

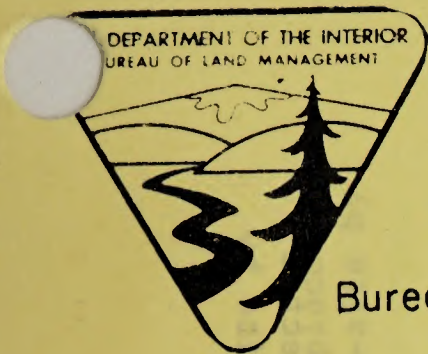
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TECHNICAL NOTE

Mailing List 1

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Date Issued MAY 23 1970

Bureau of Land Management U.S. DEPARTMENT OF THE INTERIOR

Subject: Reclamation of Mined-Lands

The following State Highway Departments, usually with financial assistance from the Bureau of Public Roads (Department of Transportation), are sponsoring experimental projects by state universities. Some of this work would be applicable to the problems of mined-land reclamation.

California Division of Highways
P. O. Box 1499
Sacramento, California 95809

Work is currently under way at the University of California, Davis, seeking methods of establishing drought-tolerant perennial plants by direct seeding.

Montana Highway Commission
Helena, Montana 59601

Revegetation research work is being done at the Agricultural Experiment Station, Montana State University, Bozeman, Montana; the project is to be completed by December 1969.

Nevada State Highway Department
Carson City, Nevada 89701

Studies have been made over the past three years by the Plant Service Department, University of Nevada, Reno, Nevada to determine adaptability of exotic and native plants to disturbed sites (cuts, fills, median strips). Another revegetation study project is being proposed with the Soil Conservation Service, U. S. Department of Agriculture.

New Mexico State Highway Department
Santa Fe, New Mexico 87501

Cooperative experiments on revegetation methods are underway with the Plant Experimental Station, New Mexico State University, Los Lunas, New Mexico and the Soil Conservation Service, U. S. Department of Agriculture.

RECLAMATION RESEARCH PROJECTS - WESTERN U. S.

	<u>Location</u>	<u>Mineral</u>	<u>Company</u>	<u>Description</u>
<u>Arizona</u>				
A-1	<u>MIAMI</u> REF: <u>Util. & Stabil. of Solid Mineral Wastes.</u> Dean, Havens and Valdez, U. S. Bureau of Mines, 1969, p. 9.	Copper	Miami Copper Company	Vegetative stabilization of tailings. Research by U. S. Bureau of Mines.
-2	<u>TUBA CITY</u> REF: Personal communication-Karl Dean, U. S. Bureau of Mines.	Uranium	El Paso Natural Gas	Chemical stabilization of tailings.
-3	<u>TUCSON (20 miles SW)</u> REF: Arizona Republic, November 18, 1968.	Copper	Anaconda Company	Vegetative stabilization of tailings pond dikes. Twin Buttes Mine.
<u>Colorado</u>				
B-1	<u>CLIMAX</u> REF: Personal communication-Dr. Berg, Colorado State University, Master's Thesis, Hayes F. Grubb, 1965.	Molybdenum	American Metal Climax	Vegetative stabilization of tailings. Studies on-site by Dr. Berg.
-2	<u>COLORADO SPRINGS (20 miles N)</u> REF: Personal communication-Dr. Berg, Colorado State University.	Limestone	Castle Concrete	Revegetation of affected area. Studies on-site by Dr. Berg.

	<u>Location</u>	<u>Mineral</u>	<u>Company</u>	<u>Description</u>
B-3	<u>CRIPPLE CREEK</u> REF: Personal communication-Dr. Berg, Colorado State University.	Gold	?	Revegetation of old placer tailing. Studies on-site by Dr. Berg.
-4	<u>DURANGO</u> REF: Personal communication-Dr. Berg, Colorado State University.	Uranium	Vanadium Corp. of America	Revegetation of old tailings.
-5	<u>GRAND JUNCTION</u> REF: Personal communication-Dr. Berg, Colorado State University.	Uranium	American Metal Climax	Revegetation of old tailings.
-6	<u>HAYDEN-OAK CREEK</u> REF: <u>Coal Age</u> , October 1966, pp. 100-107; personal communication-Dr. Berg, Colorado State University; USGS Memo of July 18, 1966.	Coal	Energy Coal Co.; Pittsburgh and Midway; Peabody Coal Company	Revegetation of spoils and affected areas. Edna, Osage, Seneca and Energy Mines.
-7	<u>MAYBELLE</u> REF: Personal communication-Dr. Berg, Colorado State University.	Uranium	Union Carbide	Revegetation of spoils and affected areas.
-8	<u>RIFLE</u> REF: Personal observation.	Uranium	Union Carbide	Revegetation of old and current tailings.
-9	<u>TELLURIDE</u> REF: Personal observation.	Gold	Idarado Mining Company	Revegetation of tailings.

	<u>Location</u>	<u>Mineral</u>	<u>Company</u>	<u>Description</u>
<u>Idaho</u>				
C-1	<u>KILGORE</u> REF: BLM Files--Memo- Ed Barnes, Idaho State Office, June 9, 1965.	Phosphate	Simplot Company	Revegetation of spoils. Gay Mine, Conda Mine. Working with USFS.
-2	<u>SODA SPRINGS</u> REF: See above.	Phosphate	Monsanto Chemical	Revegetation of spoils. Ballard Mine. Working with USFS.
<u>Montana</u>				
D-1	<u>COLSTRIP</u> REF: Personal communica- tion-Richard Hodder, Montana State University; Progress Report, 1968.	Coal	Western Energy Company	Converted to wildlife habi- tats, ponds. Research car- ried out by Montana State University.
-2	<u>ANACONDA</u> REF: <u>Util. and Stabil. of</u> <u>Solid Mineral Wastes.</u> Dean, Havens and Valdez, U. S. Bureau of Mines, 1969, p. 6.	Copper	Anaconda Company	Physical stabilization of wastes. Research by USBM.

	<u>Location</u>	<u>Mineral</u>	<u>Company</u>	<u>Description</u>
<u>Nevada</u>				
E-1	<u>MCGILL</u> REF: U. S. Bureau of Mines--RI-7261.	Copper	Kennecott Copper Corporation	Chemical and vegetative stabilization of tailings. Research by U. S. Bureau of Mines.
<u>New Mexico</u>				
F-1	<u>GALLUP</u> REF: Personal communica- tion-Alten Grandt, Peabody Coal Company.	Coal	Pittsburgh and Midway	Revegetation of spoils.
-2	<u>QUESTA</u> REF: <u>Pay Dirt</u> , June 23, 1969, p. 21.	Molybdenum	Molybdenum Corp. of America	Trout planted in tailings impoundment runoff (Turquoise Lake).
-3	<u>SILVER CITY (TYRONE)</u> REF: <u>Pay Dirt</u> , June 23, 1969, p. 21.	Copper	Phelps Dodge	Trout planted in reservoir (Mangas Lake).
<u>North Dakota</u>				
G-1	<u>BEULAH</u> REF: Company Progress Reports, January 1, 1965 and July 15, 1966.	Coal	Knife River Coal Company	Leveling and revegetation spoils.
-2	<u>STANTON</u> REF: Personal communica- tion-Thomas A. Gwynn, Knife River Mining Company.	Coal	Consolidated Coal Company	Revegetation of spoils, using bucket-wheels in mining.

	<u>Location</u>	<u>Mineral</u>	<u>Company</u>	<u>Description</u>
<u>Utah</u>				
H-1	<u>CEDAR CITY</u> REF: Personal communication-Dan Jones, Mineral Specialist, Utah State Office.	Iron	Utah Construction Company	Seeded spoils with wheat-grasses, 1968. Working with BLM, Cedar City District Office.
-2	<u>MONTICELLO</u> REF: U. S. Atomic Energy Commission--RMO-3005.	Uranium	U. S. Atomic Energy Commission	Revegetation of old tailings. AEC project.
-3	<u>SALT LAKE CITY</u> REF: Personal communication-Karl Dean, U. S. Bureau of Mines.	Uranium	Vitro	Chemical stabilization of tailings.
<u>Wyoming</u>				
I-1	<u>ATLANTIC CITY</u> REF: Riverton Ranger June 19, 1969, p. 8-B, 11-D and 5-C.	Iron	U. S. Steel Corporation	Seeding test on spoils dumps.
-2	<u>GAS HILLS</u> REF: Riverton Ranger June 19, 1969, p. 17; personal observation. See also <u>Util. and Stabil. of Solid Mineral Wastes</u> , U. S. Bureau of Mines, 1969, p. 12.	Uranium	Union Carbide	Stockpiling topsoil, testing seeds.

	<u>Location</u>	<u>Mineral</u>	<u>Company</u>	<u>Description</u>
I-3	<u>GLENROCK</u> REF: USGS Memo of July 18, 1966.	Coal	Pacific Power and Light	Spoils leveled and seeded. Wyoming Lease 0385974 and 038602.
-4	<u>HANNA</u> REF: Riverton Ranger June 19, 1969, p. 6-B and 12-B.	Coal	Big Horn Coal Company	Leveling and seeding spoils.
-5	<u>KEMMERER</u> REF: University of Wyoming Master's Thesis, Lujan, 1966; Jacoby, 1968; Thompson, 1969.	Coal	Kemmerer Coal Company	Revegetation of spoils. Trees, shrubs, grasses. Working with the University Wyoming, Dr. May.
-6	<u>SHERIDAN</u> REF: Riverton Ranger June 19, 1969, p. 6-B and 12-B.	Coal	Big Horn Coal Company	Spoils revegetated, ponds stocked with fish. Working with the Wyoming Fish and Game Commission.
<u>Washington</u>				
J-1	<u>CENTRALIA</u> REF: Personal communica- tion-Gerald Thorsen, Geo- logist, State Department of Natural Resources (Washington).		Washington Irri- gation and De- velopment Co.	Problem with erosion, mon- soon rains!

Utah State Department of Highways
State Office Building
Salt Lake City, Utah 84114

Experimental work is being done statewide on revegetation of cuts, fills, median strips and borrowpits by the Agricultural Experiment Station, Utah State University, Logan, Utah.

Prepared by Tom H. W. Loomis, Mineral Specialist, Denver Service Center.

Please send any additional references on this subject or other minerals subjects to DSC (D-310). If the complete article or publication is needed, DSC (D-310) will attempt to obtain a copy or a loan for you.