A. Center/Institute/Program

Sevilleta Field Research Station/University of New Mexico

Socorro, NM 87801

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Director/Chairperson: Dr. Donald Natvig
Representative to AERC: Dr. Scott Collins
Alternate: Dr. Kristin Vanderbilt

B. Major objectives of the Center/Institute/Program

1. Landscape/ecosystem research across environmental gradients.

2. Population dynamics/biological diversity in natural and impacted environments.

3. Physiological ecology of organisms.

C. Major ecosystem research emphases

1. Scale-dependent analyses of ecosystem processes.

2. Climate change impacts on aridland ecosystems.

3. Biogeochemistry of ecosystems along environmental gradients.

D. Staff

Permanent scientific staff: PhD: 2
Scientific support staff: Technicians: 1
Other support staff: Administrative: 1
Graduate students: PhD: 12, MS: 3
Summer undergraduates: 15

E. Approximate annual funding (recent year)

Core funding: $200,000
Grants: $2,000,000/yr, Major sources: NSF, DoE

F. Areas and facilities for ecosystem research studies

1. Sevilleta National Wildlife Refuge (100,000 ha), Magdalena Mountain, Bosque del Apache, 50-100 km south of Albuquerque.

2. Sevilleta Field Research Station, labs, housing, vehicles, conference facilities, classroom, library, computer lab.

G. Research staff directly involved in ecosystem research (names and specialty areas)

Allen, M. - ecology of mycorrhizae, belowground production
Allen, E. - ecology of plants and mycorrhizae
Brown, R. – Wireless sensor networks
Collins, S. - community and ecosystem ecology
Crawford, C. - desert decomposition dynamics, schoolyard LTER program
Dahm, C. - limnology/riparian ecosystem dynamics
D'Odorico, P. – ecohydrology, modeling
Friggens, M. – small mammals
Gosz, J. - biogeochemistry
Gutzler, D. – climatology
Koontz, T. – population ecology
Li, H.-B. - spatial analyses, mathematical ecology
Lightfoot, D. - arthropod ecology
Litvak, M. – net ecosystem exchange
Lowrey, T. - plant systematics
Marshall, D. - plant population genetics
Milne, B. - landscape dynamics
Molles, M. - watershed/ephemeral stream dynamics
Moore, D. - climate and vegetation
Muldivan, E. - plant community ecology
Natvig, D. – Fungal biology, wireless networks
Parmenter, R. - arthropod and small mammal ecology
Pennington, D. - remote sensing
Peters, D. - plant population and community ecology
Pockman, W. - plant ecophysiology
Small, E. - ecohydrology
Sinsabaugh, R. - biogeochemistry, microbial ecology
Swann, A. – Population ecology
Toolson, E. - animal physiological ecology
Vanderbilt, K. - decomposition and information management
Westman, C. - biogeochemistry, remote sensing
Wolf, B. - animal ecology
White, C. - biogeochemistry/natural plant products
Xia, Y. – plant community ecology

H. Long-term data sets (code name, number of years of data, computer accessibility)

Data sets are available at http://sev.lternet.edu/.