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# FRANK J. SMITH, PRESIDENT/BOTANIST/WILDLIFE

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Western Ecological Services, Inc. P.O. Box 422 · Millville, UT 84326 · 435-881-1063

## EDUCATION

UTAH STATE UNIVERSITY  
Minor, Biology

*B.S., Plant Science, 1979*

## PROFESSIONAL EXPERIENCE

Mr. Smith has over 30 years of professional experience in plant surveys and analyses throughout the western United States and overseas. His primary areas of expertise include vegetation sampling and mapping, rare plant surveys, wetlands survey and delineation, and wildlife surveys. He has worked in most western states, including Arizona, California, Colorado, Idaho, Kansas, Montana, Nevada, New Mexico, Oklahoma, Oregon, Texas, Utah, and Wyoming. Clients include The Nature Conservancy, U.S. Fish and Wildlife Service, U.S. Forest Service, Bureau of Land Management, Bureau of Reclamation, National Park Service, Bureau of Indian Affairs, numerous state resource management agencies, military, and private businesses including Chevron, Colorado Interstate Gas, and Southern Pacific Railroad. He has worked with Utah State University (Armenia), New Mexico State University, Stanford University and Ohio State University (South Africa).

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### VEGETATION

#### *Mapping and Description of Vegetation Types*

Experienced in quantitative analysis of vegetation community types, including riparian, upland, desert, and alpine habitats.

### RARE PLANTS

#### *Threatened, Endangered and Sensitive Plant Surveys*

Prepared recovery plans for federally listed threatened and endangered plants as well as status reports for plants being considered for federal listing. Contributed to Forest Service field guides for threatened, endangered, and sensitive plants.

### WETLANDS

#### *Wetland/Riparian Plant Surveys*

Delineated wetlands using standard methods including identification of wetland/riparian plants and analysis of aerial photographs.

### WILDLIFE

#### *Survey, Census, and Delineation of Suitable Habitat*

Experienced in bird, small mammal, reptile, and butterfly survey techniques.

## ACCOMPLISHMENTS

Discovered two new taxa of *Phacelia* the names given are *Phacelia filiae* N.D. Atwood, F.J. Smith & T.A. Knight and *Phacelia petrosa* N.D. Atwood, F.J. Smith & T.A. Knight; a new species of *Viola*, name given is *Viola frank-smithii* N. Holmgren; a new species of *Gilia*, name given is *Gilia tenuis* F.J. Smith & Neese; a new variety of *Mentzelia*, name given is *Mentzelia multicaulis* (Osterh.) Goodman var. *librina* Thorne & F.J. Smith; a new variety of *Haplopappus*, name given is *Haplopappus armerioides* (Nutt.) Gray var. *gramineus* Welsh & F.J. Smith; a new species of *Penstemon*, name given is *Penstemon distans* N. Holmgren; and a new species of *Townsendia*, *Townsendia smithii* Shultz & A. Holmgren. Discovered a new taxon of *Musineon* that will be published in the near future.

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## PUBLICATIONS

Two new species of *Phacelia* (Hydrophyllaceae) from the southwestern United States. 2002. *Novon*. 12:18-26 (with N.D. Atwood and T.A. Knight).

Noteworthy collection from Nevada. 2001. *Madrono*. 48:43 (with D. Pritchett and T.A. Knight).

A new perennial species of *Gilia* (Polemoniaceae) from Utah. 1989. *Great Basin Naturalist*. 49:461-465 (with E. Neese).

A new variety of *Mentzelia multicaulis* (Loasaceae) from the Book Cliffs of Utah. 1986. *Great Basin Naturalist*. 46:555-556 (with K.H. Thorne).

New *Haploppapus* variety in Utah (Compositae). 1983. *Great Basin Naturalist*. 43:371-372 (with S.L. Welsh).

Plants of the Virgin Mountains. 1980. U.S. Department of the Interior, Bureau of Land Management, Arizona Strip District, U.S. Government Printing Office, 1980=684-931/2280 (with L.H. Rentz).