1,021	628	38,389	-	105,000	113	37	-	-	
" " " "	Carbon	42,103	2,000	1,950	960	47,013	-	174,000	119	50	-	-	
Spring Brook 1 Stripping	Carbon	28,325	1,323	1,088	747	31,483 m	-	10,150	95	163	1	1	
" " " "	Carbon	52,135	2,430	2,005	407	56,977	-	22,100	137	36	-	-	
Total for Co.		157,703	7,353	6,064	2,742	173,862	-	311,250	-	375	1	8	
Peca Coal Co. Primrose Stripping	Schuyl.	51,598	3,991	2,543	1,135	59,267 m	-	7,175	40,325	223	103	3	
" " " "	"	92,241	7,126	4,261	982	104,610	-	5,125	-	262	106	-	
Total for Co.		143,839	11,117	6,804	2,117	163,877 n	-	12,300	40,325	209	3	15	
Philadelphia & Reading Coal & Iron Co. Mahanoy City	"	118,902	-	-	9,834	128,736 f-m	-	22,675	69,300	192	277	1	
Phoenix Contracting Co. Tunnel Ridge Bank	"	34,068	-	-	-	34,068 o	-	-	-	17	13	-	
Pronio & Co. Mine	"	-	4,295	-	-	4,295 b	-	500	2,800	261	7	-	
Rhoads Contracting Co. Park #1 (B)	"	-	-	-	-	-	-	-	195	72	-	11	
Park #3 (B)	"	55,138	-	-	-	55,138 bk	-	-	211	26	-	-	
Total for Co.		55,138	-	-	-	55,138	-	-	-	98	-	11	
Royal Anthracite Co. Breaker (B)	"	-	2,264	-	-	2,264 m	-	-	45	5	-	-	
Rymar & Co. Mine	"	3,970	-	-	-	3,970 g	-	100	1,300	248	14	3	
Simoes & Co. Mine	"	1,580	2,888	30	-	4,498 p	-	1,300	1,425	238	12	-	

TWENTY-SIXTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to	Used at								
		By railroad	By truck	local trade	for steam and heat								
Skytop Coal Co. Skytop (B)	Schuyl.	3,121	-	1,300	30	4,451 m	-	-	106	20	-	1	
Lykens	"	10,144	-	-	-	10,144 m	-	6,000	121	19	-	-	
Total for Co.		13,265	-	1,300	30	14,595	-	6,000	-	39	-	1	
Stefaro & Co. Tunnel Ridge Bank	"	-	33,064	-	-	33,064 h	-	-	225	13	-	-	
Sullivan Trail Coal Co. (Buck Mountain Cleaner Plant (B) Stripping	"	-	-	-	-	-	-	-	129	6	-	-	
Buck Mtn. Stripping	"	67,028	-	-	-	67,028 g	-	22,560	184	37	-	3	
Buck Mtn. Bank	"	2,900	-	-	-	2,900 g	-	-	15	5	-	-	
Independents	"	13,980	-	-	-	13,980 g-m	-	-	287	38	-	-	
Total for Co.		83,908	-	-	-	83,908	-	22,560	-	86	-	3	
Swilp & Co. Mine	"	-	2,790	-	-	2,790 q	-	100	900	246	7	-	
Trader Horn Coal Co. Silver Brook Stripping	"	21,850	3,354	1,956	2,338	29,498 r	-	20,800	-	151	22	2	
Wat-Rap Coal Co. Spring Brook 1	Carbon	41	4	2	2	49 m-r	-	-	52	26	-	-	
Total for district		1,663,104	262,919	48,147	39,032	2,013,202	-	1,626,435	201,775	2786	7	186	

- (B) Breaker
- a - 29,694 tons prepared at Park #3 breaker of Rhoads Contracting Co., 86,515 tons at Spring Mountain breaker of Payne Coal Co., 60,122 tons at Hazleton Shaft breaker of Lehigh Valley Coal Co. (18th)
 - b - Coal prepared at Skytop breaker
 - c - 1,930 tons prepared at Coleraine breaker of Middle Eastern Coal Co. (15th) and 3,520 tons at Hillside breaker (19th)
 - d - Coal prepared at Gilberton breaker (22nd)
 - e - 5,850 tons prepared at Mammoth Coal Co. breaker (22nd) and 1,204 tons at Skytop breaker
 - f - Coal prepared at St. Nicholas breaker of Phila. & Reading Co. (20th)
 - g - " " Mammoth Coal Co. breaker (22nd)
 - h - Coal prepared at Millersville breaker of Pine Ridge Mining Co., (27th)
 - i - Coal prepared at Morea Mining Co. breaker (26th)
 - j - 3,224 tons prepared at Altamont Coal Co. breaker and 2,384 tons at Atkins Coal Co. breaker (both in 20th)
 - k - 6,893 tons prepared at Audenried breaker of Glen Alden Coal Co., 7,708 tons at Silver Brook Coal Co. breaker (19th), 740 tons at Hillside Coal Co. breaker (19th) and 400 tons at Coleraine breaker of Middle Eastern Coal Co. (15th)
 - l - Operated by Payne Coal Co. to June 30, then by Wat-Rap Coal Co., starting October 15.

TWENTY-SEVENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to	Used at								
		By railroad	By truck	local trade	for steam and heat								
Lucas Bros. Mine	Schuyl.	-	2,502	-	-	2,502 x	-	-	1,800	250	5	-	2
Lucas Coal Co. Schneck c	"	-	3,795	-	-	3,795 m-y	-	420	1,600	46	22	-	1
Malho Coal Co. Malho (B)	"	1,943	21,428	3,169	-	26,540 m-z	-	275	8,600	291	17	-	-
M. & N. Coal Co. Mine	"	2,009	1,410	276	-	3,695 aa	-	-	1,800	262	8	-	-
Morris Ridge Coal Co. Stripping bb	"	12,765	645	67	13	13,490 o	-	50	-	85	20	-	-
Nause & Raker Stripping	"	-	7,825	-	-	7,825 cc	-	1,000	-	101	10	-	1
Neumeister, Irvin Mine h	"	900	256	-	3	1,159 u	-	-	6,000	86	5	-	-
Olenick, Harry & Sons Mine	"	1,883	1,319	246	17	3,465 aa	-	600	2,600	284	6	-	-
Orchard Coal Co. Mine	"	7,500	5,240	1,008	-	13,748 aa	-	232	11,600	286	15	-	-
Otto Bros. Coal Co. Mine	"	-	8,915	-	-	8,915 dd	-	-	25,000	242	20	-	-
Otto, C. M. & Son Kemble (B)	"	-	17,603	2,216	925	20,744 m	-	3,250	19,640	192	53	-	16
Otto Collieries Co. Oakland (B)	"	-	-	-	-	-	-	-	-	212	140	-	12
Bancroft Bank	"	11,020	-	36	26	11,082	-	-	-	211	45	-	-
Total for Co.		11,020	-	36	26	11,082	-	-	-	-	185	-	12
Otto, Huntzinger Co. Mine	"	432	216	52	-	700 aa	-	-	1,500	58	7	-	-
Philadelphia & Reading Coal & Iron Co. Buck Run n (B)	"	24,155	8,750	3,507	2,200	38,612 m-r*	-	13,750	35,622	123	246	-	16
" Stripping v	"	6,929	2,660	1,065	-	10,654 r	-	700	-	143	28	-	-
Hunter Tunnel	"	34,778	842	909	45	36,574 m-ee	-	-	41,100	197	69	-	1

(Continued on next page)

TWENTY-SEVENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-oyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to	Used at								
		By railroad	By truck	local trade	for steam and heat								
Philadelphia & Reading C. & I. Co., Contd.													
) Schuyl.		84,314	4,304	4,330	11,620	104,568 ff-m	-	59,139	77,713	195	236	-)
Potts) Columbia		86,541	4,430	4,245	11,929	107,145 ff-m	-	60,712	79,780	195	243	-	29)
) Northumbd.		16,034	820	785	2,212	19,851 ff-m	-	11,249	14,782	195	44	-)
" Stripping) Schuyl.		949	48	46	-	1,043 ff	-	3,958	-	194	1	-)
) Columbia		106,848	5,450	5,225	-	117,523 ff	-	445,842	-	223	55	-	1)
" Bank) Northumbd.		2,493	127	122	-	2,742 ff	-	10,400	-	194	1	-)
) Columbia		37,754	-	123	91	37,968 k	-	-	-	57	17	-	-
Total for Co.		400,795	27,431	20,357	28,097	476,680	-	605,750	248,997	-	940	-	47
Pine Ridge Mng. Co., Inc. Millersville (B)	Schuyl.	30,640	1,560	162	32	32,394 gg	-	-	-	273	25	-	-
Rickert Bros. Mine	"	2,660	1,860	349	3	4,872 aa	-	400	2,500	298	6	-	-
River Coal Co. Fisher Washery (W)	"	18,981	-	-	-	18,981 a	-	-	-	325	10	-	-
Rizzardi Coal Co., Inc. Mine v	"	-	10,540	-	25	10,565 hh	-	-	2,100	119	29	-	1
Sausnock & Mady Mine	"	-	4,864	-	-	4,864 x	-	-	1,300	304	10	-	2
Schneck Coal Co., Thos. W. Schneck	"	-	20,929	-	5	20,934 m-y	-	2,180	8,000	226	32	-	4
Schrader Coal Co., Inc. Stripping v	"	-	30,241	-	-	30,241 g	-	-	-	142	22	-	-
Schumacher & Son, J. E. Stripping	"	7,200	2,020	-	60	9,280 u	-	-	-	51	19	-	-
Schuylkill Contr'g. Co. Banks	"	33,327	-	-	-	33,327 b	-	-	-	100	14	-	3
Stiely, Wellington Stripping	"	10,086	1,290	235	117	11,728 f	-	600	-	261	7	-	-
Thomas, Geo. A. & Bro. Stripping	"	-	1,500	-	-	1,500 ii	-	-	1,050	50	11	-	-

TWENTY-SEVENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-eyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Used at colliery									
		By railroad	By truck	to local trade	for steam and heat								
Valley Construction Co. Mine	Schuyl.	-	4,932	-	-	4,932 jj	-	-	3,450	247	7	-	-
Stripping	"	1,149	147	27	13	1,336 f	-	-	-	23	5	-	-
Total for Co.		1,149	5,079	27	13	6,268	-	-	3,450		12	-	-
Walaitis Coal Co. Mine	"	4,200	2,930	550	-	7,680 aa	-	2,250	5,300	288	7	-	-
Waterhole Partnership Mine	"	2,560	725	-	4	3,289 u	-	-	5,400	171	6	-	-
Wentz Partnership Mine	"	-	1,532	-	-	1,532 kk	-	-	500	72	6	-	-
Total for district		799,437	383,759	77,373	31,491	1,292,060	-	822,915	612,417		2229	-	141

- | | |
|---|---|
| (B) Breaker | t - Coal prepared at Legal Coal Co. breaker (25th) |
| (W) Washery | u - " " Lamar Coal Co. breaker (25th) |
| a - Bank coal, purchased within the 27th district | v - Discontinued operation in June |
| b - Coal prepared at various breakers | w - Coal prepared at Leon Kocher breaker (25th) |
| c - Discontinued operation in February | x - " " Glenworth " |
| d - Coal prepared at Pine Creek breaker (25th) | y - " " Thos. Schneck " (25th) |
| e - " " Diamond " (23rd) | z - Includes 13,972 tons purchased within 27th district |
| f - " " Westwood breaker of Stevens Coal Co. (25th) | * - " 1,340 " " coal |
| g - " " Floss Coal Co. breaker (21st) | aa - Coal prepared at Swatara Coal Co. breaker (21st) |
| h - Discontinued operation in April | bb - Discontinued operation in September |
| i - Coal prepared at Dancott Coal Co. breaker (24th) | cc - Coal prepared at Floss (21st), Diamond (23rd), Millersville breaker of Pine Ridge Mining Co. (27th) |
| j - " " Franklin Miller breaker (25th) | dd - Coal prepared at Superior breaker of Roy Blyler Co. (25th) |
| k - " " Oakland breaker of Otto Collieries Co. | ee - " " Locust Summit breaker of Phila. & Reading Co. (23rd) and Oakland breaker of Otto Collieries Co. (27th) |
| l - 4,840 tons prepared at Pine Creek breaker (25th) and 755 tons at Franklin Miller breaker (25th) | ff - Coal prepared at Locust Summit breaker (23rd) |
| m - Deep mined | gg - 12,358 tons deep mined and 20,036 tons bank coal, purchased within the 27th district |
| n - Discontinued operation in August | hh - Coal prepared at Oakwood breaker of David Deaven Co. (25th) |
| o - Coal prepared at Millersville breaker of Pine Ridge Mining Co. (27th) | ii - " " Floss breaker (21st) and Legal breaker (25th) |
| p - Formerly operated by Tunnel Coal Co. | jj - " " Legal " (25th) |
| q - Discontinued operation in March | kk - " " DiRenzo " (21st) |
| r - Coal prepared at Oak Hill breaker of Phila. & Reading Co. (21st) | |
| s - " " Indian Head Coal Co. breaker (21st) | |

TWENTY-SEVENTH DISTRICT, CONTINUED

Operators & collieries	County	Production - net tons				Total production	Pounds black powder used	Pounds dynamite used	Pounds permissible explosives used	Days worked	Empl-eyes	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Used at colliery									
		By railroad	By truck	to local trade	for steam and heat								

Deep mined	-	871,505 tons
Stripping	-	252,979 "
Bank	-	167,576 "

TOTAL FOR REGION	33,137,848	4,780,092	3,523,840	947,275	42,389,055	750,750	39,997,515	17,477,288	233	70,357	92	6,824
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REGION - Deep mined	-	26,168,842 tons
Stripping	-	11,376,379 "
Bank	-	4,843,834 "

Man-days for region	15,715,000
Production per fatal for region	460,751 tons
Fatalities per million man-hours	0.83 (Irreducible minimum - 0.16)
Number of anthracite operators	428
Number of mines	695 (352 gaseous - 343 non-gaseous)

OPERATORS PRODUCING 10,000 OR MORE TONS

1951

Operator	Production	Operator	Production
Philadelphia & Reading Coal & Iron Co.	5,310,099	Duryea Anthracite Co.	86,714
Glen Alden Coal Co.	4,883,552	Hydrotated Anth. Fuel Co.	86,579
Hudson Coal Co.	3,581,392	Jos. P. Dando, Sr.	85,500
Lehigh Navigation Coal Co.	3,270,774	Perry Construction Co.	84,351
Lehigh Valley Coal Co.	2,152,182	Genelow Mining Co.	84,194
Susquehanna Collieries Div.		Pioneer City Coal Co.	83,991
M. A. Hanna Co.	1,699,394	Sullivan Trail Coal Co.	83,908
Stevens Coal Co.	1,655,070	Bellevue Coal Co.	83,070
Moffat Coal Co. Interests	1,261,522	Jonathan Coal Mng. Co.	83,041
Jeddo-Highland Coal Co.	949,944	Rosini Bros.	80,720
Number Nine Coal Co.	821,767	Lackawanna Mining & Construction Co.	78,773
Locust Coal Co.	724,995	Eagle Hill Coal Co.	75,495
St. Clair Coal Co.	571,390	Gallizzi Coal Co.	75,311
Hammond Coal Co.	493,875	D. & Z. Coal Co.	74,905
Kehoe-Berge Coal Co.	451,537	Deweese Bros.	72,469
Pennsylvania Coal Co.	450,981	Markson Coal Co.	70,336
Phoenix Contracting Co.	443,477	Gillen Coal Co.	69,202
Raven Run Coal Co.	411,504	L. K. Coal Co.	68,497
Harry E. Coal Co.	368,094	Charles L. Reilly	65,546
Repllier Coal Co.	320,307	Diminick Coal Sales Co.	65,311
Gilberton Coal Co.	318,676	J. Robert Bazley	64,799
Hazle Brook Coal Co.	308,464	Jos. Banks Constr'n. Co.	62,802
Knox Coal Co.	257,316	Conlon Coal Co.	62,413
Huss Contracting Co.	241,098	Sandy Run Miners & Producers Co.	61,865
Jackson Coal Co.	233,256	Jolliett Coal Co.	61,092
Indian Head Coal Co.	218,304	Atkins Coal Co.	60,021
John Booth, Inc.	215,931	Gowen Coal Co.	59,622
Lattimer Coal Corp.	201,866	Motley Coal Co.	57,597
Diamond Coal Co.	190,624	Russell Coal Co.	56,854
Carbonizing Coal Co.	184,813	Nay Aug Coal Co.	56,780
DeAngelis Coal Co.	182,154	Rhoads Contr'g. Co., Inc.	55,841
Mammoth Coal Co.	178,752	Seltzer Coal Co.	54,655
Newport Excavating Co.	178,568	Waddell Coal Co.	53,700
Alpec Coal Co.	176,331	Stanley Coal Co., Inc.	52,962
Payne Coal Co.	173,862	West Slope Coal Corp.	52,500
Mountain Top Coal Co.	173,711	Valley View Coal Co.	51,765
Number Fourteen Coal Co.	170,943	Sussex Coal Co.	50,989
Peca Coal Co.	163,877	Turnpike Coal Co.	50,317
T. & T. Construction Co.	161,275	Sanchez Contr'g. Co.	50,240
Locust Valley Coal Co.	160,150	Michaels Mining Co.	48,313
Natalie Coal Corp.	153,893	Lytle Concentrated C.Co.	45,090
Northwest Coal Co.	146,548	Logan Creek Anth. Co.	44,767
Pompey Coal Co.	141,934	Capparell Contr'g. Co.	44,711
Steam Coals, Inc.	138,617	Pringle Coal Co.	44,520
Heidelberg Coal Co.	133,614	Sickler Estate	41,979
Kohinoor Coal Co.	129,485	Kocher Coal Co.	41,443
Burke Coal Co.	120,661	Meadowside Coal Co.	40,879
Middle Eastern Coal Co.	115,888	Hinchey & McGinley	40,075
Exeter Colliery Co.	114,674	Courtdale Coal Co.	40,049
Morea Mining Co.	113,690	Pine Ridge Mining Co.	39,724
Silver Brook Coal Co.	109,860	Bridg, Inc.	39,365
Plains-Hilldale Coal Co.	105,296	Schuylkill Contr'g. Co.	38,762
Gasparini Coal Mining Co.	105,203	Sun Valley Coal Co.	38,750
Cullen Coal Co.	104,634	Village Slope Coal Co.	38,249
Greenwood Mining Co.	104,154	Jac Coal Co.	38,200
J. E. Schumacher & Son	102,791	Lower Region Coal Co.	36,951
Draper Contracting Co.	101,804	Bird Mining Co.	36,403
Capitol Coal Co.	95,714	Capone Coal Co.	35,352
Colitz Coal Co.	92,250	Branchdale Coal Co.	34,089
Kingston Mining Co.	86,755		

OPERATORS PRODUCING 10,000 OR MORE TONS

1951

Operator	Production	Operator	Production
Floskonka Coal Co.	33,473	Gaylord Coal Co.	15,781
Stefaro & Co.	33,064	Kurchock Stripping Co.	15,744
Garote & Martin	32,172	Joseph Gavalis	15,546
John G. Connell Coal Co.	31,834	Jenkins Coal Co.	15,517
Bres Contracting Co.	30,458	Eddie & Joe Coal Co.	15,288
Schrader Coal Co., Inc.	30,241	Moosic Mountain Coal Co.	15,102
Beaver Brook Coal Co.	30,027	Hoover Coal Mining Co.	14,625
Martinez & Bridg	29,637	Skytop Coal Co.	14,595
Tolerico Coal Co.	29,514	Reuben Hentz	14,457
Trader Horn Coal Co.	29,498	C. P. M. Coal Co.	14,455
Penag Coal Co.	29,429	P. & F. Coal Co.	14,298
Bernice White Ash Coal Co.	28,762	Maurer Coal Sales Co.	14,232
Swift & Co.	28,366	M. A. Tinker Co.	13,916
P. & J. Coal Co.	28,247	Blue Flame Coal Co.	13,889
Linde & Son	28,220	Orchard Coal Co.	13,748
Luzerne County Gas & Elec. Co.	27,457	Morris Ridge Coal Co.	13,490
Simpson Coal Co.	27,279	Peter Laychack	13,340
West Exeter Coal Co.	26,710	Ray Cano	13,132
Malho Coal Co.	26,540	Hickory Contracting Co.	12,701
Reidinger Coal Service	26,479	George Rigdosh & Co.	12,501
Gateway Coal Co.	25,862	Hatter Coal Co.	12,344
Martinez & Broderick	25,823	F. P. Stump	12,219
Weston Coal Co.	25,412	Throop Mining Co.	12,002
Atomic Steam Coals Co.	25,358	Level Coal Co.	11,869
Renninger Coal Co.	24,388	Altamont Coal Co.	11,735
Snyder Coal Co.	24,089	Wellington Stiely	11,728
Ashland Coal Co.	23,573	Lloyd Moyer	11,715
Beaver Meadow Mining Co.	22,973	Blaschak Coal Co.	11,623
K. & D. Coal Co.	22,813	Luther Lengle	11,589
Johnson Coal Sales Co.	22,414	Schrader Coal Co.	11,571
Warnes Coal Co.	22,041	G. W. R. Coal Co.	11,440
Sobleskie Coal Co.	21,420	George W. Ryon Coal Co.	11,175
F. & L. Coal Co.	21,348	Nayduck Coal Co.	11,173
Sarf Coal Co.	20,951	Tamaqua Coal Pockets	11,168
Thos. W. Schneck Coal Co.	20,934	Otto Collieries Co.	11,082
C. M. Otto & Son	20,744	Guzior Coal Co.	11,000
Dancott Coal Co.	20,482	Marlin Lehman & Co.	10,955
Oak Coal Yard	20,400	Broschious & Rumberger	10,947
United Stripping Co.	20,368	Larksville Coal Co.	10,811
Gontarchick Coal Co.	20,066	Duke Mining Co.	10,698
Herb & Reed Coal Co.	19,413	Rizzardi Coal Co., Inc.	10,565
Williams Stripping Co.	19,292	Garber & Co.	10,532
River Coal Co.	18,981	Cranberry Mining Co.	10,257
Rock Ridge Coal Co.	18,641	C. M. & C. Coal Co.	10,197
Drift Contracting Co.	18,435	Fegley & Tretter	10,189
Miscellaneous Banks	18,177	D. & D. Coal Co.	10,030
Old Forge Coal Co.	18,159		
Tarrone Coal Co.	18,038		
Lawrence Tropp	17,960		
Mazzoni Coal Co.	17,949		
Ray Zimmerman	17,718		
Lackawanna Cinder & Silt Co.	17,598		
Nardone Coal Co.	17,293		
Boslego Coal Co.	17,088		
D. A. Kessler	16,723		
Sunshine Coal Co.	16,699		
Keyser Valley Coal Co.	16,561		
Al-Penn Coal Co.	16,420		
West Side Coal Co.	16,346		
Cutler & Farley	16,175		

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INSIDE EMPLOYEES - BY CLASSIFICATION

District	Mine Foremen	Asst. Foremen & Fire Bosses	Miners	Miners' Laborers	Machine Runners	Motor Runners	Motor Runners' Assistants	Drivers & Runners	Trackmen	Bratticemen	Timbermen - Rockmen	Pumpmen	Electricians	Door Attendants	All Others	Total Inside
1	30	27	390	666	22	46	37	11	17	3	22	3	12	-	77	1363
2	25	38	383	655	5	85	55	11	28	11	43	12	14	2	180	1547
3	23	64	474	903	26	85	83	5	40	22	67	7	29	4	324	2156
5	27	64	621	886	10	122	108	6	72	22	108	20	45	27	186	2324
6	20	39	361	534	2	56	55	4	18	14	47	9	19	-	53	1231
7	13	59	355	561	11	77	63	1	31	23	92	10	18	-	240	1554
8	18	76	553	1008	2	125	114	1	29	24	61	29	43	9	145	2237
9	12	64	524	757	4	102	85	2	39	27	56	17	34	10	198	1931
10	16	50	485	699	1	82	76	27	36	19	49	23	17	27	193	1800
11	11	91	521	1031	11	108	101	19	52	33	53	15	16	20	587	2669
12	14	75	764	1127	12	151	141	33	75	47	92	9	27	21	641	3229
13	13	90	625	887	22	144	140	2	61	46	76	13	20	-	442	2581
14	19	75	710	1059	-	109	86	-	17	21	35	7	11	-	388	2537
15	21	48	725	140	4	57	48	6	17	39	37	8	20	-	81	1251
17	8	84	1205	12	10	91	80	-	56	38	512	1	45	10	510	2662
18	14	77	1697	54	4	122	104	4	84	37	333	4	52	4	590	3180
19	13	27	477	73	-	32	25	24	8	20	34	9	5	1	81	829
20	11	82	1151	44	-	98	89	39	35	18	354	9	6	23	284	2213
21	28	15	382	73	-	23	17	5	6	4	44	7	6	-	77	687
22	12	56	831	77	8	56	52	3	19	28	230	14	13	9	181	1589
23	29	64	988	154	-	58	55	37	24	38	187	19	1	6	288	1948
24	22	31	502	135	5	15	11	74	8	15	42	3	10	-	148	1021
25	24	15	287	84	-	13	13	8	5	6	18	-	-	-	47	520
26	31	33	571	217	14	48	38	8	22	16	139	7	14	4	82	1244
27	38	50	580	170	2	43	35	36	10	24	59	9	2	8	239	1305
	492	1394	16,162	12,006	175	1948	1711	366	809	595	2,790	264	479	185	6,262	45,638

Per

OUTSIDE EMPLOYEES - BY CLASSIFICATION

District	Superintendents	Foremen	Blacksmiths & Carpenters	Engineers & Firemen	Trackmen	Slatepickers	Office Employees	All Others	Total Outside	Grand total Inside & Outside
1	25	44	33	100	1	3	48	661	915	2278
2	16	11	46	89	1	9	27	234	433	1980
3	8	22	61	72	1	6	29	613	812	2968
5	19	31	71	66	4	9	76	736	1012	3336
6	10	13	21	44	2	-	26	344	460	1691
7	8	18	52	81	4	5	18	635	821	2375
8	8	14	40	50	4	5	35	341	497	2734
9	11	14	84	79	10	7	22	308	535	2466
10	11	10	38	49	6	-	34	340	488	2288
11	8	12	29	56	2	4	18	481	610	3279
12	10	15	92	86	2	10	39	711	965	4194
13	6	24	74	71	7	19	16	856	1073	3654
14	8	10	51	100	8	17	25	804	1023	3560
15	17	66	122	163	10	-	44	805	1227	2478
17	9	28	67	84	12	12	38	846	1096	3758
18	9	32	61	127	23	2	35	751	1040	4220
19	24	46	44	115	3	10	56	1271	1569	2398
20	9	49	71	89	4	56	77	1546	1901	4144
21	14	24	42	105	2	31	37	758	1013	1700
22	9	60	67	55	3	26	117	1147	1484	3073
23	17	28	64	74	11	41	56	944	1235	3183
24	38	46	53	35	14	20	73	913	1192	2213
25	30	27	38	45	4	33	40	635	852	1372
26	16	46	55	82	8	24	41	1270	1542	2786
27	23	41	57	160	5	45	48	545	924	2229
	363	731	1433	2077	151	394	1075	18,495	24,719	70,357

Per

CIRCULAR LETTER

March 14, 1952

To: All Anthracite Mine Inspectors, Officials and Miners

From: Joseph J. Walsh, Deputy Secretary of Mines

In this letter we shall aim to analyze the 92 fatalities which occurred in the Anthracite mines of Pennsylvania during the year 1951.

Possibly nothing is more timely or more important for the men of the mines to know than that their safety activities are very much on trial today before the country at large, and that they - officials and miners - have an obligation to fit themselves to meet the issues with which they are confronted.

Too many people associated with the mining industry proclaim to high Heaven that they are doing everything practically possible to secure the safety of their workers. Others will say that the human mind is no match for the industrial hazards found in coal mines. Or they may say that the victim of an accident was either careless or lacked the skill and experience to cope with the evil that caused his injury. So let us see what the record reveals.

The average number of years of experience had by the 92 persons killed in the Anthracite mines during the year 1951 is 22, and their average age is 43 years. This does not indicate that the lack of experience had too much to do with the casualties. But let us go on.

It has been found that 69% of the 1951 fatalities were caused by hazards that did not exist one hour before the accident occurred. In the case of the remaining 31% of these fatalities the existence of the hazards extended from two to more than seven hours. Here, it seems, many hazards existed sufficiently long to have been detected and removed. Just think of this! Is it not proof that in many cases supervision was not what it should have been?

You may come up with the question: What does he want, a boss for every worker? No such thing, or anything remotely approaching it, is intended. We do maintain, however, that no one can analyze the statements set forth in this letter and risk saying that reason and common sense do not support those who advocate more and better supervision at the working face.

We could go on and on, citing fact after fact in support of more and better supervision, on the part of the official and the miner, as the cure for the accident evil in coal mines, but a few more will suffice. Thirty-three, or 80%, of the 1951 roof fall fatalities occurred within 10 feet of the working face, in coal seams having thicknesses which permitted the use of the three important senses, "sight, touch and hearing", to detect the condition of the roof. It has further been determined that only 3, or 8%, of the roof fall fatalities resulted from hazards that human intelligence could not have foreseen.

We have on other occasions called your attention to the danger zone in a coal mine - the working face. The combined area of this zone in all of the mines in the Anthracite region consists of about 60 acres. Strange as it may seem, nearly 50% of the fatalities occur in this small area - an area about the size of a little borough nestling somewhere in the coal field. Suppose you give this statement some thought. How many additional officials do you think would be required throughout the whole Anthracite region to supervise frequently, during each shift, the workers engaged in this small area of 60 acres?

My discussion of the next feature could well be considered in conjunction with that which has just been said about supervision. The record clearly indicates that 60% of the 1951 fatalities occurred during the second, third and fourth hours of the working shift. It is during these hours that the miner should exercise extreme caution and the official should step up his supervision to include frequent visits to the working face.

Now let us look into the question of responsibility for these 92 fatalities. Only 15 of them can be charged to industrial hazards - hazards which could not be foreseen. The remaining 77 fatalities, which are accounted for in the following table, are chargeable in some degree to the victim, miner, official and/or others.

CAUSES OF AND RESPONSIBILITY FOR THE
FATALITIES DURING THE YEAR 1951
IN THE ANTHRACITE REGION

Responsibility	Roof falls	Falling material	Blasts	Cars	Explosions of gas	Other causes	Total	Percent of total
Victim	10	2	1	7	-	4	24	26%
Victim & miner	1	-	1	-	-	-	2	2%
Officials	8	1	-	4	-	3	16	18%
Officials & others	-	-	-	1	-	-	1	1%
Official & victim	6	-	1	-	-	2	9	10%
Official & miner	9	-	-	-	7	1	17	19%
Official, victim & others	-	-	2	-	-	-	2	2%
Miner	4	-	-	-	-	-	4	4%
Others	-	-	-	2	-	-	2	2%
Unforeseen hazards (unavoidable)	3	2	-	5	-	5	15	16%
Total	41	5	5	19	7	15	92	
Number avoidable	38	3	5	14	7	10	77	
Percent avoidable	93%	60%	100%	74%	100%	67%	84%	

All of the 92 fatalities charged to the Anthracite industry in 1951 occurred in or about the mines of thirty companies. These companies are credited with an exposure of 72,290,000 man-hours, and their fatality rate per million man-hours is 1.27. The remaining 100-odd coal companies operated through 1951 without a single fatality, although they experienced an exposure of 37,000,000 man-hours. This is slightly more than one-half of the exposure experienced by the 30 companies that had the 92 fatalities. This situation should stimulate thought in the minds of the executive leaders of the 30 coal companies.

Every official and every mine worker should welcome the opportunity to serve, and should endeavor to protect their fellow workers with the same zeal and charity that they themselves might have reason to expect from others. There is not one of us who cannot become a well-informed expert on at least one problem. Let us select the roof fall evil and exert an influence toward its proper solution. Today no one, executive or worker, can remain a passive observer of the roof fall evil, which is responsible for the deaths of an average of 50 Anthracite workers each year.

Thus do we come to the end of our story, confident that those of you who have not been doing so well in the past will realize that complacency is not to be tolerated in a safety program. This is the time for choosing sides, for showing the colors, for taking part in the safety movement. The enemy - the roof fall evil - is very busy.

JW:Per

Fatal Accident Victims - 1951

Name of victim	Address	Company	Colliery, mine, etc.	Date	Cause of injury
Antonelli, William J.	228 Indiana Ave., Shenandoah	(Philadelphia & Reading Coal & Iron Co.	Knickerbocker	Jan. 25	Fall of roof
Balitchick, Stephen	345 S. Locust St., Mt. Carmel	(Susquehanna Colls. Div. (M. A. Hanna Co.	Glen Burn	May 15	Apparently fell into coal chute, suffocated, no witnesses
Baloga, Michael	30 Kulp Ave., Wilkes-Barre	Lehigh Valley Coal Co.	Dorrance	Sept. 14	Fall of rock from silt pile
Blanchard, Joseph	415 Foote Ave., Duryea	Number Nine Coal Co.	Number Nine	Dec. 4	Fall of roof
Eiasi, Augusto	554 Keystone Ave., Peckville	DeAngelis Coal Co.	Rolands	June 7	Fall of roof
Bodton, Thomas	211 W. Fell St., Summit Hill	Lehigh Navigation C.Co.	Tamaqua	Dec. 20	Fall of rock inside battery
Bonner, James	217 Second St., Coaldale	Lehigh Navigation C.Co.	Coaldale	May 17	Crane he was operating became top-heavy, fell on its side
Boyer, Daniel	74 Steele St., Hanover Green, Hanover Township	Glen Alden Coal Co.	Buttonwood	May 22	Fall of roof
Breisch, Henry	Pine Grove, Pa.	Penag Coal Co.	Penag	July 13	Fell from breaker platform to ground
Casper, Henry	935 S. Main St., Old Forge	Kehoe-Berge Coal Co.	#11 Slope	Dec. 14	Runaway mine car caught him against side of gangway
Corra, Nicholas	592 McKinley St., Hazleton	Lehigh Valley Coal Co.	Hazleton Shaft	June 29	Mine cars, dragged and rolled
Damm, George	Brockton, Pa.	Mountain Top Coal Co.	Carbon	Oct. 3	Struck, knocked to ground by falling frame he was handling
Daubert, Melvin	R.D. #1, Mountain Top	Glen Alden Coal Co.	Wanamie	Feb. 16	Fall of roof
Dutzer, Peter	Beaver Brook, Pa.	Payne Coal Co.	Spring Mtn.	Jan. 17	Fall of coal from rib
Eckley, Henry	Shaft, Pa.	George W. Ryan Coal Co.	Wm. Penn #1	Apr. 16	Fall of roof
Edivan, Peter	Tresckow, Pa.	Glen Alden Coal Co.	Audenried	June 20	Fall of slate
Evans, John	29 Hillside St., Wilkes-Barre	Lehigh Valley Coal Co.	Franklin	Aug. 6	Mine cars, run over
Fago, Paul	Centralia, Pa.	Hazle Brook Coal Co.	Continental	Sept. 13	Fall of roof
Fudjack, Michael	22 Line St., Glen Lyon	Glen Alden Coal Co.	Wanamie	Oct. 3	Fall of coal from rib
Galeski, Michael L.	45 W. Noble St., Nanticoke	Glen Alden Coal Co.	Loomis	Feb. 9	Fall of roof
Galli, John	90 Goveier St., Wilkes-Barre	Plains-Hilldale Coal Co.	No. 14 Drifts	Nov. 26	Fall of roof
Garrance, John	54 Friend St., Port Griffith	Kehoe-Berge Coal Co.	Exeter	Jan. 24	Fall of roof
Gatti, Raymond	373 W. 8th St., W. Wyoming	Lehigh Valley Coal Co.	Prospect	Jan. 11	Fall of roof
Golya, John	216 Smith St., Dupont	Guzior Coal Co.	Mine	Jan. 2	Blast
Govera, John	234 W. South St., Mahanoy City	(Philadelphia & Reading Coal & Iron Co.	Mahanoy City	Oct. 8	Fall of coal from rib
Grabouski, Walter	111 S. Broad Mountain Ave., Frackville, Pa.	Peca Coal Co.	Primrose	Aug. 28	Fall of roof
Granahan, James	67 Thistle St., Pittston	Kehoe-Berge Coal Co.	Exeter	June 25	Electrocuted, contact with charged pan line
Gruver, Frank	199 1/2 Main St., Luzerne	Pringle Coal Co.	East Boston	June 11	Fell into shaft

Fatal Accident Victims - 1951

Name of victim	Address	Company	Colliery, mine, etc.	Date	Cause of injury
Hahn, John P.	428 Washington St., Frackville	(Philadelphia & Reading Coal & Iron Co.	Knickerbocker Mine	Feb. 21	Mine cars, caught between
Harvest, William	115 S. Railroad Ave., "	Vlasuk Coal Co.	Mine	Sept. 15	Mine cars - gunboat ran down slope, when blocking broke
Heiser, John	R. D. Barnesville, Pa.	Peca Coal Co.	Primrose	Apr. 13	Blast
Hilbert, Elmer	337 Baltimore St., W. Pittston	Kehoe-Berge Coal Co.	Exeter	Jan. 30	Mine cars, collided with another motor
Holzman, Victor A.	453 Greenbush St., Scranton	Hudson Coal Co.	Marvine	Sept. 17	Fall of roof
Hoover, Jonathan	Market St., Trevorton	Sunshine Coal Co.	Katherine	Feb. 12	Scalded by steam and hot water, when boiler flue blew out
Horvath, Thomas	1059 James St., Hazleton	Lehigh Valley Coal Co.	Hazleton Shaft	June 4	Rush of material from battery
Howell, Harry	Box 131, R.D. 2, Clarks Summit	Russell Mining Co.	Russell	Jan. 5	Fall of roof
Jedrzewski, John	133 River St., Mocanaqua	Glen Alden Coal Co.	Wanamie	June 20	Mine cars, squeezed between while coupling
Juhar, David	1318 Jefferson Ave., Dunmore	Number Nine Coal Co.	No. 6	Nov. 8	Mine cars, struck, run over by runaway trip
Kessler, Guy F.	Tower City, Pa.	(Philadelphia & Reading Coal & Iron Co.	Porter Tunnel	Feb. 5	Asphyxiated by methane
Kinn, Andrew	304 W. Coal St., Nesquehoning	Lehigh Navigation C.Co.	Lansford	Mar. 1	Blast
Kman, Stanley	602 Pancoast St., Dickson City	Turnpike Coal Co.	Turnpike	Sept. 17	Fall of roof
Kobilak, Michael	86 Third St., Larksville	Hudson Coal Co.	Loree	May 11	Railroad car, run over
Konetski, Joseph	1705 Tioga St., Shamokin	(Philadelphia & Reading Coal & Iron Co.	Locust Gap	July 23	Mine cars, caught between car and timber
Konopke, Walter	918 Bennett St., Luzerne	Glen Alden Coal Co.	Buttonwood	Mar. 29	Explosion of gas
Kopack, Michael	1135 Loomis Ave., Taylor	Moffat Coal Co. Interests	Moffat Breaker	Nov. 3	Railroad cars, fell off, run over
Kowalski, Louis	342 S. Main St., Jermyn	Hudson Coal Co.	Olyphant	Aug. 7	Fall of roof
Madden, Thomas	808 Market St., Ashland	(Philadelphia & Reading Coal & Iron Co.	Locust Gap	Oct. 9	Blown into chute by heavy wind, caused by rush of coal
Malinosky, Alexander V.	126 Olga St., Jessup	Hudson Coal Co.	Olyphant	Aug. 13	Fall of roof
Markiewicz, Alexander P.	124 Seventh St., Blakely	Hudson Coal Co.	Eddy Creek	Aug. 14	Fall of roof
Martzen, Michael	94 River St., Carbondale	John Booth, Inc.	Stripping	June 4	Fell from power shovel dragline
Nastalski, Albert	258 Lee Park Ave., Wilkes-Barre	Glen Alden Coal Co.	Buttonwood	Mar. 29	Explosion of gas
Miller, Andrew	528 Maple St., Nanticoke	(Susquehanna Colls. Div. M. A. Hanna Co.	No. 7	May 24	Fall of coal from face
Miller, George	R. D. 2-3, Pittston Blvd., Pittston, Pa.	Glen Alden Coal Co.	Buttonwood	Mar. 29	Explosion of gas
Miller, Harold	205 S. Lemon St., Mt. Carmel	Hazle Brook Coal Co.	Continental	Aug. 20	Cars, fell from motor, run over

Fatal Accident Victims - 1951

Name of victim	Address	Company	Colliery, mine, etc.	Date	Cause of injury
Miller, Harvey	370 N. Washington St., Wilkes-Barre	Hudson Coal Co.	Baltimore	May 3	Fall of roof
Moncavage, Anthony	143 Carroll St., Pittston	Exeter Colliery Co.	*Exeter	Sept. 5	Fall of roof
Morgantini, Marshall	522 Sperling St., W. Wyoming	Lehigh Valley Coal Co.	Westmoreland	Dec. 21	Fall of roof
Nallo, Carl	Avondale Hill, Plymouth	Glen Alden Coal Co.	Avondale	Dec. 10	Blast
Neal, Edward G.	310 Main St., Tremont	Stevens Coal Co.	Westwood	Sept. 1	Railroad car, caught between top of car and door frame
Nestor, John	140 W. Rhume St., Nesquehoning	Lehigh Navigation C.Co.	Lansford	Apr. 10	Rush of coal in battery
Noreika, John C.	75 Brazil St., Wilkes-Barre	Hudson Coal Co.	Pine Ridge	Sept. 13	Fall of roof
Obrzut, John	Larksville, Pa.	Hudson Coal Co.	Loree	Dec. 20	Mine cars moved & caught him against cage
Pelak, Stephen	98 Cleveland St., Hudson	Hudson Coal Co.	Delaware	May 31	Fall of roof
Petch, George	620 1/2 E. Scott St., Olyphant	Hudson Coal Co.	Eddy Creek	Mar. 16	Fall of roof
Pierog, John	35 Railroad St., Glen Lyon	(Susquehanna Colls. Div. M. A. Hanna Co.	Glen Lyon	Feb. 23	Fall of roof
Redclift, Harry	302 E. Market St., Mahanoy City, Pa.	(Philadelphia & Reading Coal & Iron Co.	Maple Hill	July 25	Fall of rock from rockhole
Redenski, Adam	222 Inman Park, Hanover Township, Wilkes-Barre	Glen Alden Coal Co.	Buttonwood	Mar. 29	Explosion of gas
Reilly, William	660 Mary St., Scranton	Moffat Coal Co. Interests	Storrs	July 25	Fall of roof
Ruths, Carl M.	348 S. Market St., Mt. Carmel	Gilberton Coal Co.	Gilberton	Apr. 9	Rush of coal from bank, outside
Rydz, John	336 1/2 S. West St., Shenandoah	(Philadelphia & Reading Coal & Iron Co.	Maple Hill	Apr. 9	Fell down chute while examining work places
Sadora, Steve	62 1/2 Center St., Kingston	Hudson Coal Co.	Loree	Jan. 9	Slide of rock and coal from pile of fallen material
Sauers, Luther	R. D. #2, Weatherly	Lehigh Valley Coal Co.	Hazleton Shaft	Feb. 7	Rush of coal in battery
Schwartz, Joseph	Quakake, Pa.	Peca Coal Co.	Primrose	Apr. 13	Blast
Scicchitano, Anthony	549 Chestnut St., Kulpmont	(Philadelphia & Reading Coal & Iron Co.	Alaska	Dec. 7	Fall of roof
Seamon, Michael	322 1/2 W. Arlington St., Shenandoah, Pa.	Gasparini Coal Mng. Co.	Tunnel Ridge	Feb. 8	Power line pole fell on him
Shimko, Steve	1262 Loomis St., Scranton	Kehoe-Berge Coal Co.	*Exeter	Jan. 30	Mine cars, collided with another motor
Shirvinsky, Joseph	328 W. Penn St., Shenandoah	Locust Coal Co.	Weston	Aug. 13	Explosion of gas
Soldon, Anthony	23 High St., Korm Krest, Wilkes-Barre, Pa.	Glen Alden Coal Co.	Buttonwood	Mar. 29	Explosion of gas
Souto, Joseph	126 Westwood St., Minersville	Garote & Martin, Inc.	Mine	May 13	Fall of roof
Spishock, Paul	Natalie, Pa.	(Philadelphia & Reading Coal & Iron Co.	Alaska	Sept. 26	Fall of roof
Staples, Harold	412 N. Elizabeth St., Tamaqua	Lehigh Navigation C.Co.	Tamaqua	June 29	Fall of rock in battery

Fatal Accident Victims - 1951

Name of victim	Address	Company	Colliery, mine, etc.	Date	Cause of injury
Stensel, Bronislaw	R. D. 3, Wyoming, Pa.	Glen Alden Coal Co.	Loomis	Sept. 7	Asphyxiated by methane
Stoncavage, John	224 Mary St., Olyphant	Hudson Coal Co.	Eddy Creek	Dec. 28	Hoist rope pulled out of pulley and struck him
Toohy, Edward	1116 Walnut St., Ashland	Raven Run Coal Co.	Germantown	July 18	Rush of coal in manway
Trubilla, John	367 Patterson St., Lansford	Lehigh Navigation C. Co.	Coaldale	June 5	Explosion of gas
Wallace, Peter	R. D. #1, Mountain Top	Glen Alden Coal Co.	Huber	Apr. 27	Mine car derailed, he was thrown off and caught against timber
Wertz, Ambrose	R. D. #1, Shickshinny	Glen Alden Coal Co.	Buttonwood	Oct. 5	Fall of roof
Yager, John	231 New St., Duryea	Number Nine Coal Co.	Number Nine	Aug. 16	Mine cars, squeezed between car and prop, while coupling cars
Yazenski, John	201 E. 6th St., Wyoming	Lehigh Valley Coal Co.	Prospect	Jan. 11	Fall of roof
Zelnc, Frank J.	414 Main St., Eynon	Northwest Coal Co.	Raymond	Nov. 12	Runaway mine cars, struck by -
Zetuski, Frank	311 S. Poplar St., Mt. Carmel	(Philadelphia & Reading Coal & Iron Co.	Reliance	Apr. 16	Mine cars, run over, apparently fell while walking ahead of cars
Zidanowicz, Eugene	231 S. Willow St., Mt. Carmel	(Philadelphia & Reading Coal & Iron Co.	Reliance	Jan. 5	Mine cars, run over, jumped from trip when fuse blew and motor had no power

92 Fatalities for the year 1951

* Operated by Kehoe-Berge Coal Co. to August, then taken over by Exeter Collieries Co.

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CAUSES OF FATAL ACCIDENTS, BY COUNTIES, 1951

	Carbon	Columbia	Dauphin	Lackawanna	Luzerne	Northumberland	Schuylkill	Sullivan	Susquehanna	Wayne	Total
Inside											
Direct falls	1	1	-	7	11	2	3	-	-	-	25
Indirect falls	1	-	-	2	7	-	2	-	-	-	12
Cars, transportation	-	1	-	2	10	3	1	-	-	-	17
Explosions of gas	-	-	-	-	5	-	2	-	-	-	7
Blasts	1	-	-	-	2	-	2	-	-	-	5
Electricity	-	-	-	-	1	-	-	-	-	-	1
Falling material	-	-	-	-	2	-	3	-	-	-	5
Fall of person	-	-	-	-	1	1	1	-	-	-	3
Asphyxiated by methane	-	-	-	-	1	-	1	-	-	-	2
Rush of coal or rock	1	1	-	-	1	1	-	-	-	-	4
Total inside	4	3	-	11	41	7	15	-	-	-	81
Outside											
Mine cars	-	-	-	-	-	-	1	-	-	-	1
Railroad cars	-	-	-	1	1	-	1	-	-	-	3
Fall of person	-	-	-	1	-	-	1	-	-	-	2
Rush of coal from culm bank	-	-	-	-	-	-	1	-	-	-	1
Scalded by steam and water when boiler flue blew out	-	-	-	-	-	1	-	-	-	-	1
Crane he was operating became topheavy, fell on its side	-	-	-	-	-	-	1	-	-	-	1
Pole on which power cable was supported fell and struck him	-	-	-	-	-	-	1	-	-	-	1
Struck, knocked to ground by falling framework he was handling	-	-	-	-	-	-	1	-	-	-	1
Total outside	-	-	-	2	1	1	7	-	-	-	11
Grand total	4	3	-	13	42	8	22	-	-	-	92

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PRODUCTION PER FATAL INSIDE, AND PRODUCTION PER FATAL INSIDE AND OUTSIDE, BY DISTRICT

1951

District	Inspector	Deep mined production	Stripping production	Bank production	Total production	Fatalities inside	Fatalities outside	Fatalities total	Production per fatal deep mined	Production per fatal inside & outside
1	J. F. Munley	923,326	693,775	114,018	1,731,119	2	1	3	461,663	577,040
2	T. L. Wackley	1,023,132	141,988	41,471	1,206,591	4	-	4	255,783	301,648
3	W. G. Ward	1,298,354	137,908	119,075	1,555,337	3	-	3	432,785	518,446
5	T. D. Rees	1,167,929	133,098	54,130	1,355,157	2	1	3	583,965	451,719
6	J. J. Bonner	636,500	379,917	22,907	1,039,324	4	-	4	159,125	259,831
7	A. Wilson	683,916	201,150	41,979	927,045	3	-	3	227,972	309,015
8	D. H. Connelly	1,080,829	112,830	123,308	1,316,967	2	-	2	540,415	658,484
9	D. W. Cosslett	990,667	19,607	42,768	1,053,042	8	-	8	123,833	131,630
10	J. C. Hines	1,007,183	172,114	22,996	1,202,293	3	-	3	335,728	400,764
11	T. M. Beaney	1,281,034	223,312	6,436	1,510,782	3	-	3	427,011	503,594
12	E. C. Curtis	1,743,126	192,974	-	1,936,100	2	1	3	871,563	645,367
13	J. D. Edwards	1,168,744	152,810	-	1,321,554	8	-	8	146,093	165,194
14	K. C. Lee	1,543,338	328,536	-	1,871,874	5	-	5	308,668	374,375
15	R. Ditzler	643,766	854,679	129,964	1,628,409	-	-	-	-	-
17	W. J. Clements	1,649,784	438,294	317,070	2,405,148	3	1	4	549,928	601,287
18	J. J. Shober	1,589,309	459,109	38,073	2,086,491	5	-	5	317,862	417,298
19	T. A. Ryan	529,754	1,303,826	239,654	2,073,234	-	1	1	-	2,073,234
20	J. H. Morgan	1,229,453	973,448	633,240	2,836,141	6	1	7	204,909	405,163
21	H. Hilbert	581,164	613,130	234,911	1,429,205	1	-	1	581,164	1,429,205
22	R. O. Schneider	1,066,239	874,690	29,647	1,970,576	3	1	4	355,413	492,644
23	J. P. Brophy	1,166,427	778,792	344,938	2,290,157	6	-	6	194,405	381,693
24	J. R. Ruane	1,360,733	879,789	1,173,975	3,414,497	1	1	2	1,360,733	1,707,249
25	G. E. Smith	325,835	295,713	301,202	922,750	1	2	3	325,835	307,583
26	J. B. Reineohl	606,795	761,911	644,496	2,013,202	6	1	7	101,133	287,600
27	H. E. Shomper	871,505	252,979	167,576	1,292,060	-	-	-	-	-
Region		26,168,842	11,376,379	4,843,834	42,389,055	81	11	92	323,072	460,751

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FATALITIES INSIDE, OUTSIDE, AND TOTAL, PRODUCTION PER FATAL INSIDE, AND PRODUCTION PER FATAL INSIDE AND OUTSIDE, BY OPERATOR

1951

Operator	Deep mined production	Stripping production	Bank production	Total production	Fatalities inside	Fatalities outside	Fatalities total	Production per fatal deep mined	Production per fatal inside and outside	Employees
Stevens Coal Co.	108,931	406,129	1,140,010	1,655,070	-	1	1	-	1,655,070	852
Locust Coal Co.	423,561	225,612	75,822	724,995	1	-	1	423,561	724,995	1123
Moffat Coal Co. Interests (Susquehanna Collieries Div. (M. A. Hanna Co.	1,065,201	196,321	-	1,261,522	1	1	2	1,065,201	630,761	2452
Lehigh Navigation Coal Co.	1,535,860	163,534	-	1,699,394	3	-	3	511,953	566,465	3118
Phila. & Reading Coal & Iron Co.	2,401,962	778,759	90,053	3,270,774	5	1	6	480,392	545,129	5890
Raven Run Coal Co.	2,394,985	2,323,789	591,325	5,310,099	12	-	12	199,582	442,508	8193
Glen Alden Coal Co.	407,400	7,104	-	414,504	1	-	1	407,400	414,504	727
Gilberton Coal Co.	4,187,853	695,699	-	4,883,552	15	-	15	279,190	325,570	13061
Hudson Coal Co.	124,638	175,348	17,053	317,039	-	1	1	-	317,039	523
Number Nine Coal Co.	3,220,861	248,000	112,531	3,581,392	11	1	12	292,806	298,449	6183
Lehigh Valley Coal Co.	617,169	204,598	-	821,767	3	-	3	205,723	273,922	1763
John Booth, Inc.	2,002,195	149,987	-	2,152,182	8	-	8	250,274	269,023	4731
DeAngelis Coal Co.	-	215,931	-	215,931	-	1	1	-	215,931	52
Payne Coal Co.	104,388	77,766	-	182,154	1	-	1	104,388	182,154	259
Mountain Top Coal Co.	31,483	142,379	-	173,862	1	-	1	31,483	173,862	375
Hazle Brook Coal Co.	-	158,455	15,256	173,711	-	1	1	-	173,711	236
Northwest Coal Co.	175,987	132,477	-	308,464	2	-	2	87,994	154,232	637
Exceter Colliery Co.	134,368	12,180	-	146,548	1	-	1	134,368	146,548	282
Plains-Hilldale Coal Co.	114,674	-	-	114,674	1	-	1	114,674	114,674	522
Gasparini Coal Mining Co.	84,990	20,306	-	105,296	1	-	1	84,990	105,296	209
Kehoe-Perge Coal Co.	-	105,203	-	105,203	-	1	1	-	105,203	84
Russell Mining Co.	353,933	49,938	47,666	451,537	5	-	5	70,787	90,307	523
Peca Coal Co.	56,854	-	-	56,854	1	-	1	56,854	56,854	170
Turnpike Coal Co.	59,267	104,610	-	163,877	3	-	3	19,756	54,626	209
Pringle Coal Co.	50,317	-	-	50,317	1	-	1	50,317	50,317	61
Garote & Martin	44,520	-	-	44,520	1	-	1	44,520	44,520	77
Penag Coal Co.	32,172	-	-	32,172	1	-	1	32,172	32,172	32
Sunshine Coal Co.	29,429	-	-	29,429	-	1	1	-	29,429	56
George W. Ryon	6,842	9,857	-	16,699	-	1	1	-	16,699	23
Guzior Coal Co.	11,175	-	-	11,175	1	-	1	11,175	11,175	14
Vlasuk Coal Co.	11,000	-	-	11,000	1	-	1	11,000	11,000	17
Region	7,043	-	-	7,043	-	1	1	-	7,043	9
Region					81	11	92	323,072	460,751	

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ANTHRACITE

Fatalities, Man-Hours of Exposure and
Number of Lives Saved During the Years 1932-1951
As Compared With the Five-Year Period 1927-1931

Year	Actual number of fatals	Million man-hours of exposure	Fatal- ities per million man-hours	No. of fatals expected based upon the 1927-1931 rate	Number of lives saved
1927 - 1931	2252	1116.1	2.01		
1932	243	155.8	1.56	313	70
1933	232	155.9	1.49	313	81
1934	260	178.8	1.45	360	100
1935	267	161.5	1.65	325	58
1936	241	172.7	1.39	348	107
1937	212	153.1	1.38	308	96
1938	223	128.5	1.74	258	35
1939	210	142.7	1.47	287	77
1940	182	143.1	1.27	288	106
1941	189	149.8	1.26	301	112
1942	225	160.8	1.40	323	98
1943	218	168.1	1.29	339	121
1944	171	177.7	0.96	358	187
1945	137	155.3	0.88	313	176
1946	169	171.7	0.98	336	167
1947	165	161.3	1.02	325	160
1948	131	164.3	0.79	331	200
1949	92	124.2	0.74	303	211
1950	86	130.3	0.67	262	176
1951	92	110.0	0.83	222	130
	3745	3065.6		6213	2468

Per

ANTHRACITE

Fatalities Per Million Man-Hours, By Months

Years 1948, 1949, 1950, 1951

	1948	1949	1950	1951
January	1.39	0.80	0.89	0.84
February	0.80	0.99	0.75	0.78
March	0.91	0.84	0.83	0.98
April	0.68	0.90	0.11	1.06
May	0.61	1.00	0.29	0.64
June	0.58	0.54	0.52	0.56
July	1.10	0.22	0.55	0.40
August	1.07	0.66	0.62	0.74
September	0.78	0.51	0.48	0.68
October	0.58	0.83	0.88	0.49
November	0.91	1.00	0.68	0.27
December	0.56	1.02	0.98	0.84
Year	0.85	0.80	0.67	0.83

Per

FATALITIES, BY MONTHS - 1940 to 1951, Inc.

YEAR	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1940	16	18	14	19	17	19	7	11	17	16	12	16	182
1941	22	13	15	11	14	18	15	27	19	13	11	11	189
1942	15	23	20	23	22	21	23	13	17	14	17	17	225
1943	8	14	26	16	20	13	17	22	37 ‡	13	21	11	218
1944	14	21	16	11	14	11	12	14	15	13	16	14	171
1945	14	8	14	13	2 *	17	12	16	8	14	9	10	137
1946	21	21	18	14	17	5	7	10	15	18	10	13	169
1947	34	12	11	16	12	5	12	10	13	14	10	16	165
1948	18	10	12	9	8	7	15	14	10	7	13	8	131
1949	8	10	5	10	11	4	2	7	3	11	12	9	92
1950	8	6	12	1	3	5	6	9	6	13	6	11	86
1951	11	8	7	8	8	10	5	8	10	5	4	8	92
Totals	189	164	170	151	148	135	133	161	170	151	141	144	1857

‡ - Gas explosion (14 victims)
* - Idle 17 days (strike)

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ANTHRACITE COMPANIES AND COLLIERIES HAVING HAD 1,500,000 OR MORE MAN-HOURS OF EXPOSURE, UP TO THE END OF 1951, WITHOUT A FATAL ACCIDENT

Company	Colliery	Date of last fatality	Man-hours accumulated since last fatality	Superintendent	Mine Inspector
Pennsylvania Coal Co.	Ewen	1948	5,395,137	Louis H. Leitner	D. H. Connelly
" " "	Underwood	1948	1,585,994	Ernest C. McCarthy	T. L. Wackley
Total for Co.			6,981,131		
Pompey Coal Co.	Pompey	1938	5,615,267	Charles Shimer	J. F. Munley
Pagnotti Coal Co. Interests	Indian Head	1949	5,127,491	Frank Moran	H. Hilbert
Glen Alden Coal Co.	Empire-Kidder	1948	4,300,183	J. B. Davis	T. M. Beaney
Replier Coal Co.	New Castle	1944	4,269,543	Don Burkett	T. A. Ryan
Phila. & Reading Coal & Iron Co.	Buck Run	1945	4,224,724	Clarence Waite	H. E. Shomper
St. Clair Coal Co.	St. Clair	1948	4,029,730	Edward Williams	T. A. Ryan
Glen Alden Coal Co.	Baker	1949	3,477,252	T. Lester Oliver	T. D. Rees
Phila. & Reading Coal & Iron Co.	Shenandoah Stripping	1946	3,332,033	Jos. Petrusky	J. H. Morgan
Hammond Coal Co.	Hammond	1949	3,307,996	Arthur Sharpe	R. C. Schneider
Glen Alden Coal Co.	Woodward	1950	3,264,440	John R. Mould	E. C. Curtis
Jeddo-Highland Coal Co.	Jeddo #7	1950	3,096,800	Wilmot C. Jones	R. Ditzler
Glen Alden Coal Co.	S. Wilkes-Barre	1949	2,962,721	T. E. Williams	T. M. Beaney
Phila. & Reading Coal & Iron Co.	Locust Summit Breaker	1945	2,950,934	E. D. Williams	J. P. Brophy
Susquehanna Collieries Division					
M. A. Hanna Co.	Alden	1942	2,791,754	William Moore	K. C. Lee
Phila. & Reading Coal & Iron Co.	Newkirk	None	2,611,056	Russell Davies	T. A. Ryan
Glen Alden Coal Co.	Truesdale	1950	2,400,016	N. F. Becker	J. D. Edwards
Hazle Brook Coal Co.	Midvalley	1942	2,151,080	M. Wascovich	R. C. Schneider
Phila. & Reading Coal & Iron Co.	Oak Hill	1950	2,109,397	Leo Freiler	H. Hilbert
Moffat Coal Co. Interests	Pyne-Taylor	1949	2,035,062	William Sanders	T. D. Rees
Glen Alden Coal Co.	Lance	1950	2,014,694	R. H. Hodgson	E. C. Curtis
Harry E. Coal Co.	Harry E.	1949	1,995,732	John Mattick	D. W. Cosslett
Hudson Coal Co.	Lafin	1937	1,933,113	E. R. Williams	J. C. Hines
Harry E. Coal Co.	Mineral Spring	1942	1,932,612	Joseph Mayers	J. C. Hines
Duryea Anthracite Co.	Packer	1946	1,804,583	George Keib	J. C. Hines
Moffat Coal Co. Interests	Continental-Archbald	1949	1,765,543	William Sanders	T. D. Rees
Steam Coals, Inc.	Steam Coals	1944	1,725,379	Harold Weikel	J. R. Ruane
Glen Alden Coal Co.	Sugar Notch	1947	1,685,103	N. F. Becker	J. D. Edwards
Phila. & Reading Coal & Iron Co.	Bear Valley Stripping	1943	1,679,125	Ray Diesenroth	J. R. Ruane
Grand total			87,574,494		

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Accidents in Which Five or More Persons Were Killed, 1847 - 1951

Year	Date	Colliery	Location of colliery	Cause of accident	Number killed
1847	Feb.	Spencer	Pottsville	Explosion of gas	7
1869	Sept. 6	Avondale	Plymouth	Mine fire	110
1870	Mar. 22	Potts	Locust Dale	Boiler Explosion	5
	Aug. 10	Heins & Glassmire	Middleport	Cage fell down shaft	9
	Aug. 29	Preston #3	Girardville	Car fell down slope	7
1871	May 27	West Pittston	West Pittston	Suffocated by smoke from burning breaker	20
	Oct. 2	Otto Red Ash	Branch Dale	Explosion of gas	5
1873	June 10	Henry Clay	Shamokin	" " "	10
1877	May 9	Wadesville	Wadesville	" " "	7
1878	Jan. 15	Potts	Locust Dale	" " "	5
1879	May 6	Audenried	" " "	" " "	6
	Nov. 2	Mill Creek	Mill Creek	" " "	5
1880	May 3	Lykens Valley	Shamokin	" " "	5
1882	May 24	Kohinoor	Shenandoah	" " "	5
1884	Aug. 21	Buck Ridge	Shamokin	Mine fire	7
1885	Apr. 6	Cuyler	Raven Run	Fall of roof	10
	Aug. 11	West End	Mocanaqua	Suffocated by gas from boiler fire	10
	Oct. 21	Plymouth #2	Plymouth	Explosion of gas	6
	Dec. 18	Nanticoke #1	Nanticoke	Inrush of quicksand	26
1886	Aug. 30	Fair Lawn	Scranton	Explosion of gas	6
	Sept. 13	Marvine	Scranton	Suffocated by gas	8
	Nov. 26	Conyngham	Wilkes-Barre	Explosion of gas	12
1887	Apr. 27	Tunnel	Ashland	Suffocated by gas	5
	Oct. 1	Bast	Big Mine Run	Explosion of gas	5
1889	May 9	Kaska, William	Middleport	Car fell on cage in shaft	10
1890	Feb. 1	Nottingham	Plymouth	Explosion of gas	8
	Mar. 3	S. Wilkes-Barre #3	Wilkes-Barre	" " "	8
	Apr. 2	Susquehanna #4	Nanticoke	" " "	5
	May 15	Jersey #8	Ashley	" " "	26
1891	Feb. 4	Spring Mtn. #1	Jeanesville	Drowned - water from old workings	13
	Oct. 23	Richardson	Glen Carbon	Suffocated by gas	7
	Nov. 8	Susquehanna #1	Nanticoke	Explosion of gas	12
1892	Apr. 20	Lytle	Minersville	Drowned - water from old workings	10
	July 23	York Farm	Pottsville	Explosion of gas	15
1893	Apr. 1	Neilson	Shamokin	Mine fire	10
	June 22	Susquehanna #1	Nanticoke	Explosion of gas	5
	Sept. 21	Lance #11	Plymouth	" " "	6
1894	Feb. 13	Gaylord	Plymouth	Fall of roof	13
	July 17	East Sugar Loaf	Stockton	Explosion of powder & dynamite	8
	Oct. 8	Luke Fidler	Shamokin	Mine fire	5
	Oct. 11	Henry Clay	Shamokin	Boiler Explosion	6
1895	Feb. 18	West Bear Ridge	Mahanoy Plane	Explosion of gas	5
	Oct. 7	Dorrance	Wilkes-Barre	" " "	7
1896	June 28	Twin	Pittston	Fall of roof	58
	Oct. 29	S. Wilkes-Barre #3	Wilkes-Barre	Explosion of gas	6
1897	Jan. 13	Wadesville	Wadesville	Crosshead fell down shaft	5
	Sept. 28	Jermyn #1	Rendham	Mine fire	5
	Oct. 30	Von Storch	Scranton	Mine fire	6
1898	May 26	Kaska, William	Middleport	Drowned - water from old workings	6
	Oct. 1	Midvale	Wilkes-Barre	Mine fire	5
	Nov. 5	Exeter	West Pittston	Car fell on cage in shaft	9
1900	Nov. 9	Buck Mountain	Mahanoy City	Explosion of gas	7
1901	Oct. 25	Buttonwood	Plymouth	" " "	6
1902	Nov. 29	Luke Fidler	Shamokin	" " "	7
	Dec. 9	S. Wilkes-Barre	Wilkes-Barre	Explosion, powder & dynamite	5
1904	Jan. 30	Maple Hill	Mahanoy City	" " " "	5
	May 5	Lance	Plymouth	" " " "	5
	May 5	Locust Gap	Locust Gap	Mine fire	5

Accidents in Which Five or More Persons Were Killed, 1847 - 1951, Contd.

Year	Date	Colliery	Location of colliery	Cause of accident	Number killed
1904	May 25	Williamstown	Williamstown	Suffocated by gas from mine locomotive	10
	Nov. 2	Auchincloss	Nanticoke	Falling down shaft	10
1905	Feb. 18	Lytle	Minersville	Fall of roof	5
	Mar. 9	Clear Spring	West Pittston	Falling down shaft	7
	Apr. 26	Conyngham	Wilkes-Barre	" " "	10
1906	May 15	Shenandoah City	Shenandoah	Explosion, powder & dynamite	7
	Aug. 6	Susquehanna #7	Nanticoke	Explosion of gas	6
1907	Mar. 2	Holden	Taylor	" " "	7
1908	June 18	Johnson #1	Priceburg	" " "	7
	May 12	Mount Lookout	Wyoming	" " "	12
	May 13	Prospect	Midvale	Fall of roof	5
	July 15	Williamstown	Williamstown	Explosion, powder & dynamite	6
	Aug. 28	Warrior Run	Wilkes-Barre	Mine cars	6
1909	Mar. 2	Pennsylvania #14	Pittston	Explosion of gas	8
	Nov. 9	Auchincloss	Nanticoke	Mine fire	9
1910	Jan. 11	Nottingham	Plymouth	Explosion of gas	7
	Mar. 12	S. Wilkes-Barre #5	Wilkes-Barre	" " "	7
1911	Apr. 7	Pancoast	Throop	Mine fire	72
	May 27	Cameron	Shamokin	Explosion of gas	5
	Sept. 12	Marvine	Scranton	Mine cars	5
	Oct. 3	Driftton #2	Freeland	Cave-in	5
1912	Jan. 9	Parrish	Plymouth	Explosion of gas	6
1913	Aug. 2	East Brookside	Tower City	" " "	20
1914	May 29	Maryd	Maryd	Overwinding of cage	6
	Sept. 16	Lehigh #4	Lansford	Explosion of gas	7
	Dec. 9	Diamond	Scranton	Falling down shaft	13
1915	Feb. 17	Prospect	Wilkes-Barre	Explosion of gas	13
1916	Feb. 8	Lance #11	Plymouth	" " "	7
	Mar. 9	Hollenback #2	Wilkes-Barre	" " "	6
	Aug. 8	Woodward	Edwardsville	" " "	6
1919	June 5	(Baltimore #5 (Baltimore Tunnel)	Wilkes-Barre	Explosion, powder & dynamite	92
	July 8	Lansford	Lansford	Explosion of gas	8
1921	Mar. 9	Rahn	Seek	" " "	5
1922	Nov. 3	Eddy Creek	Scranton	Premature blast	6
1923	Feb. 21	Alliance	Middleport	Explosion of gas	5
	June 26	Richards	Mount Carmel	" " "	5
	Dec. 8	Mount Jessup #2	Jessup	Fall of roof	5
1924	June 6	Loomis	Nanticoke	Explosion of gas	14
1925	May 22	Woodward	Edwardsville	" " "	7
	Aug. 3	Dorrance	Wilkes-Barre	" " "	10
1926	May 6	Randolph	Port Carbon	" " "	5
	July 3	Pettebone	Kingston	" " "	7
	Oct. 30	Susquehanna #7	Nanticoke	" " "	9
1927	May 26	Woodward	Edwardsville	Fall of roof, followed by an explosion of gas	7
1928	May 25	Baltimore #5	Wilkes-Barre	Explosion of gas	10
1930	Aug. 8	Gilberton	Gilberton	Fall of roof	8
1931	May 29	Richards	Mount Carmel	Explosion of gas	5
1935	Jan. 21	Gilberton	Gilberton	" " "	13
	May 7	S. Wilkes-Barre	Wilkes-Barre	Piece of rock fell down shaft, struck cage	7
1936	Aug. 24	Clear Spring	West Pittston	Explosion of gas	5
1938	Apr. 27	St. Clair	St. Clair	" " "	8
	June 2	Volpe	Pittston Twp.	" " "	10
1943	Sept. 24	Primrose	Minersville	" " "	14
1947	Jan. 15	Nottingham	Wilkes-Barre	" " "	15
	Apr. 10	Schooley	Exeter Boro.	" " "	10
	Dec. 11	Franklin	Wilkes-Barre Twp.	" " "	8
1951	Mar. 29	Buttonwood	Hanover Twp.	" " "	5

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STRIPPING OPERATORS, 1951

Dist- rict	Operator & Stripping	Stripping production	Days worked	Empl- eyes
26	Alpec Coal Co.	34,914	260	84
25	Banks Construction Co., Jos.	62,802	220	22
23	Bazley, J. Robert	64,799	249	36
26	Beaver Brook Coal Co.	13,122	206	35
1	Bliss Coal Co.	7,246	165	8
1	Booth, Inc., John	215,931	252	52
1	Botscheller Coal Co.	6,628	179	6
24	Bridy, Inc.	39,365	225	19
1	Burke Coal Co.	120,661	330	68
2	Butler & Kalata	1,762	25	7
23	Capitol Coal Co.	95,714	203	42
	Capone Coal Co.			
10	Miners Mills	1,234	*	*
15	Tomhicken #5	5,965	171	13
	Total for Co.	7,199		13
	Capparell Construction Co.			
7	Stripping	13,013	121	51
19	"	31,698	214	66
	Total for Co.	44,711		117
2	Carson Coal Co.	5,412	89	7
27	C. B. & M. Coal Co.	14,455	136	14
19	Colitz Coal Co.	83,130	*	*
10	Conlon Coal Co.	24,799	*	*
	DeAngelis Coal Co.			
1	Bolands	77,766	152	32
2	Stripping	1,424	*	*
	Total for Co.	79,190		32
1	Deweese Bros.	72,469	284	47
23	Diamond Coal Co.	5,929	42	15
26	Draper Contracting Co.	70,924	172	36
	Duryea Anthracite Co.			
10	Packer	712	*	*
14	West End	33,364	278	23
	Total for Co.	34,076		23
19	Eagle Hill Coal Co.	75,495	216	22
3	Ellis Coal Co.	590	48	5
6	Gallizzi Coal Co.	75,311	172	19
	Gasparini Coal Mining Co.			
1	Stripping	173	2	8
2	"	40,284	284	28
26	Tunnel Ridge	64,746	237	48
	Total for Co.	105,203		84
1	Gateway Coal Co.	2,733	68	7
25	Gavalis, Joseph	15,546	215	14
22	Gilberton Coal Co.	119,481	240	175
1	Gillen Coal Co.	25,235	344	21
	Glen Alden Coal Co.			
11	Empire-Kidder	200,922	268	42
13	Dick (Huber)	62,581	249	69
13	Kingston Excav.	90,229	273	36
14	Biscontini	56,023	229	31
14	Kingston Excav.	176,474	245	52
26	Audenried	109,470	203	88
	Total for Co.	695,699		318
15	Gowen Coal Co.	52,104	266	16
	Greenwood Mining Co.			
6	Greenwood	16,868	272	8
10	Laflin	1,584	*	*
	Total for Co.	18,452		8

STRIPPING OPERATORS, 1951

Dist- rict	Operator & Stripping	Stripping production	Days worked	Empl- eyes
22	Hammond Coal Co.	231,702	221	64
7	Harris & Walsh	9,569	163	18
	Harry E. Coal Co.			
9	Harry E.	597	22	3
10	Mineral Spring	94,671	*	*
	Total for Co.	95,268		3
	Hazle Brook Coal Co.			
22	Continental	90,758	219	73
22	Midvalley	41,719	231	30
	Total for Co.	132,477		103
6	Heidelberg Coal Co.	20,000	242	9
15	Hess, J. A. & W. A.	241	8	8
27	Hill, Thomas	1,525	50	5
25	Hinchey & McGinley	40,075	237	15
25	Hoffman Bros.	1,526	44	9
	Hudson Coal Co.			
10	Delaware	27,890	*	*
10	Pine Ridge	20,750	*	*
10	Laflin	474	*	*
11	Baltimore	20,886	258	30
12	Loree	178,000	*	*
	Total for Co.	248,000		30
	Huss Contracting Co.			
19	Stripping	170,800	169	78
25	"	70,298	134	33
	Total for Co.	241,098		111
15	Hydrotated Anth. Fuel Co.	9,667	38	45
	Indian Head Coal Co.			
21	Indian Head	19,291	160	59
27	Coal Creek	28,188	114	27
	Total for Co.	47,479		86
19	Jac Coal Co.	38,200	228	32
	Jeddo-Highland Coal Co.			
15	Deringer	32,083	204	25
15	Drifton	62,666	269	30
15	Eckley	137,485	252	160
15	Jeddo #7	238,671	286	59
15	Stockton	601	5	10
15	Tomhicken	11,669	232	25
	Total for Co.	483,175		309
27	J. & S. Coal Co., Inc.	1,449	12	16
	Kehoe-Berge Coal Co.			
5	William A.	16,586	204	9
5	Broadwell	2,848	62	4
5	Hunter-Pittston	30,504	291	18
	Total for Co.	49,938		31
3	Keyser Valley Coal Co.	3,298	36	11
23	K. & H. Contracting Co.	2,214	81	8
12	Kingston Mining Corp.	14,974	*	*
20	Kohinoor Coal Co.	69,663	206	66
26	Kurchock Stripping Co.	15,741	230	13
6	Lackawanna Mng. & Constr'n. Co.	78,773	305	17
15	Lattimer Coal Corp.	108,343	236	65
	Lehigh Navigation Coal Co.			
17	Coaldale	161,820	193	107
17	Tamaqua	276,474	194	257
18	Lansford	340,465	187	225
	Total for Co.	778,759		589

STRIPPING OPERATORS, 1951

Dist- rict	Operator & Stripping	Stripping production	Days worked	Empl- oyes
9	Lehigh Valley Coal Co. Westmoreland	19,010	196	8
11	Franklin	1,504	17	2
15	Black Ridge	13,903	132	15
15	Cranberry	26,617	267	40
18	Hazleton Shaft	88,953	204	64
	Total for Co.	149,987		129
19	Linde & Son	28,220	242	12
6	L. K. Coal Co.	68,497	285	28
20	Locust Coal Co.	225,612	193	160
23	Logan Creek Anthracite Co.	44,767	245	32
5	Lombardi Coal Co.	2,268	32	4
24	Lower Region Coal Co.	19,317	*	*
18	Lynott Contracting Co., Jos.	714	56	4
22	Mammoth Coal Co.	164,931	177	170
23	Martinez & Bridy	29,637	161	15
23	Martinez & Broderick	25,823	183	24
25	McHale & Santor	615	*	*
3	Meadowside Coal Co.	18,591	158	9
15	Middle Eastern Coal Co.	66,608	184	46
	Moffat Coal Co. Interests			
3	Brisbin	1,976	46	16
3	Diamond	31,242	300	36
3	Rockwell	32,104	287	18
3	Storrs	49,989	312	27
3	West Mountain	118	23	4
5	Hyde Park	42,028	217	20
5	Continental	18,067	309	5)
5	Pyne	8,309	58)
5	Taylor	12,488	227	14
	Total for Co.	196,321		140
2	Moosic Mountain Coal Co.	4,772	124	4
26	Morea Mining Co.	109,479	180	67
21	Morgan, Irvin	1,468	23	12
27	Morris Ridge Coal Co.	13,490	85	20
1	Motley Coal Co.	11,112	274	7
	Mountain Top Coal Co.			
15	West End	26,191	119	25
19	Carbon	132,264	210	185
	Total for Co.	158,455		210
23	Natalie Coal Corp.	88,514	261	70
27	Nause & Raker	7,825	101	10
1	Nayduck Coal Co.	11,173	73	28
7	Newport Excavating Co.	178,568	228	139
1	Northwest Coal Co.	12,180	258	21
8	Number Fourteen Coal Co.	7,061	94	17
	Number Nine Coal Co.			
6	Number Nine	120,468	223	57
8	Number Six	84,130	245	36
	Total for Co.	204,598		93
26	Payne Coal Co.	142,379	163	123
26	Peca Coal Co.	104,610	262	106
18	Penn Rich Contracting Co.	1,643	58	12
	Perry Construction Co.			
1	Stripping	1,846	26	14
2	"	82,505	298	23
	Total for Co.	84,351		37

STRIPPING OPERATORS, 1951

Dist- rict	Operator & Stripping	Stripping production	Days worked	Empl- oyes
	Philadelphia & Reading Coal & Iron Co.			
19	Wadesville	208,388	248	276
20	Knickerbocker	122,904	276	159
20	Shenandoah	514,126	218	439
21	Capparell (Oak Hill)	48,240	254	39
21	Capparell (Heckscherville)	222,913	260	180
21	Correale-Beechwood	226,279	292	108
21	Penbrook-Oak Hill	75,647	200	49
22	Bast	92,768	91	69
23	Monitor	220,687	197	39
23	Reliance	180,340	190	102
24	Bear Valley	273,148	267	59
24	Hepburn	6,387	146	16
27	Buck Run	10,654	143	28
27	Potts	121,308	223	57
	Total for Co.	2,323,789		1620
20	Phoenix Contracting Co.	41,143	*	*
22	Pine Ridge Mining Co.	7,330	46	16
1	Pioneer City Coal Co.	70,402	180	27
8	Plains-Hilldale Coal Co.	20,306	321	12
1	Pompey Coal Co.	9,402	92	14
1	Putman, N. B.	6,128	108	8
22	Raven Run Coal Co.	7,104	118	36
25	Reilly, Charles L.	4,226	61	8
19	Replier Coal Co.	180,961	207	83
24	Rosini Bros.	40,000	253	22
19	Sanchez Contracting Co.	50,240	258	19
15	Sandy Run Miners & Producers	61,865	263	42
8	Sarf Coal Co.	1,333	21	5
25	Scheib & Leitzel	1,679	23	5
27	Schrader Coal Co., Inc.	30,241	142	22
	Schumacher & Son, J. E.			
25	Stripping	93,511	168	39
27	"	9,280	51	19
	Total for Co.	102,791		58
25	Schuylkill Contracting Co.	5,435	47	26
19	Silver Brook Coal Co.	18,192	183	43
1	Simpson Coal Co.	10,141	236	9
24	Steam Coals, Inc.	85,586	174	32
19	St. Clair Coal Co.	241,546	238	47
24	Stevens Coal Co.	406,129	182	146
27	Stiely, Wellington	11,728	261	7
26	Sullivan Trail Coal Co.	67,028	184	37
24	Sunshine Coal Co.	9,857	299	15
18	Sun Valley Coal Co.	27,334	177	27
1	Surace Coal Co.	1,184	25	9
	Susquehanna Collieries Division			
	M. A. Hanna Co.			
14	Biscontini (No. 7)	1,158))
14	" (Glen Lyon)	39,313	238)	26)
14	" (Alden)	22,204	239	32
22	Logan Basin	100,859	164	65
	Total for Co.	163,534		123
22	Tarrone Coal Co.	18,038	237	8
27	Thomas & Bro., George A.	1,500	50	11
1	Tolerico Coal Co.	29,514	273	23
26	Trader Horn Coal Co.	29,498	151	22
19	Tropp, Lawrence	17,960	175	14

STRIPPING OPERATORS, 1951

Dist- rict	Operator & Stripping	Stripping production	Days worked	Empl- oyes
2	Turnpike Coal Co.	1,124	*	*
23	United Stripping Co.	20,368	193	17
19	Valent Contracting Co.	1,320	33	11
27	Valley Construction Co.	1,336	23	5
2	Vampi Coal Co.	4,705	157	5
1	Waddell Coal Co.	1,851	173	6
19	Western Coal Co.	25,412	39	26
21	Williams Stripping Co.	19,292	188	10
	Region	11,376,379		7460

* Not segregated from mine and breaker employees and days, therefore, not an accurate record.

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Twenty-three Year Study of Anthracite, By Counties, 1951

	YEAR	CARBON	COLUMBIA	DAUPHIN	LACKAWANNA	LUZERNE	NORTHUMB.	SCHUYLKILL	SULLIVAN	SUSQUE.	WAYNE	REGION
	1924	2,654,820	1,044,724	1,113,048	20,392,400	34,711,150	7,207,553	19,238,222	214,773	655,000	45,759	87,277,449
	1930	1,754,134	685,253	867,363	15,312,853	27,456,102	6,749,282	15,673,224	64,071	91,296	122,981	68,776,559
	1931	1,886,084	865,424	756,274	12,768,631	23,766,625	5,728,763	12,925,765	75,542	184,773	157,506	59,115,387
	1932	1,821,911	497,966	673,078	11,729,255	19,327,982	4,679,188	10,479,627	70,794	97,514	124,196	49,501,511
	1933	1,610,409	556,539	652,057	11,090,350	19,861,441	5,102,704	10,252,019	126,101	130,715	125,242	49,507,577
	1934	2,057,670	917,520	631,835	12,440,808	21,438,372	5,767,112	12,911,938	189,070	179,236	265,390	56,798,951
	1935	1,703,018	824,803	519,467	10,437,254	21,059,166	5,469,278	10,761,971	179,134	216,010	159,010	51,359,111
	1936	1,873,797	1,546,144	400,758	11,154,691	21,315,049	5,208,201	12,333,446	213,847	19,169	198,914	54,264,016
	1937	2,076,398	1,251,044	484,403	9,117,509	22,487,109	4,604,212	11,461,545	99,879	15,339	102,858	51,700,296
	1938	1,947,771	1,157,913	425,871	8,439,828	20,365,737	4,090,787	9,774,216a	49,383	7,030	10,975	46,269,511
	1939	2,514,152	964,346	476,960	9,198,552	23,377,666	4,815,235	9,885,719b	36,684	124,791	5,602	51,399,707
	1940	2,175,348	1,026,366	505,558	9,259,463	22,672,016	4,499,464	11,242,175c	50,844	86,149	9,071	51,526,454
	1941	2,401,741	1,067,473	345,545	8,973,827	24,316,481	4,934,077	11,822,153d	49,179	21,686	10,015	53,942,177
	1942	2,796,798	998,124	57,479	9,344,388	25,767,343	5,295,913	13,520,462e	49,113	62,761	47,248	57,939,629
	1943	3,150,839	861,015	229,826	9,149,617	24,082,663	5,463,150	17,396,092f	101,977	73,037	3,484	60,511,730
	1944	3,644,877	1,447,941	299,349	9,427,467	24,810,042	5,743,444	18,834,594g	147,756	46,216	10,903	64,112,589
	1945	3,345,258	1,121,228	292,662	8,083,021	21,073,255	5,004,063	16,731,289h	187,007	66,452	*	55,901,235
	1946	3,166,205	1,457,754	141,800	9,058,331	22,770,658	6,342,793	18,811,399	105,862	123,908	*	61,978,710
	1947	2,933,809	1,507,884	28,731	8,538,164	21,990,960	6,779,549	16,259,688	46,785	142,415	*	58,227,985
	1948	2,801,893	1,679,495	10,254	8,610,881	21,591,846	6,937,340	17,275,544i	63,230	138,327	*	59,108,810
	1949	2,126,682	1,380,732	61,389	6,221,743	15,989,846	5,200,490	13,538,194j	23,585	167,457	*	44,710,118
	1950	1,988,317	1,281,807	52,275	6,526,466	17,112,757	5,211,307	14,066,493k	26,690	73,143	*	46,339,255
	1951	1,894,035	985,177	30,133	5,775,808	14,882,432	5,749,967	13,021,079 m	28,762	21,662	*	42,389,055
	1924	4,776	2,213	2,043	35,846	63,308	14,660	37,672	708	1,178	99	162,503
	1930	4,216	1,757	2,016	36,317	61,114	11,354	33,082	584	457	274	151,171
	1931	4,160	1,290	1,766	33,797	59,225	11,326	25,654	586	254	342	138,400
	1932	3,870	997	1,657	29,700	50,231	10,084	21,507	703	454	297	119,500
	1933	3,392	1,009	1,285	21,375	44,450	7,980	21,547	718	203	510	102,469
	1934	4,344	948	1,126	22,954	46,737	8,161	21,062	510	200	209	106,251
	1935	4,935	1,324	1,012	20,889	43,701	7,757	19,697	596	403	225	100,539
	1936	5,517	1,697	888	19,607	44,454	7,525	19,159	611	27	219	99,704
	1937	4,282	1,871	877	19,188	45,755	7,489	19,002	426	158	69	99,117
	1938	4,713	1,951	918	17,818	45,731	7,473	18,065 a	290	42	20	97,021
	1939	4,686	1,943	904	17,875	43,344	7,637	16,494 b	215	235	19	93,352
	1940	4,376	1,664	867	16,860	43,238	7,397	16,039 c	187	145	17	90,790
	1941	4,446	1,489	587	14,974	43,726	6,815	16,615 d	144	37	16	88,849
	1942	4,433	1,486	553	14,388	39,219	6,498	16,945 e	104	38	43	83,707
	1943	4,337	1,316	130	13,064	35,807	6,485	18,052 f	164	14	*	79,369
	1944	4,940	1,711	149	12,344	33,660	6,409	18,721 g	211	*	*	78,145
	1945	4,588	1,954	195	11,400	32,888	5,877	19,127 h	207	29	*	76,265
	1946	4,599	2,162	300	12,010	34,526	6,124	20,613	181	41	*	80,556

Twenty-three Year Study of Anthracite, By Counties, 1951

	YEAR	CARBON	COLUMBIA	DAUPHIN	LACKAWANNA	LUZERNE	NORTHUMBD.	SCHUYLKILL	SULLIVAN	SUSQUE.	WAYNE	REGION
Empl- oys, Contd.	1947	4,891	2,319	152	12,381	33,869	6,636	20,302	127	53	*	80,730
	1948	4,637	1,963	61	12,222	34,282	6,521	20,523 i	140	41	*	80,390
	1949	4,420	1,760	83	11,702	35,040	6,009	20,047 j	104	44	*	79,209
	1950	3,739	1,705	125	11,005	33,176	5,852	19,458 k	101	70	*	75,231
	1951	3,872	1,496	153	10,410	30,596	5,583	18,159 m	79	9	*	70,357
Average days worked	1924	278	225	277	276	270	273	271	121	298	295	271
	1930	175	147	184	212	213	265	196	66	115	159	210
	1931	176	178	198	185	175	185	185	66	183	198	180
	1932	139	161	167	169	154	181	164	96	57	106	160
	1933	134	156	191	209	170	211	167	75	192	127	179
	1934	174	218	221	235	192	240	195	174	269	270	206
	1935	147	135	193	206	181	222	181	143	217	198	187
	1936	142	215	159	224	181	213	188	208	171	181	193
	1937	169	202	201	186	190	186	180	123	86	141	186
	1938	166	191	192	178	168	176	168 a	103	85	163	171
	1939	175	164	205	180	190	194	175 b	100	186	144	185
	1940	180	194	204	195	183	180	191 c	132	142	142	187
	1941	190	184	221	205	196	217	196 d	188	154	159	199
	1942	230	235	39	241	259	236	234 e	210	212	219	246
	1943	267	267	287	273	277	259	258 f	239	234	*	269
	1944	293	292	312	300	304	262	274 g	282	*	*	292
	1945	265	267	261	270	274	258	250 h	260	174	*	265
	1946	262	234	74	275	278	257	251	217	272	*	266
	1947	269	270	139	272	283	269	277	183	255	*	277
	1948	272	163	199	279	281	265	250 i	202	188	*	268
1949	197	291	115	224	188	234	216 j	123	260	*	207	
1950	220	280	195	235	205	280	250 k	140	280	*	220	
1951	193	227	180	250	222	240	241 m	192	250	*	233	
Fatal- ities	1924	11	11	7	125	193	38	110	-	1	-	496
	1930	11	-	5	108	164	29	123	-	1	3	444
	1931	6	4	4	116	151	32	67	1	-	3	384
	1932	3	1	8	59	116	13	42	-	-	1	243
	1933	3	-	1	59	110	14	43	2	-	-	232
	1934	7	4	2	59	114	24	47	1	2	-	260
	1935	4	3	7	50	123	16	61	3	-	-	267
	1936	4	-	2	50	137	14	34	-	-	-	241
	1937	5	6	9	35	102	15	38	1	-	1	212
	1938	6	4	5	49	102	13	44	-	-	-	223
	1939	7	5	3	46	108	13	27	-	1	-	210
	1940	6	2	3	35	93	10	33	-	-	-	182
	1941	8	2	2	37	98	7	35	-	-	-	189

Twenty-three Year Study of Anthracite, By Counties, 1951

	YEAR	CARBON	COLUMBIA	DAUPHIN	LACKAWANNA	LUZERNE	NORTHUMBD.	SCHUYLKILL	SULLIVAN	SUSQUE.	WAYNE	REGION
Fatal- ities, Contd.	1942	4	6	-	35	128	16	36	-	-	-	225
	1943	7	5	-	36	103	13	54	-	-	-	218
	1944	12	4	1	37	70	15	32	-	-	-	171
	1945	6	6	-	27	53	13	32	1	-	-	138
	1946	6	6	-	27	79	12	38	1	-	-	169
	1947	4	5	-	25	104	13	15	-	-	-	166
	1948	5	3	-	19	65	5	34	-	-	-	131
	1949	3	1	-	8	60	2	18	-	-	-	92
	1950	4	2	-	8	52	9	11	-	-	-	86
	1951	4	3	-	13	42	8	22	-	-	-	92
Man- days	1924	1,325,996	498,917	566,352	9,879,932	17,094,203	4,008,190	10,214,942	85,557	350,847	29,205	44,054,141
	1930	738,578	257,535	371,794	7,689,354	12,990,705	3,010,032	6,482,976	38,484	52,749	43,458	31,675,665
	1931	730,607	230,208	349,013	6,288,064	10,359,468	2,100,810	4,748,290	38,404	46,601	67,648	24,959,113
	1932	537,711	160,097	276,268	5,011,732	7,724,183	1,822,717	3,516,543	67,632	25,763	31,228	19,173,874
	1933	455,966	157,495	244,098	4,462,932	7,539,709	1,681,984	3,601,752	54,129	38,976	64,680	18,301,721
	1934	756,434	206,878	248,595	5,384,563	8,991,190	1,958,718	4,097,456	88,891	53,800	56,430	21,842,955
	1935	727,462	178,122	195,668	4,301,651	7,899,403	1,724,406	3,570,398	85,202	87,390	44,585	18,814,287
	1936	781,883	367,474	441,498	4,439,859	8,048,873	1,606,329	3,598,172	127,098	4,275	39,496	19,154,957
	1937	725,560	378,726	476,737	3,564,769	8,680,115	1,395,236	3,406,363	52,506	13,648	9,714	18,403,374
	1938	783,486	372,549	475,948	3,162,859	7,699,347	1,316,707	3,039,160 a	28,581	3,570	3,257	16,585,464
	1939	821,611	318,779	485,320	3,225,238	8,234,943	1,483,189	2,888,408 b	21,382	43,656	2,735	17,225,261
	1940	789,117	322,265	476,868	3,288,238	7,959,512	1,328,685	3,067,419 c	24,683	20,590	2,444	16,979,821
	1941	846,859	274,325	429,826	3,063,605	8,586,535	1,479,290	3,260,577 d	27,035	5,708	2,544	17,676,304
	1942	1,021,633	349,214	21,313	3,462,164	10,163,813	1,535,344	3,972,274 e	21,884	8,066	9,432	20,565,137
	1943	1,156,102	351,130	37,310	3,571,795	9,902,178	1,680,211	4,659,538 f	39,286	3,276	*	21,400,826
	1944	1,446,126	500,067	46,488	3,703,717	10,246,301	1,681,792	5,125,620 g	59,589	*	*	22,809,700
	1945	1,213,929	522,380	50,878	3,075,875	9,007,593	1,516,281	4,783,602 h	53,892	5,054	*	20,229,484
1946	1,203,296	506,786	22,220	3,308,524	9,599,152	1,572,477	5,179,903	39,356	16,225	*	21,447,939	
1947	1,320,100	626,568	2,873	3,382,378	9,602,447	1,790,633	5,639,097	23,233	5,202	*	22,392,531	
1948	1,259,080	319,830	12,152	3,409,360	9,641,708	1,725,123	5,130,772 i	28,335	7,704	*	21,534,064	
1949	870,672	511,400	9,553	2,618,620	6,578,335	1,405,854	4,338,959 j	12,760	16,320	*	16,362,473	
1950	823,173	526,441	24,361	2,541,870	6,642,519	1,961,803	5,035,437 k	14,265	30,131	*	17,600,000	
1951	738,600	369,305	27,540	2,420,001	6,110,011	1,693,285	4,340,356 m	13,652	2,250	*	15,715,000	
Pro- duc- tion per fatal	1924	241,347	94,975	159,007	163,139	179,851	189,672	174,893	-	655,000	-	175,963
	1930	159,467	-	173,473	141,786	167,415	232,734	127,425	-	91,296	-	154,902
	1931	314,347	216,356	189,069	110,074	157,395	179,024	192,922	75,542	-	52,502	153,946
	1932	607,304	497,966	84,135	198,801	166,621	369,938	249,515	-	-	124,196	203,710
	1933	536,803	-	652,057	187,972	180,559	364,479	238,419	63,051	-	-	213,395
	1934	293,953	229,380	315,918	210,861	188,056	240,296	274,722	189,070	89,618	-	218,458
1935	425,755	274,934	78,495	208,745	171,213	341,830	176,426	59,711	-	-	192,356	

Twenty-three Year Study of Anthracite, By Counties, 1951

	YEAR	CARBON	COLUMBIA	DAUPHIN	LACKAWANNA	LUZERNE	NORTHUMB.	SCHUYLKILL	SULLIVAN	SUSQUE.	WAYNE	REGION	
	1936	468,449	-	200,379	223,092	155,584	372,014	362,743	-	-	-	225,162	
	1937	415,280	208,507	53,823	260,500	220,462	306,947	301,620	99,879	-	102,858	243,869	
	1938	324,629	289,478	85,174	172,241	199,664	314,676	222,001	-	-	-	207,487	
	1939	359,165	192,869	158,987	199,969	216,460	370,403	366,138	-	124,791	-	244,761	
Pro- duc- tion per fatal, contd.	1940	362,558	513,183	168,519	264,556	243,785	449,946	340,672	-	-	-	283,112	
	1941	300,218	533,736	172,773	242,536	248,127	704,868	337,776	-	-	-	285,408	
	1942	699,200	166,354	-	266,983	201,307	330,995	375,568	-	-	-	257,509	
	1943	450,120	172,203	-	254,157	233,812	420,242	322,150	-	-	-	277,577	
	1944	303,740	286,985	299,349	254,796	354,429	382,896	588,581	-	-	-	374,927	
	1945	557,543	186,871	-	299,371	397,609	384,697	522,853	187,007	-	-	-	405,081
	1946	527,701	242,959	-	335,494	288,236	528,566	495,037	105,862	-	-	-	366,738
	1947	733,452	301,577	-	341,527	211,452	521,504	1,083,979	-	-	-	-	350,771
	1948	560,379	559,832	-	453,204	332,182	1,387,468	508,104	-	-	-	-	451,212
	1949	708,894	1,380,732	-	777,718	266,497	2,600,245	752,121	-	-	-	-	485,980
	1950	497,079	640,904	-	815,808	329,091	579,034	1,278,772	-	-	-	-	538,829
	1951	473,509	328,392	-	444,293	354,344	718,746	591,867	-	-	-	-	460,751
	1924	8.30	22.05	12.36	12.65	11.29	9.18	10.77	-	2.85	-	11.26	
	1930	14.89	-	13.45	14.05	12.62	9.63	18.97	-	18.96	69.03	14.02	
	1931	8.21	17.38	11.46	18.45	14.58	15.23	14.11	26.04	-	44.35	15.39	
	1932	5.58	6.25	28.96	11.77	15.02	7.13	11.94	-	-	32.02	12.67	
	1933	6.58	-	4.10	13.22	14.59	8.32	11.94	36.95	-	-	12.67	
	1934	9.25	19.34	8.05	10.96	12.68	12.25	11.47	11.25	37.17	-	11.90	
	1935	5.50	16.84	35.77	11.62	15.57	9.28	17.08	35.21	-	-	14.19	
	1936	5.12	-	14.13	11.26	17.02	8.71	9.45	-	-	-	12.52	
Fatal- ities per million man- days	1937	6.89	15.84	50.92	9.82	11.75	10.75	11.16	19.04	-	102.94	11.52	
	1938	7.66	10.74	28.42	15.49	13.25	9.87	14.49	-	-	-	13.45	
	1939	8.52	15.68	16.19	14.26	13.11	8.76	9.35	-	22.91	-	12.19	
	1940	7.60	6.21	16.96	10.64	11.68	7.53	10.76	-	-	-	10.72	
	1941	9.45	7.29	15.41	12.08	11.41	4.73	10.73	-	-	-	10.69	
	1942	3.92	17.18	-	10.11	12.59	10.42	9.06	-	-	-	10.94	
	1943	6.05	14.24	-	10.08	10.40	7.74	11.59	-	-	-	10.19	
	1944	8.30	8.00	21.51	9.99	6.83	8.92	6.24	-	-	-	7.50	
	1945	4.94	11.49	-	8.78	5.88	8.57	6.69	18.56	-	-	6.82	
	1946	4.99	11.84	-	8.16	8.23	7.63	7.34	25.41	-	-	7.88	
	1947	3.03	7.98	-	7.39	10.83	7.26	2.66	-	-	-	7.41	
	1948	3.97	9.38	-	5.57	6.74	2.90	6.63	-	-	-	6.08	
1949	3.45	1.96	-	3.06	9.12	1.42	4.15	-	-	-	5.62		
1950	4.86	3.80	-	3.15	7.83	4.59	2.18	-	-	-	4.89		
1951	5.42	8.12	-	5.37	6.87	4.72	5.07	-	-	-	5.85		

Twenty-three Year Study of Anthracite, By Counties, 1951

The year 1924 was selected as a normal year, in order that comparison might be made with the depression years that are made part of this report.

	a - Includes	6,184 tons,	13 employees,	124 days and	1,612 man-days for	Lebanon County
b -	"	13,927 "	5 "	198 "	" "	990 "
c -	"	17,330 "	13 "	136 "	" "	1,773 "
d -	"	30,716 "	26 "	187 "	" "	4,856 "
e -	"	35,641 "	39 "	118 "	" "	4,593 "
f -	"	21,981 "	22 "	257 "	" "	5,654 "
g -	"	21,550 "	14 "	210 "	" "	2,940 "
h -	"	37,690 "	41 "	241 "	" "	9,881 "
i -	"	21,982 "	6 "	223 "	" "	1,338 "
j -	"	21,763 "	7 "	226 "	" "	1,582 "
k -	"	22,978 "	5 "	267 "	" "	1,335 "
m -	"	26,567 "	13 "	308 "	" "	2,020 "

Anthracite Operators, General Managers, Mailing Addresses

1951

Dist-Rict	Operator	General Manager	Address
2	Ace Coal Co.	Enrico Bevilacqua	Blakely, Pa.
1	A. & F. Coal Co.	Richard Fabri	Jessup, Pa.
26	Alpec Coal Co.	Albert Peca	Mahanoy City, Pa.
23	Al-Penn Coal Co.	Edward A. Bridy	Mt. Carmel, Pa.
20	Altamont Coal Co.	Ralph Tenaglia	Frackville, Pa.
2	A. & M. Coal Co.	Harry Giombetti	Jessup, Pa.
27	Andershonis Coal Co.	Joseph Andershonis	Frackville, Pa.
2	A. & R. Coal Co.	Ralph Riccini	Jessup, Pa.
25	Artz, Albert	Albert Artz	Hegins, Pa.
27	Ashland Coal Co.	John Heffner	Ashland, Pa.
20	Atkins Coal Co.	Henry Atkins	Frackville, Pa.
27	Atomic Steam Coals, Inc.	Peter Laychock, Sr., Box 32,	Pottsville, Pa.
25	Banks Constr'n. Co., Jos.	B. C. Banks	Kingston, Pa.
27	# Barba, Jose	Jose Barba	Pottsville, Pa.
22	Barzak Coal Co.	Anthony Barzak	Frackville, Pa.
23	Bazley, J. Robert	J. Robert Bazley	Pottsville, Pa.
26	Beaver Brook Coal Co.	George Huss	Ringtown, Pa.
18	Beaver Meadow Mng. Co.	A. I. McNulty	Beaver Meadow, Pa.
26	Becker & Co.	John Becker	Mahnoy City, Pa.
19	Peckville Coal Co.	E. X. Leeninger	Cressona, Pa.
3-26	Bellevue Coal Co.	R. E. Nolan, N. Washington Av	Scranton, Pa.
10	Bernice White Ash C.Co.	William A. Monahan	Mildred, Pa.
19	Bernitsky Bros.	Joseph Bernitsky	Silver Creek, Pa.
12	Bird Mining Co.	Morgan Bird, Jr.	Plymouth, Pa.
26	Biros Coal Co.	John Biros	Delano, Pa.
26	Blaschak Coal Co.	John Blaschak	Ringtown, Pa.
1	Blasi Coal Co.	Dominic Blasi	Archbald, Pa.
1	Bliss Coal Co.	George C. Eliss	Peckville, Pa.
2	Blue Flame Coal Co.	John Fanucci	Jessup, Pa.
25	Elyler, Roy	Roy E. Elyler	Valley View
19	B. & N. Coal Co.	Paul Eittle	Cressona, Pa.
26	Boner Coal Co.	Ray Webb	Mahanoy City, Pa.
1	Booth, Inc., John	Charles Booth	Carbondale, Pa.
21	Bosack Coal Co.	Frank Bosack	Llewellyn, Pa.
24	Boslego Coal Co.	Andrew Boslego, 738 Pine St.,	Kulpmont, Pa.
1	Botscheller Coal Co.	Leo Botscheller	Dalton, Pa.
27	Bowman Coal Co.	Henry Bowman	Sacramento, Pa.
21	Branch Coal Corp.	Bert Block	Llewellyn, Pa.
27	Branchdale Coal Co.	Milet Butts	Pottsville, Pa.
26	Brehony & Co.	George Brehony	Frackville, Pa.
26	Bres Contracting Co.	John Breslin	Pottsville, Pa.
24	Bridy, Inc.	Edward Bridy	Atlas, Pa.
21	Brilla & Co., John	John Erilla, R. D. 1,	Pottsville, Pa.
26	Brokenshire & Co.	George Brokenshire	Mahanoy City, Pa.
23	Broschious & Rumberger	Reuben Broschious	Shamokin, Pa.
1	Burke Coal Co.	Timothy Burke, Jr., 1222 Marion St.,	Scranton, Pa.
2	# Butler & Kalata	Edward Butler	Peckville, Pa.
9	Butter Tub Coal Co.	John Kamor	West Wyoming, Pa.
21	Cano, Ray	Ray Cano	Minersville, Pa.
23	Capitol Coal Co.	C. J. Chervanick	Shamokin, Pa.
9-10-15	Capone Coal Co.	Samuel J. Capone	Luzerne, Pa.
7-19	Capparell Constr'n. Co.	Joseph Capparell	Hazleton, Pa.
26	Carbonizing Coal Co.	Ray E. Davis	Scranton, Pa.
12	Carey, Baxter & Kennedy	William E. Conway, Box 126,	Plymouth, Pa.
2	# Carson Coal Co.	James W. McNulty	Scranton, Pa.
27	# C. B. M. Coal Co.	Gene Bartoli	Hazleton, Pa.
8	C. & G. Coal Co.	Daniel Costantino, 10 Pittston Ave.,	Yatesville, Pa.
21	Chornack Bros.	Pete Chornack	Cordon, Pa.
27	Chyke Bros.	Charles Chyke	Tremont, Pa.

Anthracite Operators, General Managers, Mailing Addresses

1951

Dist-riect	Operator	General Manager	Address
2	C. & L. Coal Co.	A. C. Calpin	Blakely, Pa.
24	C. M. & C. Coal Co.	Sam Coroniti, 212 W. 4th St.,	Mt. Carmel, Pa.
27	# C. M. & Z. Coal Co.	Steve Carroll	Minersville, Pa.
19	Colitz Coal Co.	Frank Colitz	Pottsville, Pa.
10	Conlon Coal Co.	John Conlon, Jr.	Hudson, Pa.
18	Connell Coal Co., John G.	John G. Connell	Beaver Meadow, Pa.
2	# Consagra Coal Co.	Louis Consagra	Blakely, Pa.
21	Correale, Frank	Frank Correale	Hazleton, Pa.
12	Courtdale Coal Co.	Alex Seleski	Luzerne, Pa.
15	# Cranberry Mining Co.	Ernest Peca	Mahanoy City, Pa.
23	Cullen Coal Co.	John J. Cullen	Mt. Carmel, Pa.
25	Cutler & Farley	Steven Cutler	Goodspring, Pa.
6	Dalebrook Coal Co.	Henry Sindaco	Moosic, Pa.
24-27	Dancott Coal Co.	David Evans, 231 Rock St.,	Shamokin, Pa.
27	Dando, Jos. P., Sr.	Joseph P. Dando	Llewellyn, Pa.
21	Dantas, Alfred	Alfred Dantas	Cressona, Pa.
21	Daub, Lloyd	Lloyd Daub	Muir, Pa.
25	Dayton Coal Co.	Lawrence Keen	Williamstown, Pa.
1-2-5	DeAngelis Coal Co.	Joseph DeAngelis	Carbondale, Pa.
25	Deaven, David	David Deaven	Pine Grove, Pa.
25	# Deaven, Francis	Francis Deaven	R.D. Myerstown, Pa.
27	D. & D. Coal Co.	Angelo DeClerico	Minersville, Pa.
26	Dell Coal Co.	C. H. Altmiller	Hazleton, Pa.
1-12	Deweese Coal Co.	W. K. Deweese, Box 1293,	Kingston, Pa.
9	Dial Rock Coal Co.	Thomas R. Lewis	Wyoming, Pa.
23-24	Diamond Coal Co.	Saverio Grecco, Box 145,	Atlas, Pa.
25	# Dietrich Coal Co.	Willis Dietrich	Williamstown, Pa.
24	Diminick Coal Sales Co.	Ferdinand Diminick, R. D. 5,	Danville, Pa.
21	DiRenzo Coal Co.	Dominic DiRenzo	Minersville, Pa.
5	D. & M. Coal Co.	Dominic Panzitta, R. D. 1,	Pittston, Pa.
26	Draper Contracting Co.	Elmer Christ	Gilberton, Pa.
27	Drift Contracting Co.	Frank Mucha	Frackville, Pa.
24	Duke Mining Co.	Joseph Duke, 1023 W. Willow St.,	Shamokin, Pa.
10-14	Duryea Anthracite Co.	Charles A. Adonizio, Box 311,	Pittston, Pa.
6	Dutch Gap Coal Co.	Douglas Green	Moosic, Pa.
1	Dweczyk Coal Co.	Joe Dweczyk	Peckville, Pa.
24	D. & Z. Coal Co.	Stanley Diminick, Box 118,	Shamokin, Pa.
19	Eagle Hill Coal Co.	E. P. Whitby	Pottsville, Pa.
27	Ebert Coal Co.	George Ebert	Hegins, Pa.
1	Eddie & Joe Coal Co.	Romao Molinari	Peckville, Pa.
23	Elgin & Moleski	Peter Elgin	Atlas, Pa.
3	Ellis Coal Co.	Harry F. Ellis	Dunmore, Pa.
20	Englewood Coal Co.	Russell Tatusko	Frackville, Pa.
25	Erdman Bros.	Jay G. Erdman	Valley View, Pa.
6	Erie Concentrated Fuels Co.,	Hopkin Morgan, 575 N. Pine St.,	Hazleton, Pa.
9	Exeter Colliery Co.	Joseph Capone	Luzerne, Pa.
2	Fabri Coal Co.	Richard Fabri	Jessup, Pa.
21	Falls Coal Co.	John Zernheldt	Zerbe, Pa.
19	Farley & Watkins	Norbert Farley	Primrose, Pa.
21	Fegley & Tretter	Vincent Fegley	Minersville, Pa.
2	F. & G. Coal Co.	Harry Farnetti	Blakely, Pa.
24	F. & L. Coal Co.	Louis Foieri, Box 223,	Shamokin, Pa.
21	Floss Coal Co.	A. J. Schrader	Minersville, Pa.
26	Forgotsch & Co.	Joseph Forgotsch	Mahanoy City, Pa.
6	Gallizzi Coal Co.	Anthony Gallizzi, 129 William St.,	Pittston, Pa.
26	Garber & Co.	Frank A. Garber	Mahanoy City, Pa.
21	Garote & Martin	Charles Martin	Minersville, Pa.
1-2-26	Gasparini Coal Mng. Co.	Gene Gasparini	Blakely, Pa.
1	Gateway Coal Co.	Charles Volpe	Dunmore, Pa.

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Dist- rict	Operator	General Manager	Address
25	Gavalis, Joseph	Joseph Gavalis	Orwigsburg, Pa.
7	Gaylor Coal Co.	Samuel Bird	Plymouth, Pa.
9	Genelow Mining Co.	Joseph Troyan	W. Wyoming, Pa.
26	German & Co.	Williard German	Mahanoy City, Pa.
1	Gianforco Coal Co.	George Gianforco	Archbald, Pa.
20-22	Gilberton Coal Co.	Elmer C. Christ	Gillerton, Pa.
1	Gillen Coal Co.	Thomas Gillen, Sr.	Carbondale, Pa.
5-7-11-12-			
13-14-26	Glen Alden Coal Co.	Henry A. Dierks, 16 S. River St.,	Wilkes-Barre, Pa.
6	G. & M. Coal Co.	Thomas Galbreath, 233 Main St.,	Moosic, Pa.
21	Gontarchick Coal Co.	Michael Gontarchick	Minersville, Pa.
25	Good Peoples Coal Co.	Harry Witmer	Lykens, Pa.
15	Gowen Coal Co.	Elmer Roth	Fern Glen, Pa.
1	Gravine Coal Co.	Frank Gravine	Archbald, Pa.
6-10-15	Greenwood Mining Co.	John S. Marshall, R.D. 2, Laffin,	Wilkes-Barre, Pa.
6	Gregory Coal Co.	Peter Nardone	Dupont, Pa.
22	Grochowski Coal Co.	Leonard Grochowski	Shenandoah, Pa.
2	# G. & S. Coal Co.	Leno Giombetti	Jessup, Pa.
22	Gulbinsky Coal Co.	Julian Gulbinsky	Frackville, Pa.
6	Guzior Coal Co.	Barney Guzior	Dupont, Pa.
21	G. W. B. Coal Co.	William Wentz	Minersville, Pa.
26	Halaburda & Co.	Edward Halaburda	New Boston, Pa.
22	Hammond Coal Co.	R. L. Birtley	Girardville, Pa.
27	Hard-Way Coal Co.	Salvy Saunders	Schuylkill Haven, Pa.
20	Harris Coal Co.	Martin Kunkle	Mahanoy City, Pa.
7	# Harris & Walsh	Irving Harris, 37 Lacka. Ave.,	Scranton, Pa.
9-10	Harry E. Coal Co.	Joseph Mayers	W. Pittston, Pa.
27	Hatter Coal Co.	Ernest Hatter	Hegins, Pa.
19	Haven Coal & Supply Co.	Theo. R. Sterner	Schuylkill Haven, Pa.
22	Hazle Brook Coal Co.	C. A. Garner	Jeddo, Pa.
6	Heidelberg Coal Co.	John B. McDade, Box 38,	Avoca, Pa.
23	Helfenstein Coal Co.	Wilfred Emert	Shamokin, Pa.
25	Hentz, Reuben	Barney G. Marshall	Hegins, Pa.
25	Herb, Allen	Allen Herb	Valley View, Pa.
21	# Herb & Co., Dan	Dan Herb	Valley View, Pa.
21	Herb & Reed	Harry Reed	Tower City, Pa.
21	# Herman, Carl	Carl Herman	Minersville, Pa.
15	# Hess, J. A. & W. A.	J. A. Hess	Hazleton, Pa.
25	Hickory Contracting Co.	H. W. Lark	Shamokin, Pa.
25	High Test Coal Co.	Kenneth L. Curran	Goodspring, Pa.
27	# Hill, Thomas	Thomas Hill	Orwigsburg, Pa.
6	Hillside Coal Co.	Peter Scatina, 323 Main St.,	Dupont, Pa.
19	Hillside Coal Co.	Priscilla Norvidas	Tamaqua, Pa.
27	Hillvue Coal Co.	Lloyd Neumeister	Frackville, Pa.
25	Hinchey & McKinley	Joseph Hinchey, Jr.	Centralia, Pa.
25	# Hoffman Bros.	Joseph Hoffman	St. Clair, Pa.
19	Hoffman Coal Co.	Howard Hoffman	Pottsville, Pa.
19	Hollow Coal Co.	Gabriel DiLozzia	Minersville, Pa.
27	Holohan Coal Co.	Thomas Holohan, R. D. 2,	Pottsville, Pa.
24	Hoover Coal Mining Co.	George Hoover, 118 N. 6th St.,	Sunbury, Pa.
22	H. R. & M. Coal Co.	James Rowbottom	Pottsville, Pa.
1-2-3-5-			
10-11-12	Hudson Coal Co.	John Reid, 434 Wyoming Ave.,	Scranton, Pa.
19-25	Huss Contracting Co.	George Huss	Ringtown, Pa.
15	Hydrotated Anth. Fuel Co.	H. W. Hastie	Lattimer Mines, Pa.
21-27	Indian Head Coal Co.	Louis Pagnotti	W. Pittston, Pa.
19	Indian Run Coal Co.	Thomas Camfield	Cressona, Pa.
20	Ivanowski Coal Co.	Stanley Levanowski	Shenandoah, Pa.

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Dist- rict	Operator	General Manager	Address
19	Jac Coal Co.	George Reichneder	Minersville, Pa.
17	Jackson Coal Co.	B. Rader	Nesquehoning, Pa.
15	Jeddo-Highland Coal Co.	C. A. Garner	Jeddo, Pa.
6	Jenkins Coal Co.	Joseph Capone, 190 Broad St.,	Pittston, Pa.
24	Johnson Coal Sales Co.	Franklin O. Johnson, Box 318,	Shamokin, Pa.
27	Joliett Coal Co.	Louis J. Pagnotti	W. Pittston, Pa.
24-25	Jonathan Coal Mining Co.	Arthur P. Baugh, Jr., 115 E. Montgomery Ave.,	Ardmore, Pa.
26	John Jones Coal Co.	John Jones	Mahanoy City, Pa.
27	J. & S. Coal Co., Inc.	Lloyd Martz	Pottsville, Pa.
26	Kadelock & Co.	John Kadelock	Delano, Pa.
20	# Kalis Coal Co.	Anthony Kalis	Shenandoah, Pa.
23	Karwachi, Peter	Peter Karwachi	Mt. Carmel, Pa.
24	K. & D. Coal Co.	John Dietrich, Box 415	Shamokin, Pa.
25	Kehler, Cleaton	Cleaton L. Kehler	Hegins, Pa.
5-9	Kehoe-Berge Coal Co.	John C. Kehoe, Jr.	Pittston, Pa.
21	Keifer, Lawrence & Co.	Lawrence Keifer	Branchdale, Pa.
26	Keller & Co.	Charles Mogish	Delano, Pa.
23	Kessler, D. A.	C. E. Winklebach	Mt. Carmel, Pa.
3	Keyser Valley Coal Co.	Peter Erojack	Winton, Pa.
23	K. & H. Contracting Co.	Edward Helfrick	Mt. Carmel, Pa.
7	Kingston Excavating Co.	John B. Corgan	Kingston, Pa.
12	Kingston Mining Corp.	Morgan Bird, Jr.	Edwardsville, Pa.
20	Klimas Bros.	Albert Klimas	Shaft, Pa.
19	K. M. F. Coal Service	Joseph Kitowsky	Middleport, Pa.
27	# Knorr-Schneck Coal Co.	Leroy Knorr	Hegins, Pa.
8	Knox Coal Co.	R. L. Dougherty, Box 32	Wyoming, Pa.
25-27	Kocher, Leon	Leon Kocher	Valley View, Pa.
20	Kohinoor Coal Co.	R. L. Birtley	Shenandoah, Pa.
25	Koppenhaver, Howard	Howard Koppenhaver	Tremont, Pa.
26	Kufro & Co.	Joseph Kufro	Barnesville, Pa.
26	Kurchock Stripping Co.	Joseph Kurchock	Hazleton, Pa.
1	Lackawanna Cinder & Silt Co.		
6	Lackawanna Mining & Construction Co.	Richard Avery, 1307 Capouse Ave.,	Scranton, Pa.
25	Lamar Coal Co.	Joseph Grill, 104 N. Main St.,	Old Forge, Pa.
12	Larksville Coal Co.	Sol Fox	Donaldson, Pa.
24	Latsha Coal Co.	Alex Seleski	Luzerne, Pa.
15	Lattimer Coal Corp.	Daniel R. Latsha, R.D. 1, Box 217,	Elysburg, Pa.
21	Laychack, Peter	George Chisnell	Hazleton, Pa.
25	Legal Coal Co.	Peter Laychack	Minersville, Pa.
21	Lehman & Co., Marlin	Kenneth L. Curran	Goodspring, Pa.
17-18	Lehigh Navigation Co.	Marlin Lehman	Tremont, Pa.
9-10-11-		W. J. Parton	Lansford, Pa.
15-18	Lehigh Valley Coal Co.		
26	Leitzel & Co.	K. F. Arbogast, 133 N. River St.,	Wilkes-Barre, Pa.
21	Lengle, Luther	John Mack	Barnesville, Pa.
24	Level Coal Co.	Luther Lengle, R. D. 3	Pine Grove, Pa.
19	Linde & Son	Frank V. Appel, Box 45	Shamokin, Pa.
21	Live Oak Coal Co.	C. Linde	Honesdale, Pa.
6	L. K. Coal Co.	Peter Laychack	Minersville, Pa.
20-26	Locust Coal Co.	John Kaminski, 378 State Road,	Dupont, Pa.
26	Locust Valley Coal Co.	J. J. Crane	Shenandoah, Pa.
23	Logan Creek Anth. Co.	Herman Yudacofsky	Mahanoy City, Pa.
19	Lohb Coal Co.	David J. Pizzoli	Atlas, Pa.
5	# Lombardi Coal Co.	J. Harold Fisher	Pottsville, Pa.
24	Lower Region Coal Co.	Dominick Lombardi, 86 Frothingham St.,	Pittston, Pa.
27	Lucas Bros.	Modes Fieri, Box 240	Shamokin, Pa.
27	# Lucas Coal Co.	John Lucas	Branchdale, Pa.
27		Joseph Lucas	Lykens, Pa.

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Dist- rict	Operator	General Manager	Address
18	Luzerne-Carbon Coal Co.	Herbert Ryan	Hazleton, Pa.
9	Luzerne County Gas-Elec.	Charles E. Warsaw	Kingston, Pa.
25	# Lykens Valley Coal Co.	Reuben Aboff	Loyalton, Pa.
18	# Lynott Contracting Co., Jos.	Joseph Lynott	Beaver Meadow, Pa.
21	# Lytle Concentrated C.Co.	Hopkin Morgan	Hazleton, Pa.
6	# Major Coal Co.	Adam Major, Spring St.	Avoca, Pa.
27	Malho Coal Co.	Anthony Malho	Lavelle, Pa.
22	Mallio Coal Co.	Nick Mallio	Frackville, Pa.
22	Mammoth Coal Co.	Joseph Mayers	W. Pittston, Pa.
19	Marchese Coal Co.	John Marchese	Cressona, Pa.
25	Markson Coal Co.	Edwin A. Weyman	Goodspring, Pa.
23	Marquette & Leichty	Lamar Leighty	Shamokin, Pa.
25	Martin & Keating	Ralph Keating	Pine Grove, Pa.
23	Martinez & Bridy	Edward A. Bridy	Atlas, Pa.
23	Martinez & Broderick	John J. Broderick	Wilburton, Pa.
20	Matrishin Coal Co.	Andrew Matrishin	Park Crest, Pa.
24	Maurer Coal Sales Co.	Charles Maurer, Box 318	Shamokin, Pa.
26	Mazaika Bros.	Edward Mazaika, R. D.	Tamaqua, Pa.
1	Mazzoni Coal Co.	Delmo Mazzoni	Peckville, Pa.
6	M. B. Coal Co.	Stanley Barovitz, 242 Pittston Ave., Avoca, Pa.	Scranton, Pa.
3	M. & B. Coal Co.	Quentin Materazzi	Pottsville, Pa.
25	McHale & Santor	James McHale	St. Clair, Pa.
21	McCullough & Rizzardi	John McCullough	Dunmore, Pa.
3	Meadowside Coal Co.	Joseph Rosetti	Old Forge, Pa.
6	Merthyr Coal Co.	W. W. Fletcher	Pottsville, Pa.
21	Michaels Mining Co.	Harold Fisher	Junedale, Pa.
15	Middle Eastern Coal Co.	Eugene J. Gibbons	Minersville, Pa.
19	Millard Coal Co.	Joe Millard	Ravine, Pa.
25	Miller, Franklin	Franklin Miller	Pine Grove, Pa.
25	Miller, Robert	Robert Miller	R. D., Heggies, Pa.
25	Miller, Rufus	Rufus Miller	Pottsville, Pa.
27	M. & N. Coal Co.	Michael Olenick	R. D. 1, Scranton, Pa.
3-5	Moffat Coal Co. Interests	Earl Lamb, P. O. Box 486,	Jessup, Pa.
2	Moosic Mtn. Coal Co.	Leno Giombetti	Morea, Pa.
26	Morea Mining Co.	J. D. Connors	R. D. 3, Ashland, Pa.
21	# Morgan, Irvin	Irvin Morgan	Valley View, Pa.
25	Morgan, Roy	Roy Morgan	Wilburton, Pa.
27	# Morris Ridge Coal Co.	Joseph Martinez	Mayfield, Pa.
1	Motley Coal Co.	Sandy Consagra	Pittston, Pa.
5	Mountain Slope Coal Co.	Luke Keating, 417 N. Main St.,	Tuscarora, Pa.
15-19	Mountain Top Coal Co.	Ralph H. Peters	R. D. Pine Grove, Pa.
25	Moyer, Lloyd	Lloyd Moyer	Peckville, Pa.
2	# Mt. Alden Coal Co.	D. J. Beardslee	Excelsior, Pa.
24	Mutual Coal Co.	Walter Kruzick	Charles Namura, 831 S. Valley Ave., Olyphant, Pa.
6	Namura Coal Co.	Charles Namura, 831 S. Valley Ave.,	Pittston, Pa.
6	Nardone Coal Co.	Matt Macarilla, Box 352	Natalie, Pa.
23	Natalie Coal Corp.	Peter J. Mucha	Shamokin, Pa.
25	# Nause, Victor	Victor Nause	Shamokin, Pa.
27	Nause & Raker	Victor Nause	Scranton, Pa.
3	Nay Aug Coal Co.	Frank J. Collins	Mayfield, Pa.
1	# Nayduck Coal Co.	John Guzey	Ashland, Pa.
27	# Neumeister, Irvin	Irvin Neumeister	R. D. Nanticoke, Pa.
7	Newport Excavating Co.	L. F. Biscontini	Carbondale, Pa.
1-3	Northwest Coal Co.	Oresti Paoletti	Pittston, Pa.
8	Number 14 Coal Co.	Charles Gelson, Box 379,	W. Pittston, Pa.
6-8	Number Nine Coal Co.	Joseph Mayers, Exeter Ave.	Shamokin, Pa.
24	Oak Coal Yard	Ernest Landis, 943 Center Ave.,	Pine Grove, Pa.
25	O'Brien, Pat	Harry O'Brien	

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5	Old Forge Coal Co.	Albert Minichello, Box 55,	Old Forge, Pa.
27	Olenick & Sons, Harry	Harry Olenick, R. D. 1,	Pottsville, Pa.
2	Ondrick Coal Co.	John Ondrick	Clarks Summit, Pa.
27	Orchard Coal Co.	Ross Withelder	Zerbe, Pa.
27	Otto Bros. Coal Co.	Norman Otto	R.D. 2, Heggies, Pa.
27	Otto Collieries Co.	Paul R. Williamson	Ashland, Pa.
27	Otto, Huntzinger Co.	Palmer Otto	R.D. 2, Heggies, Pa.
25	# Otto Miners	Norman R. Otto	Heggies, Pa.
27	Otto & Son, C. M.	Herman Otto	R.D. 2, Heggies, Pa.
6	Panzitta Coal Co.	Dominick Panzitta, R. D. 3,	Jenkins Twp., Pa.
26	Payne Coal Co.	Bruce Payne	Wilkes-Barre, Pa.
26	Peca Coal Co.	Albert Peca	Mahanoy City, Pa.
25	Penag Coal Co.	Edward G. Twigg	Shamokin, Pa.
1	Penbrook Coal Co.	Richard Fabri	Archbald, Pa.
3	# Penn Anthracite Co.	F. D. Shoemaker	Scranton, Pa.
18	Penn Rich Contracting Co.	Carl D. Snyder	New Tripoli, Pa.
19	Penna Coal Co.	Joseph Penna	Minersville, Pa.
2-8	Pennsylvania Coal Co.	Ralph Lambert, Box 391	Scranton, Pa.
1-2	Perry Construction Co.	Alex Fink, 825 Olive St.	Scranton, Pa.
18	P. & F. Coal Co.	Rudolph Paulick	Luzerne, Pa.
19-20-21-22-23-			
24-25-26-27	Philadelphia & Reading Coal & Iron Co.	George J. Clark	Pottsville, Pa.
20-26	Phoenix Contracting Co.	Bart Herrity	Ashland, Pa.
25	Pine Creek Coal Co.	Harrison Klinger	Spring Glen, Pa.
22-27	Pine Ridge Mining Co.	S. A. Kotch	Ashland, Pa.
1	Pioneer City Coal Co.	Angelo Giombetti	Carbondale, Pa.
8	P. & J. Coal Co.	Henry Sindaco, Inkerman Road,	Pittston, Pa.
8	Plains-Hilldale Coal Co.	Carlo Saporito, R. D. 2,	Wilkes-Barre, Pa.
1	Ploskonka Coal Co.	Louis Ploskonka	Peckville, Pa.
1	Pompey Coal Co.	Charles Pompey	Jessup, Pa.
10	Pringle Coal Co.	Mark J. Luksic, Box 81,	Luzerne, Pa.
1	Putman, N. B.	N. B. Putman	Honesdale, Pa.
25	# Raudenbush, Joseph	Joseph Raudenbush	Williamstown, Pa.
22	Raven Run Coal Co.	C. A. Carner	Jeddo, Pa.
20-23	Reading Briquet Co.	Henry F. Laugenslager	Locust Gap, Pa.
24	Reidinger Coal Service	Victor Reidinger	Box 62, Paxinos, Pa.
15-25	Reilly, Charles L.	T. J. Reilly	Hazleton, Pa.
21	Renninger Coal Co.	Theo. Renninger	Zerbe, Pa.
19	Replier Coal Co.	D. H. Burket	Buck Run, Pa.
22	Resig Coal Co.	Luther Resig	Barnesville, Pa.
25-26	Rhoads Contracting Co., Inc.	C. E. Machamer	Ashland, Pa.
6	# Rhonda Coal Co.	Ray Davis, Bowman Bldg.,	Scranton, Pa.
27	Rickert Bros.	Thomas Rickert	Valley View, Pa.
25	Rigdosh & Co., George	Earl Bush	Tower City, Pa.
6	Ritzie Coal Co.	Anthony Ritzie, 200 McLane St.,	Dupont, Pa.
27	River Coal Co.	Chas. A. Fisher, Jr.	Orwigsburg, Pa.
27	# Rizzardi Coal Co., Inc.	Arnold Rizzardi	Minersville, Pa.
23	Rock Ridge Coal Co.	Samuel J. Rumberger	Shamokin, Pa.
2	Rosetti Coal Co.	Ubaldo Rosetti	Jessup, Pa.
24	Rosini Bros.	Evaldo J. Rosini	S. 5th St., Shamokin, Pa.
26	Royal Anthracite Co.	Roy Allen, R. D.	Tamaqua, Pa.
6	Russell Coal Co.	Stephen DuBernas	Old Forge, Pa.
26	Rymar & Co.	John Rymar	McAdoo, Pa.
20	Ryon Coal Co.	George W. Ryon	Pottsville, Pa.
21	Sabitsky & Co., Anthony	Anthony Sabitsky	Minersville, Pa.
1	# Sacco Coal Co.	Frank Sacco	Jessup, Pa.
21	Salen, James	James Salen	Tremont, Pa.
1	# Salvaggio Coal Co.	Dominic Salvaggio	Mayfield, Pa.
19	Sanchez Contracting Co.	Alonzo Sanchez	Minersville, Pa.

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15	Sandy Run Miners & Producers	Thomas George, Jr.	Freeland, Pa.
6-8	Sarf Coal Co.	Louis Sarf, Box 352,	Pittston, Pa.
27	Sausnock & Mady	Edward Mady	Pottsville, Pa.
25	# Scheib & Leitzel	Floyd Scheib	Hegins, Pa.
25-27	Schneck, Thos.	Thomas W. Schneck, R. D.	Pine Grove, Pa.
21	# Schrader Coal Co.	A. J. Schrader	Minersville, Pa.
27	# Schrader Coal Co., Inc.	Earl Mathews	Taylor, Pa.
25-27	Schumacher & Son, J. E.	J. E. Schumacher	Pottsville, Pa.
5	Schuster Coal Co.	Henry Schuster, 531 Wintermantle Ave.,	Scranton, Pa.
25-27	Schuylkill Contracting Co.	James V. Ryan, R. D.	Pottsville, Pa.
20	Seltzer Coal Co.	Frank Seltzer	Frackville, Pa.
20	Sergynsky Coal Co.	Leo Slominsky	Shenandoah, Pa.
25	Shade, Lawrence	Lawrence Shade	Valley View, Pa.
20	# Shanahan Coal Co.	Frank Shanahan	Pottsville, Pa.
21	Sherman Mountain Coal Co.	Allen Gauntlett	Tremont, Pa.
7	Sickler Estate	James A. Bell	Wilkes-Barre, Pa.
19	Silver Brook Coal Co.	Joseph Crane	Pottsville, Pa.
26	Simoes & Co.	Manuel Simoes	Mahanoy City, Pa.
1	Simpson Coal Co.	Steve Yancheck	Carbondale, Pa.
26	Skytop Coal Co.	D. E. Perrira	Mahanoy City, Pa.
2	Smith Coal Co.	John Smith	Eynon, Pa.
20	Snowshoe Coal Co.	Manuel Delpazo	Frackville, Pa.
2	Snyder Coal Co.	Benjamin Snyder	Throop, Pa.
2	Sobleskie Coal Co.	John Sobleskie	Jessup, Pa.
14	Stackhouse Coal Co.	Richard Bullock	Shickshinny, Pa.
24	Stanley Coal Co., Inc.	Kenneth Sperring, Box 282,	Shamokin, Pa.
20	Stauffer & Klimas	Nelson Stauffer	Shaft, Pa.
19	St. Clair Coal Co.	Harold M. Smyth	St. Clair, Pa.
24	Steam Coals, Inc.	H. S. Weikel, Box 12,	Shamokin, Pa.
26	Stefaro & Co.	Michael Stefaro	Gilberton, Pa.
24-25	Stevens Coal Co.	George H. Jones	Wilkes-Barre, Pa.
27	Stiely, Wellington	Wellington Stiely	Valley View, Pa.
6	Stodnick Coal Co.	George Stodnick, 379 State Road,	Dupont, Pa.
25	# Stone Hill Coal Co.	Lester Hassinger	Loyalton, Pa.
25	Stump, F. B.	F. B. Stump, R. D.	Pine Grove, Pa.
9-26	Sullivan Trail Coal Co.	Joseph Mayers	W. Pittston, Pa.
24	Sunshine Coal Co.	Ralph Steinhart, Box 206,	Trevorton, Pa.
1	Sunshine Coal Co.	John Luchetti	Peckville, Pa.
18	Sun Valley Coal Co.	Ralph Peters	Junedale, Pa.
1	Surace Coal Co.	Frank L. Surace	Childs, Pa.
14-22-24	Susquehanna Collieries Div.		
	M. A. Hanna Co.	C. A. Gibbons	Nanticoke, Pa.
6	Sussex Coal Co.	C. E. Banker, Box 310,	Pittston, Pa.
21	Swatara Coal Co.	Price Parker	Minersville, Pa.
24	Swift Coal Co.	Adam Swift, 400 Center St.,	Shamokin, Pa.
26	Swilp & Co.	Al. Slack	Gilberton, Pa.
2	Swoyer Coal Co.	Harry Swoyer	Jessup, Pa.
19	Tamaqua Coal Pockets	D. W. Warne	Tamaqua, Pa.
22	Tarrone Coal Co.	Anthony Tarrone	Raven Run, Pa.
27	Thomas, Geo. A. & Bro.	George A. Thomas	Shamokin, Pa.
2	Throop Mining Co.	James Fawcett	Throop, Pa.
19	Tinker, M. A.	M. A. Tinker	Pottsville, Pa.
1	Tolerico Coal Co.	Constantino Tolerico	Simpson, Pa.
26	Trader Horn Coal Co.	W. Hartman	McAdoo, Pa.

Anthracite Operators, General Managers, Mailing Addresses

1951

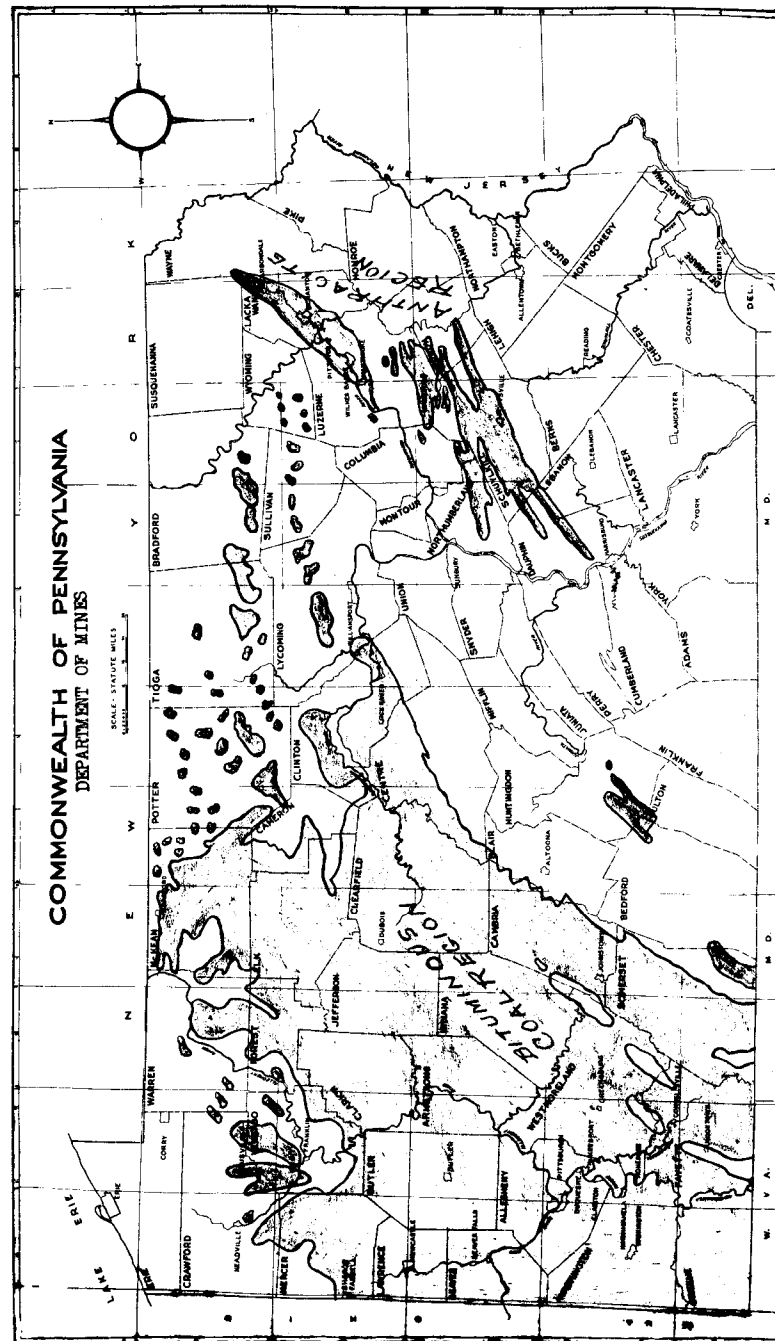
Dist- rict	Operator	General Manager	Address
6	Traglia Coal Co.	Nick Traglia, 406 Parsonage St.,	Pittston, Pa.
19	Trail Coal Co.	David Smith	Pottsville, Pa.
19	Tropp, Lawrence	Ed. Helfrick	Mt. Carmel, Pa.
21	T. & T. Construction Co.	Titus Taylor	Tremont, Pa.
25	Underkoffler, Herschel	Herschel Underkoffler	Williamstown, Pa.
23	United Stripping Co.	George Kolego	Natalie, Pa.
6	V Coal Co.	Thomas Galbreath, 230 Main St.,	Moosic, Pa.
19	Valent Contracting Co.	Dominic Valent	Pottsville, Pa.
27	Valley Construction Co.	George Fronk	Valley View, Pa.
8	Valley View Coal Co.	John A. Hart, Nat. Bank Bldg.,	Scranton, Pa.
2	Venture Coal Co.	John Federowich	Jessup, Pa.
2	Village Slope Coal Co.	Louis Coccodrilli	Jessup, Pa.
2	Vispi Coal Co.	Rigo Vispi	Jessup, Pa.
20	Vlasuk Coal Co.	Leonard Tokarczyk	Frackville, Pa.
1	Waddell Coal Co.	Peter Erojack	Winton, Pa.
27	Walaitis Coal Co.	John A. Walaitis	Frackville, Pa.
5	Warnes Coal Co.	Joseph Warnes	Old Forge, Pa.
27	Waterhole Partnership	Martin Remninger	Tremont, Pa.
23	Water Level Coal Co.	Daniel Klokis	Kulpmont, Pa.
26	Wat-Rap Coal Co.	Harold Watkins	Wyoming, Pa.
27	# Wentz Partnership	Joseph Wentz	Branchdale, Pa.
9	West Exeter Coal Co.	Thomas R. Lewis	Wyoming, Pa.
10	West Side Coal Co.	Walter Songaila, Box 26,	Luzerne, Pa.
3	West Slope Coal Corp.	Harry Cimini	Scranton, Pa.
19	Weston Coal Co.	Joseph Crane	Shenandoah, Pa.
21	Williams Striping Co.	Harold Fisher	Pottsville, Pa.
21	Zerbe & Griffith	Elmer Zerbe	Zerbe, Pa.
25	Zimmerman & Flanagan	Marlin Zimmerman	Ravine, Pa.
25	Zimmerman, Ray	Ray Zimmerman	Pine Grove, Pa.

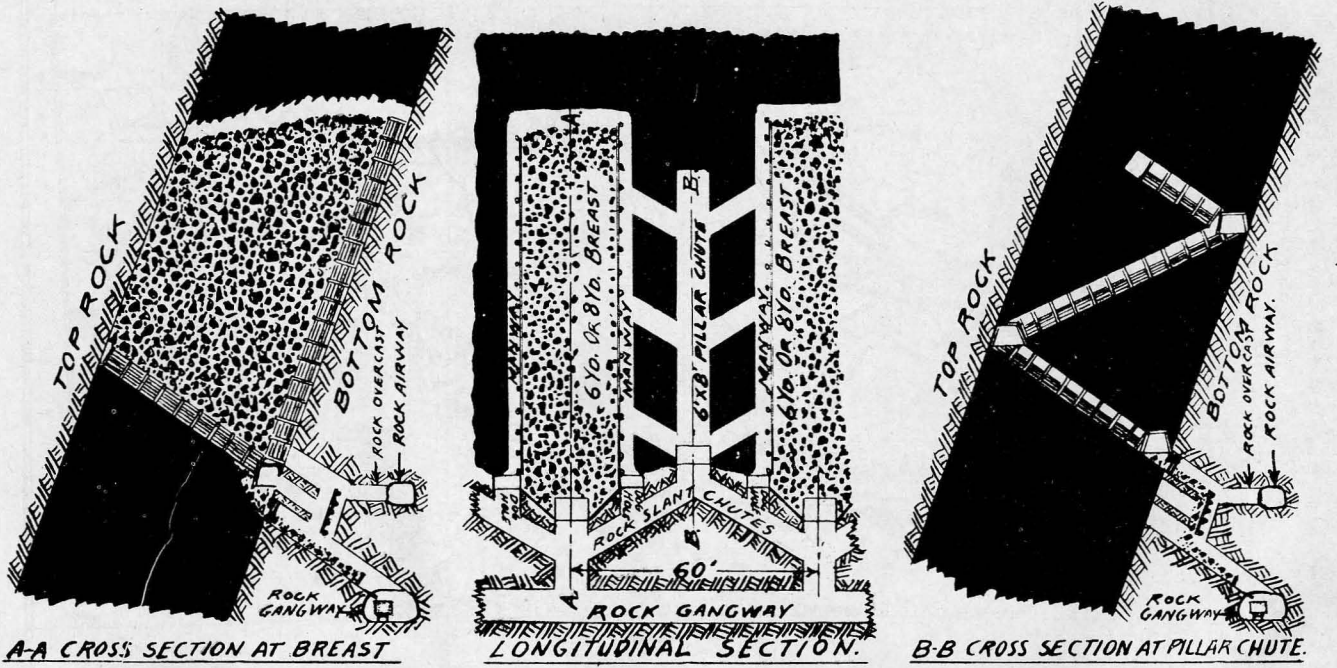
428 Operators

Ber

Report Covering Mines Employing Fewer Than
Five Persons, But Not Fewer Than Two

Dist- rict	Number of mines	Number of employes all mines	Aggregate number of man-days worked	Total production all mines	Fatal acci- dents	Non- fatal acci- dents	Production per fatal accident
1	13	35	1,627	11,490	-	-	-
2	14	37	2,119	21,740	1	-	21,740
3	5	14	587	5,868	-	-	-
5	6	18	1,259	12,267	-	-	-
6	2	8	425	5,357	-	-	-
7	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-
15	3	7	407	1,228	-	-	-
17	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-
19	61	190	39,900	212,000	2	6	106,000
20	16	55	2,375	43,053	-	12	-
21	57	199	30,000	137,310	3	14	45,770
22	132	421	62,862	156,123	-	65	-
23	66	235	39,116	105,794	-	2	-
24	95	345	17,899	214,488	16	6	13,406
25	174	609	133,858	465,450	2	14	232,725
26	72	234	52,764	79,452	-	4	-
27	152	478	69,733	217,528	-	13	-
	868	2,885	454,931	1,689,148	24	136	70,381





A-A CROSS SECTION AT BREAST

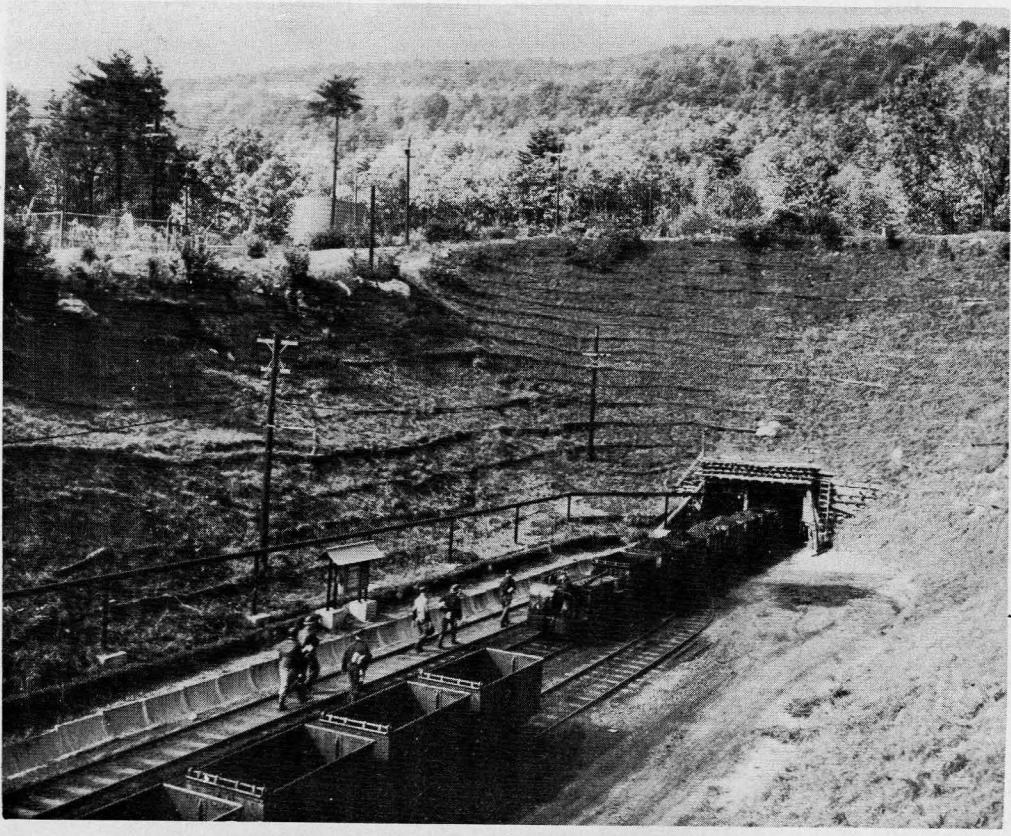
LONGITUDINAL SECTION.

B-B CROSS SECTION AT PILLAR CHUTE.

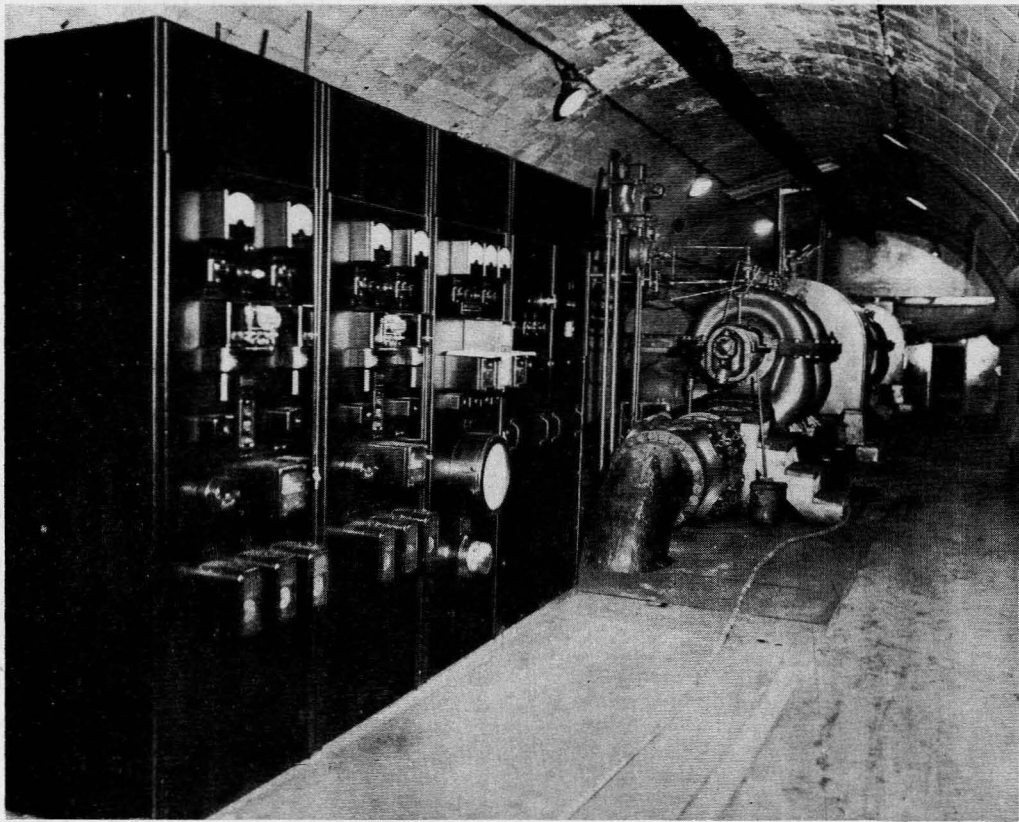
BREAST AND PILLAR CHUTE METHOD FOR MINING THICK STEEPLY PITCHING MAMMOTH VEIN, FROM ROCK GANGWAY AND ROCK CHUTES.

August 26-1949.

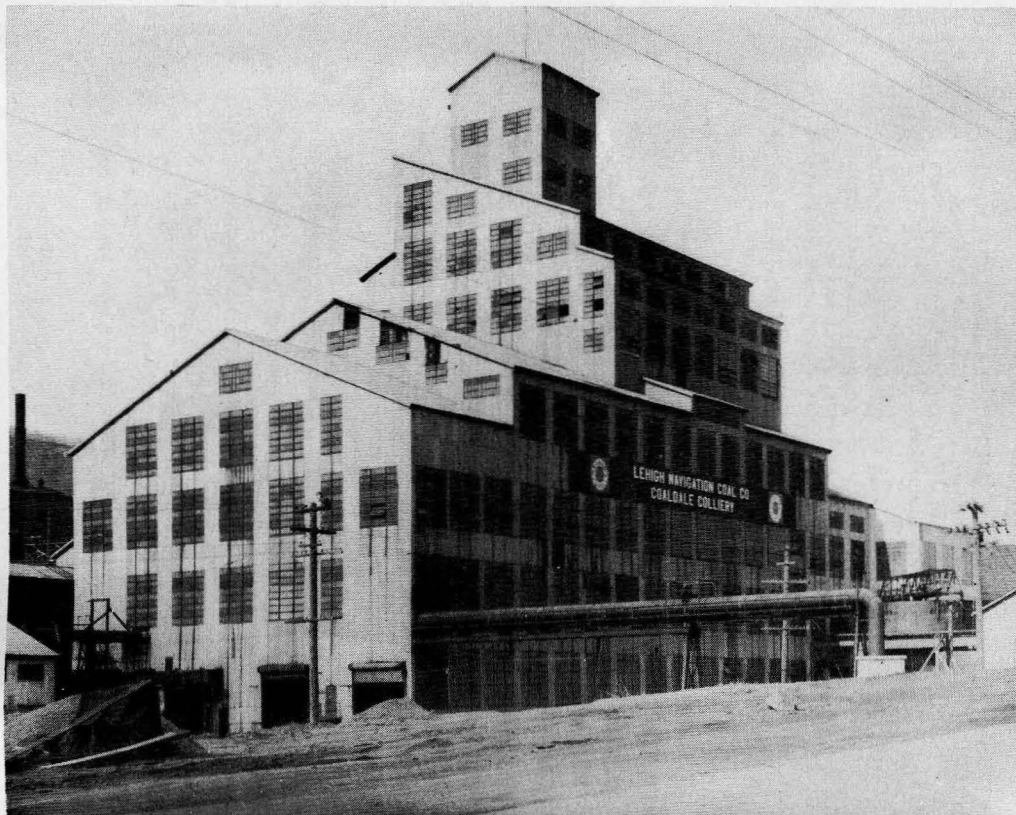
M-302



Portal To An Anthracite Mine



Pump Room and Panel Control Board in an Anthracite Mine



I N D E X

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