

**TERRY MCLENDON  
ECOLOGIST**

**CONTACT INFORMATION**

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**EDUCATION**

BSc	Range Management	Texas Tech University	1971
MSc	Range Science	Colorado State University	1973
PhD	Range Ecology/Statistics	Texas Tech University	1979

**SUMMARY**

Dr. McLendon has 40 years research and consulting experience in the areas of plant ecology, restoration of disturbed lands, ecological modeling, ecological risk assessment, range and land management, watershed dynamics, and statistical ecology. He is the originator and co-developer of the EDYS ecological model, has authored or co-authored over 120 scientific and technical publications, has been a faculty member at three universities, and currently serves on the adjunct faculties at Texas Tech University and Colorado State University. Dr. McLendon has served as expert witness in litigation support relative to effects of hazardous materials on plants and animals and on effects of groundwater withdrawal on vegetation, has provided testimony to regulatory agencies both nationally and internationally, and has taught shortcourses for the National Park Service (vegetation sampling and monitoring and vegetation restoration), USEPA (statistical ecology, ecological risk assessment), and Montana Department of Environmental Quality (water-balance cover designs, land application of waste water). Dr. McLendon has been author or co-author on over 70 presentations at scientific meetings.

Dr. McLendon has managed over \$ 14 million in research and consulting projects in 15 states (AZ, CA, CO, HI, ID, IL, KS, ME, MT, NM, NV, TX, UT, WA, WY), Australia, Indonesia, Mexico, and Peru. His areas of expertise include ecological modeling, vegetation-groundwater linkages, design of water-balance covers for mined-land reclamation, secondary ecological succession, restoration ecology, and vegetation sampling.

**PROFESSIONAL EXPERIENCE**

2007-date	Ecological Consultant	KS2 Ecological Field Services LLC
2001-2006	Principal Scientist	MWH Inc.
2001-2005	Business Unit Manager	MWH Inc.
1998-2001	Vice President	Shepherd Miller Inc.
1996-1998	Associate Professor	University of Texas at El Paso
1996-1998	Director Indio Mtn Res Sta	University of Texas at El Paso
1992-1996	Senior Research Scientist	Colorado State University
1991-1992	Research Scientist	Colorado State University
1989-1991	Post-doctoral Research Fellow	Colorado State University
1982-1989	Ecological Consultant	Kingsville, Texas
1981-1982	Associate Research Scientist	Texas A&M University
1975-1981	Assistant Professor	Texas A&M University
1973-1975	Graduate Research Assistant	Texas Tech University
1971-1973	Graduate Research Assistant	Colorado State University
1970-1971	Student Research Assistant	Texas Tech University

## HONORS AND AWARDS

2009 Outstanding Alumnus    Department of Natural Resources Management    Texas Tech University  
2011 Distinguished Alumnus    College of Agricultural Sciences and Natural Resources    Texas Tech University

## SUMMARY OF EXPERIENCE

### Research Experience

Principal Investigator or Co-investigator on 36 research projects. These projects have investigated:

- ecological factors controlling plant succession
- simulation modeling of ecological systems
- effects of fluctuations in groundwater and precipitation on vegetation
- multivariate statistical classification of vegetation
- restoration of disturbed lands
- linkages between plant and soil microbial communities
- invasion dynamics of non-native plants
- ecology of shrublands and grasslands.

These projects have resulted in 52 peer-reviewed publications, 67 technical reports, 14 graduate student theses, and 77 presentations at professional meetings.

Created and co-developed the Ecological Dynamics Simulation (EDYS) Model. This computer model has been applied to over 30 locations in the United States, Australia, and Indonesia. Clients include US Army Corps of Engineers, Natural Resource Conservation Service, Los Angeles Department of Water and Power, San Antonio River Authority, US Air Force, CSIRO-Australia, US Forest Service, National Park Service, and several corporations.

### Consulting Experience

Thirty-five years consulting experience in:

- restoration of disturbed lands
- ecological risk assessment
- ecological modelling
- vegetation water use and watershed dynamics
- vegetation sampling and monitoring
- statistical ecology
- land management

Projects were located in:

- Arizona, California, Colorado, Hawaii, Idaho, Illinois, Kansas, Maine, Montana, Nevada, New Mexico, Texas, Utah, Washington, Wyoming
- Queensland, Australia; British Columbia, Canada; Sulawesi and Sumbawa, Indonesia; Chihuahua, Mexico; Cajamarca, Peru.

## Teaching Experience

Fourteen years university faculty experience:

- University of Texas at El Paso 1996-98
- Colorado State University 1990-96
- Texas A&M University-Kingsville 1975-81

Taught a total of 20 courses in:

- ecology
- ecological risk assessment
- statistical ecology
- vegetation sampling
- range management
- soils

Taught 14 shortcourses or workshops:

- groundwater use by vegetation Los Angeles Department of Water and Power
- ecological modeling US Army Corps of Engineers
- vegetation sampling and monitoring National Park Service; Society for Restoration Ecology
- ecological risk assessment Colorado State University
- statistical ecology US EPA
- water-balance cover designs Montana DEQ
- land application of waste water Montana DEQ

## RECENT PROJECT HISTORY

Gonzales County, Texas  
\$ 147,000

Texas State Soil and Water Conservation Board  
June 2011-August 2012

Develop an EDYS ecological model for Gonzales County (1070 square miles), to include native vegetation, agricultural lands, urban areas, and rivers and streams. Conduct simulations to evaluate potential increases in water yields resulting from brush management on selected areas. Other potential uses of the model will be to evaluate impacts of livestock grazing, cultivation, brush management, urbanization, road construction, and recreational activities on watershed dynamics and vegetation change over time.

Vegetation Classification: East Foundation Ranches  
\$ 419,000

East Wildlife Foundation  
June 2011-December 2012

Map the vegetation on approximately 200,000 acres of East Wildlife Foundation ranches in South Texas. Prepare a vegetation classification system for these ranches along with vegetation maps of each ranch.

San Antonio Bay, Texas: Phase 1  
\$ 238,000

San Antonio River Authority and USACE  
May 2011-December 2012

Develop an EDYS ecological model of the San Antonio Bay, including upland, riverine, marsh (freshwater and saltwater), open bay, and barrier island ecosystems. Conduct model simulations of the effects of fluctuations in river flows into the bay on salinity of the bay waters and resulting impacts on marsh vegetation.

Spring Valley, Nevada  
\$ 2.2 million

Southern Nevada Water Authority  
December 2007-October 2011

Assisted in the development of an ecological monitoring plan for effects of groundwater withdrawal in Spring Valley and surrounding valleys in east central Nevada. Direct the development and implementation of ecological monitoring program, including field data collection and statistical analysis and ecological interpretation of these data. Classify and map vegetation of Spring Valley NV. Provide ecological consulting support to Southern Nevada Water Authority and Department of Interior agencies relative to potential impacts of change in depth to groundwater on vegetation. Provide expert witness support for hearings related to impacts of groundwater withdrawal on vegetation .

Owens Valley, California  
\$ 9 million

Los Angeles Department of Water and Power  
November 2000-May 2011

Advise LADWP on ecological linkages between vegetation and groundwater. Manage the ecological tasks associated with this \$ 32 million project to investigate the linkages between groundwater and vegetation and to provide management options for groundwater pumping and environmental protection in the Owens Valley. Owens Valley is a major source of water to the City of Los Angeles. Ecological tasks account for \$ 9 million of the \$ 32 million in the project. These tasks include EDYS modeling of vegetation dynamics and land management scenarios, determination of impacts of groundwater fluctuations on vegetation, revegetation of abandoned agricultural lands, plant and soil microbial community successional dynamics, vegetation sampling, and development of tools used to manage groundwater pumping and environmental protection.

Belowground Plant Architecture  
\$ 206,000

US Army Corps of Engineers  
May 2010-Aug 2012

Collect, summarize, and interpret literature data on root architecture on as many species as possible in North America. Develop spread-sheet tool to organize these data by species, region, and military installation. Develop conceptual model of root architecture as affected by species, soil, climate, and surface disturbance. Develop a mathematical model to predict soil stability based on root architecture and type and intensity of surface disturbance.

Cibolo Creek Watershed  
\$ 360,000

US Army Corps of Engineers  
June 2002-December 2004

Project Manager and lead scientist for this application of the EDYS model. The purpose of this project is to determine best management practices to be applied to a watershed in South Texas for the purposes of increased water recharge into the Edwards Aquifer and reduce flood damage from storm events. MWH is using the EDYS model to simulate 1) changes in vegetation across the watershed under various management options, 2) impacts of these changes to water-use by vegetation, 3) impacts of urbanization on these changes, and 4) potential changes to water yield and water quality. This is a joint project among US Army Corps of Engineers, US Geological Survey, and San Antonio River Authority.

Mineral Hill Mine Closure

TVX Mineral Hill  
September 1999-November 2003

Project Manager and lead scientist on the ecological components of the closure design for the Mineral Hill gold mine in Montana. I developed the water-balance cover design for the tailings pile, applied the EDYS model to

evaluate vegetative development on the cover and impacts of the vegetation on drainage through the tailings over time, provided input in public stakeholder meetings relative to the design, conducted an ecological risk assessment of the impact of drainage water on an associated constructed wetland, developed a vegetation monitoring program for the site, and have conducted vegetation monitoring since construction for compliance.

Control of Non-Native Plants  
\$ 245,000

SERDP (DOD, DOE, EPA)  
January 2000-December 2004

Project Manager and lead scientist on this co-operative project with Colorado State University. The project is to evaluate various methods of control of undesirable non-native plants on military installations. Our role is to apply the EDYS model to evaluate the effectiveness of these techniques over time, using two military installations (Fort Carson, Colorado and Yakima Training Center, Washington) as demonstrations.

Soil Microbial Dynamics  
\$ 196,000

US Army Corps of Engineers  
February 2000-September 2004

Project Manager and lead scientist on this project to evaluate the linkages between plant succession and re-development of the soil microbial community following disturbance. We collected field data (plant and soil) from two sites (Colorado and Washington), conducted multivariate statistical analyses of the data, and are applying the EDYS model to simulate plant succession, soil microbial dynamics, and the linkages between the two. This is a joint project between MWH and researchers and the Waterways Experiment Station, USACE. Results of the project are expected to help develop reclamation techniques for disturbed lands.

Dose Estimation for RDX Contamination

Dalton Gotto Samson & Kilgard  
June 1999-August 2001

Project Manager and lead scientist for a team providing 1) dose estimation for the explosive RDX contaminating foodstuffs at a site in Utah and 2) expert witness testimony during litigation.

Ecological Risk Assessment

Newmont Gold, Inc.  
2001

Manager and lead scientist for the ecological risk assessment of the impacts of a mercury spill at the Yanacocha Mine in Peru. This ERA investigated potential impacts of the mercury spill on terrestrial and aquatic ecosystems, including possible transport through the food chain to humans. Project included site visit, design of sample collection, analysis of results, and recommendations.

Ecological Risk Assessment

Newmont Gold, Inc.  
1999-2000

Project Manager and lead scientist for an ecological risk assessment of the impacts of heavy metals from the Minahasa mine site in Indonesia on marine fish and potential impacts to humans. Our work included a site visit, gathering of bioconcentration and toxicity data from the scientific literature, analysis of existing data from the client, and preparation of a detailed report evaluating potential impacts to fish and to humans. Once the report was finalized, I made a number of trips to Jakarta to meet with the Indonesian environmental agency (BAPEDAL) to discuss our report and discuss ecological risk assessment procedures with BAPEDAL.

Ecological Risk Assessment

Newmont Gold, Inc.  
1998-1999

Project Manager and lead scientist for an ecological risk assessment of the impacts of construction-caused sedimentation on aquatic life in the rivers, estuaries, and bays associated with the Batu Hijau gold mine in Indonesia. The purpose of this ERA was to determine if the increased sedimentation from construction activities posed a significant long-term detrimental affect on aquatic organisms, primarily fish. We traveled to the site, developed a sampling plan, gathered data, analyzed our data and existing site data, and prepared the ERA report. This report was viewed favorably by the international lending organizations.

Ecological Risk Assessment

Lone Tree Mine, Nevada  
1998-1999

Project Manager and lead scientist for an ecological risk assessment of the impacts of surface discharge water from the Lone Tree Mine. Project included field sampling of water quality, aquatic organisms, adjacent terrestrial vegetation, and soil. Bioconcentration factors were calculated for soil-to-plant transfers of COCs. Literature reviews were conducted to develop conceptual models that were tested against field data. Potential hazards to terrestrial plants and animals, including livestock, and aquatic organisms were determined.

Ecological Risk Assessment

Gas Hills, Wyoming  
1998-1999

Project Manager and lead scientist for an ecological risk assessment of the impacts of an accidental discharge from a storage facility at a uranium mine along East Canyon Creek. Soil and vegetation tissue samples were collected and analyzed, along with vegetation composition and productivity data. Potential impacts from heavy metals on vegetation and potential transfer through diets to livestock and humans were calculated.

Ecological Risk Assessment

Midnite Mine, Washington  
1999-2000

Project Manager and lead scientist for an ecological risk assessment of the impacts of heavy metals on the Midnite Mine site and potential transfers to areas adjacent to the mine site. Impacts to both terrestrial and aquatic receptors (plant and animal) were evaluated. Soil, water, plant tissue, and insect tissue samples were collected and analyzed, along with vegetation composition and productivity data. Results were presented to the Washington Department of Health and the US-EPA.

Military Training Impact Evaluations  
\$ 300,000

US Army Corps of Engineers  
1999-2001

Project Manager and lead scientist for applications of the EDYS model to land management decision-making at four military installations (Fort Bliss, Texas, Fort Hood, Texas, Camp Bullis, Texas, and Twentynine Palms, California). We used the EDYS model to simulate impacts of various military training and non-military land use activities on these four installations and evaluated the potential for sustained-use. We collected field vegetation data at Forts Bliss and Hood for validation purposes and analyzed existing ecological data sets for potential use in the model. Simulation results were used to evaluate the potential impacts of various training activities on vegetation, soil erosion, water yield, and rare species habitats.

## PUBLICATIONS

### Peer-Reviewed Journal Articles and Book Chapters

26. Mata-Gonzalez, R., T. McLendon, D.W. Martin, M.J. Trlica, and R.A. Pearce. 2011. Vegetation as affected by groundwater depth and microtopography in a shallow aquifer area of the Great Basin. *Ecohydrology* (In press).
25. McLendon, Terry, Paula J. Hubbard, and David W. Martin. 2008. Partitioning the use of precipitation- and groundwater-derived moisture by vegetation in an arid ecosystem in California. *Journal of Arid Environments* 72:986-1001.
24. Mata-Gonzalez, Ricardo, Rachael G. Hunter, Cade L. Coldren, Terry McLendon, and Mark W. Paschke. 2008. A comparison of modeled and measured impacts of resource manipulations for control of *Bromus tectorum* in sagebrush steppe. *Journal of Arid Environments* 72:836-846.
23. Mata-Gonzalez, Ricardo, Rachael G. Hunter, Cade L. Coldren, Terry McLendon, and Mark W. Paschke. 2007. Modeling plant growth dynamics in sagebrush steppe communities affected by fire. *Journal of Arid Environments* 69:144-157.
22. Mata-Gonzalez, Ricardo, Terry McLendon, and David W. Martin. 2005. The inappropriate use of crop transpiration coefficients (Kc) to estimate evapotranspiration in arid ecosystems: a review. *Arid Land Research and Management* 19:285-295.
21. Naumburg, Elke, Ricardo Mata-Gonzalez, Rachael G. Hunter, Terry McLendon, and David W. Martin. 2005. Phreatophytic vegetation and groundwater fluctuations: A review of current research and application of ecosystem response modeling with an emphasis on Great Basin vegetation. *Environmental Management* 35:726-740.
20. Chiles, Gary W. and Terry McLendon. 2004. Sustainable range management system. *Federal Facilities Environmental Journal* 15:41-49.
19. Meyer, Michael C., Ewald Schnug, Juergen Fleckenstein, Terry McLendon, and David L. Price. 2004. Uptake of Munitions-Derived Depleted Uranium by Three Grasses. *Journal of Plant Nutrition* 27:1415-1429.
18. Childress, W. Michael, Cade L. Coldren, and Terry McLendon. 2002. Applying a complex, general ecosystem model (EDYS) in large-scale land management. *Ecological Modelling* 153:97-108.
17. Stevenson, Bryan A., Terry McLendon, and Edward F. Redente. 2000. Effects of soil fumigation and seeding regimes on secondary succession in a semiarid shrubland. *Arid Soil and Rehabilitation* 14:87-99.
16. Paschke, Mark W., Terry McLendon, and Edward F. Redente. 2000. Nitrogen availability and old-field succession in a shortgrass steppe. *Ecosystems* 3:144-158.
15. Childress, W. Michael and Terry McLendon. 1999. Simulation of multi-scale environmental impacts using the EDYS model. *Hydrological Science and Technology* 15:257-269.
14. Childress, W. Michael, Terry McLendon, and David L. Price. 1999. A decision support system for allocation of training activities on U.S. Army installations. In: Jeffrey M. Klopatek and Robert H. Gardner (eds) *Landscape Ecological Analysis: Issues, Challenges, and Ideas*. Ecological Studies Series. Springer-Verlag. New York. pp 80-108.

13. Meyer, Michael C., Mark W. Paschke, Terry McLendon, and David Price. 1998. Decreases in soil microbial function and functional diversity in response to depleted uranium. *Journal of Environmental Quality* 27:1306-1311.
12. Meyer, Michael C., Terry McLendon, and David Price. 1998. Evidence of depleted uranium-induced hormesis and differential plant response in three grasses. *Journal of Plant Nutrition* 21:2475-2484.
11. Meyer, Michael C. and Terry McLendon. 1997. Phytotoxicity of depleted uranium on three grasses characteristic of different successional stages. *Journal of Environmental Quality* 26:748-752.
10. Redente, Edward F., Terry McLendon, and William Agnew. 1997. The influence of topsoil depth on plant community dynamics of a seeded site in northwestern Colorado. *Arid Soil Research and Rehabilitation* 11:139-149.
9. Klein, Donald A., Terry McLendon, Mark W. Paschke, and Edward F. Redente. 1996. Nitrogen availability and fungal-bacterial responses in successional semiarid steppe soils. *Arid Soil Research and Rehabilitation* 10:321-332.
8. Klein, Donald A., Terry McLendon, Mark W. Paschke, and Edward F. Redente. 1995. Saprophytic fungal-bacterial biomass variations in successional communities of a semiarid steppe ecosystem. *Biology and Fertility of Soils* 19:253-256.
7. Garza, Andres, Jr., Terry McLendon, and D. Lynn Drawe. 1994. Herbage yield, protein content, and carbohydrate reserves of gulf cordgrass (*Spartina spartinae*). *Journal of Range Management* 47:16-21.
6. McLendon, Terry and Edward F. Redente. 1992. Effects of nitrogen limitation on species replacement dynamics during early secondary succession on a semiarid sagebrush site. *Oecologia* 91:312-317.
5. Redente, Edward F., Joan E. Friedlander, and Terry McLendon. 1992. Response of early and late semiarid successional species to nitrogen and phosphorus gradients. *Plant and Soil* 140:127-135.
4. McLendon, Terry. 1991. Preliminary description of the vegetation of South Texas exclusive of coastal saline zones. *Texas Journal of Science* 43:13-32.
3. McLendon, Terry and Edward F. Redente. 1991. Nitrogen and phosphorus effects on secondary succession dynamics on a semiarid sagebrush site. *Ecology* 72:2016-2024.
2. McLendon, Terry and Edward F. Redente. 1990. Succession patterns following soil disturbance in a sagebrush steppe community. *Oecologia* 85:293-300.
1. McLendon, Terry and Bill E. Dahl. 1983. A method for mapping vegetation utilizing multivariate statistical techniques. *Journal of Range Management* 36:457-462.

#### **Peer-Reviewed Proceedings and Special Publications**

26. McLendon, Terry and Cade L. Coldren. 2011. Effects of plant succession on the functioning of engineered covers and modeling of long-term successional impacts using the EDYS ecological simulation model. *Proceedings of the Workshop on Engineered Barrier Performance Related to Low-Level Radioactive Waste, Decommissioning, and Uranium Mill Tailings Facilities*. US Nuclear Regulatory Commission. Rockville, MD. 3-5 August 2010.



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25. McLendon, Terry, Cade L. Coldren, and David L. Price. 2009. Comparison of results from the EDYS and EDYS-L ecological simulation models as applied to vegetation and hydrological dynamics on the Honey Creek Watershed, Texas. Technical Report ERDC TN-SWWRP-09-7. US Army Corps of Engineers. 19 p.
  24. Mata-Gonzalez, Ricardo, Terry McLendon, and David W. Martin. 2006. Response to “Comment on the inappropriate use of crop transpiration coefficients (Kc) to estimate evapotranspiration in arid ecosystems” by Or et al. (this issue). *Arid Land Research and Management* 20:179-181.
  23. Childress, W. Michael, Cade L. Coldren, Terry McLendon, and Nicholas Pansic. 2005. Simulation modeling of vegetation impacts on barrier island stability during hurricane events using the ECOS<sup>2</sup>T ecological model. Proceedings of the 2005 Solutions to Coastal Disasters Conference. American Society of Civil Engineers. Charleston, South Carolina. pp 443-452.
  22. McLendon, Terry, W. Michael Childress, Jeffrey S. Fehmi, and Rhys M. Evans. 2003. Assessment and application of the LCTA protocol at MAGTFTC, Twentynine Palms, California. Technical Report ERDC/CERL TR-03-24. US Army Corps of Engineers. Washington DC. 21 p.
  21. Reiner, Dafna and Terry McLendon. 2002. Assessment of exotic plant species of Acadia National Park. Technical Report NPS/BSO-RNR/NRTR/2002-5. National Park Service. Boston Support Office. Boston, Massachusetts. 102 p.
  20. McLendon, Terry, W. Michael Childress, Cade L. Coldren, Rick Frechette, and Frank Bergstrom. 2002. Evaluation of alternative designs for a water-balance cover over tailings at the Mineral Hill Mine, Montana, using the EDYS model. *Tailings and Mine Waste* 02. Proceedings of the Ninth International Conference on Tailings and Mine Waste. Balkema, Rotterdam. pp 505-518.
  19. McLendon, Terry, W. Michael Childress, Cade Coldren, and David L. Price. 2001. EDYS experimental and validation results for grassland communities. US Army Corps of Engineers ERDC/CERL TR-01-54. 88 p.
  18. Childress, W. Michael, David L. Price, Cade L. Coldren, and Terry McLendon. 1999. A functional description of the Ecological Dynamics Simulation (EDYS) model, with applications for Army and other Federal land managers. US Army Corps of Engineers CERL Technical Report 99/55. 68 p.
  17. McLendon, Terry and W. Michael Childress. 1999. Applications of the EDYS model in ecological risk assessment and reclamation. Proceedings of the 24<sup>th</sup> Annual Environmental Workshop. Minerals Council of Australia. Townsville, Queensland. pp 126-134.
  16. McLendon, T., W.M. Childress, and D.L. Price. 1999. Application of the EDYS model in training area management at the US Air Force Academy. Proceedings of the VI International Rangeland Conference. Townsville, Queensland. 2:873-875.
  15. McLendon, Terry, W. Michael Childress, David L. Price, and Terry Atwood. 1999. Ecological Dynamics Simulation Model (EDYS). Proceedings of the Sixth National Watershed Conference. National Watershed Coalition. Burke, Virginia. pp 231-241.
  14. McLendon, Terry, W. Michael Childress, David Price, and Alan B. Anderson. 1998. A successional dynamics simulation model as a factor for determining military training land carrying capacity. US Army Corps of Engineers CERL Technical Report 98/90. 18 p.
  13. McLendon, Terry, Jeffrey Coleman, Thomas A. Shepherd, and Robert E. Nelson. 1997. The inclusion of biointrusion considerations in the design of the reclamation cover for the DMC tailings impoundments. *Tailings and Mine Waste Conference 97 Proceedings*. Balkema. Rotterdam. pp 267-281.

12. Price, David L., Alan B. Anderson, Patrick J. Guertin, Terry McLendon, and W. Michael Childress. 1997. The US Army's land-based carrying capacity. US Army Corps of Engineers CERL Technical Report 97/142. 15 p.
11. McLendon, Terry, W. Michael Childress, and David L. Price. 1996. Use of land condition trend analysis (LCTA) data to develop a community dynamics simulation model as a factor for determination of training carrying capacity of military lands. Proceedings of the Fifth Annual ITAM/LRAM Workshop. US Army Environmental Center. Aberdeen Proving Grounds, Maryland. pp 44-54
10. Hiebert, Ron, Ann Gibbs, Terry McLendon, Noel Pavlovic, John Randall, Janith Taylor, and Steve Walasewicz. 1996. Purple loosestrife management program review: Acadia National Park, Maine. Natural Resources Technical Report NPS/NESO-RNR/NRTR/97-02. National Park Service. 48 p.
9. McLendon, Terry. 1995. Vegetation Sampling and Monitoring Shortcourse Manual. National Park Service. Denver Service Center. Denver, Colorado. 171 p.
8. McLendon, Terry, Mark W. Paschke, and Edward F. Redente. 1995. Vegetation restoration research, Rocky Mountain National Park: Patterns of secondary succession following anthropic disturbances. Proceedings of the High Altitude Revegetation Workshop No. 11. Colorado State University. Fort Collins. pp 27-40.
7. McLendon, Terry. 1994. Description of the mesquite-granjeno-acacia shrubland. In: Thomas N. Shiflet (ed.) Rangeland Cover Types of the United States. Society for Range Management. Denver, Colorado. p. 104.
6. McLendon, Terry and Edward F. Redente. 1994. Role of nitrogen availability in the transition from annual-dominated to perennial-dominated seral communities. Symposium on Ecology, Management, and Restoration of Intermountain Annual Rangelands. Technical Report INT-GTR 313 US Forest Service. Ogden, Utah. pp 352-362.
5. McLendon, Terry and Edward F. Redente. 1994. Vegetation Restoration Management Plan. Rocky Mountain National Park. Department of Rangeland Ecosystem Science. Colorado State University. Fort Collins, Colorado. 62 p.
4. McLendon, Terry. 1979. Ecotypic differentiation in mesquite (*Prosopis glandulosa*) along a latitudinal gradient. Ph.D. Dissertation. Texas Tech University. Lubbock. 175 p.
3. Salinas, Manuel, Robert Brown, and Terry McLendon. 1976. Statement concerning the National Agricultural Research Policy Act of 1976. Hearings before the Committee on Agriculture. House of Representatives. Ninety-fourth Congress. Second Session. On H.R. 11743. pp 79-85.
2. McLendon, Terry. 1973. Gross energy distribution and vegetation pattern characteristics for a shrub community in Arizona. M.S. Thesis. Colorado State University. Fort Collins. 53 p.
1. Bonham, Charles D., Gary Gnauck, and Terry McLendon. 1972. Ecological inventory information storage-retrieval system for The Research Ranch, Elgin, Arizona. Science Series No. 14. Range Science Department. Colorado State University. Fort Collins. 93 p.

### Technical Reports and Special Publications

67. McLendon, Terry. 2010. Update of SCP equations to include 2010 data. Report submitted to Los Angeles Department of Water and Power. MWH Inc. Arcadia, California. 133 p.

66. McLendon, Terry, Julie P. Rieder, Cindy Hindes, Kathie D. Stanley, Kellie S. Stanley, and Milton J. Trlica. 2010. Classification and mapping of the vegetation of selected valley-floor areas in Spring Valley, Nevada. Draft report prepared for Southern Nevada Water Authority. KS2 Ecological. Anton, Texas. 93 p.
65. McLendon, Terry, Ricardo Mata-Gonzalez, and David L. Price. 2010. Effect of soil microbial inoculation on revegetation success and redevelopment of soil microbial communities in the Owens Valley. Report prepared for Los Angeles Department of Water and Power. MWH Inc. Fort Collins, Colorado. 44 p.
64. McLendon, Terry. 2009. Estimation of baseline cover values at control sites. Report prepared for Los Angeles Department of Water and Power. MWH Inc. Fort Collins, Colorado. 39 p.
63. McLendon, Terry and David Wester. 2009. Statistical methods for analysis of ecological data collected as part of the Spring Valley Biological Monitoring Plan. Draft report prepared for the Southern Nevada Water Authority. KS2 Ecological. Anton, Texas. 51 p.
62. AverillMurray, G. Baker, A.L., N. Beecher, C. Crookshanks, K. Dow, G. Low, Z. Marshall, T. McLendon, E. Oborny, P. Podborny, C. Tomlinson, T. Strekal, and K. Wilson. 2009. Spring Valley Biological Monitoring Plan. Southern Nevada Water Authority. Las Vegas, Nevada. 129 p. + Appendices.
61. McLendon, Terry. 2009. Revision of SCP Tool for Big Pine and Taboose-Aberdeen permanent monitoring sites to include 2008 data. Report prepared for Los Angeles Department of Water and Power. MWH Inc., Fort Collins, Colorado. 65 p.
60. McLendon, Terry. 2008. Collection of soil data to support future cooperative management studies in the Big Pine and Taboose-Aberdeen wellfields. Report prepared for Los Angeles Department of Water and Power. MWH Inc., Fort Collins. Colorado. 47 p.
59. McLendon, Terry. 2008. Report on the Owens Valley plant survivability study. Report prepared for Los Angeles Department of Water and Power. MWH Inc., Fort Collins, Colorado. 44 p.
58. McLendon, Terry. 2008. Differential use of precipitation- and groundwater-derived water by vegetation: a review of the literature. Report prepared for Los Angeles Department of Water and Power. MWH Inc., Fort Collins, Colorado. 61 p.
57. McLendon, Terry and Cade L. Coldren. 2007. Comparison of results from the EDYS and EDYS-L ecological simulation models as applied to vegetation and hydrological dynamics on the Honey Creek Watershed, Texas. Report prepared for the US Army Engineer Research and Development Center-Environmental Laboratory, Vicksburg, Mississippi. Raven Enterprises LLC. Fort Collins, Colorado. 24 p.
56. McLendon, Terry. 2006. Characterization of soil microbial communities. Report prepared for Los Angeles Department of Water and Power. MWH Inc. Fort Collins, Colorado. 44 p.
55. McLendon, Terry. 2006. Evaluation of successional dynamics. Report prepared for Los Angeles Department of Water and Power. MWH Inc. Fort Collins, Colorado. 92 p.
54. McLendon, Terry. 2006. Review of depth-to-water and vegetation relationships. Report prepared for Los Angeles Department of Water and Power. MWH Inc. Fort Collins, Colorado. 131 p.
53. McLendon, Terry and Cindy R. Pappas. 2006. Evaluation of Miami Unit #2 Tailings Facility Cover using the EDYS model. Pinal Creek WQARF Site Source Remediation Plan (SRP). Report prepared for BHP Copper. Globe, Arizona. MWH Inc. Fort Collins, Colorado. 82 p.

52. McLendon, Terry. 2005. Ecological succession and its role in vegetation change. Report prepared for Los Angeles Department of Water and Power. MWH Inc. Fort Collins, Colorado. 28 p.
51. McLendon, Terry. 2005. Effect of depth to water on vegetation change in the Owens Valley. Report prepared for Los Angeles Department of Water and Power. MWH Inc. Fort Collins, Colorado. 38 p.
50. McLendon, Terry and Cade L. Coldren. 2005. Validation of the EDYS ecological model using gauged data from the Honey Creek Research Watershed, Texas. Report prepared for US Army Engineer Research and Development Center – Environmental Laboratory. Vicksburg, Mississippi. MWH Inc., Fort Collins, Colorado. 21 p.
49. McLendon, Terry. 2005. Monitoring vegetation change in the Owens Valley. A review of concepts and principles. Report prepared for Los Angeles Department of Water and Power. MWH Inc. Fort Collins, Colorado. 32 p.
48. Hunter, Rachael G., Ricardo Mata-Gonzalez, and Terry McLendon. 2004. Application of the EDYS model to evaluate control methods for invasive plants at Yakima Training Center, Washington. MWH Americas. Fort Collins, Colorado. 165 p.
47. Hunter, Rachael G., Ricardo Mata-Gonzalez, and Terry McLendon. 2004. Application of the EDYS model to evaluate control methods for invasive plants at Fort Carson, Colorado. MWH Global. Fort Collins, Colorado. 182 p.
46. Price David L., Terry McLendon, and Cade L. Coldren. 2004. Application of an ecological model for the Cibolo Creek Watershed. Water Quality Technical Notes Collection. ERDC WQTN-CS-04. U.S. Army Engineer Research and Development Center. Vicksburg, Mississippi.
45. McLendon, Terry. 2003. Monitoring of revegetated areas at TVX Mineral Hill Mine: second-year results. Prepared for Ameriknauk, Inc. MWH Inc. Fort Collins, Colorado. 30 p.
44. McLendon, Terry. 2003. Monitoring of revegetated areas at TVX Mineral Hill Mine: first-year results. Prepared for Ameriknauk, Inc. MWH Inc. Fort Collins, Colorado. 25 p.
43. Coldren, Cade L., Terry McLendon, and W. Michael Childress. 2002. Linkage of the EDYS and TUDM models to a training area landscape at Fort Hood, Texas. Technical Report SMI-ES-029. Shepherd Miller Inc., Fort Collins, Colorado. 33 p.
42. McLendon, Terry, Cade L. Coldren, and W. Michael Childress. 2001. Application of the EDYS model to a training area landscape at Camps Bullis and Stanley, Texas. Technical Report SMI-ES-028. Shepherd Miller Inc., Fort Collins, Colorado. 93 p.
41. McLendon, Terry, Cade L. Coldren, and W. Michael Childress. 2001. Application of the EDYS model to a training area landscape at 29 Palms MCAGCC, California. Technical Report SMI-ES-026. Shepherd Miller Inc., Fort Collins, Colorado. 89 p.
40. McLendon, Terry. 2001. Linkages between plant succession and soil microbial community development: initial results. Technical Report SMI-ES-025. Shepherd Miller Inc., Fort Collins, Colorado. 38 p.
39. Coldren, Cade L., Terry McLendon, and W. Michael Childress. 2001. Application of the EDYS model to a training area landscape at Fort Bliss, Texas. Technical Report SMI-ES-024. Shepherd Miller Inc., Fort Collins, Colorado. 82 p.

38. McLendon, Terry, Cade L. Coldren, and W. Michael Childress. 2001. Application of the EDYS model to a training area landscape at Fort Hood, Texas. Technical Report SMI-ES-023. Shepherd Miller Inc. Fort Collins, Colorado. 99 p.
37. McLendon, Terry. 2001. Evaluation of potential salt buildup in the wet meadow, TVX Mineral Hill. Report prepared for TVX Mineral Hill Mine. Shepherd Miller Inc. Fort Collins, Colorado. 27 p.
36. McLendon, Terry and Cade L. Coldren. 2001. Revegetation test plot results and validation of EDYS simulations, TVX Mineral Hill Mine closure. Final Report. Prepared for TVX Mineral Hill Mine. Shepherd Miller Inc., Fort Collins, Colorado. 66 p.
35. McLendon, Terry, W. Michael Childress, and Michael C. Meyer. 2001. Minahasa marine ecological risk assessment. Report prepared for P.T. Newmont Minahasa Raya. Shepherd Miller Inc. Fort Collins, Colorado. 327 p.
34. McLendon, Terry, Cade L. Coldren, and W. Michael Childress. 2000. Evaluation of the effects of vegetation changes on water dynamics of the Clover Creek watershed, Utah, using the EDYS model. Report prepared for the Natural Resource Conservation Service and the US Army Corps of Engineers. Technical Report SMI-ES-020. Shepherd Miller Inc. Fort Collins, Colorado. 56 p.
33. Meyer, Michael C., W. Michael Childress, and Terry McLendon- 2000. Batu Hijau Ecological Risk Assessment. Parts I and II. Revised. Report prepared for P.T. Newmont Nusa Tenggara. Shepherd Miller Inc. Fort Collins, Colorado. 240 p.
32. McLendon, Terry, Michael C. Meyer, and Sam L. Bamberg. 2000. Screening-level ecological risk assessment of pit lakes at the Mesquite Mine, Imperial County, California; Report prepared for Imperial County Planning Department. Shepherd Miller Inc. Fort Collins, Colorado. 63 p.
31. McLendon, Terry, Cade L. Coldren, and W. Michael Childress. 2000. EDYS evaluation of effects of precipitation fluctuations, fire, and elk grazing on the water dynamics and vegetation stability of the cover design for the Tailings Storage Facility, TVX Mineral Hill. Report prepared for TVX Mineral Hill. Shepherd Miller Inc. Fort Collins, Colorado. 35 p.
30. Meyer, Michael C. and Terry McLendon. 2000. Ecotoxicological assessment of fluoride in the Humboldt River mixing zone for the Lone Tree Mine. Report prepared for Dorscy and Whitney. Shepherd Miller Inc. Fort Collins, Colorado. 40 p.
29. Meyer, Michael C. and Terry McLendon. 2000. Ecotoxicological assessment of molybdenum in the Humboldt River mixing zone for the Lone Tree Mine. Report prepared for Dorscy and Whitney. Shepherd Miller Inc. Fort Collins, Colorado. 46 p.
28. Meyer, Michael C., Jill L. Richards, Terry McLendon, and W. Michael Childress. 2000. Advanced screening-level ecological risk assessment for the Midnite Mine, Ford, Washington. Report prepared for Dawn Mining Company. Shepherd Miller Inc. Fort Collins, Colorado. 597 p.
27. McLendon, Terry, W. Michael Childress, and Cade L. Coldren. 2000. Two-year validation results for grassland communities at Fort Bliss, Texas and Fort Hood, Texas. Technical Report SMI-ES-019. Shepherd Miller Inc. Fort Collins, Colorado. 79 p.
26. McLendon, Terry and W. Michael Childress. 2000. EDYS evaluation of vegetation and water dynamics on the proposed cover design for the Tailings Storage Facility, TVX Mineral Hill. Report prepared for TVX Mineral Hill Mine. Shepherd Miller Inc. Fort Collins, Colorado. 36 p.

25. McLendon, Terry, W. Michael Childress, and Cade Coldren. 1999. First-year validation results for a little bluestem grassland community, Fort Hood, Texas. Technical Report SMI-ES-018. Shepherd Miller Inc. Fort Collins, Colorado. 27 p.
24. Reiner, Dafna and Terry McLendon. 1999. Assessment of exotic plant species of Acadia National Park. Acadia National Park. Bar Harbor, Maine. 108 p.
23. McLendon, Terry and Michael C. Meyer. 1999. Human health and ecological risk assessment: East Canyon Creek streambed, Gas Hills, Wyoming. Report prepared for Umetco Minerals Corporation. Shepherd Miller Inc. Fort Collins, Colorado. 100 p.
22. McLendon, Terry, W. Michael Childress, and Cade Coldren. 1999. EDYS-4 Preliminary Simulation Results (95% Completion) for Jack's Valley Landscape Air Force Academy. Technical Report SMI-ES-014. Shepherd Miller, Inc. Fort Collins, Colorado. 21 p.
21. Childress, W. Michael, David L. Price, Cade L. Coldren, and Terry McLendon. 1999. A Functional Description of the Ecological Dynamics Simulation (EDYS) Model, with Applications for Army and Other Federal Land Managers. Technical Report SMI-ES-009 and USACERL Technical Report 99/Draft 1999 Shepherd Miller, Inc. Fort Collins, Colorado, and US Army Corps of Engineers Research Laboratory. Champaign, Illinois. 42 p.
20. McLendon, Terry, W. Michael Childress, and Cade Coldren. 1999. First-year Validation Results for a Black Grama Desert Grassland Community Fort Bliss, Texas. Technical Report SMI-ES-008. Shepherd Miller, Inc. Fort Collins, Colorado. 28 p.
19. McLendon, Terry, W. Michael Childress, and David L. Price. 1998. Strategies for Land Management. Technical Report SMI-ES-005. Shepherd Miller, Inc. Fort Collins, Colorado. 11 p.
18. McLendon, Terry, W. Michael Childress, and Cade L. Coldren. 1998. Preliminary simulation results for Jacks Valley Landscapes, U.S. Air Force Academy. Technical Report SMI-ES-003. Shepherd Miller, Inc. Fort Collins, Colorado. 21 p.
17. McLendon, Terry and W. Michael Childress. 1998. EDYS-2 simulation results for Fort Hood little bluestem ecotone. Technical Report SMI-ES-001. Shepherd Miller, Inc. Fort Collins, Colorado. 19 p.
16. Price, David L., Alan B. Anderson, Patrick J. Guertin, Terry McLendon, and W. Michael Childress. 1997. The U.S. Army's land-based carrying capacity. CERL Technical Note 97/142. U.S. Army Construction Engineering Research Laboratories. Champaign, Illinois. 15 p.
15. Hiebert, Ron, Ann Gribbs. Terry McLendon, Noel Pavlovic, John Randall, Janith Taylor, and Steve Walasewicz. 1997. Purple .loosestrife management program review: Acadia National Park, Maine. August 6-9, 1996. Edited by J.H. Connery. U.S. Department of Interior, National Park Service, Natural Resources Technical Report NPS/NESO-RNR/NRTR/97-02. Boston, MA. 43 p.
14. McLendon, Terry. 1997. Factors controlling the distribution of Canada thistle (Cirsium arvense) in montane ecosystems: Rocky Mountain National Park, Colorado. Final Report. Rocky Mountain National Park. Estes Park, Colorado. 35 p.
13. McLendon, Terry and Edward F. Redente. 1997. Revegetation Manual for the Environmental Restoration Contractor. BHI-00971 Bechtel Hanford, Inc. U.S. Department of Energy Office of Scientific and Technical Information. Oak Ridge, Tennessee. 147 p.

12. Redente, Edward F., Michael C. Meyer, Matthew J. Oberle, and Terry McLendon. 1996. Screening-level ecological risk assessment for the Midnite Mine. Dawn Mining Company. Ford, Washington. 294 p.
11. Rutledge, Chris R. and Terry McLendon. 1996. An assessment of exotic plant species of Rocky Mountain National Park: An evaluation of the potential impacts of known exotic plants and summary of management options for species of concern. Rocky Mountain National Park. Estes Park, CO. 97 p.
10. McLendon, Terry. 1995. Vegetation Sampling and Monitoring Shortcourse Manual. National Park Service. Denver Service Center. Denver, CO, 171 p.
9. McLendon, Terry. 1995. Revegetated reclamation system evaluation, Sherwood Project, Stevens County, Washington. Final Report. Shepherd-Miller, Inc. Fort Collins. Colorado. 83 p.
8. McLendon, Terry and W. Michael Childress. 1995. Development of conceptual natural resource carrying capacity models for military installations. Final Report. U.S. Army Corps of Engineers Research Laboratory. Champaign, Illinois. 79 p.
7. Alldredge, AW., T.B. Kirchner, T. McLendon, and E.F. Redente. 1995. Screening-level model for ecological risk assessment at EF-site. Los Alamos National Laboratory. Los Alamos, New Mexico- 32 p
6. McLendon, Terry and Edward F. Redente. 1994. Vegetation restoration management plan: Rocky Mountain National Park. Final Report. Rocky Mountain National Park. Estes Park. Colorado. 62 p.
5. McLendon, Terry and W. Michael Childress. 1994. Analysis and interpretation of LCTA database, development of standardized statistical procedures, and development of carrying capacity conceptual model: Fort Hood, Texas. Final Report. U.S. Army Corps of Engineers Research Laboratory. Champaign, Illinois. 213 p.
4. Whicker, F.W., AW. Alldredge, W.H. Clements, T. McLendon, and E.P. Redente. 1991. Environmental Evaluation Methodologies For Individual Hazardous Substance Sites, Rocky Flats Nuclear Weapons Plant. Golden. Colorado. Colorado State University- 49 p.
3. McLendon, Terry and Charles A. DeYoung. 1976. Report on the Effects of Possible Salt Water Seepage on Vegetation Surrounding the Barney M. Davis Cooling Lake. College of Agriculture. Texas A&I University. Kingsville. 28 p.
2. McLendon, Terry. 1973. Gross energy distribution and vegetation pattern characteristics for a shrub community in Arizona. M.S. Thesis. Colorado State University. Fort Collins. 53 p.
1. Gnauck, Gary and Terry McLendon. 1972. Vegetation mapping by photographic interpretation. In: Charles D. Bonham. Ecological Inventory Information Storage-Retrieval System for The Research Ranch, Elgin, Arizona. Range Science Series No. 14. Colorado State University. Fort Collins. pp. 19-52.

### **Shortcourses and Workshops Taught**

14. McLendon, Terry. 2009. Knowledge transfer and training workshop: Vegetation change, spatial heterogeneity, vegetation water use, SCP Tool, and the EDYS model. Los Angeles Department of Water and Power. Bishop, California. 9-11 March.
13. McLendon, Terry. 2008. Knowledge transfer and training workshops: Differential use of precipitation- and groundwater-derived water by vegetation. Los Angeles Department of Water and Power. Bishop, California. 24-26 June and 23-25 September.

12. McLendon, Terry and Cade L. Coldren. 2005. Application of the EDYS ecological model as a watershed management tool in the Edwards Plateau. Bexar Regional Watershed Management Group. San Antonio, Texas. 8-9 September.
11. McLendon, Terry, W. Michael Childress, and Cade L. Coldren. 2001. The Ecological Dynamics Simulation (EDYS) Model: A Two-day Workshop. Shepherd Miller Inc. and US Army Corps of Engineers. Fort Collins, Colorado. 13-14 March.
10. Van Zyl, Dirk and Terry McLendon. 2000. Reclamation Covers and Caps. 3-day Shortcourse. Montana Department of Environmental Quality and Montana Tech-University of Montana. Helena, Montana. 27-29 June.
9. McLendon, Terry. 1999. Vegetation Sampling and Monitoring Shortcourse. 2-day Shortcourse. Central Rockies Chapter of the Society of Ecological Restoration. Louisville, Colorado. 21-22 April.
8. McLendon, Terry. 1997. Vegetation Sampling and Monitoring: A 4-day Shortcourse. National Park Service. El Paso, Texas and Big Bend National Park. 19-22 May.
7. McLendon, Terry. 1996. Vegetation Sampling and Monitoring: A 3-day Shortcourse. National Park Service. Lake Mead National Recreation Area, Nevada. 14-16 May.
6. McLendon, Terry. 1995. Vegetation Sampling and Monitoring: A 3-day Shortcourse. National Park Service. Rocky Mountain National Park, Colorado. 16-18 May.
5. McLendon, Terry. 1995. Statistics and Ecology: A 2-day Shortcourse. Region 8. U.S. Environmental Protection Agency. Denver, Colorado. 18-19 April.
4. McLendon, Terry, F. Ward Whicker, A. William Alldredge, Will H. Clements, and Tom B. Kirchner. 1994. Ecological Risk Assessment and Management. Concepts and Applications. A 2-day Shortcourse. Region 8 US Environmental Protection Agency. Denver, Colorado. 29 November and 1 December.
3. Alldredge, A.W., T.E. Hakonson, T.B. Kirchner, T. McLendon, E.F. Redente, and F.W. Whicker. 1995. Ecological Risk Assessment and Management: Concepts and Applications. A 5-day Shortcourse. Center for Ecological Risk Assessment and Management. Colorado State University. Fort Collins, Colorado. 12-16 June.
2. Alldredge, A.W., T.E. Hakonson, T.B. Kirchner, T. McLendon, E.F. Redente, and F.W. Whicker. 1994. Ecological Risk Assessment and Management: Concepts and Applications. A 5-day Shortcourse. Center for Ecological Risk Assessment and Management. Colorado State University. Fort Collins, Colorado. 13-17 June.
1. McLendon, Terry and Edward F. Redente. 1992. Vegetation Restoration Workshop. Rocky Mountain National Park. National Park Service and Colorado State University. Fort Collins, CO. 14-15 January.

### **Professional Presentations**

#### Invited Presentations

26. McLendon, Terry. 2010. Nitrogen and phosphorus effects on succession in a sagebrush ecosystem over 25 years. Symposium on the Restoration of Disturbed Sagebrush Steppe. Colorado State University. Fort Collins. 8-9 September.



25. McLendon, Terry. 2010. Belowground components of successional plant and soil microbial communities in a sagebrush ecosystem. Symposium on the Restoration of Disturbed Sagebrush Steppe. Colorado State University. Fort Collins. 8-9 September.
24. McLendon, Terry. 2010. Effects of plant succession on the functioning of engineered covers and modeling of long-term successional impacts using the EDYS ecological simulation model. Workshop on Engineered Barrier Performance Related to Low-Level Radioactive Waste, Decommissioning, and Uranium Mill Tailings Facilities. US Nuclear Regulatory Commission. Rockville, Maryland. 3-5 August.
23. Martin, David W. and Terry McLendon. 2008. Climate change effects on restoration processes and endpoints in the Mono Basin. Conference on Climate, Ecosystems, and Resources in Eastern California. Bishop, California. 5-8 November.
22. McLendon, Terry and Cade L. Coldren. 2007. Uses of the EDYS ecological model as a grazing and range management tool. Annual Meeting of the California-Pacific and Nevada Sections of the Society for Range Management. Bishop, California. 2 November.
21. McLendon, Terry, Cade L. Coldren, and W. Michael Childress. 2005. EDYS: A mechanistic approach to small-scale to regional integrated ecological modelling. Ecological Modelling Seminar Series. US Army Corps of Engineers. Waterways Experiment Station, Vicksburg, Mississippi. 14 December.
20. McLendon, Terry and David Price. 2004. EDYS: A mechanistic ecological simulation model. Interagency Distributed Watershed Water Quality Modeling Group Workshop. USDA-ARS-GPSR Natural Resources Research Center. Fort Collins, Colorado. 15-16 January.
19. McLendon, Terry. 2001. Design and evaluation of water balance covers for mine waste sites using the EDYS model. Mine Design, Operations, and Closure Conference 2001. Whitefish, Montana. 8-12 April.
18. McLendon, Terry. 2000. Evaluation of the effects of vegetation changes on water balances in forested ecosystems: concepts and simulation using the EDYS model. Restoration and Reclamation of Small Abandoned Mines. U.S. Forest Service. Wallace, Idaho. 12 September.
17. McLendon, Terry. 2000. Long-term containment and water management of reclaimed mine sites using water balance caps and the EDYS model. Mine Design, Operations, and Closure Conference 2000. Polston, Montana. 18 April.
16. McLendon, Terry. 2000. Estimation of impact of woody plant invasion on water yield of southwestern watersheds using the EDYS model. Annual Meeting of the New Mexico Water Coalition. Albuquerque, New Mexico. 5 April.
15. McLendon, Terry, Michael Childress, Terry Atwood, and David Price. 2000. Presentation of results of the Ecological Dynamics (EDYS) model run on the Clover Creek watershed area in Rush Valley, Tooele County, Utah. Clover Creek CRMP Steering Committee. USDA Natural Resources Conservation Service. Salt Lake City, Utah. 17 February.
14. McLendon, Terry. 1999. Use of the EDYS model in ecological and land management decision making. 1999 Sierra Club Rocky Mountain Chapter Meeting. Glacier View Ranch, Colorado. 18 September.
13. McLendon, Terry. 1998. The Ecological Dynamics Simulation (EDYS) Model. Applications for natural resources and grazing management. Rangeland Committee. 54<sup>th</sup> Annual Meeting. Colorado Association of Soil Conservation Districts (CASCD). Estes Park, Colorado. 19 November.

12. McLendon, Terry. 1998. The Ecological Dynamics Simulation (EDYS) Model as a land management and rehabilitation tool. Keynote Address. Technical Advisory Annual Meeting. Upper Colorado Environmental Plant Center. Meeker, Colorado. 20 August.
11. McLendon, Terry and W. Michael Childress. 1998. Ecological Dynamics Simulation (EDYS) Model Demonstration. Utah State University. Logan, Utah. 23-23 July.
10. McLendon, Terry. 1998. Use of the EDYS ecological dynamics simulation model in revegetation and ecological restoration planning. Thirteenth High Altitude Revegetation Workshop. Fort Collins, Colorado. 4 March.
9. McLendon, Terry and W. Michael Childress. 1997. Applications of the Ecological Dynamics Simulation (EDYS) Model to natural resource management scenarios. Grazing Lands Technology Institute. Natural Resources Conservation Service. USDA. Fort Worth, Texas. 27 February.
8. McLendon, Terry. 1996. A revegetation monitoring proposal using an ecological dynamics simulation model. Federal Native Plant Conservation Committee. Washington, DC. 13 November.
7. McLendon, Terry. 1996. Multivariate statistical and simulation modeling approaches to the analysis of vegetation dynamics. Division of Biology Seminar Series. Kansas State University. Manhattan, Kansas. 28 May.
6. McLendon, Terry. 1995. Plant succession, bioinvasion, and bioaccumulation: Integrity of engineered clay barriers. Guest Speaker Series. Department of Chemical and Nuclear Engineering. University of New Mexico. Albuquerque, New Mexico. 21 March.
5. McLendon, Terry and Edward F. Redente. 1994. Ecology and statistics: Three case studies in Colorado. Invited Paper. 1994 Spring Meeting of the Colorado-Wyoming Chapter of the American Statistical Association. Boulder, Colorado. 6 May.
4. McLendon, Terry, Mark W. Paschke, and Edward F. Redente. 1994. Vegetation restoration research, Rocky Mountain National Park: Patterns of secondary succession following anthropic disturbance. Invited Paper. Eleventh High Altitude Revegetation Workshop. Colorado State University. Fort Collins, Colorado. 16 March.
3. McLendon, Terry. 1993. Dynamics of early secondary succession: Factors controlling the replacement of annuals by herbaceous perennials. Invited Paper. 1993 Annual Conference of the Colorado Weed Management Association. Glenwood, Colorado. 7-9 December.
2. McLendon, T., T.E. Hakonson, A.W. Alldredge, T.B. Kirchner, and E.F. Redente. 1993. Development of ecological risk assessment procedures for Los Alamos National Laboratory, New Mexico. Invited Presentation. 5<sup>th</sup> Meeting of the Risk-Based Standards Working Group, U.S. Department of Energy. Washington, DC. 5-8 October.
1. Salinas, Manuel, Robert Brown, and Terry McLendon. 1976. Statement concerning the National Agricultural Research Policy Act of 1976. Hearings before the Committee on Agriculture. House of Representatives. Ninety-fourth Congress. Second Session. On H.R. 11743. pp. 79-85.

#### Volunteer Presentations

51. Mata-Gonzalez, Ricardo, Terry McLendon, David W. Martin, M.J. Trlica, and Robert A. Pearce. 2009. Exotic weeds and plant species diversity as affected by groundwater depth in the Great Basin. 62nd Annual Meeting of the Society for Range Management. Albuquerque, New Mexico. 8-13 February.

50. Martin, David W., Terry McLendon, Cade Coldren, Mike Childress, and Joe Trlica. 2009. Development of a simulation modeling tool to evaluate ecological impacts of livestock grazing in the Eastern Sierra of California. 62nd Annual Meeting of the Society for Range Management. Albuquerque, New Mexico. 8-13 February.
49. Mata-Gonzalez, Ricardo, Terry McLendon, David W. Martin, M.J. Trlica, and Robert A. Pearce. 2006. Plant cover as related to groundwater depth in the Owens Valley, CA. 91st Annual Meeting of the Ecological Society of America. Memphis, Tennessee. 6-11 August.
48. Mata-Gonzalez, Ricardo, Rachael G. Hunter, Cade L. Coldren, Terry McLendon, and Mark W. Paschke. 2006. Simulating long-term impacts of methods of control of *Bromus tectorum* at Yakima Training Center. 59th Annual Meeting of the Society for Range Management. Vancouver, British Columbia. 12-16 February.
47. Naumburg, Elke, Paula Hubbard, Dave Martin, and Terry McLendon. 2005. Successional trends following cultivation in Owens Valley, CA. 90th Annual Meeting of the Ecological Society of America. Montreal, Canada. 7-12 August.
46. McLendon, Terry, Nicholas Pansic, W. Michael Childress, Cade L. Coldren, and Derek J. Williams. 2005. Simulation modeling of vegetation impacts on barrier island stability during hurricane events using the ECOS2T model. 2005 Solutions to Coastal Disasters Conference. American Society of Civil Engineers. Charleston, South Carolina. 8-11 May.
45. Mata-Gonzalez, Ricardo, Rachael G. Hunter, Terry McLendon, and Mark W. Paschke. 2005. Modeling plant growth on cheatgrass and knapweed sites on military training lands. 58th Annual Meeting of the Society for Range Management. Fort Worth, Texas. 5-11 February.
44. Naumburg, Elke, Paula Hubbard, David Martin, and Terry McLendon. 2004. Effect of groundwater depth and precipitation on grass and shrub vegetation during two years in Owens Valley, CA. 89th Annual Meeting of the Ecological Society of America. Portland, Oregon. 1-5 August.
43. Mata-Gonzalez, Ricardo, Rachael G. Hunter, Terry McLendon, and David W. Martin. 2004. Effects of groundwater fluctuations on upland and riparian plants: a review. 57th Annual Meeting of the Society for Range Management. Salt Lake City, Utah. 24-30 January.
42. Mata-Gonzalez, Ricardo, Terry McLendon, and David W. Martin. 2003. The transpiration coefficient (Kc) method and its suitability to estimate evapotranspiration in arid-land vegetation. Annual Meeting of the Agronomy Society of America/Crop Science Society of America/Soil Science Society of America. Denver, Colorado. 2-4 November.
41. Warren, S.D., M.W. Paschke, E.F. Redente, D.A. Klein, L. Smith, M.E. Howard, A.L. Klawitter, T. McLendon, W.M. Childress, B. Cochrane, and J. Linn. 2002. Integrated control, assessment, and prediction of knapweeds and annual bromes on DOD installations. 11th Annual Integrated Training Workshop. Savannah, Georgia. August.
40. Chermak, John A. and Terry McLendon. 2001. Applying innovative technologies to reduce mineland closure risks and costs. Integrated Mining and Land Reclamation Planning Workshop. Reno, Nevada. 23-27 April.
39. Fleckenstein, J., E. Schnug, M. Meyer, T. McLendon, and D. Price. 2000. Determination of uranium uptake by plants by means of inductive coupled plasma mass spectrometry. International Symposium on Nuclear Techniques in Integrated Plant Nutrient, Water and Soil Management. FAO/IAEA. Vienna, Austria. 16-20

October.

38. Paschke, Mark W., Edward F. Redente, and Terry McLendon. 2000. Control of annual plant species on disturbed soils by manipulation of soil nitrogen availability. 85th Annual Meeting of the Ecological Society of America. Snowbird, Utah. 6-10 August.
37. Childress, W. Michael, Terry McLendon, and Cade L. Coldren. 2000. Applying a complex, general ecosystem model (EDYS) in large-scale land management. Modelling Complex Systems Conference. Montreal, Quebec. 31 July-2 August.
36. McLendon, Terry and W. Michael Childress. 1999. Simulation of multi-scale environmental impacts using the EDYS model. 4th USA/CIS Joint Conference on Environmental Hydrology and Hydroecology. American Institute of Hydrology Annual Meeting. San Francisco, California. 7-10 November.
35. McLendon, Terry and W. Michael Childress. 1999. Applications of the EDYS model in ecological risk assessment and reclamation. 1999 Minerals Council of Australia Environmental Workshop. Townsville, Queensland. 10-15 October.
34. McLendon, Terry, W. Michael Childress, David L. Price, and Terry Atwood. 1999. Ecological Dynamics Simulation Model (EDYS). Sixth National Watershed Conference. Austin, Texas. 17 May.
33. Price, David L, Terry McLendon, and W. Michael Childress. 1998. Application of the EDYS model to juniper invasion and effects on water dynamics of a central Texas landscape. Conference on Rangeland Management and Water Resources. American Water Resources Association. Reno, Nevada. 28 May.
32. McLendon, Terry, W. Michael Childress, David L. Price, Don Jones, and Brett Russell. 1997. A landscape-level adaptation of the ecological dynamics simulation model EDYS. Sixth Annual ITAM Workshop. San Antonio, Texas. 26-28 August.
31. McLendon, Terry, W. Michael Childress, and David L. Price. 1997. Multivariate statistical classification of the vegetation of Fort Bliss, Texas. 82nd Annual Meeting of the Ecological Society of America. Albuquerque, New Mexico. 11-14 August.
30. Childress, W. Michael, Terry McLendon, and David L. Price. 1997. Vegetation dynamics projected by an ecosystem model for black grama communities at Fort Bliss, Texas. 82nd Annual Meeting of the Ecological Society of America. Albuquerque, New Mexico. 11-14 August.
29. Meyer, Michael C., Matthew J. Oberle, Terry McLendon, and Edward F. Redente. 1997. Screening level ecological risk assessment of an inactive uranium mine site. 36th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Cincinnati, Ohio. 13-17 March.
28. Meyer, Michael C., Mark W. Paschke, and Terry McLendon. 1996. Effects of depleted uranium on decomposition and soil bacterial communities. Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC). Washington, DC. 17-21 November.
27. Meyer, Michael C., Mark W. Paschke, and Terry McLendon. 1996. Effect of depleted uranium on decomposition and nitrogen mineralization. 14th Annual Mountain West Society of Toxicology Meeting. Snowbird, Utah. 3-4 October.
26. McLendon, Terry, W. Michael Childress, and David L. Price. 1996. Use of land condition trend analysis (LCTA) data to develop a community dynamics simulation model as a factor for determination of training carrying capacity of military lands. 5th Annual LRAM/ITAM Workshop. LaCrosse, Wisconsin. 27 August

25. Paschke, Mark W., Terry McLendon, Donald A. Klein, and Edward F. Redente. 1996. Effects of nitrogen availability on plant and soil communities during secondary succession in a shortgrass steppe. 81st Annual Meeting of the Ecological Society of America. Providence, Rhode Island. 10-14 August.
24. McLendon, Terry, W. Michael Childress, and David L. Price. 1996. Comparison of vegetation across landscape and regional scales using multivariate statistical analysis of Army LCTA data sets. 11th Annual U.S. Landscape Ecology Symposium. Galveston, Texas. 28 March.
23. McLendon, Terry, W. Michael Childress, and David L. Price. 1996. Development of a preliminary succession model for determination of training carrying capacity of military installations. 49th Annual Meeting of the Society for Range Management. Wichita, Kansas. 13 February.
22. McLendon, Terry, Jill L. Richards, and David L. Price. 1996. Competition among three seral grasses under moisture, nitrogen, and clipping gradients. 49th Annual Meeting of the Society for Range Management. Wichita, Kansas. 13 February.
21. Meyers, Michael C. and Terry McLendon. 1995. Phytotoxicity of depleted uranium on three grasses characteristic of different successional stages. Second SETAC World Congress. Society of Environmental Toxicology and Chemistry. Vancouver, British Columbia. 5-9 November.
20. Klein, Donald A., Terry McLendon, Mark W. Paschke, and Edward F. Redente. 1995. Nitrogen dynamics and fungal-bacterial responses in successional semi-arid steppe soils. American Society of Microbiology 1995 Annual Meeting. Washington, DC.
19. McLendon, Terry, Mark W. Paschke, Edward F. Redente, and Donald A. Klein. 1995. Effects of nitrogen availability on plant and microbial communities along a post-cultivation gradient in a semiarid grassland. 48th Annual Meeting of the Society for Range Management. Phoenix, Arizona. 16-20 January.
18. McLendon, Terry, Donald A. Klein, Mark W. Paschke, and Edward F. Redente. 1994. Above- and belowground characteristics along a chronosequence of abandoned cropland in a shortgrass plains ecosystem. 79th Annual Meeting of the Ecological Society of America. Knoxville, Tennessee. 8-11 August.
17. Hakonson, T.E., A.W. Alldredge, T.B. Kirchner, T. McLendon, and E.F. Redente. 1994. Development of ecological risk assessment procedures for Los Alamos National Laboratory, New Mexico. 79th Annual Meeting of the Ecological Society of America. Knoxville, Tennessee. 8-11 August.
16. Childress, W. Michael and Terry McLendon. 1994. Community vectors and landscape heterogeneity at Fort Hood, Texas. Annual Meeting of the Society for Landscape Ecology. Tucson, Arizona. March.
15. McLendon, Terry. 1994. Invasion dynamics of a non-native plant, Canada thistle (*Cirsium arvense*) in montane riparian ecosystems. 47th Annual Meeting of the Society for Range Management. Colorado Springs, Colorado. 14-18 February.
14. McLendon, Terry, Bryan A. Stevenson, and Edward F. Redente. 1993. Effects of soil fumigation and initial species composition on early secondary succession in a semiarid shrubland. 78th Annual Meeting of the Ecological Society of America. Madison, Wisconsin.
13. McLendon, Terry and Edward F. Redente. 1992. Role of nitrogen availability in the transition from annual-dominated to perennial-dominated seral communities. Symposium on the Ecology, Management, and Restoration of Intermountain Annual Rangelands. Boise, Idaho.

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