

BIBLIOGRAPHY
OF
MINE WASTE STABILIZATION

J. E. Lease

Revised 1972

OPEN FILE REPORT 32

PREFACE

This paper was originally done as a literature search for Science Literature, School of Librarianship, University of Denver, in the spring of 1967. The writer showed the article by James, "Stabilization of Mine Dumps with Vegetation," Endeavor, 1966, to her professor saying with enthusiasm, "If they can do this (cover and control the sand dumps) in South Africa, we can do it here (Southwestern United States.)"

The quiet reply was, "Good. Why don't you do your literature search on this subject?"

And so it was done, but only back to 1960, using the resources of the libraries of the University of Denver. In February 1970, Mr. Don^{H.} Baker, Jr., Director of New Mexico Bureau of Mines and Mineral Resources became interested and asked that the paper be brought up-to-date and developed more fully.

In May 1970 the writer was asked to go to Salt Lake City, Utah, to consult with Mr. Karl C. Dean who contributed many of the materials on hard-to-find conferences and symposia.

ACKNOWLEDGMENT

Acknowledgment is gratefully given to Mr. Harold Malinowsky who encouraged the first part of this project; to Dr. James P. Dyke, Library Director, and Mrs. Mildred A. Barrett, assistant Library Director, New Mexico State University Library, who have given assistance and direction; to Mr. Terry Corbett, graduate student who searched the Bibliography of Agriculture and other indexes and abstracts to bring the references up-to-date from 1968, and to Mr. George Folsom, graduate student, who helped search PAIS, xeroxed materials and helped in many other ways.

bibliography of agriculture

TOWARD STABILIZING MINE DUMPS

When man first learned that certain rocks contained useful materials, and he began to dig in the earth to obtain these materials, he did not have any idea of the future problems resulting from the displaced soil and rocks. Since there was plenty of land, man moved about on every continent on this earth, lured on by the precious ores, to all conceivable places, from ocean depths to plains and to mountain tops. And everywhere he removed the top soil, constructed roads and destroyed some of the natural vegetation, generally contributing to erosion of the land by water and wind and to the pollution of the air and water.

Over one hundred years ago George Perkins Marsh became alarmed and wrote his book, Man and Nature, the conservation classic. In this book he wrote, "The result of man's ignorant disregard of the laws of nature. . . was the deterioration of the land". In 1963 Stewart Udall published his book, The Quiet Crisis, in which he discusses our country as a new nation, rich with resources. The use of these resources and the consequent results is simply and effectively told.

Reclamation of land is not new for it was practiced by the shepherds and others of Biblical times who built rock retaining walls on the hillsides to hold the precious rainwater and dug ditches to divert the water to fields.

The reclamation of the sand dunes in the region of Les Landes, southwestern France is one of the greatest achievements of man. Before 407 A. D. this was a forested area, supplying Rome with resin. After the Vandals destroyed the area by leveling the villages, scattering the people, and burning the forests, the westerly winds began moving the sand which eventually covered more than 400,000 acres, creating 2 1/4 million acres of marshland.

In 1778 the French Government appointed Willers to create a military port at Arcachon. He presented the principle of "dune fixation." Approximately 20 years later Napoleon assigned Bremon tier to control these dunes. A littoral dune was established and reforestation of the sand behind the dune was begun; the marsh lands were drained by Chambrelent. Today the forests in this area produce much timber and resin, in addition to supporting numerous health resorts.

In England the abandoned limestone workings at Dudley Castle and Wren's Nest were first planted in trees by the Earl of Dudley about 1815. East Park, Wolverhampton, England, opened in 1896, is the earliest park grown over an area of pit shale and other waste rock as described by Whyte and Sisam. The Midland Reafforestation Association, which was formed in 1903, successfully reforested waste areas in Black County, England.

One of the main objectives of this Association was to prove that it would be worth while from a business view to establish forests on waste land. Waste areas in other European countries and South Africa have been revegetated depending on the type and kind of materials, the climate, and the interest and needs of the people.

In South Africa the mining operations of the Witwatersrand gold field have developed huge dumps of finely ground rock, covering 25,000 acres, with some dumps as high as two hundred feet. A permanent cover has been sought for over fifty years; different methods have been tried without success. In 1953 the situation became so serious that all the previous literature was reviewed and the decision was made to develop a permanent cover of vegetation ~~on~~ which once established would need no further care or aid. Now after a decade of many trials and tests and hard work, such a cover has been established and is thriving.

c Another type of mining more common in the eastern and central part of our country has increased production in the last twenty years. Strip mining removes the overburden of soil and rock which exposes a vein of coal. After the coal has been removed, the operator moves on to another field, often leaving open pits, and spoil banks of loose dirt. Minerals, mainly left exposed to the elements produce adverse chemical conditions. In some cases the sulphuric acid and iron hydroxides have washed into streams, killing fish and plant life. The dirt from the spoil banks has covered some farm lands with much loss of acreage.

In England under the direction of the National Coal Board the area to be overcast (stripmined) is ^{thoroughly} carefully studied and planned before the contract is given to the private company. The first foot of top soil is removed and carefully saved. The next two feet of soil are stockpiled in another place. Then the ^{main} remaining overburden is removed. After the ore has been removed, the process is reversed, the final top layer is graded, and leveled, seeded and fertilized. ~~and~~ In a comparatively short time the area is producing vegetation according to the original plan.

There is a difference in the two operations for the area in England is smaller, more level ~~than the sites in the United States~~ with more moisture than many places in the United States and ^{is} rigidly controlled by the government

Revegetation of mine dumps is desirable for economic returns, bank stabilization, and landscape and amenity improvement. Practical stabilization procedures include physical, vegetative, chemical, and combinations methods. Preplanning of waste disposal, is now a usual practice for many companies beginning new operations.

According to J. M. Francis, Chief Forester, Office Services of Bethlehem Steel, "Reclamation work is as diverse as the number of sites, geographic locations, results desired, type and texture of the waste, local social demands and the incentive or lack of it on the part of the agency or company performing the work."

General principles which have been used follow the basic steps. Because each site is different, the first step is to consult, plan and work with the local agricultural experts regarding materials to be used. . The ^{weathered} area is tested for pH and neutralized. The fertilizer is added to the sterile soil and rock, the mixtures of commercial seed and/or plants are sewn or planted by hand or air, protection for the vegetation from wind, grazing animals or vandals and enough moisture, usually in a mist form is provided until the growth is well established, and then nature is allowed to take over. Research has shown that commercial grains and grasses are best for starting these plots. Care must be taken in selecting native plants for not all are desirable.

In the United States some individual coal companies have made contributions to the forestation of waste areas since the turn of the century. The Harmon Coal Company of Pennsylvania and the Hanna Coal Company of Cadiz, Ohio, in addition to the Illinois Coal Strippers Association and the Indiana Coal Strippers Association are pioneers in this effort. The first large scale planting of trees was in Indiana in 1928. These companies have reclaimed land with trees, and grasses, and have developed parks which have been given to the communities in which they operate. Many of the state parks in southwestern Indiana are former strip mines. Other areas have been developed for agriculture, pasture, orchards, timber for pulpwood, housing and industrial sites, community water supplies and wildlife preserves.

Much research has been done by the United States Forest Service at the Northeastern Forest Experiment Station, the Central States Forest Experiment Station, the Forest Service Research Station at Darby, Pennsylvania, and the West Virginia and Ohio Agricultural Experiment Stations with the the types of grasses, legumes, and trees to be used as cover vegetation for mine-out areas. In addition the Soil Conservation Service the the Bureau of Mines have contributed valuable research.

The national government has passed some acts of legislation dealing with conservation. The Mineral Lands Leasing Act of 1920 established a plan for the orderly development of mineral sources, including oil, gas, and coal. The Soil Conservation Act of 1935, began a nationwide program of soil and moisture conservation. The Wilderness Act of 1964, gave legislation of the multiple use policy to natural areas and to certain existing wilderness areas. Included in the Surface Mining Reclamation Act of 1968, is the objective to prevent dispoilment of thousands of acres of mining land. Proposed legislation in March 1969 provided for the control of strip mining to prevent the destruction of scenic landscape. The bill called for federal action against offenders in areas in which state legislation fails to cope with the problem. The bill was not acted on by the Congress.

Many of the states have passed laws, now tightened, to enforce closing the pits, leveling the spoil banks, and replanting the area. The North Dakota Reclamation Law of 1969, was patterned after the Illinois Act and is one of the most strict in the country. The operators are required to present a plan of reclamation to the State. After surface mining operations are completed the operators must carry out the reclamation of the mined land to provide any of a number of uses, including forestry, grazing lands, crop lands, and wildlife habitats, recreational land, home or industrial sites. It is unlawful to surface mine if the overburden exceeds ten feet without a permit. Where possible, operators must assist in impounding water for lakes or ponds by constructing necessary dam. Montana's Reclamation Law of 1967 is based on the Colorado Law. In Montana the reclamation of the land is in accordance to the highest potential use available. Approval is given by the Montana Bureau of Mines and Geology, which makes an annual inspection of each site. The mining company may receive a refund for the cost of the reclamation up to a maximum of 1/2 the annual license tax. The Wyoming Reclamation Law of 1969 requires the construction of dams where lakes should form, adequate covering of acidic materials, and the filing of leases, maps and reports by operators to show lands reclaimed. It is no wonder that the Society of Mining Engineers reports that this recovery technique (strip mining) is declining in popularity, partly due to fewer reserves and the added cost of reclamation.

Karl C. Dean reports "the most innovative study of the Bureau of Mines has been the development of a combination chemical-vegetative stabilization method. The use of proper chemicals in conjunction with vegetative growth can have several advantages. The chemical can be of benefit by (1) preventing sand blasting of the plants, (2) retaining moisture in the tailings by decreasing evaporation, (3) aiding in germination by absorbing heat, (4) adding organics, and (5) preventing reflection of the sun's rays back onto the plant." (Dean, Karl C...Utilization and Stabilization of Solid Mineral Wastes...p16)

At Kennecott's McGill, Nevada, 10-acre plot where tailings are located in a climatically harsh site for vegetation with a short growing season, wide temperature range, and annual rainfall 8.37 inches, the primary objective of stabilization against wind erosion and native plants coming in was achieved in one year.

In Arizona the different mining companies are working dividually for reclamation. Phelps Dodge Corporation, Arizona's largest copper producer announced the creation of a new Division of Environmental Engineering and Research, July 1, 1970. The main office will be in Tucson under the direction of Dr. James D. Forrester.

Reclamation of the mine dumps and tailing dams has begun in central Arizona at Miami Copper Company. Dirt from the nearby areas was brought in to cover the tailings dams and then planted with domestic grasses and grains and native shrubs.

San Manual

South of Tucson, Anaconda Mining Company spent half of their first six years of operation of their new Twin Buttes mine for the removal of 230 million tons of overburden. Over 206 million tons of materials were used in constructing three square-U shaped dikes. These dikes serve as a dam to impound the mill tailings, to prevent wind exposure and to provide a screen from residential areas and highway views. Built with bases 1,000 feet wide, the dikes are terraced on the outside to a width of 250 feet at the top. The benches are 30 feet wide with 50 foot lifts for a maximum height of 200 feet. Landscaping work

began on the south. The soil and rock were fertilized and native shrubs and grasses were seeded and planted on the slopes. The areas were sprinkled only until the plantings were established. After three years the growth can be seen in figures 1 and 2. Figure 3 shows where the landscaping stopped for one period. A return visit ^{by the writer} in the spring of 1971 showed a great improvement and the spread of the grasses; the wildlife, ^{including javalina} was beginning to return to the area, ~~including javalina~~.

American Smelting and Refining Company north and south of Tucson in working with a local nursery is using still another method of stabilization. Holes have been dug near the edge of the bank, filled with a basic soil, and planted with eucalyptus trees. The sides of the benches have been planted with grass and then covered with straw until the grass is established.

In the summer of 1970 work was begun on a test plot of the New Cornelia Mine at Ajo, Arizona. The tailings had weathered for nine years. A small amount of sawdust was mixed in the top layer of tailings and water from the sewerage settling dam which is just below the test plot was pumped up and used ^{for irrigation}. At the time of the writer's visit all the salt cedar cuttings from the previous summer and the present spring were ^{be} living, as was the wild bermuda grass and some of the oleanders. A trial vegetable plot was being tried.

In northern New Mexico landscaping work is being done at the Pittsburg-Midway strip mine near Gallup. In southern New Mexico both Kennecott Copper Company and Phelps Dodge are working towards similar ends near Silver City.

There is other work being done which has not been mentioned here.

Of special interest to reclamation work is a new shrub, the Arnot Bristly locust which was developed at the USDA Soil Conservation Service Big Flat, (New York, plant materials center. An open branched shrub which grows rapidly and thickens providing a dense canopy and good leaf litter for soil protection the shrub has been successfully grown in acid soil with a pH of 4.0 and in alkaline soil with a pH of 7.5. It is drought resistant and thrives on low-fertility sites, but does not compete with established vegetation. It spreads by root suckers, particularly on coarse soils and may be propagated by seedlings.

Perhaps good community public relations could be developed by speaking before local Garden Clubs and requesting supplies of the bearded iris. This iris requires a sunny location, shallow well-drained soil, and little moisture. The spreading rhizomes hold the soil and the plants serve as a wind break for smaller ^{growth} plants, plus providing color in the spring.

The writer has grown up in the southwestern part of the United States and has long been concerned with erosion of soil from overgrazing, from stripping the land of natural vegetation for real estate development, and from mining. Now that a vegetative cover has been developed for land which is similar to the western states, and for another region which is in the western states, the writer hopes that there will not be too long a lag before work of this type is done here at each mine and range of land which has been changed by man.

SUMMARY

Reclamation of land is not new, but the reclamation of mine dumps and tailing dams is comparatively recent. Effective vegetative covers have been developed but there is a need for more research to be done in this area of conservation. And there is a need to let the general public know what is being done.

Some successful work has been done with the mine dumps of finely-ground rock which have caused dust storms in South Africa and in Nevada. Work for a vegetative cover of the strip-mines in the central and eastern parts of the United States in a different climate has been successful. Additional work in Europe, Japan and the Hawaiian Islands has been described in other reports.

The cost of the rehabilitation of the land has to be added to the cost of producing the ore. Legislation by the states is increasing, but there is some federal control coming as more and more people become concerned. The writer would like to see more work done, especially in the western United States.

#

SOURCES OF INFORMATION

Because so much work has already been done in stabilizing coal mine dumps, the main goal of this paper is to aid and assist those people and mining companies who operate west of the Mississippi River in the United States. The reclamation work in the western part of this country may require methods and materials which are different from those procedures used in the eastern half of this country, so papers on alkaline, radium and saline soils, sand dunes, sand and gravel pits, copper and gold mines are included. The book by Whyte describes stabilization of industrial dumps, including ceramic dumps, as well as mining dumps.

Reports range from historical work to the latest symposium to be published in 1971. The papers presented in the proceedings of the International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969, are identified by the ** at the end of each reference. Copies of the abstracts of the papers may be obtained from the New Mexico Bureau of Mines and Mineral Resources.

For this paper most of the literature available was found in periodical articles. There is little book material yet on this subject, but there is brief information in text and in pictures in some books on conservation.

One of the problems ^{of this literature search} has been to find reports of conferences, symposia and institutes which are not published in the usual media and indexed or abstracted by the reference services used here. For this reason the writer is aware that some excellent work may not be included.

Finding or deciding on subject headings to use in guides, indexes, and abstracts was the main problem in this study. The writer began searching with the James article, "Stabilizing Mine Dumps with Vegetation," September, 1966, issue of Endeavor, using the subject headings of agriculture, botany, and engineering science.

Using these headings in the Readers Guide (May 1945-March 1970), the writer included conservation, erosion, man-influence in environment, mines, natural resources, reclamation of land, soil, vegetation, and weathering. Conservation was too wide a subject. The other subject headings had nothing related to the specific area. The most fruitful heading was reclamation of land.

The Engineering Index (1907-March 1970) under the heading reclamation of land referred the writer to see also coal mines and mining--land reclamation. The Industrial Arts Index (1945-1957) which became the Applied Science and Technology Index (1957-March 1970) used the heading of reclamation of land. The Bibliography of Agriculture (July-December 1943-1969) began using the headings mining, reclamation and reclamation of land until 1948 and then dropped the first heading. Agriculture Index (1919-1964) became Biological and Agricultural Index in September 1964 (1964-1969) and used the headings reclamation of land; beginning with September 1954 the additional heading of spoil banks was used.

In government publications the Monthly Catalog of the United States Government Publications (1945-June 1970) listed entries under reclamation of land. In the List of U. S. Bureau of Mines Publications and Articles the headings vary from strip mines--abandoned, vegetation studies, coal stripping costs--reclaiming land, coal mines, land rehabilitation to strip mines--land rehabilitation problems. From the Publications Distribution Branch, Bureau of Mines, Reports of Investigations and Information Circulars several entries were found while visiting at Salt Lake City. These were separate lists and no headings were used.

The Dictionary Catalog of the National Agricultural Library 1862-1965, v.51 PUR - REF used the heading of reclamation of land. The Library of Congress Catalog - Books: Subjects gave the headings reclamation of land, alkali lands, and sand dunes. Citations are given to these references only for some may be difficult to obtain elsewhere.

Subject Guide to Books in Print, 1969, has a limited amount of materials under reclamation of land but not all could be considered:

The public catalog at the University of Denver library lists books for conservation under the subject heading of reclamation of land. A more thorough search of the catalog was not done there in 1967. Browsing in the classification 331.0973 and looking in specific books was more profitable. At New Mexico State University library the public catalog lists the subject headings of strip mining, strip mining--Congresses, quarries and quarrying--Congresses, hydraulic mining--Congresses, botany-Pennsylvania, botany-ecology, mining engineering. Found in this library, the book by R. O. Whyte and J. W. B. Sisam, The Establishment of Vegetation on Industrial Waste Land has served to give early background information for this paper. The Index of Genera and Species given in the appendix should be of value.

Newspaper indexes used were: The New York Times Index (1945-1969) which referred the writer to reclamation, land, see coal, U. S. reclamation; Researchers Guide to Arizona News in the Arizona Republic (v.1, pt.2, July-December, 1966) used the subject headings mining industry see also copper and copper industry; Index to Arizona News in the Arizona Daily Star, (1963-1965) referred the writer to copper, mining industry see also copper and copper industry. The librarian at the Arizona Daily Star has given assistance in searching to bring the references up-to-date.

Encyclopedias included the McGraw-Hill Encyclopedia of Science, and Yearbook 1968, Encyclopedia Britannica and Britannica Book of the Year, 1965, 1969, Encyclopedia Americana Yearbook, 1969, Colliers Yearbook, 1968, and World Book Yearbook, 1969, 1970.

In the work of coal mine reclamation in the United States the names of C. A. Linstrom from the Central States Forest Experiment Station, G. L. Lowry and P. H. Struthers from the Ohio Agricultural Experiment Station, W. C. Bramble from Pennsylvania Agricultural Experiment Station, and E. H. Tryon from West Virginia Agricultural Experiment Station are prominent. Foreign names and countries represented show W. Knabe from Germany and L. Kroikowski in Poland.

In the work of gold mine reclamation work the names A. E. James and D. Chenik are outstanding.

For copper mine reclamation work the name of Karl C. Dean is leading the field today.

In the area of plant tolerance to salts the name of Leon Bernstein is prominent.

Ade, B.

Strip mining in Pennsylvania. *National Parks Magazine*, 41:15-17,March 1967. ~~Cited: Reader's Guide, 1967.~~

Agricultural Research

Trees restore strip-mined land. *Agricultural Research*, 9:13,
September 1960.

Agricultural Research

Reclaiming sodic soils with salt water. *Agricultural Research*,
11:8-9, June 1963.

Alphen, J. G. van (comp.) and L. F. Abell.

Annotated bibliography on reclamation and improvement of saline
and sodic soils (1966-1960). Wageningen, International Institute
for Land Reclamation and Improvement, 1967, 44 p. ~~Cited?~~

see National Union Catalog. vol A-B series: 247, 1968

Alton, M. E.

Our strip-mine laws need changing. *Ohio Farm Bureau News*, 34(10):10,
April 1955. ~~Cited: Bibliography of Agriculture, 1955.~~

Amemiya, M.

Reclamation of a saline-alkali soil in the upper Colorado River
Basin. *Soil Science Society of America, Proceedings*, 20:423-426,
July 1956. ~~Cited: Ag Index, 1956-1959~~

Anderson, A. J.

Pasture development on a deep sand in the heath country in the upper
south-east of South Australia. Melbourne, Commonwealth Scientific
and Industrial Research Organization, [Australia], 1951, 31 p. ~~Cited:~~
~~Library of Congress Books: Subjects 1950-1954.~~

Catalog

Library of Congress Books: Subjects 1950-1954.

Arate, A. A.

ecology of muskrats in strip-mine ponds in southern Illinois. ✓
Journal of wildlife Management, 23:177-186, April 1959.
Cited: Ag Index, ~~abstracted?~~ ~~abstracted?~~ ~~abstracted?~~ Date?

Aronhime, G.

Strip mined areas replanted. Commonwealth, 25 (1954):8-9, 54,
November 1958. Cited: Bibliography of Agriculture, 1959.

Arizona Daily Star

Copper mines are booming along the Santa Cruz Basin. Arizona
Daily Star, June 27, ^{sec C} 9:2, 1965. Cited: Index to Arizona
News in the Arizona Daily Star,
date?

(Insert A1)

Arizona Republic

Anaconda in record mining dig (Tucson). Arizona Republic, ^{Sept 1} S 26,
23:4, 1966. Cited: Researchers' Guide to Arizona News in the
Arizona Republic, 1966.

Ashby, W. C., and M. B. Baker, Jr.

Soil nutrients and tree growth under black locust and shortleaf
pine overstories in strip-mine plantings. Journal of Forestry,
66:67-71, January 1968. Cited: Biological & Agricultural Index,
1967-1968.

Bagnold, Ralph Alger

The physics of blown sand and desert dunes. London, Methuen, 1954,
265 p.

(Insert A2)

Baker, Hugh Potter

The holding and reclamation of sand dunes and sand wastes by tree
planting. Iowa Academy of Science, Proceedings, 13:209-214, 1906
Des Moines,

Available: National Agriculture Library

left out

underline

stat

X

15

3

Cited: Dictionary Catalog of the National Agricultural Library,

~~1862-1965.~~

remove underscore

Baker, R. S.

Sahara challenge. American Forests, 65:23+, February 1959. ✓

date?

Cited: Ag Index

Barnes, J. H., and Ali Barkat

Alkali soils: ^{le?} Some biochemical factors in their reclamation.

Agricultural Journal of India, 12:368-389, July 1917. Cited: ✓

? Ag Index,
~~1916-18~~ 1

Batten, H. M.

Dutch method of sand dune reclamation. ^{Great Britain} Journal of the Ministry of

~~[Great Britain]~~

what
country?

Agriculture, 44:518, September 1937. Cited: Ag Index, — date?

Bauer, H. J.

Ecological aerial interpretation for revegetation in the Cologne

what
country?

Lignite District. International Symposium on Ecology and ✓

Revegetation of Drastically Disturbed Areas, University Park,

Pennsylvania, August 1969. **

(Insert A3)

Beattie J. M.

Initials
Name?

Foliar analysis shows value of spoils bank for fruit plantings.

Ohio Agricultural Experiment Station, Farm and Home Research,

Bulletin, 307:65-67, July 1957.

Bulletin 307, p. 65-67 ? 1957

Beazeley, Alexander

The reclamation of land from tidal waters. A Handbook for

Engineers, Landed Proprietors, and Others Interested in Works of
Reclamation. London, C. Lockwood and son, 1900, 314 p. Cited: Available ✓

Dictionary Catalog of the National Agricultural Library, ~~1862-1965~~.

~~understand~~

Beerbower, R. C., Jr.

Maintenance of refuse disposal areas. Coal Age. 73:102-104.

February 1968. Cited: Engineering Index, 1968.

Beilby, R. B.

Rehabilitation of areas biologically devastated by human disturbance.

International Union for Conservation of Nature and Natural

Resources, Proceedings and Papers of the Technical Meeting,

6:127-129, 1956. Cited: Bibliography of Agriculture, 1959.

Bell, J. E.

Reclaimed tidal land pipiropa; value of strawberry clover. New

Zealand Journal of Agriculture, 55:193-203, October 1937. Cited:

Ag Index,

Bengtson, G. W., S. E. Allen, D. A. Mays, and T. G. Zager

The use of fertilizers to speed pine establishment on reclaimed

coal mine spoil in northeastern Alabama; greenhouse experiments.

International Symposium on Ecology and Revegetation of Drastically

Disturbed Areas, University Park, Pennsylvania, August 1969.

Bennett, R. J., and others

Lime and phosphate treatments for reclamation of heather moorland.

British Grassland Society Journal, 23:34-39, March 1968. Cited:

Ag Index,

Berg, W. A., and R. F. May

Acidity and plant-available phosphorous in strata overlying coal

seams. Mining Congress Journal, 55:31-34, May 1969. Cited:

Applied Science and Technology Index, 1969.

^{stet}
Berg, William A., and ^{stet}Willis G. Vogel

Aluminum and manganese toxicities of plants grown in acid coal-mine spoils. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969. **

pages?
insert on p. 4?

^{stet}
Berg, William A.

Evaluation of P and K soil fertility tests on coal-mine spoils. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969. ** ✓

(Insert A4, A5, A6, A7)

✓ Bingham, E. R.

^{hyphen?}
Reclaiming mill tailings areas. Mining Environmental Conference, University of Missouri, April 16-18, 1969, p. 99-109. ✓

Birkinshaw, F.

Reclaiming old mining land for agriculture. Malayan Agricultural Journal, 19:470-476, October 1931. ~~Cited: Ag Index, 1931-1933.~~ ✓

Blanchard, C. J.

Reclaiming the desert. Mentor, 6:1-11, October 15, 1918. ~~Cited: Ag Index, 1916-1918.~~ ✓

stet
stet

Bonnet, J. A. and others

Attempt to reclaim with chemicals a salty clay in Puerto Rico. Journal of Agriculture of the University of Puerto Rico, 33:75-84, April 1949. Cited: Ag Index, — date? ✓

stet
stet

~~Boumans, J. and others~~

^{hyphen?}
in NAC. listed under title. ^{stet} Reclamation of salt affected soils in Iraq; ^{stet} soil hydrological and

Agricultural Studies Wageningen, The Netherlands, H. Veerman &

^{no}
Zonen, N. V., 1963, 175 p.

NAC - 1943-67 vol. 40, p. 202
National Union Catalog

~~et al.~~ Bower, Charles Arthur, and others ^{stet}

The improvement of an alkali soil by treatment with manure and chemical amendments, Owyhee irrigation project, Oregon. Oregon Agricultural Experiment Station, Technical bulletin no. 22, 1951, 37 p.

Bower, D. C.

^{Great Britain} Soil and salt. Journal of the Ministry of Agriculture, 61:11-15, April 1954. Cited: Ag Index, ^{date?}

Bowers, R. R.

A big business sees profit in healing those man-made scars. West Virginia Conservation, 18(X):3-6, September 1954. Cited: Bibliography of Agriculture, 1955.

^{stet} Bowman, R. G.

Desert reclamation in South Australia. Scientific Monthly, 70:68-69, January 1950. Cited: Ag Index, ^{date?}

^{stet} Boyce, Stephen G. ^{stet} and Robert W. Merz

Tree species recommended for strip-mine plantations in western Kentucky. Central States Forest Experiment Station, Technical paper no. 160, 1959, 12 p. Cited: Monthly Catalog of United States Government Publications, 1959: ^{month} ~~2097~~ ^{is this document no. on issue of monthly catalog?}

^{stet} Boyko, Hugo

Salt-water agriculture. Scientific American, 216:89-94, March 1967.

^{stet} Bramble, W. C. ^{stet} and W. R. Byrnes

Natural revegetation and wildlife populations on surface-mined coal lands in southern Indiana. International Symposium on Ecology and

Bramble - W.C. - 1949

Bramble - W.C. - 1952

Revegetation of Drastically Disturbed Areas, University Park,
Pennsylvania, August 1959. ~~2~~ ² ~~pages~~ [?] ✓
X

Bramble, W. C., and R. H. Ashley

Natural revegetation of spoil banks in central Pennsylvania. ✓ X

Ecology, 36:417-423, July 1955. Cited: Ag-Index, date

p. 6? yes
Bramble, W. C.

Reforestation of strip-mined bituminous coal land in Pennsylvania.

Journal of Forestry, 50:308-314, April 1952. Cited: Bibliography
of Agriculture, 1952. ✓ X

(Insert A8)

p. 6?
Bramble, W. C.

Strip mining, waste or conservation? American Forests, 55:24-25,
June 1949. Cited: Bulletin of the Public Affairs Information
Service, 1949. ✓

Breeding, C. H. J.

hyphe?
Crown vetch as aid to strip mine reclamation. Mining Congress
Journal, 47 ~~(X)~~:70-71, April 1961. Cited: Engineering Index,
1961. ✓

Brewer, R.

*why give issue number here but leave it out
in other citations of this journal? (see p. 58)
number should be included because each issue
is paginated separately.
Wish we could use crown vetch less. Dr. Widemeyer didn't
encourage me when I asked him about it. (Horticulture Dept.)*
Breeding-bird populations of strip-mined land in Perry County,
Illinois. Ecology, 39:543-545, July 1958. ✓

Brierley, J. K.

Some preliminary observations on the ecology of pit heaps. Journal
of Ecology, 44:383-390, July 1956. ✓ X

And
British Ecological Society

stet
~~Ecology and the Industrial Society~~ 5th Symposium of the Society

stet
~~ed by G. T. Goodman (and others)~~ Review, Ecology, 47:684-685, Summer

stet
1966. W. R. Cooke Cited: Biological & Agricultural Index,

1966-1967.

Brohard, E.

Strip-mine land can be salvaged. Soil Conservation, 27:66-67,

October 1961. *stet*

Brohard, E.

Strip revegetation. Coal Age, 67:64-65, March 1952. Cited:

Applied Science and Technology Index, 1962.

Brooks, D. B.

Strip-mining, reclamation and the public interest. American

Forests, 72:18-19, March 1966. Cited: Readers Guide, 1966.

stet
Brooks, David B.

Economics of mined-land reclamation. Mining Environmental

Conference, University of Missouri, April 16-18, 1969, p. 85-98.

Broun, A. E.

underline
Land Reclamation. Wageningen, International Institute for Land

Reclamation and Improvement, 1960, 37 p. *stet* Cited:

Library of Congress Catalog--Books: Subjects 1960-1964.

Brown, G. F.

Strip mining and land restoration. Soil Conservation, 15:107-109,

December 1949. Cited: Bibliography of Agriculture, 1950.

Brown, J. H.

Success of tree planting on strip-mined areas in West Virginia.

West Virginia Agricultural Experiment Station, Bulletin, 4731,
1-35, 1962. 35 p. *gls.*

(Insert A9)

Brown, John Crombie (comp.)

Pine plantations on the sand-wastes of France. Edinburgh, Oliver
& Boyd, 1978, 172 p. *Available*
Cited: Dictionary Catalog of the National
Agricultural Library, 1962-1965. *refers to his hands.*

Brown, Ray W.

Transpiration of native and introduced grasses on a high elevation
harsh site. International Symposium on Ecology and Revegetation of
Drastically Disturbed Areas, University Park, Pennsylvania, August
1969. *(xx) ?*

Bruce, R.

Problems of land reclamation. (4.) Opencast coal sites. Agricultural
Review, 2 (x):30-35, February 1957. Cited: Bibliography of
Agriculture, 1957.

Bruning, E.

The first international symposium on problems of recultivation of
heaps and dumps in the German Democratic Republic. German

Zeitschrift für Landeskultur, 4 (x):207-233, 1963. Cited:

Bibliography of Agriculture, 1964.

Bullard, W.

Forestry applications in water pollution control. Journal of
Forestry, 65:322-325, May 1967. Cited: Bulletin of the Public
Affairs Information Service, 1968.

Business Week

From waste land to farm land. Business Week, 94:16, June 1, 1952.

Cited: Readers Guide, April 1951-March 1953.

elsewhere RG
is cited by year
alone.

Business Week

Tapping U. S. knowhow to reclaim waste land. Business Week,

164-5, November 8, 1952. Cited: Readers Guide, April 1951-March 1953. — see above and below

Business Week

Strip mining heals its own scars. Business Week, 140:1, November 13, 1965. Cited: Readers Guide, 1966.

Buskett, W.

Reclamation of opencast sites. Colliery Engineering, 29(240): 233-237, 252, June 1952. Cited: Engineering Index, 1952.

Bycroft, C. F.

Reclamation of land from the wash. Agriculture, 75:84-87, February 1968. Cited: Ag Index, —date

(Insert A10)

Cable, D. R.

Competition in the semidesert grass-shrub type as influenced by root systems, growth habits, and soil moisture extraction. Ecology, 50:27-38, Winter 1969. Cited: Ag Index, —date

Calder, R.

Deserts and scientists research into dew-precipitation. New Statesman & Nation, 39:568, May 20, 1950. Cited: Ag Index

months given elsewhere (see Brewer, p. 7)
Your note's correct as one of Smithsonian after
1958 the periodical changed from 4 to 6
issues a year hence the quarter.

Calder, Ritchie

Men against the desert 2nd rev ed with a reappraisal. London.

G. Allen & Unwin, 1958, 208 p. Cited: Dictionary Catalog of the
National Agricultural Library, 1862-1965. Reclamation of land.

~~North.~~

Calder, Ritchie

Men against the desert. London, G. Allen & Unwin, 1951, 186 p.

Cited: Library of Congress Catalog-Books: Subjects 1950-1954.

Reclamation of land. Africa, North.

Calhoun, F. P.

Avoiding pollution from refuse disposal. Mining Congress Journal,

54:78-80, June 1968. Cited: Engineering Index, 1968.

Capp, R. T.

Land and water reclamation program. Mining Congress Journal,

53:106-108, August 1967. Cited: Applied Science and Technology
Index, 1967.

Carhart, A. H.

Bad medicine for the Rio. American Forests, 55:10-12+, August 1949.

Cited: Ag Index

be sure to
add + sign
Article is continued on p. 13,
but isn't long enough for full
page.

Carpenter, C. M.

Forestry and strip-mining. American Forests, 50:70-72+, February

1944. Cited: Bulletin of the Public Affairs Information Service,
1944.

Carter, D. L., and C. D. Fanning

Combining surface mulches and periodic water applications for reclaiming saline soils. Soil Science Society of America, Proceedings, 28:564-567, July 1964. ~~Cited?~~

Caruccio, Frank T.

Characterization of strip-mine drainage of the basis of pyrite grain-size distribution and chemical quality of existing ground waters. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969. ~~paper cited~~

Case, Gerald O.

The use of vegetation for reclaiming tidal lands. London, St. Bride's Press, Limited, 1913, 36 p. ^{Available} Cited: Dictionary Catalog of the National Agricultural Library, 1862-1965. ~~Cited?~~

Caudill, H. M.

Offense against America; ~~A~~ mountain is ravaged, ~~A~~ valley shattered; Big black mountain. Audubon Magazine, 68:356-359, September 1966. Cited: Readers Guide, 1966.

Chadwick, M. J.

Amendment trials of coal spoil in the North of England. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969. ~~paper cited?~~

Chadwick, M. J.

Methods for assessment of acid colliery spoil as a medium for plant growth. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969. ~~paper cited?~~

Chapman, A. G.

X
P.?
forest planting on strip-mined land with special reference to
Ohio. Central States Forest Experiment Station, Technical paper, No.
104, 1944. ^{25 p.} Cited: Monthly Catalog of United States Government
Publications, 1950, 25 p. #10565,

10849
51023
81499
50443
P.
by A13.2
4 Chapman, A. G.

Rehabilitation of areas stripped for coal. Central States Forest
Experiment Station, Technical paper, No. 108, ^{14 p.} 1947. ^{432.} p. ~~Cited:~~
Monthly Catalog of United States Government Publications, ~~1950, 25 p. #10565,~~

stat
Chapman, Valentine Jackson

Salt marshes and salt deserts of the world. London, L. Hill;
New York, Interscience Publishers, 1960, 392 p. Cited: Library
of Congress Catalog-Book: Subjects 1960-1964.

Chase, Stuart

Rich land, poor land: A study of waste in the natural resources
of America. New York, McGraw-Hill, 1936. ^{364 p.} ^{pages?} Cited: Browsing in
Library Stacks at University of Denver. ~~is this a publication?~~

Cheasley, T. C.

Stripping builds a better land. Coal Age, 55(3):80-83, March 1950.
Cited: Engineering Index, 1950.

40. is omitted from
other cites of this
journal at (see next page)

Chemical Engineering

TAM
C42c
Bloom on the meadowlands? Chemical Engineering, 76:60, July 14,
1969. Cited: Applied Science and Technology Index, 1970.

Chenik, D.

Promotion of a vegetative cover on mine slimes, dams, and dumps. ✓

[Peat Britain]

Review, Journal of the Royal Horticultural Society, 85:375, August 1960.
country

(Insert A14) ✓

Chenik, D.

Promotion of vegetative cover on mine slimes, dams and sand dumps.

Association of Mine Managers of South Africa, Papers and Discussions

19
1960-61, 1962, p. 789-839. Cited: Engineering Index, 1962.
Review, Royal Horticultural Society, 85:375, August 1960.
Journal of the ^{stat}

Clark, F. Bryan

Forest planting on strip-mined land in Kansas, Missouri, and Oklahoma. Northern Ozark Forest Research Center, Technical Paper 54, 1954, 33 p. Cited: Monthly Catalog of United States Government Publications, 1954. ~~(1954)~~ ~~all from same source~~

Coal Age

Spoil reclamation includes setting 7,000,000 trees in Illinois;

^{le}Strip-land reclamation. Coal Age, 47:66-67, August 1942. Cited: X

Coal Age

Here's how you can return strip lands to full fertility. Coal Age,

57:98-100, February 1952. Cited: Engineering Index, 1952. X

Coal Age

Meadowlark farming; ^{le}stripped and reserve coal lands. Coal Age,

58:88-93, August 1953. Cited: Aq Index. ¹⁹⁵³ ~~1953~~ ~~ASTM~~

Coal Age

Co-ordinated stripping and augering. Coal Age, 61(48):82-84, March 1956. ~~Cited: Engineering Index, 1956.~~ ✓ x

Coal Age

Flexibility in stripping. Coal Age, 61(45):64-67, November 1956. ✓ x
Cited: ~~Engineering Index, 1957.~~

Coal Age

Reclamation; American mining congress, Pittsburgh; Abstract of papers. Coal Age, 68:108-109, June 1963. Cited: ~~Applied Science and Technology Index, 1963.~~ ✓

Coal Age

Strip-mining, ^Bbaughman style. Coal Age, 68:86-88, June 1963. ✓ x
~~Cited: Applied Science and Technology Index, 1963.~~

Coal Age

Reclaiming land for profit. Coal Age, 68:94-101, October 1963. ✓ x
~~Cited: Applied Science and Technology Index, 1963.~~

Coal Age

Responsible strip mining and restoration. Coal Age, 68:28, January 1964. Cited: ~~Applied Science and Technology Index, 1963.~~ ✓ x

Coal Age

Pulpwood harvested from spoil-bank forests. Coal Age, 69:26, November 1964. Cited: ~~Applied Science and Technology Index, 1965.~~ ✓ x

Coal Age

Colorado miners endorse conservation plan. Coal Age, 69:26, ✓
December 1964. ~~Cited: Applied Science and Technology Index, 1965.~~ x

Coal Age

TVA coal contracts set reclamation requirements. Coal Age, 70:26, ✓
September 1965. ~~Cited: Applied Science and Technology Index, 1965.~~ x

Coal Age

Flexibility enhances results in two-seam surface mining. Coal Age, ✓
71:60-63, January 1966. ~~Cited: Applied Science and Technology,
Index, 1966.~~ x

53 Coal Age

Reclamation activity intensifies. Coal Age, 71:26, March 1966. ✓
~~Cited: Applied Science and Technology Index, 1966.~~ x

7 Coal Age

Strip coal mining: Total-benefit industry. Coal Age, 71:93-116, ✓
April 1966. ~~Cited: Applied Science and Technology Index, 1966.~~ x

Coal Age

Wanted: \$250 million reclamation effort in appalachia. Map, ✓
Coal Age, 71:26+, August 1966. Cited: Applied Science and
Technology Index, 1966. ?

7 Coal Age

Strip mining builds for accelerated growth. Coal Age, 71:113-136, ✓
August 1966. ~~Cited: Applied Science and Technology Index, 1966.~~ x

Coal Age

stripping and reclamation at Robert Bailey Coal Company Coal Age, 71:66-70, September 1966. Cited: Applied Science and Technology Index, 1966. ✓

Coal Age

220 or 220? hyphen? y/s.
American electric power orders 220 yard dragline. Coal Age, 71:26, September 1966. Cited: Applied Science and Technology Index, 1966. ✓

Coal Age

Pittsburg and midway reclamation; forests, lakes, recreation center. Coal Age, 71:100-107, October 1966. Cited: Applied Science and Technology Index, 1966. ✓

Coal Age

upgrades?
Chinook modernizes: Digs deeper, upgrades preparation. Coal Age, 72:82-90, April 1967. Cited: Applied Science and Technology Index, 1967. ✓

Coal Age

Reclamation plan urges standby federal control. Coal Age, 72:26, August 1967. Cited: Applied Science and Technology Index, 1967. ✓

Coal Age

Land reclamation; methods and results. Coal Age, 73:140-145, October 1968. Cited: Applied Science and Technology Index, 1969. ✓

Coal Age

Mined land: haven for harried city dwellers. Coal Age, 74:100-103, April 1969. Cited: Applied Science and Technology Index, 1969. ✓

(17) Coal Age

hypothesis
Coal Age mining guide book: Surface mining. Coal Age, 74:125-212, ✓
July 1969. Cited: Applied Science and Technology Index, 1970.

stel.
Coates, U. Aylmer

New land for old. Town and Country Planning, 29:168-171, April ✓
1961. Cited: Bulletin of the Public Affairs Information Service,
1962.

Cole, E.

checklist
Colliery
Salt lands reclaimed by Dhup grass. Indian Farming, 1:280, June ✓
1940. Cited: Ag Index, *dated*

Colliery Engineering

Reclaiming pit heap. Colliery Engineering, 33 (394):501-506, ✓
December 1956. Cited: Engineering Index, 1957.

Collinson, L. E.

Land restoration in Northumberland after opencast coal. Agriculture
74:489-494, October 1967. Cited: Biological & Agricultural Index,
1967-1968.

Colman, Edward A.

re
Vegetation and watershed management. New York, Ronald
Press, 1953, Cited: Subject Guide to Books in Print. *late?*
not listed NUC.
not in our card catalog

what country?
Commonwealth Bureau of Soils [Great Britain]

64592-1967
Bibliography on spoil-bank soils and their reclamation (1956-1965).
Commonwealth Bureau of Soils, 1027, 1966, 20 p. Cited:
Bibliography of Agriculture, 1967.

31
Circular? Bulletin?
Technical Paper?
Info. not given is Bibliog. of Agric

✓ Cook, L.

Reclamation of strip lands. Mechanization, 20(✓).97-99, September 1956. ~~Cited: Engineering Index, 1957.~~ ✓

✓ Cook, L.

New approach to strip-land reclamation. Mining Congress Journal, 49:68-70, August 1963. ~~Cited: Applied Science and Technology Index, 1963.~~ ✓

Co-op Grain Quarterly

Healing the mine-scarred lands. Co-op Grain Quarterly, 16:55-57, December 1958. ~~Cited: Bulletin of the Public Affairs Information Service, 1959.~~ ✓

Corner, J. T.

Waste tip stabilization in ruhr. Colliery Guardian, 216:250-253, October 1966. ~~Cited: Engineering Index, 1969.~~ ✓

Cornwell, S. M., and E. L. Stone

Plant availability of nutrient and toxic elements in anthracite mining spoils. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August, 1969** ~~2 pages~~ ✓

Cotton, K. E.

Land reclamation for agricultural use. Engineering, 192:306-308, September 8, 1961. ~~Cited: Applied Science and Technology Index, 1961.~~ ✓

20
Cresswell, Christopher

Changes in herbage composition, nutritional status, soils and
microbial populations with the establishment of vegetation on gold
mine dumps on the ~~Witwatersrand~~ Witwatersrand. International Symposium on Ecology
and Revegetation of Drastically Disturbed Areas, University Park,
Pennsylvania, August 1969. ** - ? pages ? X

Crops & Soils

36
Levelling and fertilizer reclaim mine wasteland. Crops & Soils,
20:33, June 1968. Cited: Biological & Agricultural Index, ~~Index~~ X

Crowl, J. M

Recovering strip lands in Kentucky. Coal Age, 62(X):77-79, March
1957. Cited: ? X

Cumberbatch, E. R. St. J.

Soil properties and the effect of organic mulches on reclamation of
Scotland clays. Tropical Agriculture (British West Indies),
46:17-24, January 1969. Cited? brackets X

Cummins, D. G., and others

Properties and plant^aability of East Kentucky spoil banks. Coal Age,
71:82-85, November 1966. Cited: Applied Science and Technology
Index, 1967. X

Curlin, J. W., and R. W. McDermid

Reclamation of timberlands damaged by oil-field waste. Journal of
Forestry, 59:171-174, March 1961. X

Curtis, Willie R.

The effects of strip mining on the hydrology of small mountain
watershed. International Symposium on Ecology and Revegetation of

Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.** ~~2 pages~~ ✓

Curtis, Willie R. *WRR*

Subsurface/moisture relations of strip-mine spoils. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.** ² p. ² ✓

Custred, U. K.

New mining methods rehabilitate Florida's strip mines, American cyanide company. Mining and Engineering Journal, 15:50-52, April 1963. Cited: Applied Science and Technology Index, 1963. ✓

Czapowskyj, Mirosław

Performance of red pine and Japanese larch planted on antracite coal breaker refuse. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.** ~~2 pages~~ ^{h ←} ^{tr} ✓

Dandson, D. N.

A57.9

Yakima Indians ban gravel pits near roads and lake recreation areas of old ones. Soil Conservation, 34(2):35-38, September 1968. Cited: Bibliography of Agriculture, 1969. ^{make?} ^{39,} ✓

Daries, W. E.

Coal waste stability. Mining Congress Journal, 54:19-24, July 1968. Cited: Engineering Index, 1969. ✓

Darmer, Gerhard *GD*

Recultivation of stripped areas as an ecological problem and a concern of landscape care. Oikos 14(2):248-266, 1963. Cited: Bibliography of Agriculture, 1964. ^{Germany} ^[German] ✓

22
Darmer, Gerhard

OK
phytotoxic material. ✓

International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.** ?
page?

Davies, W. M.

England? Bringing back the acres; Ironstone. ^{Great Britain} Journal of the Ministry of Agriculture, ^[Great Britain] 70:169-173, April 1963. ✓

Davies, W. M.

Bringing back the acres; ^{Great Britain} ~~Open~~cast coal. ^{Great Britain} Journal of the Ministry of Agriculture, ^[Great Britain] 70:133-138, March 1963. ✓

Country? Davies, W. M.

Bringing back the acres; ^{Great Britain} ~~Sand~~ and gravel. ^{Great Britain} Journal of the Ministry of Agriculture, ^[Great Britain] 70:223-227, May 1963. ✓

Davies, W. M.

Land restoration following mineral extraction and deposition of waste materials. ^{Journal of the} Royal Agricultural Society of England, ~~Journal~~, 122:26-38, 1961. Cited: Bibliography of Agriculture, 1962. ✓

Davis, Grant

Comparison of fall and spring planting on strip-mine spoils in the bituminous region of Pennsylvania. ^{420.} International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.** ~~Page 2~~ ✓

Deakins, R. M.

The agricultural restoration of strip-mined areas, with particular reference to areas mined for ironstone in the county of Northhampton, England. International Grassland Conference, Proceedings, 6:968-978, 1952. Cited: Bibliography of Agriculture, 1954. ✓

Dean, Karl C.

Chemical and vegetative stabilization of Nevada copper porphyry mill tailing. / May 1969, (3) ^{bc} ~~illustrations~~. Cited: Monthly Catalog of United States Government Publications, July 1969, ~~10062~~ ?

Dean, Karl C., ^{and} Dolezal, H., Haren, S.,

New approaches to solid mineral wastes. Mining Engineering, 21:59-62, March 1969. Cited: Engineering Index, 1969. ✓

Dean, Karl C., Richard Havens, and E. G. Valdez

Stabilization of mineral wastes. Industrial Water Engineering, 6(10) p. 30-33, October 1969. Cited: Outside Publications by Bureau Authors (Bureau of Mines) ?

Bureau Authors (Bureau of Mines) ?

Dean, Karl C., R. Havens, and E. G. Valdez

Utilization and stabilization of solid mineral wastes. 16th Ontario Industrial Waste Conference, Niagara Falls, Ontario, Canada, June 15-18, 1969, p. 18-42. ✓

Dean, Karl C., R. Havens, K. T. Harper, and J. B. Rosenbaum

Vegetative stabilization of mill mineral wastes. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969. ** ? p? ✓

Deanne, J. A.

How strip mining improves mid-west water supplies. Coal Age, 71:66-68, May 1966. Cited: Applied Science and Technology Index, 1966. ✓

Deely, Daniel J., and F. Yates Borden

High surface temperatures on strip-mine spoils. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.

Deitschman, G. H., and R. D. Lane

How strip-mined lands grow trees profitably. Coal Age, 56: 94-97, December 1951. Cited: Engineering Index, 1952.

Deitschman, Glenn H., and S. W. Neckers

Identification and occurrence of sulphides on land stripped for coal. Central States Forest Experiment Station, Technical Paper 135, 1954, 21 p. Cited: Monthly Catalog of United States Government Publications, 1954.

DenUyl, D.

Survival and growth of hardwood plantations on strip mine spoil banks of Indiana. Journal of Forestry, 60:603-606, September 1962.

de'Sigmond, A. A. J.

Alkali soils in Hungary and their reclamation. Soil Science, 18:379-381, November 1924. Cited: Agriculture Index, 1925-1927.

de'Sigmond, A. A. J.

Please omit this entry as is similar to preceding one. The Calif. Ag. Exper. Publ. for this year are in the 400's but I can't find Hungarian alkali soils and methods of their reclamation. California, 1927, 156 p. Cited: Agriculture Index, 1925-1927.

Agricultural Experiment Station Publications, 1927, 156 p. Cited: Agriculture Index, 1925-1927.

(Insert A15) ✓

Dhar, N. R., and S. K. Mukerji

Alkali soils and their reclamation. Agriculture and Livestock in India, 6:850-855, November 1936. Cited: Ag Index.

Diebold, Charles Harbon

Black alkali reclamation. U. S. Soil Conservation Soil Service,
 Southwest Region, Regional Bulletin 101, 5 p. ^{1947,} ~~cited:~~ Dictionary
Catalog of the National Agricultural Library, 1862-1965.

Dierks, E.

Strip mine becomes ^{le} Wildlife ^{le} Haven. Soil Conservation, 26:175-176,
 March 1961. ~~1961?~~

~~Dooley, William Emin~~

A study of the possibilities of peatland reclamation in Ireland
 and a suggested plan for its implementation. ^{University of Michigan, 1959.} Ann Arbor, Michigan,
 University Microfilms, 1959. ^{161p.} ~~Cited:~~ Library of Congress Catalog--

Books: Subjects 1960-1964:

Ph.D. diss. - Univ. of Mich. 1959.
 X X 1959

This is probably a
 Ph.D. dissertation of
 not a publication of
 Univ. Microfilms -
 You need the name check
 of the School. Check
 "Dissertation Abstracts"

Dougall, B. M.

The effects of open-cast coal mining on agricultural land. ^[India]
Journal of Science of Food and Agriculture, 1:225-229, August 1950.
~~Cited: Bibliography of Agriculture, 1951.~~ ^{Country?}

~~Dougall, H. W.~~

Note on the reclamation of soils inundated with sea water. ✓

International Congress of Soil Science, Transactions, 1950,

v. 407-408. ~~1950?~~

Vol 11

Douglas, J. Shalto

Rehabilitation of mined areas. Mining Magazine, 120:106-113,

February 1969. ~~1969?~~

Downing, M. F.

The reclamation of derelict landscape. Planning Outlook, 3:38-52, Autumn ^g 1967. Cited: Bulletin of the Public Affairs Information Service, 1968. X

Draskovic, Dragoljub

Reclamation methods to prevent water pollution in ^{Morava} ~~Montana~~ River watershed. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.** 1 P. 24

Earle, J. B.

Reclaiming gravel mines. Soil Conservation, 26:142, January 1961. X

X Eck, H. V., and others ⁶¹² ~~110~~ ¹¹⁰

Sand-dune stabilization along streams in the ^{Capital} ~~of~~ Southern Great Plains. ✓

Journal of Soil and Water Conservation, 23:131-134, July 1968. X

Cited: Ag Index, ^{date}

Edwards, J. H.

Unleveled spoil brings good return as farming project. Coal Age, 52:92-97, February 1947. Cited: Ag Index, ^{date}

Eigo, D. P.

Bauxite companies build a better Jamaica. Engineering and Mining Journal, 165:102-103, December 1964. Cited: Applied Science and Technology Index, 1965. ✓

(Insert A16)

Electric Light and Power

Power company reforests 3000 acres despoiled by strip mining.

Electric Light and Power, 29 (X):80-81, February 1951. ~~Cited:~~
~~Engineering Index~~, 1951.

Electrical World

New Kentucky law to hike coal prices. Electrical World, 165:47-48,
February 7, 1966. ~~Cited:~~ Applied Science and Technology Index,
~~1966~~.

Ellison, W.

Hill-land reclamation in Montgomeryshire, Wales. Empire Journal
of Experimental Agriculture, 17:215-221, October 1949. ~~Cited?~~

Ellison, W.

Manūrial problems of marginal land. Research, 3:58-62, February
1950. ~~Cited:~~ Aq Index,

(Insert A17, A18) ✓

Engineering

no hyphen
Pennsylvania's land-reclamation act. Engineering, 17:145-146,
July 1965. ~~Cited:~~ Applied Science and Technology Index, 1965. *[Great Britain?]*

Engineering and Mining Journal

Mined-out land brought back to life. Engineering and Mining
Journal, 161 (X):102, August 1960. ~~Cited:~~ Engineering Index, 1960.

Engineering and Mining Journal

Cyanamid reclaims land as it mines; Florida's phosphate field.
Engineering and Mining Journal, 162:99, December 1961. ~~Cited:~~
Applied Science and Technology Index, 1962.

Engineering and Mining Journal

Mine plan for total resource management: Mining's green thumb. Engineering and Mining Journal, 168:77-82, July 1967. Cited: ~~Applied Science and Technology Index~~, 1967.

Engineering and Mining Journal

Inco film shows how mine-tailing areas were converted into grassland. Engineering and Mining Journal, 170:134+, May 1969. Cited: ~~Applied Science and Technology Index~~, 1969.

Engineering Record

Reclaim alkali land by simultaneous flooding and draining. Engineering Record, 75:496-497, March 31, 1917. Cited: ~~Ag Index~~, 1916-18.

Engle, C. F., and Capp, J. P.

Flyash; New hope for strip spoil. West Virginia Agricultural Experiment Station Bulletin, 544:24, Winter, 1967. Cited: ~~Bibliography of Agriculture~~, 1968. 4 p.

Environmental Science and Technology

Vegetation tames mine and smelter wastes. Environmental Science and Technology, 3(8):717, August 1969. Cited?

Etherington, J. R.

Studies of nutrient cycling and productivity in oligotrophic ecosystems; soil potassium and wind-blown sea-spray in a South Wales dune grassland. Journal of Ecology, 55:743-752, November 1967. Cited?

Excavating Engineer

New life for coal lands. Excavating Engineer, 57(11):26-29, November 1963. Cited: ~~Engineering Index~~, 1964.

Fanning, C. D., and D. L. Carter ^{and} *hyphen* 710

Effectiveness of a cotton-bur mulch and a ridge-furrow system in reclaiming saline soils by rainfall. Soil Science Society of America proceedings, 27:703-706, November 1963. ~~Cited~~ 3

Farmer & Stock-Breeder

From 40 to 1,000 acres, 40 years' reclaiming. Farmer & Stock-Breeder, 55:1919+, ^{needed} July 15, 1941. ~~Cited: Ag Index, date~~

Fejer, I.

Utilization of mining dumps. ^[Hungary] ~~(Hungarian)~~ Erdo 9(6):217-219, June 1960. ~~Cited: Bibliography of Agriculture, 1961.~~

Fenley, J. M. *hyphen* 710

Sand-dune control in Les Landes, France. Journal of Forestry, 46:514-519, July 1948. ~~Cited: Ag Index, date~~

Fenton, Robert M.

Design principles for strip-mine restorations. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.** ^{1 p. 2}

Finn, Raymond F.

Ten years of strip-mine forestation research in Ohio. Central States Forest Experiment Station, Technical Paper 153, 1958, 38 p. ~~Cited: Monthly Catalog of United States Government Publications, 1958.~~

month 2

151:409-412, January 28, 1965, Discussion, 152:152, 153:68-69,

April 8, June 17, 1966. Cited: Readers Guide, 1966.

Flowers, A. ~~2~~

Profitable stripping...Productive reclamation. Coal Age, 60 (多):

108-114, May ~~(S)~~ 1955. ~~Cited: Engineering Index, 1955.~~

Foresman, F. J.

Strip farming for profit; Pittsburgh (Kansas) & Midway coal mining company. Coal Age, 52:86-89, September 1947. ~~cited:~~

Ag Index,

Foresman, Frank

Land reclamation. Mining Environmental Conference, University of
Missouri, Rolla, April 16-18, 1969, p. 68-75. 1-2

Forster, I.

Research on control of erosion on strip-mined areas with the help

of synthetic ~~polyelectrolytes~~. (German) Albrecht-Thaer-Archiv.

5(7):499-514, 1961. Cited: ~~Bibliography of Agriculture, 1962.~~

Francis, James M.

Mine-waste reclamation via vegetative stabilization. American
Society of Agronomy, Annual Convention, Kansas City, Missouri,
November 16, 1964, 3 p. Y

Francis, James M.

Mined waste reclamation via vegetative stabilization. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969. *xy ? p ?*

Frank, Robert M.

Screen and cover planting of trees on anthracite mine-spoil areas, 1964, ~~cover title~~ 50 p. illustrations. ~~cited:~~

Monthly Catalog of United States Government Publications, March 1965.
North eastern Forest Experiment Station

Frankel, R. J.

Economic impact of air and water pollution on coal preparation.

Mining Congress Journal, 54:56-63, October 1968. Cited: Engineering Index, 1969.

(Insert A19, A20, A21, A22, A23)

Funk, David T.

Growth and Development of Alder plantings on Ohio strip-mine banks. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969. ***? pe*

Funk, David T.

Revised Bibliography of strip-mine reclamation, December 1962, 20 p.
Central State Forest Experiment Station. Miscellaneous Release #
Cited: Monthly Catalog of United States Government Publications,
January 1963. *#?*

Funk, David T., and Martin E. Dale

European Alder, promising tree for strip-mine planting, September 1961, *Central State Forest Experiment Station*.
Cited: Monthly Catalog of United States Government Publications, November 1961, #19350.

Garner, R. V.

Revegetation of strip-mined areas in Oklahoma. Oklahoma Academy of Science, Proceedings, 34:208-209, 1953. Cited: Bibliography of Agriculture, 1955.

Gerakis, P. A., and C. Z. Tsangarakis

Rehabilitation of the pediplain (gardud) soils of the central Sudan. Agronomy Journal, 60:396-400, July 1968.

Geyer, Wayne A.

Adaptability of tree species to coal in Kansas. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

X Gibbs, H. J.

Research on electroreclamation of saline-alkali soils. American Society for Agricultural Engineers, Transactions, 9(2):64-69, 1966. Cited: Biological & Agricultural Index, 1965-1966.

Glanville, E. B.

Grassing of reclaimed tidal flats. New Zealand Journal of Agriculture, 56:219-220, March 1938. Cited: Ag Index, 1938.

Glover, Katherine

America begins again: The conquest of waste in our natural resources. New York, McGraw-Hill, 1939. Cited: Browsing in library stacks, University of Denver 382p. pages a publication?

Goddard, M. K.

Healing strip-mining scar. U. S. Department of Agriculture Yearbook of Agriculture, 1967, 259-262. Cited: Bibliography of Agriculture, 1968.

Goodland, N. L.

Reclaiming waste lands. ^{What country?}
^{Great Britain} New Commonwealth, 39(2):98-100, February
 1961. ~~Cited: Bibliography of Agriculture, 1961.~~

Goodman, G. T., (ed.)

British Ecological society: Subcommittee survey of the nature of
 the technical advice required when treating land affected by
 industry. Journal of Animal Ecology, 36:279-341, October 1967.
~~Cited: Biological & Agricultural Index, 1967-1968.~~

Goodman, G. T., C. E. R. Pitcairn, and R. P. Gemmell

Ecological factors affecting growth on sites contaminated with
 heavy metals. International Symposium on Ecology and Revegetation
of Drastically Disturbed Areas, University Park, Pennsylvania,
 August 1969.** ? p. 3.

Goodman, Gordon T. (ed.)

Ecology and the industrial society: A Symposium of the British
Ecological Society, ^{p. 13-15} ~~19-16~~ ^{and Son} Swansea, ¹⁹⁶⁴ April 1964. New York, Wiley,
 1965, 395 p.

Goodrich, E. P., and C. V. Davis

Reclamation as an aid to industrial and agricultural balance.
American Society of Civil Engineers, Proceedings, 62:1377-1408,
 November 1936.

Gorchanskii, P. L., S. A. Mamaer, and V. R. Nikilaerskii

Stabilizing of waste piles of gold mining industry by planting.
^[Russia]
^(Russian) Okhrana Prirody na Ural, 5:111-122, 1966. ~~cited:~~
~~Bibliography of Agriculture, 1968.~~

Gordon, I. M.

Erosion control hollinger mine tailing site. Proceedings,

First Annual Meeting of the Canadian Mineral Processors,

Ottawa, January 21-23, 1969, p. 19-29.

Gorrie, R. M.

Taming the desert in India by afforestation and use of sandloving
grasses. Christian Science Monitor Weekly Magazine Section,

March 29, 1946. Cited: Readers Guide, May 1945-April 1947.

pg 9, March 2,

Graham, Peter Anderson

Reclaiming the waste. New York, C. Scribn

Available
Cited: Dictionary Catalog of the National

1862-1965.

32
G76

Reclamation of land.

Graham, Peter Anderson.

Reclaiming the waste. Britain's most urgent problem.
By P. Anderson Graham. With contributions by Dr.
Brenchley, H. Vendelmans, Professor Augustine Henry,
Professor Somerville, Professor Souchon, George Bolam,
and others. London, Pub. at the offices of 'Country Life',
Ltd. (etc.); New York, C. Scribner's sons, 1916.

xiii, 175 p. 191". (Half-title: The increased productivity series. Gen-
eral editor: P. Anderson Graham)

Grandt, Alten

Operation green earth. Mining Environmental Conference, University
of Missouri, Rolla, April 16-18, 1969, p. 76-84.

Grandt, A. F., and A. L. Lang

Reclaiming Illinois strip-coal land with legumes and grasses.

Illinois Agricultural Experiment Station, Bulletin 628, April 1948,

64 p. Cited: Bibliography of Agriculture, 1968.

same as
d. & date
(Insert A24)

32
G7938
Reclamation of land. Gt. Brit.
Gt. Brit. Ministry of health. Committee on the
restoration of land affected by iron ore
working.
...Report of the Committee on the restoration
of land affected by iron ore working... London,
H.M. Stationery off., 1939. 242cm.
117 p. front., illus.
At head of title: Ministry of health.

Committee on the restoration of land affected

Report of the Committee on the Restoration
of Land Affected by Iron Ore Working. London, H. M. Stationery

Office, 1939, 117 p. Cited: Dictionary Catalog of the National

Agricultural Library, 1862-1965.

Great Britain, ←

Ministry of Housing and local government, New Life for Dead lands;

Derelict Acres Reclaimed, London, H. M. Stationery Office, 1963,

29 p.

Green, Herbert

Using salty land; an FAO study. FAO Agricultural Studies, 3, 1948,

49 p. Cited: Library of Congress Catalog--Books: Subjects 1950.

Green, W. P.

Reclamation basis of great coal depot, Hongkong. Canadian Engineer,

52:137-141, January 18, 1927. Cited: Ag. Index.

Greene, W. P.

Reclamation basis of great coal depot, Hongkong. Canadian Engineer,

52:137-141, January 18, 1927. Cited: Agricultural Index, 1925-

1927.

Griffith, F. E., M. O. Magnuson, and R. L. Kimball.

Demonstration and Evaluation of five methods of secondary back-

filling of strip-mine areas. U. S. Bureau of Mines Report of

Investigation. 6772, 1966, 17 p. Cited: Engineering Index, 1967.

Grossman, M. L.

Heritage in peril. American Heritage, 17:4-15+, August 1966.

Cited: Readers Guide, 1966.

Groves, Rees D., J. K. Winter, and S. J. Hussey

Refining of cement copper by nonmelting techniques. Annual AIME

Meeting, Denver, Colorado, February 15-19, 1970, ^{paper,} 14 p.

T01
Pg 6w
Grubb, George E.

Stephen 710
An experiment in beach-sand stabilization. Public Works, 100:83-84,
June 1969.

Gruneklee, H. G.

Turning green the waste land in the settlement communities of
the Ruhr ^{le} District. ^[Germany] ~~German~~ Forst-Holzwirt, 20 ~~(20)~~:504-510,
November 1965. Cited: Bibliography of Agriculture, 1966.

Guernsey, L.

Reclamation of strip-mined lands in Virgo County, Indiana. Indiana
Academy of Science, Proceedings, 67:215-224, 1957, Maps cited?
Bibliography of Agriculture, 1959.

Guernsey, L.

le
The reclamation of strip-mined lands in Western Kentucky. Journal
of Geography, 59 ~~(2)~~:5-11, January 1960. Cited: Bibliography of
Agriculture, 1960.

Gwynn, Thomas A.

Effects of surface mining on environment. Lignite Symposium,
Grand Forks, North Dakota, May 1-2, 1969.

*this is the one I was so interested in to forget the page no.
Karl also has this*

Gwynn, Thomas A.

An improved environment through intelligent mined-land reclamation.
Society of Mining Engineers of American Institute of Mining
Engineers, September 1969, ~~reprint 69-4343~~, 31 p.
(P. 1 of 2)

(Insert ~~A25~~ A26).

Haasis, F. W.

Chance for reforestation. American Forests, 30:298-300, May 1924.
Cited: Ag. Index 1922-1924.

Hadfield, C. N.

*best
country!*

The restoration of ~~derelict~~ land following mineral extraction.
Journal of the [Great Britain]
Royal Institute of Chartered Surveyors, Journal, 32:212-220,
 September 1952. Cited: Bibliography of Agriculture, 1953.

Hall, C. C.

Cinderellas of the coal fields; reclamation of strip-mine land.
Christian Science Monitor Weekly Magazine Section, April 12:8-9,
 1944. Cited: ~~Readers Guide, July 1943-April 1945.~~

Hall, M. A.

Make trees work for you. Pennsylvania Farmer, 149:142-143, August
 1954. Cited: Bibliography of Agriculture, 1953.

Hanson, H. C.

Revegetation of waste ~~land~~ ^{3 range} land. Colorado Agricultural Experiment
 Station, Bulletin 332, 1928, 9 p. Cited: Ag Index, 1928-1930.

Harman, N. M.

No hypothesis 42029
 Some aspects of strip-mine reclamation. Yale Conservation Studies,
 6:39-43, 1957. Cited: Bibliography of Agriculture, 1958.

Harper, A.

Pasture strip lands for profit. Illinois Agriculture, 54 (2):5,
 November 1949. Cited: Bibliography of Agriculture, 1950.

Hart, G. E., and W. R. Byrnes

Replanting key for strip-mined areas. Pennsylvania Agricultural
 Experiment Station, Science for the Farmer, 8:4, Spring 1961.

A 13.42/20 70.136

Hart, George, and William R. Byrnes

Trees for strip-mined lands, report on 10-year survival and growth of trees planted on coal-stripped land in Pennsylvania bituminous region. *Northeastern Forest Experiment Station Forest Research* (with list of literature cited), 1960. *Cover Note*
 title (1) +36 p. illustrations. Cited: Monthly Catalog of United States Government Publications, 1961. *Month? Number?*

(Insert A27)

Hartzog, G. B., Jr.

Darkscape, U. S. A. *A plan of* conservation for natural and human resources. Parks and Recreation, 1:616-620, August 1966. Cited: Readers Guide, 1966.

Hashimoto, Nobuyoshi

Effects of alnus plantations on devastated forest land in Japan. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**? *P. 2?*

Hatch, W. R.

Irish reclaim bog for farms, forestry. Foreign Agriculture, 25:14-15, December 1961.

(Insert A28) /

Havens, Richard, and Karl C. Dean

Chemical stabilization of the uranium tailings at Tuba City, Arizona. U. S. Bureau of Mines, Report of Investigations #7282, August 1969, 12 p. Cited: Monthly Catalog, 1969.

Hawaii,

Department of agriculture and conservation A Wildland Research Plan for Hawaii Honolulu, 1960, 71 p. Cited: Library of Congress Catalog--Books--Subjects 1960-1964. Department of Agriculture and Conservation

Please enter this as it originally sent in to you.

Law, V. D., and W. C. Sharp

✓ Sand-dune stabilization along the North Atlantic coast; Journal of Soil and Water Conservation, 22:143-146, July 1967. Cited: ~~Ag~~

~~Index~~ add sub title.
American beachgrass (*Ammophila breviligulata*) continues to be the key plant for stabilizing active sand areas on the Atlantic coast.

Heady, R.

SP 191
Am 356
Geared to grass; Herefords get fat over old strip mines. American Hereford Journal, 41(12):56-57, October 15, 1950. Cited: Bibliography of Agriculture, 1951.

Heede, B. H.

Hydraulic reclamation: A unique Italian method in watershed rehabilitation. Journal of Soil & Water Conservation, 20:216-219, September 1965. Cited: Biological & Agricultural Index, 1965-1966.

Heide, Gunther

Pedological investigations in the Rhine brown coal area. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.***, p. 7.

Heileman, W. H.

Reclamation of alkali land near Salt Lake City, Utah. U. S.

Agriculture, Dept of Soils, Bureau of Circular 12, 1903, 8 p.

available Cited: Dictionary Catalog of the National Agricultural Library,

~~1862-1965.~~

Heiple, D. K.

High-speed scraper stripping. Coal Age, 55(X):80-81, September 1950. Cited: Engineering Index, 1950.

~~(Insert A29)~~
Herrington, R. E.

An investigation into revegetation of a gravel pit near Wagga.
New South Wales Soil Conservation Journal, 23(2):19-28, January
1967. ~~Cited: Bibliography of Agriculture, 1968.~~ X

Hibbard, P. L.

Some experiments on reclamation of infertile alkali soils by means
of gypsum and other treatments. Soil Science, 13:125-134, February
1922. ~~Cited: Ag Index, 1922-1924.~~ ?

Hill, R. P.

Reclaiming fences from silt; ingenious device used in Esk Valley.
~~see p. 11~~ → New Zealand Journal of Agriculture, 56:433-434, June 1938. X

~~1938~~

X Hill, Ronald D.

Reclamation and revegetation of 640 acres of surface mines ^{gls} Elkins,
West Virginia. International Symposium on Ecology and Revegetation
of Drastically Disturbed Areas, University Park, Pennsylvania,
August 1969.** ? p. 2 X

Hissink, D. J.

Reclamation of the Dutch saline soils (Solonchak) and their
further weathering under the humid climatic conditions of Holland.
Soil Science, 45:83-94, February 1938. X

Hodgson, D. R., and W. N. Townsend

The amelioration and revegetation of pulverized fuel ash. Inter-
national Symposium on Ecology and Revegetation of Drastically
Disturbed Areas, University Park, Pennsylvania, August 1969.** X

Authors are English.

SW
Hodgson, D. R., and others

Reclamation of land covered with pulverized fuel ash; influence of soil depth on crop performance. Journal of Agricultural Science, 61:299-308, November 1963.

(Insert A30) ✓

Holland, Frank R.

Wildlife benefits from strip mine reclamation. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.** 33,

Hollister, G.

Future of Federal programs in strip mining and restoration. Soil Conservation Society of America Proceedings, 17th Annual Meeting, 87-91 p., 1962. Cited: Bibliography of Agriculture, 1963.

Holmes, L. A.

Reclaiming stripped lands in Illinois. Scientific Monthly, 59: 414-420, December 1944.

Huberty, M. R., and A. F. Pillsbury

Reclamation of saline soils in Coachella Valley, California. International Congress of Soil Science, Transactions, 1950: 1:383-385.

X Hoyt, ^F~~R~~. P.

Size doesn't make mine. Mechanization, 18(4):133-135, Spring, 1954. Cited: Engineering Index, 1954.

Hunter, F.

country? ^{Great Britain} Opencast coal sites reclaimed. Journal of the Ministry of
Agriculture, 60:335-336, October 1953.

India, ^{amperand or "and"?}

Committee on natural resources Study on Wastelands Including
Saline, Alkali & Water-logged Lands and Their Reclamation

Measures. New Delhi, 1963, 237 p. Cited

Catalogue Books: Subjects 1960-1964

—INDIA
India (Republic) Committee on Natural Resources.
Study on wastelands, including saline, alkali & water-logged lands and their reclamation measures. New Delhi, 1963.
vii, 237 p. illus., maps (part fold, part col.) 25 cm.
TC003.I48 SA 64-5107

Israelsen, O. W.

Historical background of reclamation. Agricultural Engineering,
32:321-324, June 1951.

Jackson, D.

P & M's expanded colonial mine; big, modern, efficient. Coal Age,
72:56-65, November 1967. Cited: Applied Science and Technology
Index, 1967.

Jackson, D.

Strip-mining and reclamation, and the public. Coal Age, 68:
84-95, May 1963. Cited: Applied Science and Technology Index, 1963.

(Insert A32) ✓

Jacoby, Herman

Growth, root growth and nutrition of beech plants on sites of
different soil texture in the lignite areas of the Rhineland.
International Symposium on Ecology and Revegetation of Drastically
Disturbed Areas, University Park, Pennsylvania, August 1969.**

Jacoby, P. W., Jr.

Revegetation treatments for stand establishment on coal-spoil banks. Journal of Range Management, 22:94-97, March 1969. *No. 111*

James, A. L., and M. Mrost

(*duplicate below*)
Control of acidity of tailings dams and dumps as a precursor to stabilization by vegetation. South African Institute of Mining and Metallurgy, Journal, 65(9):488-495, April 1965.

James, A. L.

Stabilizing mine dumps with vegetation. Endeavour, 25(4):154-157, September 1966. ~~Cited: Scanning Magazine~~ *date?*

James, A. L., and M. Mrost

Control of acidity of tailings dams and dumps *as "as a" (see above duplicate entry)* is precursor to stabilization by vegetation. South African Institute of Mining and Metallurgy, 65(9)488-495, April 1965. ~~Cited: Engineering Index~~ *my fault, twice for duplicating & typing were wrong*

(Insert A33, A34, A35)

Jemison, G. M.

Mined-area restoration of tomorrow. Journal of Soil and Water Conservation, 20(X):186-188, July-August 1965. ~~Cited: Bibliography of Agriculture, 1966.~~ *3622 582610*

Jewell, S. L.

Conservation of strip-mine lands. Mining Congress Journal, 50:38-39, December 1964. ~~Cited: Applied Science and Technology Index~~ *number 3*
1965

Johnston, W. W., and W. L. Powers

Progress report of alkali land reclamation investigations in
~~Eastern Oregon.~~ Oregon Agricultural College Extension Service,
Bulletin 210, 1924, 27 p. Cited: Ag Index, 1925-1927. S

X Jonas, Frantisek

27789 Experience with the afforestation of coal-dust dumps in the North
bohemian lignite area. (Czech) Czechoslovak Ministerstvo
Zemědělství a Lesního Hospodářství Ustav Vedeckotechnických
Informací, 38(7):671-682, July 1965. Cited: Bibliography of
Agriculture, 1966. f

Jonas, Frantisek

Reclamation of areas damaged by mining activity in Czechoslovakia.
International Symposium on Ecology and Revegetation of Drastically
Disturbed Areas, University Park, Pennsylvania, August 1969.**

Jones, D. C.

Reclamation program points to future economic values. Mechanization,
14(5):75-77,81, May 1950. Cited: Engineering Index, 1950. f

X Jones, W. G.

Land conservation in Pennsylvania's open-pit mines. Mining Congress
Journal, 49:52-56, October 1963. Cited: Applied Science and
Technology Index, 1964. f

Journal of the Ministry of Agriculture

Great Britain.
 Reclamation of waste land by agricultural means. Journal of the
Ministry of Agriculture, 27:791-793, December 1920. Cited: f
Agriculture Index, 1919-1923. f

✓ Rubys, S.

E. yes.

Polesya and the problem of the reclamation of the peat bogs in
Belorussia. Belorussian Review, ^{no 8, p. 65-74,} September 1960. ~~Cited:~~
~~Bulletin of the Public Affairs Information Service, 1961.~~

✓ Karkaria, N. J.

Consolidation coal company's achievements in environmental control.
Mining Congress Journal, 54:46-51, September 1968. ~~Cited:~~
~~Applied Science and Technology Index, 1968~~

✓ Kassai, I.

92289 Reclamation problems of excavation and waste disposal areas in the
carbon mining basin of Meesek. ^{Hyphen? no} ^[Hungary] ~~(Hungarian)~~ Erdo, 13 ¹³:106-116,
March 1963. ~~Cited:~~ Bibliography of Agriculture, 1963

- (Insert A36)

Kealy, C. D., and R. L. Soderberg

Design of dams for mill tailings. U. S. Bureau of Mines, Information
Circulars 8410, 1969, 49 p.

Kelley, Walter Pearson

Alkali soils; their formation, properties and reclamation, New
York, Reinhold, 1951, 176 p.

✓ Kelley, Walter Pearson

S1 H548 Principles governing the reclamation of alkali soils. Hilgardia,
a Journal of Agricultural Science, 8(5):140-177, 1934.

Kelley, Walter Pearson

^{yes these are used in ind.}
The reclamation of alkali soils. California Agricultural
Experiment Station, Berkeley, California Bulletin 617, December
1937, 40 p. ~~Cited:~~ Dictionary Catalog of the National
Agricultural Library, 1862-1965

Kelley, Walter Pearson, and E. E. Thomas ✓

these are used in indet.

~~Reclamation~~ Reclamation of the Fresno type of black-alkali soil, California Agricultural Experiment Station, Berkeley, California Bulletin 455, June 1928, 37 p. ~~Cited: Dictionary Catalog of the National Agricultural Library, 1862-1965.~~ S

✓ Kendig, J. D.

Hybrid poplar renew growth spurts. Coal Age, 74:88-89, March 1969. ✓

~~Cited: Applied Science and Technology Index, 1969.~~ S X

Kendig, J. D.

Hybrid poplar renew mined land. Coal Age, 73:78-80, March 1968. ✓

~~Cited: Applied Science and Technology Index, 1968.~~ S X

MOVE TO P. 60
New York Times

~~Kentucky Governor~~

Kentucky Governor Breathitt gives qualified support to have present law on control of strip-mining strengthened. New York Times, June 23, 63:1, 1962. ~~Cited: New York Times Index, 1965.~~ S ✓

MOVE TO P. 61
New York Times

~~Kentucky Legislature~~

~~Ref: N.Y. Times?~~

Kentucky Legislature passes bill to curb surface or strip mining; passage opens a way for 8-state compact. New York Times, January 28, 1:8, 1966. ~~Cited: New York Times Index, 1966.~~ S ✓

Khan, C. M. A.

Sand dune rehabilitation in Thal. Journal of Range Management, 21:316-321, September 1968. ~~Cited: As Index,~~ S X

Knabe, W. ^{Wilhelm}

Beiträge zur bibliographie über wiederurbarmachung von
berghauflächen. Humboldt Universität Wissenschaftliche Zeit-
schrift, 7(2):291-304, 1957-1958. ~~cited: Bibliography of~~
~~Agriculture, 1959.~~

Knabe, Wilhelm

Development and application of the Domsdorf ameliorative treatment
on toxic spoil banks in lignite opencast mines in Germany.

International Symposium on Ecology and Revegetation of Drastically
Disturbed Areas, University Park, Pennsylvania, August 1969.**

Knabe, Wilhelm

Investigation of soil and tree growth on five slag heaps of deep
mines in the hard coal region of the Ruhr. ^{Wypchen 2710} International Symposium
on Ecology and Revegetation of Drastically Disturbed Areas, University
Park, Pennsylvania, August 1969.**

Knabe, W. ^{Wilhelm}

Methods and results of strip-mine reclamation in Germany. Ohio
Journal of Science, 64(2):75-105, ~~March~~ March 1964. ~~cited:~~
~~Bibliography of Agriculture, 1964.~~

Knabe, W. ^{Wilhelm}

The reclamation of lands stripped for brown coal. Ohio Agricultural
Experiment Station Forestry Department, Serial 49, July 1962, 11 p.
~~cited: Bibliography of Agriculture, 1962.~~

Knabe, W. ^{Wilhelm}

Zur wiederurbarmachung in braunkohlenbergbau, Review. Agricultural
Engineering, 41:529, August 1960. Soil Science Society of America,
Proceedings, 24:sup^{vi}, September 1960. M. F. Keller ?

Knudsen, L. L., and C. D. Siller

Increased strip-mining demands more spoils reclamation. Ohio Agric. Expt. Sta.
Farm and Home Research, 36:45, May-June 1951. ~~cited: Bibliography of Agriculture, 1952.~~ ^{see below}
 (36:45) ^{number?}

Knudsen, L. L., and P. H. Struthers

Strip-mine reclamation research in Ohio. Ohio Journal of Science, 53:351-355, November 1953. ~~cited: Bibliography of Agriculture, 1954~~
 hyphen? ^{no}

Knudsen, L. L., and P. H. Struthers

Trees and pasture possible on land formerly used in strip-mining. Ohio Agricultural Experiment Station, Farm and Home Research, 278:72-73, September, 1952.
 91
 ok 3j

Kohnke, H.

Reclaiming coal-mine spoils for agriculture. Indiana Academy of Science Proceedings, 61:165, 1951. ~~cited: Bibliography of Agriculture, 1953.~~
 30 43
 2 2008
 42 726

Krause, Rodney R.

Predicting mined-land soil potential. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

Krause, Rodney R.

Reclamation program of Ohio power company. Mining Congress Journal, 50:78-80, August 1964. ~~cited: Applied Science and Technology Index, 1964.~~
 (number?)

Krolikowski, L., Z. Strzelec, and F. Piela

Experimental afforestation of mine and slag dumps. Rocznik Gleboznawcze, 10:726-727, 1961. ~~cited: Bibliography of~~
 [Poland]

Agriculture ~~1967~~

Krolkowski, L., ~~S. Brywezy~~ Brywezy-Kuninska, Z., and Z. Strzelec

Experimental sodding of mine and slag dumps of the silesian industrial district. ^{2.960} ~~(Polish)~~ ^[Poland] Roelnick Gleboznaweze, 10:728-730, ^(sup)
1961. Cited: ~~Bibliography of Agriculture, 1962~~

Kuhlewind, C.

Reclamation problems in strip-mining areas. ~~(German)~~ Zeitschrift
f. Kulturtechnik und Flurbereinigung ^[Germany] 9 (2):147-149, May-June 1968.
~~Cited: Bibliography of Agriculture, 1969~~

Laing, R. T.

Open pit mining. Pennsylvania Forests and Waters, 2:100-101,
113-114, September-October 1950. Cited: Bibliography of Agriculture
1951

Lamm, A. E.

Surface mine reclamation; why and how. Mining Congress Journal,
~~(7) number 2~~;
50:23-27, March 1964. Cited: Applied Science and Technology
Index, 1964

Great Britain, Board of Agriculture
~~Land Reclamation in Germany~~

Land reclamation in Germany. Journal of the Board Agriculture,
~~(Great Britain)~~ 26:691-699, October 1919. Cited: Ag Index,
1919-1928

(Insert A38)

Laughlin, E. V.

Healing sand and gravel wastes. American Thresherman, 25:12,
August 1922. ~~cited: Ag Index.~~

Loody, C. D.

Reclaiming sodic (alkali) soils. New Mexico State University,
Cooperative Extension Service, Plant Science Guide, 400 A-602,
September 1967, 2 p.

Liacos, Léonidas

Restauration des terrains au - dessus de la limite superieure
de la végétation forestière ameliorstions pastorales dans les
alpes meridionales. Thessaloniki, 1954, Thèse - Université de Nancy. X

~~Cited: Dictionary Catalog of the National Agricultural Library,~~

~~1862-1965, Reclamation of land, Alps~~

Limstrom, G. A.

A bibliography of strip-mine reclamation. Central States Forest
Experiment Station, Miscellaneous Release, 8, December 1953, 25 p.

~~Cited: Bibliography of Agriculture, 1954~~

Limstrom, G. A.

Forestation of strip-mined land in the central States. United
States Department of Agriculture Handbook, 166, February 1960, 74 p.

~~Cited: Bibliography of Agriculture, 1960~~

Limstrom, G. A., and R. W. Merz

Overburden analyses and strip-mine conditions in Southeastern Ohio.

Central States Forest Experiment Station, Technical Paper 127,

December 1951, 61 p. Cited: Bibliography of Agriculture, 1952.

Limstrom, G. A., and G. H. Deitschman

Reclaiming Illinois strip-coal lands by forest planting. Illinois

Agricultural Experiment Station Bulletin 547:198-251, November 1951. Cited

~~Bibliography of Agriculture, 1952~~

(Insert A39)

Limstrom, G. A., and R. W. Merz

Rehabilitation of lands stripped for coal in Ohio. Central States Forest Experiment Station, Technical Paper 113, December 1949, 41 p. ~~cited: Bibliography of Agriculture, 1950.~~ X

Limstrom, G. A.

Extent, character, and forestation possibilities of land stripped for coal in Central States. Central States Forest Experiment Station, Technical Paper 109, 1948, 79 p. ~~Cited: Monthly Catalog of United States Government Publications, 1950.~~ X

X Limstrom, G. A.

Overburden analyses and strip-mine condition in Midwestern Ohio. Central States Forest Experiment Station, Technical Paper 117, 1950, 33 p. ~~cited: Monthly Catalog of United States Publications, 1951.~~ X

North eastern Ohio.
Tech. paper 114. 1950 44p.

Limstrom, G. A., and R. W. Merz

Overburden analyses and strip-mine conditions in Northwestern district of Ohio coal-mining region. Central States Experiment Station, Technical Paper 124, 1951, 36 p. ~~cited: Monthly Catalog of United States Government Publications, 1951.~~ X

Linton, N.

An industry within an industry. American Forests, 57 (X):18-19, 34, 37, December 1951. ~~cited: Bibliography of Agriculture, 1952.~~ X

Long, E. J.

Timber from Jamaican ore pits. American Forests, 69:22-25, September 1963. X

Long, H. H.

Many work together to mend damaged Illinois farmland. Soil

~~(?) number?~~
Conservation, 31:271-272, July 1966. ~~cited: Biological &~~ X

Agricultural Index, 1966-1967-5

Loomis, ? See Mr. Baker - He picked up this at conference
in Tucson, April, 1970. Has to do with landscaping
of mine dumps - I haven't seen it in the
Monthly Catalog.

(Insert A40) ✓

Lowry, G. L.

Alder for reforesting coal spoils in Ohio. Journal of Forestry,

~~(?) number?~~
60:196-199, March 1962. X

(Insert A41, A43, A42)

Lowry, G. L.

Conifer establishment on coal spoils as influenced by certain
site factors and organic additions at planting time. Soil Science
Society of America Proceedings, 24:316-318, July 1960. X

(Insert A44) ✓

Lowry, G. L.

Five-year study evaluates forest tree varieties for spoil banks.

Ohio Agricultural Experiment Station, Farm & Home Research, Bulletin

302, 70-71, September 1956. X

↑ #p.#

✓ Lowry, G. L.

Hardwoods show promise for spoil-bank reclamation. Ohio Agricultural
Experiment Station, Forest Mimeo 33, March 1957, 3 p. Cited:

Bibliography of Agriculture, 1957. X

(Insert A45) ✓

Lynn, R. D., and C. J. Hanson. ?

See Mr. Baker.

Lynn is manager of the mine at Subcarita, Ariz.
Coal Corp. 1965-

64

McCormick, Larry H.

The chemical quality of percolate resulting from the application of sewage sludge and effluent to acid strip-mine spoils. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

McDuff, I. H.

Forests as a sideline. Nature Magazine, 42:486-488, December 1949.

~~Cited: Bibliography of Agriculture, 1950.~~

Macfarlane, W. K.

Open cast sites; restoration work in Fife. Scottish Agriculture,

30:125-130, Winter 1950-1951. ~~Cited: Bibliography of Agriculture~~

~~1951.~~

McGeorge, W. T.

Corrective measures for the salinity problem in Southwestern soils.

Better Crops, 31:19-22, June 1947. ~~Cited: Ag Index~~

McGregor, W.

Better farms from strip land. Coal Age, 57(X):100-120, March 1952.

~~Cited: Engineering Index, 1952.~~

McHardy, L. J., and J. Y. Holmes

Farming an airfield; problem of restoration. ^{Great Britain} Journal of the Ministry of Agriculture, 57:201-204, August 1950. ~~Cited: Ag Index~~

McMunn, E. W.

Which shall it be -- stripped coal or cropland? or can we have both? Ohio Farmer, 196(12):5, 26, December 1945. ~~Cited:~~

~~Bibliography of Agriculture, 1946.~~

✓ Magnusm, M. O., and R. L. Kimball

Revegetation studies at three strip-mine sites in North-Central
Pennsylvania. U. S. Bureau of Mines, February 1968, 8 p. Cited:
List of U. S. Bureau of Mines Publications and Articles, 1968 ✓

Mailey, H. V.

Landfill: from eyesore to asset. Public Works, 95:95-96, November
1964. Cited: Applied Science and Technology Index, 1964 ✓

Marsh, George Perkins

Man and nature, (edited by ^{David} ~~George~~ Lowenthal, Cambridge: Pelknap
Press of Harvard University Press, 1965. Cited: The Quiet Crises ✓

this is the classic book on Am. conservation first published in NY. 1864
by Charles Scribner.

✓ Martin, Dale E.

Interplant Alder to increase growth in strip-mine plantations.
October 1963, 4 p. Cited: Monthly Catalog of United States
Government Publications, July 1966, No. 20696, ✓

✓ Martin, Emmett Virgil

Adaption and origin in the plant world. Washington Carnegie
Institution of Washington, publication 521, [v. 2] ✓

(Insert A47) ✓

Mathey, N. A.

These irrigation farmers restore alkali lands. Soil Conservation,
29:142-143, January 1964. ✓

Mattoon, H. G.

Strip-mining replanting law needed. Forest Leaves, 34 (X):7,
November-December 1944. Cited: Bibliography of Agriculture, 1945 ✓

One cannot ~~even~~ tell from this entry whether Marsh has an article, "Man and Nature," in a collection of articles edited by Lowenthal — or whether he has an article, title not given, in a book, "Man and Nature," edited by L.

May, J. T., H. H. Johnson, H. F. Perkins, and R. A. McCreery ✓

Characteristics of spoil material from kaolin strip mining.

International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.** ✓

May, Jack T., C. L. Parks, and H. F. Perkins ✓

Establishment of grasses and tree vegetation on spoil from kaolin clay strip mining. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.** ✓

May, M. ✓

Mine reclamation in the Western states. Mining Congress Journal, () number 53:101-105, August 1967. Cited: ~~Applied Science and Technology Index, 1967.~~ X

X May, R. F. ✓

Strip-mine reclamation research; where are we? Mining Congress Journal, 51:52-55, April 1965. Cited: ~~Applied Science and Technology Index and Engineering Index, 1965.~~ X

May, R. F. ✓

Surface-mine reclamation; continuing research challenge. Coal Age, 69:98-99+, March 1964. Cited: ~~Applied Science and Technology Index, 1964.~~ X

Mayfield, P. ✓

Reforestation and land reclamation; by-products of chemical industry. Chemurgic Digest, 9:19-20, May 1950. Cited: ~~Ag Index~~ X

~~X~~ Mechanization

Reclamation research needed for strip-mine lands. Mechanization, 15(10):93, 95, 97, October 1951. ~~cited: Engineering Index, 1951~~

Mechanization

Earth moving with auxiliary equipment. Mechanization, 19(10), 71-72, June 1955. ~~Cited: Engineering Index, 1955.~~

Medvich, C. ^{yes?}

Why reforest surface-mined areas? Mining Congress Journal, 51: 86-89, June 1965. ~~Cited: Applied Science and Technology Index, 1965.~~

Medvick, Charles

Selected plant species for revegetating surface coal mined lands in Indiana - A forty year record. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

Meigs, P.

Salvaging the desert; ^{stet} International conference on arid lands, Albuquerque, N. M., Nation, 180:577-579, June 25, 1955. ~~Cited: Ag Index,~~

~~X~~ Meiners, Robert G. ^{No repetition}

Strip-mining legislation. Natural Resources Journal, 3:442-469, January 1964. ~~Cited: Bulletin of the Public Affairs Information Service, 1964.~~

Mellinger, R. H., F. W. Glover, and J. G. Hall

Results of revegetation of strip-mine spoil by conservation districts in West Virginia. West Virginia Agricultural Experiment Station, Bulletin 540, December 1966, 18 p. Cited: Bibliography of Agriculture, 1967.

(Insert A48)

Merkle, F. G.

Reclaiming strip-mined land in Pennsylvania. Rural New Yorker, 100:730-740, October 1950. Cited: Bibliography of Agriculture, 1951.

Metter, E. W.

Strip mining and land utilization in Western Pennsylvania. Scientific Monthly, 69:94-103, August 1949. Cited: Readers Guide, May 1949-March 1951. Use Miller entry

Middour, J. C.

Reclamation of strip-mined areas. Pennsylvania Forests and Waters, 2:98-99, (110-111), September-October 1950. Cited: Bibliography of Agriculture, 1951.

Miles, V. C., R. W. Ruble, and R. L. Bond

Performance of plants in relation to spoil classification in Pennsylvania. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

Miller, E. E.

Black locust reclaims washed lands. American Forests, 27:252-253, April 1921. Cited: Ag Index, 1919-1923.

Miller, F. H.

Reclamation of grass lands by Utah juniper on the Tusayan National Forest. Journal of Forestry, 19:647-651, October 1921.

~~Cited: Ag Index, 1919-1923~~

Miller, W. E.

Strip-mining and land utilization in Western Pennsylvania.

Scientific Monthly, 69:94-103, August 1949. ~~Cited: Ag Index~~

(Insert A49)

~~X~~ Mining Congress Journal

Spoil banks of exhausted strip mine transformed ^{into} happy hunting grounds at We-Ma-Tuk. ~~?~~ Mining Congress Journal, 45:70-71,

December 1959. ~~Cited: Applied Science and Technology Index, 1960~~

~~X~~ Mining Congress Journal

Industry and the environment; mined-lands reclamation. ^{no hyper.} Mining Congress Journal, 55:60-64, January 1969. ~~Cited: Applied Science and~~

Technology Index, 1969.

Mining Engineering

Engineering surface coal mines. Mining Engineering, 19:119-122, October 1967.

~~Cited: Applied Science and Technology Index, 1967~~

(Insert A50)

~~Miscellaneous~~ U. S. Bureau of Mines

For the benefit of man. ^{U. S.} ~~Prepared by the Office of Mineral Reports of the~~ ^{Report prepared for} Bureau of Mines, for the White House Conference on Natural Beauty, 1965, 20 p.

~~Cited: List of Bureau of Mines Publications and Articles, 1965~~

Misra, D. K., and others

Reclamation of the Rajputana Desert. World Crops, 20:18-24, May 1967. ~~Cited:~~

Biological & Agricultural Index, 1967-1968.

Mitchell, B. A.

Malayan tin tailings--prospects of rehabilitation. Malayan Forester, 2(4):
181-186, October 1957. Cited: Bibliography of Agriculture, 1958.

Molyneux, J. K.

country ok? *Some ecological aspects of colliery waste heaps around Wigan, South Lancashire.*
[Great Britain]
Journal of Ecology, 51:315-321, July 1963.

Montgomery, H. B.

Conscientious coal stripping, D. G. Wertz coal company. Coal Age, 67:84-88,
July 1962. Cited: Applied Science and Technology Index, 1962.

Morawski, S.

date?
Poland
afforestation of dumps after hard coal mining. [Polish] Sylwan, 62(4):59-64, 1962.
Cited: Bibliography of Agriculture, 1968.

Results of recent trials of afforestation of wastelands after zinc and lead mining at Poland Sylwan, 112: 47-54, 1968.
Energetic heaps - their kinds and planting with larch. [Polish] Sylwan, 111: 47-56, 1967.
Morgan, A.

Reclamation of salt-affected land in the Kerang District. Journal of the
Department of Agriculture of Victoria, 45:111-115, March 1947.

Morley, J.

hypoth 2/10
Gravel pit reclamation in the You Yangs. Victoria, Forests Commission, Forestry
Technical Papers, 8:40-41, March 1962. Cited: Bibliography of Agriculture,
1962. *P. 14-15*

Morse, W. B.

Oregon dunes. American Forests, 66:28-31+, January 1960.

Moulton, R. H.

Reclaiming a sandy farm; afforestation stops drifting sand. Field Illustrated,
32:25, January 1922. Cited: Ag Index, 1922-1924.

Musgrave, M. E.

Miracle maker of the rangeland. American Forests, 47:64-66+, February 1941.
Cited: Ag Index.

(Insert A51, A52, A53)

Nations Business

Returning beauty to the land; friendship park in Eastern Ohio. Nations Business, 58:19, January 1970. Cited: Readers Guide, 1970.

(Insert A54, A56, A55)

Neff, E. D.

Measuring midway for a new green gown. Nature Magazine, 38:412-414+, October 1945. Cited: Ag Index.

Neron, E.

Reclaim Iowa's spoil banks. Iowa Agriculture, 51(X):18-19, March 1953. Cited: Bibliography of Agriculture, 1953.

Neumann, G. W.

Tailings disposal of No. 12 and No. 6 concentrators at Brunswick mining and smelting corporation limited. Proceedings of the First Annual Meeting of the Canadian Mineral Processors, Ottawa, January 21-23, 1969, p. 75-77.

Neumann, Ulrich

Succession of soil fauna in afforested spoil banks of the brown-coal mining district of Cologne. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

New York Times

Natural resources. White House Conference on Conservation, New York Times, May 25th, 1962. Cited: New York Times Index, 1962.

New York Times

H. R. approves bill for \$3645 million earmarked strip-mining. New York Times, January 28, 14:1, 1965. Cited: New York Times Index, 1965.

New York Times

[Article on] history of strip-mining operations and Kentucky residents' effort to curb them. New York Times, July 1, 33:2-3, 1965. Cited: New York Times Index, 1965.

New York Times

TVA chairman ^Wagner says TVA backs careful mining and thorough reclamation. ✓

New York Times, July 14, 36:3, 1965. Cited: New York Times Index, 1965. ✓

New York Times

TVA includes land reclamation provision for first time ^{in new contract bid} New York Times, July 28, 46:4 and August 1, 63:5, 1965. Cited: New York Times Index, 1965. ✓

New York Times

Bill to curb strip-mining offered. New York Times, January 5, 19:3, 1966. ✓

Cited: New York Times Index, 1966. ✓

New York Times

Kentucky General Assembly

Approves bill for strip-mining control after governor Breathitt's personal

plea. New York Times, January 26, 16:3, 1966. Cited: New York Times Index, 1966. ✓

1966 Kentucky Legislature passes bill to curb surface or strip mining; passage opens way for 8-state compact; section of bill makes Kentucky first signatory to proposed compact. NY Times Jan. 28, 1966.

New York Times

\$500,000 pilot project set to reclaim for recreation uses lands ravaged by coal

strip mining, Jellico, Tennessee, appalachian regional committee to provide

\$300,000 ^{July} New York Times, 3, 27:2, 1966. Cited: New York Times Index, 1966. ✓

New York Times

Representative Moeller offers aid authorizing government to share up to 75

per cent cost of reclaiming land ravaged by strip mining. New York Times,

August 12, 11:1, 1966. Cited: New York Times Index, 1966. ✓

New York Times

Reclamation of strip-mine land by Hanna ^I coal near Cadiz, Ohio, for cattle

grazing discussed. New York Times, October 2, III, 17:1, 1966. Cited: New York Times Index, 1966. ✓

New York Times Index, 1966.

Successful use of land reclaimed and revegetated by Hanna Coal Company near Cadiz, Ohio, noted. O.2, III, 17:1.

New York Times

~~Article~~ Mining versus land reclamation programs in Polk County, Florida, since 1961. ^{Section} New York Times, March 5, X, 9:2, 1967. Cited: ~~New York Times Index, 1967~~ ✓

~~X~~ New York Times

West Virginia House approves bill on strip-mine reclamation. ^{? no helper} New York Times, March 9, 32:8, 1967. Cited: ~~New York Times Index, 1967~~ ✓

New York Times

West Virginia University begins research on acid mine water damage, Morgantown. New York Times, March 12, III, 15:6, 1967. Cited: ~~New York Times Index, 1967~~ ✓

New York Times

President's council on recreation and natural beauty urges federal authority to help states prevent damage from surface mining and repair past damages, report to White House. New York Times, October 27, 29:1, 1968. Cited: ~~New York Times Index, 1968~~ ✓

New York Times

Christopher coal company seeks uses for or ways to dispose of sludge, waste materials that remains after mine water is treated for disposal. New York Times, December 29, III, 13:4, 1968. Cited: ~~New York Times Index, 1968~~ ✓

New York Times

Maryland general assembly approves bill requiring strip miners to reclaim mined areas. New York Times, March 30, 30:1, 1969. Cited: ~~New York Times Index, 1969~~ ✓

New Zealand Journal of Agriculture

Sand-dune reclamation. Journal of Agriculture New Zealand, 23:340-343, December 1921. Cited: ~~Ag Index, 1922-1924~~ ✓

Given as New Zealand Journal of Agriculture elsewhere

Nielsen, R.

How Denmark turned more than 2500 square miles ^{out} of useless land into forests and fields. World Agriculture, 2:184-185, August 1922. Cited: Ag Index 1922-1924.

Nielson, Rex F., and H. B. Peterson

Establishing vegetation on mine-tailings waste. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

Nordberg, B.

Planned program for land rehabilitation; American aggregates corporation. Rock Products, 54:110-113, January 1951. Cited: Ag Index.

Ogg, W. G., and A. Macleod

Reclamation and cultivation of peat land in Lewis. (cont.) Scottish Journal of Agriculture, 13:121-133, April 1930. Cited: Ag Index, 1931-1933.

Ogg, W. G., and others

Reclamation and cultivation of peat land in Lewis. (cont.) Scottish Journal of Agriculture, 13:121-133; 14:131-140; 15:174-184; 16:218-225, April 1930, April 1930, April 1931, April 1932, April 1933. Cited: Ag Index, 1928-1930.

Ogg, W. G., and I. M. Robertson

Reclamation of peat land in Lanarkshire; Carnwath experiment. Scottish Journal of Agriculture, 23:56-62, July 1940. Cited: Ag Index.

Olschowy, G.

Reclamation measures in lignite mining with example of the berronrath spoil bank in the Rhine lignite district. Bad Godesberg Institut für Raumforschung, Informationen, 11(20):533-550, October 1961. Cited: Bibliography of Agriculture 1962.

X Olschowy, G.

Recultivation of sand, gravel and clay pits preservation of native soils.

International Union for Conservation of Nature and Natural Resources. Proceedings and papers of the Technical Meeting, 6:1, 1956. Cited: Bibliography of Agriculture 1958

Olschowy, Gerhard

Landscape plannings on an ecological basis. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

(Insert A57) †

Onosode, A. T., and J. F. Redhead

The reclamation of devastated mine-lands on the Jos Plateau, Nigeria.

International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

Ontario Industrial Waste Conference

Vegetative stabilization at Miami copper company, Miami, Arizona. 16th Ontario Industrial Waste Conference, Niagara Falls, Ontario, Canada, June 15-18, 1969, p. 28-42.

Optima

Laying the dust on the mine dumps and slimes dams of the Witwatersrand. Optima, 159-160, September 1966.

(Insert A58)

O'Toole, M. A.

Grassland research on blanket peat in Ireland. British Grassland Society Journal, 23:43-50, March 1968. Cited: Biological & Agricultural Index, 1967-1968

Overstreet, H., and others

Gypsum, sulfur, and sulfuric acid for reclaiming an alkali soil of the Fresno Series. Hilgardia, a Journal of Agricultural Science, 21(5):113-127, November 1951. Cited: Ag Index

Overstreet, R., and others

Reclamation of an alkali soil of the Hacienda Series. Hilgardia, a
no comm 2
Journal of Agricultural Science, 24(X):53-68, September 1955. Cited:

Ag. Index

Oxenham, John Rudolph

~~what? Co. - Inc.?~~
~~Faber, Ltd.~~
~~Reclaiming derelict land.~~ London, Faber, 1966, 204 p.

Patejdl. C., and M. Strupl

47472
11/1955
0.4/3/2
The recultivation of strip-mined areas through the inter-stratification
with fertile types of soils. (Sb. ^{ornit} Ustav Vedeckotech Inform.)

[Czechoslovakia]
Meliorace, 2(X):57-68, March 1966. Cited: Bibliography of Agriculture

1966 country?

Pearson, George A.

Rice as a crop for salt-affected soil in process of reclamation. U. S.

Department of Agriculture, Production Research Report 43, 1960, 13 p.

Cited: Library of Congress Catalog-Books: Subjects 1960-1961.

Pendlebury, C. L.

lec
Mineral spoil heaps: ~~Experimental~~ planting. Land Agents' Society

Journal, 50:472-474, November 1951. Cited: Bibliography of Agriculture

1952

Pendleton, J. W., and J. J. Hammond

Reclaiming strip-mined land. Illinois Agricultural Experiment Station,

Research, 6:10-11, Summer 1964.

Pennsylvania Agricultural Experiment Station

lec
This rotation is a success: ~~Coal~~ to corn to coal. Pennsylvania

Agricultural Experiment Station, Science for the Farmer, 11:14, Fall 1963.

X ~~Pennsylvania~~ Research Committee on Coal Mine Spoil Revegetation in Pennsylvania
which is title? Pennsylvania Research Committee on Coal Mine Spoil Revegetation, A
Guide for Revegetating Bituminous Strip-mine Spoils in Pennsylvania, ~~Harrisburg~~
1965, 46 p. Cited: Bibliography of Agriculture, 1966 Ref: 564123

X 560513
Penton, A. *Omit - this doesn't have enough technical material.*
Reclaiming strip-mined land. Organic Farmer, 5(2):34-35, October 1953.
Cited: Bibliography of Agriculture, 1954

X Peters, T. H.
The use of vegetation to stabilize mine-tailings areas at copper cliff.
Mines Accident Prevention Association of Ontario, Toronto, May 21-23,
1969, ~~Annual Meeting~~, no page given.

Peterson, H. B., and Rex F. Nielson
Deficiencies and toxicities in mine tailings. International Symposium
on Ecology and Revegetation of Drastically Disturbed Areas, University
Park, Pennsylvania, August 1969.**

(Insert A59)

Petzold, Heinz

Die wiederrurbarmachung der kippen und halden im senftenberger brauk-
ohlenrier. Cottbus, Rat des Bezirkes Cottbus, 1955, 62 p. Cited
Dictionary Catalog of the National Agricultural Library, 1862-1968.

(Insert A60)

Pit and Quarry

American cyanimid combines mining, reclamation in Florida phosphate field.
Pit and Quarry, 54:42, March 1962. Cited: Applied Science and Tech-
nology Index, 1962.

Plair, T. B.

Districts help heal mine spoil in Appalachia. Soil Conservation, 31:214,
April 1966. Cited: Biological & Agricultural Index, 1965-1966.

(Insert A61)

Plants and Gardens

Seedling trees restore scarred earth. Plants and Gardens, 18:19,

Summer 1962.

(Insert A62)

X Plass, W. T., and J. D. Burton

Pulpwood production potential on strip-mined land in the South.

Journal of Soil and Water Conservation, 22:235-238, November/December 1967.

Cited: Ag Index

Plass, William T.

Genetic variability in Virginia pine influences survival and growth on

an acid spoil. International Symposium on Ecology and Revegetation of

Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

Potter, H. S., S. Weitzman, and G. R. Trimble, Jr.

Reforestation of strip-mined lands in West Virginia. Northeastern

Forest Experiment Station, Technical Papers 43, June 1951, 28 p. Cited:

Bibliography of Agriculture 1951.

Powell, J. F.

Research on spoil banks aids West Virginia's program to heal over terrain

ruined by strip mines. Pennsylvania Farmer, 153:3-21, August 1955.

Cited: Bibliography of Agriculture 1955.

Power Engineering

Operation green earth; its importance to power field; strip-mined coal

producers reclaim land areas. Power Engineering, 68:48-49, July 1964.

Cited: Applied Science and Technology Index 1964.

Quilliam, R. E.

One state's answer to strip mining. Soil Conservation, 33:132-133,

January 1968. Cited: Biological & Agricultural Index 1967-1968.

Ranft, H.

First recultivated section of the waste mine dumps of the ore mountains.

[Germany]

~~(German)~~ Sozialistische Forstwirtschaft, 15(8):237-238, August 1965. Cited:

Bibliography of Agriculture, 1966

Ranft, H.

Meliorative measures for an intensive recultivation of mine dumps in the

ore mountains. ~~(German)~~ Sozialistische Forstwirtschaft, 17(6):172-176,

June 1967. Cited: Bibliography of Agriculture, 1968

Ranwell, D. S. (ed.)

British ecological society sub-committee report on landscape improvement advice and research. Journal of Ecology, 55:supp. 1-8, March 1967.

Cited: Biological & Agricultural Index, 1966-1967

Reclamation Bureau.

Reclamation, 60 years of service 1902-1962 (1962) cover ~~title~~, (2)+

41 p. (processed) LC card 62-62303. Cited: Monthly Catalog of United States Government Publications, September 1962, #18133

Reeve, R. C., and C. A. Bower

Use of high-salt waters as a flocculant and source of divalent cations for reclaiming sodic soils. Soil Science, 90:139-144, August 1960.

Reeve, R. C., and others

Reclamation of a saline and high boron soil in the Coachella Valley of California. Hilgardia, a Journal of Agricultural Science, 24(X): 69-91, September 1955.

(Insert A63)

Reilly, J. D., and others

For better strip reclamation: Hanna coal division of consolidated coal company. Coal Age, 70:83-87, December 1965. Cited: Applied Science and Technology Index, 1966

✓ Reilly, J. D.

310
Planning surface-mine reclamation before mining. Mining Congress
Journal, 51:93-96, November 1965. Cited: Applied Science and Techn-
nology Index, 1966.

Reiss, I. H.

Farming on coal lands. Coal Age, 55(10):82-85, October 1950. Cited:
Engineering Index, 1951.

Repp, Gertraud

Cell physiological test methods in selection of plant species for
revegetation of chemically disturbed sites. International Symposium on
Ecology and Revegetation of Drastically Disturbed Areas, University
Park, Pennsylvania, August 1969.**

✓ Rhys, J. P.

Derelict land should be dealt with nationally. Municipal Journal,
Public Works Engineer and Contractor's Guide, 73:20-27, June 11, 1965.
Cited: Bulletin of the Public Affairs Information Service, 1969.

✓
N1176
Richards, L. A. (ed)

Diagnosis and improvement of saline and alkali soils. U. S. Department
of Agriculture, Agricultural Handbook 60, 1954, 160 p.

Richards, Lorenzo Adolph

Availability of water to crops on saline soils. U. S. Department of
Agriculture, Agriculture Information Bulletin 210, 1959, 10 p.
Available: Library of Congress

Richardson, J. A.

Effect of temperature on the growth of plants on pit heaps. Journal
of Ecology, 46:537-546, November 1958. Cited: Ag Index.

Riley, C. V.

Reclamation of coal strip-mined lands with reference to wildlife plantings. Journal of Wildlife Management, 21(4):402-413, October 1957.

Cited: Bibliography of Agriculture, 1957.

Riley, C. V.

Revegetation and management of critical sites for wildlife. North American Wildlife and Natural Resources Conference Transactions, 28:

269-283, 1963. Cited: Bibliography of Agriculture, 1963.

Robinson, D. H.

Reclaiming pit mounds. ^{Great Britain} Journal of the Ministry of Agriculture, 52:

178-180, July 1945. Cited: Ag Index.

Roger, N. F.

Strip-mined lands of the Western interior coal province. Missouri Agricultural Experiment Station Research Bulletin 475, May 1951, 55 p.

Cited: Bibliography of Agriculture, 1952.

Rothwell, Frederick M.

Nodulation by various strains of rhizobium with robinia pseudoacacia seedlings planted in strip mine spoil. ^{hypoch 2nd} International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

(Insert A64)†

Rozov, L. P.

Allgemeines schema der bodenuntersuchungen, welche zur begründung der meliorationsprojekte erforderlich sind. ^{2nd} International Congress Soil Science, ^{2d} Proceedings, 6:168-174, 1932. Cited: Ag Index, 1931-1933.

Ruffner, J. D.

New plants for alleghenies, strip mine spoils and shale soils. Soil Conservation, 27:209-210, April 1962.

Ruffner, Joseph D., and W. W. Steiner

Evaluation of plants for use on critical sites. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

Russell, Don

Telephone call, Twin Buttes Mine at Sahuarita, Arizona, April 1970.

Russell, E. J.

Agricultural restoration of mining and quarrying sites. ^{Great Britain.} Journal of the country ? [Chesapeake Bay] Ministry of Agriculture, 54:49-54, May 1947. Cited: Ag Index.

Russell, K. L.

Good hunting, good fishing (Abandoned strip-mine dumps and pits).

Country Gentlemen, 121:50, January 1951. Cited: Ag Index.

Saddington, Robert R.

Tailings seeding procedures. Correspondence, March 29, 1965. (International Nickel Company of Canada, Ontario Division).

Sadler, L. D. M., and others

Miscible displacement of soluble salts in reclaiming a salted soil.

Soil Science, 100:348-355, November 1965.

Salisbury, Sir Edward James

Downs & Dunes; ^{lc 7.46.} Their plant life and its environment. London, Bell, 1952, 328 p. ^{Co. Sons Ltd.}

Sail, G. W.

Strip land reclamation at little sister coal corporation. Mining Congress Journal, 40:26-28, 71, October 1954. Cited: Ag Index.

(Insert A65)
Sandsten, E. P.

Reclaiming nitre soil in the Grand Valley, Colorado. Colorado Agricultural College Extension Service Bulletin 235, 1917, 8 p. ~~med~~

~~1917-1918~~

~~1917-1918~~

Sappenfield, V.

Spoil-bank lands return farm profit in Indiana; Sherwood-Templeton coal company. Coal Age, 61:82-84, May 1956. Cited: Ag Index

(Insert A66)

X Sauer, E. L.

uph? 710

Trends in economics of mined area restoration. Soil Conservation Society of America Proceedings, 17th Annual Meeting, 107-119, 1962. Cited: Bibliography of Agriculture, 1963

X Sawyer, L. E.

5/22/62

Mined area restoration in Indiana. Journal of Soil and Water Conservation, 17(X):75-67, 76, March/April 1962. Cited: Bibliography of Agriculture, 1962

Sawyer, L. E., J. W. Bristow, and R. T. Laing

Reclamation and conservation of stripped-over lands. Mining Congress Journal, 32:26-36, July 1946. Cited: Ag Index

Sawyer, L. E.

The strippers; Experiments by coal operators in rehabilitation. Land-scape Architect, 56(X):132-135, January 1966. Cited: Bibliography of Agriculture, 1966

X Sawyer, L. E.

uph? 710

The use of surface/mined land. Journal of Soil and Water Conservation, 4:161-165, October 1949. Cited: Bibliography of Agriculture, 1950

5/22/62

Schessler, T. E., and R. F. Droege ~~stat~~

Strip-mine reclamation: ~~A digest~~. Journal of Soil and Water Conservation, 20:17-20, January 1966. Cited: Biological & Agricultural Index 1965-1966.

Schimp, Park E. ~~in 1966~~ ^{20/10}

Deep mine waste reclamation experimentation in the bituminous regions of Pennsylvania. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

Schlätzer, Georg

Some experiences with species in Danish reclamation work. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

Schmehl, W. R., and B. D. McCaslin

Chemical properties of spent oil shale significant to plant growth. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

X Schneider, S.

Rekultivierung, unsiedlung und besitzzusammenlegung auf verkippten landwirtschaftlichen flächen des kölnen braunkohlenreviers. Berlin zur Deutsche Landeskultur, 26(X):82-85, May 1960. Cited: Bibliography of Agriculture, 1961.

(Insert A68)

X Scientific American

Disappearing U. W. Scientific American, 211:58, October 1964. Cited: Reprints Catalog, 1964.
 ~~not for this paper~~

Schoewe, W. H.

Land reclamation. Mining Congress Journal, 49:92-97, September 1960, 49:73+, October 1960. Cited: Applied Science and Technology Index 1960.

Schoonover, W. R.

Testing and reclaiming alkali soils. Better Crops with Plant Food, 37:23-26+, October 1953. Cited: Ag Index. X

Sears, P. B.

Comparative costs of restoration and reclamation of land. ✓

American Academy of Political and Social Science, Annals, 281: X

126-134, May 1952. Cited: Readers Guide, April 1951-March 1953

X Sears, P. B.

Deserts on the march. Norman, University of Oklahoma, 1935. *Fig. yes - 231p.*

Cited: Agricultural Index, 1934-1935 no. of pages? *underline? why can't you publish?*

X Seigworth, K. J.

Ducktown (mining district): A postwar challenge. American Forests, 49:521-523+, November 1943. Cited: Bulletin of the Public

Affairs Information Service, 1944 11847

(For Mr. Baker - destruction of natural vegetation due to sulphur fumes - publishing agency?)

X Seidel, Kenneth W., and Kenneth A. Brinkman

Mixed or pure walnut plantings on strip-mined land in Kansas? ✓

February 1962, Central States Forest Experiment Station, Technical Report, 187
Monthly Catalog of United States Government Publications, page 1962.

Seneca, E. D.

Germination response to temperature and salinity of four dune grasses from the outer banks of North Carolina. Ecological Monographs, 50:45-53, Winter 1969. Cited: Ag Index.

Sethi, D. R.

Reclamation of the desert area of the Kapurthala State. Agri-cultural Journal of India, 17:546-550, November 1922. cited. Agriculture Index, 1922-1924.

Sherman, G. D.

Land reclamation in Hawaii; Mined-out soils can produce good pastures. Crops & Soils, 12:18-19, August 1960.

Shriver, J.

Beware: The spoilers are on the march; Waste, destruction, pollution. Recreation, 58:448-450, November 1965. Cited.

Readers Guide, 1966.

Sighler, William A.

The effects of uranium mill wastes on stream biota. Utah Agricultural Experiment Station Bulletin 462, December 1966, 75 p.

Sindhu, M. A., and A. H. Cornfield

Effect of simulated reclamation of nitrification of ammonium sulphate applied to saline and alkali soils from West Pakistan. [Great Britain] country? Journal of the Science of Food and Agriculture, 19:648-650, November 1968. Cited: Ag Index.

Smith, H. G.

Classification and revegetation of strip-mine spoil banks. Ohio Science Journal, 64(X):168-175, March 1964. Cited: Bibliography of Agriculture, 1963.

Smith, H. G.

Spoil banks and birdlife. Soil Conservation, 30:77, November 1964.

Smith, H. (V.) - correct?

Paul Bunyan plow. Crops & Soils, 2:19, February 1950. Cited.

Ag Index

(Insert A69, A70)

Soil Conservation

Strip mine makes a recreation area. Soil Conservation, 33:208-209, April 1968. Cited: Biological & Agricultural Index

1967-1968

in the 1960s

Soil Science Society of America

Physical planning in connection with land reclamation and

improvement. Review Soil Science Society of America Proceedings,23:sup vi, July 1959. Cited: Ag Index.

Soil Science Society of Florida

Reclamation and soil conservation problems of the Florida

everglades; Symposium. Soil Science Society of Florida, Gainesville,Florida, 1939-1942 Proceedings, 4-A(1942):9-118, 132-161. Cited:Ag Index

grundverbesserungen?

Sprengel, Karl

machungen und grundverbesserungen, oder:rurg aller urbarmachungen und grundverbes-Reclamation of land.
Sprengel, Karl, 1787-1839.Die lehre von den urbarmachungen und grundverbesserungen, oder: Beschreibung und erklärang aller urbarmachungen und grundverbesserungen, welche die sumpfe, brüche, hochmoore, teiche, haiden, wüstungen, wälder, sandeschollen, dünen, felsigen gründe, aecker, wiesen und wälden betreffen, von dr. Carl Sprengel ... Leipzig, J. A. Baumgärtner, 1838.
xxx, 448 p. v. fold, pl. 22^m.sümpfe, brüche, hochmoore, teiche, haiden,andschollen, dünen, felsigen gründe, aecker,

reffen. Leipzig, J. A. Baumgärtner, 1838,

448 p. Cited: Dictionary Catalog of the National AgriculturalLibrary 1862-1863

Because of date - citation should be used: h.c.

Stearn, E. W.

From gravel pit to golf course. Rock Products, 70:82-83, June1967. Cited: Applied Science and Technology Index, 1967

(Insert A71)

Struthers, P. H.

Forage seedings help reclaim acres of spoil banks. Ohio Agricultural Experiment Station, Farm & Home Research, 45:12-13, January 1960.

Struthers, P. H., and J. P. Vimmerstedt

Advances in strip^{one word}mine reclamation. Ohio Report on Research Development in Biology, Agriculture, and Home Economics, 15: 8-9, January-February 1965. Cited: Bibliography of Agriculture, 1965

INSERT
STRUTHERS ITEM
FROM p. 77

89037

Struthers, P. H., and J. P. Vimmerstedt

~~hypoth?~~ Rapid strip^{no hypen}mine reclamation. Ohio Agricultural Research Development Biology, Agriculture and Home Economics, 50(X):

84-85, 87, May 1966. Cited: Bibliography of Agriculture, 1966

85248
94603

Stuart, A.

Reclamation of tidal flat; levelling and regrassing at invercargill. New Zealand Journal of Agriculture, 55:143-146, September 1937. Cited: Ag Index, correct title? y/s

Stys, S.

Generalplan der wiederurbarmachung des nordböhmischen braunkohlen-
[Czechoslovakia]
gebietes. ~~102227~~ Ochrana Prirody, 16(2):39-46, April 1961.
Cited: Bibliography of Agriculture, 1961

Sullivan, G. D.

Current research trends in mined-land conservation and utilization. Mining Engineering, 19:63-67, March 1967. Cited: Applied Science and Technology Index, 1968

Stearn, E. W.

Gravel pits go on to greater things. Rock Products, 67:89-91,
July 1964. Cited: Applied Science and Technology Index, 1964.

Stearn, E. W.

States draft interstate mining compact. Rock Products, 69:114,
January 1966. Cited: Applied Science and Technology Index, 1966.

Stevenson, David

On the reclamation and protection of agricultural land. Edinburgh,

A. and C. Black, 1874, 70 p. Cited: Dictionary Catalog of the
National Agricultural Library, 1862-1965.

Striffler, W. D.

Restoration of open-cast coal sites in Great Britain. Journal of
Soil & Water Conservation, 22:101-103, May-June 1967. Cited:
Biological & Agricultural Index, 1967-1968.

Striffler, W. David

Surface mining disturbance and water quality in Eastern Kentucky.
International Symposium on Ecology and Revegetation of Drastically
Disturbed Areas, University Park, Pennsylvania, August 1969.**

~~Strip-mine Reclamation~~

Strip-mine reclamation, Digest (with bibliography) 1962. Veover
Pacific Southwest Forest and Range Experiment Station,
Title, 1949 p. Cited: Monthly Catalog of United States Government
Publications, July 1966, #10614.

Struthers, P. H.

Chemical weathering of strip-mine spoils. Ohio Journal of Science,
64(2):125-131, March 1964. Cited: Bibliography of Agriculture,
1964.

X Sullivan, G. D.

New science: Mined-land reclamation. Mining Engineering, 17: ^{no. 3}

142-144, July 1965. Cited: Applied Science and Technology Index
1965

(Insert A72)

~~Surface Mining Reclamation?~~

U. S. Senate, Interior and Insular Affairs Committee

Surface mining reclamation, hearings, 90th congress, 2nd session,

on (S) 3132, S. 3126, and (S) 217, April 30 to May 2, 1968. U. S. Senate,

and Insular Affairs Committee, ~~Senate~~ 1968, 375 P. ~~LC~~

68-62669. Cited: Monthly Catalog of United States Government Publications, October 1968.

Surtees, G.

Sahara reclamation. World Crops, 18:30-32, June 1966. Cited.

Biological & Agricultural Index, 1965-1966.

Szonyi, L.

Afforestation of bauxite stockpiles and slime pits. ~~(Hungarian)~~

[Hungary].
Erdészeti Kutatások, 6(3):165-206, 1959. Cited: Bibliography of Agriculture, 1960.

Takahashi, M., and others ^{OK}

Crop production trials on stripmined floor soil promise. Hawaii Agricultural Experiment Station, Farm Science, 10:2-5, July 1961.

Talati, R. P.

Field experiments of reclamation of salt lands in Baramati of Bombay deccan. Indian Journal of Agricultural Science, 17:153-174, June 1947. Cited: Ag Index

Tasker, J.

Restoration of open ^{cast} coal land. ^{Great Britain.} Journal of the Ministry of Agriculture, ^[Great Britain] 64:329-332, October 1957. Cited: Ag Index.

Taylor, E. M.

Reclamation of salt and alkaline land. Journal of the Jamaica Agricultural Society, 38:417-421, July 1934. Cited: Ag Index.

1934-1936

(Insert A73, A74, A75, A76)

Thieme, W. I.

Present status of reclamation in the sand and gravel industry. Pit and Quarry, 61:154-156+, April 1969. Cited: Applied Science and Technology Index, 1969.

Thomas, A. W., and others

Soil, water and nutrient losses from tifton loamy soil. American Society for Agricultural Engineers Transactions, 11:677-679+, September 1968. Cited: Ag Index.

Thomas, E.

Can we heal Southern West Virginia's 16,000 acres of waste land? West Virginia Conservation, 19(6):19-21, August 1954. Cited: Bibliography of Agriculture, 1955.

Thomas, Edward Ellis

Reclamation of black-alkali soils with various kinds of sulfur. Hilgardia, a Journal of Agricultural Science, 10(7): 127-142, 1936. Cited: Dictionary Catalog of the National Agricultural Library, 1862-1965.

Thomas, Edward Ellis

Reclamation of white-alkali soils in the Imperial Valley,
California. Agricultural Experiment Station, Berkeley California
Bulletin 601, July 1936, 15 p. Cited: Dictionary Catalog of the
National Agricultural Library, 1862-1965.

Thompson, L.

They stopped blowing land. Wallaces' Farmer and Iowa Homestead,
80:58-59, July 16, 1955. Cited: Ag Index.

Thor, E., and J. S. Kring

Planting and seeding of loblolly pine on steep spoil banks.
Journal of Forestry, 62:575-576, August 1964.

Times Imperial and Foreign Trade and Engineering

Land reclamation in the midlands; Removing the scars of industry.
Times Imperial and Foreign Trade and Engineering, 31:519,
March 4, 1933. Cited: Ag Index, 1931-1933

Tindall, C.

Upside-down fame. Missouri Ruralist, 91 (6):6, 24-25, April 1950.
Cited: Bibliography of Agriculture, 1950. *article starts on p. 6 -
is continued on p. 24-25*

(Insert A77)

Tomlinson, T. E.

Relationship between mangrove vegetation, soil texture and reaction
of surface soil after empoldering saline swamps in Sierra Leone.

Tropical Agriculture (BWI), 34:41-50, January 1957. *[Forest Britain]*

Ag Index
*(Butterworths Scientific Publications,
88 Kingsway,
London, W.C.2, England
British West Indies?)*

Townsend, W. N., and D. R. Hodgson

Edaphological problems associated with deposits of pulverised fuel ash. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas., University Park, Pennsylvania, August 1969.**

Tracy, L. D.

Reforesting the spoil-banks of a coal stripping pit. Mining Congress Journal, 14:101-102, February 1928. Cited: List of Journal Articles by Bureau of Mine Authors July 1, 1910 to January 1, 1960

Trimble, G. R., Jr., C. E. Hale, and H. S. Potter

Effect of soil and cover conditions in soil-water relationships. Northeastern Forest Experiment Station, Technical Papers 39, February 1951, 44 p. Cited: Bibliography of Agriculture, 1951

Tryon, E. H.

Pasture cover for spoil banks. West Virginia Agricultural Experiment Station Bulletin, 357(2):5,16, December 1952. Cited: Bibliography of Agriculture, 1952

Tryon, E. H.

Forest cover for spoil banks. West Virginia Agricultural Experiment Station Bulletin, 357(1):4, September 1952. Cited: Bibliography of Agriculture, 1952

Tryon, E. H., and R. Markus

Development of vegetation on century-old iron-ore spoil banks. West Virginia Agricultural Experiment Station Bulletin, 360, June 1953. Cited: Bibliography of Agriculture, 1953

Is this complete?
see the two
cites above.

Turner, E. P.

Reclamation of sand-dunes. Journal of Agriculture of New

Zealand, 18:148-150, March 1919. Cited: Ag Index, 1919-1924

(Insert A78)

Tyner, E. H., and R. M. Smith

The reclamation of the strip-mined coal lands of West Virginia with forage species. Soil Science Society of America Proceedings,

10:429-436, 1946. Cited: Bibliography of Agriculture, 1947

Tyner, E. H., and others

Reclamation of strip-mined areas in West Virginia. Journal of the American Society of Agronomy, 40:313-323, April 1948. Cited:

Ag Index

Udall, Stewart

The quiet crises. New York, Holt, Rinehart and Wilson, 1963.

Cited: Referred to in Readers Guide and in discussions.

U. N. Monthly Chronicle

Expert group on resource surveys; Five-year program of surveys designed as a contribution to the development decade. U. N.

Monthly Chronicle, 3:54, May 1966. Cited: Readers Guide, 1966

U. S. Atomic Energy Commission

A report of the Monticello mill-tailing erosion control project, Monticello, Utah. U. S. Atomic Energy Commission, Division of Raw Materials, Grand Junction Office, December 20, 1963, ? p. — ?

(Insert A79, A80, A81)

U. S. Bureau of Reclamation

Reclamation handbook; compendium of information on the reasons for and the development, operations, and results of conserving water and reclaiming land in the Western United States, 1942. U. S.

^{U.S.}
~~Department of the Interior~~ Bureau of Reclamation, Conservation
 Bulletin 32, 99 p.

publ. date?

Federal Water Pollution Control Administration

~~U. S. Department of Health, Education and Welfare~~

Disposition and control of uranium mill-tailings piles in the

Colorado River Basin. ~~U. S. Department of Health, Education and~~

~~Welfare~~ Federal Water Pollution Control Administration, Region

VIII, Denver, Colorado, March 1966, 36 p.

U. S. Department of the Interior, Reclamation Bureau

Tree planting on the reclamation projects. U. S. Department of

the Interior, 1928, 28 p. Cited: ~~Agricultural Index, 1928-1930~~

E 27.21771

U. S. Department of the Interior

Surface mining and our environment; ~~A~~ special report to the nation,
 with list of references.

U. S. Department of the Interior, 1967.

1244p

~~Insert A927~~ see A72

See mo. Cat.

not given

U. S. Department of State,

U. S. treaties, etc. 1953, Technical cooperation; program of re-
 forestation and dune stabilization in area between Maule and Bio-Bio

Rivers. Agreement between the United States of America and Chile,

signed at Santiago, December 30, 1953, entered into force December

30, 1953. U. S. Department of State Publications 5542, Treaties

and other International Acts Series, 2983, 16 p.

1953.

publication date?

Usui, Hiroshi, and Heima Suzuki

Ecological and ~~Re~~vegetational problems in Ashio devastated area.

International Symposium on Ecology and Revegetation of Drastically

Disturbed Areas, University Park, Pennsylvania, August 1969.**

Utah Agricultural Experiment Station

Vegetation and metal toxicity in relation to mine and mill wastes. Utah Agricultural Experiment Station Circular 148, September 1968, 75 p.

Vaden, J. H.

Vegetative problems created by massive earth-moving operations in Virginia. Journal of Soil & Water Conservation, 20:190-191, July 1965. Cited: Biological and Agricultural Index, 1963-1966.

Vajcik, V.

Reforestation of sandy soils, gravel pits, and quarries. (Czech) Les [Czechoslovakia] (Bratislava), 22(3):102-106, March 1966. Cited: Bibliography of Agriculture, 1966.

(Insert A83, A84)
Van der Meer, K.

Reclamation of dune-sand soils. Soil Science, 74:49-56, July 1952. Cited: Ag Index.

(Insert A85)

Van Schreven, D. A.

Nitrogen transformations in the former sub-aqueous soils of polders recently reclaimed from Lake Ijssel; losses of nitrogen due to denitrification and leaching. Plant & Soil, 18:163-175, April 1963.

Van Schreven, D. A.

Nitrogen transformations in the former sub-aqueous soils of polders recently reclaimed from Lake Ijssel: water-extractable, exchangeable and fixed ammonium. Plant & Soil, 18:143-162, April 1963.

Vysotzkif, G.

Reclamation of arid steppe soil and of shifting sands in the province of Astrakan, Russia. International Review of the Science and Practice of Agriculture, 7(~~18~~):1588-1596, November 1916. *cited: Ag Index, 1916-1918*

Wagner, J.

Oil-base mulches and terraces as aids to tree and shrub establishment on coastal sand dunes. Journal of Soil and Water Conservation, 22:198-201, September 1967. *cited: Ag Index,*

Waldbiesser, W. C.

Development of equipment for cost overburden reclamation. Mining Congress Journal, 54:50-51, July 1968. *cited: Engineering Index, 1969, Applied Science and Technology Index, 1968.*

Wallace, R. W.

Miracle of the copper basin in Tennessee. Christian Science Monitor Weekly Magazine Section 17; August 5, 1950. *cited: Readers Guide, May 1949-March 1951.*

Wallaces Farmer and Iowa Homestead

Crops from coal mine spoils? Wallaces Farmer and Iowa Homestead, 77:60, May 17, 1952. *cited: Ag Index*

also see Thompson on p. 81

Wallin, R. E.

Construction specifications; cut and fill. Plant Engineering, 16:159-160, June 1962. *cited: Applied Science and Technology Index, 1962.*

✓ Walter, ^{George} G. H.

550
J 52443 Recent experiences in rehabilitation of stripped lands. Journal of Farm Economics, 32:277-282, May 1950. Cited: Bibliography of Agriculture, 1950.

Walter, G. H.

Trees and grass cover half of stripped coal lands. Agricultural Situation, 34:11, September 1950. Cited: Ag Index

Walter, J.

Recent experiences in rehabilitation of stripped lands. Journal of Farm Economics, 32:277-282, May 1950. Cited: Ag Index

Walter, Wolfgang

Neue Morphologisch-physikalische Erkenntnisse über flugsand und dünen. Frankfurt am Main, W. Kramer, 1951, 34 p.

Warner, Richard ^{hyp?}

Acid coal mine drainage effects on aquatic life. International Symposium on Ecology and Revegetation of Drastically Disturbed Areas, University Park, Pennsylvania, August 1969.**

✓ Webb, K. B.

Weeping lovegrass still Vermont's sandblows. Better Crops with Plant Food, 32:11-13+, October 1948. Cited: Ag Index

42-44 ✓ Weber, L. ^{hyp? no}

Strip mine rehabilitation. Outdoors Illustrated, 18 (X):22-23, Autumn 1952. Cited: Bibliography of Agriculture, 1953.

X Weigle, W. R. *hypn 370*

Spoil bank stability in Eastern Kentucky. Mining Congress Journal,
~~52:67-78+~~, April 1966. Cited: Applied Science and Technology
Index, 1968.

X Wells, E. *Not given in author index & we don't have journal!*

1905 04541
 Florida phosphate producers combat pollution problems. Mining
Congress Journal, 54:30-34, July 1968. Cited: Engineering Index,
 1969; Applied Science and Technology Index, 1968.

(Insert A88) ✓

Wells, J. R.

2832
 The reclamation of strip mined areas in Southeastern Kansas.
Kansas Academy of Science, Transactions, 56:269-292, September
 1953. Cited: Bibliography of Agriculture, 1954.

Werner, L.

Zur frage der wiederurbarmachung bergbaulich beanspruchten gelaendes.
^[Germany]
Bergbau-Technik, 14 (X):34-38, January 1964. Cited: Engineering
Index, 1964.

Western Construction

Arizona's huge hole in the ground. Western Construction, 42 (X):
 60-65, July 1967. Cited: Engineering Index, 1968.

What's New in Crops and Soils

and hypn?
 Spoil bank soils, left alone for a century, show steady increase
 in content of nitrogen. What's New in Crops and Soils, 7:22,
 December 1954. Cited: Ag Index.

Whittfield, Charles James

Sand-dune reclamation in the Southern Great Plains. U. S.

Department of Agriculture, Farmer's Bulletin 1825, 1939, 13 p.

Cited: Dictionary Catalog of the National Agricultural Library,

1862-1965

Whitlock, R.

Restoration of the land; a report on conditions and cultivation
after open cast mining. Field, 196:772-775, November 1950. est 202

Bibliography of Agriculture, 1951

Whitt, D. M.

Surface-mined land. Soil Conservation, 33:123-125, January 1968.

Cited: Biological & Agricultural Index, 1967-1968

Whyte, Robert Orr

Reclamation of derelict land. Journal of the Ministry of
Agriculture, 56:455-457, January 1950. Cited: Ag Index

(Insert ~~202~~ A89)

Wilhelm, S., and E. Brunning

The cultural possibilities of grass and clover types as pioneer
plants in the reclamation of spoil banks in Frankfurt ^(Oder) ~~(Oder)~~

Zeitschrift für Landeskultur, 5(2):133-150, 1964. Cited:

Bibliography of Agriculture, 1965

Please use number 342
here. We don't have this.

Wilkinson, Albert Edmund

Muck crops; A book on vegetable crops raised on reclaimed land,
in some localities known as black dirt or muck. New York, Orange
Judd Company, 1916, 257 p. Cited: Dictionary Catalog of the

National Agricultural Library, 1862-1965

Williams, George P., Jr.

Site physical characteristics and spoil outslope mass instability.
International Symposium on Ecology and Revegetation of Drastically
Disturbed Areas, University Park, Pennsylvania, August 1969.**

Wilson, H. A.

Effect of vegetation upon aggregation in strip-mine spoils. Soil
Society of America Proceedings, 2:637-640, November 1957.

(Insert A91) 7

Wilson, H. A.

Strip mine spoils--They can be reclaimed. West Virginia Agri-
cultural Experiment Station Bulletin, 349:8-9, December 1951.

Cited: Bibliography of Agriculture, 1952.

Wohlrab, B.

Rekultivierung von sand- und kiesgruben. (Recultivation of
Sand and Gravel Pits) Wasser und Boden, 5:67-69, March 1953.
Cited: Bibliography of Agriculture, 1953.

Wood, R. F., R. M. G. Semple, and J. Jublin, Jr.

Tree planting on industrial sites. Chartered Surveyor, 95(11):
587-591, May 1963. Cited: Bibliography of Agriculture, 1963.

Wood, W. E.

Crops after open cast. Farmer's Weekly (London), 33(7):45,
47-48, August 18, 1950. Cited: Bibliography of Agriculture, 1951.

Wootin, H. H.

The land utilization program 1934-1964. Origin, development and
present status. (65) United States Department of Agriculture,
Economic Service, 1965, p. Bibliography Tables, Maps, & Cited
Readers Guide, 1966

date of publication?

✓ Worrall, G. A.

53
3826as
Work on improvement of saline-alkali land on the University farm,
Khartoum, 1956-1959. Journal of Agricultural Science, 57:
367-371, November 1961.

country?

(Insert ~~93A~~ 93A, 94A, 92A)

Wursten, M. L., and W. L. Powers

Reclamation of virgin black alkali soils. Journal of the American
Society of Agronomy, 26:752-762, September 1934. cited: ~~Ag~~
Index, 1934-1936

Wyatt, O. D.

Strip plating for better, faster growth. Coal Age, 60 (81):80-81,
August 1955. Cited: Engineering Index, 1955

X Young, C. A.

70
The use of vegetation to stabilize mine tailings areas at Copper
Cliff. Proceedings of the First Annual Meeting of the Canadian
Mineral Processors, Ottawa, January 21-23, 1969, p. 8-18.

X Younge, O. R.

one word?
Fertility requirements of bauxite strip soil for crop production.
Hawaii Agricultural Experiment Station, Farm Science, 10:6-8,
July 1961.

53 107
EC 746
✓ Younge, O. R., and J. C. Moomaw

Revegetation of strip-mined bauxite lands in Hawaii. Economic
Botany, 14 (4):316-330, October-December 1960. maps. cited:
Bibliography of Agriculture, 1961.

Zarger, Thomas G., James A. Curry, and John C. Allen ✓

Seeding of pine on coal spoil banks in the Tennessee Valley.

International Symposium on Ecology and Revegetation of Drastically
Disturbed Areas, University Park, Pennsylvania, August 1969.**

Zarger, T^{Thomas} G., G. W. Bengtson, J^{John} C. Allen, and D. A. Mays

The use of fertilizers to speed pine establishment on reclaimed
coal mine spoil in Northeastern Alabama: II. Field experiments. ✓

International Symposium on Ecology and Revegetation of Drastically
Disturbed Areas, University Park, Pennsylvania, August 1969.** x

(A1) Arizona Daily Star

Saving of water is target of experiment. Arizona Daily Star,
June 2, 1966. *(No section of page number given)*

(A2) Bains, S. S., and K. N. Singh

Q1 12/19
1547/1647
1547/1647
Utilization of solar radiation in desalinization of ridged
plantbeds on saline soils. Nature, 212:1391-1392, December
17, 1966. *Date is correct*

(A3) Beath, C. A.

Q1 12/19
1547/1647
1547/1647
Toxic vegetation growing on the salt marsh sandstone member
of the Morrison formation. American Journal of Botany, 30(4):
698-707, November 1943. *could this be correct?*
1705

(A4) Berg, W. A.

4181
Determining pH of strip-mine spoils. Northeastern Forest
Experiment Station, *NE-98*, 1969, 7 p.
NE-98
serial designation 4181

(A5) Bernstein, Leon

Salt tolerance of plants. U. S. Department of Agriculture
Information Bulletin 283, December 1964, 23 p.

(A6) Bernstein, Leon

Salt tolerance of grasses and forage legumes. U. S.
Department of Agriculture Information Bulletin 194, 1958, 7 p.

(A7) Biddulph, O., F. S. Nakuyama, and R. Cory

Transpiration stream and ascension of calcium. Plant
Physiology, 36(4):429-436, July 1961.

- (A8) ³⁵⁵⁸⁰
⁸²⁷⁰⁸ Bramble, W. C., and R. H. Ashley *lyph? no* *stet*
Progress report on spoil bank planting, Fall 1949. Pennsylvania
Agricultural Experiment Station Progress Report 24, 1950, 6 p. *Stet*
- (A9) Brown, J. H., and E. H. Tryon
Establishment of seeded black locust on spoil banks. West ✓
Virginia Agricultural Experiment Station Bulletin 440, 1960, p.34. *Stet*
- (A10) Byrd, Robert C.
A new program for West Virginia. Congressional Record, May 29, ✓
1968, 3 p. *Y*
- (A11) Chang, C. W., and H. E. Dregne *res. and reports*
Reclamation of salt-~~and~~ sodium-affected soils in the Mesilla
Valley. New Mexico Agricultural Experiment Station Bulletin 401, *Stet*
1955, 27 p.
- (A12) Chemical Engineering ✓
Chemical conditioners upgrade soil quality. Chemical Engineering,
75:66-68, October 21, 1968. *X*
- (A13) Chemical Engineering
Soil improved with chemical conditioners. Chemical Engineering,
75:70-71, October 21, 1968.
- ^K
(A14) Chenig, D.
Addendum to the promotion of a vegetative cover on mine slimes ✓
dams, and sand dumps. Journal of the South Africa Institute of
Mining and Metallurgy, 63:212-213, 251-253, May 1960. *Y*

(A15) de' Sigmond, A. A. J.

Hungarian alkali soils and methods of their reclamation California
Agricultural Experiment Station Publication, 1927, 156 p.,
(No publication number given).

(A16) Elby, L. K., and C. J. Whitfield

Soil and erosion changes on the Dalhart Sand Dune Area. American
Society of Agronomy Journal, 32:290-296, April 1940.

(A17) El Paso Times

Tiny bug with healthy appetite may clean polluted waterways.
El Paso Times, June 26, 1970.

(A18) El Paso Times

Wasteland created by strip-mining can easily be reclaimed. El
Paso Times, 6-D, June 11, 1970.

(A19) Franklin, W. R., and others

Reclamation and management of saline-sodium soils, Mosca-Hooper
Area, San Luis Valley. Colorado Agricultural Experiment Station
General Series Paper 667, 1957, 28 p.

(A20) Fritschen, Leo J.

Evapotranspiration rates of field crops determined by the Bowen
ratio method. Agronomy Journal, 58:339-3442, 1966.
May-June
month?

(A21) Fritschen, Leo J., and C. H. M. van Bavel

Energy balance components of evaporating surfaces in arid lands.
Journal of Geophysical Research, 67:5179-5185, December 1962.

(A22) Fritschen, Leo J.

Accuracy of evapotranspiration determinations by the Bowen
ratio method. I. A. S. H., 10(1):38-40, 1965.
International Association of Scientific Hydrology.

4
(A23) Fuller, Wallace H.

Water, soil, and crop management principles for the control of salts. Arizona Agricultural Experiment Station Bulletin A-43, reprinted July 1967, 21 p.

(A24) Grandt, A. F., and A. L. Lang

Reclaiming Illinois strip coal land with legumes and grasses. Illinois Agricultural Experiment Station Bulletin 628, 1958, 64 p.

(A25) Gwynn, Thomas A.

An improved environment through intelligent mined-land reclamation. Rocky Mountain Minerals Conference, Salt Lake City, Utah, September 17-19, 1969, 81 p.

(A26) Gwynn, Thomas A.

Reclaiming strip-mined lands in North Dakota by establishing game management areas. Bismarck, North Dakota, Knife River Coal Mining Company, January 1965, 36 p.

(A27) Hart, G. E., and W. R. Byrnes

Several tree species succeed on coal-stripped lands. Pennsylvania Agricultural Experiment Station Science for the Farmer, Summer, 1959, 5 p.

(A28) Hausenbuiller, R. L.

Materials for alkali soil reclamation. Washington Agricultural Experiment Station Circular 304, 1957, 7 p.

(A29) Hereford Journal

Geared to grass herefords get fat over old strip mines. Hereford Journal, 41:56-57, 171, October 15, 1950.

(A30) Hoffman, G. J., and others

Annotated bibliography on slope stability of strip-mine spoil banks. Ohio Agricultural Experiment Station Research Circular 130, 1964, 92 p.

(A31) Hsieh, J. J. C., and R. C. Wilding

Bentonite stabilization of soil to resist wind erosion. Soil Science Society of America Proceedings, 33:637-638, 1969.

(A32) Jackson, Ray D.

Porosity and soil-water diffusivity relations. Soil Science Society of America Proceedings, 27:123-126, March-April 1963.

(A33) James, A. L.

Stabilization of surfaces of mine-tailings dumps. South African Mining and Engineering Journal, 1022-1023, 1025, 1027, 1029, October 9, 1964.

(A34) James, A. L.

A survey of the work of the Chamber of Mines on the stabilization of the surfaces of mine-tailings dumps. Conference on the Implications of Air Pollution Control, Durban, September 1964, 13 p. Commonwealth Scientific and Industrial Research Organization

(A35) Jarvis, W. T., and W. L. Beers

Reclamation of a wasteland in Central Gulf Coastal Florida. Journal of Forestry, 63:3-7, January 1965.

(A36) Katchalsky, Aharon

Living membranes. Science and Technology, 52-60, December 1967,

(No volume number is given on the spines of volumes)

(A37) Knape, W.

Reclamation of lands stripped for brown coal. (Translation and condensation by M. P. Koller). Ohio Agricultural Experiment Station, Forestry Department Series 49, 1962, 11 p.

(A38) Landscape Architecture

Landscape reclamation. Landscape Architecture, January 1966, Special issue. *vol. no. must be vol. 55*

(A39) Limstrom, G. A., and G. H. Deitschman

Reclaiming Illinois strip-coal lands by forest planting. Illinois Agricultural Experiment Station Bulletin 547, 201-250, 1951.

(A40) Lowdermilk, W. C.

Conquest of the land through seven thousand years. U. S.

Department of Agriculture, Agriculture Information Bulletin 99, 1953, 30 p.

Don, this is interesting reading - quite upsetting to realize how man has been able to have good production areas where has destroyed same.

#44 here - (1955)

(A41) Lowry, G. L.

Alder appears promising as spoil bank tree planting. Ohio Agricultural Experiment Station, Farm & Home Research, 46:154, July 1961.

(A42) Lowry, G. L.

Conifer growth is best on acid spoils. Ohio Agricultural Experiment Station, Farm & Home Research, 45:44, May 1960.

(A43) Lowry, G. L., and J. H. Finney

Lysimeter for studying the physical and chemical changes in weathering coal spoil. Ohio Agricultural Experiment Station, Research Circular 113, 1962, 17 p.

(A44) Lowry, G. L.

Conifer growth and survival varies on acid spoils. Ohio
Agricultural Experiment Station, Farm & Home Research Bulletin
311, 20-21, March 1958.

(A45) Lundy, H. L., and B. J. Greenfield

Lime slurry injection for deep soil stabilization. Public Works,
75:9, November 1969.

X (A46) McNay, Lewis M.

Surface-mine reclamation, Moraine State Park, Pennsylvania.
U. S. Bureau of Mines Information Circular 8456, 1970, 4 p.

(A47) Martin, J. P., and H. D. Chapman

Volatilization of ammonia from surface-fertilized soils. California
Agricultural Experiment Station Paper 652, 25-34, May 13, 1950.

(A48) Mellinger, Ross H., Frank W. Glover, Jr., and John G. Hall

*Revised
Summary*

Results of revegetation of strip-mine spoil by soil conservation
districts in West Virginia. West Virginia Agricultural Experiment
Station Bulletin 540, December 1966, 18 p.

(A49) Minerals Processing

Let's look at our image. Minerals Processing, 10-11,
November 21, 1969.

*Eng. Dept
started 1960*

*vol. 9
p. 10-11*

X (A50) Minotti, P. L., Doris Craig Williams, and W. A. Jackson

*SB 183
C 883A*

Nitrate uptake by wheat as influenced by ammonium and other
cations. Crop Science, 9:9-14, January-February 1969.

this is on Title page.
Fellow. Am. Soc. Civil Engineers.

(A51) Myers, Lloyd E., F. ASCE, Cary W. Frasier, and John R. Griggs ✓

Sprayed asphalt pavements for water harvesting. Journal of the Irrigation and Drainage Division, Proceedings of the American Society of Civil Engineers, 93:79-97, September 1967.

(A52) Myers, Lloyd E.

Water harvesting with plastic films. Sixth National Agricultural Plastic Conference, Phoenix, Arizona, November 16-18, 1965, p. 31-34.

(A53) Myers, Lloyd E.

Waterproofing soil to collect precipitation. Journal of Soil and Water Conservation, 16(4):218-282, November-December 1961.

(A54) Nature

Area of urea on the activity of dehydrogenases and x-glucosidase in aerobacter aerogenes grown in continuous culture. Nature, 221:969-971, March 8, 1969. OK

(A55) Nature

Circulation of water in soil under a temperature gradient. Nature, 205(4994):314-316, July 16, 1965.

OK. Not used in other cites for Nature

✓ (A56) Nature

9/14/19 Non-enzymatic formation of nitrogen gas. Nature, 210:1150-1151, June 11, 1966.

(A57) Olsen, S. R., W. D. Kemper, and R. D. Jackson ✓

5590
5034 Phosphate diffusion to plant roots. Soil Science Society of America Proceedings, 26(2):222-227, May-June 1962.

no month not given in other cites see p. 83 of biblio. 113

(A58) Orton, C. R., and S. L. Galpin

Approved drainage, grading, and planting for strip-mined lands.

West Virginia Agricultural Experiment Station, Mimeographed
Circular 55, 1945, 6 p.

X (A59) Peterson, Howard B., and Ralph Monk

Vegetation and metal toxicity in relation to mine and mill

is this an annotation on part of the title?
wastes: (An annotated bibliography useful in evaluating available literature. Utah Agricultural Experiment Station, Circular 148, September 1967, 75 p.

(A60) Philip, J. R.

The gain, transfer, and loss of soil water. National Symposium on Water Resources, Use and Management, Canberra, Australia, September 9-13, 1963, 2 p.

X (A61) Plant & Soil

SBP RHAS
Effect of urea on the germination and yield of jute (Corchorus capsularis). Plant & Soil, 29 (X):471-473, December 1968.
this is the balanced name of the jute

(A62) Plass, William T.

Pine seedlings respond to liming of acid strip-mine spoil.

Northeastern Forest Experiment Station, NE-103, 1969, 8 p.

(A63) Reeve, R. C., and others

stat
Reclamation of saline-alkali soils by leaching, Delta Area, Utah.

Utah Agricultural Experiment Station Bulletin 335, 1948, 52 p.

X(A64) Royer, A. E.

Reclamation of drainage ditch spoil through use of fertilizer & lime. Georgia Agricultural Experiment Station, Georgia Agricultural Research, 2:4-5, Spring 1961.

X(A65) Salt Lake Tribune

Kennecott test spurs to fight tailing dust. Salt Lake Tribune, April 10, 1969, p. 14. Section A p 14.

(A66) Sauchelli, V.

Eight Florida phosphate firms join in restoration of scarred land. Agricultural Chemistry, 20:27-28+, June 1965.

(A67) Sandsten, E. P.

Reclaiming nitre soil in the Grand Valley, Colorado. Colorado Agricultural Experiment Station Bulletin 235, 1917, 8 p.

✓(A68) Schultz, D. A.

Interim report on accomplishments of cooperative administrative study to rehabilitate phosphate strip-mined sites. U. S. Forest Service, Caribou National Forest, December 1969.

Final report due 1971

pages?

(A69) Smith, R. M., and E. H. Tyner

Reclaiming strip-mine spoil banks. West Virginia Agricultural Experiment Station Mimeographed Circular 53, 1945, 6 p.

(A70) Snyder, R. S., and others

Alkali reclamation investigations. Idaho Agricultural Experiment Station Bulletin 233, 1940, 34 p.

(A71) Struthers, P. H.

180,000 strip mine acres: Ohio's largest chemical works. Ohio
Agricultural Experiment Station, Farm & Home Research, 46:52-53,
 July 1961.

✓ (A72) *as Interior Dept.* ~~Surface Mining and Our Environment~~ *Publishing agency or author*
 Surface mining and our environment. (Special report to nation, with
 list of references) 1967. ~~Cited: Monthly Catalog of United States~~
Government Publication, September 1967, II, 2:M66/3, 124 p.
 14201

(A73) Tennessee Valley Authority

Reclamation brings wildlife back to paradise strip mine.
Tennessee Valley Authority, 1969, 8 p.

(A74) Tennessee Valley Authority

Water control, Key to reclaiming mountain strip mine, Morgan
 County, Tennessee. Tennessee Valley Authority, 1969, 8 p.

✓ (A75) Thiele, Paul F.

Recent developments in mining land rehabilitation in Georgia.
 Sanderville, Georgia, Thiele Kavlin Company, ~~no date~~, 4 p.
It was in the paper when I got the life

(A76) Thieme, W. I.

Present states of reclamation in the sand and gravel industry.
Mining Environmental Conference, University of Missouri, Rolla,
 April 16-18, 1969, p. 116-126.

(A77) Toenges, Albert L.

Reclamation of stripped coal land. U. S. Bureau of Mines,
Reports of Investigations 3440, 1939, 11 p.

(A78) Turner, Tom

Omit - not balanced
New mine ahead of schedule. Arizona Daily Star, November 25, 1966.

(No section or page number given on clipping)

(A79) U. S. Bureau of Mines.

U. S. Bureau of Mines, Year?

Gypsum. Minerals Yearbook, 5-6, 1969.

16077 (1969) by Paul L. Allsman.

see note on back of this page entry reads:
Gypsum; [by Paul L. Allsman] [1969] [27] + 8 p. [Preprint from Minerals Yearbook, 1968. D28.37/a. 698/968]

(A80) U. S. Bureau of Mines, 1968.

D28.37/a. 698/968

Waste disposal costs at two coal mines in Kentucky and Alabama.

U. S.

~~U. S. Department of Interior~~ Bureau of Mines Information Circular

8408, 1969, 28 p.

6

(A81) U. S. Bureau of Mines

Waste disposal costs of a Florida phosphate operation. U. S.

~~U. S. Department of Interior~~ Bureau of Mines Information Circular 8408.

1969, 24 p.

(A82) U. S. Department of the Interior

Tree planting on the reclamation projects. U. S. Department of the Interior, 1928, 28 p.

duplicate

publishing if possible, a bureau or agency in the ~~USDI~~ should be given (e.g., USBM is also in the Interior Dept.)

(A83) van Bavel, C. H. M., and Leo J. Fritschen

Energy balance of bare surfaces in an arid climate. Methodology of plant eco-physiology. Proceedings, ~~Montpellier~~ Montpellier Symposium,

1965, UNESCO, 99-107 (p.).

(A84) van Bavel, C. H. M., and others

Surface energy balance in arid lands, agriculture 1960-1961. U. S. DA
Dept. of Agriculture
Agricultural Production Research Report 76, 1963, 46 p.

Prod.

*they. Ag. Bureau
Field of Agri-
culture*

Publisher?

The USBM Minerals Yearbooks ^{are} issued ~~at~~ at irregular intervals although each refers to a particular year, E. g. the Minerals Yearbook 1968 was published in 1970. As this cite reads, one cannot tell which Minerals Yearbook is intended — 1969 is obviously the publication date (MY 1969 has not been published yet) but the subject year has to be indicated also.

Minis Bureau ~ List of Pub. 1910-1960.

I 28.5

I 28.27

Inf. Circ.

I 28.23

Rept. of Invest.

I 28.37

Minerals yearbook.

(A85) Van L
VanLandingham, A. H.

*5622
3826a*
Mined area restoration today. Journal of Soil & Water Conservation,
20:185-186, July 1965. Cited: Biological & Agricultural Index,
1965-1966.

(A86) van't Woudt, B. S. and G. Uehara

*or one word or solid?
hyphe*
Erosion behavior and control on a strip-mined latosolic soil.
Hawaii Agricultural Experiment Station Technical Bulletin 46,
1961, 36 p.

(A87) van't Woudt, B.

*or solid?
one word?*
Erosion control on strip-mined land. Hawaii Agricultural
Experiment Station, Farm Science, 10-11, July 1961.
*vol. and/or no.?
10: 10-11*

(A88) Wells, Earl

Voluntary land reclamation in the Florida phosphate industry.
Mining Environmental Conference, University of Missouri, Rolla,
April 16-18, 1969, p. 110-115.

(A89) Whyte, Robert Orr, and J. W. B. Sisam

The establishment of vegetation on industrial waste land.
Aberystwyth, Wales, Commonwealth Bureau of Pastures and Field Crops,
1949, 78 p.

(A90) Whyte, R. O.

duplicate
Reclamation of Derelict Land. Journal of the Ministry of
Agriculture, 56:455-457, January 1950.

13484 - peck up above below -
38281
44828
-68937
#4747
14
95262

(A91) Wilson, H. A., and G. Stewart

Does
Number of bacteria, fungi, and actinomycetes in some strip-mine
spoil. West Virginia Agricultural Experiment Station Bulletin

388T:4016, 1956.

yes, 15 p.

nr. of pages?

yes, 15 p.
not by

(A92) Wullstein, LeRoy H., and C. M. Getlmoor

Mon-enzymatic gaseous loss of nitrite from clay and soil systems.

Soil Science, 97:428-430, June 1964.

no, probably not necessary
I agree -

(A93) Wullstein, LeRoy H.

Reduction of nitrates deficits by alkaline metal carbonates.

Soil Science, 108:222-226, September 1969.

(A94) Wullstein, LeRoy H.

Soil nitrogen volatilization. Agricultural Science Review, 5(2):
9-11, Second Quarter 1967.

(A95) Wullstein, LeRoy H., University of Utah

Urea toxicity and seedling germination. Correspondence to Mr.
Karl C. Dean, June 13, 1969.

Wilson, H. A., and Stewart G.

Ammonification and nitrification in a strip mine spoil
West Virginia Agricultural Experiment Station Bulletin 379T. 16 p.
9. 1955.

Abel, J. F. 1969.

At no cost to the taxpayer. Mining
Engineering, 21:46-47, November.

with 46/52

Add to Bibliography