

REFERENCE GUIDE TO RESOURCES ON COAL MINING
AND ASSOCIATED MATERIALS
IN THE CENTRAL/WESTERN PENNSYLVANIA REGION

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PREFACE:

The following is a listing of coal mining resources that are available in Pennsylvania's bituminous region. It is not a comprehensive survey since it primarily draws on materials that are located in major libraries and neglects holdings that may be available in local historical societies, public libraries, or other colleges. The collection provides a starting point for those interested in finding out more information about the industrial heritage of coal mining with a particular focus on the northern Appalachian region. It lists available books, reference books and materials, newspapers, oral history collections, films and videos, bibliographies, with an additional section on coal related organizations. Overview narratives on the development of coal industry in central Pennsylvania in the late 19th and early 20th centuries are also provided. I wish to thank Teresa Statler-Keener for her assistance and the students of the 1992 and 1993 IUP Oral History and Visual Ethnography Institutes in Patton and Nanty Glo for their support and guidance. Any misrepresentations of the following information are exclusively my responsibility.

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AN OVERVIEW REVIEW OF LITERATURE:

The Appalachian region is known for its abundant natural resources, rolling hills, creeks and hollows. But coal strikes, persistent poverty, and environmental problems have also been a vivid part of its heritage. Historically the region has experienced a marginal existence in relation to the rest of America. Most of its day-to-day activities go virtually unnoticed by the larger society even though the relationship between the two has been symbiotic. Studies such as the congressional investigations of the causes and consequences of poverty in the coal industry in the 1920s and the Harlan County Kentucky investigations of the 1930s are a few examples of how policy makers took notice of the region only when it experienced massive catastrophes. More often than not, the responses to those situations and problems was anemic, and in nearly every instance supported the interests of a powerful local and national elite at the expense of mine workers and their families and communities.

In the early 1960s the nation once again turned its attention to the plight of Appalachia. Michael Harrington's Other America: Poverty in the United States (Baltimore: Penguin, 1963), Harry Caudill's Night Comes to the Cumberland's A Biography of a Depressed Area (Boston: Atlantic Monthly Press, 1962), and John F. Kennedy's presidential campaign swing through the region helped to stimulate part of this renewed interest. Recently the scholarship of the "new social historians," following the footsteps of E.P. Thompson, Herbert Gutman, David Montgomery, continues to draw academic and public attention to the region through monographs, articles, documentaries, university courses, and reports.

One of the first attempts to develop an understanding of how state politicians and outside investors worked together in Appalachia was undertaken by John Alexander Williams in West Virginia and the Captains of Industry (Morgantown: West Virginia University Library, 1976).

William focused on the careers of four businessmen/politicians; Johnson N. Camden, Henry G. Davis, Stephen B. Elkins, and Nathan B. Scott. They are credited with forging a "modern" political party system that was used to promote their involvement in the state's extractive industries between the 1880s and 1913. The four developed close working relationships with major outside investors and industrialists. Camden made large sums of money serving Standard Oil, while Davis and Elkins acquired huge profits from selling their railroad to George Gould. Williams suggests that it is the tradition of the political and economic structure created by these individuals that is responsible for the pillage of West Virginia's resources and people which continues to persist today.

In a sequel to his earlier work Harry M. Caudill in *Theirs Be The Power: The Moguls of Eastern Kentucky*, (Urbana: University of Illinois Press, 1983), investigates how the acquisition of land and mineral rights, and the building of railroads and company towns transformed the eastern Kentucky countryside. Exploring the relationship between the moguls of the industrial era, the Rockefellers, Roosevelts, and the lesser known local moguls such as John C. Mayo, and the political leaders of Kentucky, Caudill argues that the relationship resulted in tax legislation and other laws very favorable to the mining interests. He concludes that the alliance enriched the owners of the mining firms at the expense of eastern Kentucky's workers, their local communities, and the region's abundant natural resources. Caudill identifies the major benefactors as a part of an intercorporate network of banks, railroads, and major financiers.

A preceding volume undertaken by Ronald D. Eller, *Miners, Millhands, and Mountaineers: Industrialization of the Appalachian South, 1880-1930*, (Knoxville: University of Tennessee Press, 1982), develops a broader analysis. Eller attributes the region's persistent marginality to the industrialization process of the late 19th century. Like Caudill he tells a story

of how the region underwent a massive upheaval of every aspect of "mountain life" from a static preindustrial state, to the land and development schemes, and life in company towns under the total control of coal barons during the so-called "modernization" era of the 1880s-1930s. As a result, the "indigenous" populations found themselves powerless and unable to escape dependency upon a coal company for a wage income. Eller concludes that the area's poverty is not related to a deficiency systemic to its culture but is rather a product of the larger society's method of industrialization.

The analysis of how miners responded to these conditions varies. David Alan Corbin in Life, Work, and Rebellion in the Coal Fields: The Southern West Virginia Miners, 1880-1922, (Urbana: University of Illinois Press, 1981), argues that the miners' were not quiescent. Ultimately they responded with a militancy that was stimulated in part by increased class consciousness, the acceptance of "radical" ideology, and class solidarity. Prior to 1900 apathy did prevail among the miners which he attributes to organizing priorities of the UMWA, and physical intimidation on the part of company hired private police. Later mine worker attitudes changed in the wake of the famous Paint Creek - Cabin Creek strike of 1912-1916, the continuous police harassment, and the "democracy" and "good American" rhetoric Wilson used to legitimize the WWI effort. The violent clashes between miners and operators after the war and the progressive tradition which continues in District 17 today can all be traced to this period.

Instead of focusing on miner - operator conflict John Gaventa investigates why coal miners don't rebel. In his acclaimed book Power and Powerless: Quiescence and Rebellion in an Appalachian Valley, (Urbana: University of Illinois Press, 1980) he argues that the coal miners lack of protest stems from an awareness that the cost of challenging the status quo far outweighs the benefits. Miners are conscious of their own powerlessness, not apathetic or ignorant of who

dominates and controls their very livelihoods.

Gaventa traces the roots of this lack of assertiveness to the late 19th century when the American Association Ltd, a British based firm, came to Kentucky's Cumberland valley to extract its natural resources. The Association's involvement in the valley mirrored what has happened throughout Appalachia, workers and their families were subjected to constant miserable living conditions. In an effort to grasp the workers unwillingness to strike back Gaventa developed a three "dimensional" model for understanding powerlessness. The first two dimensions investigate the role of political institutions and resolutions and the values, beliefs, and rituals associated with them. The third level looks at the "means through which power influences, shapes or determines conceptions of the necessities, possibilities, and strategies of challenge in situations of latent conflict." This includes the study of social myths, language, symbols, and how they are shaped or manipulated. Gaventa's history shows all three dimensions of the mechanisms are used for maintaining power and powerlessness in Appalachia.

Ronald L. Lewis traces the history of African-American coal miners from slavery to the present in Black Coal Miners in America: Race, Class, and Community Conflict, 1780-1980 (Lexington: University Press of Kentucky, 1987). Between 1890-1930 African-American miners had different experiences in the various mining regions. For instance in Alabama, where most of the miners were African-American, employers divided the workers by isolating the African-Americans in low-paying positions and by segregating them in company towns. In the central region, mostly West Virginia, the miners experienced more equality. Their employers made attempts to hire a cross section of workers from all ethnic and racial backgrounds. African Americans were generally treated equally in the mines but were not granted job advancements. Few were given jobs as bosses. Lewis illustrates how these miners were virtually eliminated

from the industry after 1930 as the coal industry declined and machines replaced workers.

African-American miners (other than the slave or imprisoned miners in the south) were the last hired, relegated to low-pay positions, and the first to be fired when market conditions changed or new technology was introduced. The plight of the African-American miner can be attributed to racism on a societal level particularly from coal operators and local unions.

Joseph William Trotter, Jr. adds to Lewis's work by investigating the experiences of African American coal miners in southern West Virginia between 1915 and 1932. In Coal, Class, and Color: Blacks in Southern West Virginia, 1915-32 (Urbana: University of Illinois Press, 1990), Trotter sees African American miners as a work force making their way from a rural agrarian past into an industrial setting for the first time. Understanding how larger social/economic and political forces shaped the race and class dimensions of this process, according to Trotter, can help fill in the gaps of the existing scholarship on "how race, class, culture and power interplayed in the coal fields." Trotter acknowledges that racism was a major force in limiting interaction between the races and the UMWA's efforts to unionize southern West Virginia, but it was not an impermeable force and some African American miners joined the United Mine Workers of America. However, Professor Trotter concentrates on the proletarianization process of the African American miner which produced situations where they could influence the traditional social/political/cultural structures and ultimately lead to a higher standard of living for their families and communities. The outcome of these dynamics gradually influenced African American culture and consciousness. The rise of an African American middle class, expansion of institutions, and gaining more control and influence over their lives are some of the major factors emerging out of these early African American mine worker experiences and initiatives.

Building upon his early work, Work Relations in the Coal Industry: The Hand-Loading Era, 1880-1930 (Morgantown: West Virginia University, 1977), Keith Dix examines the technological transformation of the coal industry during the 1920s and 30s in What's a Coal Miner to Do?: The Mechanization of Coal Mining (Pittsburgh: University of Pittsburgh Press, 1988). Dix expands on one of his earlier themes that during the hand-loading era miners "largely controlled the production process" through their control of the knowledge of skills, their participation in day-to-day activism, and their involvement in the union. The daily on the job decisions were left to the miners while the companies raised the capital and marketed the production.

Dix argues that this system was transformed during the 20s and 30s with the introduction of new technology. Market conditions and increase competition encouraged operators to seek ways to cut costs and increase productivity. This result was achieved by replacing miners with mechanical loading machines and increasing supervision. As the process became more entrenched management gained control over the production process and undermined the workers' freedom. Dix also shows that the union and New Deal bituminous coal mining legislation contributed to the operators' victories.

Richard Francaviglia departs from these efforts by providing an interdisciplinary investigation of one of the most under-appreciated aspects of mining, the "cultural landscape," the image of a place based upon its visual characteristics. In Hard Places: Reading the Landscape of America's Historic Mining Districts (Ames: University of Iowa Press, 1991) Francaviglia assumes that much of the U.S. landscape which extends from the anthracite and bituminous coal fields of the East to the iron ore, copper, and uranium fields of the West has been created by the technology used during the production process. The abandoned towns and

mining facilities that dot the countryside should not be characterized as "a ruined hellish wasteland," according to Francaviglia, but perceived, interpreted, and remembered within the same framework held by the operators who reshaped the land. To Americans in the late nineteenth century mining activities symbolized progress and domination over nature. Hard Places provides an overview of mining landscapes and a guide for developing a better understanding of them.

Francaviglia provides the reader with three chapters to initiate this process. In the first one learns how the natural and "persona-made" configuration of a site, its physical layout, and the design of buildings help shape mining regions. Surveying photographs, maps of infrastructure development and other local historical and archaeological collections can augment what one might see and find when investigating a mining area. Interpreting the landscape is a process where an analysis of mining landscapes should include aesthetic factors as well as the social forces which, combined, shape a region's heritage.

However, the story of mining is also a story of conflicting elements. Socially they were stratified by race, ethnicity, class, and gender. Yet houses, commercial buildings and other functional buildings were physically homogeneous. Francaviglia attributes this lack of physical diversity to the domination of large corporations, which expected their mining engineers to also serve as architects. The lay-out of towns and company housing done by these engineers tended to be as standardized as the production processes they designed.

Francaviglia sees the growing interest in historical preservation as one of the most powerful economic and social forces affecting modern perceptions of mining landscapes. Spurred by the Historical Preservation Act of 1966, preservationists aim to identify and evaluate all historical resources and to preserve historically significant ones. More often than not these

selection processes, according to Francaviglia, are narrow and lack a broader interpretation of what happened to these industrialized areas. Developing a holistic perspective of today's mining landscape depends on how well one utilizes all available clues, including topography, the nature of the extraction process, weather conditions, and re-vegetation, among numerous other considerations.

Francaviglia's perspective is shared by numerous professionals including archaeologists, architects, mining engineers, geographers and historians. However, the author overlooks some key elements for understanding the coal story. He does address the role of the operator and mine worker, but the discussion is often overwhelmed and lost in the description of the physical structures. It is equally important to remember that although these communities and area were hard places to live, they were decided upon, invested in, planned, and maintained by human beings, a point Francaviglia does not seem especially interested in. The stories of mine workers and their families, which unfolded throughout the 19th and 20th centuries, still affect us today. Understanding how resources were developed in our country may help us gain more insight into what it takes to develop resources on a much larger scale in the contemporary global economy.

INVESTORS AND INTRA-REGIONAL INTERLOCKINGS IN THE COAL FIELDS:

Central Pennsylvania is one of the oldest bituminous coal mining sections in the United States. Tioga, Clearfield, Huntingdon, and Cambria counties were producing coal prior to the Civil War. During the late 19th century Pennsylvania's fields were rapidly developed by outside interests from New York, Philadelphia, Baltimore, and Pittsburgh. The invasion of these investors and coal operators represents a classic case of economic colonialism similar to what has been documented in other Appalachian regions. The eastern/central division was acquired by the Rockefellers through their corporate holding, the New York Central Railroad, and its subsidiary, the Clearfield Bituminous Coal Company.¹ By the 1920s the CBC owned coal property in Center, Clearfield, Cambria, and Blair counties. It leased 47,000 acres of land "in fee" and 12,000 acres in leaseholds to the Pennsylvania Coal & Coke Corporation (Moody's Manual of Investment, 1928, p-726). The extreme west/southern fields were dominated by the Mellon/Carnegie/Frick interest and later by J.P. Morgan after he transformed the Carnegie Steel Company into U.S. Steel in 1901.

The discovery of coal in central Pennsylvania was facilitated in part by two state sponsored geological surveys. The first in 1836 documented the existence of a coal belt from the counties of Clearfield and Jefferson, in west/central Pennsylvania, to the Maryland border. The second survey (1874) had a more direct personal impact on the region. One of the nine surveyors, Franklin Platt, the assistant geologist of the state of Pennsylvania, eventually became the President of the Rochester and Pittsburgh Coal and Iron Company.

¹. The CBC had originally been organized by Cornelius Vanderbilt, and William K. Vanderbilt in 1883 to obtain coal lands in Pennsylvania. In 1885 the Vanderbilts' southern Pennsylvania line, which extended into central Pennsylvania, and later into Indiana County, passed to the New York Central. By 1889 both the New York Central and the Pennsylvania Railroad began buying controlling amounts of stock in their southern competitors, the Baltimore & Ohio, Chesapeake & Ohio, and the Norfolk & Western. All of these concerns acquired large holdings in the central and southern coal fields particularly in West Virginia (John Alexander Williams, West Virginia and the Captains of Industry, p-155/6).

As the coal region developed, inter-locking connections were established between investors, operators, and railroads in northern, central, and southern Appalachia. Most of the larger concerns built an intra-regional system of parallel production. During peak market conditions underused facilities were utilized to meet heavy market demands, while in the case of work stoppages production was usually shifted to non union areas, making the system a formidable weapon in the operators' arsenal for beating back worker and union demands. Curtis Seltzer in Fire in the Hole: Miners and Managers in the American Coal Industry, (Lexington: University of Kentucky Press, 1985), argues that these relationships were similar to what transpired in the anthracite coal fields of eastern Pennsylvania and were continued as investors moved west and southward into the bituminous fields. According to Seltzer:

Through control of investment capital and ownership of stock, the Rockefeller and Morgan interests shaped coal policy in both anthracite and bituminous. Bankers saw the coal industry in a different light than suppliers. Shifts in production from anthracite to bituminous were economic rationalizations that did not threaten their long-term interests. Banks provided a kind of private sector planning committee for parts of the coal industry before the New Deal.²

The Madeira, Hill & Company of Philadelphia is one example of this type of investment pattern. In 1918 it owned anthracite mines in Wyoming, Lehigh, and Schuylkill counties and a large number of bituminous mines in the Clearfield region of Pennsylvania and the Fairmont district of West Virginia.³ Vice President and Chair of the Board of Directors, R.C. Hill, was also a board member of the Bank of New York and Trust Company, and Chair of Consolidation

². Seltzer, Fire in the Hole, p-37.

³. Coal Men of America, p-358.

(Rockefeller) Coal Company.⁴

The Berwind-White Coal Mining Company of Philadelphia also had considerable interests in both regions. Organized in Pennsylvania in 1915 by Edward J. Berwind, it owned the New River and Pocahontas Consolidated Coal Company, the third largest producer in West Virginia, and over 100,000 acres of coal lands in Pike County Kentucky as well as the Kentland Coal & Coke Co. and the Kentland-Elkhorn Coal Company. As a result of his influence in coal and banking, Edward Berwind assumed virtual control of coal sales to the Pennsylvania Railroad. The Berwind-White Pennsylvania mines were located in Somerset and Cambria counties. The company became one of the largest producers of bituminous coal in the country with interests expanding into Cuba and Puerto Rico.⁵

⁴. Lundberg, America's 60 Families, pp-223, 382. Consolidated owned mines in the central and southern fields.

⁵. Ronald M. Eller, Miners, Millhands, Mountaineers, pp-137/8; The National Cyclopedia of American Biography, Vol. 38, p-115.

THE RISE OF THE UNION IN CENTRAL PENNSYLVANIA:

The American Miners' Union (AMU) was the first large scale union to inhabit Pennsylvania's bituminous fields.⁶ Its national membership was scattered throughout Ohio, Pennsylvania, and Maryland and was hailed as a model for unionism in the future. Instead of defining its mission on a strict skilled craft basis it attempted to organize workers along industrial lines and took progressive stands on cultural issues such as supporting efforts to stop ethnic discrimination. But as a result of the impact of a dwindling market in the post Civil War period and legal maneuvering by operators, the union disappeared by the end of the 1880s.

On October 18, 1873, another national miners group was founded in Youngstown Ohio, the Miner's National Association (MNA). Miners from Illinois, Indiana, Ohio, Pennsylvania, West Virginia, Maryland, Missouri, and Wyoming were represented by the MNA whose membership grew to nearly 25,000 in the first year. By 1875 it had over 35,000 members in twelve states and ventured into a cooperative mine project in Tennessee. Despite these rapid successes, market forces and the arrest of their national officers for criminal conspiracy in Clearfield County, Pennsylvania, took their toll on union membership. By the end of 1876 the union was gone.

The Knights of Labor, represented as the Local Assembly No. 135 of the Knights of Labor, and a number of local organizations rose to fill the gap left by the collapse of the MNA.⁷ The Miners and Laborers Union organized by W.B. Wilson, later U.S. Secretary of Labor under

⁶. The first known attempt to organize mine workers in Pennsylvania occurred in the anthracite region prior to the Civil War. The "Bates Union," named after its founder, John Bates, lasted for only a few months between 1849/50 in the Schuylkill region (Maier Fox, United We Stand: The United Mine Workers of America, 1890-1990, Washington D.C.: International Union, United Mine Workers of America, 1990).

⁷. One of the Knight's most famous strikes in western Pennsylvania occurred along the Monongahela River near the community of Brownsville in 1894. Over 5,000 miners participated in the walk out which was characterized by massive evictions, blacklistings, and the killing of 17 miners by a band of deputy sheriffs (The Liberator, Vol. 5, No. 5, May 1922, pp-5,9).

Woodrow Wilson, emerged as the most successful local effort. It, along with the shell of the Local Assembly No. 135, coalesced to form local unions of the United Mine Workers of America around 1890. District 2's first wage agreement with the Association of Bituminous Coal Operators of Central Pennsylvania was signed at South Fork, Pa., in Cambria County on May 1, 1899.⁸ Membership in District 2 immediately increased from approximately 30,000 at the turn of the century to over 46,000 in the early 1920s.

Despite these gains in unionization, central and western Pennsylvania continued to develop parallel non-union tendencies. Somerset, Westmoreland, and Fayette counties emerged as the most anti union sections in the region. The UMWA did win an early recognition in Somerset, but on December 1, 1903 the majority of the operators declined to renew their contracts with the union. The miners responded with a strike that lasted until April, 1904. In the end the operators prevailed with only one company not joining the open shop movement, the Brothers Valley Coal Company.⁹

One of the region's earliest violent conflicts occurred in Westmoreland County in 1874 when Italians were imported as strike breakers at the Armstrong Coal works. The Italians were met by riots and armed attacks in which several of the newcomers were killed.

Between 1889 and April 1, 1917 only one general strike occurred in central Pennsylvania, the 1906 strike. In the wake of that conflict operators attempted to weaken the union by carrying out a widespread blacklisting campaign.¹⁰ Other operators responded with more violent means.

⁸. The initial idea of organizing a UMWA district in central Pennsylvania came out of a meeting that was held at Tyrone Pa. in 1899. Some central Pennsylvania operators did sign contracts with the pre-UMWA unions as early as April 1, 1886 (Brief of the Central Pennsylvania Coal Producers' Association and the Association of Bituminous Coal Operators of Central Pennsylvania, presented to the U.S. Coal Commission, June 12, 1923, p-39).

⁹. (Coal Age, 1/14/26, p-45, 46, 47 & 48).

¹⁰. John Brophy Oral History, [Columbia University Oral History Project](#), 1954, pp 55/6.

In 1916 union organizers were physically assaulted while participating in union activities at the Ebensburg Coal Company's mines near Colver, Cambria County. Later in the same year three men were shot by sheriff's deputies while striking for the union at Edri, Indiana County.¹¹p-1.

Class relations heated up during and after World War I. According to figures compiled by the Central Pennsylvania operators over 664 local strikes occurred in UMWA organized mines between April 1, 1916, and April, 1922.¹² Rank and file opposition continued throughout the 1920s cumulating in two major work stoppages, the 1922 and 1927 strikes. District 2 of the UMWA entered the 1920s with a membership of over 45,000 and exited with virtually no local unions, a mere empty shell on the eve of the New Deal.

¹¹. Indiana Evening Gazette, 2/17/16, p-1; Ibid, 12/5/16,

¹². That total rose in excess of 1,000 when counting the strikes that occurred in non union operations (Central Pennsylvania Coal Producers' Association Brief to the 1923 U.S. Coal Commission, p-53).

THE EARLY 20TH CENTURY: A CASE STUDY:

Initially immigrants from Britain made up the bulk of the mine workers in the northern Appalachia fields. By the turn of the 20th century eastern and southern Europeans were recruited to meet the growing needs of an expanding industry. Employment of these latter groups became noticeable when the former were forced to move to the western fields in Kansas and Oklahoma as the result of the operators beating back organizing drives of the Miners' National Association in Pennsylvania with the use of "blacklegs" or strike breakers.

Importing strike breakers became unofficial labor policy early in the history of the northern fields. One of the region's first agency specializing in recruiting "blackleg" was established in Pittsburgh in 1864. The Pittsburgh Gazette reported the organization guaranteed its customers that it could deliver both skilled and unskilled laborers of all kinds. Shipments of workers came from Great Britain, Germany, Belgium, France, Switzerland, Norway, and Sweden. The Brady's Bend Coal Works in Armstrong County was one of the first companies to utilize these services when it used over three hundred Belgian miners to break a strike in 1864.¹³

The importation of African American labor from the south was another part of the operators' to defeat the union during these early battles. The use of southern African American labor was particularly crucial to stemming the tide of organizing efforts in Ohio's Hocking and Tuscarawas Valley in the early 1880s. After 1882 bringing southern black labor north became the unofficial policy of many of the major operators in the Pittsburgh district.¹⁴

¹³ Pittsburgh Gazette, 3.30.1864, minutes of the Pittsburgh Coal Exchange. One regional operator was able to guard his strikebreakers with U.S. soldiers during the latter part of the Civil War (Pittsburgh Gazette, 2/27/1865).

¹⁴ African Americans lived in the region since the early part of the 19th century - both as slaves and freedmen. In 1810, for example, the first census for Indiana County listed only fourteen "colored" persons. The ratio of blacks to white was one to 444. By 1850 the African American population reached 254.

Progressive organizations were also a part of the region's heritage. One of the first known anti-slavery societies, the Indiana County Anti-Slavery Society appeared in 1837. The county also produced an abolitionist newspaper which battled slavery for nearly twelve years. Later under the supervision of one of the county's medical doctors,

The H.C. Frick Coal and Coke Company, of western Pennsylvania, also began importing southern African American miners as early as 1892. As late as 1920 there were hardly more than 3,000 African American miners in the state. Most were confined to the Connellsville coal and coke section in Fayette and Westmoreland Counties until the major labor disputes of the post WWI period.¹⁵

Increased labor demand needed to meet escalating war-time production served as the major magnet for attracting black workers into the coal industry. Between 1910 and 1920 the black population in southern West Virginia, for example, increased to almost 50 percent, from 40,000 to 60,000. The number of black coal miners increased from 11,000 in 1915 to over 15,000 during the war years. This accounted for nearly 25 percent of the region's labor force, while immigrant labor declined from 31 to 19 percent during the same period.¹⁶ A second wave of black migration hit the central Pennsylvania region in 1923. In July local newspapers reported that over 7,000 southern blacks arrived in Altoona within a "few week period" to work for the Pennsylvania Railroad" (Indiana Evening Gazette, 7/19/23, p-7)

Despite these major changes the UMWA was not able to gain a substantial hold in southern West Virginia. Organizing drives and strikes for union recognition did occur, the most

Dr. Robert Mitchell, the region became an important link in the underground railroad, connecting the Pittsburgh line to Clearfield, central Pennsylvania's link to New York State.

Another Indiana county resident, Absalom (Albert) Hazlett, participated in John Brown's raid on Harpers Ferry and is buried with his fallen comrades on Brown's farm near Lake Placid New York (Clarence D. Stephenson, The Impact of the Slavery Issue on Indiana County, Indiana County Historical Series Number Two, Marion Center: Mahoning Mimeograph & Pamphlet Service, 1964, p. 1).

¹⁵. Spero & Harris, The Black Worker, pp-212, 213.

¹⁶. Joseph Trotter, "Race, Class, and Industrial Change: Black Migration to Southern West Virginia, 1915-1932," p-49. In Joseph Trotter, ed., The Great Migration in Historical Perspective: New Dimensions of Race, Class, and Gender, Bloomington: Indiana University Press, 1991.

The black population in the state of Pennsylvania increased during this period from nearly 194,000 to almost 300,000. Most settled in Philadelphia but others scattered throughout other industrial communities including Lancaster, Pottsville, York, Altoona, and Harrisburg, among other cities (Emmett J. Scott, Negro Migration During The War, New York: Arno Press, 1969 p-134).

famous being the Matewan incident in the 1921, but operators were able to keep the union out by employing a number of tactics including:

appealing to mine worker individualism by portraying the union organizers as outsiders; hiring a "judicious mixture" of whites, blacks, and foreigners to forestall unionism by pitting one group against another; invoking nativism as upheld by the Ku Klux Klan and other groups and individuals; aligning with local black community leaders who would impede black miner militancy; the ability to tap into a large reserve of workers from southern rural and urban areas; and fostering among black miners the idea that they were not given the same opportunity for advancement in the union fields as compared to non-union fields of West Virginia.¹⁷

¹⁷. Spero & Harris, The Black Worker, pp 357-378.

NORTHERN OPERATORS PERSPECTIVE ON BLACK MINERS:

Treatment of black miners by northern operators was mixed. Some refused to hire both blacks and Mexicans purely on racist grounds, while others maintained the recruitment patterns initiated in the 1880s by the H.C. Frick Company and others.

One of the most candid manifestations of the former attitude came during hearings conducted by the U.S. Senate Committee investigating conditions in the coal fields in 1928. Both Mr. F.D. Welsh, superintendent of the Clearfield Bituminous Coal Corporation Rossiter (CBC), Indiana County mines, as well as Mr. Fred Musser, the CBC's vice president, had an opportunity to share their company's perspective on race with the committee members. Part of the exchange between the committee and superintendent went as follows:

Senator Wheeler: As Superintendent of the mine do you find that you can get as efficient help at the present time as you could under organized labor?

Mr. Welsh: We have done so. As a matter of fact, our labor has been improving, and it is almost entirely from right here in Pennsylvania, and they are experienced and practical miners.

Senator Wheeler: Are they colored or white?

Mr. Welsh: They are entirely white. We have never employed colored men. We have drawn the line at Mexicans and Spaniards and people of that class.

Senator Wheeler: You do not feel that the Mexicans and colored are as efficient miners as white men?

Mr. Welsh: Colored men are very efficient miners in many cases, but it makes a very undesirable element in the community. We take great pride in our schools, and take great pride in our churches, notwithstanding what has been said about this injunction, and we contribute to them. We contributed \$22,000 to a school building in addition to our contribution by way of taxes. We do not want to bring in colored men and undesirable people and decrease the standing of the community, and particularly the schools.

Senator Wheeler: And you feel that the bringing in of colored labor in any community has a demoralizing effect?

Mr. Welsh: I do.

Senator Wheeler: Upon the community as a whole?

Mr. Welsh: I do, and I would not do it.

Senator Wheeler: Is it not a fact that it lowers the standard of morality of the people as a whole to bring in a large number of colored people?

Mr. Welsh: I have not had any actual experience and have never employed them, but from what I have observed in other places I think that is the result.

Senator Wagner: Their way of living, their accommodation, the way they sleep and live generally make a great deal of difference in the matter of the morality of the people.

Mr. Welsh: You are entirely right.¹⁸

Other operators expressed more favorable but still racist and paternalistic perspectives on the black miner. Horace Baker of the western Pennsylvania Pittsburgh Terminal Coal Company told the 1928 Senate sub-committee that blacks performed as well as white miners when doing similar mining tasks. But perhaps a more revealing insight into how western Pennsylvania operators viewed blacks can be found when examining the living conditions companies provided black miners during the '27 strike. According to one account: "these barracks (occupied by black miners) were poorly ventilated, filthy, unsanitary, and some of them... infected with vermin and hardly fit to house beasts, much less human beings who are employed in the mines all day where the sun's rays never penetrate, and where at best the air they breathe is never very pure. A

¹⁸. Hearings before the Committee on Interstate Commerce, United States Senate, 70th Congress, 1st Session (S. Res. 105), 1928, Pt. 2, p-281.

number of miners were interviewed in this mine by your committee, but found few of them were satisfied with their conditions, and some of them expressed great discontent."¹⁹

¹⁹. Hearings before the Senate Sub-Committee, Pt. 2, p. 346, as quoted in Spero & Harris, The Black Worker, pp 236 & 237.

THE UMWA'S PERSPECTIVE ON BLACK MINERS:

Compared to AFL unions the UMWA maintained a progressive position on race. The international union by constitutional decree mandated it unlawful for its members to hold membership in the Ku Klux Klan.²⁰ Many UMWA districts, such as District 2 of central Pennsylvania, as well as local unions adopted similar decrees.

Despite these actions the Klan became one of the major social movements of the 1920s. While they marched on Washington and carried out cross burnings and lynchings nation-wide, over 125,000 western Pennsylvanian's joined the hooded order. They built a series of Klan farms throughout the region to act as sites for their mass rallies. The Indiana Klan attracted between 35,000 and 40,000 to dedication ceremonies of its farm in 1924.

Most of the Klan's hostility in central Pennsylvania was directed more toward ethnic miners, particularly Italians and Eastern Europeans rather than blacks.²¹(David M. Chalmers, Hooded Americanism: The History of the Ku Klux Klan, New York: Franklin Watts, 1981, pp 239/40; Indiana Evening Gazette, 8. 14. 25, p. 1).

One of the most unusual treatments of imported black strike breakers by local and district level union officials took place in the Kiski Valley, Westmoreland & Indiana Counties, during a strike in 1917. A campaign to organize non union sections of the valley began in 1914.

²⁰. From its founding in 1890, the UMWA's constitution banned "discrimination against a fellow worker on account of creed, color or nationality" (Constitution of the United Mine Workers of America, Article VII, Section 3).

²¹. The relationship between the Klan and African Americans in Indiana County took a rather odd twist. Some African American families were invited and did attend Klan picnics without the fear of racial threats or assaults (Interview with Sherman Schofield Sr., an African American who worked as a coal miner during the 20s & 30s, by the author, 8/15/88, Chevy Chase, Indiana County).

The most famous case of the Klan's anti-ethnic activity in the region turned to violence in the mining town of Lilly in Cambria County on April 6, 1924. Klansmen converged on Lilly by train from Johnstown "to give the micks something to think about." Four men died from the encounter, with Klansmen from Indiana County playing a prominent role in the adventure. The following year a group of miners completely destroyed the Indiana Klan Farm with an incendiary bomb. Membership in the Klan persisted in the region throughout the '20s. The Indiana Klan Farm continued up to 1930 when it passed into receivership

Operators responded to these efforts by declaring that all miners who had joined the union should leave or be fired. Relations between the two sides flared up again in 1916 when the entire Kiski district went out on strike for "the right to organize, the eight hour day, the right to a checkweighman, and a general advance in wages."

The company responded by hiring gunmen, importing strikebreakers from nearby Pittsburgh, and gained an injunction which denied the strikers their right to a free press, free speech, and hold public meetings. The injunction was issued and made permanent by Judge John Langham of Indiana Pa.²² The UMWA called it one of the most "unjust, one-sided, unpatriotic" injunctions ever issued. According to the UMW Journal these actions demonstrated that:

These coal operators with the assistance of unscrupulous judges would like to establish a government by injunctions instead of a free government for which great men shed their blood and thus made it possible for our nation to become great.²³

Tensions between the two sides increased when the companies tried to import 200 black strike breakers from Birmingham Alabama into the Kiski Valley.²⁴ Before entering the mining area four UMWA officials flagged down the train at Tarentum but were denied the right to speak to the black workers. The organizers lead by the infamous first woman UMWA organizer of the region, Miss Fanny Sellins, were able to convince about 100 to jump from the windows and join

²². Langham and his injunctions contributed to the coal companies victories over the miners and the union in 1919 and throughout the 1920s. His injunction against miners during the 1927 strike, "the Rossiter Injunction," became synonymous with oppression and cast the Indiana County Judge into the national spotlight when he was questioned before the Senate Sub-Committee about the intentions of the ruling.

²³. United Mine Worker Journal, 3. 22. 17, p-7.

²⁴ Eighty-four black strike breakers were sent to Hooversville, Somerset County, during this same time period (Telegram from "Burt" to District 2 President John Brophy, 4. 17. 17, UMWA District 2 Series II, John Brophy Box 16, File Folder #1, UMWA District 2 Archives, Indiana University of Pa.).

the strike.²⁵ Those who deserted marched singing and cheering behind Miss Sellins into New Kensington where they were taken to the Slovak Falcon Hall and cared for until arrangements were made for those wishing to return to Birmingham or desiring employment in the local area.²⁶

The strike was settled within one month after the incident. The existing records do not indicate how this display of class solidarity along racial, ethnic, and gender lines influenced the operators' decision to reach a settlement. It does appear to have helped swing the strike momentum to the mine workers' favor.

About four weeks after the encounter, a huge Miners' Day rally was staged in New Kensington and Leechburg which brought out several thousand in each city. Speeches were given by international, district, and local mine worker officials who cited their strike accomplishments, including the black strike-breaker story, as contributing factors to their seemingly imminent victory. The burgess of Leechburg welcomed the UMWA to his town, while over 2,000 spirited rank and file miners paraded 10 miles in the rain past the mines on strike in the Kiski Valley. Operators reacted to Miners' Day by closing their operations and sending the handful of remaining strike-breakers home, and put their coal and iron police.²⁷

The reaction by miners was markedly different during the 1927 strike. Prior to the strike 6,000 strike breakers, half of them African American, were transported into western Pennsylvania. These activities angered both the local and national union leadership. In some cases these hostile attitudes were carried out in acts of physical violence which led to numerous

²⁵ Fanny Sellins started working for the UMWA as an organizer in Cowlers, WVA, in 1914 where she was jailed for providing striking miners with food, clothing and other assistance. She later received Executive Clemency from the charge. Fanny was eventually shot and beaten to death by Allegheny County sheriff's deputies along the Allegheny/Westmoreland County line near New Kensington during an organizing event leading up to the 1919 coal strike.

²⁶ UMWA Journal, 3. 15. 17, p-6.

²⁷ UMWA Journal, 4. 12. 17, p-7 & 26.

injuries, and in some cases murders. The following is a list of murders of African-Americans committed in two Coal Company mining camps during the 1927 strike in western Pennsylvania.²⁸

TABLE 1: 1927 STRIKE: AFRICAN-AMERICANS MURDERED

NAME	EMPLOYER	CAUSE OF DEATH	LOCATION
Arrie Wilson	Pittsburgh Coal Co.	Shock & hemorrhage following gunshot wound to chest	Blythesdale
John P. Black	Pittsburgh Coal Co.	Shock & hemorrhage following gunshot wound to neck	Pittsburgh
Otis Simon		Shock & internal hemorrhage following gunshot wound to left side of chest	McKeesport
Laura Holyfield		Shock & hemorrhage following a compound fracture to skull from blows with an ax	Bethel Twp.
James Lawrence	Pittsburgh Coal Co.	Shock & hemorrhage following gunshot wound to chest	Moon Run, Robinson Twp.
Frank Snapp	Pittsburgh Term Co.	Shock & hemorrhage following gunshot wound to chest and neck	Bruceton
Robert Holsley	Pittsburgh Coal Co.	Shock & hemorrhage following gunshot wound to chest	Cliff Mines
Floyd Sidney	Pittsburgh Coal Co.	Shock & hemorrhage following stab wound to heart	North Fayette Twp.

Source: U.S. Senate Commission, cited in Spero & Harris, P 234.

According to Linda Nyden it was these racist attitudes along with physical assaults that

²⁸ Violent attacks against black miners were not uncommon in parts of the region. One black miner was shot to death and another injured by two striking "foreign" born miners near the town of Edri, Indiana County. Although the incident was witnessed by the victim's associates, the two perpetrators were acquitted when brought to trial (Indiana Evening Gazette, 1.24.22, p. 1 & 1.25.25, p.1) One resident of Edri maintained that there were many more black miners killed during the strike but were never discovered by the authorities because "they were buried under the boney pile." (Anon interview by Jack Smith near Edri, 7.15.88).

contributed to black union members deserting the UMWA and the subsequent creation of an even larger strike-breaking work force. Black membership in the UMWA dropped from 25,000 in 1920 to no more than 5,000 nation-wide in 1927. Prior to the strike, District 5 (Western Pennsylvania) had 3,000 black members out of a total of 45,000.²⁹ This factionalism would nearly deal the union a death blow. Instead of maintaining a path toward coalition building the union stumbled into the destructive process of splintering along racial, ethnic, and class lines.

²⁹. Nyden, "Black Miners, 1925-1931," p 77.

CONCLUSION:

Conditions in the coal fields worsened following the '27 strike. Some families took up residency in abandoned beehive coke ovens, shanties, and chicken coops. The State Health Department's Bureau of Vital Statistics released a report showing infant mortality rates had risen to astronomical heights with Cambria, Fayette, and Washington counties showing the highest rates of over 100 deaths per 1,000 live births. Indiana, Westmoreland and Greene counties followed with a rate of 90-99 per 1,000, and Somerset, Bedford, Fulton, Blair and Huntingdon counties with 80-89 per 1,000. Infant mortality rates in the bituminous coal region, spurred by the decline in the standard of living, were identified as the highest in the state.

The United Mine Workers of America was virtually destroyed by the end of the '20s. The union's membership declined nation-wide from over 400,000 in 1920 to 100,000 by 1929. Outside of Illinois, the union was a mere paper organization. Nearly every mining operation was non union in central Pennsylvania. The District office of the UMWA reduced it's staff to three officers, a president, vice-president, and secretary/treasurer.

The failure of the UMWA both in the north and south was the result of lack of resources, internal union disputes from the international down to the rank and file, and an inability to offset the divisive strategies initiated by the operators. The issue of race along with the ability to gain protection from the state and the judicial system were among the major factors that helped the operators achieve victory over the UMWA.

Although the post WWI era was marked by severe setbacks, mine workers continued to protest and agitate for a more equitable distribution of wealth. Ultimately their sacrifices helped set the stage for the return of the UMWA and the rise of industrial unions in the 1930s.

TIMELINE: AN OVERVIEW CHRONOLOGY OF MAJOR EVENTS RELATED TO CENTRAL

PENNSYLVANIA'S COAL INDUSTRY IN THE 19TH AND EARLY 20TH CENTURY:

- 1816-17 Colonel Isaac Meason builds the first rolling mill west of the Alleghenies at Plumstock in Fayette County. Here, for the first time in the United States, so far as records indicate, coke was made and put to use in puddling and heating iron.
- 1819 The first coke blast furnace in the United States, the Bear Creek Furnace in Armstrong County, was designed and put into operation by Thomas C. Lewis, a Welsh ironworker who initially worked at Meason's Plumstock mill.
- 1835 Broad Top coal in Huntingdon County is coked and used in the Mary Ann Furnace owned by William Firmstone. Firmstone reports having made good iron for one month.
- 1836 The Fairchance Furnace, near Uniontown, produces one-hundred tons of coked pig iron. The Oliphant family, owners of the furnace, abandons their experiments due to the poor response of the coke iron under the forge hammer and return to using charcoal.
- 1837-39 Several hundred tons of coked pig iron are made at Farrandsville, between 1837 and 1839.
- 1838 Peter Ritner and John Say make coked pig iron at Karthaus, Clearfield County. Henry C. Carey, John White, Burd Patterson, and others buyout Ritner's & Say's Clearfield Coke and Iron Company but poor transportation and inferior ore rather than poor coking coal put an end to the project by 1839.
- 1840 By the 1840s there are only four coke furnaces in blast in Pennsylvania. These belonged to the Western Iron Works at Brady's.
- 1841-2 The manufacture of Connellsville coke begins. The economic depression in the coal and iron industry in the late forties postpones the major development of the Connellsville coke region until the 1850s.
- 1848 In September the Monongahela Valley coal miners strike against a reduction in wages.
- 1849 The depression takes the toll of the few early blast furnaces. By 1849 there are no coke fired blast furnaces in operation in Pennsylvania.
- 1850 The Cambria Iron Works builds four coke blast furnaces.
- 1853 The standard-gauge Huntingdon and Broad Top Mountain Railroad are built between Huntingdon and Saxton. A line is also completed to Hopewell in 1856. The first coal is shipped on the railroad from the Old Barnett mine at Dudley by

Orbison, Dorris & Company in 1855.

1859 The Clinton Furnace of Graft, Bennett and Company, becomes the first coke fired blast furnace in Pittsburgh. Coke from the Connellsville area is used by the company in 1860. The use of coke and bituminous coal in blast furnaces increases the consumption of Pennsylvania coal approximately one quarter of a million tons a year for the five years preceding the Civil War.

The Monongahela Valley miners strike for the installation of scales at the mines to determine the amount of coal dug. The strike affects mines in Allegheny, Washington and Westmoreland counties, which produce the bulk of output in Western Pennsylvania. The miners eventually lose. Miners who continued the struggle were eventually starved into submission.

1860s Experimental use of Broad Top coal by the Pennsylvania Railroad proves that coal can be used successfully as a locomotive fuel.

1861 The Six Mine Run branch of the Huntingdon and Broad Top Railroad is completed from Riddlesburg to Coaldale.

1864 In January, in the Pittsburgh region, mine workers succeed in increasing the mining rate from four- to five-cents a bushel. Rates are raised to six-cents in April when some miners threaten to strike. In response to a strike in August and September operators establish a seven-cent rate.

Three-hundred Belgian miners are imported to replace striking miners at Brady's Bend Coal Works.

The American Emigrant Company opens a Pittsburgh branch office. The company specialized in bringing in skilled immigrant workers for nearly any type of occupation. The company also specialized in providing immigrant strikebreakers.

1865 The use of strikebreakers in one Western Pennsylvania mine influences the miners to accept the operator's five-cent rate. Because the operator was furnishing coal on a government contract, the strikebreakers were guarded by soldiers. This marks the beginning of official industrial policy regarding the importation of strikebreakers for many companies throughout Western Pennsylvania. This practice continues today.

1868 The Kimble Coal & Iron Company erects the first "modern" blast furnace in the Broad Top area at Riddlesburg. The furnace represents the first large scale use of Broad Top Coal for coking purposes.

1874 The National Miners Association (NMA) holds its annual convention in Pittsburgh.

Membership in the NMA increases as they threaten to conduct a strike in the anthracite region.

In January, John Siney appeals to the miners of Pennsylvania and members of the State Council of the Miners and Laborers Benevolent Association to hold their annual meeting on March 24 in Harrisburg.

In January and February, the National Miners Association campaigns against free trade along the Monongahela River. Miners receive four-cents a ton, the Association said that if there were no tariffs the mines and mills would be closed. The editor of the National Labor Tribune criticizes the Loyalhanna Coal and Coke Company of Latrobe for mistreating workers and having bad working conditions.

A branch of the National Miners' Association is started at the Cambria Iron Works in March. In response to rumors of a pending strike, the iron works closes parts of the mill and locks out some of the miners. The miners respond by striking.

Miners at Morrisdale, Clearfield County decided to join the National Miners Association. The company responds by trying to discharge and blacklist union organizers. The miners' strike at the Cambria Iron Works continues into May with more local unions formed. A May 20th demonstration is held and the NMA moves to divide the mining community into a larger district.

In May, miners at Fayette City strike at Frazier & Frye mine because of a three-and-one-half-cent wage reduction. By June the Cambria Iron Works strike is still at a stand still. Various unions hold a public meeting, with 900 to 1,000 workers attending.

The narrow-gauge East Broad Top Railroad opens between Mount Union and Robertsdale where the Rockhill Iron & Coal Company opens a series of coal mines on the eastern side of the Broad Top field.

1875

Miners in Houtzdale, Clearfield County, go on strike for an advance of ten-cents per ton in April. The National Labor Tribune supports the strikers, arguing that the operators were selfish for not meeting the miners in an open conference. The company responds by hiring 100 strikebreakers ("Buckwheats," sic) and evicts strikers from their homes.

The Franklin Coal Company brings in 250 more strikebreakers from Philadelphia in May. More than 150 leave the area when they are met by over 600 strikers. All but four of the remaining replacement workers join the striking miners. The Fisher & Brother Coal Company also tries to bring in strikebreakers, mostly Italian, but they are run out of town. The companies win the strike, blacklist many miners and bring 58 to trial on conspiracy charges.

In June, thirty miners in Clearfield County are convicted of the charges while their strike leaders, John Siney and Xingo Parks, are arrested. Siney is later found not guilty while Parks is sentenced to a one-year prison term. He and other miners were later given pardons of all charges from the Governor.

1876 The Huntingdon & Broad Top Railroad constructs the Sandy Run Branch east of Hopewell, Bedford County.

1878 Statistics for the First Bituminous Coal District of Pennsylvania were:

- Total Coal Shipped: 9,372,881 tons.
- 217 coal mines operating in 1878.
- 244 in 1979.
- 93 reported accidents, 32 fatal.
- Average number of miners employed in each mine of the first district, 77.
- Average amount of coal mined by each mine, 500 tons.
- Estimate of the total number of miners employed in the district, including day hands, 18,011.

1879 In March, 72 miners and their families were given eviction notices in Saltsburg, Pennsylvania. The miners, who worked for three-cents a ton, were given seven days to get out of the company houses. Some had their belongings thrown out into the street immediately without advanced notification.

Miners conduct a strike in the coke region after the companies impose a wage reduction on them. The miners made twenty-five cents per wagon of coal, they asked for thirty-cents per wagon. The strikers hold a mass protest rally at the Black Diamond Coal Company near Fayette City. Eventually the miners win.

Miners at the Mineral Ridge Coal Company go out on strike June 1 against a ten-cent wage reduction; seven of the miners were arrested. They receive support from miners in DuBois.

1879-82 Two blast furnaces are erected at Saxton while coke ovens and mines are opened at Minersville. The Everett Iron Company opens a furnace at Everett as well as a series of mines and coke ovens at Kearney.

1890 The National Federation of Miners and Mine Laborers (NFMW) and the Knights of Labor's National Trade Assembly #135 merge to form the United Mine Workers of America (UMWA).

1894 Over 5,000 miners strike near Brownsville in 1894. The walkout was characterized by massive evictions, blacklisting, and the killing of seventeen miners by a band of deputy sheriffs.

1899 UMWA District 2's first district wide wage agreement is signed at the Cambria

County community of South Fork on May 1st.

1906 First general strike in District 2 occurs on April 1st. Three striking miners are shot and killed by sheriff's deputies at Windber.

1910-11 Non-union miners in Westmoreland County respond to a UMWA organizing drive by waging a one-and-a-half year strike. Operators beat back the effort by protecting scab labor with Coal & Iron Police and private deputies. The union spent over \$1 million on the fight.

1916-22 Over 1,000 local coal strikes occur in Central Pennsylvania.

1916 John Brophy elected President of District 2 of the UMWA.

1919 May 1st, Red Scare sweeps Central Pennsylvania. International Labor Day celebrations are banned in various communities throughout the region.

District 2 endorses the establishment of Americanization schools at their October 21st convention in Johnstown.

Fanny Sellins, the UMWA's first woman organizer in Western Pennsylvania, is beaten to death by sheriff's deputies near New Kensington, Allegheny County.

On November 1st, 400,000 UMWA miners stage a nation-wide strike. Over 75,000 Pennsylvania miners (45,000 from District 2) join the walkout. Central Penna. miners try to organize steel workers in Johnstown. William Z. Foster, head of the National Committee for Organizing Steel Workers, is banned from meeting with steel workers and thrown out of Johnstown by Coal & Iron Police.

John Brophy calls for the creation of a national labor party.

John L. Lewis calls off the 1919 strike on November 11th.

1920 FBI agents from Pittsburgh arrest nine miners at Coal Run, Indiana County, for communist activities. Two are considered for deportation. State Police and FBI agents later arrest an anarchist at Sagamore, Armstrong County, for possessing a large quantity of anarchistic literature.

The Indiana County Sheriff issues a proclamation against May Day celebrations. State Police are sent into the county to enforce the order.

Americanization schools are established throughout Central Pennsylvania.

On July 10th, more than 3,000 miners strike for higher wages at Broad Top, Huntingdon County.

Coal production declines in Central Pennsylvania. Mines are closed in Somerset, Indiana, and Clearfield counties.

1921

Wild Cat strikes over the mine car pushing issue spread throughout Central Pennsylvania. This was a major concern for miners because the pushing of loaded mine cars to the coal tipples caused muscle strains, ruptures, and numerous other injuries.

John L. Lewis appoints John Brophy to head the UMWA's Nationalization Research Committee.

The Ku Klux Klan begins to use Johnstown as a central base for its regional operations.

Patriotic rallies are held throughout the region.

Operators step up their attacks against the UMWA charging that miners are advocating "Sovietism" for the Central Pennsylvania coalfields.

The Red Cross makes public appeals for clothing for the unemployed.

Mother Jones speaks at Indiana County's Labor Day celebration at Mack Park in Indiana, Pennsylvania.

District 2 of the UMWA endorses the Brookwood Workers College of Katonah, NY. John Brophy is appointed to one of Brookwood's administrative committees.

1922

An African-American miner is killed during a strike and riot at the Foster mines near Edri, Indiana County, on January 24th. Two Eastern European miners are arrested and later acquitted of murder charges.

Governor Sproul meets with representatives from the Pennsylvania State Police and National Guard to formalize plans for protecting private property in the event of a mineworker strike. The Commissioner of the PA State Police circulates a secret memo to all operators requesting the names of radical miners.

April 1st, 600,000 miners participate in a nation-wide strike. Over 45,000 unionized miners in Central Pennsylvania join the walkout.

Operators carryout large scale eviction campaigns against striking miners.

The Ku Klux Klan organizes an Indiana chapter. Local newspapers report Johnstown's Klan having over 1,500 members. A small branch is also organized at Latrobe.

On July 21st, National Guard units are dispatched to assist operators in reopening their mines nonunion. Company "A", a machine gun and cavalry unit from New Castle, established a central base of operations on Bethlehem Mining Company property at Heilwood, Indiana County.

A settlement is reached on August 15th. District 2 vows to continue the strike in the nonunion areas of Somerset County.

Eighty men are killed in the Spangler mine disaster, Cambria County, on November 6th.

1923 Ellis Searles, Editor of the UMWA Journal, with the backing of John L. Lewis, writes a series of articles denouncing the union's Nationalization Committee as communist and operating without official approval from the UMWA.

A delegation of District 2 miners attends the Progressive Miners Convention in Pittsburgh in June.

Over 7,000 African-Americans migrate from the south to the Central Pennsylvania region in search of employment.

The Mayor of Johnstown orders all African-Americans with less than seven years residency out of the city in the wake of a shooting incident between police and an African-American male. Over 2,000 heed the order. The mayor is later defeated for re-election in November.

August 14th, the seventeen-month Somerset County strike ends in a defeat for the coalminers and the union.

The Klan increases its recruitment drives and attempts to downplay critical publicity by giving gifts to Protestant Churches and the needy.

1924 On January 27, thirty-two miners are killed at the Shanktown mine of the Barnes and Tucker Coal Company in Indiana County.

District 2's newspaper, The Penn Central News, is discontinued on March 19th.

Clearfield County's American Legion is recognized as having the largest per capita membership in the state.

Miners and Klansmen clash in a riot at Lilly, Cambria County. Two miners and one Klansman are killed. Over 1,000 miners lead a funeral procession for their fallen comrades in Lilly. An estimated crowd of 12,000 to 20,000 attend the funeral for the Klansman in Johnstown.

Operators begin an open shop drive. Some operators place machine guns on their

tipples and increase surveillance of miners with Coal and Iron Police. A crowd of 40,000 attend a Ku Klux Klan rally at Cookport, Indiana County.

District 2 endorses Senator Robert La Follette for President. John Brophy heads the La Follette election committee in Central Pennsylvania.

The Rochester and Pittsburgh Coal Company closes its mines and towns at Adrian, Eleanora, and Helvetia. Over 2,000 miners are out of work. The Indiana KKK hosts over 35,000 at its first picnic.

Hiram W. Evans, Imperial Wizard of the KKK, speaks to a capacity crowd at the Punxsutawney Fair.

District 2 holds week long education events called labor chautauquas throughout the region.

1925 The Adrian mine is the first of a number of the former R & P mines to be reopened by another company called the Jefferson & Indiana Coal Company (J & I). The UMWA protests these actions by holding demonstrations. Operators throughout the region step up their efforts to break the union. The mines which were formerly unionized now are reopened on a nonunion basis.

The Indiana Klan builds a large Klan Farm two miles south of Indiana borough.

Mine workers destroy the Indiana Klan Farm headquarters with an incendiary bomb.

Miners strike at the Buffalo & Susquehanna mine at Sagamore and DuBois. Bombings, demonstrations, and evictions characterize the conflict.

1926 British and U.S. anthracite miners strike. Bituminous coal companies from Central Pennsylvania furnish coal to consumers normally supplied by the British and anthracite coal companies.

Brophy announces his candidacy for the presidency of the UMWA. His effort becomes known as the "Save the Union Campaign."

On August 26th, forty-four miners are killed in an explosion at the Sample Run mine near Clymer, Indiana County.

Brophy calls for a general strike of all miners in Central Pennsylvania on November 1st. The strike fails as the majority of workers remain at their jobs.

The Socialist Party of Pennsylvania fails to poll 2% of the vote causing it to forfeit its right to exist as an official fully functioning political party.

1927 The UMWA International moves to purge miners who are members of radical/left organizations.

John L. Lewis is declared the winner of the 1926 UMWA presidential election. Brophy and the "Save the Union" group charge that the election was stolen. Brophy is purged from the union. James Mark, a Lewis loyalist, becomes president of District 2. Mine workers strike on April 1st. District 2 miners do not join the walkout until July 1st.

Miners march on the Adrian mines and are arrested for violating a court injunction that was issued in 1925.

The Clearfield Bituminous Coal Company (CBC) closes and reopens its mines nonunion. CBC evicts miners and their families. Evicted miners at Rossiter, Indiana County, continue to strike and take up residency in barracks supplied by the union.

Declaring a state of emergency, county sheriffs (throughout Central Pennsylvania) issue sweeping proclamations that amount to martial law. Coal operators impose curfews on miners living in company towns. Clearfield County's proclamation is not lifted until 1930.

Judge Langham of Indiana County issues an injunction against the Rossiter strikers that is considered to be the most drastic ever issued in the region. It banned public meetings, mine workers advertising the strike, demonstrations, and church hymn singing.

1928 The percentage of infant mortality in Central Pennsylvania is among the highest in history with 90-99 deaths per 1,000 live births.

The U.S. Senate Committee investigating conditions in the coalfields travels to Indiana County to visit Rossiter and interview Judge Langham.

Langham denies that the Rossiter injunction is a violation of free speech guaranteed by the U.S. Constitution. The Senators disagreed. Governor Fisher, an Indiana, Pennsylvania native and a former attorney for the CBC, defends Judge Langham and asserts that the Judge should have thrown all the Senators in jail. The "Save the Union Committee" calls for a general coal strike in Central and Western Pennsylvania. The strike fails as working miners refuse to leave their jobs.

Brophy resigns from the Save the Union Committee.

Hiram Wesley Evans, Imperial Wizard of the Ku Klux Klan, addresses a meeting at the Indiana Area High School on June 6th. Over 1,500 attend a Klan rally at the Indiana Klan Farm on July 4th.

Members of the "Save the Union Committee," who are associated with the U.S. Communist Party, form another mineworker union called "The National Miners Union" (NMU). Portage, Cambria County, becomes the NMU's Central Pennsylvania major base of operations.

The R & P Coal Company reorganizes its operations.

1929 Central Pennsylvania is nonunion.

General Motors sends labor agents into the region to recruit workers for its Saginaw Michigan plant.

R & P is operating under the lower 1917 wage scale.

Production declines as the region slips further into the Great Depression.

1930 Governor Pinchot promises to enact legislation that would abolish the Coal and Iron Police.

1931 The NMU wages strikes in Washington and Armstrong Counties. The UMWA attempts to persuade the NMU miners to rejoin the Lewis fold. Violence between the two organizations erupts near Pittsburgh and Washington County.

In June, over 7,000 Western Pennsylvania miners strike, and 4,000 miners rejoin the UMWA in Central Pennsylvania.

Members of the Central Pennsylvania Bituminous Coal Operators Association met and formed a labor committee for the purpose of monitoring mineworker organizing activity and providing a list of radical miners to Association members.

KNIGHTS OF LABOR LOCALS IN AMERICA'S INDUSTRIAL HERITAGE COUNTIES:

SOURCE: Johnathan Garlock, Guide to The Local Assemblies of the Knights of Labor, Westport: Greenwood Press, 1982.

NOTE: The Knights of Labor was a national labor organization that served as a forerunner to today's United Mine Workers of America. It organized workers on an industrial basis regardless of race, gender, or ethnicity. Their demands included: the establishment of an eight hour day, abolition of child and convict labor, equal pay for equal work, elimination of private banks, and the establishment of producer cooperatives. They were most successful in the 1880s.

TABLE 2: BEDFORD COUNTY:

NUMBER	COMMUNITY	DATES	OCCUPATION	PLACE SIZE
8480	Coaldale/Defiance	1886-1899	Coalminers	00
8481	Hopewell	1886-1890	Coalminers	11
6284	Hyndman	1886-1888	Mixed	01
10315	Riddleburg	1887-89		00
9518	Saxton	1887-91		00
	Wolfburg	1888	Cigar Makers	00

TABLE 3: BLAIR COUNTY:

NUMBER	COMMUNITY	DATES	OCCUPATION	PLACE SIZE
1527	Altoona	1880-82	Coalmining	56
1760-a	Altoona	1882	Painters, Car-Builders & Machinists	56
5699	Altoona	1886-93	Mixed	56
6227	Altoona	1886-90	Mixed, Store Clerks	56
7208	Altoona	1886-89	Mixed	56
7390	Altoona	1886-88	Mixed	56
7391	Altoona	1886-88	Mixed	56
7392	Altoona	1886	Mixed	56
7394	Altoona	1886	Mixed	56
7263	Bellwood	1886	Mixed	01
	Bennington Furnace	1890	Coalminers	-1
8822	Frankstown	1886-1890	Laborers	00
2046-a	Hollidaysburg	1882-83	Mixed	22

7393	Hollidaysburg	1886-88	Mixed, Iron Puddlers	22
10265	Roaring Springs	1887-88		00
1695	Tyrone	1881-84	Axe-Makers	22
5576	Tyrone	1886	Mixed	22

TABLE 4: CAMBRIA COUNTY:

NUMBER	COMMUNITY	DATES	OCCUPATION	PLACE SIZE
	Amsberry	1890	Coalminers	-0
10582-a	Ashville	1888		-0
7093-b	Blandburg	1888		00
	Blandburg	1890	Coalminers	00
8823-a	Cambria	1886-87	Mixed	11
8996-b	Cresson	1887		00
7035	Delaney/Altoona	1886-88	Coalminers	--
1523	Frugality	1891		-0
106-a	Gallitzin	1875	Coalmining	01
202	Gallitzin	1876-91	Coalminers & Laborers	01
2016	Gallitzin	1882-88	Coalminers	01
6934	Gallitzin	1886-97	Coalminers	01
7037	Hemlock/Cassandra	1889-91	Coalminers & Laborers	00
1552	Johnstown	1880-82	Coalminers	35
7249	Johnstown	1886-88	Mixed	35
9080	Johnstown	1886-88	Mixed	35
8823-b	Johnstown	1888		35
1485	Lloydville	1880-81	Coalmining	--
7093-a	Mountindale	1886-88	Coalminers	00
8473	Portage/Puritan	1886-93	Coalminers	00
2009-a	Southfork	1882-84	Coalminers & Laborers	00
7368-a	Southfork	1886-88	Coalminers	00

TABLE 5: FAYETTE COUNTY:

NUMBER	COMMUNITY	DATES	OCCUPATION	PLACE SIZE
176	Belle Vernon	1876-80	Coalmining	11
1465	Belle Vernon	1880-93	Coalmining	11
1162	Broadford/Morgan Station	1879-91	Mixed, Miners, Coke Oven Workers	10

835	Brownsville	1878-90	Coalminers & Laborers	11
1610	Brownsville	1880-85	Coalmining	11
279-a	Connelsville	1877-80	Coalmining	22
2144	Connelsville	1882-88	Coalminers	22
8438	Connelsville	1886	Mixed	22
1594-b	Connelsville	1889-90		22
220-a	Dawson	1876-80	Coalmining	00
7410	Dawson	1886-88	Mixed	00
239-a	Dunbar	1877-84	Coalmining	01
1380	Dunbar	1879-80	Coalmining	01
7450	Dunbar	1886-88	Mixed	01
1592-b	Dunbar	1890	Coalminers	01
1289	Everson/Scottdale	1879-80	Coalmining	00
8996-a	Everson/Scottdale	1886-91	Miners & Coke Drawers	00
245-c	Everson	1888-89	Coalmining	00
7675	Fair Chance	1886-87	Coalmining	01
290-a	Fair Chance	1877-80	Coalmining	01
9716	Fayette	1887-88		00
147-a	Fayette City	1875-85	Coalminers	00
8348	Layton Station	1886-88	Mixed	00
234-a	Lemont Furnace/ Frosts	1876-88	Coalmining	00
	Lemont Furnace	1890	Coalminers	00
3587-a	Little Redstone	1885	Coalminers	00
9662	Mill Run	1887-88		00
8705	Mountain View	1886	Mixed	00
7692	Moyer	1886-87	Mixed	00
	Moyer	1890	Coalminers	00
9706-a	New Haven/Morrel	1887-89	Coke Workers	01
7538	Owensdale	1886	Miners	00
8741	Owensdale	1886	Miners & Coke Drawers	00
	Percy	1890	Coalminers	--
856-a	Pine Creek	1878-80		--
281-b	Uniontown	1880	Coalmining	22
501	Uniontown	1878-91	Coalminers	22
9468	Uniontown	1887-89	Cigar-Makers	22
	Uniontown	1890	Plasterers/Mixers	22
9357-b	Vanderbilt	1887		00
9686	Waltersburgh	1887-88		00
6373	West Overton	1886-87	Miners & Coke Drawers	00
9513	Wheeler	1887-88		00

TABLE 6: HUNTINGTON COUNTY:

NUMBER	COMMUNITY	DATES	OCCUPATION	PLACE SIZE
8524-a	Broadtop City	1886-89	Coalminers	00
3320	Coalmont	1886-91	Coalminers	00
8525	Dudley	1886-89	Coalminers	00
1922	Huntingdon	1882-83	Mixed	22
8031	Huntingdon	1886-88	Mixed	22
10932	Pennsylvania Furnace	1887-88	Iron Miners & Iron Furnace Workers	00
1490	Robertsdale	1880	Coalmining	00
8524-b	Robertsdale/ Huntington	1887-88	Coalminers & Laborers	--
1496-b	Saltsburg	1886	Miners & Farmers	00
7369	Spruce Creek	1886-88	Mixed	00

TABLE 7: INDIANA COUNTY:

NUMBER	COMMUNITY	DATES	OCCUPATION	PLACE SIZE
2102	Black Lick	1882-85	Mixers	00
9585-a	Black Lick	1887		00
9725	Black Lick	1887-1901	Miners & Brickyard Workers	00
9925	Black Lick	1887-96		00
10238	Blairsville	1887-88		12
8145	Cherry Tree	1886-88	Mixed	00
1503-b	Cookport	1890		-0
3239	Foxes Run/Black Lick	1884-91	Mixed	00
	Glen Campbell	1890	Coal Miners	--
994	Hillsdale	1888-89		00
10697-b	Hillsdale	1891		00
3601	Homer City	1885-87	Mixed	00
2043	Indiana	1882-94	Mixed	11
9750	Saltsburg	1887-88		01
8526	Smithport	1886	Mixed	00

TABLE 8: SOMERSET COUNTY:

NUMBER	COMMUNITY	DATES	OCCUPATION	PLACE SIZE
10859	Boynton/Elk Lick	1887-92		00
8786	Garrett	1886	Coalminers & Laborers	00
1731	Keystone/Meyersdale	1882-88	Coalminers	00
1388	Meyersdale	1879-82	Coalminers	11
1607-a	Meyersdale	1880	Coalminers	11
2061	Meyersdale	1882-88	Coalminers	11
1469	Salisbury/Elk Lick	1880-91	Coalminers	00

TABLE 9: WESTMORELAND COUNTY:

NUMBER	COMMUNITY	DATES	OCCUPATION	PLACE SIZE
9697-a	Branch Junction	1887-88		00
	Branch Junction	1890	Quarrymen	00
6533	Cokeville	1886-91	Mixed	00
8601	Derry Station	1886-88	Mixed	01
6905	Greensburg	1886-91	Coalminers	22
10590-a	Harrison City/ Claridge	1887-90	Coalminers	00
143-a	Irwin/Larimer	1875-91	Coalminers & Laborers	11
10295	Irwin	1887-88	Coalminers & Laborers	11
10327	Irwin/Larimer	1887-1900	Coalminers & Laborers	11
10590-b	Larimer	1888	Coalminers & Laborers	11
1829-b	Jeanette	1890-91	Glass House Employees/ Laborers	-2
660-b	Jeanette	1894-95	Glass House Employees/ Workers	
8266	Larimer Station/ Irwin	1886-89	Coalminers	00
273	Latrobe	1877-91	Coalmining	12
279-b	Latrobe	1880-90	Coalmining	12
2863	Latrobe	1883-84	Mixed	12
2864	Latrobe	1883-84	Coalminers	12
8486	Latrobe	1886-92	Coalminers	12
8919	Latrobe	1886-88	Miners & Coke Drawers	12

	Latrobe	1890	Coalminers	12
826	Mammoth	1888		00
2942	Manor Station	1883-85	Coalminers	00
10416	Manor Station/Irwin	1887-88	Coalminers & Laborers	00
297	Mount Pleasant	1877-88	Coalminers	12
6806	Mount Pleasant	1886-88	Mixed	12
8668-a	Mount Pleasant	1886	Mixed	12
10676	Mount Pleasant	1887-88		12
1025	Mount Vernon Mines	1879-81	Coalmining	--
8633	New Derry	1886-88	Coalminers	00
1425	Penns Station	1880	Coalmining	00
8986-a	Perryville	1886-88	Firebrickmen Miners	00
8745-b	Pleasant Unity	1888-91		00
200	Ridge View	1876-80	Coalmining	00
10815	Ruffdales/Tarrs	1887-89		00
8986-b	Salina	1888-89		00
170	Scottdale	1876-80	Coalmining	12
6176	Scottdale	1886	Mixed	12
7620	Scottdale	1886-88	Coalminers	12
8764	Scottdale	1886-88	Mixed	12
8987	Scottdale	1886	Miners & Coke Drawers	12
9585-b	Scottdale	1888	Coalminers	12
245-d	Scottdale	1890-91	Railroad Workers	12
142	Shaners Station Yogohony	1875-84	Coalminers	00
6251	Shaners Station	1886-93	Coalminers	00
152-a	Smithton	1876-80	Coalminers	00
1693	Smithton	1881-84	Coalminers	00
7577	Smithton	1886-88	Coalminers	00
	Smithton	1890	Coalminers	00
8668-b	Stauffer	1887-91		00
2385	St. Clair Station Brandenville	1882-90	Coalminers	00
245-a	Stoners/ Scottdale	1877-85	Coalminers	12
2941	Stonerville	1883-89	Mixed, Coalminers	00
8997	Stonerville	1886	Miners & Coke Drawers	00
1487	Suters/Scott Haven	1880-84	Coalmining	00
139	Sutersville	1875-80	Coalmining	00
5760	Sutersville	1886-89	Coalminers	00

5977	Tarrs	1886-90	Miners & Cokers	00
2890	United/Mutual	1883-85	Mixed, Laborers	00
8745-a	United	1886	Coalminers	00
8701	Weavers Old Stand	1886-88	Mixed	00
148	Webster	1875-89	Coalminers & Laborers	00
138	West Newton	1875-80	Coalmining	11
1725-a	West Newton	1881-84	Coalminers	11
2326	West Newton	1882	Coalminers	11
6807	West Newton	1886-88	Coalminers	11
8983	Youngstown	1886	Mixed	00
	Youngstown	1890	Coalminers	00

TABLE 10: UNASSIGNED COUNTY:

NUMBER	COMMUNITY	DATES	OCCUPATION	PLACE SIZE
4209	Buena Vista	1885-88	Coalminers	
	Eleanora	1890	Coalminers	
2783-b	Glasgow	1891		
1875-c	Lilly	1886-91		
1047	New Kensington	1894	Glass House Employees/ Laborers	
104-a	Paintersville	1875-80		

POPULATION OF CENTRAL PENNSYLVANIA'S "AMERICA'S INDUSTRIAL HERITAGE PROJECT

COUNTIES" BY RACE: 1910, 1920, AND 1930:

TABLE 11: POPULATIONS BY COUNTY FOR 1910-1930:

COUNTY/DESCRIPTION	1910	1920	1930
CAMBRIA			
Native White	120,775	156,779	171,879
African American	640	2,492	2,085
TOTAL POPULATION	166,131	197,839	203,146
BEDFORD			
Native White	37,606	38,277	36,630
African American	365	354	280
TOTAL POPULATION	38,879	38,277	37,309
BLAIR			
Native White	98,893	118,373	130,978
African American	786	1,361	1,268
TOTAL POPULATION	108,858	128,334	139,840
FAYETTE			
Native White	114,139	143,518	162,075
African American	5,852	6,280	10,586
TOTAL POPULATION	167,499	188,104	198,542
FULTON			
Native White	9,574	9,513	9,115
African American	35	86	101
TOTAL POPULATION	9,703	9,617	9,213
INDIANA			
Native White	53,071	66,647	66,965
African American	183	439	747
TOTAL POPULATION	66,210	80,910	75,395
HUNTINGTON			
Native White	35,748	37,080	37,093
African American	305	717	930
TOTAL POPULATION	38,304	39,848	39,021
SOMERSET			
Native White	56,075	69,217	72,299
African American	246	549	245
TOTAL POPULATION	67,717	82,112	80,764
WESTMORELAND			
Native White	167,311	212,715	244,018
African American	2,641	4,240	6,410
TOTAL POPULATION	231,304	273,568	294,995

Source: 14th & 15th Population Census of the United States.

TABLE 12: COALMINE OPERATIVES IN PENNSYLVANIA, 1930:

DESCRIPTION	TOTAL
Native White	146,648
Foreign-Born White	113,350
African-American	7,574
Other	82
TOTAL IN PENNSYLVANIA	267,654

Source: 15th Population Census of the United States Male/Females in Selected Occupations

TABLE 13: EMPLOYMENT OF AFRICAN-AMERICANS (BY STATE) IN THE BITUMINOUS COAL INDUSTRY FOR 1900-1930:

STATE	1900	1910	1920	1930
PERCENTAGE (%) OF AFRICAN-AMERICANS				
SOUTHERN APPALACHIAN STATES				
Alabama	54.4	53.8	53.8	53.2
Kentucky	23.7	21.2	16.7	13.5
Tennessee	28.4	14.5	7.5	6.6
Virginia	35.9	23.6	19.8	12.0
West Virginia	22.2	20.5	20.3	22.6
NORTHERN STATES				
Illinois	3.6	2.6	2.7	2.3
Indiana	3.2	2.0	2.1	2.0
Iowa	9.6	11.4	8.6	6.8
Ohio	2.3	2.5	2.9	4.6
Pennsylvania	.8	.6	.1	2.8

From: U.S. Census & Lewis, Black Coal Miners in America, P-191.

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Jim Uiliciny, "Coke Works at Coral, Pa." (c. 1978).

COMMODORE, PA.:

Paul Gill, "Discussion of Commodore and Its Sewage Treatment Plant." (No Date).

Andrew Hudzick, "Working Conditions in the Commodore Mine." (June 16, 1978).

Mrs. Hughes, "Life Experiences of a Doctor's Wife in a Coal Mining Town." (October 9, 1978).

A.E. "Shorty" Long, "Commodore Mining Town." (October 13, 1978).

Alvie Lydick, "Opening of the Commodore Mine in 1920." (October 16, 1978).

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Pete Calhoun, "History of the Ernest Coal Cleaning Plant." (September 8, 1978).

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Joe and Helen Yesolivich, "Ernest Photo Identification." (November 20, 1977).

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Luther Peterson, "The Miners at 5 Points." (July 6, 1979).

Wilbur Shaffer, "Mayor of 5 Points." (February 19, 1979).

ISELIN, PA.:

Victor Fello, "Life in Iselin." (March 7, 1978).

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John Cippolini, "Lucerne Photo Identification and Discussion of the Lucerne Power Plant." (March 29, 1979).

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Blair Cummins, "Laying Overhead Transmission Lines for Lucerne Power Plant." (No Date).

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Roy Smith, "McIntyre Tipple, (How It Worked)." (June 27, 1977).

SAGAMORE, PA.:

Roy Blystone, "Life in Sagamore." (January 13, 1978).

Blystone, 2nd Interview "Mining Lore." (April 9, 1979).

Norman Coy, "Mining Experiences." (December 13, 1977).

Coy, 2nd Interview "Growing Up in Sagamore." (December 28, 1977).

Coy, 3rd Interview "Discussion of the Black hand Society." (March 1, 1978).

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Roy Orr, "Sagamore and the Black Diamond Mine." (January 24, 1978).

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Ed Murphy, "Discussion of Coke Making." (September 26, 1979).

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Mrs. Gilbert Remy, "Discussion of Gilbert Remy's Career with the Rochester & Pittsburgh Coal Company." (September 29, 1978).

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Victor Fello, Caroline Kaminski, and Merle Craig, Taken from Three Master Tapes August, 1978. Original Interviews – Spring, 1978.

Archie George, "Early Life – Mining Accidents." (December 6, 1977).

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Hale McQuilken, "Coal Mining-General." (1979).

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Lucia Christy, "Immigrating from Italy." (August 22, 1979).

Caroline Kaminski, "Immigrating from Poland." (April 11, 1978).

Lawrence Redding, "Discussion of Italian Immigrants and Mining Experiences." (May 13, 1977).

Lawrence Redding, 2nd Interview "Italians in Indiana, Pa. Mines." (September 15, 1978).

Butch Tortella, "Immigration-General." (June 5, 1978).

CHARLES POTTER COLLECTION/INTERVIEWS:

CONDUCTED BY JAMES DOUGHERTY, EILEEN COOPER AND IRWIN MARCUS

Potter was a former President and Chairman of the Board at Rochester & Pittsburgh Coal Company.

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March 8, 1989. "Discussion of World War II."

March 15, 1989. "Discussion of John L. Lewis, Labor-Management Relations, and War Labor

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- May 23, 1989. "Working Experiences as a Rochester & Pittsburgh Employee, International Labor Organization and Coal Development."
- May 31, 1989. "Discussion of Continuous Miners, The Kent Mines, Mechanization of Coal Mining, and UMWA after World War II."
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SPECIAL COLLECTIONS AT IUP:

The Special Collections and Archives at IUP's Stapleton Library currently houses the archives of Districts 2, 3, and 5 of the United Mine Workers of America, Rochester and Pittsburgh Coal Company, the Pittsburgh Chapter of the Coal Mining Institute of America, the International Brotherhood of Electrical Workers Local 459, United Steel Workers of America Local 1397 (Homestead), and the Tri State Conference on Steel. Special Collections also serves as the archives for AIHP.

The District 2 collection, one of the most complete groups of UMWA district materials in existence, dates from 1899. These early materials comprise wage agreements, convention reports, financial data, and other printed items.

The papers of John Brophy, president of District 2 from 1917 to 1927, contribute insights into the coal strikes of 1919 and 1922, the beginnings of the conflict between Brophy and John L. Lewis, and the development of Brophy's plan for nationalization of the mining industry.

The correspondence of James Mark, who served for half a century as vice president and

later as president of District 2, highlights the implementation of mine mechanization, miners' Health and Welfare programs, and Black Lung and mine safety legislation on both a state and federal level.

The remainder of the collection is composed of correspondence files of International Board other legal and international documentation relating to District 2.

The District 5 collection comprises several important groups of materials, including president's and secretary-treasurers' files dating from 1896 through 1984, grievance cases from all of the local unions within the district, election and convention materials and publications, correspondence of the Special Membership Committee, Welfare and Retirement Fund records, and Compensation Department case files.

This collection also contains significant amounts of material pertaining to legal cases involving District 5 of the UMWA and several of its miners and the Coal Miners' Political Action Committee (COMPAC).

The bulk of this district's papers are relatively recent in scope (1950-1985) due to several relocations of its office. The earlier materials, however, are particularly rich in documentation of the dual union action in the district, which plagued District 5 for more than two decades during the early part of the twentieth century, and the 1926 strike in the Pittsburgh region.

District 3 of the UMWA was ultimately absorbed by District 5. The District's materials are limited to a small amount of correspondence, contract agreements and financial records, and Workers' Compensation case files. Of some interest are the records of several now-defunct coal companies from around the Pittsburgh area.

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Appalachian Studies Association, Center for Appalachian Studies and Services, P. O. Box 70556, East Tennessee State University, Johnson City, TN 37614; 615/929-5348. Newsletter: Appalink.

Appalshop, 306 Madison Street, Whitesburg, KY 41858; 606/633-0108. Newsletter: Appalshop Notes.

Brown Lung Association, 202 Oak Street, Woodville Heights, Greenville, SC 29611;

813/269-8048.

Chicago Area Black Lung Association, 4409 N. Broadway, Chicago, ILL 60640; 312/271-7377. Newsletter: The Black Lung Newsletter.

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| AUTHOR | Britton, Scott G., 1954- |
| TITLE | Practical coal mine management / Scott G. Britton |
| PUBLICATION | New York : Wiley, c1981 |
| ITEM 19 | |
| AUTHOR | Goplerud, C. Peter |
| TITLE | Coal development and use : the legal constraints and incentives / C. Peter Goplerud, III |
| PUBLICATION | Lexington, Mass. : Lexington Books, c1983 |

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| ITEM 20 | DESCRIPTION |
| AUTHOR | Fairless, Benjamin F., 1890-1962 |
| TITLE | It could happen only in the U.S.; a coal miner's son describes his remarkable career that led from Pigeon Run, Ohio to the summit of American Industry [n.p., c1956] |
| PUBLICATION | |
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| ITEM 21 | DESCRIPTION |
| AUTHOR | Miller, Benjamin Leroy, 1874-1944 |
| TITLE | Coal resources of the Americas |
| PUBLICATION | Washington : Govt. Print. Off., 1923 |
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| ITEM 22 | DESCRIPTION |
| AUTHOR | Gillespie, Angus K., 1942- |
| TITLE | Folklorist of the coal fields : George Korson's life and work / Angus K. Gillespie ; foreword by Samuel P. Bayard |
| PUBLICATION | University Park : Pennsylvania State University Press, c1980 |
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| ITEM 23 | DESCRIPTION |
| AUTHOR | Connolly, Mary Theresa |
| TITLE | "The Gravity"; history of the Pennsylvania Coal Company Railroad, 1850-1885, by Mary Theresa "T. C." Connolly |
| PUBLICATION | Olyphant, Pa. : Barrett Pub. Co. [1972] |
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| ITEM 24 | DESCRIPTION |
| AUTHOR | Wakefield, Manville B. |
| TITLE 25 | Coal boats to tidewater; the story of the Delaware & Hudson Canal, by Manville B. Wakefield. Foreword by Carl Carmer |
| PUBLICATION | [South Fallsburg, N.Y. : Printed by Steingart Associates, 1965] |
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| ITEM 25 | DESCRIPTION |
| AUTHOR | Witt, Matt |
| TITLE | In our blood : four coal mining families / by Matt Witt ; photos. by Earl Dotter |
| PUBLICATION | 1st ed. Washington : Highlander Research and Education Center, c1979 |
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| ITEM 26 | DESCRIPTION |
| AUTHOR | [McCabe, James Dabney] 1842-1883 |
| TITLE | History of the Grange movement : or, the farmer's war against monopolies: being a full and authentic account of the struggles of the American farmers against the extortions of the railroad companies. With a history of the rise and |

progress of the order of Patrons of Husbandry, its objects, present condition and prospects. To which is added sketches of the leading Grangers. / by Edward Winslow Martin [pseu.] ... with 60 fine engravings and portraits Philadelphia, Pa. ; Chicago, Ill. ; St. Louis, Mo. : National publishing co., [c1873]

ITEM 27	DESCRIPTION
AUTHOR	Cybulski, Waclaw B.
TITLE	Coal dust explosions and their suppression = Wybuchy pylu weglowego i ich zwalczanie / Waclaw Cybulski
PUBLICATION	Warsaw : Foreign Scientific Publications Dept., National Center for Scientific, Technical and Economic Information ; Springfield, Va. : available from NTIS, 1975.

ITEM 28	DESCRIPTION
AUTHOR	Environmental Studies Board. Study Committee on the Potential for Rehabilitating Lands Surface Mined for Coal in the Western United States
TITLE	Rehabilitation potential of western coal lands; a report to the Energy Policy Project of the Ford Foundation
PUBLICATION	Cambridge, Mass., Ballinger Pub. Co. [1974]

ITEM 29	DESCRIPTION
AUTHOR	Kohl, William R.
TITLE	Summary map of mined areas and areas of potential coal mining, southwestern Pennsylvania [map /] By William R. Kohl and Reginald P. Briggs.
PUBLICATION	Reston, Va. : U.S. Geological Survey, 1976

ITEM 30	DESCRIPTION
AUTHOR	Davies, William Edward, 1917-
TITLE	Map of coal-mining features, Allegheny County, Pennsylvania / by William E. Davies, John S. Pomeroy, and William R. Kohl
PUBLICATION	[Reston, Va.] : U.S. Geological Survey, 1976

ITEM 31	DESCRIPTION
AUTHOR	Fung, R., ed.
TITLE	Surface coal mining technology : engineering and environmental aspects / edited by R. Fung
PUBLICATION	Park Ridge, N.J. : Noyes Data Corp., 1981

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| ITEM 32 | DESCRIPTION |
| AUTHOR | Great Britain. National Coal Board |
| TITLE | Coal mining in Poland; report of a visit to Poland in September 1958 by a Technical Mission of the National Coal Board |
| PUBLICATION | London [1959?] |
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| ITEM 33 | DESCRIPTION |
| AUTHOR | Statham, Ira Cyril Frank, 1886- |
| TITLE | Coal-mining |
| PUBLICATION | New York : Philosophical Library [1956] |
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| ITEM 34 | DESCRIPTION |
| AUTHOR | Roberts, Peter, 1859- |
| TITLE | Anthracite coal communities |
| PUBLICATION | New York, The Macmillan company, 1904 |
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| ITEM 35 | DESCRIPTION |
| AUTHOR | Poliniak, Louis |
| TITLE | When coal was king : mining Pennsylvania's anthracite; early coal mining in picture and story in the land of the Mollie Maguires. / Louis Poliniak |
| PUBLICATION | Lebanon, Pa. : Applied Arts Publishers, 1970 |
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| ITEM 36 | DESCRIPTION |
| AUTHOR | Phillipps, G. Jenkin |
| TITLE | System of mining coal and metalliferous veins fully explained; with a compendium of general principles on that science. Productive, consumption and incidental statistics of coal: together with geological and mineralogical observations. Illustrated by maps, sections, &c. Intended principally for the use of mining engineers and amateurs. By G. Jenkin Phillipps |
| PUBLICATION | Philadelphia, The author, 1858 |
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| ITEM 37 | DESCRIPTION |
| AUTHOR | Pennsylvania. Dept. of Mines and Mineral Industries |
| TITLE | History of Pennsylvania bituminous coal |
| PUBLICATION | [Harrisburg] 1964 |
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| ITEM 38 | DESCRIPTION |
| AUTHOR | Harvey, Katherine A., ed. |
| TITLE | The Lonaconing journals : the founding of a coal and iron community, |

1837-1840 / edited by Katherine A. Harvey
 PUBLICATION Philadelphia : American Philosophical Society, 1977

ITEM 39 DESCRIPTION
 AUTHOR Korson, George Gershon, 1899-
 TITLE Black land; the way of life in the coal fields, by George Korson
 PUBLICATION Evanston, Ill., Row, Peterson and co., [c1941]

ITEM 40 DESCRIPTION
 AUTHOR Greene, Homer, 1853-1940
 TITLE Coal and the coal mines, by Homer Greene. With illustrations from drawings
 by the author
 PUBLICATION Boston, New York : Houghton, Mifflin and Company, 1889

ITEM 41 DESCRIPTION
 AUTHOR National Research Council
 TITLE Toward safer underground coal mines / Committee on Underground Coal
 Mine Safety, Commission on Engineering and Technical Systems, National
 Research Council
 PUBLICATION Washington : National Academy Press, 1982

ITEM 42 DESCRIPTION
 AUTHOR International Labour Office
 TITLE Prevention of accidents due to explosions underground in coal mines
 PUBLICATION Geneva [1974]

ITEM 43 DESCRIPTION
 AUTHOR Wieck, Edward A.
 TITLE Preventing fatal explosions in coal mines; a study of recent major disasters in
 the United States as accompaniments of technological change, by Edward A.
 Wieck
 PUBLICATION New York, Russell Sage foundation, 1942

ITEM 44 DESCRIPTION
 AUTHOR Peng, Syd S., 1939-
 TITLE Coal mine ground control / Syd S. Peng
 PUBLICATION New York : Wiley, c1978

ITEM 45 DESCRIPTION

AUTHOR Nagy, John
 TITLE Control of the dust explosion hazard on coal mine shuttle-car runways / by John Nagy, Edward M. Kawenski, and Edward A. Barrett
 PUBLICATION [Washington, D.C.] : U.S. Dept. of Interior, Bureau of Mines, [1970]

ITEM 46 DESCRIPTION
 AUTHOR Mason, W. A.
 TITLE Electrical hazards in underground bituminous coal mines / by W. A. Mason
 PUBLICATION [Washington] : Mining Enforcement and Safety Administration, [1975]

ITEM 47 DESCRIPTION
 AUTHOR McLellan, Russell R.
 TITLE Analysis of fatalities related to scoops and tractors in underground bituminous coal mines, 1971-1973 / by R. R. McLellan and R. A. Speirer.
 PUBLICATION [Washington] : Mining Enforcement and Safety Administration, [1975]

ITEM 48 DESCRIPTION
 AUTHOR Coal Age
 TITLE Practical kinks for coal mining men
 PUBLICATION New York, n.d.

ITEM 49 DESCRIPTION
 AUTHOR Bone, William Arthur, 1871-
 TITLE Coal and its scientific uses, by William A. Bone
 PUBLICATION London, New York [etc.] : Longmans, Green and Co., 1918.

ITEM 50 DESCRIPTION
 AUTHOR Symposium on Underground Mining (2nd : 1976 : Louisville, Ky.)
 TITLE Papers presented before the second Symposium on Underground Mining : NCA/BCR Coal Conference and Expo III, October 19-20-21, 1976, Kentucky Fair and Exposition Center, Louisville, Kentucky / sponsored by National Coal Association [and] Bituminous Coal Research, Inc.
 PUBLICATION [Washington, D. C. : National Coal Association, 1976].

ITEM 51 DESCRIPTION
 AUTHOR Schlick, Donald P.
 TITLE Coal mine dust standards of the United States and other countries, by Donald P. Schlick, G. G. Morgis, and David B. Booker
 PUBLICATION [Washington] U.S. Bureau of Mines; [for sale by the Supt. of Docs., U.S. Govt. Print. Off., 1971]

ITEM 52	DESCRIPTION
AUTHOR	National Research Council
TITLE	Surface mining : soil, coal, and society : a report / prepared by the Committee on Soil as a Resource in Relation to Surface Mining for Coal, Board on Mineral and Energy Resources, Commission on Natural Resources, National Research Council
PUBLICATION	Washington, D.C. : National Academy Press, 1981.

ITEM 53	DESCRIPTION
AUTHOR	Collins, Hubert Edwin, 1872-
TITLE	Steam turbines : a book of instruction for the adjustment and operation of the principal types of this class of prime mover / compiled and written by Hubert E. Collins
PUBLICATION	1st ed. New York : McGraw-Hill, c1909

ITEM 54	DESCRIPTION
AUTHOR	Collins, Hubert Edwin, 1872-
TITLE	Boilers ; Pipes and piping ; Pumps / compiled and written by Hubert E. Collins
PUBLICATION	1st ed. New York : McGraw-Hill Book Co., c1908.

ITEM 55	DESCRIPTION
AUTHOR	Bolten, J. G., ed.
TITLE	A case study of beryllium emissions from a coal-fired power plant / J.G. Bolten ... [et al.]
PUBLICATION	Santa Monica, CA : Rand, [1986]

ITEM 56	DESCRIPTION
AUTHOR	Lyon, William S.
TITLE	Trace element measurements at the coal-fired steam plant / W. S. Lyon ; senior project staff, Newell Bolton ... [et al.]
PUBLICATION	Cleveland : CRC Press, c1977

ITEM 57	DESCRIPTION
AUTHOR	Hoffman, Richards H.
TITLE	The distribution of bituminous coal mining contributing to the acidity of the Two Lick Creek Watershed of Indiana County, Pennsylvania : a microgeographic study / by Richards H. Hoffman.
PUBLICATION	1966

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| ITEM 58 | DESCRIPTION |
| AUTHOR | George, Harry Glen |
| TITLE | Chemical analysis of a stream before and after coal mine pollution and its effect on the northern creek chub / by Harry Glen George |
| PUBLICATION | 1962 |
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| ITEM 59 | DESCRIPTION |
| AUTHOR | Saint Francis College, Loretto, Pa. |
| TITLE | Bituminous coal mining lectures, presented at the 1948 summer session of the school for mining men at Saint Francis College, Loretto, Pennsylvania. |
| PUBLICATION | Altoona, Pa., Central Pennsylvania Coal Producers' Association [1949] |
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| ITEM 60 | DESCRIPTION |
| AUTHOR | Graebner, William |
| TITLE | Coal-mining safety in the progressive period : the political economy of reform / William Graebner |
| PUBLICATION | Lexington : Published for the Organization of American Historians [by] The University Press of Kentucky, c1976 |
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| ITEM 61 | DESCRIPTION |
| AUTHOR | Smith, Walter S. |
| TITLE | Atmospheric emissions from coal combustion; an inventory guide, by W. S. Smith and C. W. Gruber |
| PUBLICATION | Cincinnati, U.S. Division of Air Pollution, 1966 |
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| ITEM 62 | DESCRIPTION |
| AUTHOR | Arber, Edward Alexander Newell, 1870-1918 |
| TITLE | The natural history of coal |
| PUBLICATION | Cambridge : University press, 1911 |
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| ITEM 63 | DESCRIPTION |
| AUTHOR | Seltzer, Curtis |
| TITLE | Fire in the hole : miners and managers in the American coal industry / Curtis Seltzer |
| PUBLICATION | Lexington, Ky. : University Press of Kentucky, c1985 |
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| ITEM 64 | DESCRIPTION |
| AUTHOR | Semple, Wesley Smith |

TITLE The changing land use of coal strip mine land in four southwestern
 Pennsylvania counties : a geographic study / by Wesley Smith Semple
 PUBLICATION 1969

ITEM 65 DESCRIPTION
 AUTHOR NUS Corporation. Cyrus Wm. Rice Division
 TITLE The effects of various gas atmospheres on the oxidation of coal mine pyrites
 PUBLICATION Washington : [Environmental Protection Agency, Water Quality Office]; for
 sale by the Supt. of Docs., U.S. Govt. Print. Off., 1971

ITEM 66 DESCRIPTION
 AUTHOR Samuel M. Cassidy, editor
 TITLE Elements of practical coal mining
 PUBLICATION New York, Society of Mining Engineers of the American Institute of Mining,
 Metallurgical, and Petroleum Engineers, 1973

ITEM 67 DESCRIPTION
 AUTHOR International Labour Office
 TITLE Safety and health in coal mines
 PUBLICATION Geneva : International Labour Office, 1986

ITEM 68 DESCRIPTION
 AUTHOR Humphrey, Hiram Brown, 1895-
 TITLE Historical summary of coal-mine explosions in the United States, 1810 [i.e.
 1910]-1958
 PUBLICATION Washington : U.S. Govt. Print. Off., 1960

ITEM 69 DESCRIPTION
 AUTHOR Gluskoter, H. J. [et al.]
 TITLE trace elements in coal [microform :] occurrence and distribution / by H. J.
 Gluskoter [et al.]
 PUBLICATION Urbana : Illinois State Geological Survey, 1977.

ITEM 70 DESCRIPTION
 AUTHOR Richmond, James K.
 TITLE Effect of rock dust on explosibility of coal dust [microform /] by J. K.
 Richmond, I. Liebman, and L. F. Miller
 PUBLICATION Pittsburgh : U.S. Dept. of the Interior, Bureau of Mines, 1975

- | ITEM 71 | DESCRIPTION |
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| AUTHOR | National Institute for Occupational Safety and Health |
| TITLE | Occupational exposure to coal tar products. [microform.] |
| PUBLICATION | [Cincinnati, Ohio] : Dept. of Health, Education, and Welfare, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health ; Washington : for sale by the Supt. of Docs., U.S. Govt. Print Off., 1977 |
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| ITEM 72 | DESCRIPTION |
| AUTHOR | Tatsch, J. H. |
| TITLE | Coal deposits : origin, evolution, and present characteristics: an analysis of the present coal deposits in terms of the geometrical, mechanical, thermal, and chemical aspects of the Earth's behavior during the past 4.6 billion years / J. H. Tatsch. |
| PUBLICATION | Sudbury, Mass. : Tatsch Associates, 1980. |
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| ITEM 73 | DESCRIPTION |
| AUTHOR | Gaines, Linda |
| TITLE | TOSCA, the total social cost of coal and nuclear power / Linda Gaines, R. Stephen Berry, and Thomas Veach Long II. |
| PUBLICATION | Cambridge, Mass. : Ballinger Pub. Co., c1979 |
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| ITEM 74 | DESCRIPTION |
| AUTHOR | Leonard, Joseph W., ed. |
| TITLE | Coal preparation |
| PUBLICATION | 4th ed. New York, American Institute of Mining, Metallurgical, and Petroleum Engineers, c1979 |
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| ITEM 75 | DESCRIPTION |
| AUTHOR | Calzonetti, Frank J. |
| TITLE | Finding a place for energy : siting coal conversion facilities / Frank J. Calzonetti with Mark S. Eckert |
| PUBLICATION | Washington, D.C. : Association of American Geographers, 1981 |
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| ITEM 76 | DESCRIPTION |
| AUTHOR | Suffern, Arthur Elliott, 1878-1959 |
| TITLE | Conciliation and arbitration in the coal industry of America / by Arthur E. Suffern |
| PUBLICATION | New York : AMS Press, 1976 |

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| ITEM 77 | |
| AUTHOR | Wen, C. Y., and E. Stanley Lee, eds. |
| TITLE | Coal conversion technology / edited by C. Y. Wen, E. Stanley Lee ; contributors, S. Dutta [et al.] |
| PUBLICATION | Reading, Mass. : Addison-Wesley Pub. Co., 1979 |
| ITEM 78 | |
| AUTHOR | Ezra, Derek, Sir |
| TITLE | Coal and energy : the need to exploit the world's most abundant fossil fuel / Derek Ezra |
| PUBLICATION | London : E. Benn ; Toronto : distributed by General Pub. Co., 1978 |
| ITEM 79 | |
| AUTHOR | Hawley, Mones E., ed. |
| TITLE | Coal |
| PUBLICATION | Stroudsburg, Pa. : Dowden, Hutchinson & Ross ; [New York] : distributed by Halsted Press, c1976- |
| ITEM 80 | |
| AUTHOR | Rowe, James E., ed. |
| TITLE | Coal surface mining, impacts of reclamation/ edited by James E. Rowe |
| PUBLICATION | Boulder, Colo. : Westview Press, 1979 |
| ITEM 81 | |
| AUTHOR | Rosenbaum, Walter A. |
| TITLE | Coal and crisis : the political dilemmas of energy management / Walter A. Rosenbaum |
| PUBLICATION | New York : Praeger, 1978 |
| ITEM 82 | |
| AUTHOR | Breslin, John A. |
| TITLE | Dust-control studies using scale models of coal mine entries and mining machines / by John A. Breslin and Anthony J. Strazisar |
| PUBLICATION | Washington : Dept. of the Interior, Bureau of Mines, 1976 |
| ITEM 83 | |
| AUTHOR | Karr, Jr., Clarence, ed. |
| TITLE | Analytical methods for coal and coal products / edited by Clarence Karr, Jr. |
| PUBLICATION | New York : Academic Press, 1978-1979 |

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| ITEM 84 | |
| AUTHOR | Rowe, James E., ed. |
| TITLE | Coal surface mining, impacts of reclamation / edited by James E. Rowe |
| PUBLICATION | Boulder, Colo. : Westview Press, 1979 |
| ITEM 85 | |
| AUTHOR | Ezra, Derek, Sir |
| TITLE | Coal and energy : the need to exploit the world's most abundant fossil fuel / Derek Ezra |
| PUBLICATION | New York : Wiley, 1978 |
| ITEM 86 | |
| AUTHOR | National Coal Policy Project |
| TITLE | Where we agree : report of the National Coal Policy Project / edited by Francis X. Murray |
| PUBLICATION | Boulder, Colo. : Westview Press, 1978 |
| ITEM 87 | |
| AUTHOR | Beasley, Jerry L., ed. |
| TITLE | Coal and rural America / Jerry L. Beasley, editor; Edward A. Marotta, technical editor |
| PUBLICATION | Waynesburg : Waynesburg College [pref. 1978] |
| ITEM 88 | |
| AUTHOR | United Nations Economic Commission for Europe |
| TITLE | Coal, 1985 and beyond : a perspective study of the coal industry in Europe and North America / prepared for the Coal Committee of the United Nations Economic Commission for Europe |
| PUBLICATION | Oxford ; New York : Published for the United Nations by Pergamon Press, 1978 |
| ITEM 89 | |
| AUTHOR | World Coal Study |
| TITLE | Coal--bridge to the future / project director, Carroll L. Wilson |
| PUBLICATION | Cambridge, Mass. : Ballinger Pub. Co., [1980] |
| ITEM 90 | |
| AUTHOR | Harter, Walter L. |
| TITLE | Coal : the rock that burns / Walter Harter |
| PUBLICATION | 1st ed. Nashville : Elsevier/Nelson Books, c1979 |

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| ITEM 91 | |
| AUTHOR | Smoot, Douglas L., and David T. Pratt, eds. |
| TITLE | Pulverized-coal combustion and gasification : theory and applications for continuous flow processes / edited by L. Douglas Smoot and David T. Pratt |
| PUBLICATION | New York : Plenum Press, c1979 |
| ITEM 92 | |
| AUTHOR | Miller, Saunders |
| TITLE | The economics of nuclear and coal power / Saunders Miller ; assisted by Craig Severance |
| PUBLICATION | New York : Praeger, 1976 |
| ITEM 93 | |
| AUTHOR | Green, Jerry E. |
| TITLE | The underground gasificaton of coal / Jerry E. Green |
| PUBLICATION | Monticello, Ill. : Council of Planning Librarians, 1977 |
| ITEM 94 | |
| AUTHOR | Hevener, John W., 1933- |
| TITLE | Which side are you on? : The Harlan County coal miners, 1931-39 / John W. Hevener |
| PUBLICATION | Urbana : University of Illinois Press, c1978 |
| ITEM 95 | |
| AUTHOR | Lewis, Ronald L., 1940- |
| TITLE | Coal, iron, and slaves : industrial slavery in Maryland and Virginia, 1715-1865 / Ronald L. Lewis |
| PUBLICATION | Westport, Conn. : Greenwood Press, 1979 |
| ITEM 96 | |
| AUTHOR | Krutilla, John V. |
| TITLE | Economic and fiscal impacts of coal development : Northern Great Plains / John V. Krutilla and Anthony C. Fisher, with Richard E. Rice |
| PUBLICATION | Baltimore : Published for Resources for the Future by the Johns Hopkins University Press, c1978 |
| ITEM 97 | |
| AUTHOR | Husband, Joseph, 1885-1938 |

TITLE A year in a coal-mine / Joseph Husband
 PUBLICATION New York : Arno Press, 1977, c1911

ITEM 98 DESCRIPTION
 AUTHOR Key, Marcus M., and Lorin E. Kerr, eds.
 TITLE Pulmonary reactions to coal dust; a review of U.S. experience. Edited by
 Marcus M. Key, Lorin E. Kerr [and] Merle Bundy
 PUBLICATION New York, Academic Press, 1971

ITEM 99 DESCRIPTION
 AUTHOR
 TITLE Disposal of excess spoil from coal mining and the Surface Mining Control and
 Reclamation Act of 1977 : a study of regulatory requirements, engineering
 practices, and environmental protection objectives : a report / prepared by
 the Committee on Disposal of Excess Spoil, Board on Mineral and Energy
 Resources, Commission on Natural Resources, National Research Council
 PUBLICATION Washington, D.C. : National Academy Press, 1981

ITEM 100 DESCRIPTION
 AUTHOR Ramsay, William, 1930-
 TITLE Unpaid costs of electrical energy : health and environmental impacts from
 coal and nuclear power / William Ramsay
 PUBLICATION Baltimore : Published for Resources for the Future by Johns Hopkins
 University Press, c1979.

ITEM 101 DESCRIPTION
 AUTHOR Graham, Maynard
 TITLE One small coal company's struggle for survival / by Maynard Graham
 PUBLICATION New York : Carlton Press, 1983

ITEM 102 DESCRIPTION
 AUTHOR Cohen, Stan
 TITLE King coal : a pictorial heritage of West Virginia coal mining / by Stan Cohen
 PUBLICATION Charleston, W. Va. : Pictorial Histories Pub. Co., c1984

ITEM 103 DESCRIPTION
 AUTHOR Komanoff, Charles
 TITLE Power plant cost escalation : nuclear and coal capital costs, regulation, and
 economics / Charles Komanoff ; foreword by I.C. Bupp
 PUBLICATION New York : Van Nostrand Reinhold, [1982], c1981

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| ITEM 104 | DESCRIPTION |
| AUTHOR | Suffern, Arthur Elliott, 1878- |
| TITLE | The coal miners' struggle for industrial status |
| PUBLICATION | [New York] : The Macmillan company, 1926 |
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| ITEM 105 | DESCRIPTION |
| AUTHOR | International Labour Office |
| TITLE | The welfare of workers in mines other than coal mines |
| PUBLICATION | Geneva : International Labour Organization, 1975 |
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| ITEM 106 | DESCRIPTION |
| AUTHOR | Lantz, Herman R. |
| TITLE | People of Coal Town, by Herman R. Lantz with the assistance of J. S. McCrary |
| PUBLICATION | New York : Columbia University Press, 1958 |
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| ITEM 107 | DESCRIPTION |
| AUTHOR | Stein, Leon, 1912- comp. |
| TITLE | Massacre at Ludlow: four reports. Edited, with an introd. by Leon Stein and Philip Taft |
| PUBLICATION | New York, Arno, 1971 |
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| ITEM 108 | DESCRIPTION |
| AUTHOR | Turton, Katherine M. |
| TITLE | A study of morbidity patterns among coal miners and spouses of coal miners / Katherine M. Turton |
| PUBLICATION | 1988 |
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| ITEM 109 | DESCRIPTION |
| AUTHOR | Bolten, J. G., ed. [et al.] |
| TITLE | Health risks of toxic emissions from a coal-fired power plant / J.G. Bolten ... [et al.] |
| PUBLICATION | Santa Monica, CA : Rand, [1987] |
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| ITEM 110 | DESCRIPTION |
| AUTHOR | Washington, National Coal Association |
| TITLE | Bituminous coal facts |
| PUBLICATION | 1948-1972. Washington, National Coal Association |

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| ITEM 111 | |
| AUTHOR | Baer, George Frederick, 1842-1914 |
| TITLE | Addresses and writings of George F. Baer, including his argument before the Anthracite coal strike commission, collected by his son-in-law William N. Appel |
| PUBLICATION | [Lancaster, Pa.] : Priv. print. [Wickersham press] 1916 |
| ITEM 112 | |
| AUTHOR | Singer, Stanley |
| TITLE | Pulverized coal combustion : recent developments / by Stanley Singer |
| PUBLICATION | Park Ridge, N.J. : Noyes Publications, c1984 |
| ITEM 113 | |
| AUTHOR | Hanslovan, James J. |
| TITLE | Logistics of underground coal mining / by James J. Hanslovan and Richard G. Visovsky |
| PUBLICATION | Park Ridge, N.J. : Noyes Publications, c1984 |
| ITEM 114 | |
| AUTHOR | Mishra, Surendra K., and Richard R. Klimpel |
| TITLE | Fine coal processing / edited by Surendra K. Mishra, Richard R. Klimpel |
| PUBLICATION | Park Ridge, N.J. : Noyes Publications, c1987 |
| ITEM 115 | |
| AUTHOR | |
| TITLE | Emerging clean coal technologies / by Engineering & Economics Research, Inc., Hagler, Bailly & Company, Inc., PEI Associates Inc. ; Paul W. Spaite, consultant |
| PUBLICATION | Park Ridge, N.J. : Noyes Data Corp., 1986 |
| ITEM 116 | |
| AUTHOR | Gleit, Alan |
| TITLE | Coal sampling and analysis : methods and models / by Alan Gleit, William Moran, Arthur Jung |
| PUBLICATION | Park Ridge, N.J. : Noyes Publications, c1986 |
| ITEM 117 | |
| AUTHOR | Merritt, Roy D. |

TITLE Coal overburden : geological characterization and premine planning / by Roy D. Merritt
 PUBLICATION Park Ridge, N.J. : Noyes Data Corp., 1983

ITEM 118 DESCRIPTION
 AUTHOR Merritt, Roy D.
 TITLE Coal exploration, mine planning, and development / by Roy D. Merritt
 PUBLICATION Park Ridge, N.J. : Noyes Publications, c1986

ITEM 119 DESCRIPTION
 AUTHOR Braithwaite, John
 TITLE To punish or persuade : enforcement of coal mine safety / John Braithwaite
 PUBLICATION Albany : State University of New York Press, c1985

ITEM 120 DESCRIPTION
 AUTHOR Miall, A. D., ed.
 TITLE Sedimentation and tectonics in alluvial basins / edited by A.D. Miall
 PUBLICATION Waterloo, Ont. : Geological Association of Canada, Dept. of Earth Sciences, University of Waterloo, 1981

ITEM 121 DESCRIPTION
 AUTHOR Scott, Andrew C., ed.
 TITLE Coal and coal-bearing strata : recent advances : keynote addresses and invited papers to a conference held at Royal Holloway and Bedford New College, University of London, 8-10 April 1986 / edited by Andrew C. Scott
 PUBLICATION Oxford [Oxfordshire] ; Boston : Published for the Geological Society by Blackwell Scientific Publications, 1987

ITEM 122 DESCRIPTION
 AUTHOR Bustin, R. M.
 TITLE Coal petrology : its principles, methods, and applications / by R.M. Bustin ... [et al.]
 PUBLICATION 2nd rev. ed., spring 1985. St. John's, Nfld. : Geological Association of Canada, 1985

ITEM 123 DESCRIPTION
 AUTHOR Swank, James Moore, 1832-1914
 TITLE Introduction to a history of ironmaking and coal mining in Pennsylvania. Contributed to the final report of the Pennsylvania Board of centennial managers. By James M. Swank

PUBLICATION Philadelphia, Pub. by the author, 1878

ITEM 124	DESCRIPTION
AUTHOR	Miller, Donald L., 1944-
TITLE	The kingdom of coal : work, enterprise, and ethnic communities in the mine fields / Donald L. Miller, Richard E. Sharpless
PUBLICATION	Philadelphia : University of Pennsylvania Press, 1985

ITEM 125	DESCRIPTION
AUTHOR	Hendershot, Judith
TITLE	In coal country / by Judith Hendershot ; illustrated by Thomas B. Allen
PUBLICATION	New York : Knopf : Distributed by Random House, c1987

ITEM 126	DESCRIPTION
AUTHOR	Lantz, Herman R.
TITLE	People of Coal Town, by Herman R. Lantz with the assistance of J. S. McCrary
PUBLICATION	New York, Columbia University Press, 1958

ITEM 127	DESCRIPTION
AUTHOR	Wanless, Harold Rollin, 1899-
TITLE	Pennsylvanian geology of a part of the southern Appalachian coal field, by Harold R. Wanless
PUBLICATION	[New York] Geological Society of America, 1946

ITEM 128	DESCRIPTION
AUTHOR	Keystone Bituminous Coal Association
TITLE	Pennsylvania coal data
PUBLICATION	1981- Harrisburg, Pa. : Keystone Bituminous Coal Association

ITEM 129	DESCRIPTION
AUTHOR	Cooper, Eileen Mountjoy
TITLE	Rochester & Pittsburgh Coal Company : the first one hundred years / Eileen Mountjoy Cooper
PUBLICATION	Indiana, Pa. : Rochester & Pittsburgh Coal Co., c1982

ITEM 130	DESCRIPTION
AUTHOR	
TITLE	Coal for the 70's; a Pennsylvania action conference. April 24, 1974,

Harrisburg, Pennsylvania. Conference proceedings, task force reports, background data
 PUBLICATION Middletown, Pa., Institute of State and Regional Affairs, Capitol Campus, The Pennsylvania State University, 1974

ITEM 131 DESCRIPTION
 AUTHOR Cornell, Robert J.
 TITLE The Anthracite Coal Strike of 1902 / by Robert J. Cornell
 PUBLICATION Washington : Catholic University of America Press, 1957

ITEM 132 DESCRIPTION
 AUTHOR United States. Anthracite coal strike commission, 1902-1903
 TITLE Report to the President on the anthracite coal strike of May-October, 1902, by the Anthracite coal strike commission
 PUBLICATION Washington, Govt. print. off., 1903

ITEM 133 DESCRIPTION
 AUTHOR Konitsky, Erma Y.
 TITLE Work--Out of the dark : A coal area model for high school English class projects in career education / by Erma Y. Konitsky
 PUBLICATION 1980

ITEM 134 DESCRIPTION
 AUTHOR Hoover, Ralph B.
 TITLE Unemployment problem in Pennsylvania's bituminous coal fields / by Ralph B. Hoover, Margaret Montgomery, [and] Marjorie Taylor
 PUBLICATION Indiana, Pa. : [s.n.], 1961

ITEM 135 DESCRIPTION
 AUTHOR Seltzer, Curtis
 TITLE Fire in the hole : miners and managers in the American coal industry / Curtis Seltzer
 PUBLICATION Lexington, Ky. : University Press of Kentucky, c1985

ITEM 136 DESCRIPTION
 AUTHOR
 TITLE The History of the British coal industry
 PUBLICATION Oxford [Oxfordshire] : Clarendon Press ; New York : Oxford University Press, 1984-

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| ITEM 137 | DESCRIPTION |
| AUTHOR | Miller, Donald L., 1944- |
| TITLE | The kingdom of coal : work, enterprise, and ethnic communities in the mine fields / Donald L. Miller, Richard E. Sharpless |
| PUBLICATION | Philadelphia : University of Pennsylvania Press, 1985 |
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| ITEM 138 | DESCRIPTION |
| AUTHOR | Daddow, Samuel Harries |
| TITLE | Coal, iron, and oil; or, The practical American miner. A plain and popular work on our mines and mineral resources, and text-book or guide to their economical development. By Samuel Harries Daddow and Benjamin Bannan |
| PUBLICATION | Pottsville, Pa., B. Bannan; Philadelphia, J. B. Lippincott, 1866 |
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| ITEM 139 | DESCRIPTION |
| AUTHOR | Harvey, Curtis E. |
| TITLE | Coal in Appalachia : an economic analysis / Curtis E. Harvey |
| PUBLICATION | Lexington, Ky. : University Press of Kentucky, c1986 |
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| ITEM 140 | DESCRIPTION |
| AUTHOR | Symposium on Control of Respirable Coal Mine Dust (1983 : Beckley, W. Va.) |
| TITLE | Proceedings of the Symposium on Control of Respirable Coal Mine Dust, Beckley, West Virginia, October 4-6, 1983 / sponsored by Mine Safety and Health Administration, U.S. Department of Labor in cooperation with labor and management of the coal industry ; edited by Joyce A. Barrett ... [et al.] |
| PUBLICATION | [Arlington, Va.] : The Administration, [1983?] |
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| ITEM 141 | DESCRIPTION |
| AUTHOR | Dix, Keith |
| TITLE | What's a coal miner to do? : the mechanization of coal mining / Keith Dix |
| PUBLICATION | Pittsburgh, Pa. : University of Pittsburgh Press, c1988 |
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| ITEM 142 | DESCRIPTION |
| AUTHOR | |
| TITLE | Surface coal mining reclamation : 10 years of progress, 1977-1987 : a report on the protection of the Nation's land and water resources under Title V of the Surface Mining Control and Reclamation Act of 1977 / United States Department of the Interior, Office of Surface Mining Reclamation and Enforcement |
| PUBLICATION | Washington, D.C. : The Office : For sale by the Supt. of Docs., U.S. G.P.O., [1987] |

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| ITEM 143 | DESCRIPTION |
| AUTHOR | Swank, James Moore, 1832-1914 |
| TITLE | Introduction to a history of ironmaking and coal mining in Pennsylvania.
Contributed to the final report of the Pennsylvania Board of centennial
managers. By James M. Swank |
| PUBLICATION | Philadelphia, Pub. by the author, 1878. |
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| ITEM 144 | DESCRIPTION |
| AUTHOR | Arble, Meade |
| TITLE | The long tunnel : a coal miner's journal / Meade Arble |
| PUBLICATION | 1st ed. New York : Atheneum, 1976 |
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| ITEM 145 | DESCRIPTION |
| AUTHOR | Alcamo, Frank P. |
| TITLE | The Windber story : a 20th century model Pennsylvania coal town / Frank
Paul Alcamo |
| PUBLICATION | [S.l.] : Frank P. Alcamo, 1983 |
| | |
| ITEM 146 | DESCRIPTION |
| AUTHOR | Davies, Edward J., II, 1947- |
| TITLE | The anthracite aristocracy : leadership and social change in the hard coal
regions of northeastern Pennsylvania, 1800-1930 / Edward J.
Davies II |
| PUBLICATION | DeKalb, Ill. : Northern Illinois University Press, 1985 |
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| ITEM 147 | DESCRIPTION |
| AUTHOR | Powell, Allan Kent |
| TITLE | The next time we strike : labor in Utah's coal fields, 1900-1933 / Allan Kent
Powell |
| PUBLICATION | Logan, Utah : Utah State University Press, c1985 |
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| ITEM 148 | DESCRIPTION |
| AUTHOR | Kulp, George Brubaker, 1839-1915 |
| TITLE | Historical essays ... By Geo. B. Kulp |
| PUBLICATION | Wilkes-Barre, Pa., 1892 |
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| ITEM 149 | DESCRIPTION |
| AUTHOR | Edkins, Donald O. |

TITLE Edkins' catalogue of United States coal company store scrip (tokens) /
compiled by Donald O. Edkins
PUBLICATION 1st ed. New Kensington, PA : Catalogue Committee of the National Scrip
Collectors Association, 1977

ITEM 150 DESCRIPTION
AUTHOR Binder, Frederick Moore
TITLE Coal age empire : Pennsylvania coal and its utilization to 1860 / by Frederick
Moore Binder
PUBLICATION Harrisburg : Pennsylvania Historical and Museum Commission, 1974

ITEM 151 DESCRIPTION
AUTHOR National Institute for Occupational Safety and Health. Physical Agents
Effects Branch
TITLE Survey of hearing loss in the coal mining industry [microform /] prepared by
the Noise Section of the Physical Agents Effects Branch
PUBLICATION Cincinnati, Ohio : U.S. Dept. of Health, Education, and Welfare, Public
Health Service, Center for Disease Control, National Institute for
Occupational Safety and Health, Division of Biomedical and Behavioral
Science, 1976

ITEM 152 DESCRIPTION
AUTHOR Sternsher, Bernard, 1925- comp.
TITLE Hitting home; the Great Depression in town and country
PUBLICATION Chicago, Quadrangle Books, 1970

ITEM 153 DESCRIPTION
AUTHOR Poliniak, Louis
TITLE When coal was king : mining Pennsylvania's anthracite; early coal mining in
picture and story in the land of the Mollie Maguires. / Louis Poliniak
PUBLICATION Lebanon, Pa. : Applied Arts Publishers, 1970

ITEM 154 DESCRIPTION
AUTHOR Swank, James Moore, 1832-1914
TITLE History of the manufacture of iron in all ages, and particularly in the United
States from colonial time to 1891. Also a short history of early coal mining in
the United States ... By James M. Swank
PUBLICATION 2d ed., thoroughly rev. and greatly enl. Philadelphia, The American Iron and
Steel Association, 1892

ITEM 155	DESCRIPTION
AUTHOR	Roberts, Peter, 1859-
TITLE	The anthracite coal industry; a study of the economic conditions and relations of the co-operative forces in the development of the anthracite coal industry of Pennsylvania, by Peter Roberts, PH.D., with an introduction by W. G. Sumner
PUBLICATION	New York, The Macmillan Company; London, Macmillan & Co., ltd., 1901

ITEM 156	DESCRIPTION
AUTHOR	Sheppard, Muriel (Earley)
TITLE	Cloud by day, the story of coal and coke and people
PUBLICATION	Chapel Hill, Univ. of North Carolina Press, 1947

ITEM 157	DESCRIPTION
AUTHOR	Toole, K. Ross (Kenneth Ross), 1920-1981
TITLE	The rape of the Great Plains : Northwest America, cattle and coal / K. Ross Toole
PUBLICATION	1st ed. Boston : Little, Brown, and Co., c1976

ITEM 158	DESCRIPTION
AUTHOR	Coleman, James Walter, 1905-
TITLE	The Molly Maguire riots; industrial conflict in the Pennsylvania coal region, by J. Walter Coleman
PUBLICATION	Richmond : Garrett and Massie, 1936

ITEM 159	DESCRIPTION
AUTHOR	United States. Coal Mines Administration
TITLE	A medical survey of the bituminous-coal industry. Report of the Coal mines administration
PUBLICATION	Washington : [U.S. Govt. Print. Off.] 1947

ITEM 160	DESCRIPTION
AUTHOR	Shubert, Adrian, 1953-
TITLE	The road to revolution in Spain : the coal miners of Asturias, 1860-1934 / Adrian Shubert
PUBLICATION	Urbana : University of Illinois Press, c1987

ITEM 161	DESCRIPTION
AUTHOR	
TITLE	Health risk from a coal tar disposal site / J.G. Bolten, ... [et al.] ; prepared for the Electric Power Research Institute

PUBLICATION Santa Monica, CA : Rand, [1988]

ITEM 162	DESCRIPTION
AUTHOR	Wallace, Anthony F. C., 1923-
TITLE	St. Clair : a nineteenth-century coal town's experience with a disaster-prone industry / Anthony F.C. Wallace ; with maps and technical drawings by Robert Howard
PUBLICATION	1st ed. New York : Knopf : Distributed by Random House, 1987

ITEM 163	DESCRIPTION
AUTHOR	Majumdar, Shyamal K., and E. Willard Miller
TITLE	Pennsylvania coal : resources, technology, and utilization / edited by Shyamal K. Majumdar and E. Willard Miller
PUBLICATION	Easton, Pa. : Pennsylvania Academy of Science, c1983

ITEM 164	DESCRIPTION
AUTHOR	Hoover, Ralph B.
TITLE	The problem of unemployment in the coal industry in western Pennsylvania / by Ralph B. Hoover
PUBLICATION	Indiana, Pa. : [s.n.], 1960

ITEM 165	DESCRIPTION
AUTHOR	Cooper, Eileen Mountjoy
TITLE	Rochester & Pittsburgh Coal Company : the first one hundred years / Eileen Mountjoy Cooper ; the chapter "Decade of promise--R&P in the seventies" by W. Joseph Engler, Jr.
PUBLICATION	[Indiana, Pa.] : The Company, c1982

ITEM 166	DESCRIPTION
AUTHOR	Miesse, Charles
TITLE	Points on coal and the coal business, containing an explanation of how coal was formed, coal veins, how they were deposited. A description of the coal flora, vegetation, coal discovery, introduction, history, mining, preparation and marketing, shipping, statistics, data, gases and fires in mines, biographical sketches and record of coal operators, etc., etc., etc. History of the anthracite coal field and its surroundings, with miscellany, by Charles Miesse
PUBLICATION	Myerstown, Pa., Feese & Urich, 1887

ITEM 167	DESCRIPTION
AUTHOR	Lewis, Ronald L., 1940-

TITLE Black coal miners in America : race, class, and community conflict,
1780-1980 / Ronald L. Lewis
PUBLICATION Lexington, Ky. : University Press of Kentucky, c1987

ITEM 168 DESCRIPTION
AUTHOR Smith, Helene
TITLE Export : a patch of tapestry out of coal country America / Helene Smith ;
book design, Gregory M. Smith ; illustration, Laurel Smith
PUBLICATION Ltd. ed. Greensburg, Pa. : Mc Donald/Sward Co., 1986

ITEM 169 DESCRIPTION
AUTHOR Galloway, William E.
TITLE Terrigenous clastic depositional systems : applications to petroleum, coal, and
uranium exploration / W.E. Galloway, David K. Hobday
PUBLICATION New York : Springer-Verlag, c1983

ITEM 170 DESCRIPTION
AUTHOR Sweet, Sylvanus H.
TITLE Communication from the State Engineer and Surveyor transmitting a special
report on coal. Transmitted to the Legislature March 18, 1865
PUBLICATION Albany, Weed, Parsons and Company, printers, 1866

ITEM 171 DESCRIPTION
AUTHOR Bolten, J. G. (Joseph George), 1944-
TITLE A case study of selenium emissions from a coal-fired power plant / J.G.
Bolten, S.A. Resetar
PUBLICATION Santa Monica, CA : Rand, [1986]

ITEM 172 DESCRIPTION
AUTHOR Dunn, Matthias
TITLE An historical, geological and descriptive view of the coal trade of the north of
England [Microform :] comprehending its rise, progress, present state and
future prospects : to which are appended a concise notice of the peculiarities
of certain coal fields in Great Britain and Ireland : and also a general
description of the coal mines of Belgium, drawn up from actual inspection /
by Matthias Dunn
PUBLICATION Newcastle upon Tyne : w Garrell, 1844 (Pattison and Ross)

ITEM 173 DESCRIPTION
AUTHOR Dundonald, Archibald Cochrane, Earl of, 1749-1831

TITLE Account of the qualities and uses of coal tar and coal varnish [microform :]
with certificates from ship-masters and others
PUBLICATION [S. l. : s. n.], 1784 (Edinburgh : W. Smellie)

ITEM 174 DESCRIPTION
AUTHOR Murchison, Roderick Impey, Sir, 1792-1871
TITLE The Silurian system [microform :] founded on geological researches in the
counties of Salop, Hereford, Radnor, Montgomery, Caermarthen, Brecon,
Pembroke, Monmouth, Gloucester, Worcester, and Stafford : with
descriptions of the coal-fields and overlying formations / by Roderick Impey
Murchison
PUBLICATION London : J. Murray, 1839 (R. and J.E. Taylor)

ITEM 175 DESCRIPTION
AUTHOR Clegg, Samuel, 1814-1856
TITLE A practical treatise on the manufacture and distribution of coal-gas
[microform :] its introduction and progressive improvement / by Samuel
Clegg
PUBLICATION London : J. Weale, 1841 (R. and J.E. Taylor)

ITEM 176 DESCRIPTION
AUTHOR Williams, Charles Wye, 1779-1866
TITLE The combustion of coal and the prevention of smoke [microform:] chemically
and practically considered / by C.W. Williams
PUBLICATION London : J. Weale ; New York : Appleton, 1854

ITEM 177 DESCRIPTION
AUTHOR Accum, Friedrich Christian, 1769-1838
TITLE Description of the process of manufacturing coal gas [microform :] for the
lighting of streets, houses, and public buildings : with elevations, sections, and
plans of the most improved sorts of apparatus now employed at the gas works
in London, and the principal provincial towns of Great Britain : accompanied
with comparative estimates, exhibiting the most economical mode of
procuring this species of light / by Fredrick Accum
PUBLICATION London : Printed for T. Boys, 1819

ITEM 178 DESCRIPTION
AUTHOR Jameson, Robert, 1774-1854
TITLE An outline of the mineralogy of the Shetland Islands, and of the island of
Arran [microform :] with an appendix containing observations on peat, kelp,
and coal / by Robert Jameson

PUBLICATION Edinburgh : W. Creech ; London : T. Cadell, and W. Davies, 1798

ITEM 179	DESCRIPTION
AUTHOR	Gardner, Walter M.
TITLE	The British coal-tar industry [microform :] its origin, development, and decline / edited by Walter M. Gardner
PUBLICATION	London : Williams and Norgate, 1915

ITEM 180	DESCRIPTION
AUTHOR	Reimann, M.
TITLE	On aniline and its derivatives [microform :] a treatise upon the manufacture of aniline and aniline colours / by M. Reimann ; to which is added, an appendix, The report on the colouring matters derived from coal tar shown at the French exhibition, 1867, by A.W. Hofmann, G. de Laire and Ch. Girard ; the whole revised and edited by William Crookes
PUBLICATION	London : Longmans, Green, 1868

ITEM 181	DESCRIPTION
AUTHOR	Davy, Humphry, Sir, 1778-1829
TITLE	On the safety lamp for coal miners [microform :] with some researches on flame / by Sir Humphry Davy
PUBLICATION	London : Printed for R. Hunter, 1818 (H. Bryer)

ITEM 182	DESCRIPTION
AUTHOR	Lightcap, Dixon S.
TITLE	Relationship between fold geometry, depth of cover and volatile matter content in the upper and lower Freeport coal seams of Cambria, Indiana and Westmoreland counties of Pennsylvania / by Dixon S. Lightcap
PUBLICATION	1986

ITEM 183	DESCRIPTION
AUTHOR	Harrow, Benjamin, 1888-1970
TITLE	Eminent chemists of our time
PUBLICATION	2d ed., enl. Freeport, N.Y., Books for Libraries Press [1968]

ITEM 184	DESCRIPTION
AUTHOR	Benson, John
TITLE	British coal-miners in the nineteenth century : a social history / John Benson
PUBLICATION	New York : Holmes & Meier, 1980

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| ITEM 185 | DESCRIPTION |
| AUTHOR | Hoiberg, Arnold John, ed. |
| TITLE | Bituminous materials: asphalts, tars, and pitches, edited by Arnold J. Hoiberg |
| PUBLICATION | New York, Interscience Publishers, 1964-[66] |
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| ITEM 186 | DESCRIPTION |
| AUTHOR | Clark, James Albert, 1841-1908 |
| TITLE | The Wyoming valley, upper waters of the Susquehanna, and the Lackawanna coal-region, including views of the natural scenery of northern Pennsylvania, from the Indian occupancy to the Year 1875. Photographically illustrated. |
| PUBLICATION | Ed. by J. A. Clark
Scranton, Pa., J. A. Clark, 1875 |
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| ITEM 187 | DESCRIPTION |
| AUTHOR | |
| TITLE | Historical sketch of the Switchback Railroad, the discovery of anthracite coal, and an account of the rise and growth of the Lehigh Coal & Navigation Company |
| PUBLICATION | New York : American Bank Note Company, 1883, 1882 |
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| ITEM 188 | DESCRIPTION |
| AUTHOR | Henry, Mathew Schropp, 1790-1862 |
| TITLE | History of the Lehigh Valley, containing a copious selection of the most interesting facts, traditions, biographical sketches, anecdotes, etc., etc., relating to its history and antiquities. With complete history of all its internal improvements, progress of the coal and iron trade, manufactures, etc. |
| PUBLICATION | Easton, Pa., Bixler & Corwin, 1860 |
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| ITEM 189 | DESCRIPTION |
| AUTHOR | International Energy Agency |
| TITLE | Coal prospects and policies in IEA countries : 1981 review / International Energy Agency |
| PUBLICATION | Paris : OECD, 1982 |
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| ITEM 190 | DESCRIPTION |
| AUTHOR | Kellner, Thomas J. |
| TITLE | Incentive systems in the underground bituminous coal mining industry / by Thomas J. Kellner |
| PUBLICATION | 1984 |

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| ITEM 191 | DESCRIPTION |
| AUTHOR | Van Krevelen, D. W. (Dirk Willem) |
| TITLE | Coal: typology, chemistry, physics, constitution |
| PUBLICATION | [Completely rev. and up-to-date ed.] Amsterdam, New York, Elsevier Pub. Co., 1961 |
| | |
| ITEM 192 | DESCRIPTION |
| AUTHOR | Vorres, Karl S., ed. |
| TITLE | Mineral matter and ash in coal / Karl S. Vorres, editor |
| PUBLICATION | Washington, DC : American Chemical Society, 1986 |
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| ITEM 193 | DESCRIPTION |
| AUTHOR | Morris, Homer Lawrence, 1886- |
| TITLE | The plight of the bituminous coal miner, by Homer Lawrence Morris, with a foreword by Joseph H. Willits |
| PUBLICATION | Philadelphia, University of Pennsylvania Press; London, H. Milford, Oxford University Press, 1934 |
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| ITEM 194 | DESCRIPTION |
| AUTHOR | McDonald, David John, 1902- |
| TITLE | Coal and unionism; a history of the American coal miners' unions, by David J. McDonald and Edward A. Lynch |
| PUBLICATION | [Silver Spring, Md., Indianapolis, Ind., Cornelius printing company, c1939] |
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| ITEM 195 | DESCRIPTION |
| AUTHOR | Boate, Gerard, 1604-1650 |
| TITLE | Irelands natural history [microform :] being a true and ample description of its situation, greatness, shape, and nature, of its hills, woods, heaths, bogs, of its fruitful parts, and profitable grounds : with the severall ways of manuring and improving the same : with its heads or promontories, harbours, roads, and bays, of its springs and fountains, brooks, rivers, loghs, of its metall, mineralls, free-stone, marble, sea-coal, turf, and other things that are taken out of the ground : and lastly of the nature and temperature of its air and season, and what diseases it is free from or subject unto : conducing to the advancement of navigation, husbandry, and other profitable arts and professions / written by Gerald Boate ; and now published by Samuëll Hartlib for the common good of Ireland and more especially for the benefit of the adventurers and planters therein |
| PUBLICATION | London : Imprinted for John Wright, 1657 |
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| ITEM 196 | DESCRIPTION |

AUTHOR Hellman, Richard, 1913-
 TITLE The competitive economics of nuclear and coal power / Richard Hellman,
 Caroline J.C. Hellman
 PUBLICATION Lexington, Mass. : LexingtonBooks, c1983

ITEM 197 DESCRIPTION
 AUTHOR Thompson, Joseph Wesley, 1853-
 TITLE United States mining statutes annotated / Joseph Wesley Thompson
 PUBLICATION Washington: Government Printing Off., 1915

ITEM 198 DESCRIPTION
 AUTHOR Hanford Life Sciences Symposium (20th : 1980 : Richland, Wash.)
 TITLE Coal conversion and the environment [microform :] chemical, biomedical, and
 ecological considerations : proceedings of the Twentieth Annual Hanford Life
 Sciences Symposium at Richland, Washington, October 19-23, 1980 /
 sponsored by Office of Health and Environmental Research, Office of Energy
 Research, U.S. Department of Energy, and Pacific Northwest Laboratories,
 Battelle Memorial Institute ; editors, D. Dennis Mahlum, Robert H. Gray, W.
 Dale Felix
 PUBLICATION Oak Ridge, TN : Technical Information Center, U.S. Dept. of Energy, 1981

ITEM 199 DESCRIPTION
 AUTHOR Pfeifer, C. Michael (Charles Michael), 1946-
 TITLE Psychological, behavioral, and organizational factors affecting coal miner
 safety and health microform / by C. Michael Pfeifer, Joseph L. Stefanski, and
 Craig B. Grether
 PUBLICATION Columbia, Md. : Westinghouse Behavioral Services Center, 1976

ITEM 200 DESCRIPTION
 AUTHOR Cooley, W. L.
 TITLE Analysis of coal mine electrical accidents [microform /] [W.L. Cooley, B.S.
 Tenney, Z. Elrazaz]
 PUBLICATION Washington, D.C. : Bureau of Mines, U.S. Dept. of the Interior, Minerals
 Health and Safety Technology, [1981]

ITEM 201 DESCRIPTION
 AUTHOR Ho, Ch'un-sun
 TITLE Coal resources of Taiwan : report of the coal reserves of Taiwan / [C.S. Ho]
 PUBLICATION Taipei : Coal Exploration Inc., Ministry of Economic Affairs, 1959

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| ITEM 202 | DESCRIPTION |
| AUTHOR | Wills, Leonard Johnston, 1884- |
| TITLE | Concealed coalfields; a palaeogeographical study of the stratigraphy and tectonics of mid-England in relation to coal reserves |
| PUBLICATION | London, Blackie, 1956 |
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| ITEM 203 | DESCRIPTION |
| AUTHOR | Williamson, Iain Ashworth |
| TITLE | Coal mining geology [by] Iain A. Williamson |
| PUBLICATION | London, New York [etc.] Oxford U.P., 1967 |
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| ITEM 204 | DESCRIPTION |
| AUTHOR | Lesley, J. Peter, 1819-1903 |
| TITLE | Manual of coal and its topography. Illustrated by original drawings, chiefly of facts in the geography of the Appalachian region of the United States of North America. By J. P. Lesley |
| PUBLICATION | Philadelphia, J. B. Lippincott ltd. co., 1856 |
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| ITEM 205 | DESCRIPTION |
| AUTHOR | Leifchild, John R., 1815- |
| TITLE | Our coal and our coal-pits |
| PUBLICATION | New York, A. M. Kelley, 1968 |
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| ITEM 206 | DESCRIPTION |
| AUTHOR | American Conference on Coal Science (1964 : University Park, Pa.) |
| TITLE | Coal science; [papers] Peter H. Given, conference chairman |
| PUBLICATION | Washington, American Chemical Society, 1966 |
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| ITEM 207 | DESCRIPTION |
| AUTHOR | Sullivan Machinery Company |
| TITLE | Modern methods of producing coal : 1902 catalogue number 48 ..., coal mining machinery |
| PUBLICATION | [Chicago, etc.] : Sullivan Machinery Company, [1902] |
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| ITEM 208 | DESCRIPTION |
| AUTHOR | Francis, Wilfrid, 1899- |
| TITLE | Coal, its formation and composition |
| PUBLICATION | London, E. Arnold [1954] |

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| ITEM 209 | DESCRIPTION |
| AUTHOR | Payne, K. R., ed. |
| TITLE | Chemicals from coal : new developments / edited by K.R. Payne |
| PUBLICATION | Oxford : Published for the Society of Chemical Industry by Blackwell, 1985 |
| | |
| ITEM 210 | DESCRIPTION |
| AUTHOR | Keystone Bituminous Coal Association |
| TITLE | Pennsylvania coal data |
| PUBLICATION | 1981- Harrisburg, Pa. : Keystone Bituminous Coal Association |
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| ITEM 211 | DESCRIPTION |
| AUTHOR | Lesley, J. Peter, 1819-1903 |
| TITLE | The geology of the Pittsburgh coal region / by J.P. Lesly |
| PUBLICATION | Pittsburgh, [Pa. : s.n.], 1886 |
| | |
| ITEM 212 | DESCRIPTION |
| AUTHOR | Ashburner, Charles Albert, 1854-1889 |
| TITLE | The anthracite coal beds of Pennsylvania |
| PUBLICATION | Author's ed. n.p., 1882 |
| | |
| ITEM 213 | DESCRIPTION |
| AUTHOR | Roberts, William F. |
| TITLE | Reports upon the West Hazleton and Cattawissa Falls and the East Mahanoy coal and iron estates, situate in Luzerne and Schuylkill counties, Pa., continuing eleven thousand acres, extending eight miles from north to south, and crossing the Mahanoy, the Beaver Meadow and summit, the Hazleton and the Black Creek coal fields. By W.F. Roberts |
| PUBLICATION | Philadelphia, J.C. Clark, printer, 1846 |
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| ITEM 214 | DESCRIPTION |
| AUTHOR | Beard, James Thom, 1855- |
| TITLE | Mine gases and ventilation; textbook for students of mining, mining engineers and candidates preparing for mining examinations designed for working out the various problems that arise in the practice of coal mining, as they relate to the safe and effecient operation of mines, by James T. Beard |
| PUBLICATION | 2d ed., rev. and enl. New York : McGraw-Hill, 1920 |
| | |
| ITEM 215 | DESCRIPTION |
| AUTHOR | Hoar, Hannah Marceline (Dayle) 1870- |
| TITLE | The coal industry of the world with special reference to international trade in |

PUBLICATION coal, by H.M. Hoar, Minerals Division
Washington : U.S. Govt. Print. Off., 1930

ITEM 216	DESCRIPTION
AUTHOR	Cothren, Marion (Benedict) 1880-1949
TITLE	Buried treasure; the story of America's coal, illustrated with photographs, by Marion B. Cothren
PUBLICATION	New York : Coward-McCann, inc. [c1945]

ITEM 217	DESCRIPTION
AUTHOR	
TITLE	[Coal Age.] Coal mining kinks, comp. from the regular issues of Coal Age
PUBLICATION	New York : McGraw-Hill Publishing Company, 1916

ITEM 218	DESCRIPTION
AUTHOR	Woodruff, Seth D.
TITLE	Methods of working coal and metal mines, by Seth D. Woodruff
PUBLICATION	[1st ed.] Oxford, New York : Pergamon Press [1966]

ITEM 219	DESCRIPTION
AUTHOR	Foster, Thomas J.
TITLE	Coal miners' pocketbook, formerly The coal and metal miners' pocketbook; principles, rules, formulas and tables
PUBLICATION	11th ed., rev. and enl., and entirely reset. New York : McGraw-Hill Book Company, inc.; [etc., etc.] 1916

ITEM 220	DESCRIPTION
AUTHOR	Caldwell, Otis William, 1869- ed.
TITLE	Science remaking the world, edited by Otis W. Caldwell and Edwin E. Slosson
PUBLICATION	Garden City, N.Y. : Garden City Pub., [c1923]

ITEM 221	DESCRIPTION
AUTHOR	International Conference on Bituminous Coal (3rd : 1931 : Pittsburgh)
TITLE	Proceedings of the third International Conference on Bituminous Coal, November 16 to 21, 1931, Carnegie Institute of Technology, Pittsburgh, Pennsylvania
PUBLICATION	[Pittsburgh : Carnegie Institute of Technology, c1932]

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| ITEM 222 | DESCRIPTION |
| AUTHOR | International Conference on Bituminous Coal (2nd : 1928 : Pittsburgh) |
| TITLE | Proceedings of the second International Conference on Bituminous Coal, November 19 to 24, 1928, Carnegie Institute of Technology, Pittsburgh, Pennsylvania |
| PUBLICATION | [Pittsburgh, c1929] |
| | |
| ITEM 223 | DESCRIPTION |
| AUTHOR | United Coke and Gas Company, New York |
| TITLE | A short treatise on the destructive distillation of bituminous coal. With reference to the United-Otto system of by-product coke ovens |
| PUBLICATION | New York : The United Coke and Gas Company, 1906 |
| | |
| ITEM 224 | DESCRIPTION |
| AUTHOR | Goldman, Gordon Kenneth |
| TITLE | Liquid fuels from coal, 1972 [by] G. K. Goldman |
| PUBLICATION | Park Ridge, N.J. : Noyes Data Corp. [1972] |
| | |
| ITEM 225 | DESCRIPTION |
| AUTHOR | Evans, Ivor |
| TITLE | The strength, fracture, and workability of coal; a monograph on basic work on coal winning carried out by the Mining Research Establishment, National Coal Board, by Ivor Evans and C.D. Pomeroy |
| PUBLICATION | [1st ed.]. Oxford, New York : Pergamon Press [1966] |
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| ITEM 226 | DESCRIPTION |
| AUTHOR | Essenhigh, Robert Henry |
| TITLE | Combustion phenomena in coal dusts and two-component hypothesis of coal constitution [by] R. H. Essenhigh [and] J. B. Howard |
| PUBLICATION | University Park : Pennsylvania State University [1971] |
| | |
| ITEM 227 | DESCRIPTION |
| AUTHOR | Bituminous Coal Research, inc. |
| TITLE | The metallurgical, chemical, and other process uses of coal; a survey of yields, unit fuel, and power consumption, typical end products and their uses, with present and future coal requirements, by R. A. Glenn, supervising chemist and H. J. Rose, vice president and consultant |
| PUBLICATION | Pittsburgh, c1958 |
| | |
| ITEM 228 | DESCRIPTION |

AUTHOR Wilson, Philip J.
 TITLE Coal, coke, and coal chemicals, by Philip J. Wilson, Jr., and Joseph H. Wells
 PUBLICATION 1st ed. New york : McGraw-Hill, 1950

ITEM 229 DESCRIPTION
 AUTHOR Adler, Irving
 TITLE Coal [by] Irving and Ruth Adler
 PUBLICATION New York : J. Day Co. [1965]

ITEM 230 DESCRIPTION
 AUTHOR Battelle Memorial Institute
 TITLE Economics of fuel gas from coal an analysis of the technical and economic factors which control the commercial feasibility in the United States of manufacturing fuel gas from coal, by Battelle Memorial Institute. John F. Foster and Richard J. Lund, editors for Bituminous Coal Research, inc.
 PUBLICATION 1st ed. New York : McGraw-Hill, 1950

ITEM 231 DESCRIPTION
 AUTHOR Martin, Edward Alfred, 1864-
 TITLE The story of a piece of coal; what it is, whence it comes, and whither it goes, by Edward A. Martin
 PUBLICATION New York : McClure, Phillips, 1904 [c1896]

ITEM 232 DESCRIPTION
 AUTHOR Steele, John Washington
 TITLE Coal oil Johnny; story of his career as told by himself (John Washington Steele)
 PUBLICATION Franklin, Pa., 1902

ITEM 233 DESCRIPTION
 AUTHOR
 TITLE Coal as an energy resource : conflict and consensus
 PUBLICATION Washington : National Academy of Sciences, 1977

ITEM 234 DESCRIPTION
 AUTHOR Dilcher, David L., and Thomas N. Taylor, eds.
 TITLE Biostratigraphy of fossil plants : successional and paleoecological analyses / edited by David L. Dilcher and Thomas N. Taylor
 PUBLICATION Stroudsburg, Pa. : Dowden, Hutchinson & Ross ; [New York] : distributed by Academic Press, c1980

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| ITEM 235 | DESCRIPTION |
| AUTHOR | Political and Economic Planning |
| TITLE | European organisations |
| PUBLICATION | London, 1959 |
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| ITEM 236 | DESCRIPTION |
| AUTHOR | Baldwin, George Benedict |
| TITLE | Beyond nationalization; the labor problems of British coal |
| PUBLICATION | Cambridge, Harvard University Press, 1955 |
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| ITEM 237 | DESCRIPTION |
| AUTHOR | Caldwell, Otis William, 1869- ed. |
| TITLE | Science remaking the world, edited by Otis W. Caldwell and Edwin E. Slosson |
| PUBLICATION | Garden City, N.Y., Doubleday, Page & Company, 1923 |
| | |
| ITEM 238 | DESCRIPTION |
| AUTHOR | Boileau, John W. |
| TITLE | Coal fields of southwestern Pennsylvania, Washington and Greene Counties. Fields of coking coal located in eastern Greene and southeastern Washington Counties, owned and largely controlled by J.V. Thompson |
| PUBLICATION | [Pittsburgh?] c1907 |
| | |
| ITEM 239 | DESCRIPTION |
| AUTHOR | Dauphin and Susquehanna coal company |
| TITLE | Report to the stockholders of the Dauphin and Susquehanna coal company |
| PUBLICATION | Philadelphia : T.K. & P.G. Collins, 1848 |
| | |
| ITEM 240 | DESCRIPTION |
| AUTHOR | Taylor, Richard Cowling, 1789-1851 |
| TITLE | Two reports: on the coal lands, mines and improvements of the Dauphin and Susquehanna coal company, and of the geological examinations, present condition and prospects of the Stony creek coal estate, in the townships of Jackson, Rush, and Middle Paxtang, in the county of Dauphin, and of East Hanover township, in the county of Lebanon, Pennsylvania. With an appendix, containing numerous tables and statistical information, and various maps, sections, and diagrams, chiefly in illustration of coal and iron. Addressed to the board of directors of the Dauphin and Susquehanna coal company, and to the trustees of the Stony creek coal estate, by Richard C. |

PUBLICATION Taylor, president of the board of directors
Philadelphia, E. G. Dorsey, printer, 1840

ITEM 241	DESCRIPTION
AUTHOR	Tsai, Shirley Cheng, 1941-
TITLE	Fundamentals of coal beneficiation and utilization / Shirley Cheng Tsai
PUBLICATION	Amsterdam, the Netherlands ; New York : Elsevier Scientific Pub. Co., 1982

ITEM 242	DESCRIPTION
AUTHOR	Roudabush, Charles Edward, 1880-
TITLE	Mary of the anthracite; a story of the Pennsylvania coal region, by Charles Edward Roudabush
PUBLICATION	New York, Fortuny's [c1939]

ITEM 243	DESCRIPTION
AUTHOR	Tedeschi, Robert J., 1921-
TITLE	Acetylene-based chemicals from coal and other natural resources / Robert J. Tedeschi
PUBLICATION	New York : M. Dekker, c1982

ITEM 244	DESCRIPTION
AUTHOR	Osbourne, Lloyd, 1868-1947
TITLE	The motormaniacs
PUBLICATION	Freeport, N.Y., Books for Libraries Press [1969]

ITEM 245	DESCRIPTION
AUTHOR	National Research Council. Committee on Mineral Resources and the Environment
TITLE	Mineral resources and the environment, supplementary report : coal workers' pneumoconiosis, medical considerations, some social implications / A report prepared by the Committee on Mineral Resources and the Environment (COMRATE), Commission on Natural Resources, National Research Council
PUBLICATION	Washington : National Academy of Sciences, 1976

ITEM 246	DESCRIPTION
AUTHOR	National Industrial Conference Board
TITLE	The competitive position of coal in the United States
PUBLICATION	New York, National conference board, inc., 1932

- | ITEM 247 | DESCRIPTION |
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| AUTHOR | |
| TITLE | Guide-book of the Central railroad of New Jersey, and its connections through the coal-fields of Pennsylvania |
| PUBLICATION | New York : Harper & brothers, 1864 |
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| ITEM 248 | DESCRIPTION |
| AUTHOR | Stach, Erich, 1896- |
| TITLE | Stach's Textbook of coal petrology |
| PUBLICATION | 3rd rev. and enl. ed. / by E. Stach ... [et al.] ; transl. and Eng. rev. by D.G. Murchison ... [et al.]. Berlin ; Stuttgart : Borntraeger, 1982 |
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| ITEM 249 | DESCRIPTION |
| AUTHOR | Verhoeff, Mary |
| TITLE | The Kentucky mountains, transportation and commerce, 1750 to 1911; a study in the economic history of a coal field, by Mary Verhoeff |
| PUBLICATION | Louisville, Ky. : J. P. Morton & Co. (inc.), printers to the Filson Club, 1911 |
| | |
| ITEM 250 | DESCRIPTION |
| AUTHOR | Bowen, Eli, b. 1824 |
| TITLE | The pictorial sketch-book of Pennsylvania : or, its scenery, internal improvements, resources, and agriculture / popularly described by Eli Bowen |
| PUBLICATION | 8th ed., rev. and greatly enlarged. Philadelphia : W. White Smith, 1854 |
| | |
| ITEM 251 | DESCRIPTION |
| AUTHOR | Cooley, W. L. |
| TITLE | Analysis of coal mine electrical accidents / [W.L. Cooley, B.S. Tenney, Z. Elrazaz] |
| PUBLICATION | Washington, D.C. : Bureau of Mines, U.S. Dept. of the Interior, Minerals Health and Safety Technology, [1981] |
| | |
| ITEM 252 | DESCRIPTION |
| AUTHOR | Davidson, James Wheeler, 1872-1933 |
| TITLE | The island of Formosa, historical view from 1430 to 1900 ; history, people, resources, and commercial prospects. Tea, camphor, sugar, gold, coal, sulphur, economical plants, and other productions / James W. Davidson. With two new maps, frontispiece in colour, one hundred and sixty-eight illustrations from photographs, and coloured reproductions of two Chinese posters |
| PUBLICATION | [Taipei: Book World Co. ; n. d.] |

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| ITEM 253 | DESCRIPTION |
| AUTHOR | Robson, Robert, ed. |
| TITLE | Ideas and institutions of Victorian Britain; essays in honour of George Kitson Clark. Edited by Robert Robson |
| PUBLICATION | New York : Barnes & Noble, 1967 |
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| ITEM 254 | DESCRIPTION |
| AUTHOR | Stamp, Laurence Dudley, Sir, 1898- ed. |
| TITLE | London essays in geography; Rodwell Jones memorial volume, edited by L. Dudley Stamp and S. W. Wooldridge. Published for the London School of Economics and Political Science (University of London) |
| PUBLICATION | Cambridge : Harvard University Press, 1951 |
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| ITEM 255 | DESCRIPTION |
| AUTHOR | Toole, Kenneth Ross, 1920- |
| TITLE | The rape of the Great Plains : Northwest America, cattle and coal / K. Ross Toole |
| PUBLICATION | 1st ed. Boston : Little, Brown, and Co., c1976 |
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| ITEM 256 | DESCRIPTION |
| AUTHOR | Sternsher, Bernard, 1925- comp. |
| TITLE | Hitting home; the Great Depression in town and country |
| PUBLICATION | Chicago : Quadrangle Books, 1970 |
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| ITEM 257 | DESCRIPTION |
| AUTHOR | Thorpe, Thomas Edward, Sir, 1845-1925, ed. |
| TITLE | Coal; its history and uses, by Professors Green, Miall, Thorpe, Rucker, and Marshall of Yorkshire college. Ed. by Prof. Thorpe |
| PUBLICATION | London, Macmillan & co., 1878 |
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| ITEM 258 | DESCRIPTION |
| AUTHOR | Straus, Richard |
| TITLE | Coal, steel, atoms, and trade; the challenge of uniting Europe. With an introd. by Will L. Clayton |
| PUBLICATION | New York : Coward-McCann [1962] |
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| ITEM 259 | DESCRIPTION |
| AUTHOR | Crelling, John Crawford, 1941- |
| TITLE | Principles and applications of coal petrology : short course notes / by John C. Crelling and Russell R. Dutcher |

PUBLICATION [S.l.] : Society of Economic Paleontologists & Mineralogists, 1980

ITEM 260	DESCRIPTION
AUTHOR	Beckett, J. V.
TITLE	Coal and tobacco : the Lowthers and the economic development of West Cumberland, 1660-1760 / J. V. Beckett
PUBLICATION	Cambridge [Eng.] ; New York : Cambridge University Press, 1981

ITEM 261	DESCRIPTION
AUTHOR	Andrew, Prudence, 1924-
TITLE	A sparkle from the coal
PUBLICATION	[1st American ed.] New York, Putnam [1965]

ITEM 262	DESCRIPTION
AUTHOR	Nash, Michael, 1946-
TITLE	Conflict and accommodation : coal miners, steel workers, and socialism, 1890-1920 / Michael Nash
PUBLICATION	Westport, Conn. : Greenwood Press, 1982

ITEM 263	DESCRIPTION
AUTHOR	Lister, Louis
TITLE	Europe's Coal and Steel Community, an experiment in economic union
PUBLICATION	New York : Twentieth Century Fund 1960

ITEM 264	DESCRIPTION
AUTHOR	Pounds, Norman John Greville
TITLE	Coal and steel in Western Europe; the influence of resources and techniques on production, by Norman J. G. Pounds and William N. Parker
PUBLICATION	Bloomington : Indiana University Press, 1957

ITEM 265	DESCRIPTION
AUTHOR	Thurmond, Walter R., 1881-
TITLE	The Logan coal field of West Virginia; a brief history, by Walter R. Thurmond
PUBLICATION	Morgantown : West Virginia University Library, 1964

ITEM 266	DESCRIPTION
AUTHOR	Nef, John Ulric, 1899-
TITLE	The rise of the British coal industry [by] J. U. Nef

PUBLICATION [Hamden, Conn.] : Archon Books, 1966

ITEM 267	DESCRIPTION
AUTHOR	Roy, Andrew
TITLE	The coal mines; containing a description of the various systems of working and ventilating mines, together with a sketch of the principal coal regions of the globe, including statistics of the coal production. By Andrew Roy
PUBLICATION	Cleveland, OH : Robison, Savage & Co., 1876

ITEM 268	DESCRIPTION
AUTHOR	Nathan (Robert R.) Associates, Washington, D.C.
TITLE	The foreign market potential for United States coal [Report to the U.S. Dept. of the Interior, Office of Coal Research
PUBLICATION	Washington : Office of Coal Research, Division of Economics and Marketing, 1963

ITEM 269	DESCRIPTION
AUTHOR	Jevons, William Stanley, 1835-1882
TITLE	The coal question; an inquiry concerning the progress of the Nation, and the probable exhaustion of our coal-mines, by W. Stanley Jevons. Edited by A. W. Flux
PUBLICATION	3d rev. ed. New York : A. M. Kelley, 1965

ITEM 270	DESCRIPTION
AUTHOR	Dole, Nathan Haskell, 1852-1935
TITLE	America in Spitsbergen; the romance of an Arctic coal-mine, with an introduction relating the history and describing the land and the flora and fauna of Spitsbergen, by Nathan Haskell Dole
PUBLICATION	Boston : Marshall Jones co., 1922

ITEM 271	DESCRIPTION
AUTHOR	Great Britain. National Coal Board
TITLE	Black diamonds: silver anniversary. National Coal Board: 25 years, 1947/72
PUBLICATION	[London : Great Britain Natl Coal Board 1972]

ITEM 272	DESCRIPTION
AUTHOR	Ashton, Thomas Southcliffe
TITLE	The coal industry of the eighteenth century, by T. S. Ashton and Joseph Sykes
PUBLICATION	[2d ed., with minor revisions and additions to the bibliography] New York : A. M. Kelley, 1967 [c1964]

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| ITEM 273 | DESCRIPTION |
| AUTHOR | Watkins, Harold Mostyn |
| TITLE | Coal and men; an economic and social study of the British & American coalfields, by Harold M. Watkins ... with a foreword by Professor John R. Commons |
| PUBLICATION | London : G. Allen & Unwin ltd. [1934] |
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| ITEM 274 | DESCRIPTION |
| AUTHOR | Taylor, Richard Cowling, 1789-1851 |
| TITLE | Statistics of coal: including mineral bituminous substances employed in arts and manufactures; with their geographical, geological and commercial distribution, and amount of production and consumption on the American continent. With incidental statistics of the iron manufacture |
| PUBLICATION | 2d ed., rev. and brought down to 1854, by S. S. Haldeman. Philadelphia : J. W. Moore, 1855 |
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| ITEM 275 | DESCRIPTION |
| AUTHOR | Macfarlane, James, 1819-1885 |
| TITLE | The coal-regions of America: their topography, geology, and development ...
By James Macfarlane, A.M. |
| PUBLICATION | New York : D. Appleton and Company, 1873 |
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| ITEM 276 | DESCRIPTION |
| AUTHOR | Eavenson, Howard Nicholas |
| TITLE | The first century and a quarter of American coal industry |
| PUBLICATION | Pittsburgh : Privately printed; (Baltimore, Waverly Pr.) [1942] |
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| ITEM 277 | DESCRIPTION |
| AUTHOR | Fritz, Wilbert Garold |
| TITLE | Regional shifts in the bituminous coal industry, with special reference to Pennsylvania, by Wilbert G. Fritz and Theodore A. Veenstra |
| PUBLICATION | Pittsburgh, Pa. : Bureau of Business Research, University of Pittsburgh [1935] |
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| ITEM 278 | DESCRIPTION |
| AUTHOR | Henderson, James Mitchell, 1929- |
| TITLE | The efficiency of the coal industry; an application of linear programming |
| PUBLICATION | Cambridge : Harvard University Press, 1958 |

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| ITEM 279 | DESCRIPTION |
| AUTHOR | Haynes, William Warren |
| TITLE | Nationalization in practice: the British coal industry |
| PUBLICATION | Boston : Division of Research, Graduate School of Business Administration, Harvard University, 1953 |
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| ITEM 280 | DESCRIPTION |
| AUTHOR | Hoffman, John Nathan |
| TITLE | Girard estate coal lands in Pennsylvania, 1801-1884 [by] John N. Hoffman |
| PUBLICATION | Washington : Smithsonian Institution Press, 1972 |
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| ITEM 281 | DESCRIPTION |
| AUTHOR | National Bureau of Economic Research |
| TITLE | Minimum price fixing in the bituminous coal industry [by] Waldo E. Fisher [and] Charles M. James. A report of the National Bureau of Economic Research, New York, in cooperation with the Industrial Research Department, Wharton School of Finance and Commerce, University of Pennsylvania, Philadelphia |
| PUBLICATION | Princeton : Princeton University Press, 1955 |
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| ITEM 282 | DESCRIPTION |
| AUTHOR | Moyer, Reed |
| TITLE | Competition in the midwestern coal industry |
| PUBLICATION | Cambridge : Harvard University Press, 1964 |
| | |
| ITEM 283 | DESCRIPTION |
| AUTHOR | James, Charles Mason, 1910- |
| TITLE | Measuring productivity in coal mining; a case study of multiple input measurement at the county level in Pennsylvania, 1919-1948 |
| PUBLICATION | Philadelphia : Industrial Research Dept., Wharton School of Finance and Commerce, University of Pennsylvania, 1952 |
| | |
| ITEM 284 | DESCRIPTION |
| AUTHOR | Harrington, George Bates |
| TITLE | Coal mining in Illinois |
| PUBLICATION | New York : Newcomen Society in North America, 1950 |
| | |
| ITEM 285 | DESCRIPTION |
| AUTHOR | Christenson, Carroll Lawrence, 1902- |
| TITLE | Economic redevelopment in bituminous coal; the special case of technological |

PUBLICATION advance in United States coal mines, 1930-1960
Cambridge : Harvard University Press, 1962

ITEM 286 DESCRIPTION
AUTHOR Coleman, McAlister, 1889-
TITLE Men and coal, by McAlister Coleman. Foreword by John Chamberlain
PUBLICATION New York, Toronto : Farrar & Rinehart, inc. [1943]

ITEM 287 DESCRIPTION
AUTHOR Baratz, Morton S.
TITLE The union and the coal industry
PUBLICATION New Haven : Yale University Press, 1955

ITEM 288 DESCRIPTION
AUTHOR Aurand, Ammon Monroe, 1895-
TITLE Historical account of the Mollie Maguires and James "McKenna" McParlan, detective extraordinary; origin, depredations and decay of a terrorist secret organization in the Pennsylvania coal fields during and following the civil war, by A. Monroe Aurand, Jr.
PUBLICATION Harrisburg, Pa. : Priv. print.: The Aurand press [c1940]

ITEM 289 DESCRIPTION
AUTHOR Wieck, Edward A.
TITLE The American Miners' Association; a record of the origin of coal miners' unions in the United States
PUBLICATION New York : Russell Sage Foundation, 1940

ITEM 290 DESCRIPTION
AUTHOR Roy, Andrew, 1834-
TITLE A history of the coal miners of the United States, from the development of the mines to the close of the anthracite strike of 1902, including a brief sketch of early British miners
PUBLICATION Columbus, Ohio : J. L. Trauger Printing Company [1903?]

ITEM 291 DESCRIPTION
AUTHOR Twentieth Century Fund. Labor Committee
TITLE How collective bargaining works, a survey of experience in leading American industries. Research director: Harry A. Millis, contributing authors: Donald Anthony [and others]
PUBLICATION New York : The Twentieth Century Fund, 1942

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| ITEM 292 | DESCRIPTION |
| AUTHOR | Hunt, Edward Eyre, 1885- ed. |
| TITLE | What the Coal Commission found; an authoritative summary by the staff, edited by Edward Eyre Hunt, F.G. Tryon, Joseph H. Willits, with a foreword by John Hays Hammond |
| PUBLICATION | Baltimore : The Williams & Wilkins Company, 1925 |
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| ITEM 293 | DESCRIPTION |
| AUTHOR | Trachtenberg, Alexander, 1884- |
| TITLE | The history of legislation for the protection of coal miners in Pennsylvania, 1824-1915, by Alexander Trachtenberg. Introduction by Prof. Henry W. Farnam |
| PUBLICATION | New York : International Publishers [1942] |
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| ITEM 294 | DESCRIPTION |
| AUTHOR | National Committee for the Defense of Political Prisoners |
| TITLE | Harlan miners speak; report on terrorism in the Kentucky coal fields. Prepared by members of the National Committee for the Defense of Political Prisoners: Theodore Dreiser [and others] |
| PUBLICATION | New York : Da Capo Press, 1970 [c1932] |
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| ITEM 295 | DESCRIPTION |
| AUTHOR | Dennis, Norman |
| TITLE | Coal is our life: an analysis of a Yorkshire mining community [by] Norman Dennis, Fernando Henriques [and] Clifford Slaughter |
| PUBLICATION | 2nd ed. London, New York : Tavistock Publications, 1969 |
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| ITEM 296 | DESCRIPTION |
| AUTHOR | Mooney, Fred, 1888-1952 |
| TITLE | Struggle in the coal fields; the autobiography of Fred Mooney. Edited by J. W. Hess |
| PUBLICATION | Morgantown : West Virginia University Library, 1967 |
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| ITEM 297 | DESCRIPTION |
| AUTHOR | Lloyd, Henry Demarest, 1847-1903 |
| TITLE | Men, the workers. With an introd. by Leon Stein & Philip Taft |
| PUBLICATION | New York : Arno, 1969 [c1909] |

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| ITEM 298 | DESCRIPTION |
| AUTHOR | Eckel, Edwin Clarence, 1875- |
| TITLE | Coal, iron and war; a study in industrialism, past, and future, by Edwin C. Eckel |
| PUBLICATION | New York : H. Holt, 1920 |
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| ITEM 299 | DESCRIPTION |
| AUTHOR | Beyer, Otto S., et al. |
| TITLE | Wertheim lectures on industrial relations, 1928 by Otto S. Beyer, Jr., Joseph H. Willits, John P. Frey, William M. Leiserson, John R. Commons, Elton Mayo, Frank W. Taussig |
| PUBLICATION | Cambridge : Harvard university press, 1929 |
| | |
| ITEM 300 | DESCRIPTION |
| AUTHOR | Van Kleeck, Mary, 1883- |
| TITLE | Miners and management; a study of the collective agreement between the United Mine Workers of America and the Rocky Mountain Fuel Company, and an analysis of the problem of coal in the United States, by Mary Van Kleeck |
| PUBLICATION | New York : Russell Sage Foundation, 1934 |
| | |
| ITEM 301 | DESCRIPTION |
| AUTHOR | Bouska, Vladimir |
| TITLE | Geochemistry of coal / by Vladimir Bouska ; [translation Helena Zarubova] |
| PUBLICATION | Amsterdam ; New York : Elsevier Scientific Pub. Co. : distribution for the U.S.A. and Canada, Elsevier North-Holland, Inc., 1981 |
| | |
| ITEM 302 | DESCRIPTION |
| AUTHOR | National Research Council |
| TITLE | Surface mining : soil, coal, and society : a report / prepared by the Committee on Soil as a Resource in Relation to Surface Mining for Coal, Board on Mineral and Energy Resources, Commission on Natural Resources, National Research Council. |
| PUBLICATION | Washington, D.C. : National Academy Press, 1981 |
| | |
| ITEM 303 | DESCRIPTION |
| AUTHOR | United States. Coal Mines Administration |
| TITLE | A medical survey of the bituminous-coal industry. Report of the Coal mines administration |
| PUBLICATION | A medical survey of the bituminous-coal industry. Report of the Coal mines administration |

ITEM 304 DESCRIPTION
AUTHOR Institute on Scientific Problems Relevant to Coal Utilization (1977 : West Virginia University)
TITLE Scientific problems of coal utilization [microform :] proceedings of a conference at West Virginia University, Morgantown, West Virginia, May 23-25, 1977 / edited by Bernard R. Cooper ; sponsored by West Virginia University and Division of Materials and Exploratory Research, Fossil Energy, Energy Research and Development Administration
PUBLICATION Oak Ridge, Tenn. : Technical Information Center, U.S. Dept. of Energy ; Springfield, Va. : available from National Technical Information Service, U.S. Dept. of Commerce, 1978

ITEM 305 DESCRIPTION
AUTHOR Banks, Joseph Ambrose, comp.
TITLE Studies in British society. Edited by J. A. Banks
PUBLICATION New York : Crowell [1968]

ITEM 306 DESCRIPTION
AUTHOR Munn, Robert F.
TITLE The coal industry in America; a bibliography and guide to studies [by] Robert F. Munn
PUBLICATION Morgantown : West Virginia University Library, 1965

ITEM 307 DESCRIPTION
AUTHOR Elliott, Martin A.
TITLE Chemistry of coal utilization : second supplementary volume / prepared under the guidance of the Committee on Chemistry of Coal Utilization ; edited by Martin A. Elliott
PUBLICATION New York : Wiley, c1981

ITEM 308 DESCRIPTION
AUTHOR Lowry, H. H., ed.
TITLE Chemistry of coal utilization : Supplementary volume / H. H. Lowry, editor ; prepared by the Committee on Chemistry of Coal, Division of Chemistry and Chemical Technology, National Academy of Science-National Research Council
PUBLICATION New York : Wiley, 1963

ITEM 309 DESCRIPTION

AUTHOR
 TITLE Chemistry of coal utilization
 PUBLICATION New York, Wiley [1945]

ITEM 310 DESCRIPTION
 AUTHOR
 TITLE An Answer to the coal-traders and consumption case [microform]
 PUBLICATION [London? : s.n., 168-?]

ITEM 311 DESCRIPTION
 AUTHOR National Research Council. Committee on Mineral Resources and the Environment
 TITLE Mineral resources and the environment. Supplementary report : a report / prepared by the Committee on Mineral Resources and the Environment (COMRATE), Commission on Natural Resources, National Research Council
 PUBLICATION Washington, : National Academy of Sciences, 1975-1976

ITEM 312 DESCRIPTION
 AUTHOR Striner, Herbert E.
 TITLE An analysis of the bituminous coal industry in terms of total energy supply and a synthetic oil program / Herbert E. Striner
 PUBLICATION New York : Arno Press, 1979

ITEM 313 DESCRIPTION
 AUTHOR Zimmerman, Martin B.
 TITLE The U.S. coal industry : the economics of policy choice / Martin B. Zimmerman
 PUBLICATION Cambridge, Mass. : MIT Press, c1981

ITEM 314 DESCRIPTION
 AUTHOR Grainger, Leslie
 TITLE Coal utilisation : technology, economics and policy / L. Grainger and J. Gibson.
 PUBLICATION New York : Halsted Press, 1981

ITEM 315 DESCRIPTION
 AUTHOR Mullen, Alexander, trans.
 TITLE [Chemierohstoffe aus Kohle. English.] Chemical feedstocks from coal / edited by Jurgen Falbe ; [authors] E. Ahland ... [et al.] ; translated by Alexander Mullen

PUBLICATION New York : Wiley, c1982

ITEM 316	DESCRIPTION
AUTHOR	Harvey, Curtis E.
TITLE	The economics of Kentucky coal / Curtis E. Harvey
PUBLICATION	Lexington : University Press of Kentucky, c1977

ITEM 317	DESCRIPTION
AUTHOR	Gluskoter, H. J., et al.
TITLE	Trace elements in coal [microform :] occurrence and distribution / by H. J. Gluskoter .. [et al.]
PUBLICATION	Urbana : Illinois State Geological Survey, 1977

ITEM 318	DESCRIPTION
AUTHOR	Blake, J. Coleman
TITLE	Analysis of projected vs. actual costs for nuclear and coal-fired power plants [microform] Coleman Blake, David Cox, Willard Fraize
PUBLICATION	Oak Ridge, Tenn. : Energy Research and Development Administration, Springfield Va. for sale by the National Technical Information Service, 1976

ITEM 319	DESCRIPTION
AUTHOR	Institute on Scientific Problems Relevant to Coal Utilization (1977 : West Virginia University)
TITLE	Scientific problems of coal utilization [microform] proceedings of a conference at West Virginia University, Morgantown, West Virginia, May 23-25, 1977 / edited by Bernard R. ; sponsored by West Virginia University and Division of Materials and Exploratory Research, Fossil Energy, Energy Research and Development Administration
PUBLICATION	Oak Ridge, Tenn. : Technical Information Center, U.S. Dept. of Energy ; Springfield, Va. : available from National Technical Information Service, U.S. Dept. of Commerce, 1978

ITEM 320	DESCRIPTION
AUTHOR	Blaustein, Bernard D., Bradley C. Bockrath, and Sidney Friedman, eds.
TITLE	New approaches in coal chemistry : based on a symposium sponsored by the Pittsburgh Section of the American Chemical Society at the 12 th central regional meeting, Pittsburgh, PA, November 12-14, 1980 / Bernard D. Blaustein, Bradley C. Bockrath and Sidney Friedman, editors
PUBLICATION	Washington, D.C. : The Society, 1981

- ITEM 321
AUTHOR Whitehurst, D. Duayne (Darrell Duayne), 1938-
TITLE Coal liquefaction : the chemistry and technology of thermal processes / D. Duayne Whitehurst, Thomas O. Mitchell, Malvina Farcasiu ; with the assistance of Nancy H. Lin
PUBLICATION New York : Academic Press, 1980
- ITEM 322
AUTHOR Corbin, David
TITLE Life, work, and rebellion in the coal fields : the southern West Virginia miners, 1880-1922 / David Alan Corbin
PUBLICATION Urbana : University of Illinois Press, c1981
- ITEM 323
AUTHOR Lamb, George H.
TITLE Underground coal gasification / George H. Lamb
PUBLICATION Park Ridge, N.J. : Noyes Data Corp., 1977
- ITEM 324
AUTHOR Chemical Engineering Progress
TITLE Coal processing technology / prepared by editors of Chemical engineering progress
PUBLICATION New York : American Institute of Chemical Engineers, c1974-
- ITEM 325
AUTHOR Harrison, Royden, ed.
TITLE Independent collier : the coal miner as archetypal proletarian reconsidered / edited by Royden Harrison
PUBLICATION New York : St. Martin's Press, 1978
- ITEM 326
AUTHOR Pennsylvania. Bureau of Topographic and Geologic Survey
TITLE Coal resources of Pennsylvania / Arthur A. Socolow, ... [et al.]
PUBLICATION Harrisburg : The Bureau, 1980
- ITEM 327
AUTHOR Gordon, Richard L., 1934-
TITLE Coal in the U.S. energy market : history and prospects / Richard L. Gordon
PUBLICATION Lexington, Mass. : Lexington Books, c1978

- ITEM 328
AUTHOR Johnson, Charles J.
TITLE Coal demand in the electric utility industry, 1946-1990 / Charles J. Johnson, with a new pref. by the author
PUBLICATION New York : Arno Press, 1979
- ITEM 329
AUTHOR Johnson, James P., 1937-
TITLE A "New Deal" for soft coal : the attempted revitalization of the bituminous coal industry under the New Deal / James P. Johnson ; with a new pref. by the author
PUBLICATION New York : Arno Press, 1979, c1968
- ITEM 330
AUTHOR Larsen, John W., ed.
TITLE Organic chemistry of coal : a symposium / sponsored by the Division of Fuel Chemistry at the 174th meeting of the American Chemical Society, Chicago, Illinois, August 29-September 1, 1977 ; John W. Larsen, editor
PUBLICATION Washington : American chemical Society, 1978
- ITEM 331
AUTHOR John, Angela V.
TITLE By the sweat of their brow : women workers at Victorian coal mines / Angela V. John
PUBLICATION London : Croom Helm, c1980
- ITEM 332
AUTHOR Anderson, Larry LaVon
TITLE Synthetic fuels from coal : overview and assessment / Larry L. Anderson, David A. Tillman
PUBLICATION New York : Wiley, c1979
- ITEM 333
AUTHOR Pitt, G. J., and G. R. Millward, eds.
TITLE Coal and modern coal processing : an introduction / edited by G. J. Pitt and G. R. Millward
PUBLICATION London ; New York : Academic Press, 1979
- ITEM 334
AUTHOR Leonard, Joseph W., ed. [et al.]

TITLE Coal preparation. Editors: Joseph W. Leonard and David R. Mitchell.
Associate editors: Kenneth K. Humphreys [and others]
PUBLICATION 3d ed. New York, American Institute of Mining, Metallurgical, and
Petroleum Engineers, 1968

ITEM 335 DESCRIPTION
AUTHOR Toole, Kenneth Ross, 1920-
TITLE The rape of the Great Plains : Northwest America, cattle and coal / K. Ross
Toole
PUBLICATION 1st ed. Boston : Little, Brown, and Co., c1976

ITEM 336 DESCRIPTION
AUTHOR Massey, Lester G., ed.
TITLE Coal gasification; a symposium sponsored by the Division of Fuel Chemistry
at the 165th meeting of the American Chemical Society, Dallas, Texas, April
9-10, 1973. Lester G. Massey, editor
PUBLICATION Washington, American Chemical Society, 1974

ITEM 337 DESCRIPTION
AUTHOR Benson, J., and R. G. Neville, eds.
TITLE Studies in the Yorkshire coal industry / J. Benson, R. G. Neville, editors
PUBLICATION Manchester, [Eng.] : Manchester University Press ; Fairfield, N. J. : Augustus
M. Kelley, c1976

ITEM 338 DESCRIPTION
AUTHOR FMC Corporation. Engineered Systems Division
TITLE Accident cost indicator model to estimate costs to industry and society from
work-related injuries and deaths in underground coal mining / prepared for
United States, Department of the Interior, Bureau of Mines by FMC
Corporation, Engineered Systems Division
PUBLICATION Springfield, Va. : U. S. National Technical Information Service, [197-]

ITEM 339 DESCRIPTION
AUTHOR Lee, Howard Burton, 1879-
TITLE Bloodletting in Appalachia; the story of West Virginia's four major mine wars
and other thrilling incidents of its coal fields, by Howard B. Lee
PUBLICATION Morgantown, West Virginia University, 1969

ITEM 340 DESCRIPTION
AUTHOR Muschett, F. Douglas

TITLE Coal development in Montana : economic and environmental impacts / by F. Douglas Muschett
 PUBLICATION Ann Arbor, Mich. : Department of Geography, University of Michigan, 1977

ITEM 341 DESCRIPTION
 AUTHOR Geiger, Reed G.
 TITLE The Anzin Coal Company, 1800-1833 : big business in the early stages of the French Industrial Revolution / Reed G. Geiger
 PUBLICATION Newark : University of Delaware ; Philadelphia : distributed by Temple University Press, 1974

ITEM 342 DESCRIPTION
 AUTHOR Lindenau, N. I., ed.
 TITLE Problems of safety in coal mines Editor: N. I. Lindenau. Translated from Russian
 PUBLICATION New Delhi Published for the U. S. Dept. of the Interior, Bureau of Mines and the National Science Foundation, Washington, D. C. by the Indian National Scientific Documentation Centre 1975

ITEM 343 DESCRIPTION
 AUTHOR Bloch, Louis, 1890-
 TITLE Labor agreements in coal mines; a case study of the administration of agreements between miners' and operators' organizations in the bituminous coal mines of Illinois, by Louis Bloch
 PUBLICATION New York, Russell Sage foundation, 1931

ITEM 344 DESCRIPTION
 AUTHOR Bell, Herbert Charles, 1868- ed.
 TITLE History of Northumberland County, Pennsylvania : including ... portraits and biographies of pioneers and representative citizens, etc. / edited by Herbert C. Bell
 PUBLICATION Evansville, Ind. : Unigraphic, 1975

ITEM 345 DESCRIPTION
 AUTHOR Doyle, William S.
 TITLE Strip mining of coal : environmental solutions / William S. Doyle
 PUBLICATION Park Ridge, N.J. : Noyes Data Corp., 1976

ITEM 346 DESCRIPTION
 AUTHOR Rochester, Anna, 1880-

TITLE Labor and coal
PUBLICATION New York, International Publishers [c1931]

ITEM 347 DESCRIPTION
AUTHOR Coal Convention, Pittsburgh, 1973
TITLE Report on coal technology, 1973
PUBLICATION [Washington, American Mining Congress] 1973

ITEM 348 DESCRIPTION
AUTHOR Vecsey, George
TITLE One sunset a week; the story of a coal miner
PUBLICATION [1st ed.] New York, Saturday Review Press [1974]

ITEM 349 DESCRIPTION
AUTHOR Korson, George Gershon, 1899- ed.
TITLE Coal dust on the fiddle; songs and stories of the bituminous industry, by
George Korson
PUBLICATION Philadelphia, University of Pennsylvania press, 1943

ITEM 350 DESCRIPTION
AUTHOR Gordon, Richard L 1934-
TITLE U.S. coal and the electric power industry / Richard L. Gordon
PUBLICATION [Baltimore] : Published for Resources for the Future, by the Johns Hopkins
University Press, [1975]

ITEM 351 DESCRIPTION
AUTHOR Fairfield, Roy P., comp.
TITLE Humanizing the workplace / Roy P. Fairfield, editor
PUBLICATION Buffalo, N.Y. : Prometheus Books, [1974]

ITEM 352 DESCRIPTION
AUTHOR United States. Federal Energy Administration
TITLE Project independence
PUBLICATION Washington, for sale by the Superintendent of Documents, U.S. Govt. Print.
Off., 1974

ITEM 353 DESCRIPTION
AUTHOR National Fire Protection Association
TITLE Dust explosion prevention: coal preparation plants; an American national

standard
PUBLICATION Boston, Mass., 1971

ITEM 354	DESCRIPTION
AUTHOR	Hess, R. W. [et al.]
TITLE	An analysis of the cost, schedule, and performance of the baseline SRC-I commercial demonstration plant / R.W. Hess ... [et al.]
PUBLICATION	Santa Monica, CA : Rand Corp., [1983]

ITEM 355	DESCRIPTION
AUTHOR	Rightmire, Craig T., Greg E. Eddy, and James N. Kirr, eds.
TITLE	Coalbed methane resources of the United States / edited by Craig T. Rightmire, Greg E. Eddy, James N. Kirr
PUBLICATION	Tulsa, Okla., U.S.A. : American Association of Petroleum Geologists, 1984

ITEM 356	DESCRIPTION
AUTHOR	Bretz, George M., 1842-1895
TITLE	George M. Bretz, photographer in the mines / Tom Beck
PUBLICATION	[Catonsville] : University of Maryland Baltimore County Library, c1977

ITEM 357	DESCRIPTION
AUTHOR	Wilson, Richard [et al.]
TITLE	Health effects of fossil fuel burning : assessment and mitigation / Richard Wilson ... [et al.]
PUBLICATION	Cambridge, MA : Ballinger Pub. Co., c1980

ITEM 358	DESCRIPTION
AUTHOR	Bolten, J. G.
TITLE	Alternative models for risk assessment of toxic emissions / J. G. Bolten...[et al.]
PUBLICATION	Santa Monica, Calif. : Rand publication series, 1985

ITEM 359	DESCRIPTION
AUTHOR	Peterson, Bill
TITLE	Coaltown revisited; an Appalachian notebook
PUBLICATION	Chicago : Regnery [1972]

ITEM 360	DESCRIPTION
AUTHOR	International Labour Office

TITLE 6th international report on the prevention and suppression of dust in mining, tunnelling and quarrying, 1973-1977 / International Labour Office
 PUBLICATION Geneva : The Office, 1982

ITEM 361 DESCRIPTION
 AUTHOR Woolley, Bryan
 TITLE We be here when the morning comes / text by Bryan Woolley ; photos. by Ford Reid ; foreword by Robert Coles
 PUBLICATION Lexington : University Press of Kentucky, c1975

ITEM 362 DESCRIPTION
 AUTHOR DeKok, David
 TITLE Unseen danger : a tragedy of people, government, and the Centralia Mine fire / by David DeKok
 PUBLICATION Philadelphia : University of Pennsylvania Press, 1986

ITEM 363 DESCRIPTION
 AUTHOR Dillon, Lacy A.
 TITLE They died in the darkness / by Lacy A. Dillon
 PUBLICATION Parsons, W. Va. : McClain Print. Co., 1976

ITEM 364 DESCRIPTION
 AUTHOR Warriner, Jesse B.
 TITLE My years in anthracite / J.B. Warriner
 PUBLICATION Lansford, Pa. : [s.n.], c1951

ITEM 365 DESCRIPTION
 AUTHOR Nicolls, William Jasper, 1854-1916
 TITLE The story of American coals. by William Jasper Nicolls...
 PUBLICATION Philadelphia, J. B. Lippincott, 1897 [1896]

ITEM 366 DESCRIPTION
 AUTHOR Fey, Arthur Willard, 1893-
 TITLE Buried black treasure; the story of Pennsylvania anthracite, by Carl Corlsen [pseud.]
 PUBLICATION Bethlehem, Pa., "Buried black treasure" [1954]

ITEM 367 DESCRIPTION
 AUTHOR Sawyer, Stephen Gerard

TITLE Computerized slope stability analysis of refuse piles and impoundments by the simplified Bishop method / by Stephen Gerard Sawyer, Daniel S. Mazzei, and Kelvin K Wu
 PUBLICATION [Arlington, Va.] : Dept. of the Interior, Mining Enforcement and Safety Administration, 1978

ITEM 368 DESCRIPTION
 AUTHOR Oitto, Richard H.
 TITLE Study on underground auger mining hazards / By R. H. Oitto and R. R. McLellan
 PUBLICATION [Washington] : Mining Enforcement and Safety Administration, [1975]

ITEM 369 DESCRIPTION
 AUTHOR National Symposium on the Control of Coal Mine Drainage, Pittsburgh, 1962
 TITLE Proceedings
 PUBLICATION [Harrisburg] Division of Sanitary Engineering, Dept. of Health, Commonwealth of Pennsylvania [1962?]

ITEM 370 DESCRIPTION
 AUTHOR Jackson, Carlton
 TITLE The dreadful month / Carlton Jackson ; with a foreword by Harry M. Caudill
 PUBLICATION Bowling Green, Ohio : Bowling Green University Popular Press, c1982

ITEM 371 DESCRIPTION
 AUTHOR Morley, Lloyd A.
 TITLE Materials suitable for use in explosion-proof enclosures [microform /] Lloyd A. Morley, Frederick, C. Trutt ; [prepared for] Dept. of the Interior, Bureau of Mines
 PUBLICATION University Park : Dept. of Mineral Engineering, Pennsylvania State University, 1976

ITEM 372 DESCRIPTION
 AUTHOR Pierenkemper, Toni
 TITLE Die westfälischen Schwerindustriellen 1852-1913 : soziale Struktur u. unternehmer. Erfolg / von Toni Pierenkemper
 PUBLICATION Gottingen : Vandenhoeck und Ruprecht, 1979

ITEM 373 DESCRIPTION
 AUTHOR Pennsylvania. Governor's Science Advisory Committee. Panel on Anthracite Mining

TITLE Open-pit anthracite mining : recommendations on a feasibility analysis : a report to Governor Milton Shapp and the Governor's Energy Council / by the Governor's Science Advisory Committee, Panel on Anthracite Mining
 PUBLICATION [Harrisburg] : The Committee, 1976

ITEM 374 DESCRIPTION
 AUTHOR National Conference on Medicine and the Federal Coal Mine Health and Safety Act of 1969 (1970 : Washington, D.C.)
 TITLE Papers and proceedings
 PUBLICATION [Washington? 1970]

ITEM 375 DESCRIPTION
 AUTHOR Broehl, Wayne G.
 TITLE The Molly Maguires [by] Wayne G. Broehl, Jr.
 PUBLICATION Cambridge : Harvard University Press, 1964

ITEM 376 DESCRIPTION
 AUTHOR Longazel, Thomas W.
 TITLE The magic reed of the woodpecker / Thomas W. Longazel
 PUBLICATION Bryn Mawr, Pa. : Dorrance, c1984

ITEM 377 DESCRIPTION
 AUTHOR Brophy, John
 TITLE A miner's life
 PUBLICATION Madison, University of Wisconsin Press, 1964

ITEM 378 DESCRIPTION
 AUTHOR Lunt, Richard D.
 TITLE Law and order vs the miners, West Virginia, 1907-1933 / Richard D. Lunt
 PUBLICATION Hamden, Conn. : Archon Books, 1979

ITEM 379 DESCRIPTION
 AUTHOR Gitelman, Howard M.
 TITLE Legacy of the Ludlow Massacre : a chapter in American industrial relations / H.M. Gitelman
 PUBLICATION Philadelphia : University of Pennsylvania Press, c1988

ITEM 380 DESCRIPTION
 AUTHOR Calzonetti, Frank J. [et al.]

TITLE Power from the Appalachians : a solution to the Northeast's electricity problems? / Frank J. Calzonetti ... [et al.]
 PUBLICATION New York : Greenwood Press, 1989

ITEM 381 DESCRIPTION
 AUTHOR Tomkeieff, S. I. (Sergei Ivanovich), 1892-1968
 TITLE Coals and bitumens and related fossil carbonaceous substances; nomenclature and classification
 PUBLICATION London, Pergamon Press, 1954

ITEM 382 DESCRIPTION
 AUTHOR Nicolls, William Jasper, 1854-1916
 TITLE The story of American coals. by William Jasper Nicolls...
 PUBLICATION Philadelphia, J. B. Lippicott, 1897 [1896]

ITEM 383 DESCRIPTION
 AUTHOR Brestensky, Dennis F., comp. [et al.]
 TITLE Patch/work voices : the culture and lore of a mining people / compiled and written by Dennis F. Brestensky, Evelyn A. Hovanec, Albert N. Skomra
 PUBLICATION Pittsburgh : University Center for International Studies, University of Pittsburgh, c1978

ITEM 384 DESCRIPTION
 AUTHOR Powell, Howard Benjamin, 1937-
 TITLE Philadelphia's first fuel crisis : Jacob Cist and the developing market for Pennsylvania anthracite / H. Benjamin Powell
 PUBLICATION University Park : Pennsylvania State University Press, c1978

ITEM 385 DESCRIPTION
 AUTHOR Anthracite Board of Conciliation
 TITLE Report of Anthracite Board of Conciliation
 PUBLICATION [v.1]- [1903/06]- Scranton [etc.] 1908-

ITEM 386 DESCRIPTION
 AUTHOR Barendse, Michael A.
 TITLE Social expectations and perception : the case of the Slavic anthracite workers / Michael A. Barendse
 PUBLICATION University Park : Pennsylvania State University Press, c1981

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| ITEM 387 | DESCRIPTION |
| AUTHOR | Tomkeieff, S. I. (Sergei Ivanovich), 1892-1968 |
| TITLE | Coals and bitumens and related fossil carbonaceous substances; nomenclature and classification |
| PUBLICATION | London, Pergamon Press, 1954 |
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| ITEM 388 | DESCRIPTION |
| AUTHOR | Kehoe, John, d. 1878, defendant |
| TITLE | Report of the case of the Commonwealth vs. John Kehoe et al., members of the Ancient Order of Hibernians, commonly known as "Molly Maguires". Indicted in the Court of Quarter Sessions of the Peace, for Schuylkill County, Penn., for an aggravated assault and battery with intent to kill Wm. M. Thomas. With the testimony and arguments of counsel in full stenographically reported by R.A. West |
| PUBLICATION | Pottsville, Miners" Journal Book and Job Rooms, 1876 |
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| ITEM 389 | DESCRIPTION |
| AUTHOR | Nicolls, William Jasper, 1854-1916 |
| TITLE | The story of American coals. by William Jasper Nicolls... |
| PUBLICATION | Philadelphia, J. B. Lippincott, 1897 [1896] |
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| ITEM 390 | DESCRIPTION |
| AUTHOR | Hudson Coal Company |
| TITLE | The story of anthracite / prepared and published by the Hudson Coal Company |
| PUBLICATION | New York : the Company, 1932 |
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| ITEM 391 | DESCRIPTION |
| AUTHOR | |
| TITLE | Out of the dark |
| PUBLICATION | Barnesboro, Pa. : Northern Cambria High School, 1975- |
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| ITEM 392 | DESCRIPTION |
| AUTHOR | Nearing, Scott, 1883- |
| TITLE | Anthracite; an instance of natural resource monopoly |
| PUBLICATION | Freeport, N.Y., Books for Libraries Press [1971] |
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| ITEM 393 | DESCRIPTION |
| AUTHOR | Perry, Charles R. |
| TITLE | Collective bargaining and the decline of the United Mine Workers / by |

- PUBLICATION Charles R. Perry
Philadelphia, Pa., U.S.A. : Industrial Research Unit, the Wharton School,
University of Pennsylvania, c1984
- ITEM 394 DESCRIPTION
AUTHOR Lewis, Arthur H., 1906-
TITLE Lament for the Molly Maguires [by] Arthur H. Lewis
PUBLICATION [1st ed.] New York, Harcourt, Brace & World [1964]
- ITEM 395 DESCRIPTION
AUTHOR White, Josiah, 1781-1850
TITLE Josiah White"s history, given by himself
PUBLICATION [Philadelphia, Press of G.H. Buchanan Company, 1909?]
- ITEM 396 DESCRIPTION
AUTHOR Humes, Harry
TITLE Robbing the pillars / Harry Humes
PUBLICATION 1st ed. Easthampton, MA : Adastr Press, c1984
- ITEM 397 DESCRIPTION
AUTHOR Bimba, Anthony
TITLE The Molly Maguires
PUBLICATION New York, International Publishers [1970, c1932]
- ITEM 398 DESCRIPTION
AUTHOR Rohaly, Kathleen Ann
TITLE A study to determine the effect of alienation on cooperation at the Renton and
McElroy mines / by Kathleen Ann Rohaly
PUBLICATION 1981
- ITEM 399 DESCRIPTION
AUTHOR Samuel, Raphael, Barbara Bloomfield, and Guy Boanas, eds.
TITLE The Enemy within : pit villages and the miners" strike of 1984-5 / edited by
Raphael Samuel, Barbara Bloomfield, Guy Boanas
PUBLICATION London ; New York : Routledge & Kegan Paul, 1986
- ITEM 400 DESCRIPTION
AUTHOR Mauchline, Robert, 1837-1899
TITLE The mine foreman"s handbook of practical and theoretical information on the

opening, ventilating, and working of collieries / by Robert Mauchline
 PUBLICATION 3d ed. thoroughly rev. and enl. by F. Ernest Brackett. Philadelphia : H.C. Baird & Co., 1905

ITEM 401 DESCRIPTION
 AUTHOR Hughes, F. W. (Francis Wade), 1817-1885
 TITLE Commonwealth versus Patrick Hester, Patrick Tully, and Peter McHugh : tried and convicted of the murder of Alexander W. Rea, argument of / F. W. Hughes for Commonwealth, at Bloomsburg, Pa., February 23 & 24, 1877, stenographically reported by R. A. West
 PUBLICATION Philadelphia : G. V. Town & sons, [1877?]

ITEM 402 DESCRIPTION
 AUTHOR
 TITLE Della torba e del carbon-fossile [microform]
 PUBLICATION Milano : [s. n.], 1775

ITEM 403 DESCRIPTION
 AUTHOR Buntingen, Johann Philipp
 TITLE Sylva subterranea, oder, Vortreffliche Nutzbarkeit des unterirdischen Waldes der Stein-Kohlen [microform :] wie die selben von Gott denen Menschen zu gut and denenjenigen Orthen : wo nicht viel Holtz wachset, aus Gnaden verliehen und mitgetheilet worden : auff hoher patronen Befeyl und Curiositat entworffen und zum Druck befördert / von Johann Philipp Buntingen
 PUBLICATION Halle : Gedruckt von C. Salfelden, 1693

ITEM 404 DESCRIPTION
 AUTHOR Karsten, C. J. B. (Carl Johann Bernhard), 1782-1853
 TITLE Untersuchungen uber die kohligen Substanzen des Mineralreichs überhaupt [microform :] und uber die Zusammensetzung der in der Preussischen Monarchie verkommenden Steinkohlen insbesondere / von C.J.G. Karsten
 PUBLICATION Berlin : G. Reimer, 1826

ITEM 405 DESCRIPTION
 AUTHOR Faujas de Saint-Fond, Barthelemy, 1741-1819
 TITLE Essai sur le goudron du charbon de terre [microform :] sur la maniere de l'employer pour carener les Vaisseux, & celle d'un faire usage dans plusieurs arts : sur les differens produits de ce combustible fossile tel que le bitume solide, l'huile minerale, le naphte, l'alkali volatil, l'eau styptique propre a la preparation des cuirs, le noir de fume, le coaks ou charbon epure : precede de recherches sur l'origine & les differentes sortes de charbons de terre / par B.

PUBLICATION Faujas
Paris : Imprimerie Royale, 1790

ITEM 406	DESCRIPTION
AUTHOR	Johnson, Walter Rogers, 1794-1852
TITLE	Notes on the use of anthracite in the manufacture of iron. With some remarks on its evaporating power. By Walter R. Johnson
PUBLICATION	Boston, C. C. Little and J. Brown, 1841

ITEM 407	DESCRIPTION
AUTHOR	Bulmer, Martin, ed.
TITLE	Mining and social change : Durham County in the twentieth century / edited by Martin Bulmer
PUBLICATION	London : Croom Helm, c1978

ITEM 408	DESCRIPTION
AUTHOR	Rupp, Israel Daniel, 1803-1878
TITLE	History of Northampton, Lehigh, Monroe, Carbon, and Schuylkill counties: containing a brief history of the first settlers, topography of townships, notices of leading events, incidents, and interesting facts in the early history of these counties: with an appendix, containing matters of deep interest. Comp. from various authentic sources by I. Daniel Rupp
PUBLICATION	Harrisburg, Pa., Hickok & Cantine, 1845

ITEM 409	DESCRIPTION
AUTHOR	Papanikolas, Zeese
TITLE	Buried unsung : Louis Tikas and the Ludlow Massacre / Zeese Papanikolas ; foreword by Wallace Steiner
PUBLICATION	Salt Lake City, Utah : University of Utah Press, 1982

ITEM 410	DESCRIPTION
AUTHOR	England and Wales. Sovereign (1660-1685 : Charles II)
TITLE	At the Court at Whitehall the third day of May, 1672 [microform :] present the Kings Most Excellent Majesty ...
PUBLICATION	[London] : Printed by Andrew Clark, 1672.

ITEM 411	DESCRIPTION
AUTHOR	Mainiero, Richard J.
TITLE	Evaluation of a sheathed permissible explosive charge for open shooting in flammable atmospheres [microform /] by Richard J. Mainiero and J. Edmund

PUBLICATION Hay
Pgh. [i.e. Pittsburgh], Pa. : U.S. Dept. of the Interior, Bureau of Mines, [1982]

ITEM 412 DESCRIPTION
AUTHOR Institut gornogo dela im. A.A. Skochinskogo
TITLE Mechanical properties of rocks [by] M. M. Protod'yakonov and others.
Translated from Russian [by IPST staff]
PUBLICATION Jerusalem, Israel Program for Scientific Translations, 1969

ITEM 413 DESCRIPTION
AUTHOR
TITLE Draft environment impact statement : Seward Generating Station Unit 7,
Indiana and Westmoreland Counties Pennsylvania / [prepared by the
Pittsburgh District, U.S. Army Corps of Engineers]
PUBLICATION [Pittsburgh, Pa.] : U.S. Army Corps of Engineers, Pittsburgh District, 1981

ITEM 414 DESCRIPTION
AUTHOR Spencer, Elaine Glovka, 1939-
TITLE Management and labor in imperial Germany : Ruhr industrialists as
employers, 1896-1914 / Elaine Glovka Spencer
PUBLICATION New Brunswick, N.J. : Rutgers University Press, c1984

ITEM 415 DESCRIPTION
AUTHOR Payne, K. R., ed.
TITLE Chemicals from coal : new developments / edited by K.R. Payne
PUBLICATION Oxford : Published for the Society of Chemical Industry by Blackwell, 1985

ITEM 416 DESCRIPTION
AUTHOR Haigh, Martin J., 1950-
TITLE Evolution of slopes on artificial landforms--Blaenavon, U.K. / by Martin J.
Haigh
PUBLICATION Chicago : University of Chicago, Dept. of Geography, 1978

ITEM 417 DESCRIPTION
AUTHOR Platt, William Greenough
TITLE Report of progress in Indiana county, by W. G. Platt
PUBLICATION Harrisburg, Pub. by the Board of Commissioners for the Second Geological
Survey, 1878

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| ITEM 418 | DESCRIPTION |
| AUTHOR | International Labour Office |
| TITLE | 5th international report on the prevention and suppression of dust in mining, tunneling and quarrying, 1968-1972 |
| PUBLICATION | Geneva : The Office, 1977 |
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| ITEM 419 | DESCRIPTION |
| AUTHOR | Haigh, Martin J., 1950- |
| TITLE | Evolution of slopes on artificial landforms--Blaenavon, U.K. / by Martin J. Haigh |
| PUBLICATION | Chicago : University of Chicago, Dept. of Geography, 1978 |
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| ITEM 420 | DESCRIPTION |
| AUTHOR | Wellington, Stephen Newcombe |
| TITLE | Low temperature carbonisation, by S. N. Wellington and W. R. Cooper. With 4 folding tables and 66 illustrations, including 10 plates |
| PUBLICATION | London : C. Griffin and company, limited, 1924 |
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| ITEM 421 | DESCRIPTION |
| AUTHOR | Gauger, Alfred William, 1892- |
| TITLE | Petrographic characteristics, plastic and carbonizing properties of Chilean coals [by] A. W. Gauger [and] Americo Albala |
| PUBLICATION | [State College : Pennsylvania State College] 1948 |
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| ITEM 422 | DESCRIPTION |
| AUTHOR | Schora, Frank C., ed. |
| TITLE | Fuel gasification; a symposium. Frank C. Schora, Jr., symposium chairman |
| PUBLICATION | Washington : American Chemical Society, 1967 |
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| ITEM 423 | DESCRIPTION |
| AUTHOR | United States Steel Corporation. Tennessee Coal and Iron Division |
| TITLE | Biography of a business |
| PUBLICATION | [n. p., 1960] |
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| ITEM 424 | DESCRIPTION |
| AUTHOR | Haynes, Williams, 1886- |
| TITLE | Dyes made in America, 1915-1940 |
| PUBLICATION | Bound Brook, N.J. : Calco chemical division, American cyanamid company, [1941?] |

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| ITEM 425 | DESCRIPTION |
| AUTHOR | Caudill, Harry M., 1922- |
| TITLE | Theirs be the power : the moguls of eastern Kentucky / Harry M. Caudill |
| PUBLICATION | Urbana : University of Illinois Press, c1983 |
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| ITEM 426 | DESCRIPTION |
| AUTHOR | Bodnar, John E., 1944- |
| TITLE | Anthracite people : families, unions, and work, 1900-1940 / John Bodnar |
| PUBLICATION | Harrisburg : Commonwealth of Pennsylvania, Pennsylvania Historical and Museum Commission, 1983. |
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| ITEM 427 | DESCRIPTION |
| AUTHOR | United Mine Workers of America. Welfare and Retirement Fund |
| TITLE | Report for the year ending June 30 |
| PUBLICATION | 1952 1973 74. Washington, D.C. : United Mine Workers of America Welfare and Retirement Fund, c1952 1974 |
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| ITEM 428 | DESCRIPTION |
| AUTHOR | European Coal and Steel Community. High Authority |
| TITLE | General report on the activities of the Community |
| PUBLICATION | 1st 15th; 1952/53 1966/67. Luxembourg, The Community |
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| ITEM 429 | DESCRIPTION |
| AUTHOR | Arnot, Robert Page, 1890 |
| TITLE | The miners; a history of the Miners" Federation of Great Britain |
| PUBLICATION | New York, A.M. Kelley, 1966 |
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| ITEM 430 | DESCRIPTION |
| AUTHOR | Blankenhorn, Heber |
| TITLE | The strike for union |
| PUBLICATION | New York, Arno, 1969 |
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| ITEM 431 | DESCRIPTION |
| AUTHOR | Donaldson Company |
| TITLE | Noise control [microform /] prepared for United States Department of the Interior, Bureau of Mines ; by Donaldson Company, Inc. |
| PUBLICATION | Minneapolis, Minn. : The Company, 1978 |
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| ITEM 432 | DESCRIPTION |
| AUTHOR | Duckershoff, Ernst |
| TITLE | How the English workman lives / by a German coal miner (Ernst Duckershoff) ; translated by C.H. d"E. Leppington |

PUBLICATION London : P.S. King, 1899

ITEM 433	DESCRIPTION
AUTHOR	Strong, Henry K.
TITLE	Report to the legislature of Pennsylvania, containing a description of the Swatara mining district, illustrated by diagrams. Henry K. Strong, Chairman. Presented by Mr. M"Elwee, and printed by order of the House of Representatives
PUBLICATION	Harrisburg, Printed by Boas & Coplan, 1839

ITEM 434	DESCRIPTION
AUTHOR	Thompson, Heber Samuel, 1840 1911
TITLE	Report of Heber S. Thompson, Esq., ... : on the Fire at Kehley"s Run Colliery, situated on the lands of the Girard Estate, near Shenandoah City, Schuylkill County, Pa.
PUBLICATION	Philadelphia [Pa.]: A.T. Zeising, 1882

ITEM 435	DESCRIPTION
AUTHOR	Jones, Philip Nicholas
TITLE	Colliery settlement in the South Wales coalfield, 1850 1926 [by] Philip N. Jones
PUBLICATION	Hull (Yorkshire), University of Hull, 1969

ITEM 436	DESCRIPTION
AUTHOR	Newcastle upon Tyne. Company of Hostmen
TITLE	Extracts from the records of the Company of Hostmen of Newcastle upon Tyne
PUBLICATION	Durham : Published for the Society, 1901

ITEM 437	DESCRIPTION
AUTHOR	Mainiero, Richard J.
TITLE	Evaluation of a sheathed permissible explosive charge for open shooting in flammable atmospheres / by Richard J. Mainiero and J. Edmund Hay
PUBLICATION	Pgh. [i.e. Pittsburgh], Pa. : U.S. Dept. of the Interior, Bureau of Mines, [1982]

ITEM 438	DESCRIPTION
AUTHOR	Camm, Frank A., 1949
TITLE	Regulatory rulemaking to implement congressional legislation : lessons from the Powerplant and Industrial Fuel Use Act of 1978 / Frank Camm ; prepared for the U.S. Department of Energy
PUBLICATION	Santa Monica, CA : Rand Corp., [1983]

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| ITEM 439 | DESCRIPTION |
| AUTHOR | |
| TITLE | A shot from a backwoods-marksman, most respectfully addressed to the people of the commonwealth of Pennsylvania, by their humble servant, a shinglemaker. Reprinted for the Lehigh coal and navigation company, April, 1911 |
| PUBLICATION | [Philadelphia : Lehigh Coal and Navigation Company 1911] |
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| ITEM 440 | DESCRIPTION |
| AUTHOR | Crelling, John Crawford, 1941 |
| TITLE | Principles and applications of coal petrology : short course notes / by John C. Crelling and Russell R. Dutcher |
| PUBLICATION | [S.l.] : Society of Economic Paleontologists & Mineralogists, 1980 |
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| ITEM 441 | DESCRIPTION |
| AUTHOR | Beckett, J. V. |
| TITLE | Coal and tobacco : the Lowthers and the economic development of West Cumberland, 1660 1760 / J. V. Beckett |
| PUBLICATION | Cambridge [Eng.] ; New York : Cambridge University Press, 1981 |
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| ITEM 442 | DESCRIPTION |
| AUTHOR | Skinner, Burrhus Frederic, 1904 ed. |
| TITLE | A digest of decisions of the Anthracite board of conciliation, by B. Frederic Skinner and William A. Skinner |
| PUBLICATION | Scranton, Pa., 1928 |
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| ITEM 443 | DESCRIPTION |
| AUTHOR | Griffin, Alan R. |
| TITLE | The miners of Nottinghamshire, 1914 1944; a history of the Nottinghamshire miners" unions [by] Alan R. Griffin |
| PUBLICATION | London, Allen & Unwin [1962] |
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| ITEM 444 | DESCRIPTION |
| AUTHOR | Diebold, William |
| TITLE | The Schuman plan; a study in economic cooperation, 1950 1959 |
| PUBLICATION | [1st ed.] New York : Published for the Council on Foreign Relations by Praiger 1959 |
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| ITEM 445 | DESCRIPTION |
| AUTHOR | Kravis, Irving B. |
| TITLE | Domestic interests and international obligations; safeguards in international trade organizations |
| PUBLICATION | Philadelphia : University of Pennsylvania Press [c1963] |

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| ITEM 446 | DESCRIPTION |
| AUTHOR | Roy, Andrew |
| TITLE | The coal mines; containing a description of the various systems of working and ventilating mines, together with a sketch of the principal coal regions of the globe, including statistics of the coal production. By Andrew Roy |
| PUBLICATION | Cleveland, OH : Robison, Savage & Co., 1876 |
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| ITEM 447 | DESCRIPTION |
| AUTHOR | Williams, James Eccles |
| TITLE | The Derbyshire miners; a study in industrial and social history |
| PUBLICATION | London : Allen and Unwin [1962] |
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| ITEM 448 | DESCRIPTION |
| AUTHOR | Yearley, Clifton K. |
| TITLE | Enterprise and anthracite: economics and democracy in Schuylkill County, 1820-1875 |
| PUBLICATION | Maryland : Johns Hopkins Press, 1961 |
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| ITEM 449 | DESCRIPTION |
| AUTHOR | Hoffman, John Nathan |
| TITLE | Anthracite in the Lehigh region of Pennsylvania, 1820 45 [by] John N. Hoffman |
| PUBLICATION | Washington : Smithsonian Institution Press; [for sale by the Supt. of Docs., U.S. Govt. Print. Off.] 1968 |
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| ITEM 450 | DESCRIPTION |
| AUTHOR | Caudill, Harry M., 1922 |
| TITLE | My land is dying [by] Harry M. Caudill |
| PUBLICATION | [1st ed.] New York : E. P. Dutton, 1971 |
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| ITEM 451 | DESCRIPTION |
| AUTHOR | Ward, Robert David |
| TITLE | Labor revolt in Alabama: the great strike of 1894 [by] Robert David Ward [and] William Warren Rogers |
| PUBLICATION | University : University of Alabama Press [c1965] |
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| ITEM 452 | DESCRIPTION |
| AUTHOR | Lane, Winthrop David, 1887 1962 |
| TITLE | Civil war in West Virginia |
| PUBLICATION | New York : Arno, 1969 |

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| ITEM 453 | DESCRIPTION |
| AUTHOR | Ross, Malcolm Harrison, 1895 |
| TITLE | Machine age in the hills |
| PUBLICATION | New York : Macmillan, 1933 |
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| ITEM 454 | DESCRIPTION |
| AUTHOR | Gluck, Elsie |
| TITLE | John Mitchell, miner; labor's bargain with the gilded age, by Elsie Gluck |
| PUBLICATION | New York : The John Day Company [c1929] |
| | |
| ITEM 455 | DESCRIPTION |
| AUTHOR | Angle, Paul McClelland, 1900 |
| TITLE | Bloody Williamson; a chapter in American lawlessness |
| PUBLICATION | [1st ed.] New York : Knopf, 1952 |
| | |
| ITEM 456 | DESCRIPTION |
| AUTHOR | Carnes, Cecil, 1909 |
| TITLE | John L. Lewis: leader of labor, by Cecil Carnes |
| PUBLICATION | [1st ed.] New York : Robert Speller Publishing Corporation [c1936] |
| | |
| ITEM 457 | DESCRIPTION |
| AUTHOR | Greene, Victor R. |
| TITLE | The Slavic community on strike; immigrant labor in Pennsylvania anthracite
[by] Victor R. Greene. |
| PUBLICATION | Notre Dame : University of Notre Dame Press |
| | |
| ITEM 458 | DESCRIPTION |
| AUTHOR | Mitchell, Lucy Sprague |
| TITLE | My country 'tis of thee, the use and abuse of natural resources, by Lucy
Sprague Mitchell, Eleanor Bowman and Mary Phelps |
| PUBLICATION | New York : The Macmillan Co., 1940 |
| | |
| ITEM 459 | DESCRIPTION |
| AUTHOR | France. Ambassade. U. S. Service de presse et d'Information |
| TITLE | France and Europe |
| PUBLICATION | [New York : Ambassade de France, Service de Presse et d'Information, 1962] |
| | |
| ITEM 460 | DESCRIPTION |
| AUTHOR | Bowman, Mary Jean |
| TITLE | Resources and people in east Kentucky; problems and potentials of a lagging
economy, by Mary Jean Bowman and W. Warren Haynes |

PUBLICATION Baltimore : Published for Resources for the Future by Johns Hopkins Press [1963]

ITEM 461 DESCRIPTION
 AUTHOR Bouska, Vladimir
 TITLE Geochemistry of coal / by Vladimir Bouska ; [translation Helena Zarubova]
 PUBLICATION Amsterdam ; New York : Elsevier Scientific Pub. Co. : distribution for the U.S.A. and Canada, Elsevier North Holland, Inc., 1981

ITEM 462 DESCRIPTION
 AUTHOR Gregory, Roy
 TITLE The miners and British politics 1906 1914
 PUBLICATION London : Oxford U.P., 1968

ITEM 463 DESCRIPTION
 AUTHOR Institute on Scientific Problems Relevant to Coal Utilization (1977 : West Virginia University)
 TITLE Scientific problems of coal utilization [microform :] proceedings of a conference at West Virginia University, Morgantown, West Virginia, May 23 25, 1977 / edited by Bernard R. Cooper ; sponsored by West Virginia University and Division of Materials and Exploratory Research, Fossil Energy, Energy Research and Development Administration
 PUBLICATION Oak Ridge, Tenn. : Technical Information Center, U.S. Dept. of Energy ; Springfield, Va. : available from National Technical Information Service, U.S. Dept. of Commerce, 1978

ITEM 464 DESCRIPTION
 AUTHOR Anthracite operators' conference
 TITLE A selected bibliography on anthracite; its preparation and utilization
 PUBLICATION New York : Anthracite operators conference, 1929

ITEM 465 DESCRIPTION
 AUTHOR Lucas, Rex A.
 TITLE Men in crisis; a study of a mine disaster, by Rex A. Lucas
 PUBLICATION New York : Basic Books [1969]

ITEM 466 DESCRIPTION
 AUTHOR
 TITLE A Proposal whereby all the inhabitants of London and Westminster and the parts adjacent may be furnish'd with coles [microform :] at 21s. per chaldron in the summer and 25s. per chaldron in the winter, and the poor be supply'd at 21s. per chaldron even in the hardest weather
 PUBLICATION [London? : s.n., 1690?]

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| ITEM 467 | DESCRIPTION |
| AUTHOR | |
| TITLE | The Case of the glass-makers in and about the city of London [microform] |
| PUBLICATION | [London? : s.n., 1699?] |
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| ITEM 468 | DESCRIPTION |
| AUTHOR | Langton, John |
| TITLE | Geographical change and Industrial Revolution : coalmining in south west Lancashire, 1590-1799 / John Langton |
| PUBLICATION | Cambridge ; New York : Cambridge University Press, 1979 |
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| ITEM 469 | DESCRIPTION |
| AUTHOR | Zimmerman, Martin B. |
| TITLE | The U.S. coal industry : the economics of policy choice / Martin B. Zimmerman |
| PUBLICATION | Cambridge, Mass. : MIT Press, c1981 |
| | |
| ITEM 470 | DESCRIPTION |
| AUTHOR | Schweke, William, ed. |
| TITLE | Natural resource taxation : perspectives, resources & issues : briefing book / edited by William Schweke |
| PUBLICATION | Washington : Economic Development Project, Conference on Alternative State and Local Policies, 1980 |
| | |
| ITEM 471 | DESCRIPTION |
| AUTHOR | Tomb, Thomas F. |
| TITLE | Evaluation of a machine-mounted dust collector, by T.F. Tomb, J.F. Martonik, and C.D. Taylor |
| PUBLICATION | [Washington] U.S. Bureau of Mines [1973] |
| | |
| ITEM 472 | DESCRIPTION |
| AUTHOR | John, Angela V. |
| TITLE | By the sweat of their brow : women workers at Victorian coal mines / Angela V. John |
| PUBLICATION | London : Croom Helm, c1980 |
| | |
| ITEM 473 | DESCRIPTION |
| AUTHOR | Johnson, Walter Rogers, 1794-1852 |
| TITLE | A report to the Navy department of the United States on American coals : applicable to steam navigation, and to other purposes / By Walter R. Johnson |
| PUBLICATION | Washington : Blair and Rives, Printers, 1844 |

ITEM 474	DESCRIPTION
AUTHOR	FMC Corporation. Engineered Systems Division
TITLE	Inherently safe mining systems (conventional) Phase III / prepared for United States, Department of the Interior, Bureau of Mines by FMC Corporation, Engineered Systems Division
PUBLICATION	Springfield, Va. : U. S. National Technical Information Service, 197-

ITEM 475	DESCRIPTION
AUTHOR	FMC Corporation. Engineered Systems Division
TITLE	Inherently safe mining systems (continuous) Phase III / prepared for United States, Department of the Interior, Bureau of Mines by FMC Corporation, Engineered Systems Division
PUBLICATION	Springfield, Va. : U. S. National Technical Information Service, [1977?]

ITEM 476	DESCRIPTION
AUTHOR	Kirby, M. W.
TITLE	The British coalmining industry, 1870-1946 : a political and economic history / M. W. Kirby
PUBLICATION	Hamden, Conn. : Archon Books, 1977

ITEM 477	DESCRIPTION
AUTHOR	Rothchild, Ronald D.
TITLE	Longwall ignition suppression / prepared for United States, Department of the Interior, Bureau of Mines by Foster-Miller Associates. [Authors: Ronald D. Rothchild, Adi R. Guzdar.]
PUBLICATION	Springfield, Va. : U. S. National Technical Information Service, 197-

ITEM 478	DESCRIPTION
AUTHOR	FMC Corporation. Engineered Systems Division
TITLE	Inherently safe mining systems (continuous) Phase III / prepared for United States, Department of the Interior, Bureau of Mines by FMC Corporation, Engineered Systems Division
PUBLICATION	Springfield, Va. : U. S. National Technical Information Service, [197-]

ITEM 479	DESCRIPTION
AUTHOR	FMC Corporation. Engineered Systems Division
TITLE	Inherently safe mining systems (conventional) Phase III / prepared for United States, Department of the Interior, Bureau of Mines by FMC Corporation, Engineered Systems Division
PUBLICATION	Springfield, Va. : U. S. National Technical Information Service, 197-

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| ITEM 480 | DESCRIPTION |
| AUTHOR | Lewis, Arthur H., 1906- |
| TITLE | Lament for the Molly Maguires |
| PUBLICATION | [London] Longmans [c1964] |
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| ITEM 481 | DESCRIPTION |
| AUTHOR | Doyle, William S. |
| TITLE | Strip mining of coal : environmental solutions / William S. Doyle |
| PUBLICATION | Park Ridge, N.J. : Noyes Data Corp., 1976 |
| | |
| ITEM 482 | DESCRIPTION |
| AUTHOR | St. Francis Graduate Program Symposium on Industrial Safety and Health,
Loretto, Pa., 1971 |
| TITLE | Industrial safety and health: problems and prospects; a symposium. Edited by
Michael Dudra |
| PUBLICATION | Loretto, Pa., Graduate Program in Industrial Relations, Saint Francis College
[1971] |
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| ITEM 483 | DESCRIPTION |
| AUTHOR | Babu, Suresh, ed. |
| TITLE | Trace elements in fuel : a symposium sponsored by of the American Chemical
Society, Chicago, Ill., August 30, 1973 / Suresh P. Babu, editor |
| PUBLICATION | Washington : American Chemical Society, 1975 |
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| ITEM 484 | DESCRIPTION |
| AUTHOR | Keesing's Publications Ltd. |
| TITLE | The European communities; establishment and growth [by] Keesing's
Publications |
| PUBLICATION | New York, Scribner [1975] |

CHILDREN'S COLLECTION:

- | | |
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| ITEM 485 | DESCRIPTION |
| AUTHOR | Hendershot, Judy |
| TITLE | In coal country / by Judy Hendershot ; illustrated by Thomas B. Allen |
| PUBLICATION | New York : Knopf : Distributed by Random House, c1987 |
| | |
| ITEM 486 | DESCRIPTION |
| AUTHOR | Greene, Carla, 1906- |
| TITLE | I want to be a coal miner. Illus. by Audrey Williamson |
| PUBLICATION | [Chicago] : Childrens Press [1957] |

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|-------------|--|
| ITEM 487 | DESCRIPTION |
| AUTHOR | Lenski, Lois, 1893- |
| TITLE | Coal camp girl |
| PUBLICATION | [1st ed.] Philadelphia, Lippincott, 1959 |
| | |
| ITEM 488 | DESCRIPTION |
| AUTHOR | Hunter, Leslie |
| TITLE | Coal |
| PUBLICATION | London : Burke [1961] |
| | |
| ITEM 489 | DESCRIPTION |
| AUTHOR | Davey, John |
| TITLE | Coal mining. Illustrated by Artur Horowicz and J. Yunge-Bateman |
| PUBLICATION | London, A. & C. Black 1966 |
| | |
| ITEM 490 | DESCRIPTION |
| AUTHOR | Cate, Dick |
| TITLE | Flying free / by Dick Cate ; illustrated by Trevor Stublely |
| PUBLICATION | 1st U.S. ed. Nashville : T. Nelson, [1977], c1975 |
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| ITEM 491 | DESCRIPTION |
| AUTHOR | Reilly, Robert T. |
| TITLE | Rebels in the shadows / by Robert T. Reilly |
| PUBLICATION | Pittsburgh : University of Pittsburgh Press, 1979, c1962 |
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| ITEM 492 | DESCRIPTION |
| AUTHOR | Levy, Elizabeth |
| TITLE | Struggle and lose, struggle and win : the United Mine Workers / Elizabeth Levy, Tad Richards ; photo essay by Henry E. F. Gordillo |
| PUBLICATION | New York : Four Winds Press, c1977 |
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| ITEM 493 | DESCRIPTION |
| AUTHOR | Perez, Norah A. |
| TITLE | Breaker / N.A. Perez |
| PUBLICATION | Boston : Houghton Mifflin, 1988 |
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| ITEM 494 | DESCRIPTION |
| AUTHOR | Petersham, Maud Fuller, 1890-1971 |
| TITLE | The story book of earth's treasures, by Maud and Miska Petersham; gold, coal, oil, iron and steel |
| PUBLICATION | Philadelphia, Chicago [etc.] : The John C. Winston company, c1935 |

FICTION:

ITEM 495	DESCRIPTION
AUTHOR	Sinclair, Upton, 1878-1968
TITLE	The coal war : a sequel to "King Coal" / Upton Sinclair ; introd. by John Graham
PUBLICATION	Boulder : Colorado Associated University Press, c1976

ITEM 496	DESCRIPTION
AUTHOR	Sinclair, Upton, 1878-1968
TITLE	King Coal; a novel, by Upton Sinclair; with an introduction by Dr. Georg Brandes
PUBLICATION	New York, the Macmillan company, 1917

ITEM 497	DESCRIPTION
AUTHOR	Sinclair, Upton Beall, 1878-1968
TITLE	The coal war : a sequel to "King Coal" / Upton Sinclair ; introd. by John Graham
PUBLICATION	Boulder : Colorado Associated University Press, c1976

ITEM 498	DESCRIPTION
AUTHOR	[Gilfillan, Harriet Woodbridge] 1909-
TITLE	I went to pit college, by Lauren Gilfillan [pseud.]
PUBLICATION	New York : Literary Guild, 1934

FILM/VIDEO:

ITEM 499	DESCRIPTION
TITLE	Coal-fired generating plants [slide] : their environmental impacts / by David H. Thompson
PUBLICATION	Lyons Falls, N.Y. : Educational Images, 1980

ITEM 500	DESCRIPTION
TITLE	Coal, bridge to the future [videorecording]
PUBLICATION	[s.l.] : Wolf-Young Associates for Exxon ; Woodbury, NY : J. N. Company [distributor], 1980

ITEM 501	DESCRIPTION
TITLE	Matewan [videorecording]

PUBLICATION Irvine, Calif. : Lorimar Home Video, c1987

ITEM 502 DESCRIPTION
 TITLE Harlan County U.S.A. [videorecording /] Cabin Creek Films ;
 producer-director, Barbara Kopple
 PUBLICATION New York : Columbia Pictures Home Entertainment, c1980

ITEM 503 DESCRIPTION
 TITLE Kameradschaft [videorecording =] Comradeship / From the Janus Collection
 PUBLICATION Los Angeles, Calif. : Embassy Home Entertainment, 1987

ITEM 504 DESCRIPTION
 TITLE Out of the depths, the miner's story [videorecording]
 PUBLICATION Washington, D.C. : PBS Video, 1984

MUSIC:

ITEM 505 DESCRIPTION
 AUTHOR Odetta
 TITLE Odetta sings the Ballad for Americans and other American ballads [sound
 recording /] Odetta
 PUBLICATION [New York] : Vanguard [1960]

ITEM 506 DESCRIPTION
 AUTHOR
 TITLE Songs and ballads of the anthracite miners [Sound recording]
 PUBLICATION Washington, DC : Library of Congress, Music Division, Recording
 Laboratory, 1947

ITEM 507 DESCRIPTION
 AUTHOR Lynn, Loretta
 TITLE Loretta Lynn's greatest hits : vol. II. [Sound recording.]
 PUBLICATION Universal City, Calif. : MCA Records, 1974

ITEM 508 DESCRIPTION
 AUTHOR Seeger, Peter, May 3, 1919-
 TITLE The Essential Pete Seeger. [sound recording]
 PUBLICATION [New York] : Vanguard, 1978

ITEM 509 DESCRIPTION
 AUTHOR Korson, George Gershon, 1899-

TITLE Coal dust on the fiddle; songs and stories of the bituminous industry, by
George Korson. Foreword by John Greenway
PUBLICATION Hatboro, Pa. : Folklore Associates, 1965 [c1943]

ITEM 510 DESCRIPTION
AUTHOR Korson, George Gershon, 1899- ed.
TITLE Coal dust on the fiddle; songs and stories of the bituminous industry, by
George Korson
PUBLICATION Philadelphia, University of Pennsylvania press, 1943

ITEM 511 DESCRIPTION
AUTHOR Korson, George Gershon, 1899-1967, ed.
TITLE Songs and ballads of the anthracite miner; a seam of folk-lore which once ran
through life in the hard coal fields of Pennsylvania, gathered and edited by
George G. Korson
PUBLICATION New York : F. H. Hitchcock [c1927]

ITEM 512 DESCRIPTION
AUTHOR Seeger, Pete, May 3, 1919-
TITLE The World of Pete Seeger. [Sound recording]
PUBLICATION New York : Columbia, 1973

ITEM 513 DESCRIPTION
AUTHOR Green, Archie
TITLE Only a miner : studies in recorded coal-mining songs / Archie Green
PUBLICATION Urbana : University of Illinois Press, [1972]

ITEM 514 DESCRIPTION
AUTHOR Garrick, Mark
TITLE In heaven's above [sound recording] / by Mark Garrick
PUBLICATION Blairsville, Pa. : Indiana County Central Labor Council, c1991

ITEM 515 DESCRIPTION
AUTHOR Stern, Gerald
TITLE The red coal : poems / by Gerald Stern
PUBLICATION Boston : Houghton Mifflin, 1981

ITEM 516 DESCRIPTION
AUTHOR Goode, James B., 1948-
TITLE Poets of darkness / by James B. Goode
PUBLICATION Jackson : University Press of Mississippi, 1981

REFERENCE:

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| ITEM 517 | DESCRIPTION |
| AUTHOR | Munn, Robert F. |
| TITLE | The coal industry in America : a bibliography and guide to studies / Robert F. Munn |
| PUBLICATION | 2d ed. Morgantown : West Virginia University Library, 1977 |
| | |
| ITEM 518 | DESCRIPTION |
| AUTHOR | Gleason, V. E. (Virginia E.) |
| TITLE | Bibliography on disposal of refuse from coal mines and coal cleaning plants / compiled by V. E. Gleason in cooperation with Bituminous Coal Research, Inc., Monroeville, PA |
| PUBLICATION | Monroeville, Pa. : Bituminous Coal Research, 1978 |
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| ITEM 519 | DESCRIPTION |
| AUTHOR | Gleason, V. E. (Virginia E.) |
| TITLE | Bibliography on mined-land reclamation / compiled by V.E. Gleason, for United States Environmental Protection Agency, Industrial Environmental Research Laboratory and United States Department of the Interior, Office of Surface Mining |
| PUBLICATION | Monroeville, PA : Bituminous Coal Research, 1979 |
| | |
| ITEM 520 | DESCRIPTION |
| AUTHOR | Gleason, V. E. (Virginia E.) |
| TITLE | Mine drainage bibliography, 1910-1976/compiled by V. E. Gleason, H. H. Russell, for United States Environmental Protection Agency and Pennsylvania Department of Environmental Resources |
| PUBLICATION | [Washington : National Coal Association ; Monroeville, Pa. : obtained from Bituminous Coal Research], 1976 |
| | |
| ITEM 521 | DESCRIPTION |
| AUTHOR | Gleason, V. E. (Virginia E.) |
| TITLE | Mine drainage bibliography, 1929-1980 / compiled by Virginia E. Gleason |
| PUBLICATION | Cincinnati : Industrial Environmental Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency ; Springfield, Va. : Available to the public through the National Technical Information Service, 1980 |
| | |
| ITEM 522 | DESCRIPTION |
| AUTHOR | Schmidt, Richard A. |
| TITLE | Coal in America : an encyclopedia of reserves, production, and use / by |

PUBLICATION Richard A. Schmidt
New York : Coal Week, McGraw-Hill Publications Co., c1979

ITEM 523 DESCRIPTION
AUTHOR Simeons, Charles
TITLE Coal, its role in tomorrow's technology : a sourcebook on global coal resources / by Charles Simeons
PUBLICATION 1st ed. Oxford ; New York : Pergamon Press, 1978

ITEM 524 DESCRIPTION
AUTHOR Majumdar, Shyamal K., and E. Willard Miller
TITLE Pennsylvania coal : resources, technology, and utilization / edited by Shyamal K. Majumdar and E. Willard Miller
PUBLICATION Easton, Pa. : Pennsylvania Academy of Science, c1983

ITEM 525 DESCRIPTION
AUTHOR Merritt, Roy D.
TITLE Dictionary of coal science and technology / compiled and edited by Roy D. Merritt
PUBLICATION Park Ridge, N.J., U.S.A. : Noyes Publications, c1987

ITEM 526 DESCRIPTION
AUTHOR
TITLE Keystone coal industry manual. 1969-
PUBLICATION New York : McGraw-Hill Mining Publications, Mining Information Services

ITEM 527 DESCRIPTION
AUTHOR
TITLE Coal in the United States : reserves, production, transportation, markets, export capability, supply reliability
PUBLICATION 2nd ed. [Washington, D.C.] : Coal Exporters Association, 1987

ITEM 528 DESCRIPTION
AUTHOR Averitt, Paul, 1908-
TITLE Bibliography and index of U.S. Geological Survey publications relating to coal, 1882-1970, by Paul Averitt and Lorreda Lopez
PUBLICATION Washington, U.S. Govt. Print. Off., 1972

ITEM 529 DESCRIPTION
AUTHOR Deasy, George F.
TITLE Atlas of Pennsylvania coal and coal mining [by] George F. Deasy and Phyllis R. Griess

PUBLICATION University Park, College of Mineral Industries, Pennsylvania State University [1959-63]

ITEM 530 DESCRIPTION
 AUTHOR Williams, A Wyn 1892-
 TITLE Coal manual for industry. Forward [by] William Bradbury
 PUBLICATION New York : Conover-Mast Publications [1952]

ITEM 531 DESCRIPTION
 AUTHOR Deasy, George F.
 TITLE Atlas of Pennsylvania coal and coal mining [by] George F. Deasy and Phyllis R. Griess
 PUBLICATION University Park, College of Mineral Industries, Pennsylvania State University [1959-63]

ITEM 532 DESCRIPTION
 AUTHOR National Coal Association. Dept. of Economics and Statistics
 TITLE Coal data
 PUBLICATION Washington, National Coal Association, Dept. of Economics and Statistics

ITEM 533 DESCRIPTION
 AUTHOR Marsh, Arthur Ivor
 TITLE Historical directory of trade unions / Arthur Marsh and Victoria Ryan ; foreword by Lord Briggs
 PUBLICATION Farnborough, Hants., England : Gower, c1980-<c1984>

ITEM 534 DESCRIPTION
 AUTHOR Kentucky. University. Geological Survey
 TITLE Bibliography of coal in Kentucky
 PUBLICATION Lexington, 1970

ITEM 535 DESCRIPTION
 AUTHOR Meyers, Robert A.
 TITLE Coal handbook / edited by Robert A. Meyers
 PUBLICATION New York : M. Dekker, c1981

ITEM 536 DESCRIPTION
 AUTHOR National Coal Association. Dept. of Economics and Statistics
 TITLE Coal data
 PUBLICATION Washington, D.C., National Coal Association Dept. of Economics and Statistics, 19--?

- | | |
|-------------|--|
| ITEM 537 | DESCRIPTION |
| AUTHOR | Environmental Policy Center |
| TITLE | Facts about coal in the United States / Prepared by the Environmental Policy Center ... for the Massachusetts Audubon Society |
| PUBLICATION | Revised [ed.] Washington : The Center, 1975 |
| | |
| ITEM 538 | DESCRIPTION |
| AUTHOR | Chironis, Nicholas P. |
| TITLE | Coal age operating handbook of underground mining / edited by Nicholas P. Chironis |
| PUBLICATION | New York : Coal Age Mining Informational Services, c1977 |
| | |
| ITEM 539 | DESCRIPTION |
| AUTHOR | Cook, Earleen H. |
| TITLE | Coal slurry lines, a bibliography, 1967-1977 / [by] Earleen H. Cook [and] Joseph Lee Cook |
| PUBLICATION | Monticello, Ill. : Council of Planning Librarians, 1978 |
| | |
| ITEM 540 | DESCRIPTION |
| AUTHOR | Chironis, Nicholas P. |
| TITLE | Coal age operating handbook of underground mining / edited by Nicholas P. Chironis |
| PUBLICATION | New York : Coal Age Mining Informational Services, c1977 |
| | |
| ITEM 541 | DESCRIPTION |
| AUTHOR | Cook, Earleen H. |
| TITLE | Coal slurry lines, a bibliography, 1967-1977 / [by] Earleen H. Cook [and] Joseph Lee Cook |
| PUBLICATION | Monticello, Ill. : Council of Planning Librarians, 1978 |
| | |
| ITEM 542 | DESCRIPTION |
| AUTHOR | National Coal Association |
| TITLE | International coal |
| PUBLICATION | Washington : The Association, 19-- |
| | |
| ITEM 543 | DESCRIPTION |
| AUTHOR | Mining Informational Services |
| TITLE | U.S. coal mine production by seam, 1975 / [compiled and] published by Mining Informational Services, Keystone Coal Industry Manual |
| PUBLICATION | New York : McGraw-Hill, [1976] |

ITEM 544	DESCRIPTION
AUTHOR	Massey, Lester G.
TITLE	Coal gasification; a symposium sponsored by the Division of Fuel Chemistry at the 165th meeting of the American Chemical Society, Dallas, Texas, April 9-10, 1973. Lester G. Massey, editor
PUBLICATION	Washington, American Chemical Society, 1974

ITEM 545	DESCRIPTION
AUTHOR	Merritt, Roy D.
TITLE	Dictionary of coal science and technology / compiled and edited by Roy D. Merritt
PUBLICATION	Park Ridge, N.J., U.S.A. : Noyes Publications, c1987

ITEM 546	DESCRIPTION
AUTHOR	Romaniuk, A. S.
TITLE	Glossary of mining and related terms = Glossaire des termes miniers et du vocabulaire connexe / by A.S. Romaniuk, I. Slowikowski
PUBLICATION	Rev. Ottawa, Canada : CANMET, Energy Mines and Resources Canada, c1980

ITEM 547	DESCRIPTION
AUTHOR	National Coal Association
TITLE	International coal
PUBLICATION	Washington : The Association, 19--

ITEM 548	DESCRIPTION
AUTHOR	Czapowskyj, Miroslaw M.
TITLE	Annotated bibliography on the ecology and reclamation of drastically disturbed areas / [by Miroslaw N. Czapowskyj]
PUBLICATION	Upper Darby, Pa. : U.S. Dept. of Agriculture, Forest Service, Northeastern Forest Experiment Station, 1976

SERIALS:

ITEM 549	DESCRIPTION
TITLE	[Coal (Chicago, Ill. : 1988)] Coal.
PUBLICATION	Vol. 25, no. 2 (Feb. 1988)-v. 26, no. 12 (Dec. 1989); v. 95, no. 1 (Jan. 1990)-[Chicago, Ill. : Maclean Hunter Pub. Co., c1988-

ITEM 550	DESCRIPTION
TITLE	Bulletin of the European Communities
PUBLICATION	v. 1- Jan. 1968- Brussels, Secretariat General of the

Commission

- | ITEM 551 | DESCRIPTION |
|-------------|---|
| TITLE | European community / Common Market ; Coal and Steel Community ; Euratom |
| PUBLICATION | No. 62 (Apr./May 1963)- [Washington, D.C. : European Community Information Service, 1963- |
-
- | ITEM 552 | DESCRIPTION |
|-------------|---|
| TITLE | Europe |
| PUBLICATION | no. 211- Jan./Feb. 1979- [Washington, Delegation of the Commission of the European Communities] |