

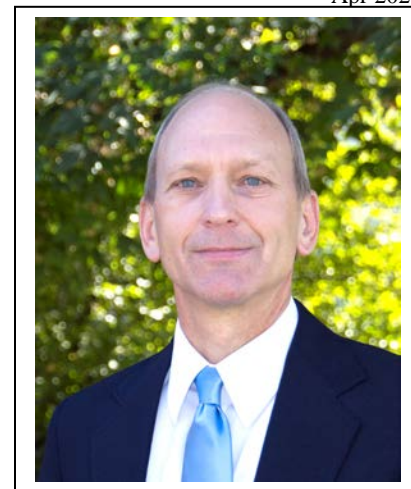
# JEFFREY G. SKOUSEN

Apr 2021

## Professor of Soil Science Extension Land Reclamation Specialist

3112 Agricultural Sci. Bldg.  
West Virginia University  
Morgantown, WV 26506-6108  
Ph. 304-293-2667  
E-mail: [jskousen@wvu.edu](mailto:jskousen@wvu.edu)

<http://www.davis.wvu.edu/faculty-staff/directory/jeffrey-skousen>  
<https://extension.wvu.edu/natural-resources>



## Educational Background:

- Ph.D.** Texas A&M University, Range Science Department. 1985. GPA 3.6 (A=4.0).  
Dissertation: Inter-seeding to Modify Reclaimed Bermudagrass Pastures on Lignite Mine Soils.
- M.S.** Brigham Young University, Botany and Range Science Department. 1982. GPA 3.6 (A=4.0).  
Thesis: Restoring Big Game Range in Utah.
- B.S.** Brigham Young University, Botany and Range Science Department. 1981.
- A.S.** Brigham Young University, Music Department, Piano Technology. 1981.

## Awards and Offices:

- 1991 Junior Faculty Certificate of Merit, WVU Chapter of Gamma Sigma Delta.  
1993 Conservation Education Award, Monongahela Soil Conservation District.  
1993 Outstanding Faculty Teaching and Advising, West Virginia University Agriculture and Forestry Council.  
1993 Honorary State FFA Degree, West Virginia Future Farmers of America Organization.  
1994 University Beginning Service Award (Heebink), West Virginia University.  
1996 Honorary American FFA Degree, National Future Farmers of America Organization.  
1997 Outstanding Service Award, College of Agriculture and Forestry, West Virginia University.  
1999 Reclamation Researcher of the Year, American Society for Surface Mining and Reclamation.  
2001 Outstanding Service to Chapter, WVU Chapter of Gamma Sigma Delta.  
2001 Outstanding Service Award, WVU Division of Plant and Soil Sciences.  
2002 Outstanding Research Award, WVU Division of Plant and Soil Sciences.  
2004 Senior Faculty Certificate of Merit, WVU Chapter of Gamma Sigma Delta.  
2006 Lifetime Conservation Service (Frank Glover Award), Monongahela Conservation District.  
2009 Outstanding Researcher, Division of Plant and Soil Sciences, West Virginia University.  
2009 Outstanding Teacher, Division of Plant and Soil Sciences, West Virginia University.  
2011 Honorary American FFA Degree, National FFA Association.  
2013 Outstanding Researcher, College of Agriculture, Natural Resources and Design, West Virginia University.  
2014 Heebink University Career Service Award. West Virginia University.  
2015 Golden Auger Award, WV Assoc. of Professional Soil Scientists  
2015 WT Plass Lifetime Achievement Award, American Society for Mining and Reclamation.  
2016 VIP Award, West Virginia Future Farmers of America Organization.  
2017 Outstanding Service Award, WVU Division of Plant and Soil Sciences  
2017 Outstanding Service Award, College of Agriculture, Natural Resources and Design, West Virginia University.  
2019 Soil Science Applied Research Award, Soil Science Society of America.
- 1991 President, American Society for Surface Mining and Reclamation.  
1994 President, Soil and Water Conservation Society, West Virginia Chapter.  
1996 President, Gamma Sigma Delta, West Virginia University Chapter.  
1996-02 Associate Editor, Journal of Environmental Quality, Soil Sci. Soc. Am., Madison, WI.  
2004 President, American Society of Mining and Reclamation.  
2004-21 Editor, Reclamation Matters, American Society of Mining and Reclamation.

## **Funded Proposals-Grants:**

### **Principal Investigator: Total 30**

- 1 1983-85 **Reclamation of Lignite Overburden in Texas.** Texas Utilities Generating Company. \$70,000.
- 2 1986-87 **Update of AMD Bulletin.** Surface Mine Drainage Task Force. \$6,000.
- 3 1986-89 **Sludge Applied to Reclaimed Minesoils.** Anker Energy Corp. \$1,500.
- 4 1987-88 **Methods of Measuring Forage Production on Minesoils.** USDI-Office of Surface Mining. \$18,700.
- 5 1988-91 **Reclamation of Abandoned Mine Lands.** USDI - National Mine Land Reclamation Center. \$85,000.
- 6 1989-90 **Organization of the 7th ASSMR Meeting.** WVU Water Research Institute. \$13,781.
- 7 1989-90 **Organization of the 1990 ASSMR Conference.** USDI-Office of Surface Mining. \$15,000.
- 8 1989-90 **Preparation and Mailing of Conference Program.** USDI-Bureau of Mines. \$21,450.
- 9 1989-97 **Land Application of Wastewater Sludges.** WV Division of Environmental Protection. \$270,000.
- 10 1989-97 **Evaluation of Reclamation Technologies.** USDI, National Mine Land Reclamation Center. \$510,000.
- 11 1991-93 **Treatment of Wastewater on Mined Lands.** WVU Extension Service. \$40,000.
- 12 1993-96 **Treatment of AMD by Anoxic Limestone Drains/Wetlands.** USDI-Bureau of Mines. \$182,000.
- 13 1993-95 **Wetland Plant Selection for Wastewater Treatment.** WVU Extension Service. \$44,460.
- 14 1993-97 **Remining as a Strategy to Reduce AMD.** USDI, National Mine Land Reclamation Center. \$95,000.
- 15 1996-97 **Hydraulic Conductivity of Ash Mixtures and Effects on AMD.** Anker Energy Corporation. \$22,694.
- 16 1996-98 **Open Limestone Channels for AMD Treatment.** USDI, National Mine Land Reclamation Ctr. \$167,000.
- 17 1997-98 **Growth of Forages in Hydraco Ash.** Patriot Mining Co. \$2,500.
- 18 1998-01 **Tree Growth on Reclaimed Mountaintop Removal Land in Southern West Virginia.** Arch Coal. \$25,000.
- 19 1998-99 **Evaluation of Reclamation Projects.** WV Division of Environmental Protection. \$69,500.
- 20 1999-01 **Prediction of AMD by Acid-Base Accounting.** OSM-ADTI. \$70,000.
- 21 2000-01 **Evaluation of WVDEP Passive Treatment Systems.** WV Division of Environmental Protection. \$40,000
- 22 2001-16 **Reforestation Practices on Mountaintop Surface Mines in West Virginia.** Arch Coal, \$250,000.
- 23 2002-07 **Native Plants for Highway Planting.** WV Division of Highways. \$475,000.
- 24 2006-13 **Tree Survival and Growth in Amended Topsoil Substitutes.** ICG-Eastern, \$65,000.
- 25 2008-10 **Hardwood Tree Growth Using FRA in West Virginia.** OSMRE, \$36,500.
- 26 2011-14 **Using Coal Combustion Products for Reclamation in Korea.** MIRECO of Korea, \$90,000.
- 27 2013-14 **Planting Bioenergy Crops at MWV and The Wilds.** NEWBio, \$20,000.
- 28 2015-17 **Tree and Shrub Plantings on Reclaimed Lands.** OSMRE, \$140,000.
- 29 2016-18 **Mine Soil Health.** NRCS, \$68,897.
- 30 2018-23 **Liming Acid Soils in Monongahela National Forest.** US Forest Service, \$219,000.

### **Co-Investigator: Total 40**

- 1 1990-93 **Metals Removal from AMD using Ammonia/Wetlands.** Sexstone, PI. USDI/NMLRC. \$78,694.
- 2 1991-93 **Characterization of Minesoil for Wastewater.** Sencindiver, PI. WVU Water Research Inst. \$208,000.
- 3 1991-93 **Chemical Risk Assessment of Sediments in Mining.** Renton, PI. USDI/Bureau of Mines. \$179,657.
- 4 1991-93 **Hydrologic Modeling for Watershed Restoration.** Fletcher, PI. USDI/NMLRC. \$142,483.
- 5 1991-95 **Use of Mined Lands for Horticultural Crops.** Bearce, PI. Pocahontas Land Corporation. \$100,000.
- 6 1994-97 **Corridor H and Blackwater River Restoration.** Stout, PI. USEPA, Region 3. \$450,000.
- 7 1995-99 **Horticultural Crops on Reclaimed Minesoils.** Bearce, PI. Mingo Co Development Authority. \$78,440.
- 8 1995-96 **Restoration of Ecosystem Function Following Disturbance.** McGraw, PI. EPSCoR. \$50,000.
- 9 1997-01 **Aluminum Tolerance in Fungi.** Cumming, PI. National Science Foundation. \$327,470.
- 10 1998-99 **Iron Coating on Limestone and Limestone Dissolution.** McDonald, PI. NMLRC. \$32,000.
- 11 1998-00 **Acid Mine Drainage Closeout Strategy for the Alton Site.** WV Division of Environmental Prot. \$173,000.
- 12 1999-00 **Acid Drainage Technology Initiative Technical Program.** Ziemkiewicz, PI. USDI/OSM. \$200,000.
- 13 1999-01 **Quality of Soils on Mountaintop Removal Sites.** Sencindiver, PI. Arch Coal. \$30,000.
- 14 1999-00 **Mountaintop Mining Impacts on Terrestrial Habitats.** P. Wood, PI. EPA. \$182,000.
- 15 2000-01 **Reclamation of McCarty Highwall.** Ziemkiewicz, PI. EPA and WVDEP. \$125,000
- 16 2000-02 **Passive Treatment Using Steel Slag: Greens Run.** Ziemkiewicz, PI. WVDEP, EPA. \$172,000.
- 17 2000-02 **Remediation of Phosphate Soils with AMD Sludge.** Bhumbra, PI. WVDEP. \$134,000.
- 18 2000-01 **Monongahela Basin Mine Pool.** Ziemkiewicz, PI. USDOE-NETL. \$679,000.
- 19 2000-03 **Establishing Commercial Hardwoods on Mined Land.** Gorman, PI. Anker Energy. \$5,500.
- 20 2002-03 **Design Manual for AML Reclamation.** Ziemkiewicz, PI. USDOE-Geological Survey. \$26,000.
- 21 2000-05 **Remediation Measures for Highway Construction.** Fortney, PI. WV Division of Highways. \$528,000.
- 22 2004-06 **OSM Technology Transfer.** Ziemkiewicz, PI, USDI-OSM. \$140,000.
- 23 2000-10 **Acid Drainage Technology Initiative Technical Program.** Ziemkiewicz, PI. USDI-OSM. \$300,000.
- 24 2004-06 **WV221-Muzzleloader Club AMD Project.** Ziemkiewicz, PI. WVDEP. \$5,500.

- 25 2004-06 **WV223-Lower Cheat Watershed Passive Treatment Installation.** Ziemkiewicz, PI. WVDEP, \$325,000.
- 26 2008-10 **Soil Hydrologic Group for Minesoils Using FRA in Appalachia.** OSMRE, \$70,500.
- 27 2008-14 **Switchgrass Plantings on Mined Land for Biofuel.** WVDEP, \$200,000.
- 28 2008-10 **Re-Introducing Chestnut on Reclaimed Surface Mines.** OSMRE-TACF, \$200,000.
- 29 2009-12 **OSM Cooperative Agreement.** Ziemkiewicz, PI. USDI-OSM. \$200,000.
- 30 2010-14 **Biomass Production at Alton Project.** Gutta and Herd, PI. WVDEP, \$180,000.
- 31 2011-13 **Poultry-based Biochar Industry Road Map.** Anderson, PI. Blue Moon Fund, \$130,000.
- 32 2011-14 **Appalachian Research Initiative/Environmental Science.** Craynon, PI, VPI. \$5M. My share \$200,000.
- 33 2012-17 **NEWBio Consortium.** Richard, PI, Penn St. USDA-CAP, \$10M. My share \$275,000.
- 34 2014-15 **Woody Biomass on Mined Lands.** Schuler, PI, WV DOE, \$28,500.
- 35 2014-18 **Nutrient Management Interns.** McDonald, PI. NRCS. \$260,000. My share \$0.
- 36 2015-19 **Appalachian Freshwater Initiative.** Anderson, PI. EPSCoR, \$5.5M. My share \$100,000.
- 37 2016-18 **Spoil Type Effect on Discharge Water Quality at Reclaimed Mines.** Hass, PI, OSMRE, \$111,723.
- 38 2018-21 **Plant-Microbe Interactions on Bioenergy Crop Yield.** Freedman, PI. USDA-NIFA, \$750,000.
- 39 2018-21 **Education Program in Land Reclamation.** Burns, PI. USDA-NIFA, \$631,000.
- 40 2020-25 **Mid-Atlantic Sustainable Biomass Consortium (MASBio).** Wang, PI. USDA NIFA, \$10M. My share \$445,000.

## **Professional and Research Experience:**

12/85-now – **Professor and Extension Specialist-Land Reclamation.** Division of Plant and Soil Sciences, West Virginia University. Appointment is 65% Extension, 20% Teaching, and 15% Research.

**Extension** duties include providing information and consultation to coal mine operators, consultants, and regulatory agencies on acid mine drainage control and treatment, proper handling and placement of overburden materials during mining, revegetation of acid mine soils, hydrology of geologic/soil systems, and other reclamation issues. I coordinate the 4-H and FFA Land Judging Program in West Virginia. I participate in proper disposal and application wastewater sludge to lands, and work in various soil conservation and water quality activities in the State.

**Teaching** duty involves two classes: 1) ENVP 155, "Elements of Environmental Protection," and 2) AGRN 455, "Reclamation of Disturbed Soils". Both courses are taught every winter semester (January-May). Guest lectures and field trips for other classes are provided as needed.

**Research** duties include projects on mining practices, acid mine drainage control and treatment, chemical and passive treatment systems, wetlands, acid soils, AML reclamation and revegetation, highway construction and revegetation, reforestation, biomass growth on mined lands for biofuel, and treatment of wastewater and disposal of sludge (see list above).

**Service** duties include serving on Extension planning and development committees, various College and Division committees, and graduate student committees.

7/82-12/85 - **Graduate Research Fellow.** Range Science Department, Texas A&M University. Responsible for proposing, designing and conducting research on a revegetation system for lignite surface mines.

3/80-7/82 - **Biological Aide.** Big Game Range Forage Revegetation Project, Utah Division of Wildlife Resources. Planting, testing and evaluation of native and introduced grasses, forbs, shrubs, and trees, and their suitability for seeding on range improvement projects and other disturbed areas.

7/81-5/82 - **Graduate Research Assistant.** Botany and Range Science Department, Brigham Young University. Assisted in various research projects including Utah Lake ecological study, and ecosystem resources inventory for central Utah.

## **Professional Affiliations:**

American Society of Agronomy  
 American Society for Reclamation Sciences  
 Mine Drainage Task Force  
 Soil Science Society of America  
 Soil and Water Conservation Society  
 West Virginia Association of Professional Soil Scientists

## **Interests and Hobbies:**

Church service  
 Farming and forestry work  
 Golf, tennis, softball, and other sports  
 Member of the Piano Technicians Guild; piano tuning, repair and rebuilding  
 Music: Pianist and Organist

## **Teaching Experience:**

**Reclamation of Disturbed Soils.** (3 semester hours). Instructor. West Virginia University. This course integrates and applies the sciences of soils, geology, hydrology, chemistry, and biology to land disturbances (primarily in the context of surface mining) and reclamation. Course topics include history of mining and reclamation, coal resources and regions, mining methods, planning and assessing land disturbance impacts, overburden analysis and acid-base accounting, handling and placement of geologic materials, replacing soils, revegetating disturbed areas, evaluating water quality and other hydrologic problems, controlling and treating acid mine drainage, and developing productive post-mining land uses after reclamation. Problem sets provide a mathematical basis for designing and constructing remediation strategies including mining costs, coal mining income, mine design, flow calculations and pond sizing, watershed hydrology, overburden analysis, lime and fertilizer application rates and costs, and chemical and passive treatment design and cost. Three 1-hour lectures weekly. Taught 1986-2021. Two field trips.

**Elements of Environmental Protection.** (3 semester hours). Instructor. West Virginia University. This course provides an overview of many topics in environmental science with emphasis on current environmental issues and problems. We discuss land, water, and air resources, and scientific principles dealing with matter, energy, nutrients, ecosystems, and humans. We also explore ecological, societal, political, and economic concepts as they pertain to natural environments and man's impact on the earth's resources. We investigate our own perceptions of environmental integrity and rethink our own involvement in pollution activities. Mathematical exercises provide the skills to help understand significant environmental problems. Three 1-hour lectures weekly. Two field trips. Taught 1998-2020.

**Principles of Soil Science Laboratory.** (1 semester hour). Coordinator. West Virginia University. Three laboratory periods are taught each semester. I recruit and train three undergraduate or graduate students to teach, demonstrate, test and grade the students in the lab. Taught in 2016 and 2017.

**Principles of Soil Science.** (4 semester hours, lecture and laboratory). Instructor. West Virginia University. Soils are a fundamental natural resource for ecosystems and I try to teach an understanding of their physical, chemical, and biological properties. These properties are related to plant growth, land use and management, and environmental protection. Topics include rock classification and parent materials, soil formation and classification, texture, structure, density, soil water, clay mineralogy, soil acidity and liming, soil organisms, plant nutrients, fertilizers, erosion, reclamation, and pollution. Taught 1991-1997.

**Principles of Ecology.** (1 semester hour). Instructor. Texas A&M University. Responsibility for lecturing a 3-hour laboratory period each week on various topics in Ecology and methods for measuring vegetation and animal populations. 1983.

**Range Watershed Management.** (1 semester hour). Instructor. Texas A&M University. Responsibility for teaching 2 laboratory periods of 3 hours each per week. Topics included rainfall monitoring, infiltration, and runoff; erosion and sedimentation; collection and analysis of water pollution in Texas. 1983.

**Instructor and Coordinator.** Missionary Training Center, Brigham Young University. Duties involved lecturing, counseling and training adult missionaries, and conduction seminars and workshops. 1978-1980.

## **Graduate Student Education:**

**Graduate Students Advised: 37**

**Graduate Student Committees: 75**

## **Publications:**

### **Books, Book Chapters, Editor of Proceedings and Magazines: Total 41**

- 1 Zipper, C.E., and J. Skousen. 2021. Editors. Appalachia's Coal-Mined Landscapes: Resources and Communities in a New Energy Era. Springer Nature. ISBN-13: 978-3030577797, 351 p.
- 2 Skousen, J. 2004-2021. Editor. Reclamation Matters. Spring and Fall, 34 issues, American Society of Mining and Reclamation. DEL Communications, Winnipeg, Manitoba. <https://www.asrs.us/Publications/Reclamation-Matters>
- 3 Skousen, J. 1990-2019. Editor. 29 issues. Proceedings of the West Virginia Mine Drainage Task Force Symposiums. Morgantown, WV. <http://wvmdtaskforce.com/>
- 4 Zipper, C.E., M.B. Adams, and J. Skousen. 2021. The Appalachian coalfield in historical context. Chapter 1 In: Zipper and Skousen (eds.), Appalachia's Coal-Mined Landscapes: Resources and Communities in a New Energy Era. Springer Nature. ISBN-13: 978-3030577797.
- 5 Skousen, J., and C. Zipper. 2021. Coal mining and reclamation in Appalachia. Chapter 3 In: Zipper and Skousen (eds.), Appalachia's Coal-Mined Landscapes: Resources and Communities in a New Energy Era. Springer Nature. ISBN-13: 978-3030577797.
- 6 Skousen, J., W.L. Daniels, and C.E. Zipper. 2021. Soils on Appalachian coal-mined lands. Chapter 4 In: Zipper and Skousen (eds.), Appalachia's Coal-Mined Landscapes: Resources and Communities in a New Energy Era. Springer Nature. ISBN-13: 978-3030577797.
- 7 Zipper, C.E., C.T. Agouridis, C.D. Barton, and J. Skousen. 2021. Conversion options for mining-affected lands and waters in Appalachia. Chapter 7 In: Zipper and Skousen (eds.), Appalachia's Coal-Mined Landscapes: Resources and Communities in a New Energy Era. Springer Nature. ISBN-13: 978-3030577797.
- 8 Zipper, C.E., J. Skousen, and C.D. Barton. 2021. The Appalachian coalfield's energy transition and prospects. Chapter 13 In: Zipper and Skousen (eds.), Appalachia's Coal-Mined Landscapes: Resources and Communities in a New Energy Era. Springer Nature. ISBN-13: 978-3030577797.
- 9 Skousen, J., P. Ziemkiewicz, and L. McDonald. 2019. Acid mine drainage: sources and treatment in the United States. In: Encyclopedia of Water: Science, Technology, and Society. Wiley Publishers, New York.
- 10 Skousen, J., C. Zipper, L.M. McDonald, J.M. Hubbart, and P. Ziemkiewicz. 2018. Sustainable reclamation and water management practices. Chapter 21. In: J. Hirschi (ed.), Advances in Productive, Safe, and Responsible Coal Mining. Woodhead Publishing Series in Energy. Sawston, Cambridge, UK.
- 11 Skousen, J., and C. Zipper. 2018. Post-mining land use options in the Appalachian coal mining region of the USA. Paper 14-105. In: From Start to Finish – A Life-of-Mine Perspective. Australian Institute of Mining and Metallurgy, Carlton, Australia.
- 12 Skousen, J., C. Zipper, J. Burger, C. Barton, and P. Angel. 2017. Chapter 3: Selecting materials for mine soil construction when establishing forests on Appalachian mined lands. In: Adams, MB, ed. The Forestry Reclamation Approach: guide to successful reforestation of mined lands. Gen. Tech. Rep. NRS-169. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 3-1 – 3-10.
- 13 Sweigard, R., J. Burger, C. Zipper, J. Skousen, C. Barton, and P. Angel. 2017. Chapter 4: Low compaction grading to enhance reforestation success on coal surface mines. In: Adams, MB, ed. The Forestry Reclamation Approach: guide to successful reforestation of mined lands. Gen. Tech. Rep. NRS-169. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 4-1 – 4-8.
- 14 Strahm, B., R. Sweigard, J. Burger, D. Graves, C. Zipper, C. Barton, J. Skousen, and P. Angel. 2017. Chapter 5: Loosening compacted soils on mined lands. In: Adams, Mary Beth, ed. The Forestry Reclamation Approach: guide to successful reforestation of mined lands. Gen. Tech. Rep. NRS-169. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 5-1 – 5-6.
- 15 Burger, J., V. Davis, J. Franklin, C. Zipper, J. Skousen, C. Barton, and P. Angel. 2017. Chapter 6: Tree-compatible ground covers for reforestation and erosion control. In: Adams, MB, ed. The Forestry Reclamation Approach: guide to successful reforestation of mined lands. Gen. Tech. Rep. NRS-169. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 6-1 – 6-8.
- 16 Groninger, J., J. Skousen, P. Angel, C. Barton, J. Burger, and C. Zipper. 2017. Chapter 8: Mine reclamation practices to enhance forest development through natural succession. In: Adams, MB, ed. The Forestry Reclamation Approach: guide to successful reforestation of mined lands. Gen. Tech. Rep. NRS-169. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 8-1 – 8-7.
- 17 Burger, J., C. Zipper, P. Angel, N. Hall, J. Skousen, C. Barton, and S. Eggerud. 2017. Chapter 10: Establishing native trees on legacy surface mines. In: Adams, MB, ed. The Forestry Reclamation Approach: guide to successful reforestation of mined lands. Gen. Tech. Rep. NRS-169. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 10-1 – 10-12.
- 18 French, M., C. Barton, B. McCarthy, C. Keiffer, J. Skousen, C. Zipper, and P. Angel. 2017. Chapter 12: Reestablishing American Chestnut on mined lands in the Appalachian coalfields. In: Adams, MB, ed. The Forestry Reclamation Approach: guide to successful reforestation of mined lands. Gen. Tech. Rep. NRS-169. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station: 12-1 – 12-9.

- 19 Zipper, C., C. Barton, J. Franklin, J. Skousen, P. Angel, and J. Burger. 2015. Best practices for forest restoration when reclaiming surface coal mines. Chapter 23. In: *Responsible Mining: Sustainable Practices in the Mining Industry*. Society of Mining, Metallurgy, and Exploration, Englewood, CO.
- 20 Skousen, J., and J. Jacobs. 2014. Stream characterization for acid mine drainage. Chapter 9. In: Jacobs, J., J. Lehr, and S. Tesla (eds.), *Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils: Causes, Assessment, Prediction, Prevention, and Remediation*. John Wiley & Sons, New York.
- 21 Skousen, J., C. Mains, and J. Jacobs. 2014. Biological sampling and inventory process. Chapter 14. In: Jacobs, J., J. Lehr, and S. Tesla (eds.), *Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils: Causes, Assessment, Prediction, Prevention, and Remediation*. John Wiley & Sons, New York.
- 22 Skousen, J., P. Ziemkiewicz, and J. Jacobs. 2014. Acid generation and drainage workshop: example calculations and solved problems. Chapter 27. In: Jacobs, J., J. Lehr, and S. Tesla (eds.), *Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils: Causes, Assessment, Prediction, Prevention, and Remediation*. John Wiley & Sons, New York.
- 23 Skousen, J. 2014. Overview of acid mine drainage treatment with chemicals. Chapter 29. In: Jacobs, J., J. Lehr, and S. Tesla (eds.), *Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils: Causes, Assessment, Prediction, Prevention, and Remediation*. John Wiley & Sons, New York.
- 24 Zipper, C., and J. Skousen. 2014. Passive treatment of acid mine drainage. Chapter 30. In: Jacobs, J., J. Lehr, and S. Tesla (eds.), *Acid Mine Drainage, Rock Drainage, and Acid Sulfate Soils: Causes, Assessment, Prediction, Prevention, and Remediation*. John Wiley & Sons, New York.
- 25 Odenheimer, J., J. Skousen, and L.M. McDonald. 2013. Predicting total dissolved solids release from overburden in Appalachian coal fields. p. 255-265. In: Craynon, J. (ed.), *Environmental Considerations in Energy Production*. Soc. Mining, Metallurgy and Exploration, Inc. Englewood, CO. 540 pp.
- 26 Skousen, J., and C. Zipper. 2013. Reclamation of disturbed coal mined lands. Chapter 11. p. 407-477. In: Bise, C. (ed.), *Modern American Coal Mining: Methods and Applications*. Society of Mining, Metallurgy and Exploration, Inc. Englewood, CO. 576 pp.
- 27 Skousen, J., and G.F. Vance. 2012. Groundwater: Pollution from Mining. *Encyclopedia of Environmental Management*. CRC Press, Taylor and Francis LLC.
- 28 Skousen, J. 2004. Acid Mine Drainage: Sources and Treatment in the United States. *Encyclopedia of Water*. John Wiley & Sons. New York.
- 29 Barnhisel, R., and J. Skousen. 2004. Editors. Proceedings of the 25<sup>th</sup> West Virginia Surface Mine Drainage Task Force Symposium and the 21<sup>st</sup> National Conference of the American Society of Mining and Reclamation, April 18-22, 2004, Morgantown, WV, 754 pp.
- 30 Skousen, J., and G. Vance. 2003. Surface water pollution from mining activities. P. 956-960. In: *Encyclopedia of Water Science*, B.A. Stewart and T. Howell, editors. Marcel Dekker, Inc., New York.
- 31 Vance, G., and J. Skousen. 2003. Groundwater pollution from mining activities. P. 363-368. In: *Encyclopedia of Water Science*, B.A. Stewart and T. Howell, editors. Marcel Dekker, Inc., New York.
- 32 McDonald, L.M., Q. Sun, J.G. Skousen, and P.F. Ziemkiewicz. 2001. Water quality prediction model in open limestone systems. p. 279-282. In H. Xie, Y. Wang, and Y. Jiang (Eds.) *Computer Applications in the Mineral Industries*. A.A. Balkema Publ, Lisse.
- 33 Skousen, J. 2000. Static Tests for Coal Mining Acid Mine Drainage Prediction in the Eastern U.S. In: Kleinmann, R.L.P. (Ed.), *Mine Water Quality Prediction by the Acid Drainage Technology Initiative Coal Prediction Workgroup*. Acid Drainage Technology Initiative (ADTI) of the U.S. Office of Surface Mining. Published by the National Mine Land Reclamation Center, Morgantown, WV.
- 34 Skousen, J., C. Mains, and R. Hamilton. 2000. You can't judge a stream by its color. Handbook to accompany a video by the same title. Published by the WVU Extension Service, Morgantown, WV.
- 35 Skousen, J.G., A.J. Sexstone, and P.F. Ziemkiewicz. 2000. Acid mine drainage control and treatment. Chapter 6. In: *Reclamation of Drastically Disturbed Lands*. Agronomy No. 41. American Society of Agronomy and American Society for Surface Mining and Reclamation. Madison, WI.
- 36 Sobek, A.A., J.G. Skousen, and S.E. Fisher. 2000. Chemical and physical properties of overburdens and spoils. Chapter 4. In: *Reclamation of Drastically Disturbed Lands*. Agronomy No. 41. American Society of Agronomy and American Society for Surface Mining and Reclamation. Madison, WI.
- 37 Skousen, J., A. Rose, G. Geidel, J. Foreman, R. Evans, and W. Hellier. 1999. Handbook of technologies for avoidance and remediation of acid mine drainage. Acid Drainage Technology Initiative (ADTI) of the U.S. Office of Surface Mining. Published by the National Mine Land Reclamation Center, WVU, Morgantown, WV.
- 38 Skousen, J.G., and P.F. Ziemkiewicz. 1996. Acid mine drainage control and treatment. 2nd Ed. National Mine Land Reclamation Center and West Virginia University, Morgantown, WV. 254 pp.
- 39 Skousen, J., A. Sexstone, K. Garbutt, and J. Sencindiver. 1994. Acid mine drainage treatment with wetlands and anoxic limestone drains. Chapter 12. p. 263-281. In: D.A. Kent (ed.), *Applied Wetlands Science and Technology*. CRC Press/Lewis Publishers, New York, NY. 436 pp.
- 40 Skousen, J., J. Sencindiver, D. Samuel (Eds.). 1990. Proceedings of the 1990 Mining and Reclamation Conference and Exhibition. 2 Vols. West Virginia University. Morgantown, WV. 615 pp.

41 Skousen, J.G., J.C. Sencindiver, and R.M. Smith. 1987. A review of procedures for surface mining and reclamation in areas with acid-producing materials. WVU Energy and Water Research Center. Publication EWRC 871. Morgantown, WV.

### **Journal Articles: Total 91**

- 1 Kane, J.L., E.M. Morrissey, J.G. Skousen, and Z.B. Freedman. 2020. Soil microbial succession following surface mining is governed primarily by deterministic factors. *FEMS Microbiology Ecology* 11: 114. DOI 10.1093/femsec/fiaa114.
- 2 Caterino, B., J. Schuler, S. Grushecky, and J. Skousen. 2020. Early growth and survival of shrub willow on newly reclaimed mine soil. *New Forests* 51: 1087-1099. DOI 10.1007/s11056-020-09776-4
- 3 Dallaire, K., and J. Skousen. 2019. Early tree growth in reclaimed mine soils in Appalachia USA. *Forests* 10:549. DOI 10.3390/f10070549
- 4 Skousen, J., P. Ziemkiewicz, and L. McDonald. 2019. Acid mine drainage formation, control and treatment: approaches and strategies. *Extractive Industries and Society* 6:241-249. DOI 10.1016/j.exis.2018.09.008
- 5 French, M., C. Barton, B. McCarthy, C. Keiffer, J. Skousen, C. Zipper, and P. Angel. 2018. Re-establishing American chestnut on mined lands in the Appalachian coalfields. *J. Environmental Solutions for Oil, Gas, and Mining*: 4(1) 11-19. DOI 10.3992/2377-3545-4.1.11
- 6 Monteleone, A., J. Skousen, J. Shuler, L. McDonald, R. Williams, I. Holaskova. 2018. Survival and growth of 20 species of trees and shrubs on Appalachian surface mines. *Land Degrad. Develop.* DOI 10.1002/ldr.2962.
- 7 Scagline-Mellor, S., T. Griggs, J. Skousen, E. Wolfrum, I. Holaskova. 2018. Switchgrass and giant miscanthus biomass and theoretical ethanol production from reclaimed mine lands. *BioEnergy Research* 11:562-573. DOI 10.1007/s12155-018-9915-2.
- 8 Skousen, J., K. Dallaire, S. Scagline-Mellor, A. Monteleone, L. Wilson-Kokes, J. Joyce, C. Thomas, T. Keene, C. DeLong, T. Cook, D. Jacobs. 2018. Plantation performance of chestnut hybrids and progenitors on reclaimed Appalachian surface mines. *New Forests*. DOI 10.1007/s11056-018-9643-7.
- 9 Skousen, J. 2017. A methodology for geologic testing for land disturbance: acid-base accounting for surface mines. *Geoderma* 308:302-311. DOI 10.1016/j.geoderma.2017.07.038
- 10 Cheng, L., and J. Skousen. 2017. Comparison of international mine reclamation bonding systems with recommendations for China. *Int. J. Coal Sci. Technol.* DOI 10.1007/s40789-017-0164-3.
- 11 Cheng, L., J. Skousen, F. Yajie, M. Lu, D. Xuemei, S. Haiyuan, Z. Xiaoyu, H. Zhilong, and T. Jiahua. 2017. Calculation of mine reclamation bond based on the dominant factors affecting land destruction. *Disaster Adv.* 10: 1-11.
- 12 Caterino, B., J. Schuler, S. Grushecky, and J. Skousen. 2017. Surface mine to biomass farm: growing shrub willow (*Salix* spp.) in northeastern West Virginia –First year results. *J. Am. Soc. Mining Recl.*: 6(1): 1-14. DOI 10.21000/JASMR17010001
- 13 Nobert, H., D. McGill, S. Grushecky, J. Skousen, and J. Schuler. 2016. *Salix* spp. As a biomass crop: investigating its potential on mined lands and the use of biochar as a soil amendment. *J. Am. Soc. Mining Recl.*: 5(2): 58-76. DOI 10.21000/JASMR16020058
- 14 Skousen, J., C. Zipper, A. Rose, P. Ziemkiewicz, R. Nairn, L.M. McDonald, and R.L. Kleinmann. 2017. Review of passive systems for acid mine drainage treatment. *Mine Water Environ.* 36: 133-153. DOI 10.1007/s10230-016-0417-1
- 15 Daniels, W.L., C.E. Zipper, Z.W. Orndorff, J. Skousen, C.D. Barton, L.M. McDonald, and M.A. Beck. 2016. Predicting total dissolved solids release from central Appalachian coal mine spoils. *Env. Poll* 216: 371-379. DOI 10.1016/j.envpol.2016.05.044
- 16 Monteleone, A., J. Skousen, L. McDonald, J. Shuler, J. Pomp, M. French, and R. Williams. 2016. Evaluation of small tree and shrub plantings on reclaimed surface mines in West Virginia. *J. Am. Soc. Mining Recl.* 6: 34-61.
- 17 Macdonald, E., S. Landhauer, J. Skousen, J. Franklin, J. Frouz, S. Hall, D. Jacobs, and S. Quideau. 2015. Forest restoration following surface mining disturbance: challenges and solutions. *New Forests* 46: 703-732. DOI 10.1007/s11056-015-9506-4.
- 18 Dallaire, K., and J. Skousen. 2015. Height of three hardwood species growing on mine sites reclaimed using the forestry reclamation approach compared to natural conditions. *J. Am. Soc. Mining Recl.* 4: 20-35. DOI 10.21000/JASMR15020020
- 19 Scagline, S., and J. Skousen. 2015. Switchgrass and miscanthus yields on reclaimed surface mines for bioenergy production. *J. Am. Soc. Mining Recl.* 4: 80-90. DOI 10.21000/JASMR15020080
- 20 Thomas, C., A. Sexstone, and J. Skousen. 2015. Soil biochemical properties after six years in amended brown and gray mine soils in West Virginia. *Soil* 2: 621-629. DOI 10.5194/soil-1-621-2015
- 21 Brown, C., T. Griggs, T. Keene, M. Marra, and J. Skousen. 2015. Switchgrass biofuel production on reclaimed surface mines: I. Soil quality and dry matter yield. *Bioenergy Res.* 9: 31-39. DOI 10.1007/s12155-015-9658-2
- 22 Brown, C., T. Griggs, and J. Skousen. 2015. Switchgrass yield and quality on reclaimed surface mines in West Virginia: II. Composition and quality. *Bioenergy Res.* 9: 40-49. DOI 10.1007/s12155-015-9657-3
- 23 Odenheimer, J., J. Skousen, L.M. McDonald, D. Vesper, M. Mannix, and W.L. Daniels. 2015. Predicting release of total dissolved solids from overburden material using acid-base accounting parameters. *Geochemistry: Explor. Env. Analysis* 15: 131-137. DOI 10.1144/geochem2014-276
- 24 Mack, B., J. Skousen, and L.M. McDonald. 2015. Effect of flow rate on acidity concentration from above-drainage underground mines. *Mine Water Environ.* 34: 50-58. DOI 10.1007/s10230-014-0278-4
- 25 Lanham, J., J. Sencindiver, and J. Skousen. 2015. Characterization of soil developing in reclaimed Upper Freeport coal surface mines. *Southeastern Nat.* 14: 58-64.

- 26 Stephens, K., J. Sencindiver, and J. Skousen. 2015. Characteristics of wetland soils impacted by acid mine drainage. *Southeastern Nat.* 14: 40-57.
- 27 Skousen, J., and C. Zipper. 2014. Post-mining policies and practices in the Eastern USA Coal Region. *Intl. J. Coal Sci. Techn.* 1: 135-151. DOI 10.1007/s40789-014-0021-6
- 28 Skousen, J., C. Brown, T. Griggs, and S. Byrd. 2014. Establishment and growth of switchgrass and other biomass crops on surface mines. *J. Am. Soc. Mining Recl.* 3: 136-156.
- 29 Wilson-Kokes, L., and J. Skousen. 2014. Tree growth on ripped, compacted, and slightly-compacted gray sandstone topsoil substitutes on a surface coal mine in West Virginia. *J. Am. Soc. Mining Recl.* 3: 117-135. DOI 10.21000/JASMR14010117
- 30 Wilson-Kokes, L., and J. Skousen. 2014. Nutrient concentrations in tree leaves on brown and gray reclaimed mine soils in West Virginia. *Sci. Total Environ.* 481: 418-424. DOI 10.1016/j.scitotenv.2014.02.015
- 31 Skousen, J., J.E. Yang, J.S. Lee, and P. Ziemkiewicz. 2013. Review of fly ash as a soil amendment. *Geosystem Eng.* 16: 249-256. DOI 10.1080/12269328.2013.832403
- 32 Wilson, Kokes, L., P. Emerson, C. DeLong, C. Thomas, K. O'Dell, and J. Skousen. 2013. Hardwood tree growth on amended mine soils in West Virginia. *J. Env. Qual.* 42: 1363-1371. DOI 10.2134/jeq2013.03.0103
- 33 Wilson-Kokes, L., P. Emerson, C. DeLong, C. Thomas, and J. Skousen. 2013. Hardwood tree growth after eight years on brown and gray mine soils in West Virginia. *J. Env. Qual.* 42: 1353-1362. DOI 10.2134/jeq2013.04.0113
- 34 Zipper, C., J. Burger, C. Barton, and J. Skousen. 2013. Rebuilding soils for forest restoration on Appalachian mined lands. *Soil Sci. Soc. Am. J.* 77: 337-349. DOI 10.2136/sssaj2012.0335
- 35 Marra, M., T. Keene, J. Skousen, and T. Griggs. 2013. Switchgrass yield on reclaimed surface mines for bioenergy production. *J. Env. Qual.* 42: 696-703. DOI 10.2134/jeq2012.0453
- 36 Skousen, J., T. Cook, and E. Pena-Yewtukhiw. 2013. Survival and growth of chestnut backcross seeds and seedlings on surface mines. *J. Env. Qual.* 42: 690-695. DOI 10.2134/jeq2012.0368
- 37 Skousen, J., T. Keene, M. Marra, and B. Gutta: 2013. Reclamation of mined land with switchgrass, *Miscanthus*, and *Arundo* for biofuel production. *J. Am. Soc. Mining Recl.* 2: 177-191.
- 38 Brown, C., J. Skousen, and T. Griggs. 2013. Yield of switchgrass on reclaimed surface mines. *J. Am. Soc. Mining Recl.* 2: 38-48.
- 39 Chaudhuri, S., L.M. McDonald, E. Pena-Yewtukhiw, J. Skousen, and M. Roy. 2013. Chemically stabilized soil organic carbon fractions in a reclaimed minesoil chronosequence: implication for soil carbon sequestration. *Environ. Earth Sci.* 70: 1689-1698. DOI 10.1007/s12665-013-2256-8
- 40 Chaudhuri, S., M.M. McDonald, J. Skousen, and E. Pena-Yewtukhiw. 2013. Soil organic carbon molecular properties: effect of time since reclamation in a minesoil chronosequence. *Land Degradation and Develop.* 26: 237-248. DOI 10.1002/ldr.2202
- 41 DeLong, C., J. Skousen, and E. Pena-Yewtukhiw. 2012. Bulk density of rocky mine soils in forestry reclamation. *Soil Sci. Soc. Am. J.* 76: 1810-1815. DOI 10.2136/sssaj2011.0380
- 42 Skousen, J. and D. Barnhisel. 2012. A brief history of the American Society of Mining and Reclamation. *J. Am. Soc. Mining Recl.* 1: 123-128. DOI 10.21000/JASMR12010123
- 43 Skousen, J., P. Ziemkiewicz, and J.E. Yang. 2012. Use of coal combustion by-products in mine reclamation: review of case studies in the USA. *Geosystem Eng.* 15: 71-83. DOI 10.1080/12269328.2012.676258
- 44 Chaudhuri, S., E. Pena-Yewtukhiw, L.M. McDonald, J. Skousen, and M. Sperow. 2012. Early C sequestration rate changes for reclaimed minesoils. *Soil Sci.* 177: 443-450. DOI 10.1097/SS.0b013e318254494d
- 45 Franklin, J., C. Zipper, J. Burger, J. Skousen, and D. Jacobs. 2012. Influence of planted ground cover on forest establishment and growth on eastern US coal surface mines. *New Forests* 43: 905-924. DOI 10.1007/s11056-012-9342-8
- 46 Kim, S.C., J. Yang, D.K. Kim, Y.W. Cheong, J. Skousen, and Y.S. Jung. 2012. Screening of extraction methods for Cd and As bioavailability prediction in rhizospheric soil using multivariate analyses. *Environ. Earth Sci.* 66: 327-335. DOI 10.1007/s12665-011-1242-2
- 47 Cheong, Y.W., G. Yim, S. Ji, S. Kang, and J. Skousen. 2012. Water quality changes of a closed underground coal mine in Korea. *Environ. Monit. Assess.* 184: 503-513. DOI 10.1007/s10661-011-1983-0
- 48 Chaudhuri, S., E. Pena-Yewtukhiw, L. McDonald, J. Skousen, and M. Sperow. 2011. Land use effects on sample size requirements for soil organic carbon stock estimation. *Soil Sci.* 176: 110-114.
- 49 Zipper, C., J. Burger, J. Skousen, P. Angel, C. Barton, V. Davis, and J. Franklin. 2011. Restoring forests and associated ecosystem services on Appalachian coal surface mines. *Environ. Management* 47: 751-765. DOI 10.1007/s00267-011-9670-z
- 50 Ok, Y.S., S.C. Kim, D.K. Kim, J.G. Skousen, J.S. Lee, and J.E. Yang. 2011. Ameliorants to immobilize Cd in rice paddy soils contaminated from abandoned metal mines in Korea. *Environ. Geochem. Health* 33: 23-30. DOI 10.1007/s10653-010-9364-0
- 51 Zipper, C.E., and J. Skousen. 2010. Influent water quality affects performance of passive treatment systems for acid mine drainage. *Mine Water Environ.* 29: 135-143. DOI 10.1007/s10230-010-0101-9
- 52 Chaudhuri, S. E.M. Pena-Yewtukhiw, L.M. McDonald, J. Skousen and M. Sperow. 2010. Land use effects on sample size requirements for soil organic carbon stock calculations. *Soil Science.* 176(2):110-114.
- 53 Kim, S.C., J.E. Yang, Y.S. Ok, J. Skousen, D.G. Kim, and J.H. Joo. 2010. Accelerated Metolachlor degradation in soil by zero-valent iron and compost amendments. *Bull. Environ. Contamination Toxicology* 84: 459-464. DOI 10.1007/s00128-010-9963-6
- 54 Mack, B., L.M. McDonald, and J. Skousen. 2010. Acidity decay of above-drainage underground mines in West Virginia. *J. Environ. Qual.* 39: 1043-1050. DOI 10.2134/jeq2009.0229



- 55 Emerson, P., J. Skousen, and P. Ziemkiewicz. 2009. Survival and growth of hardwoods in brown vs gray sandstone on a surface mine in West Virginia. *J. Environ. Qual.* 38: 1821-1829. DOI 10.2134/jeq2008.0479
- 56 Skousen, J., J. Gorman, E. Pena-Yewtukhiw, J. King, J. Stewart, P. Emerson, and C. DeLong. 2009. Hardwood tree survival in heavy ground cover on reclaimed land in West Virginia: mowing and ripping effects. *J. Environ. Qual.* 38: 1400-1409. DOI 10.2134/jeq2008.0297
- 57 Yang, J., W. Lee, Y. Ok, and J. Skousen. 2009. Soil nutrient bioavailability and nutrient content of pine trees (*Pinus thunbergii*) in areas impacted by acid deposition in Korea. *Environ. Monit. Assess.* 157: 43-50. DOI 10.1007/s10661-008-0513-1
- 58 Farr, C., J. Skousen, P. Edwards, S. Connolly, and J. Sencindiver. 2009. Acid soil indicators in forest soils of the Cherry River Watershed, West Virginia. *Environ. Monit. Assess.* 158: 343-353. DOI 10.1007/s10661-008-0588-8
- 59 Cook, T., Skousen, J., and T. Hilton. 2008. Covering pre-existing, acid-producing fills with alkaline sandstone to control acid mine drainage. *Mine Water Environ.* 27: 259-264. DOI 10.1007/s10230-008-0051-7
- 60 Skousen, J., and C. Venable. 2008. Establishing native plants on newly-constructed and older-reclaimed sites along West Virginia highways. *Land Degradation and Development* 19: 388-396. DOI 10.1002/ldr.846
- 61 Skousen, J., P. Ziemkiewicz, and C. Venable. 2006. Tree recruitment and growth on 20-yr-old, unreclaimed surface mined lands in West Virginia. *International J. Mining, Reclamation and Environment* 20(2): 142-154. DOI 10.1080/17480930600589833
- 62 Yang, J., J. Skousen, Y. Shim, J. Kim, K. Nam, Y. Lim, S. Choi, C. Won, and J. An. 2006. Reclamation of abandoned coal mine wastes using lime cake by-products in Korea. *Mine Water Environ.* 25: 227-232.
- 63 Stark, A., J. Skousen, D. Bhumbla, J. Sencindiver, and L.M. McDonald. 2004. Trace element concentrations of three soils in West Virginia. *Soil Survey Horizons* 45 (3): 73-85.
- 64 Demchak, J., J. Skousen, and L.M. McDonald. 2004. Longevity of acid discharges from underground mines located above the regional water table. *J. Environ. Qual.* 33: 656-668.
- 65 Hench, K., G. Bissonnette, A. Sexstone, J. Coleman, K. Garbutt, and J. Skousen. 2003. Physical, chemical, and microbial contaminants in domestic wastewater following treatment by constructed wetlands. *Water Research* 37:921-927.
- 66 Stewart, J., and J. Skousen. 2003. Water quality changes in a polluted stream over a twenty-five-year period. *J. Environ. Qual.* 32: 654-661.
- 67 Ziemkiewicz, P., J. Skousen, and J. Simmons. 2003. Long-term performance of passive acid mine drainage treatment systems. *Mine Water Environ.* 22: 118-129.
- 68 Skousen, J., J. Simmons, and P. Ziemkiewicz. 2002. Acid-base accounting to predict post-mining drainage quality on surface mines. *J. Environ. Qual.* 31(6): 2034-2044.
- 69 Egan, A., R. Hicks, K. Waldron, and J. Skousen. 2002. Effects of shovel logging and rubber-tired skidding on surface soil attributes in a selectively harvested central hardwood stand. *International J. Forest Eng.* 13(1): 27-32.
- 70 Lenter, C., L. McDonald, J. Skousen, and P. Ziemkiewicz. 2002. The effects of sulfate on the physical and chemical properties of actively treated acid mine drainage floc. *Mine Water and the Env.* 21: 114-120.
- 71 Coleman, J., K. Hench, K. Garbutt, A. Sexstone, G. Bissonnette, and J. Skousen. 2001. Treatment of domestic wastewater by three plant species in constructed wetlands. *Water, Air, Soil Pollution* 128: 283-295.
- 72 Demchak, J., T. Morrow, and J. Skousen. 2001. Treatment of acid mine drainage by vertical flow wetlands in Pennsylvania. *Geochemistry: Exploration, Environment, Analysis* 2:71-80.
- 73 Skousen, J., J. Sencindiver, K. Owens, and S. Hoover. 1998. Physical properties of minesoils in West Virginia and their influence on wastewater treatment. *J. Environ. Qual.* 27: 633-639.
- 74 Skousen, J., J. Renton, H. Brown, P. Evans, B. Leavitt, K. Brady, L. Cohen, and P. Ziemkiewicz. 1997. Neutralization potential of overburden samples containing siderite. *J. Environ. Qual.* 26: 673-681.
- 75 Dabaan, M.E., A.M. Magadlela, W.B. Bryan, B.L. Arbogast, E.C. Prigge, G. Flores, and J.G. Skousen. 1997. Pasture development during brush clearing with sheep and goats. *J. Range Manage.* 50: 217-221.
- 76 Ziemkiewicz, P.F., J.G. Skousen, D.L. Brant, P.L. Sterner, and R.J. Lovett. 1997. Acid mine drainage treatment with armored limestone in open limestone channels. *J. Environ. Qual.* 26: 1017-1024.
- 77 Zeleznik, J., and J. Skousen. 1996. Survival of three tree species on old reclaimed surface mines in Ohio. *J. Environ. Qual.* 25: 1429-1435.
- 78 Coffindaffer-Ballard, D., B. Bearce, J. Skousen, and G. Lambert. 1996. A demonstration of horticultural crop production on a reclaimed surface mine site in southern West Virginia. *HortScience*.
- 79 Johnson, C., and J. Skousen. 1995. Minesoil properties of 15 abandoned mine land sites in West Virginia. *J. Environ. Qual.* 24: 635-643.
- 80 Magadlela, A.M., M. Dabaan, W. Bryan, E. Prigge, J. Skousen, G. D'Souza, B. Arbogast, and G. Flores. 1995. Brush clearing on hill land pasture with sheep and goats. *J. Agronomy and Crop Science* 174: 1-8.
- 81 Skousen, J., C. Johnson, and K. Garbutt. 1994. Natural revegetation of 15 abandoned mine land sites in West Virginia. *J. Environ. Qual.* 23: 1224-1230.
- 82 Skousen, J., and C. Clinger. 1993. Sewage sludge land application program in West Virginia. *J. Soil and Water Conservation* 48: 145-151.
- 83 Ballard, D., J. Popenoe, B. Bearce, J. Skousen. 1993. Strawberry growth and development in three mine soils amended with sludge, hardwood bark or a sudan-sorgham green manure crop. *HortScience*.

- 84 Skousen, J.G. 1990. Methods to determine vegetation production on surface mines. *International J. of Surface Mining and Reclamation* 4: 173-179.
- 85 Skousen, J.G., A. Call, and R.W. Knight. 1990. Natural revegetation of an unreclaimed lignite surface mine in east-central Texas. *Southwestern Naturalist* 35: 157-163.
- 86 Skousen, J.G., C.A. Call, and R.W. Weaver. 1989. Recovery of <sup>15</sup>N-labelled fertilizer by Coastal bermudagrass in lignite minesoil. *Plant and Soil* 114: 39-43.
- 87 Skousen, J.G., J.N. Davis, and J. Brotherson. 1989. Evaluation of pinyon-juniper chaining and seeding projects for big game in central Utah. *J. Range Manage.* 42: 98-104.
- 88 Skousen, J.G., and C.A. Call. 1987. Grass and forb species for revegetation of mixed soil-lignite overburden in east central Texas. *J. Soil and Water Conservation* 42: 438-442.
- 89 Skousen, J.G., and C.A. Call. 1987. Sod-seeding to modify Coastal bermudagrass on reclaimed lignite overburden in Texas. *Reclamation and Revegetation Research* 6: 163-176.
- 90 Skousen, J.G., J.N. Davis, and J.D. Brotherson. 1986. Comparison of vegetation patterns resulting from bulldozing and two-way chaining on a Utah pinyon-juniper big game range. *Great Basin Naturalist* 46: 508-512.
- 91 Skousen, J.G., and J.D. Brotherson. 1982. Behavior and habitat preferences of ring-necked pheasants during late winter in central Utah. *Great Basin Naturalist* 42: 562-566.

### **Proceedings Articles: Total 116**

- 1 Skousen, J. 2016. A brief overview of control and treatment technologies for acid mine drainage with special emphasis on passive systems. In: *Proceedings, 2016 West Virginia Mine Drainage Task Force Symposium, March 29-30, 2016, Morgantown, WV.* <https://wvmdtaskforce.files.wordpress.com/2016/04/2016-skousen-amd-treatment-task-force-2016.pdf>
- 2 Skousen, J., C. Zipper, A. Rose, and L. McDonald. 2015. Passive systems for treating mine drainage. In: *Proceedings, Mines and the Environment Symposium, June 15-17, 2015, Rouyn-Noranda, Canada.*
- 3 Skousen, J., and C. Zipper. 2014. Post-mining land use options in the Appalachian Coal Mining Region of the USA. In: *Proceedings, Life-of-Mine 2014: Delivering Sustainable Legacies through Integrated Life-of-Mine Planning, Australian Institute of Mining and Metallurgy, Brisbane, Australia, 16-18 July 2014.*
- 4 Odenheimer, J., J. Skousen, and L. McDonald. 2013. Predicting total dissolved solids release from overburden in Appalachian coalfields. In: *Proceedings, American Society for Mining and Reclamation, Laramie, WY. June 3-6, 2013.*
- 5 Wilson-Kokes, L., J. Skousen, P. Emerson, C.DeLong, and C. Thomas. 2013. Growth of hardwood trees on brown and gray mine spoils in West Virginia. In: *Proceedings, American Society for Mining and Reclamation, Laramie, WY. June 3-6, 2013.*
- 6 Brown, C., and J. Skousen. 2013. Growth of switchgrass on reclaimed surface mines. In: *Proceedings, American Society for Mining and Reclamation, Laramie, WY. June 3-6, 2013.*
- 7 Skousen, J., and B. Gutta. 2013. Reclamation of mined land with switchgrass, *Miscanthus*, and *Arundo* for bioenergy production. In: *Proceedings, American Society for Mining and Reclamation, Laramie, WY. June 3-6, 2013.*
- 8 McDonald, L.M., A. Burgess, J. Skousen, J.L. Cook, W.E. Veselka and J.T. Anderson. 2013. Reducing Negative Impacts of Poultry Litter on Water Quality by Developing Alternative Markets for Poultry Litter Biochar. *From Waste to Worth: "Spreading" Science & Solutions.* Denver, Colorado. Grand Hyatt Hotel. April 1-5, 2013.
- 9 Marra, M., and J. Skousen. 2012. Switchgrass potential on reclaimed surface mines for biofuel production in West Virginia. In: *Proceedings, American Soc. Mining and Reclamation, Tupelo, MS, 8-15 June, 2012.*
- 10 Skousen, J. 2012. Chestnut survival and growth after four years on surface mines in West Virginia. In: *Proceedings, American Soc. Mining and Reclamation, Tupelo, MS, 8-15 June, 2012.*
- 11 Anderson, J., C. Eddy, R. Hager, L. McDonald, J. Pitchford, J. Skousen, and W. Veselka IV. 2012. Reducing impacts of poultry litter on water quality by developing markets for energy and mine land reclamation. Athens: ATINER'S Conference Paper Series, No: ENV2012-0069. 12pp
- 12 Thomas, C., and J. Skousen. 2011. Hardwood tree performance on amended brown and gray mine spoils after four years. p. 655-675. In: *Proceedings, 2011 National Meeting of the American Society of Mining and Reclamation, Bismarck, ND, June 13-16, 2011. ASMR, Lexington, KY.*
- 13 Skousen, J., C. Zipper, J. Burger, P. Angel, and C. Barton. 2011. Selecting topsoil substitutes for forestry mine soils. p. 591-609. In: *Proceedings, 2011 National Meeting of the American Society of Mining and Reclamation, Bismarck, ND, June 13-16, 2011. ASMR, Lexington, KY. DOI 10.21000/JASMR11010591*
- 14 Skousen, J., J. Gorman, E. Pena-Yewtukhiw, J. King, J. Stewart, P. Emerson, and C. DeLong. 2010. Seed colonization of five commercial hardwoods after seven years in reclaimed mine soils of West Virginia. In: *Proceedings, American Society of Mining and Reclamation, Pittsburgh, PA, June 5-11, 2010.*
- 15 Skousen, J., R. Thorne, and E. Pena-Yewtukhiw. 2010. Survival and growth of chestnut hybrid seeds and seedlings on mountaintop surface mines in West Virginia. p. 1144-1160. In: *Proceedings, 2010 National Meeting of the American Society of Mining and Reclamation, Pittsburgh, PA, June 5-11, 2010. ASMR, Lexington, KY.*
- 16 Keene, T., and J. Skousen. 2010. Mine soil reclamation with switchgrass for biofuel production. p. 489-503. In: *Proceedings, 2010 National Meeting of the American Society of Mining and Reclamation, Pittsburgh, PA, June 5-11, 2010. ASMR, Lexington, KY.*

- 17 Skousen, J., and P. Emerson. 2010. Release of nutrients from brown and gray sandstone soil substitutes in southern West Virginia. p. 1135-1143. In: Proceedings, 2010 National Meeting of the American Society of Mining and Reclamation, Pittsburgh, PA, June 5-11, 2010. ASMR, Lexington, KY. DOI 10.21000/JASMR.100011135
- 18 Skousen, J., T. Keene, C. DeLong, E. Pena-Yewtukhiw, and T. Cook. 2009. Survival and growth of five chestnut seed types on mountaintop surface mines in West Virginia. p. 1276-1291. In: Proceedings, 2009 National Meeting of the American Society of Mining and Reclamation, Billings, MT, June 1-5, 2009. ASMR, Lexington, KY.
- 19 Skousen, J., and P. Emerson. 2008. Growth of native hardwoods on surface mines. In: 2008 National Convention, Society of American Foresters, Nov. 5-9, 2008, Reno, NV.
- 20 Emerson, P., and J. Skousen. 2008. Survival and growth of native hardwoods on a reclaimed surface mine. P. 358-376. In: Proceedings, 2008 American Society of Mining and Reclamation, June 14-19, 2008, Richmond, VA.
- 21 Mack, B., and J. Skousen. 2008. Acidity decay curves of 40 above drainage mines in West Virginia. P. 612-627. In: Proceedings, 2008 American Society of Mining and Reclamation, June 14-19, 2008, Richmond, VA.
- 22 Skousen, J., and W. Stanley. 2008. The 30<sup>th</sup> Anniversary of the formation of the West Virginia Mine Drainage Task Force: A historical perspective. In: 2008 West Virginia Mine Drainage Task Force Symposium, April 22-23, 2008, Morgantown, WV.
- 23 Mack, B., and Skousen, J. 2008. Duration of acid mine drainage from above-drainage underground mines in northern West Virginia. In: 2008 West Virginia Mine Drainage Task Force Symposium, April 22-23, 2008, Morgantown, WV.
- 24 Cook, T., J. Skousen, and T. Hilton. 2008. Effect of alkaline fills on AMD control. In: 2008 West Virginia Mine Drainage Task Force Symposium, April 22-23, 2008, Morgantown, WV.
- 25 Skousen, J. 2007. Reclamation practices and soil reconstruction for grasses and trees. P. 67-72. In: Proceedings, International Symposium on Mine Reclamation, Gangwon-do, Korea, Sept. 113-14, 2007.
- 26 Emerson, P., and J. Skousen. 2007. Survival and growth of native hardwoods on a reclaimed surface mine. P. 229-237. In: Proceedings, 2007 American Society of Mining and Reclamation, June 3-6, 2007, Gillette, WY.
- 27 Mack, B., and J. Skousen. 2007. Changes in water quality of 34 above-drainage mines in West Virginia. P. 413-423. In: Proceedings, 2007 American Society of Mining and Reclamation, June 3-6, 2007, Gillette, WY.
- 28 Skousen, J. L. McDonald, J. Demchak, and B. Mack. 2006. Water quality from above-drainage underground mines over a 40-year period. P. 2044-2054. In: Proceedings, 2006 American Society of Mining and Reclamation, March 26-30, 2006, St. Louis, MO.
- 29 Venable, C., and J. Skousen. 2005. Relating soil properties to native plant establishment along West Virginia highways. p. 1202-1214. In: Proceedings, 2005 American Society of Mining and Reclamation, June 18-25, 2005, Breckenridge, CO.
- 30 Skousen, J., and P. Ziemkiewicz. 2005. Performance of 116 passive treatment systems for acid mine drainage. . p. 1100-1133. In: Proceedings, 2005 American Society of Mining and Reclamation, June 18-25, 2005, Breckenridge, CO.
- 31 Venable, C., and J. Skousen. 2004. Native species establishment on highway corridors in West Virginia. p. 1937-1949. In: Proceedings, 2004 American Society of Mining and Reclamation, April 18-21, 2004, Morgantown, WV.
- 32 Igo, W., and J. Skousen. 2004. Channel development on unreclaimed surface mines in the Beaver Creek Watershed, Tucker County, WV. p. 957-968. In: Proceedings, 2004 American Society of Mining and Reclamation, April 18-21, 2004, Morgantown, WV.
- 33 Skousen, J., and J. Sencindiver. 2004. Soil properties important to stream development on mined lands. p. 1750-1768. In: Proceedings, 2004 American Society of Mining and Reclamation, April 18-21, 2004, Morgantown, WV.
- 34 Yang, Kim, Choi, Kim, Shin, An, and Skousen. 2004. Reclamation of abandoned coal mine wastes using cake by-products in Korea. p. 2067-2078. In: Proceedings, 2004 American Society of Mining and Reclamation, April 18-21, 2004, Morgantown, WV.
- 35 Skousen, J., J. Simmons, and P. Ziemkiewicz. 2003. Acid-base accounting to predict post-mining water quality on surface mines. p. 554-571. In: Proceedings, 2003 Society of Mining and Engineering, February 24-26, 2003, Cincinnati, OH.
- 36 Skousen, J., and R. Fortney. 2003. Initial results of native species establishment on highway corridors in West Virginia. p. 1172-1185. In: 2003 National Meeting of the American Society of Mining and Reclamation, Billings, MT, June 3-6, 2003.
- 37 Gorman, J., and J. Skousen. 2003. Second year survival of commercial hardwoods on reclaimed minesoils in WV. p. 279-291. In: 2003 National Meeting of the American Society of Mining and Reclamation, Billings, MT, June 3-6, 2003.
- 38 Jones, J., J. Sencindiver, and J. Skousen. 2003. Using minesoil and overburden analyses to locate a highway in WV. p. 533-548. In: 2003 National Meeting of the American Society of Mining and Reclamation, Billings, MT, June 3-6, 2003.
- 39 King, J., and J. Skousen. 2003. Tree survival on a mountaintop surface mine in West Virginia. p. 563-574. In: 2003 National Meeting of the American Society of Mining and Reclamation, Billings, MT, June 3-6, 2003.
- 40 Stephens, K., J. Sencindiver, and J. Skousen. 2003. Characterization of natural wetland soils receiving acid mine drainage. p. 1240-1265. In: 2003 National Meeting of the American Society of Mining and Reclamation, Billings, MT, June 3-6, 2003.
- 41 Gorman, J., J. Skousen, and J. King. 2002. Initial survival of commercial hardwoods on reclaimed minesoils in West Virginia. p. 212-225. In: Proceedings, 19<sup>th</sup> Annual Meeting of the American Society for Mining and Reclamation, June 9-13, 2002, Lexington, KY.
- 42 Skousen, J. 2002. A brief overview of control and treatment technologies for acid mine drainage. p. 879-899. In: Proceedings, 19<sup>th</sup> Annual Meeting of the American Society for Mining and Reclamation, June 9-13, 2002, Lexington, KY.
- 43 Skousen, J. 2002. Treatment of acid mine drainage. p. 29-41 In: Proceedings, International Conference on New Frontiers in Reclamation. 19-21 September 2001, Milos Island, Greece.

- 44 Demchak, J., J. Skousen, and L. McDonald. 2002. Water quality from underground coal mines in northern West Virginia (1968-2000). p. 17-29. In: Proceedings, West Virginia Surface Mine Drainage Task Force, April 16-17, 2002, Morgantown, WV. Also published in the National Association of Abandoned Mine Land Reclamation, September 15-19, 2002, Park City, UT.
- 45 Skousen, J., J. Simmons, and P. Ziemkiewicz. 2002. Predicting post-mining water quality of surface mines by acid-base accounting. p. 54-71. In: Proceedings, West Virginia Surface Mine Drainage Task Force, April 16-17, 2002, Morgantown, WV.
- 46 McDonald, L., J. Skousen, J. Selfridge, and P. Ziemkiewicz. 2002. Effects of chemical and sulfate on floc characteristics for treating acid mine drainage. p. 77. In: Proceedings, West Virginia Surface Mine Drainage Task Force, April 16-17, 2002, Morgantown, WV.
- 47 Ziemkiewicz, P., J. Skousen, and J. Simmons. 2002. Long-term performance of passive acid mine drainage treatment systems. p. 98-108. In: Proceedings, West Virginia Surface Mine Drainage Task Force, April 16-17, 2002, Morgantown, WV.
- 48 Skousen, J., J. Simmons, and P. Ziemkiewicz. 2001. The use of acid-base accounting to predict post-mining drainage quality on West Virginia surface mines. pp. 437-447. In: Proceedings, 18<sup>th</sup> Annual Meeting, American Society for Surface Mining and Reclamation, 2-7 June, 2001, Albuquerque, NM. Also, pp. 63-82. In: Proceedings, 22<sup>nd</sup> West Virginia Surface Mine Drainage Task Force Symposium, 3-4 April, 2001, Morgantown, WV.
- 49 Demchak, J., J. Skousen, and L. McDonald. 2001. Water quality improvements over time and longevity of acid mine discharges from underground mines in northern West Virginia. pp. 174-182. In: Proceedings, 18<sup>th</sup> Annual Meeting, American Society for Surface Mining and Reclamation, 2-7 June, 2001, Albuquerque, NM.
- 50 Gorman, J., J. Skousen, J. Sencindiver, and P. Ziemkiewicz. 2001. Forest productivity and minesoil development under a white pine plantation versus natural vegetation after 30 years. pp. 103-111. In: Proceedings, 18<sup>th</sup> Annual Meeting, American Society for Surface Mining and Reclamation, 2-7 June, 2001, Albuquerque, NM.
- 51 Thomas, K., J. Sencindiver, J. Skousen, and J. Gorman. 2001. Chemical properties of minesoils on a mountaintop removal mine in southern West Virginia. pp. 448-456. In: Proceedings, 18<sup>th</sup> Annual Meeting, American Society for Surface Mining and Reclamation, 2-7 June, 2001, Albuquerque, NM.
- 52 Stephens, K., A. Sexstone, J. Sencindiver, J. Skousen, and K. Thomas. 2001. Microbial indicators of minesoil quality in southern West Virginia. pp. 317-325. In: Proceedings, 18<sup>th</sup> Annual Meeting, American Society for Surface Mining and Reclamation, 2-7 June, 2001, Albuquerque, NM.
- 53 McDonald, L., Q. Sun, J. Skousen, and P. Ziemkiewicz. 2001. Water quality prediction model in open limestone systems. pp. 279-282. In: Proceedings, 29<sup>th</sup> International Symposium on Computer Applications in the Mineral Industries. 25-27 April, 2001, Beijing, China.
- 54 Hamric, R., V. Miller, and J. Skousen. 2001. Alkaline addition techniques in the prevention of acid mine drainage. pp. 83-92. In: Proceedings, 22<sup>nd</sup> West Virginia Surface Mine Drainage Task Force Symposium, 3-4 April, 2001, Morgantown.
- 55 Stewart, J., and J. Skousen. 2001. Changes in water quality in Deckers Creek from 1974 to 1999-2000. pp. 110-126. In: Proceedings, 22<sup>nd</sup> West Virginia Surface Mine Drainage Task Force Symposium, 3-4 April, 2001, Morgantown, WV. Also in the Proceedings of the National Association of Abandoned Mine Lands Annual Meeting, 19-21 August 2001, Athens, OH.
- 56 Ziemkiewicz, P., J. Skousen, and J. Simmons. 2001. Cost benefit analysis of passive treatment systems. pp. 127-143. In: Proceedings, 22<sup>nd</sup> West Virginia Surface Mine Drainage Task Force Symposium, 3-4 April, 2001, Morgantown, WV.
- 57 Demchak, J., J. Skousen, G. Bryant, and P. Ziemkiewicz. 2000. Comparison of water quality from fifteen underground coal mines in 1968 and 1999. p. 1045-1052. In: Proceedings, International Conference on Acid Rock Drainage. 21-24 May, 2000. Denver, CO. Similar paper published in the 21st West Virginia Surface Mine Drainage Task Force Symposium, 3-4 April, 2000, Morgantown, WV.
- 58 Stewart, J., J. Skousen, and J. Gorman. 2000. Changes in water quality in Deckers Creek from 1974 to 1999. p. 98-108. In: Proceedings, 17th Annual Meeting, American Society for Surface Mining and Reclamation, 11-15 June, 2000, Tampa.
- 59 Thomas, K., J. Sencindiver, J. Skousen, and J. Gorman. 2000. Soil development on a mountaintop removal mine in southern West Virginia. p. 546-556. In: Proceedings, 17th Annual Meeting, American Society for Surface Mining and Reclamation, 11-15 June, 2000, Tampa, FL.
- 60 Sun, Q., L. McDonald, and J. Skousen. 2000. Effects of armoring on limestone neutralization of acid mine drainage. p. 93-102. In: Proceedings, 21st West Virginia Surface Mine Drainage Task Force Symposium, 3-4 April, 2000, Morgantown.
- 61 Skousen, J., A. Sexstone, J. Cliff, and P. Sterner. 1999. Acid mine drainage treatment by anoxic limestone drains and composted wetlands. p. 621-633. In: 1999 American Society for Surface Mining and Reclamation, Phoenix, AZ.
- 62 Sexstone, A., J. Skousen, J. Calabrese, D.K. Bhumbla, J. Sencindiver, and G. Bissonnette. 1999. Iron removal from acid mine drainage by wetlands. p. 609-620. In: 1999 American Society for Surface Mining and Reclamation, Phoenix, AZ.
- 63 Skousen, J., J. Gorman, and P. Ziemkiewicz. 1999. Long term effects of acid mine drainage remediation projects on stream quality. In: Proceedings, Twentieth West Virginia Surface Mine Drainage Task Force Symposium, Morgantown.
- 64 Black, C., P. Ziemkiewicz, and J. Skousen. 1999. Construction of a limestone leach bed and preliminary water quality results in Beaver Creek. In: Proceedings, Twentieth West Virginia Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 65 Sterner, P., J. Skousen, and J. Donovan. 1998. Geochemistry of laboratory anoxic limestone drains. p. 214-234. In: 1998 American Society for Surface Mining and Reclamation, St. Louis, MO.
- 66 Skousen, J., and D.K. Bhumbla. 1998. Metal release from fly ash upon leaching with sulfuric acid or acid mine drainage. p. 713-721. In: 1998 American Society for Surface Mining and Reclamation, St. Louis, MO.

- 67 Skousen, J., R. Hedin, and B. Faulkner. 1997. Water quality changes and costs of reining in Pennsylvania and West Virginia. p. 64-73. In: 1997 American Society for Surface Mining and Reclamation, Austin, TX.
- 68 Skousen, J., D.K. Bhumbra, J. Gorman, and J. Sencindiver. 1997. Hydraulic conductivity of ash mixtures and metal release upon leaching. p. 480-495. In: 1997 American Society for Surface Mining and Reclamation, Austin.
- 69 Burnett, M., and J. Skousen. 1996. Injection of limestone into underground mines for AMD control. In: Proceedings, Sixteenth West Virginia Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 70 Cliff, J., P. Sterner, J. Skousen, and A. Sexstone. 1996. Treatment of acid mine drainage with a combined wetland/anoxic limestone drain: a comparison of laboratory versus field results. In: Proceedings, Sixteenth West Virginia Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 71 Phipps, T., J. Skousen, and J. Fletcher. 1996. A methodology for evaluating the costs of selective handling of overburden materials. p. 407-423. In: Proceedings, 1996 Meeting of the American Society for Surface Mining and Reclamation, Knoxville, TN.
- 72 Skousen, J., J. Renton, H. Brown, and P. Evans. 1996. Effect of digestion method, siderite content, and fizz rating on neutralization potential of overburden samples. In: Proceedings, Sixteenth West Virginia Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 73 Ziemkiewicz, P., J. Skousen, and D. Brant. 1996. Acid mine drainage treatment with open limestone channels. p. 367-374. In: Proceedings, 1996 Meeting of the American Society for Surface Mining and Reclamation, Knoxville.
- 74 Skousen, J., B. Faulkner, and P. Sterner. 1995. Passive treatment systems and improvement of water quality. In: Proceedings, Fifteenth West Virginia Surface Mine Drainage Task Force Symposium, Morgantown.
- 75 Evans, P., and J. Skousen. 1995. Effect of digestion method on neutralization potential of overburden samples containing siderite. p. 696-707. In: Proceedings, 1995 National Meeting of the American Society for Surface Mining and Reclamation, Gillette, WY.
- 76 Leavitt, B., J. Skousen, and P. Ziemkiewicz. 1995. Effects of siderite on the neutralization potential in the acid-base account. In: Proceedings, Fifteenth West Virginia Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 77 Skousen, J. 1995. History of reclamation and revegetation in West Virginia. In: Proceedings, Reclamation of Surface-Mined Forest Land. May 10, 1995, Twin Falls State Park, Mullens, WV.
- 78 Faulkner, B., and J. Skousen. 1994. Treatment of acid mine drainage by passive treatment systems. p. 250-257. In: International Land Reclamation and Mine Drainage Conference. Vol. 2. USDI, Bureau of Mines SP06B-94. Pittsburgh, PA.
- 79 Skousen, J., and G. Larew. 1994. Alkaline overburden addition to acid-producing materials to prevent acid mine drainage. p. 375-381. In: International Land Reclamation and Mine Drainage Conference. Vol. 1. USDI, Bureau of Mines SP 06B-94. Pittsburgh, PA.
- 80 Faulkner, B., and J. Skousen. 1993. Monitoring of passive treatment systems: an update. In: Proceedings, Fourteenth West Virginia Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 81 Jenkins, M., and J. Skousen. 1993. Acid mine drainage treatment with the Aquafix System. In: Proceedings, Fourteenth West Virginia Surface Mine drainage Task Force Symposium, Morgantown, WV.
- 82 Owens, K., and J. Skousen. 1993. Disposal and treatment of wastewater on surface-mined lands in southern West Virginia. p. 155-162. In: Proceedings, 1993 American Society for Surface Mining and Reclamation Conference, Spokane.
- 83 Zeleznik, J.D., J.G. Skousen, H.V. Wiant. 1993. Tree survival and growth on two 45-year-old reforestation projects in eastern Ohio. p. 714-723. In: Proceedings, 1993 American Society for Surface Mining and Reclamation Conference, Spokane, WA.
- 84 Johnson, C.D., and J.G. Skousen. 1992. Plant community characteristics as an indicator of minesoil conditions on AML sites in West Virginia. p. 289-303. In: Proceedings, 1992 Meeting of the American Society for Surface Mining and Reclamation, Duluth, MN.
- 85 Larew, G., and J. Skousen. 1992. An ounce of prevention is worth a pound of water treatment! In: Proceedings, Thirteenth West Virginia Surface Mine Drainage Task Force Symposium, Morgantown.
- 86 Phipps, T.T., P. Cooley, and J. Skousen. 1992. A methodology for evaluating the costs of selective handling. In: Proceedings, Thirteenth West Virginia Surface Mine Drainage Task Force Symposium, Morgantown.
- 87 Skousen, J.G., T.T. Phipps, and J. Fletcher. 1992. Acid mine drainage treatment alternatives. In: Proceedings, International Symposium: Land Reclamation, Nashville, TN.
- 88 Skousen, J. 1992. Disposal and treatment of wastewater on reclaimed mined lands. p. 41-45. In: Technologies for Competitive Growth in West Virginia. The Software Valley Foundation and National Research Center for Coal and Energy. Shepherdstown, WV.
- 89 Ziemkiewicz, P., and J. Skousen. 1992. Prevention of acid mine drainage by alkaline addition. In: Proceedings, Thirteenth West Virginia Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 90 Zucker, D.A., T.T. Phipps, J. Skousen, and J. Fletcher. 1992. Treatment technologies and cost evaluation for watershed restoration: a case study in northern West Virginia. In: Proceedings, Thirteenth West Virginia Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 91 Zucker, D., T. Phipps, J. Skousen, and J. Fletcher. 1992. Development of a method for the watershed approach to acid mine drainage abatement. p. 537-547. In: Proceedings, 1992 Meeting of the American Society for Surface Mining and Reclamation, Duluth, MN.

- 92 Calabrese, J.P., A.J. Sexstone, D.K. Bhumbra, J.C. Sencindiver, G.K. Bissonnette, and J.G. Skousen. 1991. Chemical and microbiological modification of acid mine drainage using constructed *Typha* wetlands. In: Proceedings, Twelfth Annual West Virginia Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 93 Faulkner, B., and J. Skousen. 1991. Field trials in AMD treatment. In: Proceedings, Twelfth Annual West Virginia Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 94 Fletcher, J.J., T.T. Phipps, and J.G. Skousen. 1991. Cost analysis for treating acid mine drainage from coal mines. p. 561-574. In: Proceedings, Second International Conference on the Abatement of Acidic Drainage. Vol 1. Montreal, Canada.
- 95 Johnson, Curt D., and Jeff G. Skousen. 1991. Minesoil weathering on Kittanning abandoned mine land (AML) sites in West Virginia. p. 479-490. In: Proceedings, 1991 Meeting of the American Society for Surface Mining and Reclamation. Durango, CO.
- 96 Phipps, T., J. Fletcher, W. Fiske, and J. Skousen. 1991. A methodology for evaluating the costs of alternative AMD treatment systems. In: Proceedings, Twelfth Annual West Virginia Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 97 Rymer, T.E., J.G. Skousen, J.J. Renton, A.M. Zondlo, and P.F. Ziemkiewicz. 1991. Undetected sources of detectable acid mine drainage. Some statistical considerations in rock sampling. p. 107-118. In: Proceedings, Second International Conference on the Abatement of Acidic Drainage. Vol. 3. Montreal.
- 98 Sencindiver, J., and J. Skousen. 1991. Wetlands for acid mine drainage treatment. p. 294-299. In: Proceedings, American Society of Civil Engineers, Energy in the Nineties. Pittsburgh, PA.
- 99 Skousen, J.G. 1991. An evaluation of acid mine drainage treatment systems and costs. p. 173-178. In: Proceedings, Environmental Management for the 1990's. Society for Mining, Metallurgy, and Exploration, Inc., Littleton.
- 100 Skousen, J.G. 1991. Overview of acid mine drainage control strategies. p. 306-309. In: Proceedings, American Society of Civil Engineers, Energy in the Nineties. Pittsburgh, PA.
- 101 Skousen, J.G., and C.J. Miller. 1991. Cooperative efforts in AMD solutions: The Surface Mine Drainage Task Force and the AMD Technical Advisory Committee. p.227-234. In: Proceedings, Second International Conference on the Abatement of Acidic Drainage. Vol. 3. Montreal, Canada.
- 102 Skousen, J.G., and Ben B. Faulkner. 1991. Field experiences in acid mine drainage prevention. In: Proceedings, Twelfth Annual West Virginia Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 103 Johnson, C., and J.G. Skousen. 1990. Tree composition and importance on several AML sites in northern West Virginia. p. 545-553. In: Skousen et al. (eds.), Proceedings, 1990 Mining and Reclamation Conference and Exhibition, West Virginia University, Morgantown, WV.
- 104 Skousen, J.G. 1990. Evaluation of methods to determine plant productivity for bond release. p. 193-202. In: Skousen et al. (eds.), Proceedings, 1990 Mining and Reclamation Conference and Exhibition, West Virginia University, Morgantown, WV.
- 105 Skousen, J.G. 1989. Artificial wetlands to treat mine water discharges. p. 1-7. In: Proceedings, 1989 Powell River Project Symposium. Wise, VA.
- 106 Skousen, J.G. 1989. Current reclamation research and evaluation of reclamation technologies. In: Proceedings, Ninth Annual West Virginia Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 107 Zipper, C.E., and J.G. Skousen. 1989. Income opportunities on reclaimed surface mined lands in central Appalachia. p. 128-133. In: Proceedings, Income Opportunities for the Private Landowner through Management of Natural Resources and Recreational Access. R.D. #740. West Virginia University Extension Service. Morgantown.
- 108 Skousen, J.G. 1988. An evaluation of methods for determining pasture and hay production on reclaimed surface mines. p. 227-284. In: Mine Drainage and Surface Mine Reclamation. Bureau of Mines Information Circular 9184. Pittsburgh, PA.
- 109 Skousen, J.G. 1988. Effects of sewage sludge application on a revegetated minesoil in West Virginia. p. 214-220. In: Mine Drainage and Surface Mine Reclamation. Bureau of Mines Information Circular 9184. Pittsburgh, PA.
- 110 Skousen, J.G., C.A. Call, and R.W. Knight. 1988. A chronosequence of vegetation and minesoil development on a Texas lignite surface mine. p. 79-88. In: Mine Drainage and Surface Mine Reclamation. Bureau of Mines Information Circular 9184. Pittsburgh, PA.
- 111 Skousen, J.G. 1987. Impacts of energy industries on ground water: Mining procedures underground and surface. In: WV Ground Water '87: Status and Future Directions. Morgantown, WV.
- 112 Skousen, J.G. 1987. Land reclamation - challenges and opportunities. In: Proceedings, Eighth Annual Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 113 Skousen, J.G., J.C. Sencindiver, and R.M. Smith. 1987. Procedures for mining and reclamation in areas with acid-producing materials: An overview. In: Proceedings, Eighth Annual Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 114 Skousen, J.G. 1986. A cooperative approach to mined land reclamation. In: Proceedings, Seventh Annual Surface Mine Drainage Task Force Symposium, Morgantown, WV.
- 115 Skousen, J.G., and C.A. Call. 1985. Sod-seeding low maintenance plant species into Coastal bermudagrass on lignite overburden in Texas. p. 18-23. In: Proceedings, 1985 American Society for Surface Mining and Reclamation Conference, Denver, CO.
- 116 Skousen, J.G., and C.A. Call. 1984. Performance of range forage species interseeded in Coastal bermudagrass on lignite overburden. p. 185-190. In: Forage Research in Texas. Texas Agricultural Experiment Station. Texas A&M University, College Station, TX.

## **Extension Articles: Total 83**

- 1 Hu, Z., and J. Skousen. 2021. Detection of burning coal waste piles and their ecological restoration in China. *Reclamation Matters*, Spring 2021. 25-29.
- 2 Hubbart, J., and J. Skousen. 2021. Effects of legacy coal mining in contemporary watersheds: A West Virginia case study. *Reclamation Matters*, Spring 2021. 30-35.
- 3 Zipper, C., and J. Skousen. 2021. Appalachia's Coal Mined Landscapes. Book Preview. *Reclamation Matters*, Spring 2021. 36.
- 4 Skousen, J, E. Pena-Yewtukhiw, L. McDonald, E. Rayburn, T. Basden, and J. Thompson. 2020. The WVU soil testing laboratory: an update on revisions. WVU Extension Service, Agriculture and Natural Resources Newsletter, March 2020.
- 5 Skousen, J. 2020. The beginning of Reclamation Matters. *Reclamation Matters*, Fall 2020: 20-22.  
<https://www.asrs.us/Publications/Reclamation-Matters>
- 6 Skousen, J., A. Monteleone, M. Tyree, R. Swab, J. Groninger, M. Adams, D. Buckley, P. Wood, R. Williams, S. Eggerud, P. Angel, and C. Zipper. 2020. Establishing small trees and shrubs on mined lands using the Forestry Reclamation Approach. *Reclamation Matters*, Fall 2020: 24-30. <https://www.asrs.us/Publications/Reclamation-Matters>.
- 7 Ziemkiewicz, P., and J. Skousen. 2020. Recovery of rare earth elements from coal mine drainage. *Reclamation Matters*, Fall 2020: 32-35. <https://www.asrs.us/Publications/Reclamation-Matters>
- 8 Skousen, J., A. Monteleone, M. Tyree, R. Swab, J. Groninger, M. Adams, D. Buckley, P. Wood, R. Williams, S. Eggerud, P. Angel, and C. Zipper. 2019. Establishing small trees and shrubs on mined lands using the forestry reclamation approach. *Forestry Reclamation Advisory* No. 18, July 2019, Appalachian Regional Reforestation Initiative. <http://arri.osmre.gov/>
- 9 Owen, S., S. Grushecky, and J. Skousen. 2018. Giant Miscanthus: a bioenergy crop profile for West Virginia. NEWBio, Northeast Woody/Warm-season Biomass Consortium, State College, PA.
- 10 Humphries, N., and J. Skousen. 2018. Why do we keep having to reinvent successful reclamation processes and practices? *Reclamation Matters*, Fall 2018: 30-32. <https://www.asrs.us/Publications/Reclamation-Matters>
- 11 Skousen, J., W. Stanley, and C. Miller. 2017. The 39<sup>th</sup> anniversary of the formation of the West Virginia Mine Drainage Task Force: a historical perspective. *Reclamation Matters*, Spring 2017: 31-35. <https://www.asrs.us/Publications/Reclamation-Matters>
- 12 Skousen, J., B. Plass, R. Barnhisel, and R. Darmody. 2017. The American Society of Mining and Reclamation: from advisory council to national organization. *Reclamation Matters*, Spring 2017: 36-40. <https://www.asrs.us/Publications/Reclamation-Matters>
- 13 French, M., C. Barton, B. McCarthy, C. Keiffer, J. Skousen, C. Zipper, and P. Angel. 2015. Re-establishing American Chestnut on mined lands in the Appalachian coalfields. *Forest Reclamation Advisory* No. 12, June 2015, Appalachian Regional Reforestation Initiative. <http://arri.osmre.gov/>
- 14 Burger, J., C. Zipper, P. Angel, N. Hall, J. Skousen, C. Barton, and S. Eggerud. 2013. Establishing native trees on legacy surface mines. *Forest Reclamation Advisory* No. 11, November 2013, Appalachian Regional Reforestation Initiative. <http://arri.osmre.gov/>
- 15 Skousen, J. 2013. Land Judging in West Virginia. Guide 406R-LJ, WVU Extension Service, Morgantown, WV. <http://anr.ext.wvu.edu/r/download/44913>
- 16 Skousen, J. 2013. Homesite Evaluation in West Virginia. Guide 406R-HS, WVU Extension Service, Morgantown, WV. <http://anr.ext.wvu.edu/r/download/44912>
- 17 Skousen, J. 2013. Before you build your home: conduct a soil/site review. January 2013. AG13-06, WVU Extension Service, Morgantown, WV. <http://anr.ext.wvu.edu/r/download/153633>
- 18 Skousen, J. and D. Barnhisel. 2012. A brief history of the American Society of Mining and Reclamation. *J. Am. Soc. Mining Reclamation* 1: 123-128.
- 19 Skousen, J., C. Zipper, J. Burger, C. Barton, and P. Angel. 2011. Selecting materials for mine soil construction when re-establishing forests on Appalachian mine sites. *Forest Reclamation Advisory* No. 8, July 2011, Appalachian Regional Reforestation Initiative. <http://arri.osmre.gov/>
- 20 Skousen, J., and P. Ziemkiewicz. 2011. Reclamation of Marcellus Shale Drilling Sites in West Virginia. WVU Extension Service, Morgantown, WV. [http://anr.ext.wvu.edu/land\\_reclamation/vegetation](http://anr.ext.wvu.edu/land_reclamation/vegetation)
- 21 Burger, J., J. Skousen, C. Barton, and P. Angel. 2011. The forestry reclamation approach. *Journal of the American Chestnut Foundation* 25:18-19.
- 22 Burger, J., C. Zipper, and J. Skousen. 2010. Powell River Project – Reclamation guidelines for surface mined land – Establishing groundcover for forested postmining land uses. *Virginia Cooperative Extension* 460-124, Blacksburg, VA. <http://pubs.ext.vt.edu/460/460-124/460-124.html>
- 23 Skousen, J., and C. Zipper. 2010. Powell River Project – Revegetation species and practices. *Virginia Cooperative Extension* 460-122, Blacksburg, VA. <http://pubs.ext.vt.edu/460/460-122/460-122.html>
- 24 Burger, J., V. Davis, C. Zipper, J. Franklin, J. Skousen, C. Barton, and P. Angel. 2009. Tree-compatible ground covers for reforestation and erosion control. *Forest Reclamation Advisory* No. 6, July 2009, Appalachian Regional Reforestation Initiative. <http://arri.osmre.gov/>
- 25 Sweigard, R., J. Burger, C. Zipper, J. Skousen, C. Barton, and P. Angel. 2007. Low compaction grading to enhance reforestation success on coal surface mines. *Forest Reclamation Advisory* No. 3, July 2007, Appalachian Regional Reforestation Initiative. <http://arri.osmre.gov/>

- 26 Sweigard, R., J. Burger, D. Graves, C. Zipper, C. Barton, J. Skousen, and P. Angel. 2007. Loosening compacted soils on mined sites. Forest Reclamation Advisory No. 4, July 2007, Appalachian Regional Reforestation Initiative. <http://arri.osmre.gov/>
- 27 Groninger, J., J. Skousen, P. Angel, C. Barton, J. Burger, and C. Zipper. 2007. Mine reclamation practices to enhance forest development through natural succession. Forest Reclamation Advisory No. 5, July 2007, Appalachian Regional Reforestation Initiative. <http://arri.osmre.gov/>
- 28 Skousen, J., L. McDonald. 2005. New lime incentive program on agricultural lands. WV Farm Bureau News, Nov. 2005.
- 29 Skousen, J., and L. McDonald. 2005. Lime principles and liming products. Fact Sheet, WVU Ext. Service, November 2005.
- 30 Skousen, J. 2004. Good samples needed for good soil test results. West Virginia Farm Bureau News, February 2004.
- 31 Skousen, J. 2002. Total Maximum Daily Loads (TMDL) and Anti-degradation. Green Lands 32(1): 58-63.
- 32 Skousen, J. 2002. Changes in assigned effluent limits under TMDL and Anti-degradation. Green Lands 32:43-47.
- 33 Isabell, M., and J. Skousen. 2001. Overburden analysis and special handling at Fola Coal Company. Green Lands 31(4): 46-53.
- 34 Skousen, J., and M. Jenkins. 2001. Acid mine drainage treatment costs with calcium oxide and the Aquafix machine. Green Lands 31(3): 46-51.
- 35 Stewart, J., and J. Skousen. 2001. Changes in water quality in Deckers Creek from 1974-1999-2000. Green Lands 31(2):44-55.
- 36 Demchak, J., J. Skousen, P. Ziemkiewicz, and G. Bryant. 2001. Comparison of water quality from 12 underground coal mines in 1968 and 1999. Green Lands 31(1): 48-60.
- 37 Skousen, J., and J. Foreman. 2000. Water management techniques for AMD control. Green Lands 30(1):44-53.
- 38 Ziemkiewicz, P., and J. Skousen. 2000. Use of coal combustion products for reclamation. Green Lands 30(2): 36-48.
- 39 Thomas, K., J. Sencindiver, J. Skousen, and J. Gorman. 2000. Soil horizon development on a mountaintop surface mine in southern West Virginia. Green Lands 30(3): 41-52.
- 40 Skousen, J., J. Gorman, and P. Ziemkiewicz. 1999. Effects of two remediation projects on acid mine drainage stream quality. Green Lands 29(3): 38-48.
- 41 Black, C., P. Ziemkiewicz, J. Skousen. 1999. Adding alkalinity to water by limestone leach beds. Green Lands 29(2):49-54.
- 42 Skousen, J., P. Ziemkiewicz, and C. Venable. 1999. Evaluation of tree growth on surface mined lands in southern West Virginia. Green Lands 29(1): 43-55.
- 43 Faulkner, B., and J. Skousen. 1998. Acid mine drainage inventory in West Virginia. Green Lands 28(4): 40-47.
- 44 Gregg, I.D., J.G. Skousen, and D.E. Samuel. 1998. American woodcock use of reclaimed surface mines in West Virginia. Green Lands 28(3): 39-47.
- 45 Ziemkiewicz, P., and J. Skousen. 1998. Steel slag in acid mine drainage treatment and control. Green Lands 28(1): 46-56.
- 46 Skousen, J. 1997. Overview of passive systems for treating acid mine drainage. Green Lands 27(4): 34-43.
- 47 Ballard, D., B. Bearce, and J. Skousen. 1997. Reclaimed land for horticultural crop production. Green Lands 27(2): 31-37.
- 48 Skousen, J., M. Burnett, D. Bassage, C. Black, P. Ziemkiewicz, and D. Zucker. 1997. The watershed approach to acid mine drainage abatement: Sovern Run. Green Lands 27(1): 43-49.
- 49 Skousen, J., T. Hilton, B. Faulkner. 1996. Overview of acid mine drainage treatment with chemicals. Green Lands 26: 36-45.
- 50 Skousen, J., and C. Zipper. 1996. Revegetation species and practices. Reclamation Guidelines for Surface Mined Land in Southwest Virginia. Virginia Cooperative Extension, Publ. 460-122, Virginia Tech., Blacksburg.
- 51 Ziemkiewicz, P., D. Brant, and J. Skousen. 1996. Acid mine drainage treatment with open limestone channels. Green Lands 26(2): 32-40.
- 52 Ziemkiewicz, P., and J. Skousen. 1996. Overview of acid mine drainage at-source control strategies. Green Lands 26(1):45-52.
- 53 Faulkner, B., and J. Skousen. 1995. Effects of land reclamation and passive treatment systems on improving water quality. Green Lands 25(4): 34-40.
- 54 Skousen, J. 1995. Acid mine drainage. Green Lands 25(2): 52-55.
- 55 Skousen, J. 1995. Douglas abandoned mine land project: description of an innovative acid mine drainage treatment system. Green Lands 25(1): 29-38.
- 56 Brown, H., J. Skousen, and J. Renton. 1994. Stability of flocs produced by chemical neutralization of acid mine drainage. Green Lands 24(3): 34-39.
- 57 Brown, H., J. Skousen, and J. Renton. 1994. Volume and composition of flocs from chemical neutralization of acid mine drainage. Green Lands 24(2): 30-35.
- 58 Brown, H., J. Skousen, and J. Renton. 1994. Floc generation by chemical neutralization of acid mine drainage. Green Lands 24(1): 44-51.
- 59 Ziemkiewicz, P., J. Skousen, and R. Lovett. 1994. Open limestone channels for treating acid mine drainage: A new look at an old idea. Green Lands 24(4): 36-41.
- 60 Skousen, J., and M. Jenkins. 1993. The Aquafix System: new AMD treatment system. Green Lands 23(4): 36-38.
- 61 Skousen, J., R. Lilly, and T. Hilton. 1993. Special chemicals for treating acid mine drainage. Green Lands 23(3):34-41.
- 62 Skousen, J., and K. Politan. 1993. Remining in West Virginia. Green Lands 23(2): 42-46.
- 63 Skousen, J.G., and G. Larew. 1992. Alkaline addition to prevent acid mine drainage: Field example. Green Lands 22(3):32-35.
- 64 Skousen, J., A. Sexstone, K. Garbutt, J. Sencindiver. 1992. Wetlands for treating acid mine drainage. Green Lands 22:31-39.
- 65 Ziemkiewicz, P., and J. Skousen. 1992. Prevention of acid mine drainage by alkaline addition. Green Lands 22(2): 42-51
- 66 Faulkner, Ben B., and Jeff G. Skousen. 1991. Using ammonia to treat mine waters. Green Lands 21(1): 33-38.



- 67 Skousen, J. 1991. Anoxic limestone drains for acid mine drainage treatment. *Green Lands* 21(4): 30-35.
- 68 Skousen, Jeff, and Chuck Clinger. 1991. Is sludge the answer for revegetation. *Green Lands* 21(2): 48-51.
- 69 Skousen, J., K. Politan, T. Hilton, and A. Meek. 1990. Acid mine drainage treatment systems: chemicals and costs. *Green Lands* 20(4): 31-37.
- 70 Zipper, C.E., and J.G. Skousen. 1990. Income opportunities on reclaimed surface mine lands in central Appalachia. *Green Lands* 20(3): 20-23.
- 71 Plass, W., and J. Skousen. 1990. A short history of the American Society for Surface Mining and Reclamation. *Green Lands* 20(2): 42-43.
- 72 Skousen, J., R.M. Smith, and J. Sencindiver. 1990. The development of the Acid-Base Account. *Green Lands* 20(1):32-37
- 73 Skousen, J.G. 1989. Woody plants for revegetation. *Green Lands* 19(1): 34-37.
- 74 Skousen, J.G. 1989. Wetlands are more than two cattails! *Green Lands* 19(2): 30-32.
- 75 Sencindiver, J., and J. Skousen. 1989. Reclamation research at the West Virginia Agricultural and Forestry Experiment Station. *Green Lands* 19(3): 18-20.
- 76 Skousen, J.G. 1988. Chemicals for treating acid mine drainage. *Green Lands* 18(2): 25-27.
- 77 Skousen, J.G., and J.C. Sencindiver. 1988. The latest word on wetlands. *Green Lands* 18(2): 25-27.
- 78 Skousen, J.G. 1988. Species for revegetation - Grasses. *Green Lands* 18(1): 41-44.
- 79 Skousen, J.G. 1988. Species for revegetation - Legumes. *Green Lands* 17(4): 35-39.
- 80 Skousen, J.G. 1987. Acid soils and liming principles. *Green Lands* 17(3): 33-39.
- 81 Skousen, J.G. 1987. Fertilizer recommendations for minesoils. *Green Lands* 17(2): 13-16.
- 82 Skousen, J.G. 1987. Revegetation with tall fescue: A word of caution. *Green Lands* 16(4): 38-39.
- 83 Skousen, J.G. 1986. The use of legumes in mined land reclamation. *Green Lands* 16(2): 35-37.