

Daniela Roth

**NM Energy, Minerals, & Natural Resources Department – Forestry Division
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EDUCATION

M.S. Degree, Fire Ecology/Plant Ecology, 1996. Oregon State University, Corvallis, OR.

B.S. Degree, Botany, minor: Wildlife, 1992. Oregon State University, Corvallis, OR.

PROFESSIONAL EXPERIENCE

BOTANY PROGRAM COORDINATOR. March 2012 – present. New Mexico Energy, Minerals, and Natural Resources Department – Forestry Division, Santa Fe, NM.

- Developed, coordinated and wrote the New Mexico Rare Plant Conservation Strategy with a multitude of federal, state, tribal, and private partners to provide management guidance and direction to prevent future federal listing of rare and endangered plants.
- Planned and conducted research throughout New Mexico to assess, map, monitor, collect and identify rare and endangered plants to determine current status, abundance, threats, population trends, and distribution.
- Conducted extensive research on the impacts of mega fires on rare and endangered plants.
- Compiled and analyzed survey and monitoring data and wrote status reports including tables, graphs and GIS maps.
- Developed and managed governmental programs and plans to protect and recover state and federal endangered plant species, promote land or conservation easements with significant ecological value, and assist private landowners in managing and preserving endangered plant habitats.
- Acquired program funding through grants and financial assistance from U.S. Fish & Wildlife Service, the Bureau of Land Management, and U.S. Forest Service.
- Supervised the NM State Forestry's Land Conservation Program.
- Supervised the NM State Forestry's Urban Forestry Program.
- Supervised work crews and contractors for habitat restoration projects.
- Managed contracts and contractors for monitoring, endangered plant surveys, data management, and GIS products.
- Chair, New Mexico Rare Plant Technical Council.

- Reviewed and commented on land use plans, recovery plans, environmental assessments, listing decisions and various development projects to determine potential impacts on rare and endangered plants.

ECOLOGIST/BOTANIST. June 2009 – March 2012. USFWS Utah Field Office
West Valley City, UT.

- Recovery coordinator and USFWS lead for 16 federally listed plant species in southern UT.
- Developed conservation strategies for federally listed plant species.
- Developed mitigation measures to avoid or minimize the effects of proposed projects on listed plant species.
- Reviewed biological assessments and environmental assessments for section 7 consultations.
- Provided agency input on environmental impact statements.
- Engaged multi agency coordination to promote the recovery of listed plant species.
- Drafted recovery plans for federally listed plant species.
- Developed funding proposals and secured funding for recovery actions of federally listed plants from the USFWS and the USGS.
- Coordinated and helped establish monitoring protocols for federally listed plants.
- Researched the status of rare and federally listed plants for USFWS 5-year reviews, recovery plans, listing documents and annual status updates through field work, herbarium searches, literature searches and consulting with agency botanists and other knowledgeable persons in the southwestern United States.
- Prepared USFWS 5-year reviews, recovery plans, listing & delisting documents and annual status updates.
- Developed partnerships with other federal agencies (USFS, BLM, NPS, USGS), state agencies, academic institutions and private organizations to promote the recovery of endangered species.

BOTANIST. February 1997 – June 2009. Navajo Natural Heritage Program, Window Rock, AZ.

- Designed and implemented monitoring strategies for plants of conservation concern to assess population trends and threats.
- Maintained the Heritage Network database for rare plants by continuously adding new species locations to the database network, mapping new populations using GIS based data systems (BIOTICS) and updating the status of known rare plant populations.
- Wrote regular technical reports on the status of rare plants.
- Regularly reviewed NEPA documents and provided comments on behalf of the Navajo Nation concerning potential project impacts on rare plants.
- Conducted extensive plant inventories and collected plant vouchers on 17 million acres of remote high desert and forest lands on the Colorado Plateau.

- Identified rare and uncommon plant communities and aided in the identification of key biodiversity areas on the Navajo Nation utilizing data gathered and maintained by the Heritage Program database.
- Identified, developed and implemented conservation and research strategies for rare plants.
- Regularly provided technical assistance to other agencies (U.S. Fish and Wildlife Service, Bureau of Indian Affairs, Bureau of Land Management, National Park Service, State Natural Heritage Programs), consultants and project sponsors about the biology, distribution, and habitat requirements of sensitive plants as well as the laws governing the protection of rare species under federal and Navajo Nation laws.
- Regularly provided guidance and developed mitigation measures to avoid or minimize impacts of developments and projects on species of conservation concern.
- Determined the status of rare and sensitive plant species occurring on 17 million acres of Navajo Nation lands through extensive field work, herbarium searches, literature searches and consulting regularly with agency botanists and other knowledgeable persons in the southwestern United States.
- Responsible for updating and maintaining the Navajo Endangered Species List as well as the Natural Heritage Network sensitive species list.
- Initiated and developed the first conservations areas on the Navajo Nation strictly set aside for the purpose to protecting an endangered species by working with local government officials, community members and federal agencies.
- Participating author of rare plant field guides for Utah, New Mexico and Arizona.
- Developed links with academic institutions and scientists, including Northern Arizona University to encourage scientific studies on the taxonomic status of rare plants.
- Curator of the Navajo Nation Herbarium.
- Developed, improved and curated the Navajo Nation Herbarium.
- Developed, maintained and upgraded the database for the Navajo Nation Herbarium.
- Principal Investigator for the NPS Inventory & Monitoring Projects for 2 National Monuments within reservation boundaries.
- Developed successful grant proposals and budgets for various inventory & rare plant conservation projects from the U.S. Fish & Wildlife Service and the National Park Service.
- Active member and advisor for the Arizona and New Mexico Rare Plant Technical councils.