

COMMONWEALTH OF PENNSYLVANIA

RAYMOND P. SHAFER

Governor



*PENNSYLVANIA*

DEPARTMENT of MINES and MINERAL INDUSTRIES

H. B. CHARMBURY

Secretary

ANTHRACITE DIVISION

1967

ANNUAL REPORT

Harrisburg

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COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF MINES AND  
MINERAL INDUSTRIES  
HARRISBURG

H. B. CHAMBURY  
THE SECRETARY

April 15, 1968

The Honorable Raymond P. Shafer  
Governor  
Commonwealth of Pennsylvania  
Harrisburg, Pennsylvania

Dear Governor Shafer:

In compliance with the Act of April 14, 1903, I  
transmit herewith the Report of the Department of Mines and  
Mineral Industries for the year ending December 31, 1967,  
covering in detail the operations in the Anthracite Division  
of Pennsylvania.

Respectfully submitted,

*H. B. Chambury*  
H. B. Chambury

RAYMOND PHILIP SHAFER  
GOVERNOR, COMMONWEALTH OF PENNSYLVANIA

Pennsylvania's Governor Raymond Philip Shafer was born March 5, 1917, in New Castle, Pennsylvania, and raised in Meadville where he attended the public schools. At his high school commencement in 1934 he proved that a star basketball player could be class valedictorian.

His athletic-academic abilities were displayed on a greater scale at Allegheny College. A political science major, he made Phi Beta Kappa, won nine varsity letters (basketball, soccer and track), was class president each year and was the student body president in his senior year.

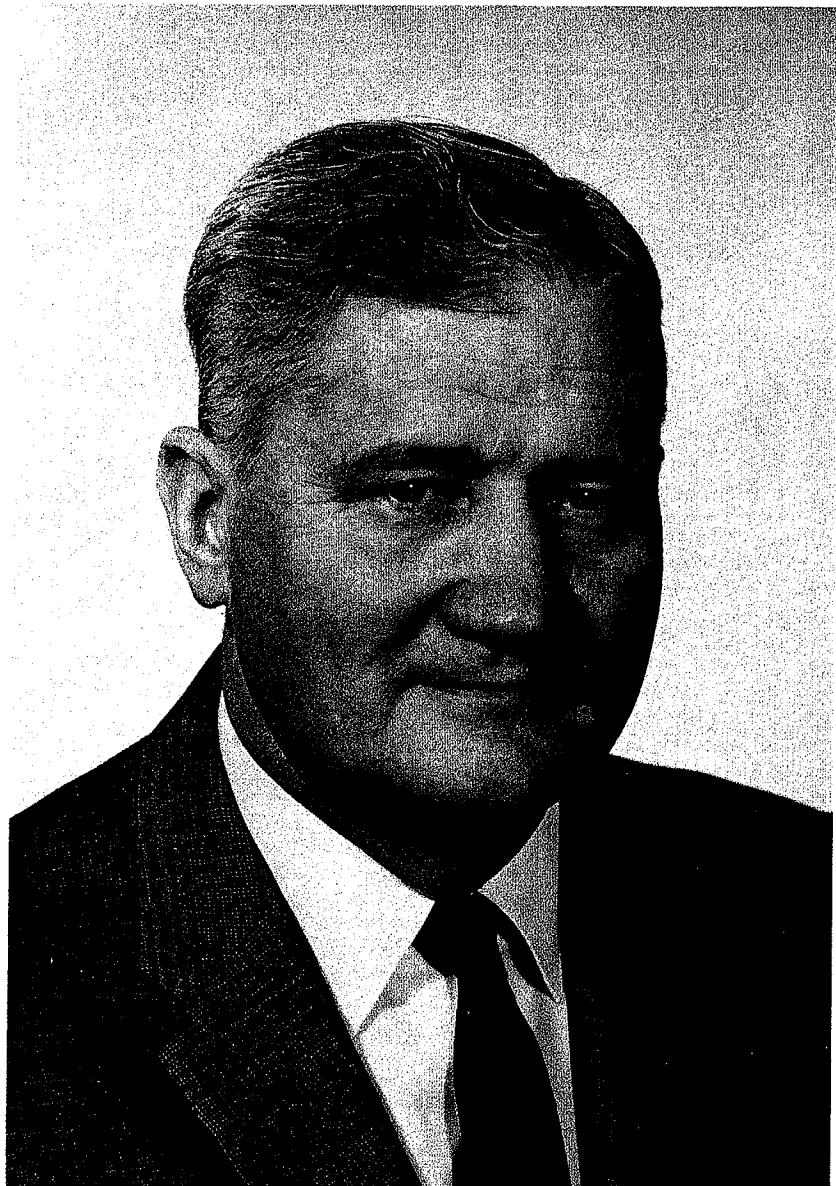
After graduation in 1938 he went to Yale Law School. Members of his law fraternity included future Governor Scranton, two future U. S. Supreme Court Justices (Stewart and White), a future U. S. Senator (Dominick, Colorado), future author (Walter S. Lord) and others who made their mark on the national scene. LIFE magazine in 1966 reprinted this extraordinary group's portrait taken in 1940. Shafer had then become Lieutenant Governor of Pennsylvania and was the Republican nominee for Governor.

After getting his law degree in June 1941, Shafer, the following month, married his college sweetheart, Jane Harris Davies of Pittsburgh. In August the couple moved to New York City where Shafer was associated with Secretary of War Stimson's law firm (Winthrop, Stimson, Putnam and Roberts). In 1942 he was commissioned an ensign in the Navy. Before returning to inactive duty in 1945, he had logged over 80 combat missions in PT Boats, brought General MacArthur back to Corregidor in fulfillment of the famous promise, and had added the Bronze Star and the Purple Heart to his campaign medals. The official U. S. Navy Volume on PT-Boat Operations carries a photograph of Shafer, aboard a rubber raft, evacuating paratroopers pinned down by sniper fire on a small Pacific Island.

After the war, Shafer returned to Meadville to practice law. He was affiliated with the office of the late former Judge Mook, and subsequently became a partner in the firm of Thomas, Shafer, Dornhaffer and Swick. He taught business law at Allegheny College while practicing. In 1947 he was elected district attorney of Crawford County on both tickets, a feat he repeated in 1951. In 1958 he was elected to the Pennsylvania Senate, representing Mercer and Crawford Counties. In 1962 he was elected Lieutenant Governor of Pennsylvania, and two years later was the acting Chairman of the Pennsylvania delegation to the 1964 Republican National Convention in San Francisco. In November 1966 he was elected Governor, marking the first time in Pennsylvania's political history that a lieutenant governor successfully ran for the highest office.

An ardent sportsman, Governor Shafer is a top-flight golfer. His civic activities are legion. He holds memberships in many community and fraternal organizations, together with his professional associations as a member of the Bar.

Governor and Mrs. Shafer have three children: Diane, Raymond, Jr., and Jane as well as a grandson, "Flip."



DR. H. B. CHARMBURY  
PENNSYLVANIA SECRETARY OF MINES  
AND MINERAL INDUSTRIES

Pennsylvania's Secretary of Mines and Mineral Industries, Dr. H. Beecher Charmbury, was born September 21, 1914 in Hanover, Pennsylvania, and educated in Hanover public schools.

Dr. Charmbury commands a wealth of professional education and experience in his post as Secretary of Mines and Mineral Industries.

He was first appointed to this position by former Governor William W. Scranton in January, 1963, and subsequently reappointed by present Governor Raymond P. Shafer in December, 1966.

He received his A. B. degree in chemistry, cum laude, from Gettysburg College in 1936, and his Master's degree in chemistry from Pennsylvania University the following year. He was awarded his Ph. D. degree in Fuel Technology from The Pennsylvania State University in 1942.

Prior to his appointment as Secretary of Mines and Mineral Industries, Dr. Charmbury has been associated with The Pennsylvania State University since 1937 and currently is on leave of absence from that school. He started out as a research assistant in the Department of Petroleum and Natural Gas, and from there went on to become Professor and Head of the Department of Mineral Preparation at Penn State in 1953.

He was one of the first people to be invited as a lecturer at the Third International Coal Preparation Congress in Liege, Belgium in 1958, and was also a lecturer at the First European Symposium on Coal Size Reduction in Frankfurt, Germany in 1962.

The firms to which he has been a consultant on problems related to coal, metallic and non-metallic minerals, as well as air pollution, reads like a blue chip list of American industry. A partial list includes the Molybdenum Corporation of America; Rochester and Pittsburgh Coal Company; Esso Research and Engineering Company; The Babcock and Wilcox Company; The American Tool and Supply Company; The Lampa Mining Company, Ltd.; Corn Products Company; "Rock Products" (Maclean-Hunter Publications); and Titan Metal Manufacturing Company. In addition he has also served as consultant to many municipalities on similar problems.

He has authored numerous articles on coal and other mineral technology for such publications as "Mechanization", "Utilization", "Rock Products", "Mineral Industries", "Brick and Clay Record", and "Mining Engineering". Many of his technical papers have been translated and reprinted abroad in German, French and Chinese publications.

As a renowned authority on coal, its preparation and usage, as well as other minerals, Dr. Charmbury has also presented technical papers before such conclaves as the American Mining Congress, the American Chemical Society, and the National Association of Industrial and Mechanical Engineers.

He is listed in *American Men of Science*, *Who's Who in American Education*, *Who's Who in Engineering*, *Who's Who in the East*, and *Leaders in American Science*.

As Secretary of Mines and Mineral Industries in Pennsylvania, Dr. Charmbury serves as chairman of the following boards and commissions: Bituminous Land Reclamation Board; Coal Research Board; State Mine Subsidence Insurance Fund; Oil and Gas Conservation Commission; Anthracite and Bituminous State Mine Inspectors' Examining Board; Oil and Gas Inspectors' Examining Board; and the Anthracite Mine Drainage Commission.

In addition, he is vice-chairman of the Anthracite Allocation Committee as well as a member of the State's Sanitary Water Board and the Air Pollution Commission. He also is a member of the Board of Trustees for the Pennsylvania State University.

He is a member of the Lutheran Church, A. F. & A. M., and a past exalted ruler and past district deputy grand exalted ruler of the B. P. O. Elks.

## 1967—YEAR OF SIGNIFICANT PROGRESS FOR THE COAL INDUSTRY AND RECLAMATION WORK

From almost the very first week of 1967, Pennsylvania's Department of Mines and Mineral Industries experienced one of the most dramatic years of achievement in the long history of this Department.

"Operation Scarlift", the Department's consummate, far-reaching mine area restoration program, was officially launched in March, culminating nearly three years of intensive research and field action demonstration projects on mine-related problems. The residue of problems were, of course, the result of a booming national growth era when coal was king of basic fuels.

Recognition of the scope of these coal-related problems reached a peak of public knowledgeability and concern about them with unanimous passage of the \$500 million Land and Water Conservation Bond Issue in May. This Fund, to be set up and implemented over a 10-year period beginning early in 1968, provided the Department with \$200 million to apply to "Scarlift", and thus to fight burning mine refuse banks, underground mine fires, mine drainage water pollution, surface subsidence and to restore much of the 200,000-plus acres of Pennsylvania countryside devastated by strip mining prior to 1963.

Governor Raymond P. Shafer's own genuine concern over these costly and dangerous mine scars was emphasized late in February when he accompanied Dr. Charmbury and others on a day-long tour of the Anthracite Region to view them firsthand. (See Photo Section.)

Following passage of the Bond Issue, a 13-member bipartisan joint legislative advisory committee was appointed to assist the Department with the planning and decision-making on projects to be undertaken with Bond Issue funds. Members of this committee were appointed by Rep. Kenneth B. Lee, Speaker of the House, and Robert D. Fleming, President Pro-Tempore of the Senate, on the basis of their genuine concern in conservation, and conservation programs affecting the Commonwealth.

We currently have good mining-conservation laws that prohibit active operations from scarring our lands and waters, but in the past year alone, more Pennsylvanians than ever before came to realize the critical necessity for action on those problems created through coal mining before these new laws went into effect in 1963.

A technical hallmark was reached by the Department midway in the year when work was completed on the charting of hundreds upon hundreds of sources of mine drainage pollution, both from abandoned as well as active mines in the anthracite and bituminous regions.

In addition, the Department also charted and mapped the locations of 200 burning refuse banks in the coal regions, as well as the locations of several hundred more non-burning banks. These two important charts on possible pollution sources and burning banks have already proven invaluable in the background work behind "Scarlift" itself.

Also, the charting of abandoned strip mine pits in anthracite area,

and there are several hundred of them, has given the Department a real factual base from which to vitalize its reclamation work in this region of the State.

There is a new look to Pennsylvania's coal mining industry, and it's a bright one, too.

Continually advancing coal mine technology has brought about a great portion of this new look. As a result, Pennsylvania's deep coal mines are more productive than ever and the men who operate the modern underground mining machinery of today are better equipped and better protected to do their jobs. Even the immediate countryside around these new mines has a fresh, new look as opposed to the bleak panorama of yesteryear.

Early in 1967, the State's first mine-mouth electric generating plant went into operation in Indiana County, heralding a new "coal-by-wire" concept that will eventually make central Pennsylvania the electric generating capital of the Northeast. Two more plants in this complex are to be finished during 1968, while still more such mine mouth complexes are being planned in the same general area.

Pennsylvania bituminous coal industry, riding the crest of its biggest boom since the late Forties, marked its sixth straight production increase in 1967.

Operating under a reclamation and conservation act recognized as one of the "toughest in the Nation", Pennsylvania's open pit mining industry is restoring the mined-land to a useful purpose. In a cooperative spirit of understanding of the objectives desired by the Department in its administration of the strip mine law, the protection of the land and water resources of the Commonwealth, over ten thousand acres of mined-land is restored annually, and, after restoration, is planted in trees, shrubs or grasses.

The coal industry's new hand-in-glove approach to conservation and production has created an entirely new concept and public imagery of Pennsylvania's coal mining scene. It is healthy. It is also a marvelous union that should benefit Pennsylvania's peoples most of all.

Coupled to our Department's work on curing the scars remaining from past mining, this new harmonious conservation-production attitude and approach to coal mining in our State portends an even more brilliant future for coal, and is actually recreating a most timely new employment market as well.

There are more challenging horizons available to young people through coal mining and marketing than was ever the case in the past history of this major fuel in Pennsylvania.

### RESEARCH AND DEVELOPMENT

As far back as 1939, coal operators and economists with foresight saw on the horizon obstacles that would have to be overcome and realized that improvements would have to be made. Recognizing research as a means of improving and stabilizing the industry, they urged

legislative action. The General Assembly made a small grant to the Pennsylvania State University with the provision that every State research dollar be matched with one from the industry. This initial grant laid the foundation for growth in coal research.

In 1955 the General Assembly, acting on recommendations of the Panel of Technical Advisors of the Joint State Government Commission, created the Coal Research Board. In 1956 it passed Act 651, designating the Board to carry on research on the economics, the technology, and the marketing of anthracite and bituminous coal and their by-products for the purpose of developing new uses and increasing markets for such coal. The sum of \$500,000 was appropriated for use by the Board. The law requires that the Board be composed of nine members, namely: the Secretary of Mines and Mineral Industries, who is designated as Chairman; two anthracite operators; two bituminous coal operators; one representative of the labor collective bargaining agency of the anthracite coal industry; one representative of the steel industry, one representative of the electric utility industry, and one representative of the labor collective bargaining agency of the bituminous coal industry. All members except the Secretary of Mines and Mineral Industries are appointed by the Governor, each for a term of three years.

In 1963, the scope of the Coal Research Board was increased to include problems confronting the industry such as water and air pollution, mine fires, mine safety, and the development of coal mineral complexes.

Through July 1, 1968, a total of \$3,375,003 has been appropriated by the Legislature to the Coal Research Board.

Projects conducted in past years were selected by the Board from proposals submitted by qualified research agencies. Project proposals demonstrated a need for conducting basic or fundamental research concerning the various factors related to coal; but they presented few ideas for research in applied uses for coal. The result was that during its first years, the Board assigned the bulk of its available funds to projects concerned with basic or fundamental research.

#### ACTIVE PROJECTS FOR COAL RESEARCH BOARD

At the present time active basic and applied research projects are being carried out for the Coal Research Board by colleges, industrial corporations and coal industry institutions. The subject matter under study is in the fields of export market development, domestic market development, water pollution abatement, strip mine restoration, optimization of mine production, reduction of ash and sulfur content in coal, coal combustion characteristics, economics of the coal industry, use of coal refuse products, reduction of mine disaster causes, removal of coal float dust, and extinguishment of coal refuse bank fires.

There are now under way, several pilot plant projects through which technical information developed under previous laboratory projects can be applied and field tested. The first of these projects was a mobile acid mine drainage plant, designed and built in 1964, which has been used in studying mine drainage at fifteen field locations. This

plant has sufficient flexibility that new laboratory developments can be tested in the field. As economic and technical data are derived from the operations of this pilot plant, many unknowns will be resolved.

The Board carried on several projects, begun during 1967 or being continued from previous years, which are related to coal market development. They are as follows: (1) The economic and technological study of domestic markets for Pennsylvania anthracite; (2) The economic importance of the coal industry to Pennsylvania; (3) An economic and technological study of European markets for Pennsylvania anthracite.

A project was initiated during 1967 to determine the feasibility of expanding the market for anthracite as a low sulfur, low volatile material fuel. In view of current air pollution abatement regulations the utilization of anthracite appears to have good prospects as a low sulfur fuel in certain urban markets.

A project entitled "Operation Anthracite Refuse" was proposed to the U. S. Department of the Interior and has received approval for joint sponsorship under the Solid Waste Disposal program. It is anticipated that technically sound and economically feasible products or uses may be found for the accumulated refuse piles in the northeastern part of the state.

Another project entitled "Operation Reddog", also co-sponsored by an agency of the U. S. Department of the Interior, has shown promise for a possible ceramic brick prepared from calcined pulverized anthracite refuse. Representatives of the Pennsylvania brick industry are actively following the progress of this work and anticipate small scale production tests during the summer of 1968.

Another well received activity sponsored by the Board, by which it is hoped to increase mine safety, was that of several five day "short courses" at the Pennsylvania State University on the study of Rock Mechanics as a basis for strata control. Mine inspectors and representatives of industry from both anthracite and bituminous coal fields attended these courses and learned of the latest technology. Greater "know-how" by these newly trained men should be reflected in improved roof control, improved safety and over-all better protection against cave-ins.

The projects being carried on by the Board to improve mine safety are: (1) an investigation of effective measures to combat mine disasters; and (2) an investigation of methods for control of float dust in coal mines.

Projects now being carried on for the purpose of reducing mining costs are in the fields of (1) strip mining and land restoration; (2) optimization of mine production systems for low cost mining.

Projects to treat refuse banks and refuse material are as follows: (1) the characteristics and preparation of anthracite breaker refuse and the suitability of derived products for industrial use.

In addition to the mine drainage pilot plant previously mentioned, twelve projects have been funded by the Coal Research Board in seeking solutions to the acid mine drainage problem.

## MINE DRAINAGE RESEARCH PROJECTS

Acid mine drainage research is being carried on through the following projects:

- (1) An investigation of the technical aspects in the control and disposal of mine water to minimize stream pollution by deep well disposal.
- (2) The control of mine stream pollution by removal of the impurities from drainage streams by coal interaction.
- (3) A bibliography on acid mine drainage, (supplements issued 1964, 1965, 1966 and 1967).
- (4) An investigation on the extraction of iron in acid mine drainage water by reaction with ozone.
- (5) The elimination of pollution in mine drainage by biological factors.
- (6) The design, fabrication, and operation of a mobile demonstration plant for the treatment of acid mine drainage.
- (7) A feasibility study of the application of a flash distillation process for treatment of acid mine drainage water.
- (8) Removal of acid from mine drainage by ion retardation.
- (9) The effect of acid mine drainage from strip mines on the ground reservoir under various hydrogeologic environments within the Mercer Quadrangle, Pennsylvania, and the mutation of water as it moves through the ground water reservoir.
- (10) Control of water quality in coal preparation plant effluent.
- (11) Pumping acid mine water from the West Branch of the Susquehanna River into an abandoned mine to improve alkalinity content.
- (12) Development of a mine drainage treatment test center at Hollywood-Tyler, Pennsylvania.

## MINE DRAINAGE ABATEMENT PROJECTS

As a logical follow-up to the research program of the department, projects were initiated to put into practice the information and technology developed through the research program. These activities are typified by the departments' efforts on Toms Run, Scrubgrass Creek and Muddy Creek.

Toms Run watershed lies in Clarion County and is the prime water source for the Cooks Forest State Park. The department is involved in sealing well discharges. It is also restoring abandoned strip mines near the headwaters of the run as well as lime treating and revegetating a restored area. Work has been started and aimed at abating pollution from coal refuse containing service roads in the watershed through lime grouting and improved drainage. Co-operative work has also been undertaken on these projects with other state agencies.

A milestone in the department's "Scarlift" mine area restoration program was the successful mine water treatment plant located on Little Scrubgrass Creek in Venango County. This plant has been satisfactorily treating the water in Little Scrubgrass Creek since April 1967 and evidence indicates that aquatic life is being reestablished in

the stream. Remedial work has been initiated on the strip mines upstream from the treatment facility.

An engineering survey to pinpoint sources of the pollution in the Muddy Creek watershed was initiated during 1967. Concurrently certain facets of work have been initiated to abate the pollution in this watershed as fast as problem areas were identified. Such projects include strip mine restoration, refuse pile disposal in nearby stripping pits, revegetation of reclaimed lands and mine sealing. Activities accomplished during 1967 should vastly improve the environment, both land and water, in Lake Arthur and Moraine State Park in the Muddy Creek watershed.

## REPORTS AND FUTURE PLANS

Up to the present time, 66 technical reports have been prepared concerning many of the individual projects that have been conducted by the Coal Research Board. A great quantity of information not previously known has been recorded. These records have been distributed to the coal industry, agencies, libraries, and scientifically-minded individuals. It is believed that the availability and the use of this material have been of direct assistance in making possible some of the recent developments in the use of coal. Reports available are as follows:

SR-1	The Crushing of Anthracite	May 31, 1967
SR-2	Petrographic Composition and Sulfur Content of a Column of Pittsburgh Seam Coal	August 1, 1958
SR-3	The Thermal Decepritation of Anthracite	September 15, 1958
SR-4	The Crushing of Anthracite with a Jaw Crusher	November 1, 1958
SR-5	Reactions of a Bituminous Coal with Sulfuric Acid	February 1, 1959
SR-6	Laboratory Studies on the Grindability of Anthracite and Other Coals	April 1, 1959
SR-7	Coal Characteristics and Their Relationship to Combustion Techniques	April 15, 1959
SR-8	The Crushing of Anthracite with an Impactor-Type Crusher	April 25, 1959
SR-9	The Ignitibility of Bituminous Coal (A resume of a Literature Survey)	May 4, 1959
SR-10	Effect of Gamma Radiation and Oxygen at Ambient Temperatures on the Subsequent Plasticity of Bituminous Coals	May 6, 1959



- SR-11 Properties and Reactions Exhibited by Anthracite Lithotypes Under Thermal Stress May 11, 1959
- SR-12 Removal of Mineral Matter from Anthracite by Chlorination at High Temperatures June 22, 1959
- SR-13 Removal Stability of a Coal Tar Pitch June 25, 1959
- SR-14 The Effect of Nuclear Reactor Irradiation During Low Temperature Carbonization of Bituminous Coals July 31, 1959
- SR-15 Effect of Anthracite and Gamma Radiation at Ambient Temperature on the Subsequent Plasticity of Bituminous Coals August 5, 1959
- SR-16 The Isothermal Kinetics of Volatile Matter Release from Anthracite August 25, 1959
- SR-17 The Combustion of Dust Clouds: A Survey of the Literature November 30, 1959
- SR-18 The Ignitibility of Bituminous Coal June 15, 1960
- SR-19 Changes in Coal Sulfur During Carbonization August 1, 1960
- SR-20 The Radiation Chemistry of Coal in Various Atmospheres September 12, 1960
- SR-21 Reaction of Bituminous Coal with Concentrated Sulfuric Acid October 1, 1960
- SR-22 The Nature and Occurrence of Ash Forming Minerals in Anthracite December 30, 1960
- SR-23 A Phenomenological Approach to the Batch Grinding of Coals January 20, 1961
- SR-24 The Unsteady State Diffusion of Bases from Anthracite at High Temperatures January 21, 1961
- SR-25 Some Advances in X-Ray Diffractometry and Their Application to the Study of Anthracites and Carbons February 24, 1961
- SR-26 The Filtration of Coal Solutions March 17, 1961
- SR-27 A Preliminary Investigation into the Application of Coal Petrography in the Blending of Anthracite and Bituminous Coals for the Production of Metallurgical Coke May 1, 1961

- SR-28 Preparation and Properties of Activated Carbons Prepared from Nitric Acid Treatment of Bituminous Coal August 15, 1961
- SR-29 The Reactions of Selected Bituminous Coals with Concentrated Sulfuric Acid August 31, 1961
- SR-30 Investigations on the Operation of the Circular Concentrator for Cleaning Fine Coal February 26, 1962
- SR-31 Mineral Matter Removal from Anthracite by High Temperature Chlorination March 26, 1962
- SR-32 The Effect of Crusher Type on the Liberation of Sulfur in Bituminous Coal April 29, 1962
- SR-33 Investigation of the Circular Concentrator—Flotation Circle System for Cleaning Fine Coal September 10, 1962
- SR-34 Reactions of Coal with Atomic Species September 24, 1962
- SR-35 The Preparation Characteristics of the Bituminous Coal Reserves in Pennsylvania with Special Emphasis on Sulfur Reduction October 31, 1962
- SR-36 A Study of the Burning Velocity of Laminar Coal Dust Flames November 5, 1962
- SR-37 Molecular Sieve Material From Anthracite November 16, 1962
- SR-38 Studies of Anthracite Coals at High Pressures and Temperatures April 29, 1963
- SR-39 Coal Flotation of Low-Grade Pennsylvania Anthracite Silts May 13, 1963
- SR-40 Changes in the Physical Properties of Anthracite Upon Heat Treatment July 10, 1963
- SR-41 Some Aspects of the Chemistry of Sulfur in Relation to Its Presence in Coal August 20, 1963
- SR-42 The Unsteady State Diffusion of Gases from Coals February 15, 1964
- SR-43 The Effect of Concentration and Particle Size on the Burning Velocity of Laminar Coal Dust Flames March 1, 1964
- SR-44 The Electrokinetic Behavior of Anthracite Coals and Lithotypes May 25, 1964

SR-45	An Investigation of the Cyclone for Fine Coal Cleaning	May 30, 1964
SR-46	The Utilization of Coal Refuse for the Manufacture of Lightweight Aggregate	September 1, 1964
SR-47	A Simulation Model on the Optimal Design of Belt Conveyor Systems	March 5, 1965
SR-48	Beneficiation of Fly Ash	April 12, 1965
SR-49	Application of Linear Programming Methods of Mine Planning and Scheduling	July 10, 1965
SR-50	Petrographic Composition and Sulfur Content of Selected Pennsylvania Bituminous Coal Seams	August 2, 1965
SR-51	Preliminary Investigations of Fog Disposal Methods Applicable to Greater Pittsburgh Airport	August 20, 1965
SR-52	Subsurface Disposal of Acid Mine Water by Injection Wells	August 10, 1965
SR-53	Roof Bolt Load and Differential Sag Measurements	September 3, 1965
SR-54	A Study of the Reactions Between Coal and Coal Mine Drainage	November 22, 1965
SR-55	Methods Employed for Underground Stowing (A Resume of a Literature Survey)	February 28, 1966
SR-56	Computer Simulation of Materials Handling in Open Pit Mining	June 6, 1966
SR-57	The Evaluation of Anthracite Refuse as a Highway Construction Material	July 30, 1966
SR-58	An Investigation of the Cleaning of Bituminous Coal Refuse Fines by an Experimental Hydrocyclone	August 15, 1966
SR-59	Chlorination and Activation of Pennsylvania Anthracites	October 24, 1966
SR-60	Development and Testing of an Injection Well for the Subsurface Disposal of Acid Mine Water	February 1, 1967
SR-61	Investigations of the Cyclone Washing of Fine Coal in Water	December 12, 1966

SR-62	Linear Programming Short Course	May 1, 1967
SR-63	Planning Belt Conveyor Networks Using Computer Simulation	May 15, 1967
SR-64	The Economic Importance of the Coal Industry to Pennsylvania	August 1, 1967
SR-65	An Evaluation of Factors Influencing Acid Mine Drainage Production from Various Strata of the Allegheny Group and the Ground Water Interactions in Selected Areas of Western Pennsylvania	August 15, 1967
SR-66	Potential Injection Well Strata for Acid Mine Water Disposal in Pennsylvania	October 25, 1967

In order to plan for future research, the Board has solicited suggestions for research areas and specific problems from the coal industry and labor, and it has compiled a list of areas in which Board members think that research may prove useful. Compilation of problem areas was prepared, then distributed to research agencies of known ability, with facilities for undertaking coal research. Proposals were solicited for projects aimed at correcting or gaining information on the problem or problems presented. The Board continuously evaluates these proposals in the light of the long and short-term needs of the coal industry, and grants contracts as funds permit.

The Pennsylvania coal industry today is faced with the task of doing in a short time research that ought to have been undertaken many years ago. It is reasonable to believe that if an adequate research effort had been made in the past many of today's problems would not exist. A coal research program, broad in scope and extending into the future, should contribute greatly toward opening the doors to vast and valuable mineral reserves remaining in Pennsylvania.

### MINE REFUSE BANK FIRES

Under a program first authorized by Act 3A of the General Assembly, approved March 3, 1964, supplemented by later acts, the Department was authorized to use money specifically for the purpose of extinguishing, curtailing, and preventing the spread of mine refuse bank fires. The Department made arrangements with the Federal Department of Health, Education and Welfare to undertake nine experimental projects with that Department.

Nine (9) research projects have been authorized to demonstrate the feasibility and costs of refuse bank extinguishment. These projects are as follows:

Huber Refuse Bank, removal of material by draglines followed by water quenching and layering and compaction; Carrolltown Refuse

Bank, rigid foam sealing and injections with an inert gas; Heshbon Refuse Bank, grouting and covering of a bank with vermiculite, limestone dust and chemicals; Heshbon Refuse Bank, grouting and covering a refuse bank with mine drainage sludge (Yellowboy); Gipsy Refuse Bank, an application of chemical mixtures and detergents with water for bank extinguishment; White Station Refuse Bank, cooling by water sprays followed by admixing of inert-non-combustible material with coal refuse followed by compaction; Tuscarora Refuse Bank, side sealing of the bank with clay followed by application of cement waste dust to the crown; Baker Refuse Bank, Scranton, fracturing fused refuse material with explosives followed by saturation with water; and Marvine Refuse Bank, hydraulic quenching and removal using high pressure water nozzles followed by layering and compaction.

All of the above projects will result in the development of improved extinguishment techniques and will produce engineering and fiscal data indicating the "least cost" extinguishment methods.

### ABANDONED COAL MINE SERVICES

The abandoned coal mine services are basically for the purpose of correcting conditions caused by early mining operations that are detrimental to public welfare. During 1965 the authority to carry out these services was enlarged and it now reads as follows: "To seal or close or backfill abandoned deep or strip coal mines, to fill voids in abandoned coal mines, to drill bore holes, dig ditches or construct flumes which would relieve flooding or hazardous conditions caused by mine water, and to extinguish fires in abandoned coal mines and in culm banks, in those instances where such work is in the interest of the public welfare."

During the last calendar year, the Department conducted 61 projects under this program, using State funds only. Of these projects, 43 were conducted in twelve counties in the bituminous coal area of the Commonwealth, and 18 projects in five counties in the anthracite area.

During 1967, special emphasis was again placed on sealing abandoned deep mine openings and extinguishment of fires in abandoned coal mines insofar as the services provided under this program was concerned.

### ANTHRACITE DIVISION

Following is record of productive effort compiled by the Anthracite Division, with headquarters at Pottsville, during the year of 1967.

There were one thousand four hundred and eighty five separate "Deep Mine" inspections. During which seventy three (73) mines or sections of mines were stopped for safety reasons. Nine hundred and seventy four (974) separate inspections were made of strip mine operations, during which time five (5) were stopped for safety and other reasons. Our inspectors made six hundred and thirty seven (637) inspections of coal preparation plants and three hundred and twelve (312) culm bank recovery inspections, during which numerous correc-

tive actions were instituted. Two new electrical inspectors were added to the force during the year, who, together with one inspector previously employed, made a total of three hundred and three (303) complete inspections of strip and deep mine operations, issuing many corrective orders during the course of these inspections. Follow up inspections were made to insure complete compliance of these orders.

As a result of the above, we had a total of three thousand seven hundred and eleven complete inspections during the year, made by twenty-three (23) inspectors, making an average of one hundred and sixty two (162) complete inspections per inspector in the twelve month period.

An extensive study of water outfalls and stream pollution was made by the inspectors in addition to the above mentioned accomplishments. A survey of all abandoned strip mine pits in the entire Anthracite Region was undertaken and completed during this period. A study of mine subsidence, mine fire control, bank fire control and strip mine restoration, covering a four year plan was completed at the request of Governor Shafer.

In the field of "Employee Safety" our men trained five hundred and forty (540) men in ninety three (93) mines in the detection of explosive gases and the care of flame safety lamps. We conducted fifty six (56) classes in rudimentary "First Aid" in which eight hundred and twenty four (824) men received the required training. During the same period three (3) classes were conducted in which twenty four men received the full scale "Mine Rescue" course. One hundred and forty employees attended the defensive driver training course and were certified at the completion of same.

Our "Safety Record" for the year shows a total of *eight (8) Fatal Accidents*, as compared to *five (5) Fatal Accidents* for the previous year.

In addition, our inspection force processed eighty nine (89) strip mine completion reports, one hundred and eight (108) mine drainage permits, served on eight (8) commissions, nine (9) other investigations, one hundred and ninety seven (197) complaints from the general public.

Other achievements include discovering of eighteen (18) separate culm bank and refuse fires by the inspection force and the extinguishment of same under their leadership, without any undue incident and at no cost to the Commonwealth. Seventeen (17) chapters and one (1) council of the Holmes Safety Council have been organized in the area with the aid of Department Personnel. Making a total of fifty nine (59) chapters and two (2) councils who hold monthly meetings and discuss all phases of safety.

Regulation of strip mine blasting by our personnel have monitored four thousand four hundred and six (4,406) blasts having a total of twenty thousand and thirty three (20,033) blast holes. This is a continuing function in which we actively regulate blasting in Carbondale, Eddy Creek, Plains Township, Wilkes-Barre, Lansford, Nesquehoning, Saint Clair and Wadesville.

Our engineers have serviced two hundred and seven (207) mine subsidence insurance applications and five (5) applications to mine within a "Safety Zone".

One hundred and eleven (111) individual dust studies were made by our dust men in the same period.

A total of eleven hundred and sixty (1,160) inspections of waste disposal areas were conducted by our inspectors.

In the field of restoration, state-owned equipment has replaced seven hundred eighty five thousand six hundred (785,600) cubic yards of earth into long abandoned strip mines on public land, restoring sixty (60) acres to use. Outstanding examples are the state game lands at Gold Mine in Lebanon County, which has an additional value in restoring the quality of water to the Lebanon Watershed and the Mahanoy City Project on lands owned by the school district.

Additional work in the field of strip mine restoration using state-owned equipment was the backfilling of a strip mine pit in the Olyphant Area of Lackawanna County where in the Bond Posted by the coal company was declared forfeited by the Department of Mines and Mineral Industries. This involved the handling of three hundred seventy two thousand, eight hundred (372,800) Cubic Yards of fill material and restored ten (10) acres to use.

Our forestry effort included the planting of seven hundred ninety seven thousand, seven hundred and twelve (797,712) seedlings on restored strip mine land.

We used state-owned equipment to totally eliminate a refuse bank fire at Heidelberg in Pittston Township, Luzerne County, which could have developed into a major problem, if allowed to continue.

### ANTHRACITE STRIP MINE RESTORATION

The following statistical information relates to performances of administration and enforcement under the Anthracite Strip Mining and Conservation Act of 1963:

	1967	Accumulative 1964-1967, Incl.
Strip Mine Operators Licenses Issued	58	322
Strip Mine Permits Issued .....	226	1,106
Acres of Land Permitted .....	1,069.91	5,394.09
New Bond Filed by Operators .....	\$435,135.00	\$2,869,492.00
Completion Reports Filed .....	81	307
Acres of Land Affected .....	539.59	1,661.40
Acres of Land Restored .....	572.84	*1,601.72
Planting Fees Paid by Operators .....	\$18,154.00	\$75,143.00
Bond Released to Operators .....	\$433,137.00	\$1,302,477.00

\* The balance, or 50.68 acres, are being restored by deposition of breaker wastes and by domestic and commercial solid wastes under the Sanitary Land Fill Method.

### PROJECTS—1967

#### GIRARDVILLE DRAINAGE DITCH, PROJECT NO. AS-36

This project was initiated to release flooding situations at the East end of Girardville Borough and adjoining Butler Township. The project was completed by Brook Contracting Company at a cost of \$71,704.80 and final inspection was held on April 27, 1967.

#### GLEN BURN CUT-OFF TRENCH, PROJECT NO. AS-42 (See Photo Section)

A cut-off trench was excavated through a refuse bank for the purpose of preventing the fire from spreading to an adjoining major non-burning refuse bank. The project was completed by K. & H., Inc. at a cost of \$31,872.00 and final inspection was held on July 17, 1967. The completed work was in Coal Township, Northumberland County.

#### SWATARA WATERSHED, PROJECT NO. MD-1, Phase B

This project consisted of reconditioning and grading existing Gebhard Run for the purpose of conveying surface water past mine openings. The project was started June 20, 1967 by George Racho, Contractor and completed August 14, 1967 at a cost of \$6,604.20. The completed work was in Reilly Township, Schuylkill County.

#### SWATARA WATERSHED, PROJECT NO. MD-1, Phase C

All engineering work, maps, bid documents for the installation of 72" flume, construction of earth ditches, reconditioning existing stream beds on Coal Run, were forwarded to Harrisburg for approval on June 1, 1967. At present we are awaiting a revised release after the County Commissioners acquire title to property, involved in the project. The engineering estimate to complete project is \$38,000.00. The project is located in Frailey Township, Schuylkill County.

#### SWATARA WATERSHED, PROJECT NO. MD-1, Phase D

All engineering work is completed for the installation of 72" flume, construction of earth ditches, reconditioning existing stream beds to conduct the flow of Bailey Run and Gebhard Run past existing strip mine pits and mine openings. All work necessary to submit to this project is held up pending receipt of releases. The project is located in Frailey and Reilly Townships, Schuylkill County.

#### PARDEESVILLE MINE & BANK FIRE, PROJECT NO. A-16

The project was initiated to control a mine and bank fire that required the construction of a flume, earth embankments and ponding areas for the control of water necessary to flood surface areas of a mine and bank fire. A Contract for \$114,585.00 was awarded Drew Development Co. for the required work. The project was started August 21, 1966 and is located East of the Village of Pardeesville, Hazle Township, Luzerne County.

#### MAHANAY CITY SUBSIDENCE, PROJECT NO. 14

A project to fill accessible mine voids in the Buck Mountain Vein and blind flushing in the Skidmore Vein with suitable material for the purpose of supporting coal pillars and overlying rock strata to mini-

mize further subsidence in a portion of the built up section of Mahanoy City. A Contract for \$14,340.00 was awarded to Felix DiCasimirro and Norman Schock to perform the required work which is located in Mahanoy City Borough and adjoining Mahanoy Township, Schuylkill County.

**GLEN BURN CUT-OFF TRENCH, PROJECT NO. A-17**

Surveys, maps and contract documents were completed as of December 29, 1967. The purpose of the project is to prevent fire in a burning bank from igniting a large non-burning bank by extending a cut-off trench that was excavated by the coal company in 1953. Bids for the project will be opened Thursday, March 21, 1968 and the engineering estimate is \$89,960.00. The project is located in Coal Township and the refuse bank is in close proximity to the business and residential areas of the City of Shamokin, Northumberland County.

**BUTTONWOOD DRAINAGE DITCH, PROJECT NO. MD-12**

The purpose of the project is to control the outfall from several mines and prevent uncontrolled pollution of the Susquehanna River. To accomplish the purpose of this project, a drainage ditch will be excavated and the construction of facilities to regulate the flow from the outfall. A Contract for \$174,970.00 was awarded to Rodger E. Gerhart, Inc., who was the lowest responsible bidder. The project is located in Hanover Township, Luzerne County.

**MINE WATER CONTROL PROJECT NO. 40**

This project was initiated by a coal company for the purpose of preventing surface water from entering the mines and to enable the coal company to expand deep mining in this area. To accomplish this purpose it is proposed to backfill strip mine pits to prevent surface drainage from entering the mines. All maps, cross sections, contract, documents and agreements have been prepared and we are now waiting for the posting of the required bonds. The project is located on the Southern slope of Bear Mountain in Hegins Township, Schuylkill County. The estimated cost is approximately \$100,000.00.

**MINE WATER CONTROL PROJECT NO. 45**

This project is the loan of a vertical deep well pump to the Reading Anthracite Company for installation on Wadesville Shaft.

All legal forms, insurance and other papers required for the loan of a deep well pump and accessories were prepared and the necessary arrangements with the Federal Authorities were made. Work was started November 16, 1967 and continued until the end of December, 1967 when work was temporarily stopped due to electrical equipment. The project is located in New Castle Township, Schuylkill County.

**MOSS GLEN WATERSHED**

The purpose of this project is to restore the water table in the Silver Creek-Moss Glen Watershed by sealing strip mine pits and eliminating acid mine drainage from this area. Field surveys have been completed and the preparation of maps and cross sections is approximately 90% complete. The project is located in Blythe Township, Schuylkill County

and the project will be conducted under the State-Federal Mine Drainage Program.

**APPALACHIAN SUBSIDENCE PROJECT NO. 3**

The purpose of the project is to seal and fill mine voids by blind flushing any backfilling surface openings, to lend support and stability to an area underlying 3rd and Lehigh Streets in Coaldale, Schuylkill County. To accomplish this purpose a drilling program was prepared for flushing the required areas. Maps, plans and required documents were prepared and a Contract for \$249,838.00 was awarded to Gene Fierro T/A Gene Fierro Contracting Co. who started work on October 23, 1967.

**HAZLETON MINE FIRE CONTROL PROJECT**

The purpose of this project is to extinguish or control a mine fire within the boundaries of the City of Hazleton, Luzerne County. It is proposed to excavate the entire fire area and haul and spread in a nearby area. Plans, cross sections, location maps were forwarded to Harrisburg for submission to the Appalachian Regional Commission under date of March 28, 1967. The engineering estimates for completed excavation is \$308,500.00.

**MT. CARMEL MINE FIRE CONTROL PROJECT**

This project requires the cut-off trench to confine an existing mine fire from traveling under the built-up section of Mt. Carmel Borough, Northumberland County. The cut-off trench will require the excavation of approximately 8,000,000 Cubic Yards of overburden at an estimated cost of \$5,830,000.00 which includes the recovery of coal from the vein. The project was forwarded to Harrisburg for submission to the Appalachian Regional Commission under date of April 7, 1967. At present the project requires a sponsor and action is presently delayed due to a contested election.

**DELANO SURFACE RESTORATION**

For the reclamation and rehabilitation of an existing strip mine area by backfilling existing strip mine pits with adjacent spoil banks. The project was submitted to the Appalachian Regional Commission by the Harrisburg Office under date of July 27, 1967. It is estimated that \$111,000.00 will be required to complete the project which is located in Delano Township, Schuylkill County.

**PUBLIC HEALTH & SAFETY PROJECT NO. 10—Filling of Mine Shafts & Slopes**

This project which consists of backfilling hazardous slopes and shafts near roads and communities. Prepared plans and specifications for several locations and forwarded the required releases to five responsible parties. To December 31, 1967, only one (1) release was returned and we are presently awaiting another release from the Game Commission.

**MINE WATER CONTROL PROJECT NO. 42**

This project required the conversion of electrical equipment from 25 to 60 cycle operation. The original equipment was installed on Greenwood Shaft No. 10 under Mine Drainage Project No. 5. All the

required documents, codicils and related material were prepared for submission by Harrisburg to the Federal Bureau of Mines. The project was completed and the equipment placed in operation May 24, 1967.

Greenwood No. 10 Shaft is located in the Borough of Coaldale, Schuylkill County. The exchange of State-Federal equipment was installed at no expense to the State.

#### **MINE WATER CONTROL PROJECT NO. 43**

This project required the conversion of electrical equipment from 25 cycle to 60 cycle operation. The original equipment was installed under Mine Drainage Project No. 7 on Tamaqua No. 14 Shaft located in Rahn Township, East of Tamaqua Borough in Schuylkill County.

All required documents, agreements, insurance, resolutions, codicil and other related material prepared for submission to Dr. Hibbard, Jr. were forwarded to Harrisburg under date of February 4, 1966. The exchange of State-Federal equipment was installed by the coal company at no expense to the State. All the replaced equipment was returned and placed in storage at the Franklin Warehouse by December 20, 1967.

#### **ACCESS BOREHOLES, PROJECT NO. A-1 (NR-59)**

A project in the amount of \$16,246.70, to drill access boreholes and drive openings through the Barrier Pillar for exploration of the abandoned Dixon-Manville Mine Workings was started on September 29, 1966 and exploration of underground workings, prohibitive because of mine gases, was not undertaken as of December 31, 1967. The project is located in the City of Scranton, Lackawanna County.

#### **MARVINE BREAKER REFUSE BANK FIRE, PROJECT NO. A-7 (NR-87)**

A project to prevent, control and eliminate air pollution from an abandoned burning refuse bank was started on November 4, 1966 consisting of the drilling of a large diameter borehole, surface grading and the construction of ponding areas and was completed in January, 1967 at a cost of \$34,450.00. The project is located in the City of Scranton, Lackawanna County.

#### **EXAMINATION OF HOMES—EYNON STEET & CEDAR AVENUE, PROJECT NO. AD5 (NRD36)**

A project to examine homes for the presence of noxious gases started on December 19, 1962 and continued into December, 1967 at a cost of \$63,828.37. The project is located in the City of Scranton, Lackawanna County.

#### **EXAMINATION OF HOMES, PROJECT NO. AD6 (NRD44)**

A project for the examination of homes to determine the presence of noxious gases, started on December 6, 1963, was continuous to December 31, 1967, for a total expenditure of \$73,674.38. The project is located in Laurel Run Borough, Luzerne County.

#### **MINE WATER CONTROL PROJECT NO. 37**

##### **PART 2**

A project to install a deep well pump for mine water control, started on October 12, 1966, was completed and accepted in May, 1967, at a

total cost of \$140,800.00. The project is located in Newport Township, Luzerne County.

#### **APPALACHIA MINE FIRE CONTROL PROJECT NO. 8 PHASE I**

A contract to locate the perimeter of mine fire in the City of Scranton, Cedar Avenue Area, undertaken in November, 1966, was completed March 13, 1967, at a cost of \$122,839.68. The project is located adjacent to Cedar Avenue, in the City of Scranton, Lackawanna County.

##### **PHASE II**

A contract to excavate a cut-off trench was awarded No. 1 Contracting Company and work started April 3, 1967 and was completed on October 27, 1967 at a cost of \$844,300.00. The project is located adjacent to Cedar Avenue, in the City of Scranton, Lackawanna County.

#### **APPALACHIAN SUBSIDENCE PROJECT NO. 1, PINE BROOK SECTION**

A project in the amount of \$816,390.00 to fill mine voids, under the Appalachian Regional Development Program undertaken on August 15, 1966, continued until December 31, 1967 with 2% of the work remaining to be completed. The project is located in the City of Scranton, Lackawanna County.

#### **APPALACHIAN SUBSIDENCE PROJECT NO. 2, S.F.B. MORSE SCHOOL AREA**

A project in the amount of \$1,139,434.00 to fill mine voids under the Appalachian Regional Development Program, was undertaken on October 6, 1966 and continued to December 31, 1967 with 29% of the work remaining. The project is located in the City of Scranton, Lackawanna County.

#### **PROJECT NO. A-6 (NR-86)**

Filling mine voids in the Borough of Plymouth, Luzerne County was started on January 30, 1967 and completed March 31, 1967 at a cost of \$27,278.00.

#### **APPALACHIAN MINE FIRE CONTROL NO. 1**

##### **PHASE 1**

A project administered by the Federal Government for the drilling of exploratory boreholes to determine the extent of the mine fire was started in April, 1966 and completed in February, 1967 at a cost of \$248,001.68.

##### **PHASE 2, PART 1**

A project administered by the Federal Government to seal mine tunnels by flushing was awarded to Glen Nan Coal Company on April 6, 1967 and work started in May, 1967, was completed in the month of December, 1967 at a cost of \$91,407.30. The project is located in Laurel Run Borough, Luzerne County.

#### **HUBER BANK FIRE (See Photo Section)**

Work was started in June, 1967 and completed in September, 1967 in the amount of \$329,520.80 for the extinguishment of a portion of the burning bank located in Ashley Borough, Luzerne County.

**PROJECT NO. A-9 (NR90A)**

A project for the drilling of boreholes was initiated in June, 1967 for the purpose of determining feasibility of flushing and was completed in July, 1967 at a cost of \$3,833.00. The project is located in the Parsons Section of the City of Wilkes-Barre, Luzerne County.

**PROJECT NO. A-11 (NR91)**

A project to determine the feasibility of flushing mine voids by the drilling of test boreholes to examine underground conditions in the Borough of Plymouth, Luzerne County, was started in June, 1967 and completed on August 4, 1967 at a cost of \$6,764.39.

**BAKER BANK FIRE (See Photo Section)****PHASE I**

A project to drill horizontal boreholes and charge with explosives, blast, douse with water and level off the quenched material was started in August, 1967, completed in November, 1967 at a cost of \$50,000.00.

**PHASE II**

An identical project, started in November, 1967 was 95% complete on December 31, 1967 in the amount of \$50,000.00. The project is located in the City of Scranton, Lackawanna County.

**MARVINE BANK FIRE****PHASE I**

A project to install a deep well pump and water line to provide water for the extinguishment of the burning bank was started during the month of July, 1967, and was 85% complete as of December 31, 1967. This project included the removal of the quenched material from the fire area. The total cost of the project is \$192,500.00. The project is located in the City of Scranton, Lackawanna County.

**APPALACHIAN SUBSIDENCE PROJECT NO. 7—Heights West**

All engineering work completed including underground exploration, mapping, estimates, specifications and bid documents for the filling of mine voids and submitted to Harrisburg for approval. The project is located in the City of Wilkes-Barre, Luzerne County.

**APPALACHIAN SUBSIDENCE PROJECT NO. 6—Spring Street**

All engineering work completed including underground exploration, mapping, estimates, specifications and bid documents for the filling of mine voids and submitted to Harrisburg for approval. The project is located in the City of Wilkes-Barre, Luzerne County.

**APPALACHIAN SUBSIDENCE PROJECT NO. 4—Central City West**

All engineering work completed including underground exploration, mapping, estimates for a project approved by the Appalachian Commission for the filling of mine voids, located in the City of Scranton, Lackawanna County.

**TAYLOR BANK FIRE**

An experimental project for the prevention, control and extinguishment of the Taylor Bank Fire is under consideration by Dorr-Oliver,

Inc. The proposed project is located in the Borough of Taylor, Lackawanna County.

**MARY-D BANK FIRE****PHASE I**

An experimental project to extinguish the burning bank at Mary-D with the use of cement dust was conducted by the Department in cooperation with the U. S. Department of Health, Education and Welfare. The project was started in January, 1967 and completed in September, 1967 at a total cost of \$97,793.73.

**PHASE 2**

An experiment project to cover a portion of the Mary-D Bank with limestone dust is now under consideration. The project is located in the Village of Tuscarora, Schuylkill County.

**FAILS BANK FIRE (Rosini)**

An experimental project to extinguish the Fails Bank Fire by treating with waste lime-limestone scurry has been proposed to the U. S. Department of Health, Education and Welfare. The proposed project is located in Coal Township, Northumberland County.

The Department has secured releases necessary to perform the work.

**MINE FIRE CONTROL PROJECT NO. 34—Throop Borough**

A project for the extinguishment of a mine fire in the vicinity of Keystone Industrial Park has been approved by the Appalachian Commission based upon preliminary planning furnished by the Department of Mines. The proposed project is located in Lackawanna County.

**MINE FIRE CONTROL PROJECT NO. 25—Kehley Run**

A project for the extinguishment of a mine fire in Shenandoah Borough and Mahanoy Township, Schuylkill County and approved by the Appalachian Commission is in the hands of the U. S. Bureau of Mines awaiting further action.

**MINE FIRE CONTROL PROJECT NO. 34—Carbondale**

A project providing for a cut-off trench to isolate the mine fire in the Borough of Carbondale, Lackawanna County, in the hands of U. S. Bureau of Mines awaiting further action.

**MINE FIRE CONTROL PROJECT—Swoyersville**

A project to be administered by the Federal Government for the control and extinguishment of a mine fire located in the Borough of Swoyersville, Luzerne County, is in the hands of the U. S. Bureau of Mines awaiting further action.

**OIL AND GAS DIVISION**

Because the function of the Oil and Gas Division of the Department is limited by law to the implementation of regulatory practices, accomplishments then must be defined as activities. The statistical report which follows is an exact report for the year 1967.

The number of drilling permits issued in coal areas was 349; in

noncoal areas, 1, total, 350. Drilling permits issued in coal areas pertinent to the Oil and Gas Conservation Act, 24: In non-coal areas pertaining to the Oil and Gas Conservation Act, 1: Total 25. Drilling permits are not required for shallow wells in non-coal areas. However, file numbers are issued which are essentially the same as permits. 660 file numbers were issued for this type well during 1967. Therefore, the total anticipated drilling activity for the year was 1010. This does not mean that 1010 wells were drilled during the year; however, we did receive 943 completions reports indicating that this number of wells had completed drilling. Wells reported plugged and abandoned, 566. This does not represent the total number of well plugged since plugging reports are not required for shallow wells drilled in non-coal areas. Pillar permits issued, 172.

Total well activity, including drilling, plugging, and abandonments, and pillar permits were greater this year than any year since the organization of this Division. During 1967, activities were reported in 28 counties. There has been activity in 45 of Pennsylvania's 67 counties since the effective date of the Act, February 1, 1956. As to underground gas storage wells, Pennsylvania continues to lead the Nation in underground gas storage capacity which is 660 billion cubic feet. Of the 73 storage reservoirs within 10,000 linear feet of operating coal mines, 63 are active, 6 abandoned, 3 are being depleted and one (1) is in the planning stage. Of the 63 active storage reservoirs, 16 reservoirs are storing gas under or within 10,000 linear feet of operating coal mines. This means that these 16 reservoirs are under complete jurisdiction of the Division. Gas is being stored in 113 individual pools. By way of explaining this figure, some of the storage reservoirs are storing gas in more than one geological horizon.

Inspector activities were as follows:

1. During 1967 the number of inspections made was 4480. These included investigations of drilling, casing, and plugging operations as well as periodical inspections of storage areas.
2. The Inspectors held 1479 consultations during the year. These consultations were between the Department's Inspectors and management representatives of the oil and/or gas companies.
3. There were 428 special investigations including plugging operations for the following: Kinzua Dam, Moraine State Park, and various State Highway construction projects. These investigations were concerned not merely with inspection trips, but rather with preparation of plugging and/or casing specifications to an alternate method as permitted by the Act.
4. There were 32 individual complaints pertaining primarily to alleged water contamination. Most of these complaints were amicably settled even though in most instances the Department had no jurisdiction. Also investigated and reported in this category were all accidents of which officials of the Department had knowledge. Recommendations were made orally to the affected operators; and it is believed that, even without legislation, some progress relevant to safer operations was made.

5. There were 10 conferences held during the year, 8 of which were held by District Inspectors, in an attempt to settle disputes without aggravation. Two hearings were held as a result of these conferences. One of these hearings resulted in a prosecution since the well operator did not comply with the Order of the Division. Our policy during the year on distinguishing between formal and informal conferences has been changed. Conferences held by the District Inspectors are now considered formal conferences enabling this office to go directly to a Hearing if a mutual agreement is not made at the conference level.
6. Our Petroleum Engineer has been making investigations and plans throughout the year to locate and correlate pre-act wells which are or may be contaminating streams. This is being done in anticipation of legislation that will enable correcting this source of pollution.

The Department is continuing to furnish the Geological Survey with all well information. Since the passage of the Oil and Gas Conservation Act in 1961, the Geological Survey has not received information directly from the operators, except that which may be forwarded willingly. The Geological Survey, in the compilation of its statistical reports, is dependent upon the Department for statistical information.

Two Spacing Order Hearings were held during the year, both of which had to do with the Rager Mountain Pool in Cambria County. The members of the Commission believe that the Act has served its intended purpose, in that the drilling of wells coming within the purview of the Act, has been carried on in more orderly fashion and a wider acreage arrangement.

## APPALACHIA PROGRAM

The mining area restoration sector of the Appalachia Program derives from Section 205 of the Appalachian Regional Development Act of 1965, and Appalachian Regional Development Act Amendments of 1967.

In 1967, the Department prepared a total of 14 project requests and forwarded them to the State Secretary of Commerce, Pennsylvania's representative on the Appalachian Regional Commission, for presentation to that Commission. Along with the 36 project requests prepared and forwarded in 1965 and 1966, this brings the total of Pennsylvania's Appalachian Mining Area Restoration project requests to 50.

To the end of 1967, 38 of the projects have been approved by the Appalachian Commission. In 1967 contracts were awarded for 7 of the 38 approved projects bringing the total contracts awarded to 17. Five of the projects under contract were completed during the year 1967 bringing the total of completed projects to 7. Nine were in process of construction at the end of the year. Necessary preparation of specifications and contracts for other approved projects are going forward currently.

The Appalachian Regional Commission stresses data on economic and social justification of projects. The broad aspects of social and economic justification are prepared from information furnished by the

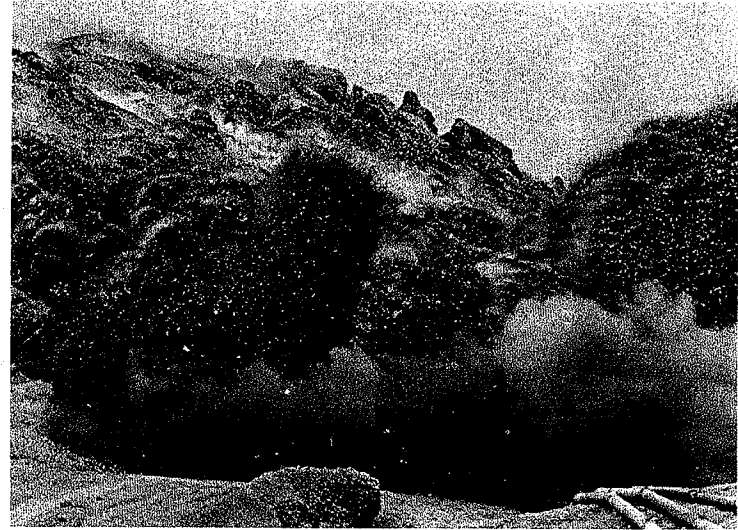


State Planning Board. Local aspects and descriptive information relating to individual projects are developed by the Department. In 1967 Pennsylvania continued its role of pioneer in the field of mining area restoration projects. A notable advance was the development in the Department of simplified forms for project contracts and specifications, which will be of benefit in future Appalachia projects administered by the Department. These simplified forms will reduce paper work and facilitate the activation of future projects.

At the close of 1967, the Department had 14 additional projects actively in preparation for transmittal to the Appalachian Commission, together with other projects under consideration.

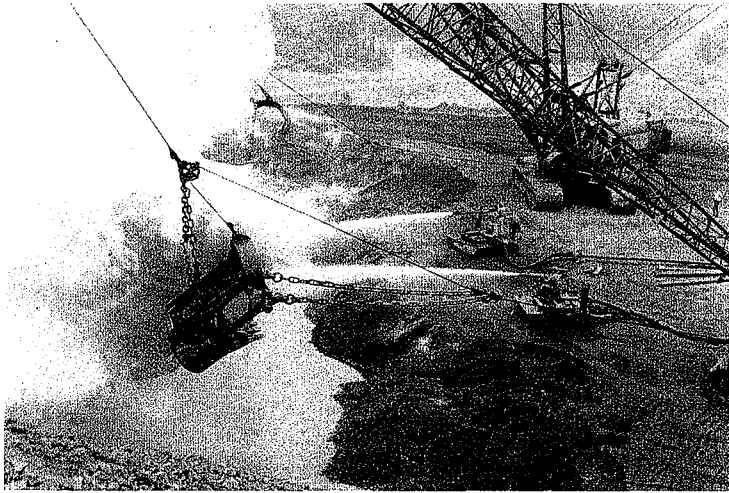
By far the largest number of requests from local governments for Appalachia aid on mining area restoration continued to be for underground mine fire projects. Thirty-eight such projects have been submitted to the Appalachian Regional Commission, along with 7 subsidence projects and 5 strip mine reclamation projects.

The Appalachian Regional Development Act Amendments of 1967 have increased the scope of the Act to include a wider range of problems related to devastation of past mining operations. The original Act of 1965 limited Federal Aid to underground mine fire projects, subsidence projects, and strip mine reclamation projects on publicly owned land. The Amendments of 1967 include provisions for abandoned oil and gas wells, and reclamation and rehabilitation of lands affected by processing of coal and other minerals including land affected by waste piles. The Amendments of 1967 also direct the Appalachian Commission to make a survey, study, and report of acid pollution resulting from mining activities and the effects of such pollution. The Amendments of 1967 taken with original Act of 1965 will make it possible to aid communities in mining areas of Pennsylvania having environmental handicaps for which no provision was made in the original Act. It will thus be possible to more fully cope with the environmental handicaps which have effectively barred many communities in the coal regions from helping themselves to attract new sources of employment.

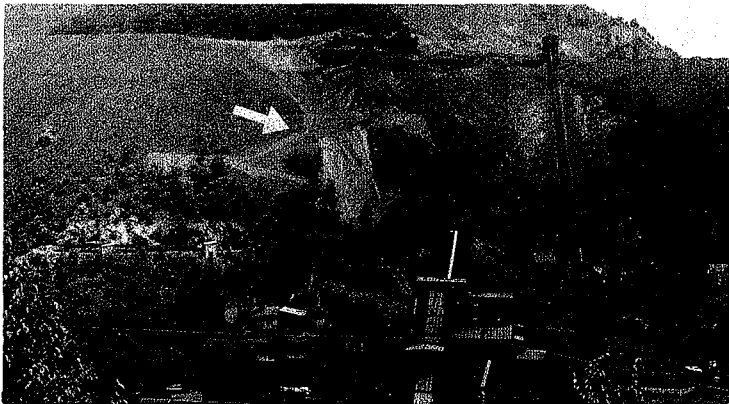


Blasting, in the photo above, and then quenching the blown out portions, photo below, proved to be another technically and economically successful approach to extinguishing burning banks. In an experimental project on the Baker Burning Culm Bank begun in January the Department of Mines and Mineral Industries demonstrated the effectiveness of this successful approach in putting out close to 146,000 tons of burning material in a series of 3 successive shots set off during 1967. Dupont nitramon, which is insensitive to heat, was placed in the hot cores of these banks before blasting. The Department will continue to use this method in similar projects with private industry to eliminate these burning banks as air pollution hazards.

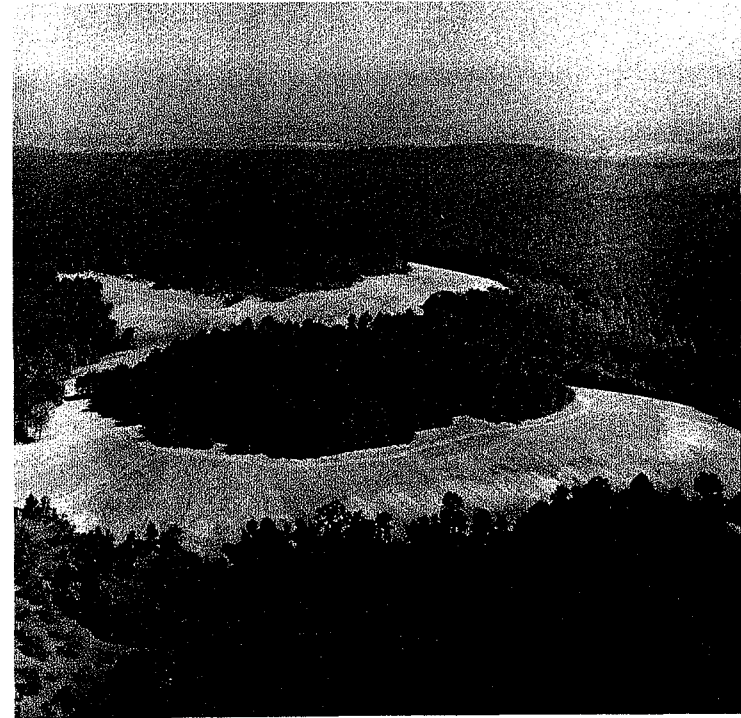




These high pressure hydraulic guns were employed for the first time in extinguishing a great portion of the Huber Burning Bank at Ashley, Pa. under a joint demonstration effort with the Federal Department of Health, Education and Welfare and initiated by the Department of Mines and Mineral Industries. Results of this extinguishment method proved the use of these guns economically and technically feasible in attacking burning banks. Under a similar demonstration grant they were employed on the Marvine Burning Bank in North Scranton by the same contractor, Ed Dixon of Mt. Carmel, Pa. Some 245,000 tons were extinguished at this bank.



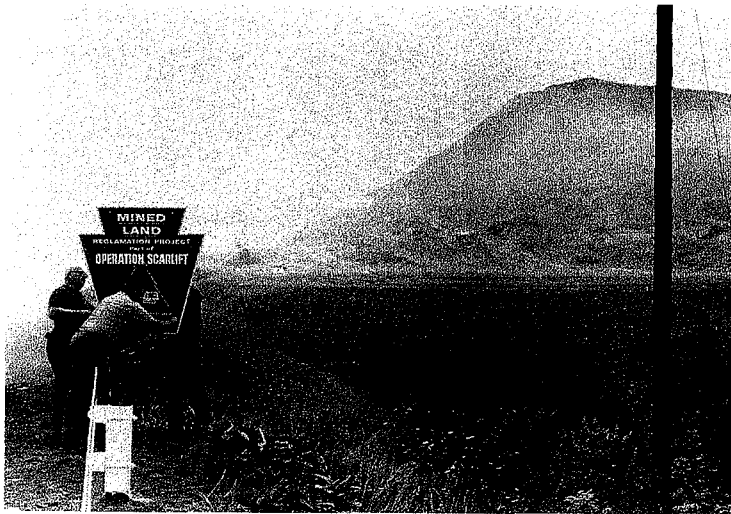
White arrow in photo above points to area immediately behind the Glen Burn Breaker, at Shamokin, Northumberland County, where a huge cutoff trench, 300' long and 40' deep, was carved into the side of the culm bank to stop movement of a fire. A similar trench will be carved into this bank early in 1968. Continued northwesterly movement of the fire in this bank would have threatened a major non-burning portion of the breaker refuse. The bank itself, one of the largest in either the anthracite or bituminous regions, contains nearly 17 million tons of combustible mine refuse.



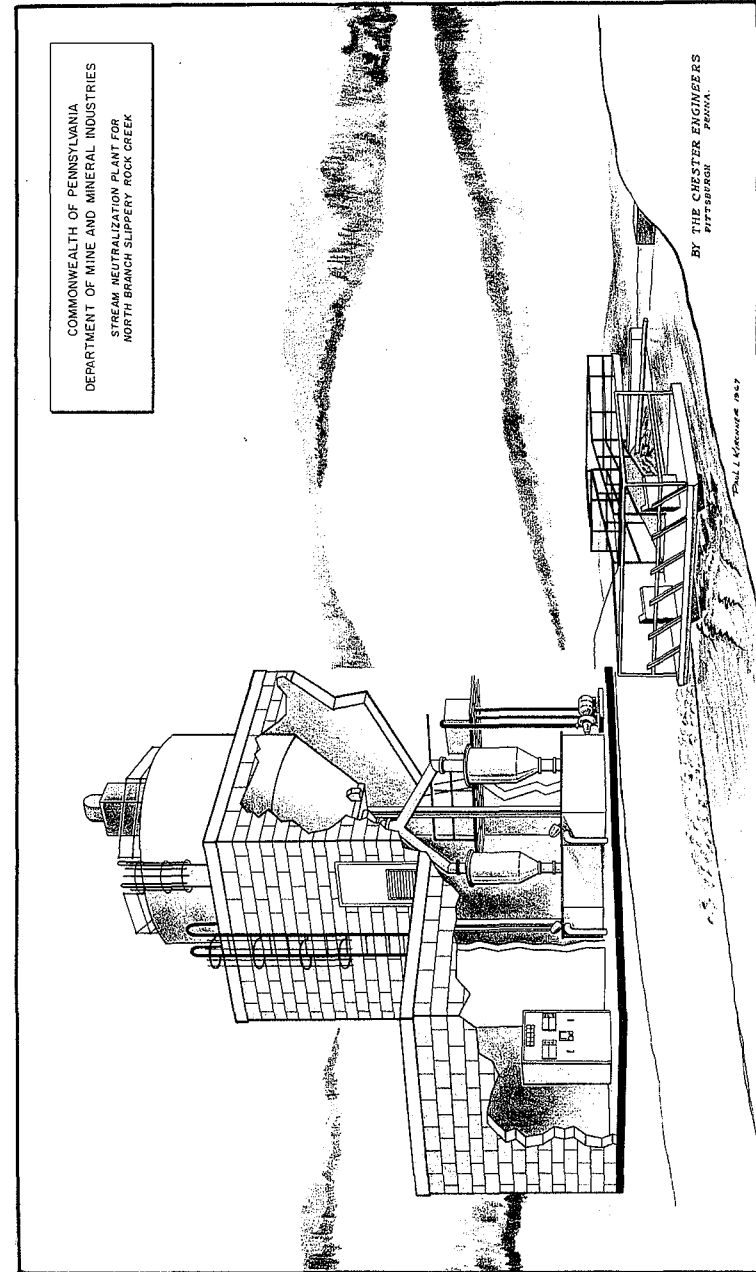
Typical of the work being done by the Department of Mines in restoring strip mined lands at Moraine State Park in Butler County is this restoration job performed by contractor Adrian Davis of Homer City, Pa. It involves the complete restoration of nearly 57.3 acres. Davis is restoring one other abandoned strip mining pit in the Park. The contract with the Department was part of this joint development effort with the Department of Forests and Waters.



Governor Raymond P. Shafer discusses the Hazleton Bank Fire with Dr. H. Beecher Charnbury, left, Secretary of the Department of Mines and Mineral Industries. Photo was taken on the Governor's Tour of the Anthracite Coal Region in February, 1967. Governor Shafer said, "Talking about these problems is one thing. But it's a different thing entirely when you stand on a burning bank, smell the noxious fumes, and see just how much space one actually takes up. Only then can you picture the problem in all its magnitude!"



Workmen from the Department of Mines' Anthracite Division put up an "Operation Scarlift" project identification board adjacent to busy Interstate 81 in North Scranton. Board identifies research-demonstration project that utilized high pressure, hydraulic guns in attempt to knock out as much of the Marvine burning bank (background) as possible under special grant from the Federal Department of Health, Education and Welfare. Method employed on this bank was one of two most successful employed by the Department in its air pollution control work on burning mine refuse banks.



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF MINE AND MINERAL INDUSTRIES  
STREAM NEUTRALIZATION PLANT FOR  
NORTH BRANCH SLIPPERY ROCK CREEK

BY THE CHESTER ENGINEERS  
PITTSBURGH  
PENNA.

PAUL L. KRAMER 1967

This is the artist's rendition of the Slippery Rock Creek Lime Neutralization Plant which has been authorized by Governor Shafer for construction during 1968 under the \$500 million Land and Water Conservation Bond Issue.

# STATISTICAL REPORTS

COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF MINES AND MINERAL INDUSTRIES  
 ANTHRACITE DIVISION  
 TOTAL PRODUCTION OF COAL, PRODUCTION FROM STRIPPINGS AND WASHERIES  
 EMPLOYES, FATALITIES, ETC.  
 1870 - 1967

Year	Total production (net tons)	Washery production (net tons)*	Stripping production (net tons)*	Employees	Fatal- ities	Produc- tion per fatality	Fatal- ities per million tons	No. of ins- pec- tors
	#			#	#	#	#	#
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	386,534		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
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

Year	Total production (net tons)	Machinery production (net tons)*	Stripping production (net tons)*	Employees	Fatalities	Production per fatality	Fatalities per million tons	No. of mines
1928	74,952,312	1,614,863		159,721	447	166,784	6.00	25
1929	72,988,844	878,999		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	1,468,972		138,400	384	153,946	6.50	21
1932	49,501,511	1,069,833		119,480	243	203,710	4.91	21
1933	46,507,577	2,090,996		102,469	232	213,330	4.69	21
1934	56,998,931	1,516,993		106,251	267	218,458	4.58	19
1935	51,559,111	1,876,700		100,539	241	225,162	5.20	17
1936	54,564,016	1,411,988		99,704	212	243,889	4.44	16
1937	51,700,996	1,882,026		99,117	223	207,487	4.10	20
1938	46,269,511	2,031,432		96,998	210	244,761	4.09	24
1939	51,399,707	2,347,269		93,352	182	283,112	3.53	22
1940	51,526,454	2,599,280		90,790	189	285,408	3.50	22
1941	53,942,177	3,689,538		89,849	198	257,509	3.88	22
1942	57,939,629	4,045,970		83,707	225	271,577	3.60	22
1943	60,511,730	7,715,860		79,369	218	274,927	2.67	24
1944	64,112,589	10,527,481		78,145	171	408,038	2.45	23
1945	55,901,235	9,454,205		76,285	137	408,738	2.83	24
1946	61,978,710	3,214,578		80,356	169	366,798	2.73	24
1947	58,227,985	7,076,796		80,730	165	352,897	2.06	26
1948	59,108,910	6,733,688		80,390	131	451,212	2.22	26
1949	44,110,118	4,823,144		79,209	92	485,980	1.86	25
1950	46,339,055	4,027,249		75,231	86	538,829	2.22	25
1951	42,389,055	4,843,834		70,357	94	450,927	1.86	25
1952	40,067,130	4,710,495		66,438	92	435,512	2.30	25
1953	30,495,391	3,892,083		56,952	59	516,871	1.93	25
1954	26,612,312	3,065,528		44,731	47	566,219	1.76	24
1955*	25,934,792	3,618,121		37,397	60	432,227	1.31	20
1956	28,175,633	4,336,168		35,029	54	521,771	1.92	18
1957	25,153,466	4,356,958		32,767	51	493,401	2.03	21
1958	20,456,474	2,981,696		26,738	31	693,886	1.52	20
1959	19,670,615	2,981,696		24,112	46	421,622	2.34	20
1960	17,721,113	3,006,803		20,289	35	506,318	1.98	23
1961	16,506,615	2,418,433		16,971	19	868,769	1.15	23
1962	16,486,315	2,829,421		14,704	26	634,474	1.58	22
1963	17,411,202	2,965,213		13,584	30	580,573	1.72	22
1964	16,324,681	3,013,307		11,839	24	688,529	1.45	22
1965	14,229,817	2,611,189		9,621	8	1,779,727	0.56	21
1966	12,031,375	2,662,558		7,828	5	2,406,875	0.41	21
1967	11,552,441	3,335,557		7,828	9	1,283,605	0.78	21

\* Included in total production.  
 # No accurate record previous to 1870.  
 † No accurate record previous to 1894.  
 % No accurate record previous to 1932.  
 \*\* In 1955 and subsequent years the production, employees, fatalities, etc., of deep mines employing fewer than five (5) persons inside are included in this report.

THIRTY-NINE YEAR STUDY OF ANTHRACITE, BY COUNTIES #

YEAR	CARBON	COLUMBIA	DAUPHIN	LACKAWANNA	LUZERNE	NORTHUMB.	SCHUYLKILL	SULLIVAN	SUSQUE.	WAYNE	DIVISION
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	549,467	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	9,774,216 a	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	9,885,719 b	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	11,242,175 c	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	11,822,153 d	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	13,520,462 e	49,113	62,761	47,248	57,939,629
1943	3,150,839	861,015	229,826	9,149,647	24,082,663	5,463,150	17,396,092 f	101,977	73,037	3,484	60,511,730
1944	3,644,877	1,147,941	299,349	9,427,467	24,810,042	5,743,444	18,834,594 g	147,756	46,216	10,903	64,112,589
1945	3,345,258	1,121,228	292,662	8,083,021	21,073,255	5,001,063	16,731,289 h	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	17,275,544 i	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	13,538,194 j	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	14,066,493 k	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
1952	1,899,297	760,695	868	5,303,545	13,774,952	5,326,146	12,977,572 n	24,055		*	40,067,130
1953	1,561,836	745,649	21,811	3,555,642	10,201,927	4,247,561	10,142,880 o	18,085		*	30,495,391
1954	1,272,419	658,733	52,281	2,903,470	10,675,181	3,283,315	7,836,675	20,238		*	26,612,312
1955 #	1,749,692	569,990	212,239	2,594,928	9,921,275	2,749,383	8,057,660 p	9,625		*	25,934,792
1956	1,746,287	841,201	254,495	3,232,566	9,762,753	3,524,853	8,801,402 q	5,715		6,361	28,175,633
1957	1,107,042	850,479	195,499	2,680,409	8,389,265	3,415,614	8,518,317 r	6,841		*	25,163,466
1958	623,195	888,009	123,861	2,094,170	6,774,033	2,600,831	7,307,839 s	15,174	1,680	27,683	20,456,474
1959	518,252	692,224	142,720	2,147,827	6,172,748	2,551,604	7,432,081 t	8,052		5,107	19,670,615
1960	519,583	474,234	129,002	1,853,008	5,380,696	2,414,599	6,933,916 u	13,828	6,799	1,568	17,721,113
1961	579,106	464,421	108,542	1,194,971	5,307,953	2,004,278	6,827,844 v	16,534	1,675	1,318	16,506,616
1962	497,925	411,185	110,384	1,079,459	6,090,572	1,702,891	6,583,012 w	10,786	9,512	589	16,496,315
1963	727,445	445,749	230,324	964,475	6,412,375	2,082,968	6,531,130 x	8,729		8,007	17,411,202
1964	551,442	910,704	237,555	879,898	5,649,906	2,267,083	6,011,519 y	15,081		1,499	16,524,687
1965	444,826	416,272	196,495	660,558	5,346,676	1,600,886	5,538,420 z	23,096	2,395	193	14,229,817
1966	507,724	299,622	167,568	501,187	4,478,217	1,431,414	4,624,032 aa	20,474	1,137	*	12,031,375
1967	545,089	507,236	162,213	431,073	4,192,283	1,417,420	4,261,992 bb	34,766	369	*	11,552,441

THIRTY-NINE YEAR STUDY OF ANTHRACITE, BY COUNTIES #

YEAR	CARBON	COLUMBIA	DAUPHIN	LACKAWANNA	LUZERNE	NORTHUMB.	SCHUYLKILL	SULLIVAN	SUSQUE.	WAYNE	DIVISION
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	13	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
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
1952	3,279	1,352	40	9,717	28,512	5,538	17,937 n	63	-	-	66,438
1953	2,987	1,298	71	8,496	23,974	4,949	15,116 o	61	-	-	56,952
1954	2,483	957	72	7,074	17,202	4,090	12,747	106	-	-	44,731
1955 #	2,197	1,121	203	4,954	14,399	4,380	10,123 p	20	-	-	37,397
1956	2,092	1,104	210	4,415	14,218	3,169	9,806 q	7	-	8	35,029
1957	1,892	1,143	191	4,309	12,442	3,239	9,544 r	7	-	-	32,767
1958	837	1,064	167	3,448	9,642	3,022	8,512 s	25	3	18	26,738
1959	613	853	208	3,235	8,397	2,857	7,923 t	22	-	4	24,112
1960	759	583	208	2,937	6,002	2,817	6,928 u	21	-	10	20,269
1961	349	416	201	2,167	5,126	2,689	5,998 v	16	3	6	16,971
1962	339	387	223	1,523	4,558	2,115	5,538 w	13	2	6	14,704
1963	387	366	187	1,239	4,626	1,994	5,497 x	13	-	14	14,323
1964	334	549	188	1,171	4,538	1,948	4,832 y	19	-	5	13,584
1965	200	288	159	992	4,167	1,647	4,363 z	17	3	3	11,839
1966	231	158	117	915	3,428	1,312	3,437 aa	15	5	3	9,621
1967	224	240	90	475	3,021	866	2,892 bb	15	5	-	7,828

Empl-  
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THIRTY-NINE YEAR STUDY OF ANTHRACITE, BY COUNTIES #

YEAR	CARBON	COLUMBIA	DAUPHIN	LACKAWANNA	LUZERNE	NORTHUMB.	SCHUYLKILL	SULLIVAN	SUSQUE.	WAYNE	DIVISION
1924	1,325,996	498,917	566,352	9,879,932	17,094,203	4,008,190	10,214,942	85,557	350,847	20,205	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	141,498	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	176,737	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	175,948	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	185,320	3,225,238	8,234,943	1,483,189	2,888,408 b	21,382	43,656	2,735	17,225,261
1940	789,147	322,265	176,868	3,288,238	7,959,512	1,328,685	3,067,419 c	24,683	20,590	2,414	16,979,821
1941	846,859	274,325	129,826	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
1952	699,734	301,122	10,857	2,041,500	5,989,000	1,149,720	3,790,865 n	12,970	-	-	13,995,768
1953	502,738	211,212	9,945	1,397,249	4,483,055	880,576	2,676,234 o	8,875	-	-	10,169,884
1954	367,751	164,373	15,110	839,153	3,085,312	948,934	2,264,934	5,849	-	-	7,691,416
1955 #	377,622	152,351	31,643	842,613	3,015,005	519,882	1,768,767 p	1,953	-	-	6,709,836
1956	414,199	202,062	45,290	983,114	2,982,331	666,321	2,009,587 q	2,142	-	544	7,305,590
1957	267,133	213,100	39,381	825,397	2,264,390	670,183	1,803,776	1,820	-	-	6,185,180
1958	146,841	181,801	32,798	555,748	1,812,300	558,029	1,574,124 s	4,286	600	3,618	4,870,145
1959	88,229	142,597	32,264	602,415	1,370,903	535,469	1,382,621 t	2,950	-	536	4,157,984
1960	77,790	77,423	33,350	531,703	1,274,306	486,175	1,151,822 u	4,500	340	900	3,638,309
1961	79,052	69,179	32,200	438,525	1,139,925	408,027	1,149,644 v	4,176	363	696	3,321,787
1962	79,582	64,902	33,008	299,472	997,943	390,864	1,123,798 w	2,159	368	246	2,992,342
1963	102,359	55,766	38,158	259,189	1,098,611	432,184	1,100,426 x	1,730	-	2,576	3,090,999
1964	68,057	104,052	37,552	250,347	1,057,471	408,207	1,002,987 y	1,624	-	310	2,930,607
1965	35,696	61,212	27,274	166,990	852,831	297,408	811,710 z	2,693	660	360	2,256,834
1966	43,001	37,488	21,965	107,826	729,437	233,234	652,550 aa	2,221	406	30	1,828,158
1967	45,337	64,373	17,150	96,979	675,177	193,816	611,087 bb	3,749	188	-	1,707,856

Man-days

THIRTY-NINE YEAR STUDY OF ANTHRACITE, BY COUNTIES #

YEAR	CARBON	COLUMBIA	DAUPHIN	LACKAWANNA	LUZERNE	NORTHUMB.	SCHUYLKILL	SULLIVAN	SUSQUE.	WAYNE	DIVISION
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
1952	213	222	224	240	238	210	215 n	206	-	-	211
1953	168	163	140	164	187	178	177 o	146	-	-	179
1954	148	172	210	119	179	232	178	55	-	-	172
1955 #	172	136	156	171	209	119	175 p	97	-	-	179
1956	198	183	216	223	210	210	205 q	306	-	68	209
1957	141	186	206	192	190	207	189	260	-	-	189
1958	175	171	196	161	188	185	185 s	171	200	201	182
1959	144	167	155	186	163	187	175 t	134	-	134	172
1960	102	133	160	181	212	173	166 u	214	85	90	180
1961	227	166	160	202	222	242	192 v	261	121	116	196
1962	235	168	148	197	219	185	203 w	166	184	41	204
1963	264	152	204	209	237	217	200 x	133	-	184	216
1964	204	190	200	214	233	210	208 y	85	-	62	216
1965	187	188	171	168	223	180	196 z	158	220	120	191
1966	186	237	188	118	213	178	190 aa	148	81	10	190
1967	202	268	191	204	224	224	211 bb	250	37	-	218

Average days worked

THIRTY-NINE YEAR STUDY OF ANTHRACITE, BY COUNTIES #

YEAR	CARBON	COLUMBIA	DAUPHIN	LACKAWANNA	LUZERNE	NORTHUMB.	SCHUYLKILL	SULLIVAN	SUSQUE.	WAYNE	DIVISION
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
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	44	8	22	-	-	-	94
1952	8	5	-	10	37	10	22	-	-	-	92
1953	3	1	-	7	30	3	15	-	-	-	59
1954	1	2	-	7	27	2	8	-	-	-	47
1955 #	5	-	-	5	32	6	12	-	-	-	60
1956	4	-	-	7	23	6	14	-	-	-	54
1957	3	4	1	7	20	6	10	-	-	-	51
1958	-	1	-	2	15	4	9	-	-	-	31
1959	1	2	-	6	24	4	9	-	-	-	46
1960	1	1	-	11	14	3	5	-	-	-	35
1961	1	-	-	1	10	3	4	-	-	-	19
1962	-	-	-	-	11	1	14	-	-	-	26
1963	1	1	-	3	12	4	9	-	-	-	30
1964	-	-	-	1	7	8	8	-	-	-	24
1965	-	2	1	-	2	1	2	-	-	-	8
1966	-	-	-	-	2	-	3	-	-	-	5
1967	-	-	-	-	4	2	3	-	-	-	9

Fatalities



THIRTY-NINE YEAR STUDY OF ANTHRACITE, BY COUNTIES #

YEAR	CARBON	COLUMBIA	DAUPHIN	LACKAWANNA	LUZERNE	NORTHUMB.	SCHUYLKILL	SULLIVAN	SUSQUE.	WAYNE	DIVISION
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	40,994	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
1936	468,449	-	200,379	223,094	155,584	372,014	362,748	-	-	-	225,162
1937	415,280	208,507	53,823	260,500	220,462	306,947	301,620	-	-	102,858	243,869
1938	324,629	289,478	85,174	172,241	199,664	314,676	222,141	99,879	-	-	207,487
1939	359,165	192,869	158,987	199,969	216,460	370,403	366,138	-	-	-	244,761
1940	362,558	513,813	168,519	264,556	243,785	449,946	340,672	-	124,791	-	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	284,697	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	338,237	718,746	591,867	-	-	-	450,947
1952	237,412	152,130	-	530,355	372,296	532,615	589,890	-	-	-	435,512
1953	520,612	745,649	-	507,949	340,064	1,415,854	676,192	-	-	-	516,871
1954	1,272,419	284,366	-	414,781	395,377	1,641,657	979,584	-	-	-	566,219
1955 #	349,938	-	-	518,986	310,040	458,231	671,472	-	-	-	432,247
1956	436,572	-	-	461,795	424,468	587,476	628,672	-	-	-	521,771
1957	369,014	212,620	195,499	382,916	419,463	569,269	851,832	-	-	-	493,401
1958	-	888,009	-	1,047,085	451,602	650,208	811,982	-	-	-	659,886
1959	518,252	346,112	-	357,971	257,197	637,901	1,061,726	-	-	-	427,622
1960	519,583	474,234	-	168,455	384,335	804,866	1,386,229	-	-	-	506,318
1961	579,106	-	-	1,194,971	530,795	668,093	1,703,547	-	-	-	868,769
1962	-	-	-	-	553,688	1,702,891	469,279	-	-	-	634,474
1963	727,455	445,749	-	321,491	534,365	520,742	720,548	-	-	-	580,373
1964	-	-	-	879,898	807,129	283,385	747,312	-	-	-	688,529
1965	-	208,136	196,495	-	2,673,338	1,600,886	2,747,459	-	-	-	1,778,727
1966	-	-	-	-	2,239,108	-	1,541,344	-	-	-	2,406,275
1967	-	-	-	-	1,048,071	708,710	1,419,764	-	-	-	1,283,605

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THIRTY-NINE YEAR STUDY OF ANTHRACITE, BY COUNTIES #

YEAR	CARBON	COLUMBIA	DAUPHIN	LACKAWANNA	LUZERNE	NORTHUMB.	SCHUYLKILL	SULLIVAN	SUSQUE.	WAYNE	DIVISION
1924	8.30	22.05	12.36	12.65	11.29	9.48	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	-	-	12.68
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	-	-	-	12.58
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	14.48	-	-	-	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	7.20	4.72	5.07	-	-	-	5.98
1952	11.43	16.60	-	4.90	6.18	8.70	5.80	-	-	-	6.57
1953	5.97	4.73	-	5.01	6.69	3.41	5.60	-	-	-	5.80
1954	2.72	1.22	-	8.34	8.75	2.11	3.53	-	-	-	6.11
1955 #	13.24	-	-	5.93	10.61	11.54	6.78	-	-	-	8.94
1956	9.66	-	-	7.12	7.71	9.00	6.07	-	-	-	7.39
1957	11.23	18.77	25.39	8.48	8.46	8.95	5.54	-	-	-	8.25
1958	-	5.50	-	3.60	8.28	7.17	5.72	-	-	-	6.37
1959	11.33	14.03	-	9.96	17.51	7.47	6.51	-	-	-	11.06
1960	12.86	12.92	-	20.68	10.99	6.17	4.34	-	-	-	9.62
1961	12.65	-	-	2.28	8.77	7.35	3.47	-	-	-	5.72
1962	-	-	-	-	11.02	2.56	12.46	-	-	-	8.69
1963	9.77	17.93	-	11.57	10.92	9.26	8.18	-	-	-	9.71
1964	-	-	-	3.99	6.62	19.60	7.98	-	-	-	8.19
1965	-	32.67	36.66	-	2.35	3.36	2.46	-	-	-	3.54
1966	-	-	-	-	2.74	-	4.60	-	-	-	2.73
1967	-	-	-	-	5.92	10.13	4.91	-	-	-	5.26

Fatal-  
ities  
per  
mil-  
lion  
man-  
days

EXPLANATION OF SYMBOLS USED IN 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	"	"	"	"
n -	"	24,767	"	11	"	286	"	"	2,156	"	"	"	"
o -	"	6,560	"	10	"	46	"	"	460	"	"	"	"
p -	"	3,752	"	20	"	120	"	"	2,408	"	"	"	"
q -	"	6,359	"	22	"	107	"	"	2,358	"	"	"	"
r -	"	3,550	"	5	"	188	"	"	940	"	"	"	"
s -	"	9,106	"	6	"	98	"	"	588	"	"	"	"
t -	"	4,450	"	6	"	153	"	"	918	"	"	"	"
u -	"	2,770	"	3	"	230	"	"	690	"	"	"	"
v -	"	13,654	"	5	"	72	"	"	360	"	"	"	"
w -	"	13,101	"	7	"	118	"	"	824	"	"	"	"
x -	"	26,192	"	15	"	192	"	"	2,893	"	"	"	"
y -	"	33,019	"	14	"	124	"	"	1,737	"	"	"	"
z -	"	43,000	"	10	"	163	"	"	1,630	"	"	"	"
aa -	"	39,237	"	9	"	70	"	"	634	"	"	"	"
bb -	"	2,700	"	5	"	18	"	"	90	"	"	"	"

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

\* Not segregated from Lackawanna County.

# In 1955, and subsequent years, the production, employes, fatalities, etc., of deep mines employing fewer than five (5) persons inside are included in the County totals.

ANTHRACITE DIVISION  
PRODUCTION OF COAL, EMPLOYES AND FATALS BY COUNTY  
1967

County	Mines Employing Five or More Persons			Mines Employing Fewer Than Five Persons		Percentage of Total Production	Employes by County				Washery and Breaker	Total employes	Total fatalities
	Deep Mined Production	Strip Mined Production	Bank Mined Production	Deep Mined Production	Total Production		Deep	Small Deep*	Strip	Bank			
Carbon	27,544	311,468	206,077	-	545,089	4.72%	29	-	150	25	20	224	-
Columbia	64,368	395,666	23,134	24,068	507,236	4.39%	62	22	172	6	-	240	-
Dauphin	-	-	138,782	23,431	162,213	1.41%	29	29	-	12	49	90	-
Lackawanna	13,558	234,939	182,576	-	431,073	3.73%	69	-	154	56	196	475	-
Lebanon	-	2,700	-	-	2,700	0.02%	-	-	5	-	-	5	-
Luzerne	1,449,000	1,553,233	1,190,050	-	4,192,283	36.29%	1,787	-	480	213	541	3,021	4
Northumberland	282,656	404,103	600,409	130,252	1,417,420	12.27%	395	171	156	68	247	866	2
Schuylkill	1,085,502	1,973,062	994,432	206,296	4,259,292	36.87%	892	238	905	214	876	2,887	3
Sullivan	-	34,766	-	-	34,766	0.30%	-	-	10	-	5	15	-
Susquehanna	-	272	97	-	369	-	-	-	2	1	2	5	-
Wayne	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Division Total</b>	<b>2,922,628</b>	<b>4,910,209</b>	<b>3,335,557</b>	<b>384,047</b>	<b>11,552,441</b>	<b>100.00%</b>	<b>3,263</b>	<b>460*</b>	<b>2,034</b>	<b>595</b>	<b>1,936</b>	<b>7,828</b>	<b>9</b>
Percentage of Total Production	25.30%	42.50%	28.87%	3.33%	100.00%								

\* 460 Small deep employes included in deep employes total.

ANTHRACITE PRODUCTION (DEEP MINED, STRIPPING AND BANK), FATALITIES, PRODUCTION PER FATAL AND EMPLOYEES BY DISTRICT 1967

District	Inspector	Deep Mined	Stripping	Bank	Total Production	Fatalities Deep	Fatalities Strip	Fatalities Bank	Total Fatalities	Production Per Fatal	TOTAL EMPLOYEES
1	T. M. Beaney	-	854,070	-	854,070	-	-	-	-	-	409
2	R. O. Schneider	-	1,868,687	-	1,868,687	-	-	-	-	-	663
3	J. R. Ruane	-	1,290,715	-	1,290,715	-	1	-	1	-	597
4	Walter Davis	-	896,737	-	896,737	-	-	-	-	-	375
10	W. A. Sanders	13,558	-	45,781	59,339	-	-	-	-	-	194
11	G. F. Kettle	920,788	-	129,060	1,049,848	2	-	-	2	524,924	898
12	G. R. Sterling	152,663	-	138,782	291,445	-	-	-	-	-	198
13	W. R. Devens	244,791	-	465,375	710,166	-	-	-	-	-	830
15	A. A. Joyce	293,166	-	816,254	1,109,420	2	-	-	2	554,710	1,035
16	F. C. O'Connor	542,252	-	-	542,252	2	-	-	2	271,126	312
17	C. E. Kashner	147,867	-	59,475	207,342	1	-	-	1	207,342	144
18	J. J. Shober, Jr.	123,056	-	398,628	521,684	-	-	-	-	-	349
19	A. J. Latz	94,167	-	176,037	270,204	-	-	-	-	-	278
20	A. E. Hand, Acting	66,938	-	460,600	527,538	-	-	-	-	-	162
21	C. E. Miller	244,332	-	37,405	281,737	1	-	-	1	281,737	210
23	G. P. Gallagher	40,887	-	28,162	69,049	-	-	-	-	-	77
24	A. E. Hand	65,559	-	17,870	83,439	-	-	-	-	-	214
26	P. P. Hino	91,032	-	527,826	618,858	-	-	-	-	-	570
28	Leon Brass	133,266	-	13,686	146,952	-	-	-	-	-	122
29	H. R. Reese	8,306	-	20,616	28,922	-	-	-	-	-	25
30	W. D. Maurer	124,037	-	-	124,037	-	-	-	-	-	166
Division Total		3,306,675	4,910,209	3,335,557	11,552,441	8	1	-	9	1,283,605	7,828

SUMMARY OF ANTHRACITE MINES, PRODUCTION AND FATALITIES BY DISTRICT 1967

District	Inspector	Total Number of Operators	No. of Large Deep Mines	No. of Small Deep Mines*	No. of Strip of Mines Banks	Total Number of Mines	No. of Gaseous Mines	No. of Non-Gaseous Mines	No. of Deep Em- ployes	No. of Strip Em- ployes	No. of Bank Em- ployes	Washery & Breaker Em- ployes	Total No. of Em- ployes	Deep Mined Production*	Strip Mined Production	Bank Mined Production	Total Production	Fatalities	Production Per Fatal
1	T. M. Beaney	12	-	-	38	38	-	-	-	-	-	399	409	-	854,070	-	854,070	-	-
2	R. O. Schneider	9	-	-	31	31	-	-	-	-	-	663	663	-	1,868,687	-	1,868,687	-	-
3	J. R. Ruane	23	-	-	56	56	-	-	-	-	-	597	597	-	1,290,715	-	1,290,715	1	1,290,715
4	Walter Davis	30	-	-	30	30	-	-	-	-	-	375	375	-	896,737	-	896,737	-	-
10	W. A. Sanders	16	4	-	8	12	-	4	50	-	22	122	194	13,558	-	45,781	59,339	-	-
11	G. F. Kettle	8	10	-	4	14	10	-	773	-	28	97	898	920,788	-	129,060	1,049,848	2	524,924
12	G. R. Sterling	34	28	21	-	31	7	21	122	-	12	64	198	152,663	-	138,782	291,445	-	-
13	W. R. Devens	26	6	-	-	25	11	5	1	504	-	111	215	830	244,791	-	465,375	-	-
15	A. A. Joyce	24	6	-	-	15	2	4	546	-	118	371	1,035	293,166	-	816,254	1,109,420	2	554,710
16	F. C. O'Connor	34	32	12	-	32	17	15	246	-	6	23	144	542,252	-	-	542,252	2	271,126
17	C. E. Kashner	34	24	13	-	26	7	17	115	-	75	176	349	147,867	-	59,475	207,342	1	207,342
18	J. J. Shober, Jr.	38	18	10	-	26	4	14	98	-	34	140	278	123,056	-	398,628	521,684	-	-
19	A. J. Latz	22	17	11	-	8	20	6	11	70	-	36	56	94,167	-	176,037	270,204	-	-
20	A. E. Hand, Acting	37	32	15	-	3	35	4	28	168	-	9	33	66,938	-	460,600	527,538	-	-
21	C. E. Miller	15	12	7	-	3	15	4	8	56	-	14	7	244,332	-	37,405	281,737	1	281,737
23	G. P. Gallagher	25	10	8	-	2	12	1	9	69	-	3	142	40,887	-	28,162	69,049	-	-
24	A. E. Hand	25	10	12	-	20	43	7	16	125	-	118	327	65,559	-	17,870	83,439	-	-
26	P. P. Hino	38	23	12	-	1	23	12	10	105	-	4	13	91,032	-	527,826	618,858	-	-
28	Leon Brass	7	5	4	-	1	6	1	4	14	-	5	6	133,266	-	13,686	146,952	-	-
29	H. R. Reese	11	8	-	-	11	5	5	6	98	-	-	68	8,306	-	20,616	28,922	-	-
30	W. D. Maurer	14	11	8	-	-	5	5	6	-	-	-	166	124,037	-	-	124,037	-	-
Division Total		494 <sup>†</sup>	279	144 <sup>**</sup>	155 <sup>**</sup> 106	540	100	179	3,263	2,034	595	1,936	7,828	3,306,675	4,910,209	3,335,557	11,552,441	9	1,283,605

# Due to some companies operating in more than one district, the actual number of Anthracite Operators is 412.  
 \* 144 Small Deep Mines are included in the total number of Deep Mines; 460 Small Deep Employees are included in Deep.  
 \*\* 144,047 Small Deep Production is included in Deep Mined Production.  
 † Due to some companies operating in more than one district, the actual total number of Anthracite Strip Operators is 57.

Production, How Shipped, Average Days Worked, Employes, Explosives  
Fatal and Non-fatal Accidents

By Inspection District - 1967

Dis- trict	Shipped to Market		Production - Net Tons			Pounds permiss- ible ex- plosives used	Pounds dynamite used	Days worked	Empl- oyes	Fatal acci- dents	Non- fatal acci- dents
	By railroad	By truck	Sold to local trade	Used at colliery for steam and heat	Total production						
1	312,118	222,092	318,638	1,222	854,070	2,049,818	2,635,515	263	409	-	12
2	1,034,475	639,689	187,068	7,455	1,868,687	-	15,183,058	243	663	-	36
3	371,018	818,852	99,664	1,181	1,290,715	-	9,330,997	223	597	1	17
4	399,491	216,208	280,480	558	896,737	12,079,532	6,131	207	375	1	26
10	19,407	14,131	25,642	159	59,339	9,450	2,050	173	194	-	7
11	325,375	473,162	211,215	40,096	1,049,848	891,600	24,400	227	898	2	130
12	145,953	84,430	60,346	716	291,445	67,910	4,665	211	198	-	2
13	153,692	441,267	114,418	789	710,166	282,100	300	206	830	-	60
15	607,534	382,353	118,376	1,157	1,109,420	336,225	34,700	209	1,035	2	87
16	63,217	226,748	250,032	2,255	542,252	328,935	-	270	312	2	32
17	51,160	102,391	52,937	854	207,342	81,010	100	220	144	1	5
18	166,051	285,112	70,036	485	521,684	57,850	5,100	221	349	-	28
19	124,333	104,775	40,503	593	270,204	56,910	9,050	190	278	-	27
20	477,279	37,893	11,976	390	527,538	49,698	-	244	162	-	6
21	41,614	166,146	73,281	696	281,737	174,425	1,500	227	210	1	4
23	24,110	39,787	4,968	184	69,049	25,967	-	201	77	-	-
24	14,157	62,306	6,799	177	83,439	43,515	75	237	214	-	10
26	395,066	81,066	142,105	621	618,858	69,525	8,525	166	570	-	38
28	11,762	109,697	25,425	68	146,952	50,610	305	231	122	-	9
29	-	28,910	-	12	28,922	4,550	950	196	25	-	-
30	25,591	65,766	32,432	248	124,037	55,950	-	214	166	-	13
Total	4,763,403	4,602,781	2,126,341	59,916	11,552,441	16,715,580	27,247,421	218	7,828	9	549

ANTRACITE DIVISION  
SMALL MINE REPORT - 1967\*

Dis- trict	Number of Small Mine Operators	Number of Small Mines	Number of Men Employed in Small Mines	Small Mine Production	Fatal acci- dents	Non- fatal acci- dents	Number of Man-Days
1	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-
11	-	-	-	-	-	-	-
12	21	21	66	56,960	-	2	14,066
13	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-
16	12	12	29	49,225	-	-	6,411
17	13	13	49	10,482	-	-	9,969
18	10	10	32	21,448	-	-	4,845
19	10	10	39	36,838	-	-	5,715
20	11	11	38	28,566	-	-	6,615
21	15	15	48	38,338	-	-	7,481
23	7	7	22	12,419	-	-	3,651
24	8	8	25	15,746	-	-	3,802
26	10	12	32	12,790	-	-	4,396
28	13	13	46	47,941	-	-	9,895
29	4	4	9	4,270	-	-	1,461
30	8	8	25	19,024	-	-	2,612
Total	112	114	460	384,047	-	2	80,919

\* All figures included in report of Summary of Anthracite Mines, Production and Fatalities  
By District.

ANTHRACITE DIVISION

District	Mechanical Loading			Number of Tons Produced by Mechanical Loading	Number of Employees engaged in this class of work	Electric Motors		Pumps Delivering Water to Surface	
	Number of Scrapers, Conveyors or Shaker Chutes	Number of Under-cutting or Mining Machines	Number of Loading Machines			Total Number	Total Horsepower	Total Number	Number of Gallons delivered per day of 24 hours
1	-	-	-	-	-	21	858	2	14,400,000
2	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
10	11	-	-	-	-	-	-	1	2,800,000
11	191	-	-	12,815	30	2	600	2	6,774,783
12	4	-	-	866,455	425	186	3,948	1	720,000
13	56	-	4	162,744	18	220	33,615	17	17,302,000
15	39	-	3	230,000	258	845	2,994	19	848,000
16	6	2	5	232,860	295	715	31,020	13	42,500,000
17	6	-	18	140,719	34	283	27,256	25	23,502,712
18	7	-	-	41,406	22	132	8,814	57	2,843,300
19	10	-	2	32,184	16	427	3,637	30	1,730,919
20	4	-	-	31,254	15	538	12,619	8	97,500
21	13	-	3	465,419	39	122	9,730	17	5,035,671
23	-	-	10	142,454	48	200	3,355	4	3,582,000
24	7	-	3	28,162	11	25	3,184	30	867,080
26	7	-	2	53,538	23	381	624	3	21,600
28	11	-	2	25,730	26	439	4,225	11	2,204,750
29	4	-	1	39,585	18	85	12,999	9	11,832,461
30	6	-	6	23,816	7	20	2,113	27	108,650
				47,620	20	198	217	4	61,000
Total	382	2	66	2,576,761	1,305	5,459	166,230	302	139,180,426

SUMMARY OF EMPLOYES BY DISTRICT  
ANTHRACITE DIVISION--1967

District	INSIDE EMPLOYEES					OUTSIDE EMPLOYEES					GRAND TOTAL Inside & Outside
	Mine Foreman	Miners	Miners Laborers	All Other	Total Inside	Super-intendents	Office	Breaker	All Other	Total Outside	
1	-	-	-	-	-	28	8	10	363	409	409
2	-	-	-	-	-	71	27	-	565	663	663
3	-	-	-	-	-	39	6	-	552	597	597
4	-	-	-	-	-	28	3	-	344	375	375
10	5	13	26	4	48	6	2	122	16	144	194
11	36	200	239	120	595	13	14	97	179	303	898
12	26	49	13	-	88	5	-	64	41	110	198
13	8	65	125	123	321	7	10	215	277	509	830
15	19	99	190	120	428	23	5	371	208	607	1,035
16	37	132	3	29	201	3	-	66	42	111	312
17	27	47	9	1	84	6	-	23	31	60	144
18	20	47	3	4	74	10	3	176	86	275	349
19	23	44	11	-	78	3	-	140	57	200	278
20	16	29	7	-	52	8	1	56	45	110	162
21	42	60	22	-	124	7	-	33	46	86	210
23	15	23	3	-	41	6	2	7	21	36	77
24	14	38	3	2	57	2	-	142	13	157	214
26	21	41	14	8	84	13	4	327	142	486	570
28	26	33	14	-	73	5	-	13	31	49	122
29	7	4	2	-	13	1	-	6	5	12	25
30	18	37	14	10	79	4	-	68	15	87	166
Total	360	961	698	421	2,440	288	85	1,936	3,079	5,388	7,828

ANTHRACITE DIVISION  
OPERATORS PRODUCING 50,000 OR MORE TONS

1967

Dis- trict	Operator	Production
1-10-11-13-15	Blue Coal Corporation	1,320,766
3-4-17-18-19-23-26	Reading Anthracite Co.	1,095,378
1-2-3-11-13-15-16-18-26	Lehigh Valley Anthracite, Inc.	996,938
2-15	Jeddo-Highland Coal Co.	969,512
11	Glen Man Coal Co., Inc.	658,477
2	Greenwood Stripping Corporation	615,006
12-20	Gangloff Brothers	401,464
13-15	George Racho	278,372
3	Kerris & Helfrick, Inc.	234,545
2-15	Honeybrook Mines, Inc.	214,692
1	Carbondale Coal Co., Inc.	191,271
20	State Coal Co., Inc.	172,639
18-19-21	Manbeck Dredging Co., Inc.	167,400
26	B-D Mining Co.	144,483
3-26	Capparell Stripping & Construction Co.	120,540
3	Gilberton Coal Co.	114,162
2-15	George Huss	110,641
13	Popple Coal Sales Co., Raymond	100,687
1-13-19	Scranton Excavating Co.	94,479
30	Mercury Coal Co., Inc.	81,912
18	Mar Strip & Excavating Co.	81,699
4-16	Kocher Coal Co., Leon E.	75,995
3	Sanchez Construction Co.	73,931
16	Bush Coal Co.	72,679
18	William Schickram	68,799
3-17-24-26-28	Split Vein Coal Co., Inc.	68,555
18	Correale Construction Co.	67,522
2	Gowen Coal Co.	66,680
3-24	Rosini Coal Co.	58,973
15	Coleby Coal Co., Inc.	55,160
15	Pollock, Inc., Ken	55,083

PRODUCTION AND ACCIDENT RECORD  
FOR OPERATORS HAVING A FATALITY

1967

Operator	Deep Mined	Stripping	Bank	Total		Strip	Bank	Total	Non-Fatal	Production Per Fatal	Employees
				Production	Fatal						
Blue Coal Corporation	749,624	405,315	165,827	1,320,766	3	-	-	3	177	440,255	1,577
Glen-Man coal Co., Inc.	-	658,477	-	658,477	1	-	-	1	73	658,477	433
Bush Coal Co.	-	72,679	-	72,679	1	-	-	1	-	72,679	20
R.B.F. Coal Co.	-	29,010	13,686	42,696	1	-	-	1	-	42,696	16
Erdman Coal Co.	29,887	-	-	29,887	1	-	-	1	-	29,887	15
Gem Coal Co.	21,240	-	-	21,240	1	-	-	1	1	21,240	11
Reichwein & Beury Coal Co.	13,368	-	-	13,368	1	-	-	1	-	13,368	10
Total production for operators with a fatality	814,119	1,165,481	179,513	2,159,113	8	1	-	9	251	239,901	2,082
Total production for operators without a fatality	2,492,556	3,744,728	3,156,044	9,393,328	-	-	-	-	298	-	5,746
Division Total	3,306,675	4,910,209	3,335,557	11,552,441	8	1	-	9	549	1,283,605	7,828

CAUSES OF ANTHRACITE FATAL ACCIDENTS, BY COUNTY, 1967

	Carbon	Columbia	Dauphin	Lackawanna	Lebanon	Luzerne	Northumberland	Schuylkill	Sullivan	Susquehanna	Wayne	Total	Percentage of total accidents
<u>INSIDE</u>													
Falls of Roof, Face or Sides	-	-	-	-	-	3	1	3	-	-	-	7	77.78%
Machinery	-	-	-	-	-	1	-	-	-	-	-	1	11.11%
Total Inside	-	-	-	-	-	4	1	3	-	-	-	8	88.89%
<u>OUTSIDE</u>													
Stripping	-	-	-	-	-	-	1	-	-	-	-	1	11.11%
Total Outside	-	-	-	-	-	-	1	-	-	-	-	1	11.11%
GRAND TOTAL	-	-	-	-	-	4	2	3	-	-	-	9	100.00%
Percentage of total accidents	-	-	-	-	-	44.45%	22.22%	33.33%	-	-	-	-	100.00%

ANTHRACITE FATAL ACCIDENT VICTIMS - 1967

District	Name of Victim	Victim's Address	Company	Mine	Date of Accident	Cause of Accident
16	Sylvester Kreiser	Jonestown	Bush Coal Co.	Top Split Slope	Jan. 9	Fall of Roof
15	Gilbert Paczkoski	Glen Lyon	Blue Coal Corporation	Wanamie No. 19	Jan. 27	Fall of Roof
15	Frank Kropiewnicki	Glen Lyon	Blue Coal Corporation	Wanamie No. 19	Jan. 27	Fall of Roof
11	John J. Langdon	Plains	Blue Coal Corporation	Ought Tunnel	Mar. 3	Fall of Roof
11	Stanley M. Fundalewicz	Nanticoke	Glen-Nan Coal Co., Inc.	No. 3 Slope	Apr. 6	Machinery (Inside)
3	Donald Ressler	Atlas	R. B. F. Coal Co.	Edgewood Strip	Apr. 7	Stripping
21	Harold Weikel	Ashland	Reichwein & Beury Coal Co.	R. & B. Mine	Apr. 19	Fall of Roof
16	William Shomper	Valley View	Erdman Coal Co.	Middle Split Slope	May 1	Fall of Roof
17	Paul Reidinger	Trevorton	Gem Coal Co.	No. 11 Vein S.D.No.3 Slope	Dec. 20	Fall of Roof

## ACCIDENTS IN WHICH FIVE OR MORE PERSONS WERE KILLED, 1847 - 1967

Year	Date	Colliery	Company	Location of colliery	Cause of Accident	Number Killed
1847	Feb.	Spencer	Spencer Coal Co.	Pottsville	Explosion of gas	7
1869	Sep. 6	Avondale	Delaware, Lackawanna & Western Railroad Co.	Plymouth	Mine fire	110
1870	Mar. 22	Potts	Locust Dale Coal Co.	Locust Dale	Boiler explosion	5
	Aug. 10	Heins & Glassmire	Heins & Glassmire	Middleport	Cage fell down shaft	9
	Aug. 29	Preston #3	Preston Coal & Improvement Co.	Girardville	Car fell down slope	7
1871	May 27	West Pittston	Lehigh Valley Railroad Co.	West Pittston	Suffocated by smoke from burning breaker	20
	Oct. 2	Otto Red Ash	Cain, Hacker & Cook	Branch Dale	Explosion of gas	5
1873	June 10	Henry Clay	Langdon & Co., R.	Shamokin	Explosion of gas	10
1877	May 9	Wadesville	Wadesville Shaft Colliery	Wadesville	Explosion of gas	7
1878	Jan. 15	Potts	Philadelphia & Reading Coal & Iron Co.	Locust Dale	Explosion of gas	5
1879	May 6	Audenried	Lehigh & Wilkes-Barre Coal Co.	Audenried	Explosion of gas	6
	Nov. 2	Mill Creek	D. & H. Canal Co.	Mill Creek	Explosion of gas	5
1880	May 3	Lykens Valley	Short Mountain & Lehigh Valley Coal Co.	Shamokin	Explosion of gas	5
1882	May 24	Kohinoor	Heckscher & Co., R.	Shenandoah	Explosion of gas	5
1884	Aug. 21	Buck Ridge	Philadelphia & Reading Coal & Iron Co.	Shamokin	Mine fire	7
1885	Apr. 6	Cuyler	Heaton & Co., S. M.	Raven Run	Fall of roof	10
	Aug. 11	West End	West End Coal Co.	Mocanaqua	Suffocated by gas from boiler fire	10
	Oct. 21	Plymouth No. 2	D. & H. Coal Co.	Plymouth	Explosion of gas	6
	Dec. 18	Nanticoke No. 1	Susquehanna Coal Co.	Nanticoke	Inrush of quicksand	26
1886	Aug. 30	Fair Lawn	Fair Lawn Coal Co.	Scranton	Explosion of gas	6
	Sep. 13	Marvine	D. & H. Coal Co.	Scranton	Suffocated by gas	8
	Nov. 26	Conyngham	D. & H. Coal Co.	Wilkes-Barre	Explosion of gas	12
1887	Apr. 27	Tunnel	Philadelphia & Reading Coal & Iron Co.	Ashland	Suffocated by gas	5
	Oct. 1	Bast	Philadelphia & Reading Coal & Iron Co.	Big Mine Run	Explosion of gas	5
1889	May 9	Kaska, William	L. C. & N. Co.	Middleport	Car fell on cage in shaft	10
1890	Feb. 1	Nottingham	Lehigh & Wilkes-Barre Coal Co.	Plymouth	Explosion of gas	8
	Mar. 3	S. Wilkes-Barre No. 3	Lehigh & Wilkes-Barre Coal Co.	Wilkes-Barre	Explosion of gas	8
	Apr. 2	Susquehanna No. 4	Susquehanna Coal Co.	Nanticoke	Explosion of gas	5
	May 15	Jersey No. 8	Lehigh & Wilkes-Barre Coal Co.	Ashley	Explosion of gas	26
1891	Feb. 4	Spring Mountain No. 1	Spring Mountain Coal Co.	Jeanesville	Drowned-water from old workings	13
	Oct. 23	Richardson	Philadelphia & Reading Coal & Iron Co.	Glen Carbon	Suffocated by gas	7
	Nov. 8	Susquehanna No. 1	Susquehanna Coal Co.	Nanticoke	Explosion of gas	12
1892	Apr. 20	Lytle	Lytle Coal Co.	Minersville	Drowned-water from old workings	10
	July 23	York Farm	Lehigh Valley Coal Co.	Pottsville	Explosion of gas	15

## ACCIDENTS IN WHICH FIVE OR MORE PERSONS WERE KILLED, 1847 - 1967

Year	Date	Colliery	Company	Location of colliery	Cause of Accident	Number Killed
1893	Apr. 1	Neilson	Langdon & Co., Inc., A. L.	Shamokin	Mine fire	10
	July 22	Susquehanna No. 1	Susquehanna Coal Co.	Nanticoke	Explosion of gas	5
	Sep. 21	Lance No. 11	Lehigh & Wilkes-Barre Coal Co.	Plymouth	Explosion of gas	6
1894	Feb. 13	Gaylord	Kingston Coal Co.	Plymouth	Fall of roof	13
	July 17	East Sugar Loaf	Linderman & Skeer	Stockton	Explosion of powder & dynamite	8
	Oct. 8	Luke Fidler	Mineral Railroad & Mining Co.	Shamokin	Mine fire	5
	Oct. 11	Henry Clay	Philadelphia & Reading Coal & Iron Co.	Shamokin	Boiler explosion	6
1895	Feb. 18	West Bear Ridge	Philadelphia & Reading Coal & Iron Co.	Mahanoy Plane	Explosion of gas	5
	Oct. 7	Dorrance	Lehigh Valley Coal Co.	Wilkes-Barre	Explosion of gas	7
1896	June 28	Twin	Newton Coal Co.	Pittston	Fall of Roof	58
	Oct. 29	S. Wilkes-Barre No. 3	Lehigh & Wilkes-Barre Coal Co.	Wilkes-Barre	Explosion of gas	6
1897	Jan. 13	Wadesville	Philadelphia & Reading Coal & Iron Co.	Wadesville	Crosshead fell down shaft	5
	Sep. 28	Jermyn No. 1	Jermyn & Co.	Rendham	Mine fire	5
	Oct. 30	Von Storch	D. & H. Coal Co.	Scranton	Mine fire	6
1898	May 26	Kaska, William	Dodson Coal Co.	Middleport	Drowned-water from old workings	6
	Oct. 1	Midvale	Lehigh Valley Coal Co.	Wilkes-Barre	Mine fire	5
	Nov. 5	Exeter	Lehigh Valley Coal Co.	West Pittston	Car fell on cage in shaft	9
1900	Nov. 9	Buck Mountain	Mill Creek Coal Co.	West Pittston	Explosion of gas	7
1901	Oct. 25	Buttonwood	Parrish Coal Co.	Mahanoy City	Explosion of gas	6
1902	Nov. 29	Luke Fidler	Mineral Railroad & Mining Co.	Plymouth	Explosion of gas	7
	Dec. 9	S. Wilkes-Barre	Lehigh & Wilkes-Barre Coal Co.	Shamokin	Explosion of powder & dynamite	5
1904	Jan. 30	Maple Hill	Philadelphia & Reading Coal & Iron Co.	Wilkes-Barre	Explosion of powder & dynamite	5
	May 5	Lance	Lehigh & Wilkes-Barre Coal Co.	Mahanoy City	Explosion of powder & dynamite	5
	May 5	Locust Gap	Philadelphia & Reading Coal & Iron Co.	Plymouth	Explosion of powder & dynamite	5
	May 25	Williamstown	Summit Branch Mining Co.	Locust Gap	Mine fire	5
	Nov. 2	Auchincloss	Delaware, Lackawanna & Western Railroad Co.	Williamstown	Suffocated by gas from mine locomotive	10
1905	Feb. 18	Lytle	Lytle Coal Co.	Nanticoke	Falling down shaft	10
	Mar. 9	Clear Spring	Clear Spring Coal Co.	Minersville	Fall of roof	5
	Apr. 26	Conyngham	D. & H. Coal Co.	West Pittston	Falling down shaft	7
1906	May 15	Shenandoah City	Philadelphia & Reading Coal & Iron Co.	Wilkes-Barre	Falling down shaft	10
	Aug. 6	Susquehanna No. 7	Susquehanna Collieries Co.	Shenandoah	Explosion of powder & dynamite	7
1907	Mar. 2	Holden	Delaware, Lackawanna & Western Railroad Co.	Nanticoke	Explosion of gas	6
1908	June 18	Johnson No. 1	Scranton Coal Co.	Taylor	Explosion of gas	7
	May 12	Mount Lookout	Temple Iron Co.	Priceburg	Explosion of gas	7
	May 13	Prospect	Lehigh Valley Coal Co.	Wyoming	Explosion of gas	12
	July 15	Williamstown	Summit Branch Mining Co.	Midvale	Fall of roof	5
	Aug. 28	Warrior Run	Lehigh Valley Coal Co.	Williamstown	Explosion of powder & dynamite	6
				Wilkes-Barre	Mine cars	6



## ACCIDENTS IN WHICH FIVE OR MORE PERSONS WERE KILLED, 1847 - 1967

Year	Date	Colliery	Company	Location of colliery	Cause of Accident	Number Killed
1909	Mar. 2	Pennsylvania No. 14	Pennsylvania Coal Co.	Pittston	Explosion of gas	8
	Nov. 9	Auchincloss	Glen Alden Coal Co.	Nanticoke	Mine fire	9
1910	Jan. 11	Nottingham	Lehigh & Wilkes-Barre Coal Co.	Plymouth	Explosion of gas	7
	Mar. 12	S. Wilkes-Barre No. 5	Lehigh & Wilkes-Barre Coal Co.	Wilkes-Barre	Explosion of gas	7
1911	Apr. 7	Pancoast	Price-Pancoast Coal Co.	Throop	Mine fire	72
	May 10	Plymouth No. 5	Delaware & Hudson Co.	Dorranctown	Suffocated by gas from under-ground fire	5
	May 27	Cameron	Mineral Railroad & Mining Co.	Shamokin	Explosion of gas	5
	Sep. 12	Marvine	Delaware & Hudson Co.	Scranton	Mine cars	5
	Oct. 3	Drifton No. 2	Coxe Bros. Co., Inc.	Freeland	Cave-in	5
1912	Jan. 9	Parrish	Parrish Coal Co.	Plymouth	Explosion of gas	6
1913	Aug. 2	East Brookside	Philadelphia & Reading Coal & Iron Co.	Tower City	Explosion of gas	20
1914	May 29	Maryd	Maryd Coal Co.	Maryd	Overwinding of cage	6
	Sep. 16	Lehigh No. 4	Lehigh Coal & Navigation Co.	Lansford	Explosion of gas	7
	Dec. 9	Diamond	Delaware, Lackawanna & Western Railroad Co.	Scranton	Falling down shaft	13
1915	Feb. 17	Prospect	Lehigh Valley Coal Co.	Wilkes-Barre	Explosion of gas	13
1916	Feb. 8	Lance No. 11	Lehigh & Wilkes-Barre Coal Co.	Plymouth	Explosion of gas	7
	Mar. 9	Hollenback No. 2	Lehigh & Wilkes-Barre Coal Co.	Wilkes-Barre	Explosion of gas	6
	Aug. 8	Woodward	Delaware, Lackawanna & Western Railroad Co.	Edwardsville	Explosion of gas	6
1919	June 5	Baltimore Tunnel	Hudson Coal Co.	Wilkes-Barre	Explosion of powder & dynamite	92
	July 8	Lansford	Lehigh Coal & Navigation Co.	Lansford	Explosion of gas	8
1921	Mar. 9	Rahn	Lehigh Coal & Navigation Co.	Seek	Explosion of gas	5
1922	Nov. 3	Eddy Creek	Hudson Coal Co.	Scranton	Premature blast	6
1923	Feb. 21	Alliance	Alliance Coal Mining Co.	Middleport	Explosion of gas	5
	June 26	Richards	Susquehanna Collieries Co.	Mount Carmel	Explosion of gas	5
	Dec. 8	Mount Jessup No. 2	Mount Jessup Coal Co.	Jessup	Fall of roof	5
1924	June 6	Loomis	Glen Alden Coal Co.	Nanticoke	Explosion of gas	14
1925	May 22	Woodward	Glen Alden Coal Co.	Edwardsville	Explosion of gas	7
	Aug. 3	Dorranctown	Lehigh Valley Coal Co.	Wilkes-Barre	Explosion of gas	10
1926	May 6	Randolph	So. Penn Collieries Co.	Port Carbon	Explosion of gas	5
	July 3	Pettebone	Glen Alden Coal Co.	Kingston	Explosion of gas	7
	Oct. 30	Susquehanna No. 7	Susquehanna Collieries Co.	Nanticoke	Explosion of gas	9
1927	May 26	Woodward	Glen Alden Coal Co.	Edwardsville	Fall of roof, followed by an explosion of gas	7
1928	May 25	Baltimore No. 5	Hudson Coal Co.	Wilkes-Barre	Explosion of gas	10
1930	Aug. 8	Gilberton	Philadelphia & Reading Coal & Iron Co.	Gilberton	Fall of roof	8
1931	May 29	Richards	Susquehanna Collieries Co.	Mount Carmel	Explosion of gas	5
1935	Jan. 21	Gilberton	Philadelphia & Reading Coal & Iron Co.	Gilberton	Explosion of gas	13
	May 7	S. Wilkes-Barre	Glen Alden Coal Co.	Wilkes-Barre	Piece of rock fell down shaft, struck cage	7

## ACCIDENTS IN WHICH FIVE OR MORE PERSONS WERE KILLED, 1847 - 1967

Year	Date	Colliery	Company	Location of colliery	Cause of Accident	Number Killed
1936	Aug. 24	Clear Spring	Sullivan Trail Coal Co.	West Pittston	Explosion of gas	5
1938	Apr. 27	St. Clair	St. Clair Coal Co.	St. Clair	Explosion of gas	8
	June 2	Volpe	Volpe Mining Co.	Pittstown Twp.	Explosion of gas	10
	Sep. 24	Primrose	M. & S. Coal Co.	Minersville	Explosion of gas	14
1943	Jan. 15	Nottingham	Glen Alden Coal Co.	Wilkes-Barre	Explosion of gas	15
1947	Apr. 10	Schooley	Knox Coal Co.	Exeter Boro.	Explosion of gas	10
	Dec. 11	Franklin	Lehigh Valley Coal Co.	Wilkes-Barre	Explosion of gas	8
	Mar. 29	Buttonwood	Glen Alden Coal Co.	Hanover Twp.	Explosion of gas	5
1951	Mar. 27	Holmes Slope	Cano & Martin, Inc.	Forrestville	Drown - blast blew through to old workings	5
1952	Mar. 27	Holmes Slope	Cano & Martin, Inc.	Forrestville	Drown - blast blew through to old workings	5
1959	Jan. 22	Ewen	Knox Coal Co.	Port Griffith	Drown - river broke into mine	12

**PRODUCTION  
TABLE**

		District 1 Production - net tons				Pounds				Fatal fatal		
Operators and Collieries	County	Shipped to market	Sold	Used at	Total	permis-	Pounds	Days	Empl-	Fatal	Non-	
		By : railroad	By : truck:	to : local : trade	for steam : and heat	production:	sible ex- : plosives : used	dynamite : used	worked	oyes	acci- : dents	acci- : dents
Airport Sand & Gravel Co.												
West Wyoming Pit	Luzerne	188	302	197	4	691 a	-	-	-	-	-	-
Altieri & Benzeleski												
Moosic Mountain Strip 117-R1	Lackawanna	469	53	544	-	1,066 b	850	200	74	4	-	-
Bliss Coal Co.												
Bliss Strip 35-3	Sullivan	-	-	34,171	-	34,171	192,000	2,200	293	8	-	-
Bliss Cleaning Plant	Sullivan	-	-	-	-	-	-	-	293	3	-	-
Total		-	-	34,171	-	34,171 c	192,000	2,200	11	-	-	-
Blue Coal Corporation												
Auchincloss Strip 30-41	Luzerne	1,487	667	1,079	1	3,234 d	10,995	-	79	*	-	-
Bliss Strip 30-45A	Luzerne	9,892	4,458	7,564	3	21,917 e	118,351	3,100	216	7	-	1
Bristol Strip 30-42	Luzerne	88	36	57	-	181 d	150	-	8	*	-	-
Huber Strip 30-49	Luzerne	10,808	4,852	7,845	1	23,506 d	14,200	1,200	109	8	-	-
Huber Strip 30-34A	Luzerne	8,298	3,736	6,290	57	18,381 f	22,640	1,650	270	*	-	-
Huber Strip 30-40A4	Luzerne	15,166	6,809	11,008	3	32,986 d	23,500	1,600	270	8	-	-
Loomis Park Strip 30-31A4	Luzerne	12,914	5,798	9,373	3	28,088 d	20,400	1,450	205	4	-	-
Loree Strip 30-2A3	Luzerne	7,529	3,380	5,464	1	16,374 d	44,880	1,050	167	18	-	-
Middle Road Strip 30-37A	Luzerne	997	447	723	-	2,167 d	3,750	650	96	*	-	-
No. 2 1/2 Slope 30-38R	Luzerne	7,454	3,345	5,411	2	16,212 d	55,127	-	302	12	-	-
Sugar Notch Strip 30-48	Luzerne	23,208	10,419	16,884	4	50,515 d	100,800	9,743	90	19	-	-
Sugar Notch Strip 30-13A3	Luzerne	4,969	2,231	3,607	1	10,808 d	36,747	-	280	*	-	-
Sugar Notch Strip 30-50	Luzerne	56	26	36	-	118 d	-	-	20	7	-	-
Truesdale Strip 30-44	Luzerne	429	193	312	-	934 d	5,050	850	16	*	-	-
Truesdale Strip 30-43	Luzerne	5,134	2,319	4,068	1	11,522 g	61,150	1,150	216	8	-	-
Wanamie Strip 30-23R3	Luzerne	23,125	10,383	16,785	5	50,298 d	171,413	-	294	15	-	-
Wanamie Strip 30-17	Luzerne	5,655	2,539	4,104	1	12,299 h	-	-	-	-	-	-
Wanamie Strip 30-21A5	Luzerne	16,557	7,433	12,017	4	36,011 d	122,437	-	294	13	-	-
Wanamie Strip 30-6R3	Luzerne	680	305	494	-	1,479 d	5,028	-	53	3	-	-
Wanamie Strip 30-47	Luzerne	27,807	12,484	20,182	3	60,476 d	123,200	11,907	89	26	-	1
Warrior Run Strip 30-36A	Luzerne	3,590	1,612	2,606	1	7,809 d	14,800	850	158	*	-	-
Total		185,843	83,472	135,909	91	405,315	954,618	35,200	148	-	-	2
C. & S. Excavating Co.												
Grassy Island Strip 78-6A	Lackawanna	4,527	514	5,278	-	10,319 i	40,000	1,300	93	*	-	-
Grassy Island Strip 78-7	Lackawanna	704	1,041	1,316	-	3,061 j	20,000	700	169	8	-	-
Total		5,231	1,555	6,594	-	13,380	60,000	2,000	8	-	-	-
Carbondale Coal Co.												
Eddy Creek Strip 64-R2	Lackawanna	28,335	12,984	23,344	6	64,669 k	204,500	14,600	210	10	-	-
Mine Fire Strip 64-1R4	Lackawanna	34,384	39,613	52,598	7	126,602 l	385,900	26,440	300	114	-	4
No. 1 Cleaning Plant	Lackawanna	-	-	-	-	-	-	-	300	5	-	1
No. 2 Cleaning Plant	Lackawanna	-	-	-	-	-	-	-	77	*	-	1
Total		62,719	52,597	75,942	13	191,271	590,400	41,040	129	-	-	6



District 2

Operators and Collieries		County	Production - net tons				Pounds permiss- sible ex- plosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non- fatal acci- dents
			Shipped to market	Sold to local	Used at colliery for steam and heat	Total production						
			By railroad	By truck	to trade							
Jeddo-Highland Coal Co. (Continued)												
J-43 Strip	22-8	Luzerne	155,766	126,092	33,770	2,299	317,927 i	-	8,376,063	351	66	-
J-44 Strip	22-8	Luzerne	204,933	196,532	41,266	3,576	446,307 j	-		353	74	1
J-45 Strip	22-8	Luzerne	10,847	12,943	1,922	235	25,947 k	-		353	74	2
Total			373,245	336,617	77,360	6,129	793,351	-	8,376,063	88	19	-
Kassa Coal Co.												
Wharton-Gamma Strip	44-1	Carbon	-	410	90	-	500 l	-	2,000	44	2	-
Lehigh Valley Anthracite, Inc.												
Stockton Basin Strip	16-8	Luzerne	19,606	24,494	3,360	445	47,905 m	-	928,647	134	15	6
Meadow Coal & Excavating Co.												
Iykens Strip	89-3	Schuylkill	1,098	769	1,459	-	3,326 n	-	1,200	158	6	-
Humboldt Buck Mt. Strip	89-4	Luzerne	-	976	3,902	-	4,878 o	-		112	6	-
Total			1,098	1,745	5,361	-	8,204	-	1,200		6	-
District Total			1,034,475	639,689	187,068	7,455	1,868,687	-	15,183,058	243	663	36

- NOTE: \* Men transferred from Stripping No. 33-12.
- (a) 17,653 tons prepared at Blaschak Breaker - District 26.
  - (b) 4,342 tons prepared at Honeybrook Breaker - District 15.
  - (c) All coal prepared at Gowen Breaker - District 15.
  - (d) All coal prepared at Greenwood Breaker - District 18.
  - (e) All coal prepared at Honeybrook Breaker - District 15.
  - (f) 10,599 tons prepared at Beaverbrook Breaker - District 15.
  - (g) 65,059 tons prepared at Buckley Breaker - District 15.
  - (h) All coal prepared at Buckley Breaker - District 15.
  - (i) 1,125 tons prepared at Honeybrook Breaker - District 15.
  - (j) 1,923 tons prepared at Buckley Breaker - District 15.
  - (k) All coal prepared at Jeddo No. 7 Breaker - District 15.
  - (l) 202,341 tons prepared at Jeddo No. 7 Breaker - District 15.
  - (m) 115,586 tons prepared at Hazleton Shaft Breaker - District 15.
  - (n) 175,719 tons prepared at Jeddo No. 7 Breaker - District 15.
  - (o) 270,588 tons prepared at Hazleton Shaft Breaker - District 15.
  - (p) 1,795 tons prepared at Jeddo No. 7 Breaker - District 15.
  - (q) 24,152 tons prepared at Hazleton Shaft Breaker - District 15.
  - (r) All coal prepared at Kassa Breaker - District 13.
  - (s) All coal prepared at Hazleton Shaft Breaker - District 15.
  - (t) 1,639 tons prepared at Honeybrook Breaker - District 15.
  - (u) 1,687 tons prepared at Wesner Breaker - District 15.
  - (v) All coal prepared at Wesner Breaker - District 15.

District 3

Operators and Collieries		County	Production - net tons				Pounds permiss- sible ex- plosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non- fatal acci- dents
			Shipped to market	Sold to local	Used at colliery for steam and heat	Total production						
			By railroad	By truck	to trade							
Bridy, Incorporated												
Burnside Strip *	31-6	Northumberland	-	99	-	-	99 a	-	-	15	2	-
Buck Coal Co.												
Aristes Strip	49-1	Columbia	-	7,682	-	-	7,682 b	-	2,950	280	2	-
Capparell Stripping & Construction Co.												
Kohinoor Strip	19-1	Schuylkill	-	38,457	-	-	38,457	-	307,500	206	56	1
Locust Mountain Strip	19-2	Schuylkill	-	11,238	-	-	11,238	-	71,600	113	20	-
Total			-	49,695	-	-	49,695 c	-	379,100	76	76	1
Conyngham Contracting Co., Inc.												
Germantown Strip *	91-4	Columbia	-	2,212	-	-	2,212	-	36,000	63	12	-

District 3

Operators and Collieries		County	Production - net tons				Pounds permiss- sible ex- plosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non- fatal acci- dents
			Shipped to market	Sold to local	Used at colliery for steam and heat	Total production						
			By railroad	By truck	to trade							
Conyngham Contracting Co., Inc. (Continued)												
Germantown Strip *	91-5	Columbia	-	8,694	-	-	8,694	-	7,000	129	-	-
Potts Strip	91-6	Columbia	-	9,419	-	-	9,419	-	10,000	188	-	-
Potts Strip	91-7	Columbia	-	18,852	-	-	18,852	-	36,000	191	12	-
Alaska Strip	91-8	Northumberland	-	3,150	-	-	3,150	-	34,000	42	16	-
Total			-	42,327	-	-	42,327 d	-	123,000	40	40	-
Folger & Chapleski												
Henry Clay Strip	119-1	Northumberland	-	5,000	-	-	5,000	-	13,825	285	2	-
Excelsior Strip	119-2	Northumberland	-	3,695	-	-	3,695	-	285	285	2	-
Total			-	8,695	-	-	8,695 e	-	13,825	4	4	-
Gilberton Coal Co.												
Hunter Tunnel Strip *	39-2	Schuylkill	-	16,417	-	-	16,417	-	120,618	138	11	-
Bast Strip *	39-3	Schuylkill	-	97,751	-	-	97,751	-	200,000	202	70	1
Total			-	114,168	-	-	114,168 f	-	320,618	81	81	1
Glenn Brass Coal Co.												
West Cameron Strip	106-5	Northumberland	-	1,586	-	-	1,586 g	-	550	126	2	-
Glosek Brothers Coal Sales, Inc.												
Burnside Strip	45-8	Northumberland	-	2,440	-	-	2,440	-	2,200	175	3	-
Big Mountain Strip	45-9	Northumberland	-	560 (stock)	-	-	560	-	62	62	-	-
Total			-	2,440	-	-	2,440 h	-	2,200	3	3	-
Howells, T. S. & Olaf, S. Stripping Co.												
Hickory Ridge Strip *	4-6	Northumberland	-	2,752	-	-	2,752	-	-	159	2	-
Marion Heights Strip	4-8	Northumberland	-	809	-	-	809	-	-	35	-	-
Total			-	3,561	-	-	3,561 b	-	-	2	2	-
Jet Coal Co.												
Richards Strip	3-5	Northumberland	-	2,300	-	-	2,300	-	-	150	2	-
Richards Strip	3-6	Northumberland	-	2,450	-	-	2,450	-	-	140	2	-
Total			-	4,750	-	-	4,750 b	-	-	4	4	-
Kerris & Helfrick, Inc.												
Morris Ridge Strip	7-1	Columbia	-	56,215	-	-	56,215	-	-	251	9	-
Stuartsville Strip *	7-4	Northumberland	-	73,922	-	-	73,922	-	20,000	229	12	1
Edgewood Strip	7-11	Northumberland	-	62,785	-	-	62,785	-	15,696	241	9	-
Maysville Strip	7-13	Northumberland	-	7,568	-	-	7,568	-	-	37	9	-
Maysville Strip *	7-14	Northumberland	-	11,359	-	-	11,359	-	-	81	-	-
Maysville Strip	7-15	Northumberland	-	8,394	-	-	8,394	-	-	83	-	1
Stuartsville Strip	7-16	Northumberland	-	14,302	-	-	14,302	-	10,726	41	7	-
Total			-	234,545	-	-	234,545 i	-	46,422	46	46	2
Lehigh Valley Anthracite, Inc.												
Continental Strip	16-9	Columbia	16,926	7,157	3,007	74	27,164	-	327,701	298	22	2
Germantown Strip	16-12	Columbia	83,162	35,166	14,774	364	133,466	-	1,743,793	296	76	1



District 4

Operators and Collieries			Production - net tons					Pounds permisible explosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non- fatal acci- dents
County	By railroad	By truck:	Sold to local trade	Used at colliery for steam and heat	Total production:								
Blue Bell Enterprises, Inc.													
New Philadelphia Strip C.L.S. Coal Co.	14-2	Schuylkill	6,212	7,320	6,130	82	19,744 c	68,000	1,490	242	5	-	-
Tracy Strip	125-1	Schuylkill	178	11,798	422	-	12,398 d	-	-	182	4	-	-
Dando & Troup Coal Co. Scott Strip	34-2	Schuylkill	1,620	2,240	5,550	56	9,466 e	7,500	-	246	2	-	-
Kerrigan Coal Co., Inc., Paul West Gold Strip	102-5	Lebanon	-	2,360	340	-	2,700 f	-	-	18	5	-	-
Kocher Coal Co., Leon E. Sherman Mountain Strip	90-6	Schuylkill	-	-	-	-	1,772	-	-	28	4	-	-
Porter Tunnel Strip	90-7	Schuylkill	-	-	-	-	30,103	552,295	-	70	10	-	-
Porter Tunnel Strip	90-8	Schuylkill	-	-	-	-	44,120	-	-	85	12	-	-
Total			27,212	36,418	12,220	145	75,995 g	552,295	-	26	-	-	-
Krell Coal Co., Philip Orchard Strip	61-3	Schuylkill	-	-	-	-	-	-	-	40	1	-	-
North East Mining Co. North East Strip	130-1	Schuylkill	4,820	5,412	13,320	74	23,626 h	-	-	172	5	-	-
Phoenix Contracting Co. Phoenix Strip	131-1	Schuylkill	-	-	-	-	-	-	-	40	3	-	-
Reading Anthracite Co. Mount Laffee P-49 Strip	23-1R	Schuylkill	9,071	3,145	6,144	-	18,360	-	-	149	1	-	-
Oak Hill P-47 Strip	23-3	Schuylkill	-	-	-	-	-	-	-	297	1	-	-
Wadesville P-33 Strip	23-4	Schuylkill	35,974	12,470	24,366	-	72,810	3,040,094	-	242	56	-	9
St. Clair P-48 Strip	23-5	Schuylkill	121,139	41,991	82,051	-	245,181	4,904,426	2,500	289	103	-	8
St. Clair P-44 Strip	23-6	Schuylkill	-	-	-	-	-	-	-	297	1	-	-
St. Clair P-44A Strip	23-7	Schuylkill	-	-	-	-	-	-	-	25	1	-	-
Buck Run P-45 Strip	23-11RA	Schuylkill	5,502	1,907	3,726	-	11,135	85,768	-	75	28	-	-
Pine Knot P-39 Strip	23-14	Schuylkill	-	-	-	-	-	-	-	297	1	-	-
Buck Run P-45A Strip	23-15	Schuylkill	46,288	16,046	31,352	-	93,686	2,230,731	-	289	28	-	5
Potts-Bannon P-50 Strip	23-16	Schuylkill	98,939	34,297	67,013	-	200,249	653,791	-	287	22	-	1
Total			316,913	109,856	214,652	-	641,424 i	10,914,810	2,500	242	-	-	23
Schuylkill Contracting Co. Mammoth & Holmes Strip	36-3	Schuylkill	-	-	-	-	1,985	267,420	-	28	7	-	1
Buck Run Strip	36-4	Schuylkill	-	-	-	-	23,929	150,530	-	140	20	-	-
Glendower Strip	36-5	Schuylkill	-	-	-	-	13,091	-	-	77	16	-	-
Total			14,960	13,912	10,133	-	39,005 j	417,950	-	43	-	-	1
Swatara Coal Co. Primrose Basin Strip	70-1R	Schuylkill	-	-	-	-	2,822	-	-	192	2	-	-
Mammoth Strip	70-2	Schuylkill	-	-	-	-	27,864	92,476	1,714	257	16	-	-
Swatara Falls Mammoth Strip	70-3	Schuylkill	-	-	-	-	8,958	26,501	427	162	8	-	1

District 4

Operators and Collieries			Production - net tons					Pounds permisible explosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non- fatal acci- dents
County	By railroad	By truck:	Sold to local trade	Used at colliery for steam and heat	Total production:								
Swatara Coal Co. (Continued) Primrose Strip	70-4	Schuylkill	-	-	-	-	-	-	-	60	2	-	1
Total			21,786	10,218	7,514	126	39,644 k	118,977	2,141	28	-	-	2
Tropp Stripping Co., Lawrence Tropp Strip	1-1(A-1)	Schuylkill	4,120	14,230	3,941	32	22,323 l	-	-	110	3	-	-
District Total			399,491	216,208	280,480	558	896,737	12,079,532	6,131	207	375	-	26

- NOTE: (a) 3,628 tons prepared at Black Heath Breaker - District 19.  
 1,220 tons prepared at Live Oak Breaker - District 19.  
 321 tons prepared at B. & N. Breaker - District 18.  
 358 tons prepared at J. & E. Breaker - District 18.  
 89 tons prepared at Glen Worth Breaker - District 19.  
 3,729 tons prepared at Diamond Breaker - District 20.  
 (b) All coal prepared at Starwood Breaker - District 26.  
 (c) 5,593 tons prepared at D. & Z. Breaker - District 24.  
 5,442 tons prepared at Silver Creek Breaker - District 18.  
 998 tons prepared at B. & N. Breaker - District 18.  
 7,876 tons prepared at Diamond Breaker - District 20.  
 135 tons prepared at Schneck's Breaker - District 30.  
 (d) All coal prepared at Maple Spring Breaker - District 19.  
 (e) 2,440 tons prepared at Minersville Breaker - District 19.  
 2,300 tons prepared at Franklin Breaker - District 30.  
 2,800 tons prepared at Legal Breaker - District 16.  
 1,400 tons prepared at Live Oak Breaker - District 19.  
 446 tons prepared at K. & P. Breaker - District 19.  
 110 tons prepared at Glen Worth Breaker - District 19.

- (f) All coal prepared at Kerrigan Breaker - District 12.  
 (g) All coal prepared at Kocher Breaker - District 30.  
 (h) 12,257 tons prepared at Black Heath Breaker - Dist. 19  
 5,889 tons prepared at J. & E. Breaker - District 18.  
 3,561 tons prepared at Franklin Breaker - District 30.  
 1,033 tons prepared at Silver Creek Breaker - Dist. 18.  
 886 tons prepared at Minersville Breaker - District 19.  
 (i) All coal prepared at New St. Nicholas Breaker - Dist. 19.  
 (j) All coal prepared at Marlin Breaker - District 19.  
 (k) All coal prepared at Swatara Breaker - District 21.  
 (l) 20,120 tons prepared at J. & E. Breaker - District 18.  
 2,203 tons prepared at Schneck's Breaker - District 30.

District 10

Ace Anthracite, Inc. Eddy Creek Bank	Bk	Lackawanna	-	-	2,300	100	2,400	-	-	290	1	-	-
Ace Cleaning Plant	B	Lackawanna	-	-	-	-	-	-	-	290	3	-	-
Total			-	-	2,300	100	2,400 a	-	-	-	4	-	-
Ace Coal Co. Ace Breaker	B	Lackawanna	-	-	-	-	-	-	-	97	9	-	1
Blue Coal Corp. Bag Plant		Lackawanna	-	-	-	-	-	-	-	258	13	-	-
Coalbrook Iron & Metals Coalbrook Bank	Bk	Lackawanna	1,180	7,673	2,379	-	11,232 b	-	-	92	5	-	-
Coalbrook Sales Co. Cedar Avenue Mine Fire	Bk	Lackawanna	49	315	47	-	411 b	-	Purchased U. S. Government	-	-	-	-





Operators and Collieries		County	District 11 Production - net tons				Total production:	Pounds permis- sible ex- plosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non- fatal acci- dents
			Shipped to market		Used at colliery								
			By railroad	By truck	Sold to local trade	Used at colliery for steam and heat							
NOTE: (a) All coal shipped unprepared to United Gas Improvement Co. Hunlock Plant. (h) 1,138 tons prepared at Ace Breaker - District 10.													
(b) 39,676 tons shipped unprepared to Nanticoke Power Plant. 19,136 tons prepared at Huber Breaker - District 13. (i) 3,109 tons prepared at Penbrook Breaker - District 10.													
(c) All coal prepared at Huber Breaker - District 13. 18,039 tons prepared at Huber Breaker - District 13.													
(d) Work ceased March 1967 and mine was sealed May 9, 1967. 380 tons prepared at Loree Breaker - District 13.													
(e) Work ceased November 15, 1967. (j) All coal shipped unprepared to Merck Chemical Co. Breaker idle during 1967.													
(f) Operated by Kingston Mining Corp. until September 30, 1967 as contractor, and from October 1, 1967 operated by Ciarafoni Coal Co., Inc. as sub-contractor.													
(g) 550,290 tons prepared at Glen Lyon Breaker.													
10,221 tons prepared at Ace Breaker - District 10.													
18,276 tons prepared at Penbrook Breaker - District 10.													
42,244 tons prepared at Bel Air Breaker - District 13.													
21,248 tons prepared at Harry E. Breaker - District 13.													
11,264 tons prepared at Huber Breaker - District 13.													
843 tons prepared at Loree Breaker - District 13.													
4,091 tons prepared at Kassa Breaker - District 13.													

Operators and Collieries		County	District 12 Production - net tons				Total production:	Pounds permis- sible ex- plosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non- fatal acci- dents
			Shipped to market		Used at colliery								
			By railroad	By truck	Sold to local trade	Used at colliery for steam and heat							
A. & J. Coal Co.	DM	Schuylkill	4,207	337	9,249	9	13,802 a	6,600	240	231	9	-	-
Middle Split Slope	DM	Schuylkill	-	-	2,945	30	2,975 b	1,400	-	228	4	-	-
A. & P. Coal Co.	DM	Schuylkill	-	-	5,815	58	5,873 b	2,450	200	231	4	-	-
L.V. No. 6 Vein Slope	DM	Schuylkill	-	623	701	7	1,331 c	575	-	132	3	-	-
Acme Coal Co.	DM	Schuylkill	5,215	6,801	2,596	84	14,696 d	5,950	400	202	11	-	-
L.V. No. 5 Vein Slope	IM	Dauphin	-	-	9	1	10 b	10	-	2	2	-	-
B. & P. Coal Co.	bk	Dauphin	-	9,155	-	-	9,155 e	-	-	246	2	-	-
Buck Mountain Slope	Ramp	Dauphin	-	-	-	-	-	-	-	257	1	-	-
Clark Coal Co.	bk	Dauphin	120,464	-	-	-	120,464 f	-	-	168	7	-	-
No. 2 Slope	DM	Schuylkill	8,633	20,597	5,208	159	34,597 g	19,050	550	299	13	-	-
Deeter Coal Co.	DM	Schuylkill	264	5,585	898	13	6,760 h	3,000	1,000	279	5	-	-
No. 6 Vein Slope													
Elizabethville Coal Co.													
Elizabethville Bank													
Fronk, George													
Coal Sales													
Gangloff Brothers													
Williamstown Silt Bank													
Harner Coal Co.													
Skidmore Slope													
Hornberger Coal Co.													
Buck Mountain Slope													

Operators and Collieries		County	District 12 Production - net tons				Total production:	Pounds permis- sible ex- plosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non- fatal acci- dents
			Shipped to market		Used at colliery								
			By railroad	By truck	Sold to local trade	Used at colliery for steam and heat							
Kerrigan Coal Co., Inc.													
Kerrigan Breaker	BP	Dauphin	-	-	-	-	*	-	-	8	8	-	-
Kintzel Brothers Coal Co.	DM	Schuylkill	1,506	1,791	2,343	8	5,648 i	1,950	300	281	4	-	-
L.V. No. 6 Vein Slope	DM	Schuylkill	562	6,151	1,108	22	7,843 j	3,100	500	250	4	-	-
Koppenhaver Coal Co.	DM	Schuylkill	-	-	2,379	24	2,403 b	975	75	276	2	-	-
Buck Mountain Slope	DM	Schuylkill	-	-	288	2	290 k	100	-	23	5	-	-
L.V. No. 5 Vein Slope	DM	Schuylkill	116	1,215	167	3	1,501 l	650	50	244	3	-	-
Lehman Coal Co., Mervin	DM	Schuylkill	-	692	780	7	1,479 b	575	-	147	3	-	1
L.V. No. 6 Vein Slope	DM	Schuylkill	473	2,780	3,999	29	7,281 m	2,650	100	215	5	-	-
M.A.D. Coal Co.	DM	Schuylkill	-	100	713	9	822 n	350	200	141	3	-	-
L.V. No. 6 Vein Slope	DM	Schuylkill	-	8,622	495	46	9,163 o	-	-	281	3	-	-
Mace Coal Co., James	BP	Dauphin	-	-	495	-	-	-	-	281	2	-	-
White's Vein Slope No. 2	DM	Schuylkill	-	6,622	495	46	7,163 o	-	-	5	-	-	-
Marchuk & Son Coal Co.	DM	Schuylkill	3,618	5,629	8,990	40	18,277 p	8,050	100	263	8	-	1
No. 9 Vein Slope	DM	Dauphin	-	-	-	-	-	-	-	303	15	-	-
Meadowbrook Coal Co.	DM	Schuylkill	116	1,560	262	1	1,939 q	800	50	204	3	-	-
Meadowbrook Bank	DM	Dauphin	7	1,913	1,343	19	3,282 r	1,200	100	225	3	-	-
Meadowbrook Washery	DM	Dauphin	218	2,814	573	16	3,621 s	1,400	100	59	4	-	-
Total	BP	Dauphin	-	527	4,623	47	5,197 t	2,050	400	11	-	-	-
No. 4 Coal Co.	DM	Schuylkill	-	-	3,359	34	3,393	1,200	300	204	3	-	-
White's Vein Slope	DM	Schuylkill	-	527	1,068	11	1,606	750	100	121	3	-	-
Pine Creek Coal Co.	DM	Schuylkill	-	-	196	2	198	100	-	36	3	-	-
Pine Creek Breaker	DM	Schuylkill	-	-	-	-	-	-	-	2	-	-	-
Reiner Coal Co.	DM	Dauphin	-	-	-	-	-	-	-	257	2	-	-
No. 3 Vein Slope	DM	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
S. & K. Coal Co.	DM	Dauphin	-	-	-	-	-	-	-	-	-	-	-
Buck Mountain Slope	DM	Dauphin	-	-	-	-	-	-	-	-	-	-	-
S. & S. Coal Co.	DM	Dauphin	-	-	-	-	-	-	-	-	-	-	-
Skidmore Slope	DM	Dauphin	-	-	-	-	-	-	-	-	-	-	-
Shomper Coal Co.	BP	Dauphin	-	-	-	-	-	-	-	-	-	-	-
L.V. No. 6 Vein Slope No. 1	DM	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
L.V. No. 6 Vein Slope No. 2	DM	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
L.V. No. 3 Vein Slope No. 3	DM	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
Shomper Breaker	BP	Dauphin	-	-	-	-	-	-	-	-	-	-	-
Total	BP	Dauphin	-	527	4,623	47	5,197 t	2,050	400	11	-	-	-
Smeltz Coal Co.	DM	Dauphin	4	5,559	838	31	6,432 u	2,500	50	251	3	-	-
No. 7 Vein Slope	DM	Dauphin	-	-	-	-	-	-	-	46	4	-	-
Stonehill Coal Co.	BP	Dauphin	-	-	-	-	-	-	-	-	-	-	-
Stonehill Breaker	BP	Dauphin	-	-	-	-	-	-	-	-	-	-	-

Operators and Collieries		County	District 12 Production - net tons				Pounds : permis- sible ex- plosives	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non- fatal acci- dents		
			Shipped to market :		Sold :								Used at colliery for steam and heat	Total production:
			By railroad	By truck:	By local trade	to colliery for steam and heat								
Strohecker Coal Co. Strohecker Breaker	BP	Dauphin	-	-	-	-	-	293	8	-	-			
Underkoffler Coal Co. Buck Mountain Slope	IM	Dauphin	-	-	2,743	28	2,771	1,200	255	3	-			
Underkoffler Breaker	BP	Dauphin	-	-	-	-	-	248	24	-	-			
<b>Total</b>			-	-	2,743	28	2,771 b	1,200	100	27	-			
Valley Construction Co. L.V. No. 6 Vein Slope	IM	Dauphin	-	1,877	-	19	1,896 w	650	50	141	4			
White's Vein Coal Co. White's Vein Slope	DM	Schuylkill	550	102	1,029	1	1,682 x	575	100	196	3			
Wolfe Coal Co. No. 7 Vein Slope	IM	Dauphin	-	-	252	3	255 b	100	-	89	2			
<b>District Total</b>			145,953	84,430	60,346	716	291,445	67,910	4,665	211	198			

- NOTE: (a) 12,945 tons prepared at Penag Breaker - District 30.  
857 tons prepared at Underkoffler Breaker.  
Ceased operation in October 1967.
- (b) All coal prepared at Underkoffler Breaker.
- (c) All coal prepared at Strohecker Breaker.
- (d) 14,137 tons prepared at Kocher Breaker - District 16.  
559 tons prepared at Penag Breaker - District 30.  
Ceased operation in October 1967.
- (e) All coal prepared at Elizabethville Washery.
- (f) All unprepared silt shipped to P. P. & L. Co., Sunbury, Pa.
- (g) 22,451 tons prepared at Kocher Breaker - District 16.  
9,550 tons prepared at Legal Breaker - District 16.  
2,580 tons prepared at Superior Breaker - District 16.  
16 tons prepared at Penag Breaker - District 30.
- (h) 4,118 tons prepared at Legal Breaker - District 16.  
2,522 tons prepared at Oakwood Breaker - District 30.  
120 tons prepared at Donaldson Breaker - District 30.
- (i) 3,278 tons prepared at Penag Breaker - District 30.  
2,370 tons prepared at Schneck Breaker - District 30.
- (j) 7,287 tons prepared at Legal Breaker - District 16.  
556 tons prepared at Kocher Breaker - District 16.
- (k) 183 tons prepared at Underkoffler Breaker.  
107 tons prepared at Kerrigan Breaker.  
Ceased operation February 1967.
- (l) 875 tons prepared at Oakwood Breaker - District 30.  
626 tons prepared at Schneck Breaker - District 30.
- (m) 5,746 tons prepared at Strohecker Breaker.  
83 tons prepared at Pine Creek Breaker.  
1,441 tons prepared at Penag Breaker - District 30.  
11 tons prepared at Kocher Breaker - District 16.  
Formerly operated by K.E.W. Coal Co. until March, 1967 who produced 1,416 tons, worked 49 days, 5 employees, used 550 pounds of permissible explosives.
- (n) 694 tons prepared at Underkoffler Breaker.  
78 tons prepared at Fronk Ramp.  
50 tons prepared at Strohecker Breaker.
- (o) All coal prepared at Meadowbrook Washery.  
1,203 tons prepared at Strohecker Breaker.
- (p) 7,747 tons prepared at Penag Breaker - District 30.  
2,279 tons prepared at Pine Creek Breaker.  
546 tons prepared at Superior Breaker - District 16.  
678 tons prepared at Legal Breaker - District 16.  
2,903 tons prepared at Kocher Breaker - District 16.  
2,921 tons prepared at Echo Breaker - District 21.
- (q) 1,908 tons prepared at Superior Breaker - District 16.  
20 tons prepared at Underkoffler Breaker.  
11 tons prepared at Pine Creek Breaker.
- (r) 3,174 tons prepared at Pine Creek Breaker.  
108 tons prepared at Superior Breaker - District 16.
- (s) 1,905 tons prepared at Franklin Breaker - District 30.  
1,172 tons prepared at Schneck Breaker - District 30.  
544 tons prepared at Pine Creek Breaker.

Operators and Collieries		County	District 12 Production - net tons				Pounds : permis- sible ex- plosives	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non- fatal acci- dents		
			Shipped to market :		Sold :								Used at colliery for steam and heat	Total production:
			By railroad	By truck:	By local trade	to colliery for steam and heat								
(t) 1,127 tons prepared at Strohecker Breaker. 379 tons prepared at Stonehill Breaker. 3,691 tons prepared at Shomper Breaker.														
(u) 6,303 tons prepared at Franklin Breaker - District 30. 117 tons prepared at Hillside Breaker - District 21. 12 tons prepared at Kocher Breaker - District 16.														
(v) Ceased operation January 1967.														
(w) All coal prepared at Fronk Coal Sales Ramp.														
(x) 1,552 tons prepared at Penag Breaker - District 30. 130 tons prepared at Kocher Breaker - District 16. * Ceased operation in January 1967.														

Operators and Collieries		County	District 13				Pounds : permis- sible ex- plosives	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non- fatal acci- dents		
			Shipped to market :		Sold :								Used at colliery for steam and heat	Total production:
			By railroad	By truck:	By local trade	to colliery for steam and heat								
Bartoli Construction Co., Gene	bk	Luzerne	262	94	637	2	995 a	-	-	48	2	-		
Stanton Colliery Bank										237	60	7		
Blue Coal Corporation	B	Luzerne	-	-	-	-	-	-	-	211	470	48		
Huber Breaker	DM	Luzerne	109,132	48,997	79,207	24	237,360 b	273,775	-	40	aa	-		
Huber Ashley Mines		Luzerne	-	-	-	-	-	-	-	44	29	1		
Huber Shops & General	B	Luzerne	-	-	-	-	-	-	-	83	4	-		
Loree Breaker	bk	Luzerne	66	22,473	450	73	23,062 c	-	-	186	8	-		
Loree Silt Bank	bk	Luzerne	-	63,252	-	-	63,252 d	-	-	32	3	-		
No. 10 Road Bank	bk	Luzerne	-	-	-	449	20,701 e	-	-	-	-	-		
Pine Ridge Bank	bk	Luzerne	14,113	6,109	-	-	20,701 e	-	-	-	-	-		
<b>Total</b>			123,341	110,831	79,657	546	344,375	273,775	-	-	574	56		
C.B.M. Coal Co.		Luzerne	-	-	-	-	-	-	-	281	2	-		
Maintenance Shops		Luzerne	510	-	345	-	885 f	-	-	89	2	-		
Taylor Bank	bk	Luzerne	553	-	1,531	42	2,126 g	-	-	-	-	-		
Woodward Bank	bk	Luzerne	-	-	1,876	42	3,011	-	-	-	4	-		
<b>Total</b>			1,093	-	1,876	42	3,011	-	-	-	-	-		
Duryea Coal Sales Co. Bel Air Breaker	B	Luzerne	-	-	-	-	- h	-	-	148	13	-		
Giovannini, Joseph	bk	Lackawanna	575	78	-	-	653 i	-	-	67	2	-		
Storrs Bank														
Houston City, Inc. Hillside Bank	bk	Luzerne	299	-	-	-	299 j	-	-	5	2	-		
Lafin Heights Coal Co.	bk	Luzerne	-	13,795	-	-	13,795	-	-	170	4	-		
No. 14 Colliery Bank	bk	Luzerne	-	2,500	-	-	2,500	-	-	20	4	-		
Mount Lookout Bank	bk	Luzerne	-	16,295	-	-	16,295 k	-	-	-	8	-		
<b>Total</b>			-	39,400	-	-	39,400 k 1	-	-	137	bb	-		
Lear Coal Co. Pine Ridge Bank	bk	Luzerne	-	-	-	-	-	-	-	360	2	-		
Lehigh Valley Anthracite, Inc.	BP	Luzerne	-	-	-	-	-	-	-	114	30	2		
Franklin Cleaning Plant	B	Luzerne	-	-	-	-	-	-	-	125	6	-		
Harry E. Breaker	BP	Luzerne	-	-	-	-	-	-	-	130	4	-		
Prospect Cleaning Plant	bk	Luzerne	6,498	6,836	10,468	152	23,954	-	-	-	-	-		
Prospect Bank														

		District 13 Production - net tons				Pounds				Fatal fatal		
Operators and Collieries	County	Shipped to market		Used at		Total	permis- sible ex- plosives used	Pounds dynamite used	Days worked	Empl- oves	acci- dents	Non- fatal acci- dents
		By railroad	By truck	to local trade	to colliery for steam and heat							
Lehigh Valley Anthracite, Inc. (Continued)												
Sullivan Trail Breaker	B Luzerne	-	-	-	-	-	-	-	168	3	-	-
Total		6,498	6,836	10,468	152	23,954	m	-	-	45	-	2
Martinielli, Mathew	bk Lackawanna	732	4,942	458	-	6,132	n	-	-	69	4	-
Archbald Banks	bk Luzerne	877	1,980	585	-	3,442	o	-	-	69	4	-
Pittston Railroad Fill Bank	bk Luzerne	1,609	5,922	1,043	-	9,574		-	-	8	-	-
Total		-	-	-	-	-	-	-	176	7	-	-
Meg Coal Co.	bk Luzerne	258	662	1,666	-	2,586	p	-	-	25	1	-
Leadville Shaft Bank	bk Luzerne	-	-	-	-	-	-	-	176	7	-	-
Moffat Coal Co., Inc.	DM Lackawanna	-	-	-	-	-	-	-	283	12	-	-
190 Slope *	DM Lackawanna	-	-	-	-	-	-	-	-	-	-	-
Shops & General		-	-	-	-	-	-	-	-	19	-	-
Total		-	-	-	-	-	-	-	-	-	-	-
Moffat Premium Anthracite, Inc.												
Taylor Breaker	B Lackawanna	-	-	-	-	-	-	-	146	70	-	1
Mountain Coal Co.	IM Luzerne	2,016	3,247	2,121	47	7,431	m	8,325	300	201	13	-
No. 32 Slope	bk Lackawanna	865	-	1,482	-	2,347	q	-	-	36	3	-
N. & R. Coal Co.	bk Lackawanna	300	562	391	-	1,253	r	-	-	60	2	-
Old Forge Bank	B Lackawanna	-	-	-	-	-	-	-	-	125	1	-
Oliver, Carl	bk Lackawanna	5,371	186	3,248	-	8,805	f	-	-	12	10	-
Johnson Bank	bk Lackawanna	1,131	13,518	2,366	-	17,015	s	-	-	114	6	-
O'Toole, John F.	bk Lackawanna	-	100,687	-	-	100,687	t	-	-	197	8	-
O'Toole Cleaning Plant	bk Lackawanna	-	26,388	-	-	26,388	k	-	-	87	6	-
Pennsylvania Department of Highways	bk Luzerne	-	1,915	-	-	1,915	u	-	-	-	-	-
Scranton Spruce St. Project Bank	bk Luzerne	7,998	23,357	7,671	-	39,026	-	-	-	122	8	-
Perry Coal Sales, Thomas	bk Luzerne	1,488	8,482	492	-	10,462	-	-	-	28	7	-
Taylor Yard Bank	bk Luzerne	9,486	31,839	8,163	-	49,488	v	-	-	15	-	-
Popple Coal Sales Co., Raymond	bk Luzerne	-	-	-	-	-	-	-	-	-	-	-
Dunmore Banks	bk Luzerne	-	-	-	-	-	-	-	-	-	-	-
Racho, George	bk Luzerne	-	-	-	-	-	-	-	-	-	-	-
Exeter Bank	bk Luzerne	-	-	-	-	-	-	-	-	-	-	-
Reilly Contracting Co.	bk Luzerne	-	-	-	-	-	-	-	-	-	-	-
Wilkes-Barre Bank	bk Luzerne	-	-	-	-	-	-	-	-	-	-	-
Scranton Excavating Co.	bk Luzerne	-	-	-	-	-	-	-	-	-	-	-
No. 9 Colliery Bank	bk Luzerne	-	-	-	-	-	-	-	-	-	-	-
William A. Bank	bk Luzerne	-	-	-	-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	-	-	-	-	-
Sebastopol Coal Co.	bk Luzerne	588	17,177	1,300	-	19,065	w	-	-	230	6	-
Sebastopol Bank	bk Luzerne	-	-	-	-	-	-	-	-	228	3	-
Silverbrook Anthracite, Inc.	B Luzerne	-	-	-	-	-	-	-	-	-	-	-
Kassa Breaker	B Luzerne	-	-	-	-	-	-	-	-	-	-	-

		District 13 Production - net tons				Pounds				Fatal fatal		
Operators and Collieries	County	Shipped to market		Used at		Total	permis- sible ex- plosives used	Pounds dynamite used	Days worked	Empl- oves	acci- dents	Non- fatal acci- dents
		By railroad	By truck	to local trade	to colliery for steam and heat							
United Gas Improvement Co., The	bk Luzerne	-	34,630	-	-	34,630	x	-	-	75	9	-
Huber 31 Silt Bank	bk Luzerne	-	-	-	-	-	-	-	-	-	-	-
District Total		153,692	441,267	114,418	789	710,166		282,100	300	206	830	60

- NOTE: (a) 666 tons prepared at Kassa Breaker.  
 (b) 329 tons prepared at Harry E. Breaker.  
 (c) All coal prepared at Huber Breaker.  
 Huber Colliery Ashley Mines were abandoned in 1967.  
 (d) 635 tons prepared at Loree Breaker.  
 1,500 tons shipped unprepared to Penna. Power & Light power plants.  
 20,927 tons shipped unprepared to company power plants.  
 (e) All coal shipped unprepared to company power plants.  
 (f) All coal prepared at Loree Breaker.  
 (g) All coal prepared at Taylor Breaker.  
 (h) All coal prepared at Kassa Breaker. 2,126 tons from coal stocked at Kassa Breaker in 1966.  
 (i) Ownership transferred from Bel Air Coal Co. to Duryea Coal Sales Co. in June 1967. Bel Air Breaker worked 96 days, 13 men.  
 (j) 575 tons prepared at Waddell Washery - District 10.  
 78 tons shipped unprepared to Penna. Power & Light power plants.  
 (k) All coal prepared at Waddell Washery - District 10.  
 (l) All coal shipped unprepared to Penna. Power & Light power plants.  
 (m) Ownership transferred from Blue Coal Corporation to Lear Coal Co. in April 1967 - same men.  
 (n) All coal prepared at Harry E. Breaker.  
 (o) 1,190 tons prepared at Taylor Breaker.  
 905 tons prepared at Ace Cleaning Plant - District 10  
 2,520 tons shipped unprepared to Penna. Power & Light power plants.  
 1,517 tons shipped unprepared to Dolly Madison power plants.  
 (p) 1,462 tons prepared at Taylor Breaker.  
 1,980 tons shipped unprepared to Penna. Power & Light power plants.  
 (q) All coal prepared at Bel Air Breaker.  
 1,646 tons prepared at Bel Air Breaker.  
 701 tons prepared at Waddell Washery - District 10.
- (r) 564 tons prepared at Pompey Breaker - District 10.  
 200 tons shipped unprepared to Penna. Power & Light power plants.  
 489 tons prepared at Bolands Breaker - District 10.  
 Ownership of Johnson Bank transferred from J. Giovannini to Oliver Carl in June 1967. Giovannini produced 764 tons, worked 50 days, 3 men.  
 (s) 2,889 tons prepared at Bel Air Breaker.  
 1,359 tons prepared at Taylor Breaker.  
 12,767 tons shipped unprepared to Erie-Lackawanna Railroad power plants.  
 (t) 35,000 tons shipped unprepared to Penna. Power & Light Plants.  
 64,119 tons shipped unprepared to United Gas Improvement power plants.  
 1,153 tons shipped unprepared to American Silt Processing Co.  
 (u) All coal prepared at Ginther Washery - District 15. From coal stocked at Ginther Washery in 1966.  
 (v) 9,447 tons prepared at Bel Air Breaker.  
 5,733 tons prepared at Taylor Breaker.  
 135 tons prepared at Penbrook Breaker - District 10.  
 5,020 tons prepared at Waddell Washery - District 10.  
 29,153 tons shipped unprepared to Penna. Power & Light Plants.  
 (w) 712 tons prepared at Bel Air Breaker.  
 1,175 tons prepared at Taylor Breaker.  
 16,936 tons shipped unprepared to Penna. Power & Light Plants.  
 242 tons shipped to Dolly Madison power plants.  
 (x) All coal shipped unprepared to United Gas Improvement Co. power plants.  
 (aa) Same men listed under Huber Colliery Ashley Mines.  
 (bb) Same men listed under Blue Coal Corp., Pine Ridge Bank.  
 \* Mine abandoned in 1967.

		District 15				Pounds				Fatal fatal		
Operators and Collieries	County	Shipped to market		Used at		Total	permis- sible ex- plosives used	Pounds dynamite used	Days worked	Empl- oves	acci- dents	Non- fatal acci- dents
		By railroad	By truck	to local trade	to colliery for steam and heat							
Archer Coal Co.	B Schuylkill	-	-	-	-	-	-	-	205	14	-	1
Honeybrook Breaker	B Schuylkill	-	-	-	-	-	-	-	-	-	-	-

		District 15 Production - net tons					Pounds permis- sible ex- plosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non- fatal acci- dents	
Operators and Collieries		Shipped to market	Sold to	Used at	Total								
County		By railroad	By truck	local trade	for steam and heat	production							
Beaverbrook Coal Co., Inc.													
	BP	Luzerne	-	-	-	-	-	-	104	20	-	-	
Beaver Brook Breaker													
Big Buck Coal Co.													
	B	Luzerne	-	-	-	-	-	-	4	2	-	-	
Big Buck Breaker													
	DM	Luzerne	-	-	17	17	150	-	43	5	-	-	
No. 2 Slope													
Total													
			-	-	17	17 a	150	-			-	-	
Blue Coal Corporation													
	IM	Luzerne	125,343	56,276	90,974	26	272,619 b	312,975	34,700	240	510	2	69
Wanamie Colliery													
Buckley Coal Corporation													
	BP	Luzerne	-	-	-	-	-	-	-	213	26	-	-
Eckley Breaker													
Coleby Coal Co., Inc.													
	bk	Schuylkill	55,160	-	-	-	55,160	-	-	164	6	-	-
Candleton Bank													
	B	Schuylkill	-	-	-	-	-	-	-	162	6	-	-
Candleton Breaker													
Total													
			55,160	-	-	-	55,160 c	-	-			-	-
Gowen Coal Co.													
	B	Luzerne	-	-	-	-	-	-	-	171	21	-	-
Gowen Breaker													
Greybosh Coal Co., Inc.													
	BP	Luzerne	-	-	-	-	-	-	-	320	2	-	-
Greybosh Breaker													
Honeybrook Mines, Inc.													
	B	Schuylkill	-	-	-	-	-	-	-	215	41	-	4
Honeybrook Breaker													
Huss, George													
	W	Luzerne	-	-	-	-	-	-	-	189	8	-	-
Beaver Brook Fine Coal Plant													
	bk	Luzerne	-	10,287	-	-	10,287	-	-	157	4	-	-
George Huss Culm Bank													
Total													
			-	10,287	-	-	10,287 d	-	-			-	-
Jeddo-Highland Coal Co.													
	bk	Luzerne	87,791	-	-	120	87,911 e	-	-	116	6	-	-
Highland No. 5 Banks													
	B	Luzerne	-	-	-	-	-	-	-	234	25	-	-
Highland No. 5 Breaker													
	bk	Luzerne	88,130	-	-	120	88,250 f	-	-	147	20	-	-
Jeddo No. 7 Banks													
	B	Luzerne	-	-	-	-	-	-	-	232	60	-	-
Jeddo No. 7 Breaker													
Total													
			175,921	-	-	240	176,161	-	-		111	-	2
Kassa Coal Co.													
	IM	Carbon	1,035	-	2,865	80	3,980 g	12,000	-	231	7	-	-
No. 4 Slope													
Lech Coal Co.													
	bk	Schuylkill	-	-	2,295	3	2,298 h	-	-	211	1	-	-
Quakake Bank													
Lee Mining Co., Inc., J. F.													
	IM	Luzerne	3,448	2,370	4,957	10	10,785 i	10,000	-	231	16	-	1
Drifton No. 1 Slope													
Lehigh Valley Anthracite, Inc.													
	bk	Luzerne	43,404	403	-	-	43,807 j	-	-	121	7	-	-
Admiral Silt Dam													
	bk	Luzerne	94,900	43,464	9,250	782	148,396 k	-	-	233	18	-	-
Hazleton Shaft Banks													
	B	Luzerne	-	-	-	-	-	-	-	132	83	-	4
Hazleton Shaft Breaker													
	B	Luzerne	-	-	-	-	-	-	-	213	27	-	6
Hazleton Shaft Cleaning Plant													

		District 15 Production - net tons					Pounds permis- sible ex- plosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non- fatal acci- dents	
Operators and Collieries		Shipped to market	Sold to	Used at	Total								
County		By railroad	By truck	local trade	for steam and heat	production							
Lehigh Valley Anthracite, Inc. (Continued)													
	bk	Luzerne	46,200	429	-	-	46,629 j	-	-	104	5	-	-
Hazleton Shaft Silt Dams													
	B	Luzerne	-	-	-	-	-	-	-	185	23	-	-
Lion Breaker													
Total													
			184,504	44,296	9,250	782	238,832	-	-		163	-	10
Pollock, Inc., Ken													
	bk	Luzerne	-	55,083	-	-	55,083 l	-	-	70	14	-	-
Wanamie Silt Bank													
Marko Coal Co.													
	IM	Schuylkill	-	1,513	3,724	8	5,245 m	550	-	215	5	-	-
Buck Mountain Slope													
Mazaika Brothers Coal Co.													
	BP	Schuylkill	-	-	-	-	-	-	-	300	3	-	-
Mazaika Breaker													
McAdoo Mining Co.													
	IM	Carbon	-	58	454	8	520 n	550	-	49	5	-	-
Wharton Slope													
Racho, George													
	bk	Luzerne	638	438	917	-	1,993 i	-	-	18	4	-	-
Cranberry Culm Banks													
	bk	Luzerne	59,563	17,519	-	-	77,082 o	-	-	117	8	-	-
Hazleton Shaft Bank													
	bk	Luzerne	1,922	1,321	2,763	-	6,006 i	-	-	31	5	-	-
Jeanesville Banks													
	bk	Luzerne	-	166,903	-	-	166,903 o	-	-	265	16	-	-
Lattimer Bank													
Total													
			62,123	186,161	3,680	-	251,964	-	-		33	-	-
Tedesco Brothers Coal Co.													
	bk	Luzerne	-	-	160	-	160	-	-	28	2	-	-
Tedesco Bank													
	B	Luzerne	-	-	-	-	-	-	-	28	3	-	-
Tedesco Breaker													
Total													
			-	-	160	-	160 p	-	-		5	-	-
Valley Coal Co.													
	BP	Schuylkill	-	-	-	-	-	-	-	256	3	-	-
Valley Breaker													
Wesner Coal Co.													
	BP	Schuylkill	-	-	-	-	-	-	-	231	4	-	-
Wesner Breaker													
Wiconisco Washery, Inc.													
	bk	Carbon	-	26,289	-	-	26,289 q	-	-	36	2	-	-
Beaver Meadow Bank													
District Total			607,534	382,353	118,376	1,157	1,109,420	336,225	34,700	209	1,035	2	87

NOTE: (a) All coal prepared at Big Buck Breaker.  
 (b) All coal prepared at Huber Breaker - District 13.  
 (c) All coal prepared at Candleton Breaker.  
 (d) All coal prepared at Beaver Brook Fine Coal Plant.  
 (e) All coal prepared at Highland No. 5 Breaker.  
 (f) 226 tons prepared at Hazleton Shaft Breaker.  
 (g) 88,024 tons prepared at Highland No. 5 Breaker.  
 (h) All coal prepared at Valley Breaker.  
 (i) All coal prepared at Blaschak Breaker - District 26.

(j) All coal prepared at Lion Breaker.  
 (k) 57,465 tons prepared at Hazleton Shaft Breaker.  
 41,449 tons prepared at Jeddo No. 7 Breaker.  
 49,782 tons prepared at Lion Breaker.  
 (l) All coal shipped unprepared to United Gas Improvement Co. Hunlock Plant.  
 (m) 67 tons prepared at Greybosh Breaker.  
 4,818 tons prepared at Mazaika Breaker.  
 352 tons prepared at Wesner Breaker.

Operators and Collieries		County	Production - net tons				Total production:	Pounds permissible explosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non-fatal acci- dents
			Shipped to market by railroad	Sold to local trade by truck	Sold to local trade	Used at colliery for steam and heat							

Operators and Collieries		County	Production - net tons				Total production:	Pounds permissible explosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non-fatal acci- dents
			Shipped to market by railroad	Sold to local trade by truck	Sold to local trade	Used at colliery for steam and heat							
District 15													
NOTE: (n) 208 tons prepared at Greyhosh Breaker.													
304 tons prepared at Wesner Breaker.													
(o) All coal shipped unprepared to Penna. Power & Light Co. Plants.													
District 16													
Anspach & Umbenhauer Coal Co.	IM	Schuylkill	275	761	98	1	1,135 a	650	-	44	3	-	-
Buck Mountain Slope	IM	Schuylkill	1,828	1,097	3,795	1	6,721 b	1,575	-	209	3	-	-
B. & C. Coal Co.	IM	Schuylkill	6,021	1,126	11,757	4	18,908 c	6,500	-	268	5	-	-
No. 2 Vein Slope *	IM	Schuylkill	1,218	14,562	56,429	470	72,679 d	30,950	-	280	20	1	-
B. & M. Coal Co.	IM	Schuylkill	523	3,960	2,222	25	6,730 e	2,800	-	99	15	-	-
B. & M. Tunnel	IM	Schuylkill	3,075	20,760	5,989	63	29,887 f	21,700	-	361	15	1	2
Bush Coal Co.	IM	Schuylkill	-	-	34,736	351	35,087 g	12,500	-	297	9	-	-
Top Split Slope	IM	Schuylkill	538	7,789	1,384	31	9,742 h	4,000	-	266	4	-	-
Clark Coal Co.	IM	Schuylkill	-	-	-	-	- i	-	-	291	2	-	-
Skidmore Slope	IM	Schuylkill	499	8,085	1,418	27	10,029 j	8,750	-	293	4	-	-
Erdman Coal Co.	IM	Schuylkill	204	2,770	3,149	29	6,152 k	4,600	-	280	6	-	-
Middle Split Slope	IM	Schuylkill	-	295	12,369	126	12,790 l	10,400	-	260	3	-	-
Skidmore Slope	IM	Schuylkill	901	14,551	2,523	47	18,022 m	9,000	-	291	8	-	1
Fireside Mining, Inc.	IM	Schuylkill	3,126	12,745	7,451	112	23,434	7,000	-	303	11	-	6
No. 1 Vein Slope	IM	Schuylkill	780	62	1,558	-	2,400	1,000	-	191	4	-	1
Good Spring Coal Co.	IM	Schuylkill	3,906	12,807	9,009	112	25,834 n	8,000	-	15	-	-	7
Holmes Slope	IM	Schuylkill	-	-	-	-	-	-	-	267	4	-	-
Green Coal Co.	IM	Schuylkill	-	-	-	-	-	-	-	248	42	-	-
No. 2 Vein Slope	IM	Schuylkill	-	-	-	-	-	-	-	304	12	-	-
Harman Coal Co.	IM	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
Buck Mountain Slope	IM	Schuylkill	480	6,444	1,652	14	8,590 o	7,800	-	267	4	-	-
Hatter Coal Co.	IM	Schuylkill	-	-	-	-	-	-	-	248	42	-	-
Middle Split Slope	IM	Schuylkill	-	-	-	-	-	-	-	304	12	-	-
Herb & Reed Coal Co.	IM	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
No. 4 Slope	IM	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
Hi-Test Coal Co.	IM	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
Skidmore Slope	IM	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
J. & C. Coal Co., Inc.	IM	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
Skidmore Slope	IM	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
No. 1 Vein Slope	IM	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
Total													
Keffers Coal Co.	IM	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
L.V. No. 2 Vein Slope	IM	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
Koehler Coal Co., Leon E.	BP	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
Koehler Breaker	BP	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
Legal Coal Co.	BP	Schuylkill	-	-	-	-	-	-	-	-	-	-	-
Legal Breaker	BP	Schuylkill	-	-	-	-	-	-	-	-	-	-	-

Operators and Collieries		County	Production - net tons				Total production:	Pounds permissible explosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non-fatal acci- dents
			Shipped to market by railroad	Sold to local trade by truck	Sold to local trade	Used at colliery for steam and heat							
District 16													
NOTE: (a) 506 tons prepared at Donaldson Breaker - District 30.													
629 tons prepared at Legal Breaker													
Ceased operations in March 1967.													
District 16													
Lehigh Valley Anthracite, Inc.	BP	Schuylkill	-	-	-	-	- p	-	-	273	1	-	-
Joliet Breaker	IM	Schuylkill	6,775	1,168	13,044	9	20,996 q	15,700	-	287	6	-	-
Madenford Coal Co.	IM	Schuylkill	695	10,993	4,883	-	16,571 r	17,600	-	283	13	-	3
No. 1 Vein Slope	IM	Schuylkill	59	10,105	1,455	12	11,631	6,000	-	305	4	-	-
Marby Coal Co., Inc.	IM	Schuylkill	872	2,535	709	10	4,126	2,500	-	294	4	-	-
Middle Split Slope	IM	Schuylkill	931	12,640	2,164	22	15,757 s	8,500	-	8	-	-	-
Ney & Lehman Coal Co.	IM	Schuylkill	13,405	24,075	10,322	289	48,091 t	48,910	-	260	18	-	8
No. 1 Slope	IM	Schuylkill	1,987	6,872	4,456	33	13,348 u	4,450	-	266	7	-	-
No. 2 Slope	IM	Schuylkill	68	130	47	3	248 v	200	-	100	2	-	-
Total	IM	Schuylkill	1,026	16,483	2,853	55	20,417 w	10,000	-	298	11	-	1
R. & K. Coal Co.	IM	Schuylkill	1,433	3,021	10,777	93	15,324 x	5,000	-	291	9	-	1
Skidmore Slope	IM	Schuylkill	4,160	333	11,378	31	15,902 y	11,500	-	267	7	-	-
R. & J. Coal Co.	IM	Schuylkill	-	-	-	-	- z	-	-	171	3	-	-
No. 2 Vein Slope	IM	Schuylkill	2,799	15,811	6,009	60	24,679 aa	9,500	-	291	8	-	1
Remminger & Partners Coal Co.	IM	Schuylkill	3,966	2,228	7,591	26	13,811 bb	7,800	-	278	5	-	1
Holmes Slope	BP	Schuylkill	-	-	-	-	-	-	-	305	11	-	-
S. & S. Coal Co.	IM	Schuylkill	4,109	9,174	3,003	58	16,344 cc	10,400	-	294	7	-	-
Skidmore Slope	IM	Schuylkill	1,044	23,960	23,162	258	48,424 dd	45,150	-	303	21	-	7
S. & W. Coal Co.	IM	Schuylkill	1,351	4,853	3,813	17	10,034 ee	5,000	-	284	5	-	-
Middle Split Slope													
Shade Coal Co.													
No. 2 Vein Slope													
Sherry Coal Co., Don													
No. 1 Middle Split Slope													
Stahl & Shade Coal Co.													
No. 2 Vein Slope													
Stahl Coal Co.													
No. 2 Vein Slope													
Superior Coal Co.													
Superior Breaker													
Sweet Water Coal Co.													
Primrose Slope													
Williamson Coal Co., Inc.													
Skidmore Slope													
Wolfgang Coal Co.													
L.V. No. 1 1/2 Vein Slope													
District Total			63,217	226,748	250,032	2,255	542,252	328,935	-	270	312	2	32

(b) 5,622 tons prepared at Penag Breaker - District 30.  
 347 tons prepared at Pine Creek Breaker - District 12.  
 752 tons sold unprepared to itinerate truckers-Dist. 12

District 16  
Production - net tons

Operators and Collieries	County	Production - net tons			Pounds		Days worked	Empl- eyes	Fatal acci- dents	Non- fatal acci- dents	
		Shipped to market	Sold to colliery	Used at local for steam and heat	Total production	permis- sible ex- plosives used					Pounds dynamite used
NOTE: (c)	17,886 tons prepared at Penag Breaker - District 30.				(m)	All coal prepared at Legal Breaker.					
	290 tons prepared at Legal Breaker.				(n)	8,591 tons prepared at Kocher Breaker.					
	505 tons prepared at Kocher Breaker.					11,200 tons prepared at Strohecker Breaker - District 12.					
(d)	227 tons prepared at Superior Breaker.					2,400 tons prepared at Penag Breaker - District 30.					
	772 tons prepared at Svataara Breaker - District 21.					1,369 tons prepared at Legal Breaker.					
	4,672 tons prepared at Pine Creek Breaker - District 12.					2,274 tons shipped direct to Penna. Power & Light Co.					
	8,579 tons prepared at Olenick Breaker - District 19.					Lengel Coal Co., Warren produced no coal, worked 68 days, with 3 men, at No. 1 Vein Slope. Transferred to J. & C. Coal Co., Inc. in April 1967.					
	2,171 tons prepared at Strohecker Breaker - District 12.				(o)	7,884 tons prepared at Superior Breaker					
	39,582 tons prepared at Underkoffler Breaker - District 12.					706 tons prepared at Stonehill Breaker - District 12.					
	9,762 tons prepared at Dizenzo Breaker - District 19.				(p)	Breaker idle entire year of 1967 - 1 employe on maintenance.					
	753 tons prepared at Penag Breaker - District 30.				(q)	19,718 tons prepared at Penag Breaker - District 30.					
(e)	6,388 tons prepared at Franklin Breaker - District 30.					1,015 tons prepared at Kocher Breaker.					
	1,038 tons prepared at Penag Breaker - District 30.					131 tons prepared at Legal Breaker.					
	2,888 tons prepared at Legal Breaker.				(r)	132 tons prepared at Strohecker Breaker - District 12.					
	117 tons prepared at Kocher Breaker					12,674 tons prepared at Swift Breaker - District 24.					
	2,687 tons prepared at Pine Creek Breaker - District 12.					1,275 tons prepared at D. & Z. Breaker - District 24.					
(f)	Bixler Coal Co. produced 3,090 tons of this coal, worked 125 days with 4 men, used 1,300 pounds of explosives. Changed to Clark Coal Co. in September 1967.					767 tons prepared at Reidinger Breaker - District 24.					
	2,125 tons prepared at Pine Creek Breaker - District 12.					1,855 tons prepared at Penag Breaker - District 30.					
	2,573 tons prepared at Hillside Breaker - District 21.					H. & W. Coal Co. produced 7,825 tons of this coal, worked 144 days with 13 men and used 7,500 pounds of explosives. Changed to Marby Coal Co., Inc. in July 1967.					
	12,833 tons prepared at Schneck Breaker - District 30.				(s)	3,769 tons prepared at Schneck Breaker - District 30.					
	9,226 tons prepared at Oakwood Breaker - District 30.					11,313 tons prepared at Oakwood Breaker - District 30.					
	2,284 tons prepared at K. & P. Breaker - District 19.					67 tons prepared at Donaldson Breaker - District 30.					
(g)	630 tons prepared at Penag Breaker - District 30.				(t)	608 tons prepared at Penag Breaker - District 30.					
	216 tons prepared at Dizenzo Breaker - District 19.					37,654 tons prepared at Kocher Breaker					
(h)	All coal prepared at Underkoffler Breaker - District 12.					10,437 tons prepared at Pine Creek Breaker - District 12.					
	36 tons prepared at Donaldson Breaker - District 30.				(u)	1,838 tons prepared at Donaldson Breaker - District 30.					
	2,094 tons prepared at Franklin Breaker - District 30.					5,289 tons prepared at Pine Creek Breaker - District 12.					
	6,998 tons prepared at Legal Breaker.					3,392 tons prepared at Penag Breaker - District 30					
	456 tons prepared at Kocher Breaker.					10 tons prepared at Kocher Breaker					
	26 tons prepared at Penag Breaker - District 30.				(v)	2,819 tons sold unprepared to itinerate truckers - District 12.					
(i)	132 tons prepared at Old Mill Breaker - District 19.					189 tons prepared at Kocher Breaker					
	Pump slope					26 tons prepared at Superior Breaker					
(j)	9,978 tons prepared at Legal Breaker.					33 tons prepared at Pine Creek Breaker - District 12.					
	51 tons prepared at Pine Creek Breaker - District 12.				(w)	20,263 tons prepared at Legal Breaker					
(k)	2,760 tons prepared at Underkoffler Breaker - District 12.					85 tons prepared at Oakwood Breaker - District 30					
	3,129 tons prepared at Superior Breaker.					69 tons prepared at Schneck Breaker - District 30.					
(l)	263 tons prepared at Legal Breaker.										
	12,452 tons prepared at Underkoffler Breaker - District 12.										
	338 tons prepared at Oakwood Breaker - District 30.										

District 16  
Production - net tons

Operators and Collieries	County	Production - net tons			Pounds		Days worked	Empl- eyes	Fatal acci- dents	Non- fatal acci- dents	
		Shipped to market	Sold to colliery	Used at local for steam and heat	Total production	permis- sible ex- plosives used					Pounds dynamite used
NOTE: (x)	2,087 tons prepared at Legal Breaker				(cc)	9,544 tons prepared at Kocher Breaker.					
	731 tons prepared at Kocher Breaker					5,582 tons prepared at Superior Breaker.					
	99 tons prepared at Pine Creek Breaker - District 12.					1,443 tons prepared at Penag Breaker - District 30.					
	964 tons prepared at Oakwood Breaker - District 30.				(dd)	75 tons prepared at Underkoffler Breaker - District 12.					
	3,290 tons prepared at Penag Breaker - District 30.					16,693 tons prepared at Strohecker Breaker - District 12.					
(y)	8,153 tons prepared at Underkoffler Breaker - District 12.					27,939 tons prepared at Pine Creek Breaker - District 12.					
	12,801 tons prepared at Penag Breaker - District 30.					3,212 tons prepared at Penag Breaker - District 30.					
(z)	3,101 tons prepared at Underkoffler Breaker - District 12.				(ee)	580 tons prepared at Underkoffler Breaker - District 12.					
	Reconditioning and retimbering slope and second opening. Ceased operations in June 1967.					515 tons prepared at Donaldson Breaker - District 30.					
(aa)	3,995 tons prepared at Donaldson Breaker - District 30.					4,946 tons prepared at Oakwood Breaker - District 30.					
	2,712 tons prepared at Penag Breaker - District 30.					132 tons prepared at Kocher Breaker.					
	9,897 tons prepared at Pine Creek Breaker - District 12.					3,251 tons prepared at Penag Breaker - District 30.					
	23 tons prepared at Underkoffler Breaker - District 12.					1,061 tons prepared at Underkoffler Breaker - District 12.					
	8,052 tons sold unprepared to itinerate Truckers - District 12.				*	129 tons sold unprepared to itinerate truckers - Dist. 12					
(bb)	2,205 tons prepared at Kocher Breaker.					Ceased operations in October 1967					
	138 tons prepared at Donaldson Breaker - District 30.										
	1,385 tons prepared at Pine Creek Breaker - District 12.										
	9,576 tons prepared at Penag Breaker - District 30.										
	440 tons prepared at Underkoffler Breaker - District 12.										
	67 tons prepared at Legal Breaker.										

District 17

Operators and Collieries	County	Shipped to market	Sold to colliery	Used at local for steam and heat	Total production	permis- sible ex- plosives used	Pounds dynamite used	Days worked	Empl- eyes	Fatal acci- dents	Non- fatal acci- dents
B. & E. Coal Co.						a	430	34	3	-	-
Zero Iykens Slope	DM Northumberland	-	-	-	-						
Bank Coal Co., Inc.						b	8,130	287	11	-	-
10 Vein S. D. Slope	DM Northumberland	1,216	2,109	11,768	27						
Bruno & Peifer Coal Co.						c	220	40	3	-	-
½ Vein N.D.No. 2 Slope	DM Northumberland	26	366	34	4						
Chestnut Coal Co.						d	1,850	259	4	-	-
11 Vein N.D. No. 5 Slope	DM Northumberland	222	3,295	296	37						
D. H. & W. Coal Co.						e	9,800	246	8	-	-
½ & 10 Veins No. 1 & 4 Slopes	DM Northumberland	851	13,886	4,743	142						
D. & M. Coal Co.						c	4,175	236	3	-	-
1 Vein Iykens No. 1 & 2 Slopes	DM Northumberland	282	3,988	375	46						
Fairdeal Coal Co.						f	2,965	50	7	-	-
9 Vein S. D. Slope	DM Northumberland	76	3,792	128	40						
Fetterolf Coal Co. *						c	470	62	5	-	-
11 Vein S. D. Slope	DM Northumberland	56	799	75	9						
Gem Coal Co. No. 3						g	15,000	260	11	1	1
11 Vein S. D. Slope	DM Northumberland	908	18,994	1,190	148						

		District 17					Production - net tons				Pounds		Fatal		Non-	
Operators and Collieries		County		Production - net tons		Used at		Pounds		Days		Fatal		Non-		
				Shipped to market		to colliery		permissible explosives		worked		accidents		fatal		
		By		By		for steam		Total		dynamite		Empl- oves		fatal		
		railroad		truck		and heat		production		used		accidents		accidents		
Gudelnas Coal Co.																
12 Vein S. D. No. 3 & 4 Slopes	DM	Northumberland	-	96	2,204	-	-	2,300 h	1,100	-	291	2	-	-	-	-
H. J. & H. Coal Co.																
H. J. & H. Breaker	BP	Northumberland	-	-	-	-	-	-	-	-	309	4	-	-	-	-
M. & C. Coal Co.																
¾ Vein S. D. Slope	DM	Northumberland	460	6,528	614	77	7,679 c	4,050	-	-	271	5	-	-	-	-
Marquette Coal Co.																
12 Vein S. D. Slope	DM	Northumberland	-	3,320	-	-	3,320 i	2,425	-	-	360	4	-	-	-	-
Moore Coal Co.																
11 Vein No. 5 & 6 Slopes	DM	Northumberland	115	3,427	154	18	3,714 j	1,950	-	-	238	4	-	-	-	-
N. & L. Coal Co.																
4 Vein West Cross Pitch Slope	DM	Northumberland	19	267	25	3	314 c	170	-	-	70	3	-	-	-	-
Phillips Coal Co.																
10 & 10½ Veins N.D. 3 & 4 Slopes	DM	Northumberland	582	13,234	775	91	14,682	6,300	-	-	296	7	-	-	-	-
11 Vein N. D. No. 5 & 6 Slopes	DM	Northumberland	310	7,802	405	50	8,567	2,310	-	-	295	5	-	-	-	-
Total			892	21,036	1,180	141	23,249 k	8,610	-	-	12	-	-	-	-	-
Reading Anthracite Co.																
Trevorton Breaker	BP	Northumberland	-	-	-	-	-	-	-	-	234	19	-	-	-	2
Trevorton Slush Bank 57-1	bk	Northumberland	43,600	2,275	13,310	-	59,185	-	-	-	194	6	-	-	-	-
Trevorton Refuse Bank 228	bk	Northumberland	224	14	52	-	290	-	-	-	10	2	-	-	-	-
Total			43,824	2,289	13,362	-	59,475 l	-	-	-	27	-	-	-	-	2
Reidinger Coal Mining Co.																
Zero Iykens S. D. Slope	DM	Northumberland	54	590	120	4	768 m	380	-	-	96	4	-	-	-	-
Rocky Mountain Coal Co.																
1¼ Vein N. D. No. 3 Slope	DM	Northumberland	173	4,198	230	29	4,630 n	4,400	-	-	212	4	-	-	-	-
Split Vein Coal Co., Inc.																
12 Vein S. D. No. 2 Slope	DM	Northumberland	-	3,461	1,233	-	4,694 o	3,250	-	-	245	4	-	-	-	-
Springfield Coal Co.																
7 & 5 Veins S. D. No. 1 Drift	DM	Northumberland	685	9,691	915	114	11,405 c	4,050	-	-	303	4	-	-	-	-
T. & M. Coal Co.																
1¼ Vein S. D. No. 3 Slope	DM	Northumberland	110	183	62	11	366 p	185	-	-	87	3	-	-	-	-
Whitney Coal Co.																
1¼ Vein S. D. No. 2 & 3 Slopes	DM	Northumberland	1,191	76	14,229	4	15,500 q	7,400	100	279	9	-	-	-	1	5
District Total			51,160	102,391	52,937	854	207,342	81,010	100	220	144	1	-	-	-	5

- NOTE: (a) No production driving rock slope. (c) All coal prepared at Sunshine Breaker - District 28.  
 (b) 12,655 tons prepared at Bar Mac Breaker - District 24. (d) 3,700 tons prepared at Sunshine Breaker - District 28.  
 1,575 tons prepared at Sunshine Breaker - District 28. 150 tons prepared at H. J. & H. Breaker - District 17.  
 702 tons prepared at Reidinger Breaker - District 24.  
 188 tons prepared at Diamond Breaker - District 20.

		District 17					Production - net tons				Pounds		Fatal		Non-		
Operators and Collieries		County		Shipped to market		Sold		Used at		Pounds		Days		Fatal		Non-	
				By		to colliery		for steam		permissible explosives		worked		accidents		fatal	
		By		By		local		Total		dynamite		Empl- oves		accidents		accidents	
		railroad		truck		trade		and heat		used		accidents		accidents		accidents	
NOTE: (e)	13,609 tons prepared at Sunshine Breaker - District 28.	(m)	340 tons prepared at Reidinger Breaker - District 24.														
	3,758 tons prepared at Split Vein Breaker - District 24.		243 tons prepared at D. & Z. Breaker - District 24.														
	1,017 tons prepared at H. J. & H. Breaker.		130 tons prepared at Bar Mac Breaker - District 24.														
	622 tons prepared at Reidinger Breaker - District 24.	(n)	55 tons prepared at Diamond Breaker - District 20.														
	563 tons prepared at D. & Z. Breaker - District 24.	(o)	2,880 tons prepared at Sunshine Breaker - District 28.														
	53 tons prepared at Bar Mac Breaker - District 24.		1,750 tons prepared at H. J. & H. Breaker.														
(f)	2,444 tons prepared at Reidinger Breaker - District 24.		3,410 tons prepared at H. J. & H. Breaker.														
	1,592 tons prepared at Sunshine Breaker - District 28.	(p)	1,284 tons prepared at Split Vein Breaker - District 24.														
	Ceased operations in 1967.	(q)	Triple "S" Coal Co. produced 3,410 tons, worked 140 days, 4 men, used 2,480 pounds of explosives. Changed to Split Vein Coal Co. on August 1, 1967.														
(g)	14,849 tons prepared at Sunshine Breaker - District 28.		All coal prepared at Carbon Run Breaker - District 24.														
	6,063 tons prepared at H. J. & H. Breaker.		15,310 tons prepared at Bar Mac Breaker - District 24.														
	328 tons prepared at D. & Z. Breaker - District 24.		190 tons prepared at Diamond Breaker - District 20.														
(h)	All coal prepared at Split Vein Breaker - District 24.		Dallaburda Coal Co., Inc. produced 12,200 tons, worked 210 days, 9 men, used 5,550 pounds of explosives. Changed to Whitney Coal Co. on September 1, 1967.														
(i)	All coal prepared at H. J. & H. Breaker.																
(j)	1,927 tons prepared at Sunshine Breaker - District 28.																
	1,787 tons prepared at H. J. & H. Breaker.																
(k)	14,724 tons prepared at Sunshine Breaker - District 28.																
	8,525 tons prepared at H. J. & H. Breaker.	*															
(l)	All coal prepared at Trevorton Breaker.																
	Trevorton Anthracite Co. produced 43,446 tons, worked 323 days, same men. Changed to Reading Anthracite Co. on November 15, 1967.																

		District 18					Production - net tons				Pounds		Fatal		Non-		
Operators and Collieries		County		Shipped to market		Sold		Used at		Pounds		Days		Fatal		Non-	
				By		to colliery		for steam		permissible explosives		worked		accidents		fatal	
		By		By		local		Total		dynamite		Empl- oves		accidents		accidents	
		railroad		truck		trade		and heat		used		accidents		accidents		accidents	
A. & D. Coal Co.	DM	Schuylkill	-	3,376	2,032	44	5,452 a	5,200	-	-	314	4	-	-	-	-	
Mammoth Slope																	
B. & N. Coal Co.	BP	Schuylkill	-	-	-	-	-	-	-	-	215	4	-	-	-	-	
B. & N. Breaker																	
Bear Ridge Coal Co.	DM	Schuylkill	-	2	44	2	48 b	25	-	-	21	2	-	-	-	-	
Bottom Split Slope																	
Bernitsky Brothers Coal Co.	DM	Schuylkill	2,226	5,272	9,574	65	17,137 c	6,000	-	-	240	5	-	-	-	-	
No. 1 Slope																	
Bernitsky & Stenuilis Partnership	DM	Schuylkill	-	1,924	7,800	-	9,724 d	2,000	-	-	240	5	-	-	-	2	
Bottom Split Slope																	
Bubel Coal Co.	DM	Schuylkill	-	1,127	1,162	19	2,308 e	1,000	-	-	128	5	-	-	-	-	
Bubel Tunnel																	
Bubel Mining Co., Inc.	DM	Schuylkill	268	3,644	3,096	11	7,019 f	4,500	-	-	179	8	-	-	-	-	
Holmes Slope																	
CorraLe Construction Co.	B	Carbon	-	-	-	-	-	-	-	-	252	15	-	-	-	1	
Nesquehoning Cleaner Plant	bk	Carbon	18,906	48,616	-	-	67,522	-	-	-	252	15	-	-	-	3	
Nesquehoning Bank			18,906	48,616	-	-	67,522 g	-	-	-	30	-	-	-	-	4	
Total																	

District 18

Production - net tons

Operators and Collieries	County	Shipped to market		Sold to local trade	Used at colliery for steam and heat	Total production	Pounds permissible explosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non- fatal acci- dents
		By railroad	By truck									
D. H. M. & C. Coal Co.												
Buck Mountain Slope	DM Schuylkill	204	1,320	803	24	2,351 h	3,000	100	162	4	-	-
Farley Coal Co.												
Buck Mountain Slope	DM Schuylkill	-	5,099	5,934	112	11,145 i	6,500	-	289	8	-	2
Fauzio Coal Co.												
No. 6 Bank	bk Carbon	9,103	4,690	1,473	-	15,266 j k	-	-	55	4	-	-
Fegley Brothers Coal Co.												
Primrose Slope	DM Schuylkill	-	18	280	3	301 l	225	-	31	4	-	-
Film Coal Co., Inc.												
Kaska Breaker	B Schuylkill	-	-	-	-	-	-	-	237	11	-	2
Kaska Bank	bk Schuylkill	17,712	14,727	-	-	32,439	-	-	237	10	-	2
<b>Total</b>		<b>17,712</b>	<b>14,727</b>	<b>-</b>	<b>-</b>	<b>32,439 m</b>	<b>-</b>	<b>-</b>	<b>21</b>	<b>-</b>	<b>-</b>	<b>4</b>
Gorenty Coal Co.												
Gorenty Tunnel	DM Schuylkill	16	39	190	2	247 n	250	-	30	2	-	-
Greenwood Mining Co.												
Greenwood Breaker	BP Schuylkill	-	-	-	-	-	-	-	244	90	-	10
J. & E. Coal Co.												
J. & E. Breaker	BP Schuylkill	-	-	-	-	-	-	-	145	12	-	-
K. M. & F. Coal Service												
K. M. & F. Breaker	BP Schuylkill	-	-	-	-	-	-	-	35	4	-	-
Klmas Coal Co.												
No. 7 Slope	DM Schuylkill	248	4,008	3,972	59	8,287 o	4,300	2,200	296	9	-	1
Kristoff Coal Co.												
Four Foot Slope	DM Schuylkill	-	-	70	-	70 p	25	-	40	4	-	-
Lanscoal Mining Co., Inc.												
No. 9 Mine	DM Carbon	13,741	7,079	2,224	-	23,044 j	12,800	2,600	229	17	-	1
Lehigh Valley Anthracite, Inc.												
Salem Creek Breaker	BP Schuylkill	-	-	-	-	-	-	-	246	5	-	-
Manbeck Dredging Co., Inc.												
No. 6 Washery	W Carbon	-	-	-	-	-	-	-	278	5	-	-
No. 6 Bank	bk Carbon	-	97,000	-	-	97,000	-	-	278	4	-	1
<b>Total</b>		<b>-</b>	<b>97,000</b>	<b>-</b>	<b>-</b>	<b>97,000 q</b>	<b>-</b>	<b>-</b>	<b>9</b>	<b>-</b>	<b>-</b>	<b>1</b>
Mar Strip & Excavating Co.												
No. 11 Bank	bk Schuylkill	48,717	25,098	7,884	-	81,699 j	-	-	236	23	-	-
Mountain Side Coal Co.												
Mountain Side Breaker	BP Schuylkill	-	-	-	-	-	-	-	305	2	-	-
Pacine Contracting Co.												
Schuylkill Bank	bk Schuylkill	217	456	2,663	22	3,358 r	-	-	183	2	-	-
Premium Fine Coal Co., Inc.												
Premium Fine Coal Plant	W Schuylkill	-	-	-	-	-	-	-	176	3	-	-
Premium Bank	bk Schuylkill	13,286	11,233	-	-	24,519	-	-	176	3	-	-
<b>Total</b>		<b>13,286</b>	<b>11,233</b>	<b>-</b>	<b>-</b>	<b>24,519 s</b>	<b>-</b>	<b>-</b>	<b>6</b>	<b>-</b>	<b>-</b>	<b>-</b>

District 18

Production - net tons

Operators and Collieries	County	Shipped to market		Sold to local trade	Used at colliery for steam and heat	Total production	Pounds permissible explosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non- fatal acci- dents
		By railroad	By truck									
R. & R. Coal Co.												
Brockton Breaker	BP Schuylkill	-	-	-	-	-	-	-	265	5	-	-
Randolph Coal Co.												
Randolph Washery	W Schuylkill	-	-	-	-	-	-	-	288	2	-	-
Randolph Bank	bk Schuylkill	-	8,026	-	-	8,026	-	-	288	1	-	-
<b>Total</b>		<b>-</b>	<b>8,026</b>	<b>-</b>	<b>-</b>	<b>8,026 t</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>
Reading Anthacite Co.												
Pine Forest Cleaner Plant	B Schuylkill	-	-	-	-	-	-	-	148	8	-	3
Schickram, William												
No. 8 Bank	bk Schuylkill	41,025	21,135	6,639	-	68,799 j	-	-	251	13	-	-
Silver Creek Coal Co., Inc.												
Silver Creek Breaker	BP Schuylkill	-	-	-	-	-	-	-	50	4	-	-
Skripnek Coal Co.												
Skidmore Slope	DM Schuylkill	-	12	230	1	243 u	200	-	26	2	-	-
South Tamaqua Coal Pockets												
South Tamaqua Breaker	BP Schuylkill	-	-	-	-	-	-	-	216	4	-	-
Spring Creek Coal Co.												
Spring Creek Breaker	BP Schuylkill	-	-	-	-	-	-	-	26	2	-	-
Tracy Coal Co.												
Tracy Vein Slope	DM Schuylkill	359	1,428	1,519	16	3,322 v	2,500	200	268	3	-	-
Whippoorwill Coal Co.												
Top Split Slope	DM Schuylkill	-	397	4,672	48	5,117 w	2,875	-	257	3	-	-
Williams Coal Co., Evan												
Primrose Slope	DM Schuylkill	-	1,248	3,006	43	4,297 x	2,600	-	232	4	-	-
Zakrewsky Coal Co.												
Leader Slope	DM Schuylkill	23	18,138	4,769	14	22,944 y	3,850	-	284	9	-	-
<b>District Total</b>		<b>166,051</b>	<b>285,112</b>	<b>70,036</b>	<b>485</b>	<b>521,684</b>	<b>57,850</b>	<b>5,100</b>	<b>221</b>	<b>349</b>	<b>-</b>	<b>28</b>

- NOTE: (a) 4,384 tons prepared at J. & E. Breaker.  
 1,068 tons prepared at Valley Breaker - District 15.  
 (b) 30 tons prepared at K. M. & F. Breaker.  
 18 tons prepared at Mountain Side Breaker.  
 Ceased operations in May 1967.  
 (c) 10,599 tons prepared at K. & P. Breaker - District 19.  
 6,538 tons prepared at Glenn Worth Breaker - District 19.  
 (d) 2,291 tons prepared at Wesner Breaker - District 15.  
 6 tons prepared at Sky Top Breaker - District 26.  
 7,427 tons prepared at Starwood Breaker - District 26.

- (e) 48 tons prepared at B. & N. Breaker.  
 1,062 tons prepared at J. & E. Breaker.  
 271 tons prepared at K. M. & F. Breaker.  
 558 tons prepared at Glenn Worth Breaker - District 19.  
 369 tons prepared at Starwood Breaker - District 26.  
 (f) 2,744 tons prepared at B. & N. Breaker.  
 864 tons prepared at J. & E. Breaker.  
 150 tons prepared at K. M. & F. Breaker.  
 29 tons prepared at Valley Breaker - District 15.  
 1,274 tons prepared at K. & P. Breaker - District 19.  
 1,958 tons prepared at Starwood Breaker - District 26.



		District 18				Production - net tons		Pounds			Non-	
		Shipped to market		Sold to colliery		Total	permis-	Pounds	Days	Empl-	Fatal	fatal
Operators and Collieries	County	By railroad	By truck	By local trade	Used at colliery for steam and heat	production:	sible ex-	dynamite	worked	oves	acci-	acci-
							plosives	used	days	eyes	dents	dents
NOTE: (f) Three Par Coal Co. produced 150 tons, worked 39 days, with 2 men, and used 100 pounds of explosives. Changed to Bubl Mining Co. in June 1967.						(p)						
(g) All coal prepared at Honeybrook Breaker - District 15.						(q)						
(h) 8 1/2 tons prepared at K. M. & F. Breaker. 2,267 tons prepared at Minersville Breaker - District 19. D. & H. Partnership produced 1,083 tons, worked 82 days, with 3 men, used 1,100 pounds of explosives. Changed to D. H. M. & C. Coal Co. in September 1967.						(r)						
(i) 4,781 tons prepared at J. & E. Breaker. 1,789 tons prepared at Mountain Side Breaker. 4,575 tons prepared at South Tamaqua Breaker.						(s)						
(j) All coal prepared at Greenwood Breaker.						(t)						
(k) Began operations in March and ceased in September 1967.						(u)						
(l) 32 tons prepared at K. M. & F. Breaker. 185 tons prepared at Mountain Side Breaker. 84 tons prepared at Wesner Breaker - District 15. Ceased operations during May 1967.						(v)						
(m) All coal prepared at Kaska Breaker.						(w)						
(n) 88 tons prepared at K. M. & F. Breaker. 160 tons prepared at Silver Creek Breaker.						(x)						
(o) 2,142 tons prepared at B. & N. Breaker. 2,184 tons prepared at J. & E. Breaker. 1,722 tons prepared at K. M. & F. Breaker. 2,013 tons prepared at Silver Creek Breaker. 226 tons prepared at K. & P. Breaker - District 19.						(y)						

		District 19				Production - net tons		Pounds			Non-	
		Shipped to market		Sold to colliery		Total	permis-	Pounds	Days	Empl-	Fatal	fatal
Operators and Collieries	County	By railroad	By truck	By local trade	Used at colliery for steam and heat	production:	sible ex-	dynamite	worked	oves	acci-	acci-
							plosives	used	days	eyes	dents	dents
Big Hill Coal Co. Big Hill Slope	IM Schuylkill	-	-	-	-	-	a	-	36	3	-	-
Bosack Coal Co. No. 2 Drift Tunnel	IM Schuylkill	49	3,539	3,396	28	7,012	b	850	267	5	-	-
C I S Coal Co. Maple Spring Breaker	B Schuylkill	-	-	-	-	-	-	-	139	8	-	1
Lytle Bank	bk Schuylkill	17 1/2	11,126	390	-	11,690	-	-	83	4	-	1
Total		17 1/2	11,126	390	-	11,690	c	-	-	12	-	2
Cass Contracting Co. Marlin Breaker	BP Schuylkill	-	-	-	-	-	-	-	143	9	-	2
Coxe Coal Co. Woods Drift	IM Schuylkill	2,796	1,454	1,400	19	5,669	d	6,100	168	4	-	-
Dando Coal Co., Frederick P. No. 12 Rock Slope	IM Schuylkill	33	1,771	2,188	9	4,001	e	935	239	5	-	1

		District 19				Production - net tons		Pounds			Non-	
		Shipped to market		Sold to colliery		Total	permis-	Pounds	Days	Empl-	Fatal	fatal
Operators and Collieries	County	By railroad	By truck	By local trade	Used at colliery for steam and heat	production:	sible ex-	dynamite	worked	oves	acci-	acci-
							plosives	used	days	eyes	dents	dents
DiRenzo Coal Co. DiRenzo Breaker	BP Schuylkill	-	-	-	-	-	-	-	209	7	-	-
F. & Z. Coal Co. Buck Slope	DM Schuylkill	108	966	659	20	1,753	f	1,200	112	5	-	-
Glenn Worth Coal Co. Glenn Worth Breaker	BP Schuylkill	-	-	-	-	-	-	-	198	3	-	-
H. & P. Coal Co. No. 1 Buck Mountain Slope	IM Schuylkill	150	2,051	1,433	16	3,650	g	2,450	169	4	-	-
Halaburda Coal Co. No. 2 Seven Foot Slope	IM Schuylkill	-	-	-	-	-	a	-	41	2	-	-
Hegins Mining Co. Sharp Mountain Slope	IM Schuylkill	2,137	7,379	8,098	7	17,621	h	12,000	309	8	-	2
Horvath Partnership Seven Foot Vein Slope	IM Schuylkill	165	974	535	14	1,688	i	850	107	4	-	-
Industrial Coal Sales Co. Branchdale Bank	bk Schuylkill	2,297	4,738	144	-	7,179	j	-	47	3	-	-
K. & P. Coal Co. K. & P. Breaker	BP Schuylkill	-	-	-	-	-	-	-	190	8	-	-
Koch Coal Co. Selkirk Slope	IM Schuylkill	-	763	340	4	1,107	k	1,375	128	4	-	-
Live Oak Coal Co. Live Oak Breaker	BP Schuylkill	-	-	-	-	-	-	-	237	5	-	1
M. & N. Coal Co. Middle Split Slope	IM Schuylkill	1,123	1,677	1,036	7	3,843	-	2,000	189	5	-	2
Peach Mountain No. 2	DM Schuylkill	236	1,158	454	2	1,850	-	1,450	180	4	-	3
Total		1,359	2,835	1,490	9	5,693	l	3,450	-	9	-	5
Manbeck Dredging Co., Inc. Forestville Washery	W Schuylkill	-	-	-	-	-	-	-	182	5	-	2
Lytle Bank	bk Schuylkill	-	33,800	-	-	33,800	m	-	182	4	-	-
Lowland Washery	W Schuylkill	-	-	-	-	-	-	-	162	5	-	-
Lowland Bank	bk Schuylkill	23,000	500	-	-	23,500	n	-	162	4	-	-
Total		23,000	34,300	-	-	57,300	-	-	-	18	-	2
Martin Enterprises Woodside Tunnel	IM Schuylkill	80	564	310	24	978	i	500	67	4	-	-
Minersville Coal Co., Inc. Minersville Breaker	BP Schuylkill	-	-	-	-	-	-	-	300	9	-	-
Old Mill Coal Yard	B Schuylkill	-	-	-	-	-	-	-	228	3	-	-
Old Mill Breaker	bk Schuylkill	8	16	1	-	25	-	-	3	1	-	-
Old Mill Slush Bank	bk Schuylkill	8	16	1	-	25	j	-	-	4	-	-
Total		8	16	1	-	25	-	-	-	-	-	-
Olenick Brothers Coal Co. Olenick Breaker	BP Schuylkill	-	-	-	-	-	-	-	212	3	-	2

		District 19				Production - net tons		Pounds			Fatal	Non-
Operators and Collieries		County	Shipped to market	Sold to	Used at	Total	permis-	Pounds	Days	Empl-	Fatal	fatal
			By	By	colliery		sible ex-	dynamite	worked	oves	acci-	acci-
			railroad	truck	for steam	production:	plosives	used			dents	dents
				local	and heat		used					
P. & H. Coal Co.			89	248	1,360	-	1,697 o	1,400		142	4	-
White Ash Slope	IM	Schuylkill										
Phoenix Contracting Co.												
Black Heath Breaker	BP	Schuylkill								136	8	1
Reading Anthracite Co.												
New St. Nicholas Breaker	B	Schuylkill								225	37	4
New St. Nicholas Fine Coal Plant	W	Schuylkill								244	30	2
Beechwood Cleaner Plant	B	Schuylkill								225	6	3
Oak Hill Slush Bank No. 73	bk	Schuylkill	71,301	-	-	71,301 p	-	-		235	6	-
Anchor Refuse Bank No. 155-C	bk	Schuylkill	117	41	80	238 q	-	-		4	1	-
<b>Total</b>			<b>71,418</b>	<b>41</b>	<b>80</b>	<b>-</b>	<b>71,539</b>	<b>-</b>	<b>-</b>	<b>80</b>	<b>-</b>	<b>9</b>
Rickert Coal Co.												
Tracy Slope	IM	Schuylkill		1,083	820	12	1,915 r	2,400		148	6	-
Scheib Coal Co.												
Scheib Slope	IM	Schuylkill	557	545	100	16	1,218 s	450		73	4	-
Scott Coal Co.												
Buck Slope	IM	Schuylkill	30	187	103	5	325 i	200	200	57	3	-
Seanawaitis Brothers Coal Co.												
Bottom Split Slope	IM	Schuylkill	397	4,410	3,858	21	8,686 t	3,000	8,000	280	4	-
Siminitus Coal Co.												
Four Foot Slope	IM	Schuylkill					a			34	4	-
Snyder Coal Co., Leroy												
No. 2 Buck Mountain Slope	IM	Schuylkill	280	5,998	3,340	11	9,629 u	7,950		280	8	-
Sorokach Coal Co.												
Sorokach Slope	IM	Schuylkill	444	2,774	1,524	66	4,808 i	1,300		252	4	-
Swatara Coal Co.												
Otto Bank	bk	Schuylkill	16,954	8,010	3,227	113	28,304 v	-		80	5	-
Westwood Coal Co.												
Westwood Slope	IM	Schuylkill	1,808	9,003	5,707	199	16,717 w	10,500	850	232	8	-
Woodside Mining Co.												
Buck Mountain Slope	DM	Schuylkill					a			46	2	-
<b>District Total</b>			<b>124,333</b>	<b>104,775</b>	<b>40,503</b>	<b>593</b>	<b>270,204</b>	<b>56,910</b>	<b>9,050</b>	<b>190</b>	<b>278</b>	<b>-</b>

- NOTE: (a) Maintenance work only.  
 (b) 2,158 tons prepared at Glenn Worth Breaker.  
 173 tons prepared at Old Mill Breaker.  
 1,398 tons prepared at B. & N. Breaker - District 18.  
 3,082 tons prepared at Live Oak Breaker.  
 201 tons prepared at K. & P. Breaker.  
 (c) All coal prepared at Maple Spring Breaker.

- (d) 1,096 tons prepared at DiRenzo Breaker.  
 4,573 tons prepared at Swatara Breaker - District 21.  
 (e) 1,152 tons prepared at Live Oak Breaker.  
 2,687 tons prepared at Olenick Breaker.  
 162 tons prepared at K. & P. Breaker.  
 (f) 563 tons prepared at Live Oak Breaker.  
 1,161 tons prepared at Minersville Breaker.  
 29 tons prepared at Olenick Breaker.  
 Ceased operations in September 1967.

		District 19				Production - net tons		Pounds			Fatal	Non-
Operators and Collieries		County	Shipped to market	Sold to	Used at	Total	permis-	Pounds	Days	Empl-	Fatal	fatal
			By	By	colliery		sible ex-	dynamite	worked	oves	acci-	acci-
			railroad	truck	for steam	production:	plosives	used			dents	dents
				local	and heat		used					
NOTE: (g)	400 tons prepared at Hillside Breaker - District 21.											
	1,036 tons prepared at B. & N. Breaker - District 18.											
	326 tons prepared at Glenn Worth Breaker.											
	1,730 tons prepared at Live Oak Breaker.											
	158 tons prepared at D. & Z. Breaker - District 24.											
	Ceased operations in October 1967.											
(h)	10,343 tons prepared at K. & P. Breaker.											
	7,278 tons prepared at Hillside Breaker - District 21.											
(i)	All coal prepared at Minersville Breaker.											
(j)	All coal prepared at Donaldson Breaker - District 30.											
(k)	464 tons prepared at B. & N. Breaker											
	103 tons prepared at Oakwood Breaker - District 30.											
	460 tons prepared at Live Oak Breaker.											
	Etzweiler Coal Co. produced 8 tons, worked 23 days, 4 men, used 125 pounds of explosives. Changed to Koch Coal Co. in May 1967.											
(l)	1,848 tons prepared at Olenick Breaker.											
	2,204 tons prepared at Swatara Breaker - District 21.											
	771 tons prepared at D. & Z. Breaker - District 24.											
	870 tons prepared at B. & N. Breaker - District 18.											
(m)	All coal prepared at Forestville Washery.											
(n)	All coal prepared at Lowland Washery.											
(o)	All coal prepared at DiRenzo Breaker.											
(p)	All coal prepared at New St. Nicholas Fine Coal Plant.											
(q)	All coal prepared at New St. Nicholas Breaker.											
(r)	1,527 tons prepared at Live Oak Breaker.											
	388 tons prepared at B. & N. Breaker - District 18.											
(s)	696 tons prepared at Swatara Breaker - District 21.											
	374 tons prepared at Donaldson Breaker - District 30.											
	25 tons prepared at Kocher Breaker - District 30.											
	123 tons prepared at Schneck Breaker - District 30.											
(t)	3,804 tons prepared at Old Mill Breaker.											
	2,519 tons prepared at Olenick Breaker.											
	378 tons prepared at Swatara Breaker - District 21.											
	1,765 tons prepared at Live Oak Breaker.											
(u)	220 tons prepared at Glenn Worth Breaker.											
	5,263 tons prepared at Old Mill Breaker.											
	246 tons prepared at Glenn Worth Breaker.											
	1,342 tons prepared at Franklin Breaker - District 30.											
	1,746 tons prepared at B. & N. Breaker - District 18.											
	203 tons prepared at Live Oak Breaker.											
	734 tons prepared at DiRenzo Breaker.											
	95 tons prepared at Underkoffler Breaker - District 12.											
(v)	All coal prepared at Swatara Breaker - District 21.											
(w)	14,392 tons prepared at Minersville Breaker.											
	2,325 tons prepared at K. & P. Breaker.											

		District 20				Production - net tons		Pounds			Fatal	Non-
Operators and Collieries		County	Shipped to market	Sold to	Used at	Total	permis-	Pounds	Days	Empl-	Fatal	fatal
			By	By	colliery		sible ex-	dynamite	worked	oves	acci-	acci-
			railroad	truck	for steam	production:	plosives	used			dents	dents
				local	and heat		used					
B. & B. Coal Co.												
No. 127 Slope	DM	Northumberland	1,696	700	269	27	2,692 a	2,100		185	5	-
Bridy Coal Co.												
Bridy Slope	IM	Northumberland	67	1,274	-	-	1,341 b	850		177	4	-
Bridy, Incorporated												
Atlas Washery	W	Northumberland								286	8	1
Burnrite Coal Co.												
No. 2 Lykens Vein Slope	DM	Columbia	266	12,930	1,609	18	14,823 c	7,500		272	7	-
D. R. Z. Coal Co.												
No. 4 Vein Slope	DM	Northumberland	66	1,255	-	-	1,321 d	975		133	3	-
Diamond Coal Co.												
Diamond Breaker	BP	Northumberland					*			283	25	-
Ennis Coal Co.												
Locust Run Slope	DM	Columbia	4,156	1,623	649	65	6,493 a	6,250		272	4	-
Gangloff Brothers												
Richards Bank	bk	Northumberland	281,000	-	-	-	281,000 e	-		248	7	-

**District 20**

**Production - net tons**

Operators and Collieries	County	Shipped to market :		Sold	Used at	Total	Pounds		Days	Fatal	Non-	
		By : railroad	By : truck	to local trade	colliery for steam and heat		permissible explosives used	dynamite used				accidents
Hanks Coal Co.												
No. 2 Slope No. 2 Lykens Vein	DM	Northumberland	992	-	2,797	33	3,822 f	2,950	-	267	4	-
Hepler Coal Co.												
Skidmore No. 1 & 2 Slopes	DM	Northumberland	1,218	503	193	19	1,933 a	1,200	-	79	5	-
K. & Z. Coal Co.												
No. 8 & 9 Vein Slope	DM	Northumberland	27	517	-	-	544 b	275	-	36	3	-
Kaleta Coal Co.												
No. 6 & 7 Vein Slope	DM	Northumberland	-	2,245	749	-	2,994 g	1,350	-	162	5	-
M. & P. Coal Co.												
Sayre Bank	bk	Northumberland	1,590	4,829	535	7	6,961 h	-	-	191	2	-
M. & S. Coal Co.												
Holmes Slope	DM	Columbia	-	2,960	980	-	3,940 g	2,500	-	250	4	-
M. & W. Coal Co.												
Merriam Slope	DM	Columbia	10,036	4,142	1,593	159	15,930 a	16,200	-	301	9	1
Morack Coal Co.												
Buck Slope	DM	Columbia	-	2,634	878	-	3,512 g	3,348	-	223	3	-
Poponiak Brothers Coal Co.												
No. 6 & 7 Vein Slope	DM	Northumberland	200	222	1,201	8	1,631 i	850	-	236	3	-
R. & L. Coal Co.												
Germantown Slope	DM	Columbia	2,059	850	327	33	3,269 a	1,650	-	120	4	-
Savitski Brothers Coal Sales												
Savitski Breaker	BP	Northumberland	-	-	-	-	-	-	-	269	6	-
No. 1 Shaft	DM	Northumberland	-	-	-	-	-	-	-	269	1	-
Total			-	-	-	-	-	-	-	-	7	-
Scott Coal Co.												
Seven Foot Vein Slope	DM	Columbia	1,233	509	196	20	1,958 a	1,050	-	210	3	-
State Coal Co.												
Pennsylvania Bank	bk	Northumberland	172,639	-	-	-	172,639	-	-	279	27	-
State Cleaning Plant	BP	Northumberland	-	-	-	-	-	-	-	279	17	-
Total			172,639	-	-	-	172,639 j	-	-	-	44	-
Swamp Coal Co.												
No. 9/2 Vein Slope	DM	Northumberland	34	700	-	1	735 k	650	-	199	3	-
District Total:			477,279	37,893	11,976	390	527,538	49,698	-	244	162	6

NOTE: (a) All coal prepared at Mammoth Breaker - District 26.  
 (b) All coal prepared at D. & Z. Breaker - District 24.  
 (c) 1,085 tons prepared at Hoover Breaker - District 24.  
 808 tons prepared at Ace Breaker - District 24.  
 12,930 tons sold direct to Merck Chemical Co.  
 (d) 210 tons prepared at Diamond Breaker.  
 1,111 tons prepared at D. & Z. Breaker - District 24.  
 (e) All coal shipped direct to Penna. Power & Light Co.  
 (f) 3,291 tons prepared at Hoover Breaker - District 24.  
 531 tons shipped direct to Penna. Power & Light Co.

**District 20**

**Production - net tons**

Operators and Collieries	County	Shipped to market :		Sold	Used at	Total	Pounds		Days	Fatal	Non-	
		By : railroad	By : truck	to local trade	colliery for steam and heat		permissible explosives used	dynamite used				accidents
NOTE: (g) All coal prepared at Swift Breaker - District 24.												
(h) 2,024 tons prepared at Ace Breaker - District 24.												
271 tons prepared at Split Vein Breaker - District 24.												
743 tons prepared at Diamond Breaker.												
3,923 tons prepared at Glen Burn Breaker - District 24.												
(i) 380 tons prepared at Diamond Breaker.												
1,251 tons prepared at Split Vein Breaker - District 24.												

**District 21**

B. & H. Coal Co.												
Bottom Split Slope	DM	Schuylkill	260	444	124	4	802 a	800	-	126	3	-
Dembinsky Coal Co.												
No. 3 Slope	DM	Schuylkill	267	1,922	1,253	41	3,483 b	3,500	-	233	4	-
Echo Coal Co.												
Echo Breaker	BP	Schuylkill	-	-	-	-	-	-	-	71	3	-
Falls Coal Co.												
Buck Mountain Slope	DM	Schuylkill	-	211	30	1	242 c	300	-	47	3	-
Good Spring Coal Co.												
Buck Mountain Slope	DM	Schuylkill	91	1,571	457	5	2,124 d	1,400	100	81	4	-
Haas Coal Co.												
No. 2 Slope	DM	Schuylkill	759	4,107	2,405	14	7,285 e	4,000	-	168	5	-
Hatter Coal Co.												
No. 1 Slope	DM	Schuylkill	725	9,701	1,446	-	11,872 f	12,000	300	264	8	1
Hegins Mining Co.												
Hillside Breaker	B	Schuylkill	-	-	-	-	-	-	-	300	6	-
No. 5 West Slope	DM	Schuylkill	-	10,568	7,448	18	18,034	18,050	500	302	14	1
Total			-	10,568	7,448	18	18,034 g	18,050	500	20	-	1
Herring Brothers Coal Co.												
Herring Slope	DM	Schuylkill	252	1,209	158	4	1,623 h	850	-	188	5	1
Industrial Coal Sales Co.												
Lincoln Bank	bk	Schuylkill	3,328	6,865	209	-	10,402 i	-	-	89	3	-
K. S. F. Coal Co.												
K. S. F. Slope	DM	Schuylkill	5,584	15,508	4,385	119	25,596 j	18,500	-	304	11	-
Klinger Coal Co.												
No. 1 Slope	DM	Schuylkill	791	2,108	1,820	7	4,726 k	2,200	-	267	3	-
Koons Coal Co., Marcus												
Koons Drift	DM	Schuylkill	375	1,384	279	6	2,044 l	800	-	213	3	-
L. E. H. Mining Co.												
L. E. H. Slope	DM	Schuylkill	42	5,517	3,784	12	9,355 m	5,500	-	241	5	1
M. & W. Coal Co.												
Orchard Slope	DM	Schuylkill	62	1,082	148	3	1,295 n	1,000	-	57	5	-
M. W. S. Coal Co.												
Holmes Slope	DM	Schuylkill	1,313	10,504	2,449	22	14,288 o	11,950	-	280	6	-

		District 21 Production - net tons					Pounds						
Operators and Collieries	County	Shipped to market		Sold	Used at	Total	permissible explosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non-fatal acci- dents	
		By railroad	By truck	to local trade	colliery for steam and heat								production
Manbeck Dredging Co., Inc.													
Lincoln Bank	bk Schuylkill	-	13,100	-	-	13,100	p	-	-	64	3	-	
Miller Coal Co.													
Miller Slope	DM Schuylkill	395	6,124	1,375	2	7,896	q	2,400	-	297	3	-	
Mountain Top Coal Co.													
Orchard Slope	DM Schuylkill	324	1,100	233	6	1,663	r	1,200	-	210	3	-	
Neumeister Coal Co., James													
No. 1 Slope	DM Schuylkill	35	8,138	9,267	32	17,472	s	7,500	400	291	8	-	
Panther Head Coal Co.													
Buck Mountain Drift	DM Schuylkill	-	-	-	-	-	t	100	50	9	3	-	
Phoenix Contracting Co., Inc.													
Lorberry Bank	bk Schuylkill	3,990	4,032	5,784	97	13,903	u	-	-	78	3	-	
Reichwein & Beury Coal Co.													
R. & B. Slope	DM Schuylkill	3,032	4,500	5,813	23	13,368	v	11,500	-	239	10	1	
Rekla Coal Co., Inc.													
No. 2 Slope	DM Schuylkill	-	184	26	1	211	w	200	50	60	3	-	
Reminger Coal Co., Inc.													
Buck Mountain Slope	DM Schuylkill	2,946	1,392	560	20	4,918	x	3,875	-	234	5	-	
S. & F. Coal Co.													
Primrose Slope	DM Schuylkill	1,419	5,176	3,238	1	9,834	y	6,200	-	221	5	-	
S. & M. Coal Co.													
No. 2 Slope	DM Schuylkill	610	6,615	5,278	26	12,529	z	15,000	-	288	7	-	
S. S. M. Coal Co.													
Tracy Vein Slope	DM Schuylkill	244	577	57	2	880	aa	600	-	73	3	-	
Schwartzlander Coal Co., Inc.													
No. 1 Slope	DM Schuylkill	2,731	5,110	946	34	8,821	bb	5,000	-	274	5	-	
Sharp Mountain Coal Co.													
Orchard Vein Drift	DM Schuylkill	200	1,153	151	3	1,507	cc	1,100	50	157	3	-	
Spancake & Herring Coal Co.													
Buck Mountain Slope	DM Schuylkill	2,384	9,484	1,513	53	13,434	dd	9,000	-	278	5	-	
Swatara Coal Co., Inc.													
Swatara Breaker	BP Schuylkill	-	-	-	-	-	-	-	-	289	24	-	
Tokarczek Coal Co.													
Tokarczek Slope	DM Schuylkill	1,040	2,623	2,437	8	6,108	ee	1,450	-	259	3	-	
Viola Coal Co.													
Viola-Pozza Mine	DM Schuylkill	677	487	230	5	1,399	ff	1,000	-	53	3	-	
Walaitis Coal Co.													
No. 2 Slope	DM Schuylkill	183	2,908	2,149	13	5,253	gg	3,850	-	203	4	-	
Woratyla Coal Co.													
Mammoth Slope	DM Schuylkill	2,041	4,686	4,382	29	11,138	hh	8,600	-	248	8	-	
Zimmerman Coal Co., Marlin													
Buck Mountain Slope	DM Schuylkill	5,514	16,086	3,447	85	25,132	ii	15,000	50	257	8	-	

		District 21 Production - net tons					Pounds						
Operators and Collieries	County	Shipped to market		Sold	Used at	Total	permissible explosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non-fatal acci- dents	
		By railroad	By truck	to local trade	colliery for steam and heat								production
District Total		41,614	166,146	73,281	696	281,737	174,425	1,500	227	210	1	4	

- NOTE: (a) 731 tons prepared at Kocher Breaker - District 16.  
 71 tons prepared at Oakwood Breaker - District 30.  
 (b) 2,911 tons prepared at Minersville Breaker - District 19.  
 572 tons prepared at Olenick Breaker - District 19.  
 (c) All coal prepared at Franklin Breaker - District 30.  
 Ceased operations in June 1967.  
 (d) 1,126 tons prepared at Legal Breaker - District 16.  
 243 tons prepared at Franklin Breaker - District 30.  
 755 tons prepared at Old Mill Breaker - District 19.  
 (e) 3,482 tons prepared at Old Mill Breaker - District 19.  
 1,673 tons prepared at Kocher Breaker - District 16.  
 253 tons prepared at B. & N. Breaker - District 18.  
 1,877 tons prepared at Hillside Breaker.  
 (f) All coal prepared at Superior Breaker - District 16.  
 (g) All coal prepared at Hillside Breaker.  
 (h) 1,356 tons prepared at Schneck Breaker - District 30.  
 267 tons prepared at Oakwood Breaker - District 30.  
 (i) All coal prepared at Donaldson Breaker - District 30.  
 (j) 4,121 tons prepared at Swatara Breaker.  
 225 tons prepared at Hillside Breaker.  
 8,358 tons prepared at Kocher Breaker - District 16.  
 9,314 tons prepared at Franklin Breaker - District 30.  
 984 tons prepared at Malho Breaker - District 26.  
 2,594 tons prepared at Legal Breaker - District 16.  
 (k) 990 tons prepared at Swatara Breaker.  
 1,801 tons prepared at Olenick Breaker - District 19.  
 348 tons prepared at Kocher Breaker - District 16.  
 72 tons prepared at Malho Breaker - District 26.  
 82 tons prepared at B. & N. Breaker - District 18.  
 1,433 tons prepared at Old Mill Breaker - District 19.  
 (l) 324 tons prepared at Donaldson Breaker - District 30.  
 209 tons prepared at Oakwood Breaker - District 30.  
 1,179 tons prepared at Schneck Breaker - District 30.  
 332 tons prepared at Pine Creek Breaker - District 12.  
 (m) 9,094 tons prepared at Hillside Breaker.  
 72 tons prepared at Superior Breaker - District 16.  
 47 tons prepared at Kocher Breaker - District 16.  
 95 tons prepared at Schneck Breaker - District 30.  
 (n) 1,166 tons prepared at Oakwood Breaker - District 30.  
 129 tons prepared at Donaldson Breaker - District 30.  
 Ceased operations in April 1967.  
 (o) 7,060 tons prepared at Schneck Breaker - District 30.  
 7,228 tons prepared at Swift Breaker - District 24.  
 (p) All coal sold unprepared to New Jersey Zinc Co.  
 (q) 1,416 tons prepared at Hillside Breaker.  
 6,480 tons prepared at Superior Breaker - District 16.  
 (r) 531 tons prepared at Swatara Breaker.  
 999 tons prepared at Franklin Breaker - District 30.  
 133 tons prepared at Old Mill Breaker - District 19.  
 (s) 12,611 tons prepared at Live Oak Breaker - District 19.  
 3,479 tons prepared at Malho Breaker - District 26.  
 1,382 tons prepared at Franklin Breaker - District 30.  
 (t) Worked 9 days, no production of coal.  
 (u) All coal prepared at Black Heath Breaker - District 19.  
 (v) 9,457 tons prepared at R. & B. Breaker - District 26.  
 3,911 tons prepared at Kocher Breaker - District 16.  
 Smith Coal Co. operated the mine 42 days, with 8 men,  
 produced 2,277 tons, used 2,000 pounds of explosives.  
 Changed to Reichwein & Beury in March 1967.  
 (w) All coal prepared at Franklin Breaker - District 30.  
 No production of coal after April, 1967.  
 (x) All coal prepared at Swatara Breaker.  
 (y) 237 tons prepared at Swatara Breaker.  
 1,855 tons prepared at Olenick Breaker - District 19.  
 1,817 tons prepared at Donaldson Breaker - District 30.  
 5,173 tons prepared at D. & Z. Breaker - District 24.  
 752 tons prepared at Old Mill Breaker - District 19.  
 (z) 687 tons prepared at Swatara Breaker.  
 2,789 tons prepared at DiRenzo Breaker - District 19.  
 2,548 tons prepared at Olenick Breaker - District 19.  
 3,923 tons prepared at Franklin Breaker - District 30.  
 1,038 tons prepared at K. & P. Breaker - District 19.  
 1,544 tons prepared at Live Oak Breaker - District 19.  
 (aa) 162 tons prepared at Schneck Breaker - District 30.  
 358 tons prepared at Oakwood Breaker - District 30.  
 360 tons prepared at Donaldson Breaker - District 30.

		District 21 Production - net tons					Pounds					Non-fatal	
Operators and Collieries		County		Shipped to market	Sold to	Used at	Total	permis-	Pounds	Days	Empl-	Fatal	fatal
		By	By	By	local	colliery		sible ex-	dynamite	worked	oves	acci-	acci-
		By	By	By	trade	for steam	production:	plosives	used	days		idents	idents
		railroad	truck:	local	and heat	and heat	production:	used	used	worked	oves	idents	idents
NOTE: (bb)	5,697 tons prepared at Kocher Breaker - District 16.						(gg)	3,568 tons prepared at K. & P. Breaker - District 19.					
	1,465 tons prepared at Donaldson Breaker - District 30.							199 tons prepared at Live Oak Breaker - District 19.					
	1,659 tons prepared at Frong Breaker - District 12.							26 tons prepared at Old Mill Breaker - District 19.					
(cc)	715 tons prepared at Schneck Breaker - District 30.						(hh)	1,460 tons prepared at Glenn Worth Breaker - District 19.					
	634 tons prepared at Oakwood Breaker - District 30.							3,140 tons prepared at Swatara Breaker.					
(dd)	128 tons prepared at Donaldson Breaker - District 30.							5,326 tons prepared at Olenick Breaker - District 19.					
	7,587 tons prepared at Schneck Breaker - District 30.							348 tons prepared at B. & N. Breaker - District 18.					
	2,732 tons prepared at Kocher Breaker - District 16.							1,231 tons prepared at Old Mill Breaker - District 19.					
(ee)	3,115 tons prepared at Franklin Breaker - District 30.						(ii)	1,093 tons prepared at Minersville Breaker - District 19.					
	138 tons prepared at Hillside Breaker.							17,368 tons prepared at Schneck Breaker - District 30.					
	1,626 tons prepared at Swatara Breaker.							5,563 tons prepared at Kocher Breaker - District 16.					
	2,901 tons prepared at Olenick Breaker - District 19.							1,469 tons prepared at Old Mill Breaker - District 19.					
	1,443 tons prepared at Old Mill Breaker - District 19.							712 tons prepared at Fenag Breaker - District 30.					
(ff)	1,110 tons prepared at Swatara Breaker.						*	Formerly operated by Tremont Anthracite Co., Inc. -					
	289 tons prepared at Old Mill Breaker - District 19.							changed to Echo Coal Co. on May 23, 1967.					
	Ceased operations in March 1967.												

		District 23					Pounds					Non-fatal	
Operators and Collieries		County		Shipped to market	Sold to	Used at	Total	permis-	Pounds	Days	Empl-	Fatal	fatal
		By	By	By	local	colliery		sible ex-	dynamite	worked	oves	acci-	acci-
		By	By	By	trade	for steam	production:	plosives	used	days		idents	idents
		railroad	truck:	local	and heat	and heat	production:	used	used	worked	oves	idents	idents
Al-Mar Coal Co.													
Holmes Slope	DM	Northumberland	50	1,051	35	-	1,136 a	740	-	129	)	-	-
No. 2 Slope	DM	Northumberland	145	2,745	-	-	2,890	1,730	-	187	)	-	-
Total			195	3,796	35	-	4,026 b	2,470	-			5	-
B. & B. Coal Co.													
No. 9 Vein T. S. Slope	DM	Northumberland	12	8	-	-	20 c	20	-	4	3	-	-
B. & S. Coal Co.													
Primrose S. D. Slope	DM	Northumberland	462	3,919	-	90	4,471 d	800	-	205	7	-	-
Bridy, Incorporated													
Excelsior Bank	bk	Northumberland	15,136	2,262	-	-	17,398 e	-	-	245	5	-	-
Chango Coal Co.													
Holmes Vein S. D. Slope	DM	Northumberland	444	8,438	-	-	8,882 b	7,000	-	228	6	-	-
Dunn Coal Co., Marlin													
No. 8 Vein Slope	DM	Northumberland	28	530	-	-	558 b	200	-	51	4	-	-
Else Coal Co.													
Skidmore Slope	IM	Northumberland	-	41	628	-	669 f	625	-	128	2	-	-
G. M. P. Coal Co.													
Mammoth Vein Tender Slope	IM	Northumberland	759	608	998	26	2,391 g	4,402	-	215	10	-	-
Locust Gap Bank	bk	Northumberland	5,418	3,071	1,575	-	10,064 h	-	-	126	4	-	-
Total			6,477	3,679	2,573	26	12,455	4,402	-		14	-	-
Lone Pine Coal Co.													
No. 4 Vein Slope	DM	Northumberland	205	3,894	-	-	4,099 b	1,600	-	263	3	-	-
Ralph Coal Co.													
No. 10 Vein Slope	DM	Northumberland	-	1,759	586	-	2,345 i	750	-	239	3	-	-

		District 23					Pounds					Non-fatal	
Operators and Collieries		County		Shipped to market	Sold to	Used at	Total	permis-	Pounds	Days	Empl-	Fatal	fatal
		By	By	By	local	colliery		sible ex-	dynamite	worked	oves	acci-	acci-
		By	By	By	trade	for steam	production:	plosives	used	days		idents	idents
		railroad	truck:	local	and heat	and heat	production:	used	used	worked	oves	idents	idents
Ranshaw Transportation & Auto Wreckers Co.													
Locust Gap Bank	bk	Northumberland	-	700	-	-	700 j	-	-	6	5	-	-
Reading Anthracite Co.													
Locust Summit Breaker	BP	Northumberland	-	-	-	-	- k	-	-	252	7	-	-
Sanders Coal Co.													
No. 9 Vein T. S. Slope	DM	Northumberland	166	3,146	-	-	3,312 b	950	-	274	4	-	-
Yanik Brothers													
No. 7 Vein Slope	IM	Northumberland	71	1,345	-	-	1,416 b	200	-	159	3	-	-
Zanella Brothers Coal Co.													
Primrose S. D. Slope	DM	Northumberland	1,214	6,270	1,146	68	8,698 l	6,950	-	302	6	-	-
District Total			24,110	39,787	4,968	184	69,049	25,967	-	201	77	-	-

NOTE: (a) Men and equipment transferred to No. 2 Slope in March 1967.

(b) All coal prepared at D. & Z. Breaker - District 24.

(c) All coal prepared at Diamond Breaker - District 20.

(d) 4,079 tons prepared at D. & Z. Breaker - District 24.

33 tons prepared at C. & J. Breaker - District 20.

559 tons prepared at Diamond Breaker - District 20.

(e) All coal prepared at Atlas Washery - District 20.

(f) 459 tons prepared at Split Vein Breaker - District 24.

180 tons prepared at Ace Breaker - District 24.

30 tons prepared at Swift Breaker - District 24.

(g) 1,262 tons prepared at Diamond Breaker - District 20.

47 tons prepared at C. & J. Breaker - District 20.

634 tons sold locally.

420 tons prepared at Malho Breaker - District 26.

28 tons prepared at Blaschak Breaker - District 26.

(h) 2,751 tons prepared at New St. Nicholas Fine Coal Plant - District 19.

5,135 tons prepared at Diamond Breaker - District 20.

1,129 tons prepared at Atlas Washery - District 20.

1,049 tons prepared at Malho Breaker - District 26.

(i) All coal prepared at Swift Breaker - District 24.

(j) All coal prepared at Ranshaw Washery - District 29.

(k) Bagging and loading coal which has been prepared at other breakers.

(l) 3,393 tons prepared at Legal Breaker - District 16.

754 tons prepared at Malho Breaker - District 26.

200 tons prepared at Atlas Washery - District 20.

3,849 tons prepared at D. & Z. Breaker - District 24.

302 tons prepared at Kopenhagen Breaker - District 24.

200 tons prepared at Ace Breaker - District 24.

		District 24					Pounds					Non-fatal	
Operators and Collieries		County		Shipped to market	Sold to	Used at	Total	permis-	Pounds	Days	Empl-	Fatal	fatal
		By	By	By	local	colliery		sible ex-	dynamite	worked	oves	acci-	acci-
		By	By	By	trade	for steam	production:	plosives	used	days		idents	idents
		railroad	truck:	local	and heat	and heat	production:	used	used	worked	oves	idents	idents
Ace Coal Sales													
Ace Breaker	BP	Northumberland	-	-	-	-	-	-	-	302	1	-	-
Bar Mac Coal Co.													
Bar Mac Breaker	BP	Northumberland	-	-	-	-	-	-	-	306	8	-	-
Clay Coal Co.													
No. 9 $\frac{1}{2}$ Vein N. D. Slope	DM	Northumberland	-	24	577	-	601 a	485	-	189	3	-	-
Czech Brothers Coal Co.													
No. 5 Vein S. D. Slope	IM	Northumberland	-	-	-	-	-	-	-	10	4	-	-
D. & Z. Coal Co.													
D. & Z. Breaker	BP	Northumberland	-	-	-	-	-	-	-	306	10	-	1
Diminick Coal Sales													
Diminick Breaker	BP	Northumberland	-	-	-	-	-	-	-	307	5	-	-

		District 24										
		Production - net tons						Pounds	Pounds	Days	Fatal	Non-
Operators and Collieries	County	Shipped to market :		Sold to local trade :	Used at colliery for steam and heat :	Total production :	permis- sible ex- plosives used :	dynamite used :	worked :	Empl- oves :	acci- dents :	fatal acci- dents :
		By railroad :	By truck :									
Dugan Coal Co.												
No. 11 Vein N. D. Slope	DM	Northumberland	420	3,076	-	-	3,496 b	1,525	-	218	3	-
Duke Associates												
No. 4 Rock Slope	IM	Northumberland	-	4,117	1,373	-	5,490 c	3,400	-	260	3	-
Eldy Coal Co.												
No. 1 Rock Slope	IM	Northumberland	1,604	11,759	-	-	13,363 b	6,830	-	300	7	-
Four Partners Coal Co.												
No. 9½ Vein N. D. Slope	DM	Northumberland	-	1,317	2,267	-	3,584 d	1,350	75	207	4	-
Glenn Brass Coal Co.												
Trenching Project	bk	Northumberland	521	822	30	12	1,385 e	-	-	83	1	-
Glen Burn Colliery, Inc.												
Glen Burn Breaker	B	Northumberland	-	-	-	-	-	-	-	179	54	-
Glosek Brothers Coal Sales												
Glosek Breaker	BP	Northumberland	-	-	-	-	-	*	-	270	5	-
Grego & Daitz Coal Co.												
No. 12 Vein N. D. Slope	DM	Northumberland	309	2,266	-	-	2,575 b	1,975	-	242	3	-
H. & S. Coal Co.												
West Drift	IM	Northumberland	11,303	22,605	2,552	-	36,460 f	27,950	-	232	37	-
Hoover Mining Co.												
Hoover Breaker	BP	Northumberland	-	-	-	-	-	-	-	307	3	-
K. & D. Coal Co.												
K. & D. Breaker	BP	Northumberland	-	-	-	-	-	-	-	298	3	-
Lower Region Colliery												
Lower Region Washery	W	Northumberland	-	-	-	-	-	-	-	305	8	-
Lytle Brothers Coal Co.												
No. 9 Vein N. D. Slope	IM	Northumberland	-	-	-	-	-	-	50	31	3	-
P. & S. Coal Co.												
No. 10 Vein N. D. Slope	IM	Northumberland	-	-	-	-	-	-	-	12	2	-
Ranshaw Transportation & Auto Wreckers Co.												
Neilson Bank	bk	Northumberland	-	16,320	-	165	16,485 g	-	-	158	2	-
Reidinger Coal Service, Inc.												
Reidinger Breaker	BP	Northumberland	-	-	-	-	-	-	-	298	8	-
Rosini Coal Co.												
Carbon Run Breaker	BP	Northumberland	-	-	-	-	-	-	-	266	13	-
Split Vein Coal Co., Inc.												
Split Vein Breaker	BP	Northumberland	-	-	-	-	-	-	-	306	17	-
Swift Coal Sales												
Swift Breaker	BP	Northumberland	-	-	-	-	-	-	-	307	7	-
<b>District Total</b>			14,157	62,306	6,799	177	83,439	43,515	125	237	214	-

		District 24										
		Production - net tons						Pounds	Pounds	Days	Fatal	Non-
Operators and Collieries	County	Shipped to market :		Sold to local trade :	Used at colliery for steam and heat :	Total production :	permis- sible ex- plosives used :	dynamite used :	worked :	Empl- oves :	acci- dents :	fatal acci- dents :
		By railroad :	By truck :									
NOTE: (a)	All coal prepared at Split Vein Breaker											
(b)	All coal prepared at Reidinger Breaker.											
(c)	All coal prepared at Swift Breaker.											
(d)	1,931 tons prepared at Split Vein Breaker.											
	1,653 tons prepared at Swift Breaker.											
*	Breaker destroyed by fire on July 7, 1967.											
(e)	285 tons prepared at D. & Z. Breaker.											
	500 tons prepared at Diamond Breaker - District 20.											
	174 tons prepared at Diminick Breaker.											
(f)	426 tons prepared at Glen Burn Breaker.											
(g)	All coal prepared at Glen Burn Breaker.											
	All coal prepared at Lower Region Washery.											

		District 26										
		Production - net tons						Pounds	Pounds	Days	Fatal	Non-
Operators and Collieries	County	Shipped to market :		Sold to local trade :	Used at colliery for steam and heat :	Total production :	permis- sible ex- plosives used :	dynamite used :	worked :	Empl- oves :	acci- dents :	fatal acci- dents :
		By railroad :	By truck :									
A. D. & G. Coal Co.												
Buck Mountain Slope	IM	Columbia	-	196	4,700	-	4,896 a	1,650	-	280	4	-
Alessi Coal Co.												
No. 1 Tunnel Drift	IM	Schuylkill	-	1,000	1,075	-	2,075 b	750	900	250	5	-
Ashland Community Enterprises, Inc.												
Pioneer Tunnel	IM	Schuylkill	-	-	-	-	- c	-	-	308	20	-
B-D Mining Co.												
Gilberton Bank	bk	Schuylkill	110,109	640	-	-	110,749	-	-	153	12	-
B-D Fine Coal Plant	W	Schuylkill	-	-	-	-	-	-	-	210	16	-
St. Nicholas Slush Bank	bk	Schuylkill	33,734	-	-	-	33,734	-	-	52	10	-
<b>Total</b>			143,843	640	-	-	144,483 d	-	-	-	38	-
Blaschak Brothers Coal Co.												
Skidmore Slope	IM	Schuylkill	-	-	-	-	- e	-	-	-	-	-
Blaschak Coal Co.												
Blaschak Breaker	B	Schuylkill	-	-	-	-	-	-	-	237	13	-
Botella Coal Co., James J.												
Packer No. 3 Bank	bk	Schuylkill	4,468	3,071	1,998	96	9,633 f	-	-	260	3	-
Brokenshire & Co.												
Buck Mountain Slope	IM	Schuylkill	-	20	78	-	98 g	25	-	20	4	-
Capparell Coal Co., Inc.												
Rosa Breaker	B	Schuylkill	-	-	-	-	-	-	-	252	39	-
Capparell Stripping & Construction Co., Inc.												
Kehley Run Bank	bk	Schuylkill	26,177	13,885	13,350	31	53,443	-	-	234	23	-
Packer No. 5 Bank	bk	Schuylkill	7,718	4,095	3,938	-	15,751	-	-	161	12	-
William Penn Bank	bk	Schuylkill	809	429	413	-	1,651	-	-	4	11	-
<b>Total</b>			34,704	18,409	17,701	31	70,845 h	-	-	-	46	-
DiCassimirro Contracting Co.												
Boston Run Bank	bk	Schuylkill	6,937	-	-	-	6,937	-	-	24	5	-
Hammond Bank	bk	Schuylkill	1,019	-	-	-	1,019	-	-	-	-	-
<b>Total</b>			7,956	-	-	-	7,956 d	-	-	-	-	-
Dyszel Coal Co.												
Buck Mountain Slope No. 1	IM	Schuylkill	143	832	445	15	1,435	1,800	-	260	2	-
Buck Mountain Slope No. 2	IM	Schuylkill	71	409	219	6	705	150	-	50	2	-
<b>Total</b>			214	1,241	664	21	2,140 i	1,950	-	-	4	-

District 26

Operators and Collieries	County	Production - net tons				Total production	Pounds : permisable ex-plosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non-fatal acci- dents
		Shipped to market : By : railroad	Sold to : By : truck	Used at colliery : local trade	Used at colliery : for steam and heat							
Forgotsch Brothers Coal Co.												
Buck Mountain Slope	DM Schuylkill	-	290	380	-	670 j	225	150	282	2	-	-
Forsum Coal Co., Inc.												
No. 6 Slope	DM Schuylkill	891	2,082	2,208	-	5,181	9,000	500	160	9)	-	-
No. 7 Slope	DM Schuylkill	-	5,092	2,853	-	7,945	9,000	600	104	)	-	-
Total		891	7,174	5,061	-	13,126 k	18,000	1,100	9	-	-	-
G. & B. Coal Co.												
Seven Foot Slope	DM Columbia	-	3,286	1,095	-	4,381 l	2,700	150	164	5	-	-
Gilberton Coal Co.												
Gilberton Breaker	B Schuylkill	-	-	-	-	- m	-	-	5	78	-	-
H. M. B. & P. Coal Co.												
Buck Mountain Slope	DM Schuylkill	461	189	82	-	732 n	300	-	110	4	-	-
Hard Top Coal Co., Inc.												
Buck Mountain Slope	DM Schuylkill	1,236	871	644	11	2,762 o	8,000	300	198	4	-	-
K. & C. Coal Co.												
Buck Mountain Slope	DM Schuylkill	-	200	130	-	330 l	225	-	70	2	-	-
K. & J. Coal Co.												
Centralia Bank	bk Columbia	582	152	236	-	970 n	-	-	85	2	-	-
Kerrigan Coal Co., Paul												
Kerrigan Fine Coal Plant	W Schuylkill	-	-	-	-	-	-	-	107	2	-	-
Millersville Bank	bk Schuylkill	2,277	337	-	-	2,614	-	-	107	1	-	-
Total		2,277	337	-	-	2,614 p	-	-	3	-	-	-
Lehigh Valley Anthracite, Inc.												
Mammoth Breaker	B Schuylkill	-	-	-	-	-	-	-	188	67	-	7
Morea Bank	bk Schuylkill	30,481	18,314	40,541	386	89,722	-	-	231	6	-	-
Morea Breaker	B Schuylkill	-	-	-	-	-	-	-	231	25	-	1
Total		30,481	18,314	40,541	386	89,722 q	-	-	98	-	-	8
Locust Valley Coal Co., Inc.												
Mahanoy City Bank	bk Schuylkill	5,165	13,953	1,710	-	20,828	-	-	141	2	-	-
Mount Hazle Breaker	B Schuylkill	-	-	-	-	-	-	-	141	8	-	-
Total		5,165	13,953	1,710	-	20,828 r	-	-	10	-	-	-
Maksimik Coal Co.												
Kehley Run Bank	bk Schuylkill	82	57	118	-	257 s	-	-	40	3	-	-
Malho Coal Co.												
Malho Breaker	B Schuylkill	-	-	-	-	-	-	-	302	4	-	1
Marion Mining Co., Inc.												
Comerxon Drift	DM Schuylkill	5,875	4,040	8,446	-	18,361	12,850	4,800	219	24	-	3
Comerton Cleaning Plant	BP Schuylkill	-	-	-	-	-	-	-	219	1	-	-
Total		5,875	4,040	8,446	-	18,361 s	12,850	4,800	25	-	-	3
Mickey Coal Co.												
Diamond Slope	DM Schuylkill	1,384	662	3,971	-	6,017 t	4,750	-	228	5	-	-
Olman & Co.												
Buck Mountain Slope	DM Schuylkill	-	-	1,000	32	1,032 u	450	-	235	3	-	-

District 26

Operators and Collieries	County	Production - net tons				Total production	Pounds : permisable ex-plosives used	Pounds dynamite used	Days worked	Empl- oves	Fatal acci- dents	Non-fatal acci- dents
		Shipped to market : By : railroad	Sold to : By : truck	Used at colliery : local trade	Used at colliery : for steam and heat							
Phoenix Contracting Co.												
Maizeville Bank	bk Schuylkill	-	592	5,325	-	5,917 v	-	-	67	3	-	1
Pleasant Hill Coal Co.												
Skidmore Drift	DM Schuylkill	-	1,009	4,039	-	5,048 w	950	-	230	6	-	-
Polcovich Coal Co.												
Seven Foot Slope	DM Columbia	5,593	2,308	932	44	8,877 n	10,650	-	245	8	-	1
Reading Anthracite Co.												
Maple Hill Cleaning Plant	BP Schuylkill	-	-	-	-	-	-	-	97	12	-	1
St. Nicholas Fine Coal Plant	W Schuylkill	-	-	-	-	-	-	-	202	41	-	5
St. Nicholas Slush Bank	bk Schuylkill	148,565	-	42	-	148,607	-	-	202	11	-	1
Total		148,565	-	42	-	148,607 x	-	-	54	-	-	7
Reichwein & Beury Coal Co.												
Reichwein & Beury Breaker	B Schuylkill	-	-	-	-	-	-	-	306	4	-	-
Skytop Coal Co., Inc.												
Skytop Bank	bk Schuylkill	1,289	-	-	-	1,289	-	-	19	5	-	-
Skytop Breaker	B Schuylkill	-	-	-	-	-	-	-	50	12	-	-
Maizeville Bank	bk Schuylkill	-	1,312	912	-	2,224	-	-	40	3	-	-
Iykens Slope	DM Schuylkill	-	-	-	-	-	-	-				
Total		1,289	1,312	912	-	3,513 y	-	-	20	-	-	-
Split Vein Coal Co., Inc.												
Buck Mountain Slope	DM Columbia	-	815	19,542	-	20,357	5,900	1,025	280	11	-	1
Germantown Bank	bk Columbia	-	566	13,590	-	14,156	-	-	136	2	-	5
Midvalley Silt Deposit	bk Columbia	-	320	7,688	-	8,008	-	-	38	2	-	-
Packer No. 5 Bank	bk Schuylkill	-	12	305	-	317	-	-	7	2	-	-
Total		-	1,713	41,125	-	42,838 a	5,900	1,025	17	-	-	1
Starwood Coal Corporation												
Starwood Breaker	B Schuylkill	-	-	-	-	-	-	-	315	5	-	-
Trenton Coal Co.												
Buck Mountain Slope	DM Schuylkill	-	30	100	-	130 z	150	100	84	3	-	-
White Birch Coal Co., Inc.												
Buck Mountain Slope	DM Schuylkill	-	-	-	-	- c	-	-	48	2	-	-
District Total		395,066	81,066	142,105	621	618,858	69,525	8,525	166	570	-	38

NOTE: (a) All coal prepared at Split Vein Breaker - District 24.  
 (b) All coal prepared at Mazaika Breaker - District 15.  
 Jones Coal Co. operated the mine to June, 1967, produced 998 tons, worked 103 days, same men.  
 (c) No production.  
 (d) All coal prepared at B-D Fine Coal Plant. Formerly operated by Gilberton Coal Co.

(e) Slope used for pumping only.  
 (f) 4,343 tons prepared at Blaschak Breaker.  
 5,290 tons prepared at Diamond Breaker - District 20  
 (g) All coal prepared at Starwood Breaker.  
 Ceased operations in January 1967.  
 (h) All coal prepared at Rosa Breaker.  
 (i) All coal prepared at Reichwein & Beury Breaker.

District 26

Operators and Collieries	County	Production - net tons					Total production	Pounds permisible explosives used	Pounds dynamite used	Days worked	Empl-oves	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to local trade	Used at colliery for steam and heat	Pounds permisible explosives used							
		By railroad	By truck										
NOTE: (j) 339 tons prepared at Skytop Breaker.						(q) All coal prepared at Morea Breaker.							
(k) 271 tons prepared at Starwood Breaker.						(r) All coal prepared at Mount Hazle Breaker							
5,746 tons prepared at Starwood Breaker.						(s) All coal prepared at Elashak Breaker.							
1,302 tons prepared at Gilberton Breaker.						(t) All coal prepared at Malho Breaker.							
720 tons prepared at Skytop Breaker.						(u) All coal prepared at Mountain Side Breaker - District 18.							
5,358 tons prepared at D. & Z. Breaker - District 24.						(v) All coal prepared at Black Heath Breaker - District 19.							
(l) All coal prepared at Swift Breaker - District 24.						(w) All coal prepared at Starwood Breaker.							
(m) Ceased operations in January 1967.						(x) All coal prepared at St. Nicholas Fine Coal Plant.							
(n) All coal prepared at Mammoth Breaker.						(y) 1,289 tons prepared at E-D Fine Coal Plant.							
(o) 1,963 tons prepared at Mammoth Breaker.						2,224 tons prepared at Skytop Breaker.							
156 tons prepared by Skytop Breaker.						(z) All coal prepared at Valley Breaker - District 15.							
229 tons prepared at Starwood Breaker.													
223 tons prepared at D. & Z. Breaker - District 24.													
191 tons prepared at Live Oak Breaker - District 19													
(p) All coal prepared at Kerrigan Fine Coal Plant.													

District 28

Operators and Collieries	County	Production - net tons					Total production	Pounds permisible explosives used	Pounds dynamite used	Days worked	Empl-oves	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to local trade	Used at colliery for steam and heat	Pounds permisible explosives used							
		By railroad	By truck										
Alarcon Coal Co. No. 3 Slope	DM Northumberland	6,635	11,298	3,805	58	21,796 a	750	-	312	13	-	-	
B. & B. Coal Co. No. 2 Slope	DM Northumberland	501	7,004	501	2	8,008 b	1,150	-	240	5	-	-	
Bell Coal Co. No. 4 Slope	DM Northumberland	336	4,648	449	-	5,433 c	2,175	-	234	4	-	-	
D. & S. Coal Co. Zero Vein Slope	DM Northumberland	-	11,000	437	-	11,437 d	1,600	-	306	5	-	-	
E. & T. Coal Co. No. 2 Slope	DM Northumberland	-	7,000	649	-	7,649 e	10,000	-	301	8	-	2	
Garcia Coal Co. No. 4 Slope	DM Northumberland	120	1,572	158	-	1,850 c *	500	-	60	6	-	-	
K. & K. Coal Co. No. 5 Vein Rock Slope	DM Northumberland	-	526	-	-	526 f	1,300	-	208	3	-	-	
Kerstetter Coal Co. Zero Vein Slope	DM Northumberland	68	975	97	-	1,140 c *	500	-	82	4	-	-	
L. & M. Coal Co. Zero Vein Slope	DM Northumberland	610	8,425	817	1	9,853 c	2,675	-	281	5	-	3	
Lotus Coal Co. No. 3 Slope	DM Northumberland	120	2,274	-	-	2,394 g	725	255	260	2	-	-	
Maurer Coal Co., Paul F. Zero Vein Slope	DM Northumberland	498	6,800	700	2	8,000 c	1,500	-	230	4	-	-	
Mayton Brothers Coal Co. No. 9 Vein Slope	DM Northumberland	42	812	-	-	854 g *	450	-	120	4	-	-	
Mountain View Coal Co. No. 1 Slope	DM Northumberland	-	9,886	3,294	-	13,180 c h	1,675	-	269	5	-	1	

District 28

Operators and Collieries	County	Production - net tons					Total production	Pounds permisible explosives used	Pounds dynamite used	Days worked	Empl-oves	Fatal acci-dents	Non-fatal acci-dents
		Shipped to market		Sold to local trade	Used at colliery for steam and heat	Pounds permisible explosives used							
		By railroad	By truck										
No. 1 Coal Mine No. 1 Slope	DM Northumberland	608	8,714	810	1	10,133 c	4,950	50	301	5	-	-	
P. & R. Coal Co. No. 5 Vein Rock Slope	DM Northumberland	-	93	2,200	-	2,293 i	660	-	239	3	-	-	
R. B. F. Coal Co. Cole Run Bank	DM Northumberland	1,435	12,251	-	-	13,686 j	-	-	102	4	-	-	
S. & C. Coal Co. No. 4 Slope	DM Northumberland	320	4,524	431	3	5,278 c k	2,150	-	351	4	-	-	
Slo-Burn Coal Co., Inc. No. 2 Slope	DM Northumberland	119	-	1,270	-	1,389 l *	500	-	43	7	-	-	
Split Vein Coal Co., Inc. Trevorton Slope	DM Northumberland	-	359	8,599	-	8,958 l	7,500	-	271	4	-	-	
Sunshine Coal Co. Sunshine Breaker	BP Northumberland	-	-	-	-	-	-	-	299	13	-	2	
Twin Oaks Coal Co. No. 4 Slope	DM Northumberland	196	2,589	258	1	3,044 c	2,750	-	271	3	-	-	
W. & S. Coal Co. Zero Vein Slope	DM Northumberland	154	2,202	204	-	2,560 c *	1,100	-	120	4	-	-	
Wehry Coal Co., Paul No. 5 Vein Rock Slope	DM Northumberland	-	510	-	-	510 g	200	-	152	3	-	-	
West Cameron Coal Co. No. 2 Slope	DM Northumberland	-	6,235	746	-	6,981 m	5,800	-	241	4	-	1	
District Total		11,762	109,697	25,425	68	146,952	50,610	305	231	122	-	9	

- NOTE: (a) All coal prepared at Carbon Run Breaker - District 24.  
 (b) 1,413 tons prepared at Carbon Run Breaker - District 24.  
 6,468 tons prepared at Sunshine Breaker.  
 (c) 300 tons prepared at K. & D. Breaker - District 24.  
 (d) All coal prepared at Sunshine Breaker.  
 11,000 tons prepared at Ace Coal Sales - District 24.  
 437 tons prepared at D. & Z. Breaker - District 24.  
 (e) 7,000 tons shipped to Keystone Filler Co.  
 649 tons prepared at D. & Z. Breaker - District 24.  
 (f) All coal prepared at K. & D. Breaker - District 24.  
 (g) All coal prepared at D. & Z. Breaker - District 24.  
 (h) H. & W. Coal Co. produced 8,425 tons of this coal, worked 161 days, with 7 men, used 750 pounds of explosives. Changed to Mountain View Coal Co. in August, 1967.  
 (i) 1,800 tons prepared at C. & J. Breaker - District 20.  
 493 tons prepared at Split Vein Breaker - District 24.  
 (j) 10,008 tons prepared at Split Vein Breaker - District 24.  
 668 tons prepared at D. & Z. Breaker - District 24.  
 964 tons prepared at Sunshine Breaker.  
 462 tons prepared at Savitski Breaker - District 20.  
 549 tons prepared at Diminick Breaker - District 24.  
 1,035 shipped to Penna. Power & Light Co., Sunbury, Pa.  
 (k) M. G. & S. Coal Co. produced 2,618 tons of this coal, worked 239 days, with 3 men, used 950 pounds of explosives. Changed to S. & C. Coal Co. in August 1967.  
 (l) All coal prepared at Split Vein Breaker - District 24.  
 (m) 2,981 tons prepared at Swift Breaker - District 24.  
 4,000 tons shipped to Merck Chemical Co., Danville, Pa.  
 \* Mines finished operations during 1967.



		District 29										
		Production - net tons					Pounds					
Operators and Collieries	County	Shipped to market		Sold	Used at	Total	permissible explosives used	Pounds dynamite used	Days worked	Empl-oves	Fatal acci-dents	Non-fatal acci-dents
		By railroad	By truck	to local trade	to colliery for steam and heat							
Cains Coal Co.												
Cains Breaker	BP Northumberland	-	-	-	-	-	-	-	229	4	-	-
D. V. W. Coal Co.												
No. 14 Vein Drift	DM Northumberland	-	84	-	-	84 a	50	-	15	3	-	-
K. K. & E. Coal Co.												
No. 11 Vein N. D. Slope	DM Northumberland	-	2,055	-	7	2,062 b	350	550	273	3	-	-
Motto Partnership												
No. 10 Vein Slope	DM Northumberland	-	2,119	-	5	2,124 c	1,800	-	272	2	-	-
Pine Line Coal Co.												
No. 9 1/2 Vein Drift	DM Northumberland	-	4,036	-	-	4,036 d	2,350	400	259	5	-	-
Ranshaw Transportation & Auto Wreckers Co.												
Luke Fidler Bank	bk Northumberland	-	20,616	-	-	20,616	-	-	125	5	-	-
Ranshaw Washery	W Northumberland	-	-	-	-	-	-	-	303	2	-	-
Total		-	20,616	-	-	20,616 e	-	-	-	7	-	-
Windsor Coal Co.												
No. 9 1/2 Vein Drift	DM Northumberland	-	-	-	-	- f	-	-	53	1	-	-
District Total		-	28,910	-	12	28,922	4,550	950	196	25	-	-

NOTE: (a) All coal prepared at Split Vein Breaker - District 24.  
 (b) All coal prepared at Swift Breaker - District 24.  
 K. H. & N. Coal Co. operated the mine from January 1, 1967 to March 31, 1967, produced 74 tons, worked 115 days, with 3 men. Changed to K. K. & S. Coal Co. on April 1, 1967 and operated until July 1, 1967, produced 1,098 tons, worked 91 days, same men. Changed to K. K. & E. Coal Co. on August 1, 1967, produced 883 tons, worked 67 days, same men.

(c) All coal prepared at D. & Z. Breaker - District 24.  
 (d) All coal prepared at Glen Burn Breaker - District 24.  
 (e) Coal shipped to Penna. Power & Light Co., Sunbury, Pa.  
 (f) No production - maintenance only.

		District 30										
		Production - net tons					Pounds					
Operators and Collieries	County	Shipped to market		Sold	Used at	Total	permissible explosives used	Pounds dynamite used	Days worked	Empl-oves	Fatal acci-dents	Non-fatal acci-dents
		By railroad	By truck	to local trade	to colliery for steam and heat							
Bloch Brothers Coal Co.												
No. 1 Slope	DM Schuylkill	117	784	362	1	1,264 a	500	-	55	3	-	-
Bowman & Coleman Coal Co.												
No. 4 Slope	DM Schuylkill	40	799	269	3	1,111 b	425	-	55	3	-	-
Colket Coal Co.												
No. 2 Slope	DM Schuylkill	185	4,669	654	5	5,513 c	5,000	-	240	3	-	-
Faust Coal Co.												
Faust Slope	DM Schuylkill	-	46	7	-	53 d	150	-	35	2	-	-
Franklin Coal Co.												
Franklin Hydrotated Breaker	BP Schuylkill	-	-	-	-	-	-	-	197	10	-	-
G. & T. Coal Co.												
Little Tracy Slope	DM Schuylkill	547	570	22	-	1,139 e	450	-	49	3	-	-

		District 30										
		Production - net tons					Pounds					
Operators and Collieries	County	Shipped to market		Sold	Used at	Total	permissible explosives used	Pounds dynamite used	Days worked	Empl-oves	Fatal acci-dents	Non-fatal acci-dents
		By railroad	By truck	to local trade	to colliery for steam and heat							
H. & S. Coal Co.												
No. 1 Slope	DM Schuylkill	-	7,106	1,026	8	8,140 f	2,750	-	258	4	-	-
Haldeman Coal Co.												
Diamond Slope	DM Schuylkill	-	830	120	1	951 f	350	-	35	4	-	-
Industrial Coal Sales Co.												
Donaldson Breaker	BP Schuylkill	-	-	-	-	- g	-	-	98	13	-	1
Mercury Coal Co., Inc.												
No. 4 Slope	DM Schuylkill	9,041	37,572	9,852	97	56,562	31,800	-	300	35	-	4
Primrose Slope	DM Schuylkill	8,021	12,496	4,702	131	25,350	10,300	-	304	17	-	2
Total		17,062	50,068	14,554	228	81,912 h	42,100	-	-	52	-	6
Oakwood Coal Co., Inc.												
Oakwood Breaker	BP Schuylkill	-	-	-	-	-	-	-	302	9	-	-
Penag Coal Co.												
Penag Breaker	B Schuylkill	-	-	-	-	-	-	-	225	28	-	3
Penag Colliery	DM Schuylkill	7,482	744	14,875	-	23,101	3,925	-	120	21	-	3
Total		7,482	744	14,875	-	23,101 i	3,925	-	-	49	-	6
S. B. K. Coal Co.												
Buck Mountain Slope	DM Schuylkill	158	150	543	2	853 j	300	-	51	3	-	-
Schneck Coal Co., Thomas W. Schneck Breaker	BP Schuylkill	-	-	-	-	-	-	-	317	8	-	-
District Total		25,591	65,766	32,432	248	124,037	55,950	-	214	166	-	13

NOTE: (a) 80 tons prepared at Donaldson Breaker.  
 905 tons prepared at D. & Z. Breaker - District 24.  
 279 tons prepared at Legal Breaker - District 16.  
 (b) 452 tons prepared at Pine Creek Breaker - District 12.  
 659 tons prepared at Superior Breaker - District 16.  
 (c) 385 tons prepared at Donaldson Breaker.  
 5,128 tons prepared at Oakwood Breaker.  
 (d) All coal prepared at Franklin Breaker.  
 (e) All coal prepared at Donaldson Breaker.  
 (f) All coal prepared at Oakwood Breaker.  
 (g) Donaldson Breaker operated by Anthracite Fine Coals, Inc. from January to March 1967, worked 40 days, with 18 men. Changed to Industrial Coal Sales Co. in September, 1967.

(h) 2,085 tons prepared at Donaldson Breaker.  
 34,562 tons prepared at Superior Breaker - District 16.  
 37,922 tons prepared at Kocher Breaker - District 16.  
 3,808 tons prepared at DiRenzo Breaker - District 19.  
 3,535 tons prepared at D. & Z. Breaker - District 24.  
 (i) 22,920 tons prepared at Penag Breaker.  
 181 tons prepared at Reidinger Breaker - District 24.  
 Penag No. 3 Slope closed June 1, 1967.  
 (j) 424 tons prepared at Penag Breaker.  
 128 tons prepared at Oakwood Breaker.  
 57 tons prepared at Kocher Breaker - District 16.  
 244 tons prepared at Underkoffler Breaker - District 12.

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# DIRECTORY

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF MINES AND MINERAL INDUSTRIES

			Zip Code	Area Code	Phone No.
<u>EXECUTIVE OFFICE</u>					
Dr. H. Beecher Charnbury Secretary	Towne House Apt. 660 Boas Street	Harrisburg	17102	717	787-4686 787-4687 787-4688
Home:	222 East Irvin Avenue	State College	16801	814	237-4726
Mrs. M. B. Gutshall Ex. Deputy Secretary	Towne House Apt. 660 Boas Street	Harrisburg	17102	717	787-4686 787-4687 787-4688
Home:	2958 Lincoln Street	Camp Hill	17011	717	737-9895
Ralph Lambert Chief Engineer	Towne House Apt. 3330 Highland Street	Harrisburg Allentown	17102 18104	717 215	787-4805 395-4585
Leon Ehrlich Deputy Atty Gen'l	Towne House Apt. 146 N. Sixth Street	Harrisburg	17102	717	787-5054
Office:	146 N. Sixth Street	Reading	19601	215	376-1525
Home:	1114 Reading Blvd.	Wyomissing	19610	215	372-1414
J. Wes Blakely Infor. Specialist	Towne House Apt. 580 Ruple Road	Harrisburg Camp Hill	17102 17011	717	787-4617 232-0330
Ralph J. Down, Director Admin. Services	Towne House Apt. 500 Echo Road	Harrisburg Camp Hill	17102 17011	717	787-5415 236-5287
C. J. Goetz, Ass't Director Admin. Services	Towne House Apt.	Harrisburg	17102	717	787-6287
Nick Monatesti Personnel Supervisor	Towne House Apt.	Harrisburg	17102	717	787-3197
Jos. Unitis, Budget Analyst	Towne House Apt.	Harrisburg	17102	717	787-5485
Nick Laukaitis Procurement Officer	Towne House Apt.	Harrisburg	17102	717	787-2471
Edward Durkin, Comptroller	Towne House Apt.	Harrisburg	17102	717	787-5953
Catherine Miles Statistical Supervisor	Towne House Apt.	Harrisburg	17102	717	787-4876
<u>BUREAU OF RESEARCH AND DEVELOPMENT</u>					
Dr. David R. Maneval Director	Towne House Apt. 1867 North Oak Lane	Harrisburg State College	17102 16801	717 814	787-5104 238-0977
<u>APPALACHIA PROGRAM</u>					
Carl Peterson Director	Towne House Apt. 153 West Maple Avenue	Harrisburg Hershey	17102 17033	717	787-4345 533-9037
<u>COAL MINE SUBSIDENCE INSURANCE FUND</u>					
Chester Gornley Director	Towne House Apt. 3641 Brisban Street	Harrisburg Harrisburg	17102 17111	717	787-5565 564-2777
<u>OIL AND GAS CONSERVATION COMMISSION</u>					
R. J. Hartman, Secretary	1708 Benedum Trees Bldg.	Pittsburgh	15222	412	565-5392
<u>OIL AND GAS DIVISION</u>					
W. Roy Cunningham Deputy Secretary	1205 State Office Bldg. 919 Harlan Avenue	Pittsburgh Johnstown	15222 15905	412 814	565-5075 299-2812
<u>Oil and Gas Inspectors</u>					
Dis- trict					
1	Charles C. Songer	P. O. Box 277	Pittsfield	16340	814 563-7853
2	Howard W. Martin	321 N. Eighth Street	Indiana	15701	412 463-0590
3	Charles E. Baldwin	P. O. Box 26	Washington	15301	412 222-3295
4	Wm. J. Burns, Jr.	335 No. Barnett Street	Brookville	15825	814 849-3445
5	Charles F. Straub	408 No. Main St., Box 141	Coudersport	16915	814 274-8840
6	Richard F. Walther	630 Southview Drive	Pittsburgh	15226	412 563-3656
7	William E. Sleeman	R. D. 5	Butler	16001	412 287-1210
8	Charles Updegraff	Port Allegany Road	Coudersport	16915	814 274-9196

			Zip Code	Area Code	Phone No.
<u>ANTHRACITE DIVISION</u>					
Gordon E. Smith Deputy Secretary	Motor Contracts Corp. Bldg. Rm. 2A - 108 S. Claude A. Lord Boulevard	Pottsville	17901	717	622-1110
Home:	161 Avenue "C"	Schuylkill Haven	17972	717	385-0023
H. R. Reese, Director Deep Mine Safety	Motor Contracts Corp. Bldg. R. D. 1, Box 146	Pottsville Elysburg	17901 17824	717	622-1110 672-2853
Rodger J. Howell, Director Bureau of Engr.	90 East Union Street 417 W. Atherton Avenue	Wilkes-Barre Taylor	18701 18517	717	822-9150 562-1660
Roy Unger, Office Mgr. Pottsville	Motor Contracts Corp. Bldg.	Pottsville	17901	717	622-1110
John Harris, Office Mgr. Wilkes-Barre	90 E. Union Street	Wilkes-Barre	18701	717	822-9150
<u>ANTHRACITE CONSERVATION AND RECLAMATION</u>					
Wesley I. Stonebraker	Motor Contracts Corp. Bldg. 3117 Yale Avenue	Pottsville Camp Hill	17901 17011	717	622-1110 761-1751
<u>COAL MINE SUBSIDENCE INSURANCE FUND</u>					
Harold Alleman, Manager	90 East Union Street	Wilkes-Barre	18701	717	824-9871
<u>Anthracite Mine Inspectors</u>					
Dis- trict					
1	T. M. Beaney*	366 Monument Avenue	Wyoming	18644	717 693-0222
2	R. O. Schneider*	216 North Ninth Street	Ashland	17921	717 875-1861
3	J. R. Ruane*	928 No. Washington Street	Shamokin	17872	717 648-0262
4	Walter Davis*	1900 West End Avenue	Pottsville	17901	717 622-4107
10	W. A. Sanders	R. D. 2	Dalton	18414	717 563-1945
11	G. F. Kettle	1318 Wyoming Avenue	Forty Fort	18704	717 288-6351
12	G. R. Sterling	Community Square	Buck Run	17926	717 544-5262
13	W. R. Devens	38 Butler Street	Forty Fort	18704	717 287-4576
15	A. A. Joyce	317 S. Maple Street	Mt. Carmel	17851	717 339-0514
16	F. C. O'Connor	R. D. 2, Box 370	Pottsville	17901	717 544-2573
17	C. E. Kashner	904 West Spruce Street	Shamokin	17872	717 648-3792
18	J. J. Shober, Jr.	64 East Railroad Street	Nesquehoning	18240	717 669-6048
19	A. J. Latz	9 West Phillips Street	Coaldale	18218	717 645-5727
20	A. E. Hand, Acting		Hegins	17938	717 682-3284
21	C. E. Miller		Muir	17957	717 647-9239
23	G. P. Gallagher	103 East Arch Street	Shamokin	17872	717 648-3887
24	A. E. Hand		Hegins	17938	717 682-3284
26	P. P. Hino	108 East Mahanoy Street	Mahanoy City	17948	717 773-3694
28	Leon Brass	107 South Walnut Street	Mt. Carmel	17851	717 339-4152
29	H. R. Reese	R. D. 1, Box 146	Elysburg	17824	717 672-2853
30	W. D. Maurer	25 Vaux Avenue	Tremont	17981	717 695-3672
<u>Electrical Inspectors</u>					
Michael J. Polinko	1211 Chestnut Street	Kulpmont	17834	717	373-9449
Donald Sandherr	402 Fleet Street	Pottsville	17901	717	622-4955
William Buggy	829 West Independent St.	Shamokin	17872	717	648-0356
<u>Waste Disposal Investigators</u>					
John H. Bowman	1715 North Vine Street	Berwick	18603	717	752-3884
John J. Lavix	44 Union Street	Hudson	18705	717	823-4407
Albert Lipperini	117 Parsonage Street	Pittston	18640	717	654-6163
George Berger	424 Spring Street	Frackville	17931	717	874-1132
<u>Mine Rescue &amp; First Aid</u>					
Charles W. Jones	231 West Main Street	Girardville	17935	717	276-6353
Stephen Matsick	617 East Patterson Street	Lansford	18232	717	645-4256

\* Anthracite Strip Mine Inspectors.

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF MINES AND MINERAL INDUSTRIES

## ANTHRACITE OPERATORS - YEAR 1967

Dis- trict	Operator	General Manager	Address	Zip Code
18	A. & D. Coal Co. IM	A. Androkitis	310 Elizabeth St.	Tamaqua 18252
26	A. D. & G. Coal Co. DM	J. Alameda	P. O. Box 293	Mt. Carmel 17851
12	A. & J. Coal Co. IM	A. Drebitko	West West Terrace	Pottsville 18452
12	A. & P. Coal Co. IM	Joseph Reho	130 W. Broad St.	Williamstown 17098
10	Ace Anthracite, Inc. B bk	J. Pasternak	419 Center Street	Taylor 18517
10	Ace Coal Co. B	L. Simoncelli	300 Main Street	Blakely 18512
24	Ace Coal Sales BP	Walter Mudry	1349 Chestnut St.	Kulpmont 17851
12	Acme Coal Co. DM	Joseph Reho	130 W. Broad St.	Williamstown 17098
1	Airport Sand & Gravel Co. S	Frank Sgarlet	Swetland Avenue	Wyoming 18702
28	Alarcon Coal Co. IM	Frank Alarcon	402 Melrose St.	Keiser 17832
26	Alessi Coal Co. IM	Natale Alessi	722 E. Railroad St.	Mahanoy City 17948
23	Al-Mar Coal Co. IM	Albert Deitz	436 W. Third St.	Mt. Carmel 17851
1	Altieri & Benzeleski S	John Vitali	434 Phelps Street	Scranton 18509
16	Anspach & Umbenhauer IM	Fred Anspach	R. D. 1	Pine Grove 17963
4	Anthracite Fine Coals, Inc. S	R. E. Doebler		Tremont 17981
15	Archer Coal Co. B	G. M. Seiler	109 E. First St.	Hazleton 18201
26	Ashland Community Enterprises DM	E. R. Ermert	702 Center Street	Ashland 17921
20	B. & B. Coal Co. IM	A. Bislarski	37 Big Mine Run	Ashland 17921
23	B. & B. Coal Co. DM	N. Anascavage	374 Tharp Street	Shamokin 17872
28	B. & B. Coal Co. DM	Frank Barella	540 W. Third St.	Mt. Carmel 17851
16	B. & C. Coal Co. IM	Willard Clark	Valley View	17983
26	B-D Mining Co. W bk	G. A. Schnee	Gilberton	17934
17	B. & E. Coal Co. IM	David Ernest	643 Center Street	Shamokin 17872
21	B. & H. Coal Co. IM	Eugene Hawk	R. D. 3	Pine Grove 17963
16	B. & M. Coal Co. DM	Wayne Moyer	Valley View	17983
18	B. & N. Coal Co. BP	Daniel Koury	1038 Laurel Street	Pottsville 18452
12	B. & P. Coal Co. IM	W. D. Showers	W. Market Street	Williamstown 17098
23	B. & S. Coal Co. IM	Leo Bloscoovich	1124 W. Montgomery	Shamokin 17872
17	Bank Coal Co. DM	Harold Weikel	24 S. Sixth Street	Shamokin 17872
24	Bar-Mac Coal Co., Inc. BP	Charles Greco	Box 412	Mt. Carmel 17851
11-13	Bartoli Construction Co. bk	Eugene Bartoli	559 E. Northampton	Wilkes-Barre 18702
18	Bear Ridge Coal Co. IM	Peter Smertsy	125 N. 4th Street	Frackville 17931
15	Beaverbrook Coal Co., Inc. BP	George Huss	W. Main Street	Ringtown 17967
4	Bell Coal Co. S	A. Kovalchick	Box 251	Brookton 17925
28	Bell Coal Co. DM	Michael Stasik	551 Market Street	Trevorton 17881
4-18	Bernitsky Brothers Coal Co. S IM	J. J. Bernitsky	17 Water Street	New Phila. 17959
18	Bernitsky & Stenulis Partnership IM	George Stenulis	17 Water Street	New Phila. 17959
15	Big Buck Coal Co. B IM	Edward Kalinovich	37 Main Street	Freeland 18224
19	Big Hill Coal Co. DM	Joseph Zukowski		Minersville 17954
26	Elaschak Brothers Coal Co. B DM	John Elaschak	St. Nicholas	Mahanoy City 17948
1	Eliss Coal Co. S	Carl Eliss	P. O. Box 345	Mildred 18632
4	Blue Bell Enterprises, Inc. S	J. W. Butcavage	720 Lytle Street	Minersville 17954
1-10-11-				
13-15	Blue Coal Corporation B S bk DM	D. H. Thomas	101 S. Main Street	Ashley 18706
30	Bloch Brothers Coal Co. IM	Harold Bloch	R. D. 2	Hegins 17938
19	Bosack Coal Co. DM	Frank Bosack, Jr.	R. D. 2, Box 788	Pottsville 17901
26	Botella Coal Co., James bk	J. J. Botella	117 William Street	Girardville 17935
30	Bowman & Coleman Coal Co. IM	Henry Bowman		Sacramento 17968
20	Bridy Coal Co. DM	Gilbert Bridy	Box 195 1/2, R. D. 1	Shamokin 17872
3-20-23	Bridy, Incorporated bk S DM	Edward Bridy	237 W. Girard St.	Atlas 17811
26	Brokenshire & Co. IM	G. Brokenshire	R. D.	Mahanoy City 17948
2	Brook Contracting Corp. S	George Racho	127 W. Noble St.	Hazleton 18201
17	Bruno & Peifer Coal Co. DM	John Bruno	811 Market Street	Trevorton 17881
18	Bubel Coal Co. IM	Michael Bubel	P. O. Box 129	Brookton 17925
18	Bubel Mining Co., Inc. DM	Michael Bubel	P. O. Box 129	Brookton 17925
3	Buck Coal Co. S	John Miller	427 West Avenue	Mt. Carmel 17851
15	Buckley Coal Corp. BP	Norman James	Ringtown	17967
20	Burnrite Coal Co. DM	Joseph Zukus	577 W. Girard St.	Atlas 17811
16	Bush Coal Co. IM	Earl Bush	1404 E. Grand Ave.	Tower City 17980
11-13	C.B.M. Coal Co. bk	Eugene Bartoli	559 E. Northampton	Wilkes-Barre 18702
4-19	C.L.S. Coal Co. S	David J. Roderick	172 S. Wyoming St.	Hazleton 18201
1	C. & S. Excavating Co. S	Peter Corazzi	101 E. Drinker St.	Dunmore 18512
29	Cains Coal Co. B	Edward J. Cain	1412 West Lynn St.	Shamokin 17872

Dis- trict	Operator	General Manager	Address	Zip Code
26	Capparell Coal Co., Inc. B	Martin Capparell	136 E. 5th Street	Hazleton 18201
3-26	Capparell Strip. & Const. Co. bk S	Martin Capparell	136 E. 5th Street	Hazleton 18201
1	Carbondale Coal Co. S	John J. Gillen	78 Cottage Street	Carbondale 18107
19	Cass Contracting Co. BP	James V. Ryan	R. D. 2, Box 360 1/2	Pottsville 17901
23	Change Coal Co. DM	Robert Pittelo	201 S. Vine St.	Mt. Carmel 17851
17	Chestnut Coal Co. DM	Stephen Shingara	R. D. 3	Sunbury 17801
1	Ciclo Coal Co. S	Michael Ciclo	601 Poplar St.	Mayfield 18133
16	Clark Coal Co. DM	Clark Maurer, Jr.	411 E. Main St.	Hegins 17983
24	Clay Coal Co. DM	Leonard Rupp	690 Bear Valley Av.	Fitman 17954
10	Coalbrook Iron & Metals bk	J. C. Baumann	P. O. Box 205	Carbondale 18407
10	Coalbrook Sales Co. bk	J. C. Baumann	P. O. Box 505	Carbondale 18407
30	Colket Coal Co. DM	J. Messaros	School Row	Branch Dale 17923
15	Coleby Coal Co., Inc. B bk	Garfield A. Schnee		Gilberton 17934
3	Conyngham Contracting Co., Inc. S	W. J. Farley	P. O. Box 173	Ashland 17921
18	Correale Construction Co. bk	G. M. Seiler	109 E. 1st Street	Hazleton 18201
19	Coxe Coal Co. IM	John Swinko	804 W. Market St.	Pottsville 17901
24	Czech Brothers Coal Co. IM	Stanley Czech	1038 W. Fern St.	Shamokin 17872
18	D. H. M. & C. Coal Co. DM	Harry David	R. D. 1	Sch. Haven 17972
17	D. H. & W. Coal Co. DM	Kenneth Whitmer	Box 70-A, R. D. 2	Paxinos 17860
17	D. & M. Coal Co. IM	John McAnaney	Box 112	Gwyn City 17828
20	D. R. Z. Coal Co. IM	Ernest DiRenzo	330 Melrose St.	Keiser 17832
28	D. & S. Coal Co. DM	David Fedako	1915 Race Street	Ashland 17921
24	D. V. W. Coal Co. IM	John Davis	309 S. Rock St.	Shamokin 17872
24	D. & Z. Coal Co. BP	Stanley Diminick	P. O. Box 351	Shamokin 17872
10	Dando Coal Co., P. P. DM	F. P. Dando	P. O. Box 583	Pottsville 17901
12	Dando & Troup Coal Co. S	David J. Dando	117 S. 2nd St.	Minersville 17954
10	DeAngelis, Inc. B	J. C. Baumann	P. O. Box 905	Carbondale 18407
12	Deeter Coal Co. IM	Eugene Deeter	R. D. 1	Hegins 17938
21	Dembinsky Coal Co. DM	N. Dembinsky		Minersville 17954
26	Diamond Coal Co. BP	Jos. F. Greco	P. O. Box 412	Mt. Carmel 17851
26	DiCassimiro Contracting Co. bk	F. DiCassimiro		Morea 17955
19	Diminick Coal Sales BP	Valento Scicchitano	P. O. Box 132	Paxinos 17860
24	DiRenzo Coal Co. BP	Dominick DiRenzo	R. D. 2, Box 752	Pottsville 17901
24	Dugan Coal Co. DM	J. Leschinski	456 S. Pearl St.	Shamokin 17872
24	Duke Associates IM	Joseph Duke	1023 W. Willow St.	Shamokin 17872
24	Dunn Coal Co., Marlin DM	Marlin Dunn	808 E. Sunbury St.	Shamokin 17872
13	Duryea Coal Sales Co. B	Arthur Tambur	P. O. Box 36	Duryea 18642
2	Dyszal Coal Co. IM	M. Dyszal	229 N. 2nd St.	Girardville 17935
28	E. & B. Coal Sales S	Edwin Booth	P. O. Box 206	Mildred 18632
21	E. & T. Coal Co. DM	Pedro Ibanes	144 W. 3rd St.	Mt. Carmel 17851
28	Echo Coal Co. B	Larry Lucas		Hegins 17938
24	Eldy Coal Co. DM	William Lytle	R. D. 2	Shamokin 17872
12	Elizabethville Coal Co. W bk	Ronald Klinger	P. O. Box 117	Elizabethville 17023
23	Else Coal Co. DM	Charles Else	1321 Chestnut St.	Kulpmont 17834
20	Emis Coal Co. DM	William Emis	7 W. Centre St.	Ashland 17921
16	Erdman Coal Co. DM	Jay Erdman		Valley View 17983
19	F. & Z. Coal Co. IM	Louis Fetterolf	R. D. 1	Ashland 17921
17	Fairdeal Coal Co. DM	Leon Shingara	527 Bear Valley Av.	Shamokin 17872
21	Falls Coal Co. DM	Herman Steine		Tremont 17981
18	Farley Coal Co. DM	J. N. Farley	P. O. Box 78	Pottsville 17901
30	Faust Coal Co. DM	Charles Faust		Muir 17957
18	Fauzio Coal Co. bk	Joseph Fauzio		Nesquehoning 18240
17	Fegley Brothers Coal Co. DM	Leonard Fegley	P. O. Box 95	Quakake 18245
16	Fetterolf Coal Co. DM	Harvey Fetterolf	R. D. 1, Box 40	Shamokin 17872
18	Film Coal Co., Inc. bk	G. M. Seiler	P. O. Box 12	Middleport 17953
16	Fire-side Mining, Inc. IM	James Schoffstall	281 S. Main St.	Pine Grove 17938
3	Folger & Chapleski S	Leonard Chapleski	P. O. Box 5	Ranshaw 17866
26	Forgotsch Brothers Coal Co. DM	Vincent Forgotsch	522 W. Mahanoy St.	Mahanoy City 17948
26	Fursum Coal Co., Inc. DM	Joseph Sluck	P. O. Box 395	Gilberton 17934
24	Four Partners Coal Co. DM	John Vrona	614 E. Sunbury St.	Shamokin 17872
30	Franklin Coal Co. BP	Franklin Miller		Ravine 17966
12	Frank, George B	George Fronk	Valley View	17983
26	G. & B. Coal Co. IM	T. Gaughen	58 Oakland Street	Ashland 17921
30	G. & T. Coal Co. DM	Malcolm Thompson	235 W. Main Street	Tremont 17984
23	G. M. P. Coal Co. IM bk	Albert Geslock	501 E. 7th Street	Mt. Carmel 17851
11-13	Gangloff Brothers bk	Gene Gangloff		New Ringgold 17960
27	Garcia Coal Co. DM	Joseph Garcia	1053 Spruce Street	Kulpmont 17834
18	Gem Coal Co. No. 3 DM	Clifford Artman	Box 71-A, R. D. 1	Shamokin 17872
3-26	Gilberton Coal Co. B S	Garfield A. Schnee	P. O. Box 423	Gilberton 17934
13	Giovannini, Joseph bk	Joseph Giovannini	223 Sanovia Street	Exeter 17643
3-24	Gloven Brass Coal Co. bk S	Glenn Brass	129 West Avenue	Mt. Carmel 17851

Dis- trict	Operator	General Manager	Address	Zip Code
24	Glen Burn Colliery, Inc. B	Joseph J. Parker	P. O. Box F	Shamokin 17872
11	Glen-Nan Coal Co., Inc. DM	George H. Kienale		Wilkes-Barre 18702
10	Glenmore Colliery, Inc. bk B	Joseph Costello	P. O. Box 106	Dickson City 18519
19	Glennr Worth Coal Co. BP	Carl L. Hoke	2205 W. Market St.	Pottsville 17901
3-24	Glosek Bros. Coal Sales, Inc. S BP	Roman Glosek	1310 W. Holly St.	Shamokin 17872
11	Glyon Coal Co., Inc. DM	A. Ciaroni	232 Division St.	Wilkes-Barre 18702
16-21	Good Spring Coal Co. DM	Fred Lucas	309 W. Main St.	Tremont 17981
18	Gorenty Coal Co. DM	Earl Gorenty	Walnut Street	Middleport 17953
2-15	Gowen Coal Co. B S	Elmer Roth		Fern Glen 18241
16	Green Coal Co. DM	John Stahl	R. D. 2	Hegins 17938
18	Greenwood Mining Co. BP	Joseph Fauzio	P. O. Box 269	Tamaqua 18252
2	Greenwood Stripping Corp. S	Joseph Fauzio	One Venice St.	Nesquehoning 18240
24	Grego & Deitz Coal Co. DM	Stanley Grego	836 W. Spruce St.	Shamokin 17872
15	Greybosh Coal Co., Inc. BP	A. Yenchick	Hazleton Road	Hazleton 18201
17	Gudelunas Coal Co. DM	Frank Gudelunas	27 S. Spruce St.	Mt. Carmel 17851
17	H. J. & H. Coal Co. BP	Harry D. Reitz		Milton 17847
26	H. M. B. & P. Coal Co. DM	Charles Mitchell	107 Reed Street	Girardville 17935
19	H. & P. Coal Co. DM	Joseph Hudock		Llewellyn 17944
24	H. & S. Coal Co. DM	Henry Heiser	146 E Avenue	Mt. Carmel 17851
30	H. & S. Coal Co. DM	Robert Maurer	R.D.1	Hegins 17938
21	Haas Coal Co. DM	Lester Haas		Fitman 17964
19	Halaburda Coal Co. DM	Bernard Halaburda	231 Wylan Street	Frackville 17931
30	Haldeman Coal Co. DM	Adam Z. Haldeman	R. D. 3	Pine Grove 17963
20	Hanks Coal Co. DM	Henry Szymanski	544 W. 3rd Street	Mt. Carmel 17851
26	Hard Top Coal Co., Inc. DM	Joseph Sluck	P. O. Box 183	Loft Creek 17946
16	Harman Coal Co. DM	Clair Harman		Valley View 17983
12	Harner Coal Co. DM	Alfred Harner		Valley View 17983
16-21	Hatter Coal Co. DM	Jacque Hatter		Hegins 17983
19-21	Hegins Mining Co. DM	William E. Carl	521 E. Walnut St.	Hegins 17938
20	Hepler Coal Co. DM	Charles Hepler	1320 Scott Street	Kulpmont 17834
16	Herb & Reed Coal Co. DM	Harry L. Reed		Tower City 17980
21	Herring Brothers Coal Co. DM	Lester Herring	R. D. 2	Pine Grove 17963
16	Hi-Test Coal Co. DM	Kenneth Curran	Goodspring 3	Tremont 17981
2-15	Honeybrook Mines, Inc. B S	George Seiler	109 E. 1st Street	Hazleton 18201
24	Hoover Mining Co. BP	George Hoover	118 N. 6th Street	Sunbury 17801
12	Hornberger Coal Co. BP	Charles Hornberger	P. O. Box 320	Ashland 17921
19	Norvath Partnership DM	Harry David	R. D. 1	Sch. Haven 17972
13	Houston City, Inc. bk	T. Haddock	P. O. Box 36	Avoca 18641
3	Howells, T.S. & Olaf Strip. Co. S.	Stanley Olaf	1475 Scott Street	Kulpmont 17834
2-15	Huss, George W S bk	George Huss	W. Main Street	Ringtown 17967
19-21-30	Industrial Coal Sales Co. BP DM	Robert E. Doeblen		Tremont 17981
16	J. & C. Coal Co., Inc. DM	Jos. Walacavage	R. D. 1	Pottsville 17901
18	J. & E. Coal Co. BP	Edward P. Patrick	R. D. 3	Tamaqua 18252
2-15	Jeddo-Highland Coal Co. B S bk	Frank Moran	800 Exeter Ave.	W. Pittston 18640
3	Jet Coal Co. S	John Menapace	P. O. Box 443	Mt. Carmel 17851
26	K. & C. Coal Co. DM	Joseph Kroh	18 E. Mahanoy Ave.	Girardville 17935
24	K. & D. Coal Co. BP	Albert Kopenhaver	Box 415	Shamokin 17872
26	K. & J. Coal Co. bk	Leon Jurgill	709 N. Paxton St.	Centralia 17927
29	K. & K. Coal Co. DM	George Kastropa	R. D. 2, Cole Run	Shamokin 17872
28	K. K. & E. Coal Co. DM	Robert Kabonick	821 W. Mulberry St.	Shamokin 17872
18	K. M. & F. Coal Service BP	Howard Fees	Washington Street	Middleport 17953
19	K. & P. Coal Co. DM	Charles Kiertekles	P. O. Box 296	Minersville 17954
20	K. S. & F. Coal Co. DM	Melvin Kroh	R. D. 2	Hegins 17983
21	K. & Z. Coal Co. DM	Joseph Zack	757 Tioga Street	Shamokin 17872
20	Kaleta Coal Co. DM	James Kaleta	Box 229-A	Shamokin 17872
2-15	Kassa Coal Co. DM S	Nicholas Kassa	322 Simpson St.	Dupont 18641
16	Keffers Coal Co. DM	Robert Barder		Valley View 17983
4-12-26	Kerrigan Coal Co., Inc. BP W bk S	Paul Kerrigan	3rd & Chestnut St.	Frackville 17931
3	Kerris & Helfrick, Inc. S	Edward Helfrick	Lehigh & Poplar St.	Mt. Carmel 17851
28	Kerstetter Coal Co. DM	Lamar Kerstetter	R. D. 1	Shamokin 17872
12	Kintzel Bros. Coal Co. DM	Nathan Kintzel	R. D. 2	Pine Grove 17963
18	Klinas Coal Co. DM	Albert Klinas	31 Clay Street	New Philadelphia 17959
21	Klinger Coal Co. DM	Earl Klinger	R. D. 2	Hegins 17938
19	Koch Coal Co. DM	Floyd Koch	R. D. 2	Sch. Haven 17972
4-16	Kocher Coal Co., Leon E. BP S	R. W. Rieisinger		Valley View 17983
21	Koons Coal Co., Marcus DM	Junior Harner		Tremont 17981
12	Koppenhaver Coal Co. DM	Howard Koppenhaver	203 W. Laurel St.	Tremont 17981
4	Krell Coal Co., Philip S	Philip Krell	R. D. 3	Tamaqua 18252
18	Kristoff Coal Co. DM	George Kristoff		Mary D 17952
21	L. E. H. Mining Co. DM	Howard Renninger	111 High Street	Pine Grove 17963
11	L. J. B., Inc. bk	Arnold Biscontini	St. Mary's Road	Wilkes-Barre 18702

Dis- trict	Operator	General Manager	Address	Zip Code
28	L. & M. Coal Co. DM	Lambert Reber	R. D. 2, Box 309	Shamokin 17872
13	Laflin Heights Coal Co. bk	Louis Falzone	540 Wyoming Ave.	Wyoming 18702
12	Lahr Coal Co. DM	Marlin Lahr		Williamstown 17098
18	Lanscoal Mining Co., Inc. DM	Stephen Karabinos	West Ridge Street	Lansford 18232
12	Last Chance Coal Co. DM	Wilbur White	R. D.	Ashland 17921
15	Lech Coal Co. bk	Stanley Lech	R. D. 2	Tamaqua 18252
15	Lee Mining Co., Inc., J.F. DM	Joseph F. Lee	836 N. Church St.	Hazleton 18201
16	Legal Coal Co. BP	Kenneth Curran	Goodspring 3	Tremont 17981
1-2-3-11- 13-15-16-18-26	Lehigh Valley Anthracite, Inc. BP B bk S	Henry Ventre	800 Exeter Ave.	W. Pittston 18643
12	Lehman Coal Co., Mervin DM	Mervin Lehman	R. D. 1	Pine Grove 17963
19	Live Oak Coal Co. BP	Peter Laychock, Jr.	R. D. 1, Box 84-A	Pottsville 17901
26	Locust Valley Coal Co., Inc. B bk	H. Tudecufski	P. O. Box 179	Mahanoy City 17948
23	Lone Pine Coal Co. DM	Jerome Zupcich	825 Lott Street	Shamokin 17872
3	Long Coal Co., Millard S	Millard Long	933 Chestnut St.	Kulpmont 17834
28	Lotus Coal Co. DM	Thomas Anzulovich	1335 Webster St.	Shamokin 17872
24	Lower Region Colliery W	Leonard Chapleski	P. O. Box 5	Ranshaw 17866
24	Lytle Brothers Coal Co. DM	William Lytle, Jr.	634 W. Spruce St.	Shamokin 17872
12	M. A. D. Coal Co. DM	Alvin Morgan		Williamstown 17098
17	M. & C. Coal Co. DM	Osborne Cressinger	R. D. 1	Paxinos 17860
19	M. & N. Coal Co. DM	Michael Olenick	224 N. 20th Street	Pottsville 17901
20	M. & P. Coal Co. bk	Frank Moncavage	122 W. Girard St.	Atlas 17811
20	M. & S. Coal Co. DM	Allen Shoffler	337 Melrose Street	Keiser 17832
21	M. & W. Coal Co. DM	George Motter	R. D. 1	Pine Grove 17963
20	M. & W. Coal Co. DM	W. H. Brennan	503 W. Avenue	Mt. Carmel 17851
21	M. W. S. Coal Co. DM	Palmer Marvina	P. O. Box 306	Ashland 17921
16	Mace Coal Co., James DM	Russell Kerstetter	1520 W. Walnut St.	Shamokin 17872
16	Madenford Coal Co. DM	George Madenford		Joliett 17981
26	Maksimik Coal Co. bk	S. Maksimik	435 W. Columbus St.	Shenandoah 17976
26	Malho Coal Co. B	M. Malho		Lavelle 17943
18-19-21	Manbeck Dredging Co., Inc. W bk	Kenneth Heiser	318 E. Liberty St.	Sch. Haven 17927
16	Marby Coal Co., Inc. DM	Charles Thomas		Shamokin 17872
16	Marchuk & Sons Coal Co. DM	Stephen Marchuk		Shamokin 17872
15	Marko Coal Co. DM	J. J. Markosky	1804 E. Wiconisco	Reinerton 17980
26	Marion Mining Co., Inc. B DM	M. A. Raczkowski	436 W. Columbus St.	Shenandoah 17976
18	Mar Strip & Excavating Co. bk	Joseph Mariner	725 W. Coal Street	Shenandoah 17976
17	Marquette Coal Co. DM	Darwin Marquette	R. D. 2	Tamaqua 18252
19	Martin Enterprises DM	Charles Martin	611 W. Pine Street	Shamokin 17872
13	Martinelli Coal Co., Mathew bk	Mathew Martinelli	R. D. 1	Pittsville 17901
10	Matisko Coal Co. B bk	John Matisko	180 Parsonage St.	Pittston 18640
28	Maurer Coal Co., Paul F. DM	Paul F. Maurer	Mt. Cobb Rd., R.D. 3	Lake Ariel 18436
28	Mayton Brothers Coal Co. DM	Joseph Mayton	820 Lott Street	Shamokin 17872
15	Mazaika Brothers Coal Co. BP	Edward Mazaika	R. D. 2, Cole Run	Shamokin 17872
2	Meadow Coal & Excavating Co. S	Andrew Brazzo	R. D. 2	Tamaqua 18252
12	Meadowbrook Coal Co. W bk	Leslie Kimmel	New Coxeville Rd.	Beaver Meadow 18216
1-13	Meg Coal Co. S bk	Ross Gelsco		Tower City 17980
30	Mercury Coal Co., Inc. DM	Leon Richter	1948 Wyoming Ave.	Exeter 18643
26	Mickey Coal Co. DM	J. Mikatavage		Tremont 17981
21	Miller Coal Co. DM	Daniel Miller	40 Oakland Street	Ashland 17921
19	Minersville Coal Co., Inc. BP	Leo Strenkoski		Valley View 17983
13	Moffat Coal Co., Inc. DM	E. W. Lamb	Drawer N	Minersville 17954
13	Moffat Premium Anthracite, Inc. B	Mike Costanzo	P. O. Box 486	Scranton 18703
17	Moore Coal Co. DM	Claude Moore	78 Cottage Street	Carbondale 18407
20	Morack Coal Co. DM	John Morack	R. D. 2, Box 281	Shamokin 17872
19	Motto Partnership DM	Frank J. Motto	407 N. Vine Street	Mt. Carmel 17851
23	Mountain Coal Co. DM	Thomas Supey	P. O. Box 13	Wyomelsior 17825
12	Mountain Side Coal Co. BP	Roy Habel	55 W. 6th Street	Exeter 17802
21	Mountain Top Coal Co. DM	William Vesay	648 E. Broad St.	Tamaqua 18252
18	Mountain View Coal Co. DM	William Heitsman		Tamaqua 17954
25	McAdoo Mining Co. DM	Eugene Pinter	P. O. Box 340	Shamokin 17872
17	N. & L. Coal Co., Inc. DM	Anthony Novrocki	62 N. Tamaqua St.	MaAdoo 18237
13	N. & R. Coal Co. bk	Nunzy Savoy	R. D. 1	Paxinos 17860
21	Neumeister Coal Co., James DM	James Neumeister	25 Barber Street	Exeter 17860
16	Ney & Lehman Coal Co. DM	Carl Ney	R. D. 1, Box 66	Ashland 17921
28	No. 1 Coal Mine DM	Raymond Keefer	300 S. Maple St.	Mt. Carmel 17851
12	No. 4 Coal Co. DM	Frank Lucas	R. D. 2, Box 288	Shamokin 17872
4	North East Mining Co. S	Joseph T. Hughes		Hegins 17938
3	North Line Coal Co. S	C. Wayne Troxell		Middleport 17953
1	Northwest Mining Co., Inc. S	John J. Gillen	P. O. Box 12	Shamokin 17872
30	Oakwood Coal Co., Inc. BP	John J. Gillen	78 Cottage Street	Carbondale 18407
19	Old Mill Coal Yard BP	David Deaven, Sr.	R. D. 3	Pine Grove 17963
19		Raymond Stein	P. O. Box 172	Llewellyn 17944

Table with columns: District, Operator, General Manager, Address, Zip Code. Lists coal and construction companies across various districts.

Table with columns: District, Operator, General Manager, Address, Zip Code. Lists coal and construction companies across various districts.

Dis- trict	Operator	General Manager	Address	Zip Code
23	Zanella Brothers Coal Co. DM	Stephen Zanella	34 Spruce Street Ashland	17921
21	Zimmerman Coal Co., Marlin DM	Marlin Zimmerman	Ravine	17966

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NOTE: DM - Denotes Deep Mines  
S - Denotes Strip Mine Operations  
B - Denotes Breakers  
BP - Denotes Breaker Preparation Only  
M - Denotes Maintenance  
W - Denotes Washery  
bk - Denotes Bank Operations

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF MINES AND MINERAL INDUSTRIES  
ANTHRACITE DIVISION  
Breakers, Washeries and Preparation Plants

Dis- trict	Preparation Plant	Company	Location	Zip Code
10	Ace Breaker	Ace Coal Co.	Blakely	18512
10	Ace Cleaning Plant	Ace Anthracite, Inc.	Blakely	18512
24	Ace Coal Sales	Ace Coal Sales	Weigh Scale	17872
20	Atlas Washery	Bridy, Incorporated	Atlas	17811
26	B-D Fine Coal Plant	B-D Mining Co.	Mahanoy Township	17958
18	B. & N. Breaker	B. & N. Coal Co.	Schuylkill Haven	17972
24	Bar-Mac Breaker	Bar-Mac Coal Co.	Weigh Scale	17872
15	Beaver Brook Breaker	Beaverbrook Coal Co., Inc.	Hazle Township	18704
15	Beaver Brook Fine Coal Plant	George Huss	Hazle Township	18704
19	Beechwood Cleaner Plant	Reading Anthracite Co.	Duncott	17901
13	Bel Air Breaker	Duryea Coal Sales Co.	Duryea	18642
15	Big Buck Breaker	Big Buck Coal Co.	Foster Township	18642
19	Black Heath Breaker	Phoenix Contracting Co.	Cressona	17929
26	Blaschak Breaker	Blaschak Coal Co., Inc.	St. Nicholas	17948
1	Bliss Crusting Plant	Bliss Coal Co.	Mildred	18632
10	Bolands Breaker	DeAngelis, Inc.	Carbondale	18407
1	Booth Cleaning Plant	E. & B. Coal Sales	Mildred	18632
18	Brockton Breaker	R. & R. Coal Co.	Brockton	17925
29	Cains Breaker	Cains Coal Co.	Shamokin	17872
15	Candleton Breaker	Coleby Coal Co., Inc.	Gilberton	17934
24	Carbon Run Breaker	Rosini Coal Co.	South Shamokin	17872
12	Coal Sales Ramp	George Fronk	Lykens	17048
26	Connerton Cleaning Plant	Marion Mining Co., Inc.	Girardville	17935
24	D. & Z. Breaker	D. & Z. Coal Co.	Weigh Scale	17872
20	Diamond Breaker	Diamond Coal Co.	Atlas	17811
24	Diminick Breaker	Diminick Coal Sales	Paxinos	17860
19	DiRenzo Breaker	DiRenzo Coal Co.	Minersville	17954
30	Donaldson Breaker a	Industrial Coal Sales Co.	Donaldson	17981
21	Echo Breaker	Echo Coal Co.	Tremont	17981
15	Eckley Breaker	Buckley Coal Corporation	Ringtown	17967
12	Elizabethville Washery	Elizabethville Coal Co.	Elizabethville	17023
19	Forestville Washery	Manbeck Dredging Co., Inc.	Forestville	16035
13	Franklin Cleaning Plant	Lehigh Valley Anthracite, Inc.	Wilkes-Barre Township	18701
30	Franklin Hydrotated Breaker	Franklin Coal Co.	Ravine	17966
26	Gilberton Breaker	Gilberton Coal Co.	Gilberton	17934
24	Glen Burn Breaker	Glen Burn Colliery, Inc.	Shamokin	17872
11	Glen Lyon Breaker	Susquehanna Coal Co.	Glen Lyon	18517
19	Glenn Worth Coal Co.	Glenn Worth Coal Co.	Cressona	17929
24	Glosek Breaker b	Glosek Brothers Coal Sales	Weigh Scale	17872
15	Gowen Breaker	Gowen Coal Co.	Fern Glen	18241
18	Greenwood Breaker	Greenwood Mining Co.	Rahn Township	19426
15	Greybosh Breaker	Greybosh Coal Co., Inc.	Hazleton	18201
17	H. J. & H. Breaker	H. J. & H. Coal Co.	Trevorton	17881
13	Harry E. Breaker	Lehigh Valley Anthracite, Inc.	Swoyersville	18704
15	Hazleton Shaft Breaker	Lehigh Valley Anthracite, Inc.	Hazleton	18201
15	Hazleton Shaft Cleaning Plant	Lehigh Valley Anthracite, Inc.	Hazleton	18201
15	Highland No. 5 Breaker	Jeddo-Highland Coal Co.	Foster Township	18642
21	Hillside Breaker	Hegins Mining Co.	Zerbe	17984
15	Honeybrook Breaker c	Honeybrook Mines, Inc.	Audenried	18213
15	Honeybrook Breaker	Archer Coal Co.	Audenried	18213
24	Hoover Breaker	Hoover Mining Co.	Paxinos	17860
13	Huber Breaker	Blue Coal Corporation	Ashley	18706
18	J. & E. Breaker	J. & E. Coal Co.	South Tamaqua	18252
15	Jeddo No. 7 Breaker	Jeddo-Highland Coal Co.	Hazle Township	18704
16	Joliett Breaker	Lehigh Valley Anthracite, Inc.	Joliett	17981
24	K. & D. Breaker	K. & D. Coal Co.	Weigh Scale	17872
18	K. M. & F. Breaker	K. M. & F. Coal Service	Middleport	17953
19	K. & P. Breaker	K. & P. Coal Co.	Minersville	17954
18	Kaska Breaker	Film Coal Co., Inc.	Middleport	17953

Dis- trict	Preparation Plant	Company	Location	Zip Code
13	Kassa Breaker	Silverbrook Anthracite, Inc.	Lafin	18702
12	Kerrigan Breaker	Kerrigan Coal Co., Inc., Paul	Williamstown R. D.	17098
26	Kerrigan Fine Coal Plant	Kerrigan Coal Co., Inc., Paul	Ashland R. D. 1	17921
16	Kocher Breaker	Kocher Coal Co., Leon E.	Valley View	17983
16	Legal Breaker	Legal Coal Co.	Valley View	17983
15	Lion Breaker	Lehigh Valley Anthracite, Inc.	Hazleton	18201
19	Live Oak Breaker	Live Oak Coal Co.	Primrose	17954
23	Locust Summit Breaker	Reading Anthracite Co.	Locust Gap	17840
11	Loomis Breaker	Lehigh Valley Anthracite, Inc.	Hanover Township	18702
13	Loree Breaker	Blue Coal Corporation	Larksville	18704
24	Lower Region Washery	Lower Region Colliery	Trevorton Road	17881
19	Lowland Washery	Manbeck Dredging Co., Inc.	Landingville	17942
26	Malho Breaker	Malho Coal Co.	Lavelle	17943
26	Mammoth Breaker	Lehigh Valley Anthracite, Inc.	Raven Run	17946
26	Maple Hill Cleaning Plant	Reading Anthracite Co.	Maple Hill	17976
19	Maple Spring Breaker	C. L. S. Coal Co.	Branch Dale	17923
18	Marlin Breaker	Cass Contracting Co.	Marlin	17951
10	Matisko Cleaning Plant	Matisko Coal Co.	Forest City	18421
15	Mazaika Breaker	Mazaika Brothers Coal Co.	Rush Township	18252
12	Meadowbrook Washery	Meadowbrook Coal Co.	Lykens	17048
19	Minersville Breaker	Minersville Coal Co., Inc.	Minersville	17954
26	Morea Breaker	Lehigh Valley Anthracite, Inc.	Morea	17955
26	Mount Hazle Breaker	Locust Valley Coal Co., Inc.	Mahanoy Township	17958
18	Mountain Side Breaker	Mountain Side Coal Co.	South Tamaqua	18252
18	Nesquehoning Cleaning Plant	Correale Construction Co.	Nesquehoning R. D. 1	18240
19	New St. Nicholas Breaker	Reading Anthracite Co.	Duncott	17901
19	New St. Nicholas Fine Coal Pl.	Reading Anthracite Co.	Duncott	17901
18	No. 6 Washery	Manbeck Dredging Co., Inc.	Lansford	18232
30	Oakwood Breaker	Oakwood Coal Co., Inc.	Pine Grove R. D. 3	17963
19	Old Mill Breaker	Old Mill Coal Yard	Llewellyn	17944
19	Olenick Breaker	Olenick Brothers Coal Co.	Forestville	16035
10	Olyphant Cleaning Plant	Glenmore Colliery Co.	Dickson City	18519
13	O'Toole Cleaning Plant	O'Toole, John F.	Moosic	18505
30	Penag Breaker	Penag Coal Co.	Good Spring	17981
10	Penbrook Breaker	Penbrook Coal Co.	Archbald	18403
12	Pine Creek Breaker	Pine Creek Coal Co.	Spring Glen	17978
18	Pine Forest Cleaner Plant	Reading Anthracite Co.	St. Clair	17970
10	Pompey Breaker	Pompey Coal Co.	Jessup	18434
18	Premium Fine Coal Plant	Premium Fine Coal Co., Inc.	South Tamaqua	18252
13	Prospect Cleaning Plant	Lehigh Valley Anthracite, Inc.	Plains Township	18705
18	Randolph Washery	Randolph Coal Co.	Port Carbon	17965
29	Ranshaw Washery	Ranshaw Transportation & Auto Wreckers Co.	Ranshaw	17866
10	Raymond Breaker	Northwest Mining Co., Inc.	Eynon	18418
26	Reichwein & Beury Breaker	Reichwein & Beury Coal Co.	Gordon	17921
24	Reidinger Breaker	Reidinger Coal Service, Inc.	Paxinos	17860
26	Rosa Breaker	Capparell Coal Co., Inc.	Shenandoah	17976
26	St. Nicholas Fine Coal Plant	Reading Anthracite Co.	St. Nicholas	17948
18	Salem Creek Breaker	Lehigh Valley Anthracite, Inc.	Pottsville	17901
20	Savitski Breaker	Savitski Brothers Coal Sales	Atlas	17811
30	Schneck Breaker	Schneck Coal Co., Thomas W.	Pine Grove R. D. 1	17963
12	Shomper Breaker	Shomper Coal Co.	Williamstown R. D.	17098
26	Skytop Breaker	Skytop Coal Co., Inc.	Mahanoy Township	17908
18	Silver Creek Breaker	Silver Creek Coal Co., Inc.	New Philadelphia	17959
18	South Tamaqua Breaker	South Tamaqua Coal Pockets	South Tamaqua	18252
24	Split Vein Breaker	Split Vein Coal Co.	Weigh Scale	17872
18	Spring Creek Breaker	Spring Creek Coal Co.	South Tamaqua	18252
26	Starwood Breaker	Starwood Coal Corporation	New Boston	17958
20	State Cleaning Plant	State Coal Co., Inc.	Strong	17879
12	Stonehill Breaker	Stonehill Coal Co.	Loyalton	17046
12	Strohecker Breaker	Strohecker Coal Co.	Elizabethville R. D.	17023
13	Sullivan Trail Breaker	Lehigh Valley Anthracite, Inc.	West Pittston	18643
28	Sunshine Breaker	Sunshine Coal Co.	Trevorton	17881
16	Superior Breaker	Superior Coal Co.	Valley View	17983
21	Swatara Breaker	Swatara Coal Co., Inc.	Zerbe	17984
24	Swift Breaker	Swift Coal Sales	Paxinos	17860
13	Taylor Breaker	Moffat Premium Anthracite, Inc.	Taylor	18517
15	Tedesco Breaker	Tedesco Brothers Coal Co.	Pardeesville	18243
17	Trevorton Breaker	Reading Anthracite Co.	Trevorton	17881

Dis- trict	Preparation Plant	Company	Location	Zip Code
12	Underkoffler Breaker	Underkoffler Coal Service	Lykens	17048
15	Valley Breaker	Valley Coal Co.	Rush Township (Tamaqua)	18252
10	Waddell Washery	Waddell Coal Mining Co., Inc.	Winton (Jessup)	18434
15	Wesner Breaker	Wesner Coal Co.	Rush Township(Tamaqua)	18252

NOTE: (a) Formerly operated by Anthracite Fine Coals, Inc.  
 (b) Destroyed by fire.  
 (c) Breaker operated on first shift by Honeybrook  
 Mines, Inc. and Archer Coal Co. on second shift.