

Emily Elliott
P.O. Box 1582, Laramie, WY 82073
970-217-4106
emilyelliott.eec@gmail.com
www.elliottconsultingusa.com

EDUCATION

M.S. Botany, University of Wyoming, Laramie, WY. December 2014.

B.S. Rangeland Ecology, Colorado State University, Fort Collins, CO.
December, 2006.

QUALIFICATIONS

Plant Identification

- Collected and identified over 8,000 voucher specimens as part of master's research with the Rocky Mountain Herbarium.
- Routinely make field identifications of both rare and common plant species during course of botanical surveys, collecting and pressing unknown taxa for later identification.
- Frequently perform floristic surveys, identifying all plants encountered in the course of surveys.
- Identify all plants within plots during implementation of vegetation monitoring protocols.

Botanical Survey

- Perform pre-field research to determine survey needs, targeting surveys for potential habitat of threatened, endangered, and sensitive plant species as well as noxious weeds expected in the analysis area.
- Conduct general floristic, rare plant, and noxious weed surveys, keeping detailed field notes.
- Characterize and map noxious weed and rare plant populations, and perform population and vegetation monitoring. Projects target numerous rare plant species in a variety of habitats.

Inventory and Monitoring

- Develop detailed species lists from analysis area based on either voucher specimens or field observations, highlighting species of conservation and management concern.
- Implement monitoring programs to detect change in plant populations.
- Implement rangeland monitoring based on Forest Service monitoring protocols.



GIS

- Process raw field data for incorporation into GIS.
- Develop data dictionaries to facilitate data collection and transfer.
- Perform GIS analysis to focus field surveys.
- Produce project maps.

Project Experience

- Project manager for a variety of proposed actions including mine closures, ski area expansion, utility corridors, and livestock grazing with complexity varying from small scale ground disturbance to large scale livestock grazing management monitoring and extensive (>300 miles) linear features (e.g. power transmission line corridors).
- Responsible for pre-field planning, field survey, and project notes.
- Worked in a variety of geographic locations and plant habitats in the Western United States, including:
 - Non-forested vegetation monitoring on the Lincoln National Forest, New Mexico, in 2011.
 - Directed surveys targeting new *Amerorchis rotundifolia* populations on the Shoshone National Forest, Wyoming, in 2011.
 - Voucher driven floristic inventories on the Black Hills National Forest in 2010, producing 1,400 labeled and geo-referenced herbarium specimens.
 - Botanical surveys on power transmission line corridors in Colorado, 2009.
 - Botanical surveys in support of trail re-routes on several of Colorado's 14,000-foot peaks.

EMPLOYMENT HISTORY

- Botanist and President, Elliott Environmental Consulting, Laramie, Wyoming. March 2007 to present.
- Graduate research in floristic botany, University of Wyoming, Laramie, Wyoming. May 2007 to December 2012.
- Botany Field Technician, Colorado Natural Heritage Program, Fort Collins, Colorado. May to August 2006.
- Range Technician, San Isabel National Forest, Salida, Colorado. May to August 2004 and 2005.
- Range Technician, Pike National Forest, Fairplay, Colorado. May to August 2002 and 2003.