

LYNN EUGENE LOOMIS

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COUNTRY OF CITIZENSHIP: United States of America
HIGHEST FEDERAL CIVILIAN GRADE HELD, JOB SERIES, AND DATES OF EMPLOYMENT IN GRADE: GS-0470-12, November 2001 to present

EDUCATION:

Diploma, 1977, Mooreland High School, Mooreland, Oklahoma 73852

B.S., 1981, Rangeland Resources Management, Oklahoma State University, Stillwater, Oklahoma 74074. Overall GPA = 3.84.

Soil science courses

Fundamentals of Soil Science	Advanced Soil Morphology
Soil Morphology and Classification	Soil Judging
Soil and Water Conservation	Plant Physiology
Oklahoma Soils and Uses	

M.S., 1984, Range Science, New Mexico State University, Las Cruces, New Mexico 88003.

Thesis title "Some Taxonomic and Ecological Relationships of New Mexico Perennial Snakeweeds." Overall GPA = 3.59. Dr. Kirk McDaniel, Advisory Committee Chair.

Soil science course

Soil-Plant Relationships

Ph.D., 1989, Range Science, Texas A&M University, College Station, TX 77843. Dissertation title "Influence of Heterogeneous Subsoil Development on Vegetation Patterns in a Subtropical Savanna Parkland, Texas." Overall GPR = 4.00. Dr. Steve Archer, Advisory Committee Chair.

Soil science courses

Pedology	Soil Fertility and Fertilizers
Special topics in Pedology and Geomorphology	Soil Chemistry and Fertility Lab
Soil Physics	Soil Microfabric / Reconstruction Analysis
Soil Microbiology	Forest and Range Watershed Management

OTHER TRAINING:

Rapid Assessment of Soil Carbon, NRCS, Lincoln, NE, 2010
NASIS 6.0, NRCS, online, 2010
Remote Sensing for Soil Survey Applications, NRCS, Fort Worth, TX, 2009
SIE software, NRCS, Whites City, NM, 2008
Management of Soil Surveys by MLRA, NRCS, online, 2008, 2009
Gypsum Soils Workshop, NRCS, Lincoln, NE, 2007
Intermediate NASIS, NRCS, online, 2007
Digital Soil Mapping Workshop, NRCS, Davis, CA, 2007
SoLIM Software, NRCS, Whites City, NM, 2006
SoLIM Field techniques, NRCS, Pecos, TX 2006
Pedon-PC National development team, NRCS, 2005
SoLIM Software, NRCS, Marfa, TX, 2005
Digital Soil Survey Mapping and Updating. NRCS, Fort Worth, TX, 2005
SoLIM Orientation, NRCS, Marfa, TX, 2005
Correlation and Management of MLRA Soil Surveys, NRCS, Nebraska City, NE, 2004
Excavation Safety, NRCS, Midland, Lubbock, and Abilene, TX, 2003, 2004, 2009
Proper Riparian Function, NRCS, Alpine, TX, 2004
Introductory ArcGIS 8.2, NRCS, Marfa, TX, 2003
Soil Geomorphology Institute, NRCS, Las Cruces, NM, 2002
Supervising for Excellence, NRCS, Oklahoma City OK, 2002
Intermediate NASIS, NRCS, Temple, TX, 2002
Intermediate ArcView, NRCS, Temple, TX, 2002
Basic NASIS, NRCS, Temple, TX, 2001
Introductory ArcView, Marfa, TX, 2001
Web Technology, Sul Ross State University, Alpine, TX, 2000
Total Quality Management, 1996. Fort Davis, TX, 1996
Defensive Driving, NRCS, Uvalde and Fort Stockton, TX, 1990, 1993, 1996, 2003, 2006, 2010
Cultural Resources, NRCS, Uvalde and El Paso, TX, 1992, 1994
Hydric soils field training, NRCS, Corpus Christi, TX, 1993
Conservation Planning, NRCS, Junction, TX, 1992
Soil Correlation, NRCS, Lincoln, NE, 1992
Basic Soil Survey, NRCS, Lincoln, NE, 1991
Conservation Planning, NRCS, Junction, TX, 1990
Management Level 1, NRCS, Temple, TX, 1990
Incident Command System, US Forest Service, Bishop, CA, 1989
Basic Firefighting, US Forest Service, Bishop, CA, 1989

CURRENT POSITION:

December 2000-present MLRA Soil Survey Project Leader (GS-0470-11/12) Marfa, TX. 40 hrs per week. Supervisor (2000-2003): Mike Golden, Washington, DC. Telephone 202-720-7848. Supervisor 2003-2008: Mike Risinger, Belton, TX. Telephone: 254-780-2615. Current Supervisor: Dennis Williamson, Temple, TX. Telephone 254-748-9858.

I manage(d) soil surveys in Presidio, Hudspeth, Culberson Counties, and Big Bend National Park, with limited responsibilities in Brewster County, Main Part and El Paso County (MLRA's 42 and 81D): These soil survey areas encompass about 8 million acres and include 3 soil temperature regimes, 4 soil moisture regimes, with very diverse parent materials, landforms,

and plant communities. Currently I serve as one of two leads in MO9 for the Rapid Assessment of US Soil Carbon for Conservation Planning and Climate Change project.

Major responsibilities: legend development and map unit design; production soil survey mapping; map unit documentation; pedon selection, description, and sampling; NASIS database population; supervision of staff consisting of 3 soil scientists and 1 range management specialist.

Other tasks: drafted Memoranda of Understanding for soil surveys in Hudspeth and Culberson Counties; performed workload analysis; developed annual business plan; reported quarterly progress; collected existing literature (published articles, theses, dissertations) describing soils, geology, landforms, and vegetation of survey areas; obtained permission from landowners to perform soil surveys; organized two MLRA 42 business meeting (thereafter, MLRA business meetings were held via conference call); compiled soil maps in GIS; collected and compiled soil temperature data from 35 locations; collected vegetation data to support ecological site descriptions; quantified dynamic soil properties within ecological site steady states; organized and managed at least 14 soil survey mapping and documentation details; wrote 1200 pedon descriptions and 35 soil transects using GPS, SRITB, and Pedon-PC; performed QC on several hundred pedon descriptions written by detailees; selected, described, and sampled 12 pedons for characterization; selected component pedons and series typical pedons for Big Bend National Park, Presidio County, and Culberson County soil survey manuscripts; drafted 4 soil characterization workplans; reviewed soil characterization data from National Soil Survey Lab, TAMU Soil Characterization Lab, and Texas Tech Soils Lab for 50 pedons; populated 99 new component tables, and 223 new component horizon tables based on soil characterization data (horizon properties, particle size, pH, Unified, AASHTO, calcium carbonate, gypsum, SAR, CEC, ecological site, landscape, landform) for Brewster County Main Part, Big Bend National Park, Presidio County, Culberson County; validated and fixed errors in NASIS 187 components, and 367 component horizon tables for Brewster County Main Part, Big Bend National Park, Presidio County, Culberson County; wrote (35) / revised (52) official series descriptions; created 8 block diagrams for general soil map units of Brewster County, Main Part and Big Bend National Park with 3D-Mapper; edited spatial database to remove sliver polygons and common soil lines; created general soil maps for Brewster County and Big Bend National Park by aggregating detail soil map units with ArcGIS; selected 56 photographs and drafted captions for manuscript; authored “Geology” and “Formation of the Soils” sections for Brewster County and Big Bend soil survey manuscripts; West Texas SoLIM pilot project; analyzed transect documentation for 6 Presidio County map units with Analysis-PC, Access, and Excel; discovered, tested, codified, and archived rules that describe the distribution of soils within 9 landscapes; implemented rules with SoLIM, SIE, and ArcSIE to created raster soil maps of 8 geographical areas within West Texas; performed soil quality / dynamic soil properties assessments in Big Bend National Park; field-tested Pen and Fujitsu tablet computers with ArcView and Windows Pedon software; answered questions from customers and clients; provided real-time telephone training for 8 WebSoilSurvey users to create soil maps and soil interpretations; developed and implemented criteria to create GIS map identifying prime habitat for antelope in Trans-Pecos Texas used for EQIP antelope-friendly fence program; conducted 3 on-site investigations for home and business construction; provided soil survey field training for 2 range management specialists on soil survey staff; provided field and office training in soils to 2 soil scientists, 2 soil conservation technicians and 4 range management specialists; provided field data and sample collection, and office training to 18 soil scientists in 6 soil survey offices for the Rapid Assessment of Soil Carbon project; provided Rapid Assessment of

Soil Carbon field training to 4 soil conservationists, 1 range management specialist, and 1 soil conservation technician; described, collected vegetation data and soil samples at 45 Rapid Assessment of Soil Carbon sites in Canadian-Pecos Plains (MLRA 70), Bluestem Hills (MLRA 76), Southern High Plains (MLRA's 77E, 77C), Rolling Red Plains (MLRA's 78B, 78C), Rolling Red Prairie (MLRA 80A), Cross Timbers (MLRA 84A), Edwards Plateau (MLRA's 81A, 81D); wrote 50 pedon descriptions and 5 transects in Mason County soil documentation detail (MLRA 82A); negotiated soil survey map joins between Brewster County Main Part and Presidio County, between Brewster County Main Part and Big Bend National Park, and between Hudspeth County and El Paso County; regularly reported to Soil and Water Conservation District and Groundwater Management District Board members regarding progress of soil surveys; served on National Cooperative Soil Survey Gypsum Soils working group; organized and lead 2 National Cooperative Soil Survey field trips to Culberson Gypsum Plain; with TTU faculty and NRCS New Mexico soil scientists wrote draft proposal to modify the classification of soils with high gypsum content in Soil Taxonomy; organized, edited guidebook, and lead 2008 Soil Science Society of America field trip to Culberson Gypsum Plain; generated draft soil survey manuscript (map unit generator report, taxonomic unit description report, interpretive tables, all from NASIS) for Big Bend National Park staff, organized 2 ecosite workshops; organized and lead ecosite data collection detail in Big Bend National Park;

PREVIOUS POSITIONS:

January 1997-December 2000 Assistant Professor of Natural Resource Management, Sul Ross State University, Alpine, TX. 40 hrs per week. Supervisor: Dr. Robert Kinucan, Alpine, TX. Telephone 432-837-8200.

I taught the following Rangeland Ecology and Management, Soil Science, and Statistics courses in the School of Agricultural and Natural Resource Sciences:

- Agronomy (NRM 1402)
- Introductory Range Management (NRM 2401)
- Soils (NRM 2404)
- Agricultural Statistics (NRM 3308)
- Soil Morphology, Genesis, and Classification (NRM 3311)
- Rangeland Ecology (NRM 3401)
- Undergraduate Seminar (NRM 4101)
- Environmental Assessment (NRM 4301)
- Range Plant Management and Utilization (NRM 4404)
- Range and Wildlife Habitat Management (NRM 4405)
- Graduate Seminar (NRM 5101)
- Special Topics: Principles of Ecology (NRM 5302Q)
- Special Topics: Soil-Vegetation Systems of Far West Texas (NRM 5302R)
- Special Topics: Range Research Applications (NRM 5302S)
- Special Topics: Soil Physical, Chemical, and Mineralogical Analysis (NRM 5302L)
- Special Topics: Advanced Techniques in Vegetation Analysis (NRM 5302N)
- Range and Wildlife Research Methods (NRM 5305)
- Advanced Agricultural Statistics I (NRM 5312)
- Advanced Agricultural Statistics II (NRM 5313)

I served on two University committees (Undergraduate Admission and Retention, and Student Service Fee Allocation), and a departmental faculty search committee. Furthermore, I served as advisory committee chair/co-chair for 7 M.S graduate students investigating soil-vegetation relationships in Trans-Pecos Texas, and as member of advisory committees for 8 M.S. students. I was co-advisor of the Range and Wildlife Club, and advised about 20 undergraduate students. Created Order 2 soil survey of TAMU AgriLife Research Station at Sonora (3750 acres), wrote 60 pedon descriptions and 4 soil transects; collected plant cover data from 20 vegetation plots; provided soils training to 9 Sul Ross State University graduate students (4 soil scientists, 4 range ecologists, 1 wildlife biologist)

November 1993-December 1996 Soil Scientist (GS-0470-9), Soil Survey of Presidio County, USDA Natural Resources Conservation Service, Marfa, TX. 40 hrs per week. Supervisor: Jerry Rives, Cleburne, TX. Telephone 817-645-6582.

December 1989-October 1993 Soil Scientist (GS-0470-7/9), Soil Survey of Edwards and Real Counties, USDA Soil Conservation Service, Uvalde, TX. 40 hrs per week. Supervisor: Wayne Gabriel, Temple, TX. Telephone 254-742-9855.

For seven years I made Order 3 soil surveys on about 1 million acres of rangeland in Edwards, Real, Crockett, Brewster, and Presidio Counties, Texas.

Major responsibilities: legend development and map unit design; obtained permission from landowners to perform soil surveys; soil survey mapping; map compilation; served on 10 Soil survey mapping and documentation details wrote 1200 pedon descriptions and 120 transects to document soil properties and taxonomic composition of map units; assigned taxonomic class within Soil Taxonomy to pedons; and managed pedon description database (Unix Pedon).

Writing responsibilities: articles for local newspapers; official soil series descriptions; soil interpretation records; field trip guidebooks; and map unit descriptions for soil survey manuscripts.

Additional duties: participated in field reviews; conducted 6 on-site investigations for home, business, and church construction; described and sampled 12 pedons in the Trans-Pecos (MLRA 42), Edwards Plateau (MLRA's 81A, 81B, 81C), and Rio Grande Plains (MLRA's 83A, 83C) for laboratory characterization; analyzed particle size distribution (250 samples), CaCO₃ (250 samples), and electrical conductivity (250 samples) in the laboratory; provided training on soil series concepts and soil map unit concepts to soil mapping detailees; provided training in soil survey field techniques to a graduate student from Egypt; assisted setting up 4 soil judging contests; regularly communicated to Soil and Water Conservation District board members about progress of soil survey; organized, edited guidebook, and lead 1991 Professional Soil Scientists of Texas field trip; provided soils training to Texas Department of Health wastewater disposal system inspectors; analyzed water intake rate of soils with double ring infiltrometer and drip infiltrometer.

May-September 1989 Soil Scientist (GS-0470-7), Inyo National Forest, USDA Forest Service, Bishop, California. 40 hrs per week. Supervisor: Karen Zamudio, Lakeview, Oregon. Telephone 541-947-6251. Described and classified about 50 sites and pedons in back-country and wilderness settings as member of Riparian Ecosystem Classification Team.

January 1984-May 1989 Graduate Research Assistant, Department of Range Science, Texas A&M University, College Station, TX. 20 hrs per week. Supervisor: Steve Archer, Tucson, Arizona. Telephone 520-626-8791. Worked in designing, applying, and evaluating brush management experiments and range ecology research in South Texas. Evaluated plant cover, plant mortality resulting from herbicide application; described and sampled 18 pedons in the Rio Grande Plains (MLRA's 83C, 83E), Texas Blackland Prairie (MLRA 86A), Texas Claypan Area (MLRA 87A) for laboratory characterization; analyzed particle-size distribution (550 samples), bulk density (56 samples), 1/3 bar water (56 samples), 15 bar water (56 samples), calcium carbonate (600 samples), cation exchange capacity (56 samples), pH (550 samples), clay and skeleton mineralogy by x-ray diffraction, and soil micromorphology in thin section at the TAMU Soil Characterization Laboratory; analyzed organic carbon (550 samples), total N (56 samples), and phosphate (56 samples) at the Range Science Hydrology lab. Taught Fundamentals of Ecology Laboratory (RENR 215) for two semesters.

May 1981-December 1983 Graduate Research Assistant, Department of Animal and Range Sciences, New Mexico State University, Las Cruces. 20 hrs per week. Supervisor: Kirk McDaniel, Las Cruces, New Mexico. Telephone 505-646-1191. Worked in designing, applying, and evaluating brush and weed control experiments. Also worked evaluating hydrological response of sagebrush/grass rangelands to herbicide treatments with drip infiltrometer; Taught Range Grasses Laboratory (RGSC 305) for two semesters.

PUBLICATIONS:

Poulos H.M., A.E. Camp, R.G. Gatewood, and L.E. Loomis. 2007. A hierarchical approach for scaling forest inventory and fuels data from local to landscape scales in the Davis Mountains, Texas, USA. *Forest Ecology and Management* 244:1–15.

Green M.C., L.H. Harveson, and L.E. Loomis. 2001. Habitat selection by collared peccaries in Trans-Pecos Texas. *Southwestern Naturalist* 46: 246-251.

Kinucan, R.J., L.E. Loomis, B.J. Warnock, and K. Cearley. 1999. Banded Vegetation and Soil Patterns in the Stockton Plateau, West Texas USA. VI International Rangeland Congress Proceedings 1:122-1244.

McDaniel, K.C., and L.E. Loomis. 1985. Livestock Poisoning by Perennial Snakeweeds. *Weeds Today* 16:9-11.

McDaniel, K.C., R.D. Pieper, L.E. Loomis, and A.A. Osman. 1984. Taxonomy and Ecology of Perennial Snakeweeds in New Mexico. *New Mexico Agriculture Experiment Station Bulletin* 711.

NEW OSD's

Beewon, Boludo, Borunda, Butcherknife, Cesario, Cheosa, Fizzleflat, Gemelo, Holguin, Lingua, Loyplace, Martillo, Musgrave, Nillo, Pardo, Quadria, Rockpens, Reduff, Saucedo, Scotall, Straddlebug (Brewster County 1996); Blackgap, Bofecillos, Geefour, Leyva, Strawhouse, (Brewster County 2009); Blackflat, Cavewell, Elcor, Dillyhunt, Hollebeke, Joberanch, Neimahr, Pokorny, Walkerwells (Culberson County 2009)

GUIDEBOOKS:

- Loomis, L.E. (ed). 2008. Characterization and interpretation of soils and geologic formations with carbonates, gypsum, and other soluble salts. Soil Science Society of America Pre-meeting field trip guidebook. 99 pp.
- Loomis, L.E. (ed). 2000. Soils and Vegetation of Limpia Canyon Primitive Area, Jeff Davis County, Texas. Guidebook for field trip held during 5th annual meeting of Texas Society for Ecological Restoration. 39 pp.
- Loomis, L.E., W.J. Gabriel, and B.E. Brasher. 1992. Genesis of the Quihi Soil in the Uvalde Gravel of South-Central Texas. pp. 52-77 IN: R.D. Mandel and S.C. Caran (eds). Late Cenozoic alluvial stratigraphy and prehistory of the Inner Gulf Coastal Plain, South-Central Texas. Lubbock Lake Landmark Quaternary Research Center Series 4.
- Loomis, L.E., and W.J. Gabriel. 1991. Soils on Late Holocene to Mid-Tertiary erosional and depositional geomorphic surfaces in the Central Edwards Plateau. Guidebook for field trip held during 9th annual meeting of Professional Soil Scientists Association of Texas. 38 pp.

MANUSCRIPTS:

- Key to the identification of soil map units at Big Bend National Park, Texas.
- SoLIM models for Culberson County.
- Request for a Method to Systematically Classify Landforms.
- A Soilscape Model for the Bandera Mesa-San Jacinto Mountain-Jordan Gap Area, Presidio and Brewster Counties, Texas.
- A Soilscape Model for Green Valley, Trans-Pecos Texas.
- Bibliography for the Edwards Plateau.
- Documenting Landscape Continua and Discontinuities in the Soil Survey of Edwards and Real Counties, Texas.
- Soil Survey: Conjecture, Hypothesis, Model, Theory, Fact or Fiction?

MAPS

- Order 2 soil survey of TAMU AgriLife Research Station at Sonora (x map units, 3750 acres)
- Raster soil map of Agua Adentro Mountain and Saucedo Ranch quadrangles, Presidio County (7 components, 80,000 acres)
- Draft raster soil map of Outlaw Spring quadrangle, Culberson County, Texas (6 components, 40,000 acres)
- Raster soil map of Culberson Sand Sheet (2 components, 40,000 acres)
- Raster soil map of Sheep Peak area, Hudspeth County, Texas (8 components, 160,000 acres)
- Draft raster soil map of Quitman Piedmont, Hudspeth County, Texas (9 components, 50,000 acres)
- Raster soil map of Culberson Gypsum Plain, Trans-Pecos Texas (10 components, 640,000 acres)

PRESENTATIONS:

- Lynn Loomis, Greg Cates, Wayne Hudnall, and Philip Schoeneberger. 2008. Proposed Taxonomic Classification of Gypsum-Rich Soils from West Texas and Southern New Mexico. Oral presentation to Soil Science Society of America, Houston, TX.
- Lynn Loomis, and Fred Young. 2008. Digital Modeling of Soils in a Production Soil Survey on the Culberson Gypsum Plain, West Texas. Poster presentation to Soil Science Society of America, Houston, TX.
- Lynn Loomis. 2008. Modeling landforms and soils of the Quitman Piedmont, Hudspeth County, Texas. Field trip presentation to NRCS Soil-Geomorphology Institute, rural Hudspeth County, TX.
- Lynn Loomis, Arlene Tugel, Philip Schoeneberger, and Wayne Hudnall. 2007. Hypergypsic soils of the Culberson Gypsum Plain, Far West Texas. Oral presentation to Soil Science Society of America, New Orleans, LA.
- Wayne Hudnall, Lynn Loomis, Arlene Tugel, and Philip Schoeneberger. 2007. Gypsiferous and gypseous soils: What we know and what we need to change. Oral presentation to Soil Science Society of America, New Orleans, LA.
- Philip Schoeneberger, and Lynn Loomis. 2007. Soil Geomorphology Working Group: Perspectives, charges, and goals on gypsum occurrence in landscapes. Oral presentation to Soil Science Society of America, New Orleans, LA.
- Lynn Loomis. 2007. Soil: the foundation for outstanding mule deer habitat. Oral presentation and field trip discussion at Culberson County Mule Deer symposium, Van Horn, TX.
- Lynn Loomis. 2007. Soils of the Circle Ranch. Oral presentation and field trip discussion at Hudspeth County Rural Road Workshop, Circle Ranch, rural Hudspeth County, TX.
- Lynn E. Loomis and Duane Simonson. 2006. Soilscape investigations to support vector and raster soil surveys in Far West Texas. Oral and poster presentations to 18th World Congress of Soil Science, Philadelphia, PA.
- Lynn E. Loomis and Thomas C. Alex. 2006. Soils and landforms as indicators of prehistoric human occupation at Big Bend National Park, Texas. Poster presentation to 18th World Congress of Soil Science, Philadelphia, PA.
- Lynn E. Loomis. 2006. Soils and Ecological Sites of Jeff Davis County. Oral presentation to Nature Conservancy Prescribed fire workshop, rural Jeff Davis County, TX.
- Lynn E. Loomis. 2005. Migrating to Raster Soil Surveys in Far West Texas. Oral presentation to SoLIM workshop, Madison, WI (via NetMeeting).
- Lynn E. Loomis. 2005. Soils of Big Bend National Park. Oral presentation to Big Bend Ecological Site Workshop, Alpine, TX.

- Lynn E. Loomis. 2004. Combining new technology with established tools for efficient soil survey. Oral presentation to Soil Survey/Land Resource Workshop, College Station, TX.
- Judith Dyess and Lynn Loomis. 2004. Authoring Ecological Site Descriptions for Trans-Pecos Texas: A Case Study. Poster presentation to Society for Range Management meeting, Albuquerque, NM.
- Lynn E. Loomis. 2003. Trans-Pecos Mixed Prairie: What is it? Oral presentation to Mixed Prairie Ecological Site Workshop, Alpine, TX.
- Lynn E. Loomis. 2002. Updating the soil survey of Big Bend National Park. Oral presentation to Soil Survey/Land Resource Workshop, College Station, TX.
- Lynn E. Loomis, Derek Milner, and Dan Henklein. 2000. Natural revegetation of a deteriorated Clay Flat ecological site at Big Bend Ranch State Park, Presidio and Brewster Counties, Texas. Oral presentation to Texas Society for Ecological Restoration meeting, Fort Davis, TX.
- Alyson K. McDonald, L.E. Loomis, and R.J. Kinucan. 1999. Resource partitioning West Texas. Poster presentation at Soil Science Society of America meeting, Salt Lake City, UT.
- Richard A. Voldseth and L.E. Loomis. 1999. Ecological land classification and Order 2 soil survey of Davis Mountains State Park, Texas. Poster presentation at Soil Science Society of America meeting, Salt Lake City, UT.
- Lydia Ramirez, L.E. Loomis, and R.J. Kinucan. 1999. Forest, woodland, shrubland, and grassland plant communities of Davis Mountains State Park, Texas. Poster presentation at Chihuahuan Desert Research Institute Symposium on Resources of the Chihuahuan Desert, Alpine, TX.
- Alyson K. McDonald, L.E. Loomis, and R.J. Kinucan. 1999. Quantifying resource partitioning. Poster presentation at Chihuahuan Desert Research Institute Symposium on Resources of the Chihuahuan Desert, Alpine, TX.
- Robert .J. Kinucan, L.E. Loomis, B.J. Warnock, and K. Cearley. 1999. Banded vegetation and soil patterns in the Stockton Plateau, West Texas. USA. Poster presentation at VI International Rangeland Congress, Townsville, Australia.
- Richard A. Voldseth, and L.E. Loomis. 1999. Soil survey and ecological land classification of Davis Mountains State Park, Texas. Oral presentation at Soil Survey/Land Resource Workshop, College Station, TX.
- Michael C. Green, L.E. Loomis, and L.A. Harveson. 1999. Habitat selection by javelina in Trans-Pecos Texas. Oral presentation at Soil Survey/Land Resource Workshop, College Station, TX.
- Bonnie J. Warnock, L.E. Loomis, and R.J. Kinucan. 1998. Soil properties associated with banded vegetation patterns in the Stockton Plateau, West Texas. Poster presentation at Society for Range Management meeting, Guadalajara, Mexico

- Kenneth A. Cearley, R.J. Kinucan, and L.E. Loomis. 1998. Banded vegetation patterns in West Texas. Poster presentation at Society for Range Management meeting, Guadalajara, Mexico
- Warnock, B.J., L.E. Loomis, and R.J. Kinucan. 1997. Soil properties governing striped vegetation in the Western Edwards Plateau, Texas. Oral presentation at Texas Section, Society for Range Management meeting, Abilene, TX.
- Kenneth A. Cearley, R.J. Kinucan, and L.E. Loomis. 1997. Striped vegetation in the Western Edwards Plateau, Pecos County, Texas. Oral presentation at Texas Section, Society for Range Management meeting, Abilene, TX.
- Bonnie J. Warnock, L.E. Loomis, and R.J. Kinucan. 1997. Soil properties governing banded vegetation patterns in the Stockton Plateau, Texas. Poster presentation at Soil Science Society of America meeting, Anaheim, CA.
- Lynn E. Loomis and W.J. Gabriel. 1997. Surfing the Internet for soils information. Oral presentation at Soil Survey/Land Resource Workshop, College Station, TX.
- Lynn Loomis. 1997. Volcanoes, Rocks, Soils, and You. Oral presentation to Marfa History Club, Marfa, TX.
- Lynn E. Loomis and W.J. Gabriel. 1993. Building a field soil survey library. Oral presentation at Soil Survey/Land Resource Workshop, College Station, TX.
- Lynn E. Loomis and W.J. Gabriel. 1992. Documenting landscape continua and discontinuities in the soil survey of Edwards and Real Counties, Texas. Oral presentation at Soil Science Society of America annual meeting, Minneapolis, MN.
- Lynn E. Loomis and W.J. Gabriel. 1992. Soil survey: Conjecture, hypothesis, model, theory, fact, or fiction? Oral presentation at Soil Survey/Land Resource Workshop, College Station, TX.
- Lynn E. Loomis, S.R. Archer, and C.J. Scifres. 1989. Edaphic regulation of Prosopis-dominated shrub cluster development in South Texas. Poster presentation at Society for Range Management Annual Meeting, Billings, MT.
- Lynn E. Loomis, L.P. Wilding, and S.R. Archer. 1988. Genesis of contrasting Ustochrepts and Haplustalfs in the Rio Grande Plains, Texas. Poster presentation at International Working Meeting on Soil Micromorphology. San Antonio, TX.
- Lynn E. Loomis, S.R. Archer, and C.J. Scifres. 1987. Edaphic changes accompanying Prosopis/mixed-shrub succession in South Texas. Oral presentation at Society for Range Management Annual Meeting, Boise, ID.
- Lynn E. Loomis, and K.C. McDaniel. 1983. Taxonomic and ecological relationships of New Mexico perennial snakeweeds. Oral presentation at Society for Range Management Annual Meeting, Albuquerque, NM.

Many presentations on Soils to elementary school students at Marfa, Presidio, Valentine, Balmorhea, Fort Stockton, Van Horn, Dell City, Uvalde, Leakey, and Rocksprings schools. 1991-2010.

M.S. THESIS COMMITTEES CHAIRED/CO-CHAIRED:

Derek Milner. 2003. Soil Survey of Agua Adentro Mountain and Saucedo Ranch Quadrangles, Presidio County, Texas. M.S. thesis, Sul Ross State University. Alpine, TX. 143 pp.

Dan Henklein. 2003. Vegetation Alliances and Associations of the Bofecillos Mountains and Plateau. M.S. thesis, Sul Ross State University. Alpine, TX. 198 pp.

Lydia Ramirez. 2003. Classification of the Plant Communities of Davis Mountains State Park, Jeff Davis County, Texas. M.S. thesis, Sul Ross State University. Alpine, TX. 126 pp.

Rick A. Voldseth. 2001. Landscape Characterization of Davis Mountains State Park, Jeff Davis County, Texas: Using Order 2 Soil Survey in a Simple Ecological Land Classification. M.S. thesis, Sul Ross State University. Alpine, TX. 96 pp.

Alyson McDonald. 2001. Resource Partitioning Influences Vegetation Banding on the Stockton Plateau, Pecos County, Texas. M.S. thesis, Sul Ross State University. Alpine, TX. 93 pp.

John V Alcott. 1998. Characterization of Hydrologic Parameters at an "Arid Exempt" Landfill in Big Bend National Park. M.S. thesis, Sul Ross State University. Alpine, TX. 145 pp.

David R. Stopher. 1998. Ecological Analysis of the Plant Community Structure of Laguna Meadow, Big Bend National Park, Texas. M.S. thesis, Sul Ross State University. Alpine, TX. 110 pp.

Bonnie J. Warnock. 1997. Relationships Among Soil Stratigraphy, Soil Properties, and Banded Vegetation Patterns in the Western Edwards Plateau of Texas. M.S. thesis, Sul Ross State University. Alpine, TX. 101 pp.

Kenneth A. Cearley. 1996. Landscape Factors Controlling Banded Vegetation Patterns in the Stockton Plateau, West Texas. M.S. thesis, Sul Ross State University. Alpine, TX. 85 pp.

M.S. thesis committees

David Altmann. 1997. Food habits of bobcats *Felis rufus* in the Trans-Pecos and Edwards Plateau regions of Texas. M.S. thesis, Sul Ross State University. Alpine, TX. 49 pp.

Gilbert Guzman. 1998. Characteristics of mountain lion home ranges on Big Bend Ranch State Park, Texas. M.S. thesis, Sul Ross State University. Alpine, TX. 68 pp.

Chris Casaday. 2003. A vegetation classification for Amistad National Recreation Area, Val Verde County, Texas, 2001. M.S. thesis, Sul Ross State University. Alpine, TX. 77 pp.

Zan Matthies. 2000. Effects of phosphorus and potassium fertilization on yield and nutritive value of irrigated alfalfa hay from Pecos County, Texas. M.S. thesis, Sul Ross State University. Alpine, TX. 31 pp.

Michelle Cox. 2004. A pilot study to determine vegetation monitoring protocol at springs treated for *Tamarix* species in Big Bend National Park, Texas. M.S. thesis, Sul Ross State University. Alpine, TX. 135 pp.

GRANTS:

(Principal investigator)

Soil, Geomorphic, and Hydrologic Influences Upon Vegetation Patterns in the Trans-Pecos of Texas. Sul Ross State University, 1996-1997.

Characterization of the Soils of Limpia Canyon Primitive Area, Davis Mountains State Park, Jeff Davis County, Texas. Sul Ross State University, 1997-1998.

Vegetation of Limpia Canyon Primitive Area and Davis Mountains State Park, Jeff Davis County, Texas. Texas Parks and Wildlife Department, 1997-1999.

Vegetation of Limpia Canyon Primitive Area and Davis Mountains State Park, Jeff Davis County, Texas. Houston Livestock Show and Rodeo, Inc., 1997-1999.

Order 2 Soil Survey of the Texas Agricultural Experiment Station at Sonora. Sul Ross State University. 1998-1999.

Order 2 Soil Survey of the Texas Agricultural Experiment Station at Sonora. Texas Agriculture Experiment Station and USDA Natural Resource Conservation Service. 1998-1999.

Vegetation of Big Bend Ranch State Park, Presidio and Brewster counties, Texas. Sul Ross State University. 1999-2000.

Vegetation Ecology of Big Bend Ranch State Park, Presidio and Brewster Counties, Texas. Texas Parks and Wildlife Department. 1999-2001.

(Co-Investigator)

Improving Agricultural Programs for Hispanic and Other Underserved Students. USDA Cooperative State Research, Education, and Extension Service. 1999.

Interdisciplinary Computer Graphics Laboratory, National Science Foundation. 1998.

SUL ROSS STATE UNIVERSITY SERVICE:

Undergraduate Admission and Retention Committee, 1997-2000.

Student Service Fee Advisory Committee, 1998-1999.

Ad-Hoc GIS Committee, 1997-1998.

Accompanied Sul Ross Ballet Folklorico to Mexico City, 1997.

Chair, Wildlife Management Faculty Search Committee, 1997.

Co-advisor, Sul Ross Range and Wildlife Club, 1997-2000.

COMMUNITY SERVICE:

Instructor, Texas A&M University-Kingsville Range Ecology field trip to West Texas, 2005-2010
Instructor, Texas Master Naturalist, Tierra Grande chapter, 2005-2010
Instructor, Chihuahuan Desert Research Institute Range Ecology workshop, 2010
Instructor, Big Bend Soil and Water Conservation District Teachers workshop, 1994-1999
Guest lecturer, Graduate level GIS class, Sul Ross State University, 2008-2009
Weather observer, National Weather Service, Marfa, TX 2000-2006
Member, First Baptist Church, Marfa, TX
Teacher, Adult Sunday School
Church trustee

HONORS AND AWARDS:

Quality Service Increase, USDA Natural Resources Conservation Service, 1995, 2003
Certificate of Merit, USDA Natural Resources Conservation Service, 1990, 1991, 1992, 1994
Tom Slick Graduate Research Fellowship, College of Agriculture, Texas A&M University, 1987
Outstanding Academic Achievement Award, Agronomy Department, Oklahoma State University, 1981
Melvin and Mary Jones President's Distinguished Scholarship, Oklahoma State University, 1977-1981

PROFESSIONAL SOCIETY:

Soil Science Society of America
Soil Taxonomy Committee, 1994-1996
Manuscript reviewer, 2004, 2008

SKILLS

Valid Texas Driver's License
Soil survey legend development and map unit design
Soil survey mapping
Range plant identification
Particle-size analysis by sieve, pipette, and hydrometer
Organic carbon by dichromic acid and carbon analyzer methods
CaCO₃ by acid neutralization and calcimeter
Total N, nitrate, ammonium, nitrite, and phosphate by Auto-Analyzer
Soil mineralogical and elemental composition by x-ray diffraction and x-ray spectroscopy
Soil micromorphology in thin section
Statistical analysis and design of experiments
Scan and georeference aerial photographs and geological maps for use in GIS soil mapping
Download DOQQ mosaics and DRG mosaics from USDA Geospatial Data Gateway
Download Landsat and Aster imagery from various internet websites as ancillary data
Download 30 m and 10 m DEM grids from USGS NED website
Download 5 m IFSAR DEM grids from USDA Geospatial Data Gateway
Download individual quarter quad DOQ from TNRS website
Calculate the following landform metrics from DEM's for direct use in soil survey mapping: slope gradient, compound topographic index, stream power index, plan curvature, profile curvature, elevation contours
Download SSURGO and STATSGO spatial and attribute data for use in soil survey

I routinely use the following software:

Windows XP, Windows 7, Word, Excel, PowerPoint, Access, Outlook, PedonPC, AnalysisPC,
NetMeeting, WebMeeting

NASIS, SoilDataMart, Geospatial Data Gateway, USGS NED, WebSoilSurvey, NSSL Lab Data,
TNRIS, TAMU Soil Characterization Data

GIS and Image Analysis: ArcView, ArcMap, ArcCatalog, TauDem, Hawth's tools, ArcSIE,
Georeferencing toolbar, Spatial Analyst, 3D Analyst, ERDAS Imagine, 3D-Mapper

Vegetation Analysis: PC-Ord, Decorana, Twinspan