Natural Reserve System
UNIVERSITY OF CALIFORNIA

RESERVE APPLICATION MANAGEMENT SYSTEM (RAMS)

Managing Use & Tracking Metircs for the UCNRS since 1998

Kevin Browne, Manuel Minwary, Becca Fenwick, Mike Dorward
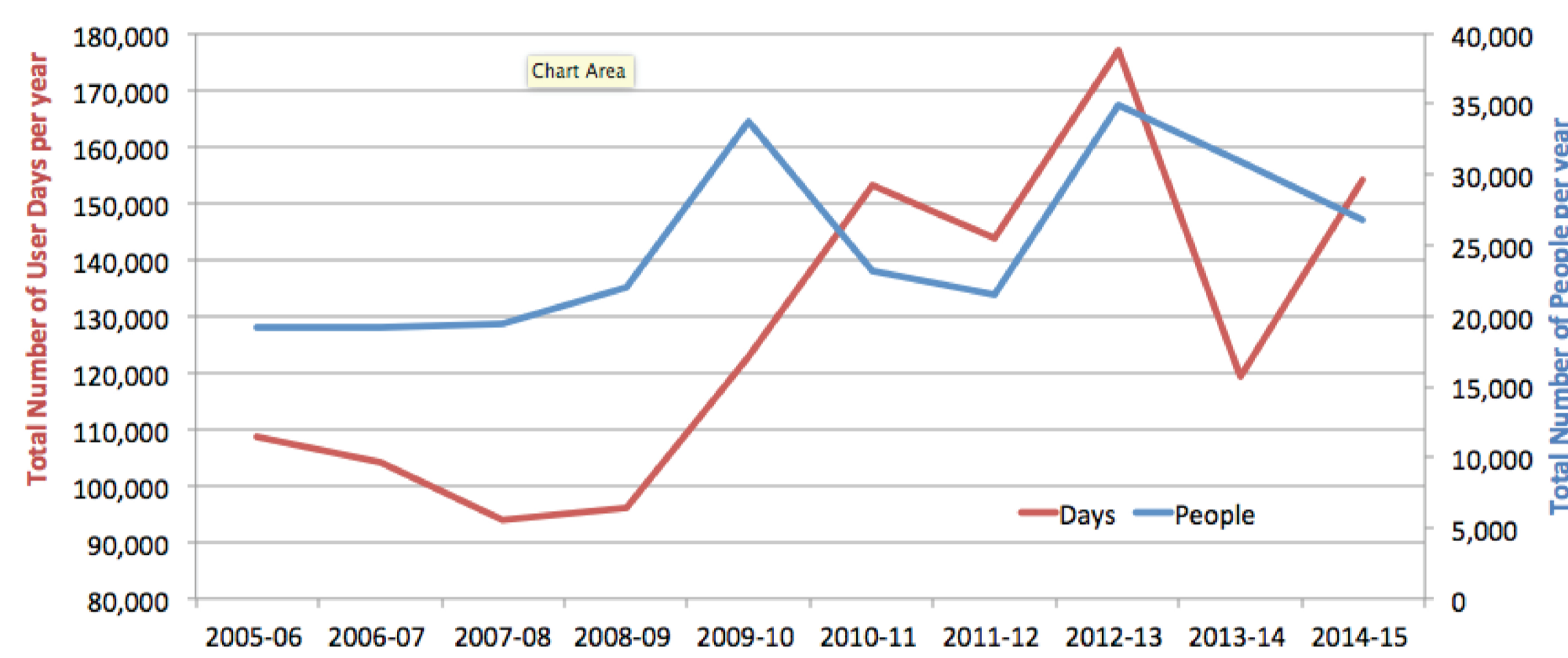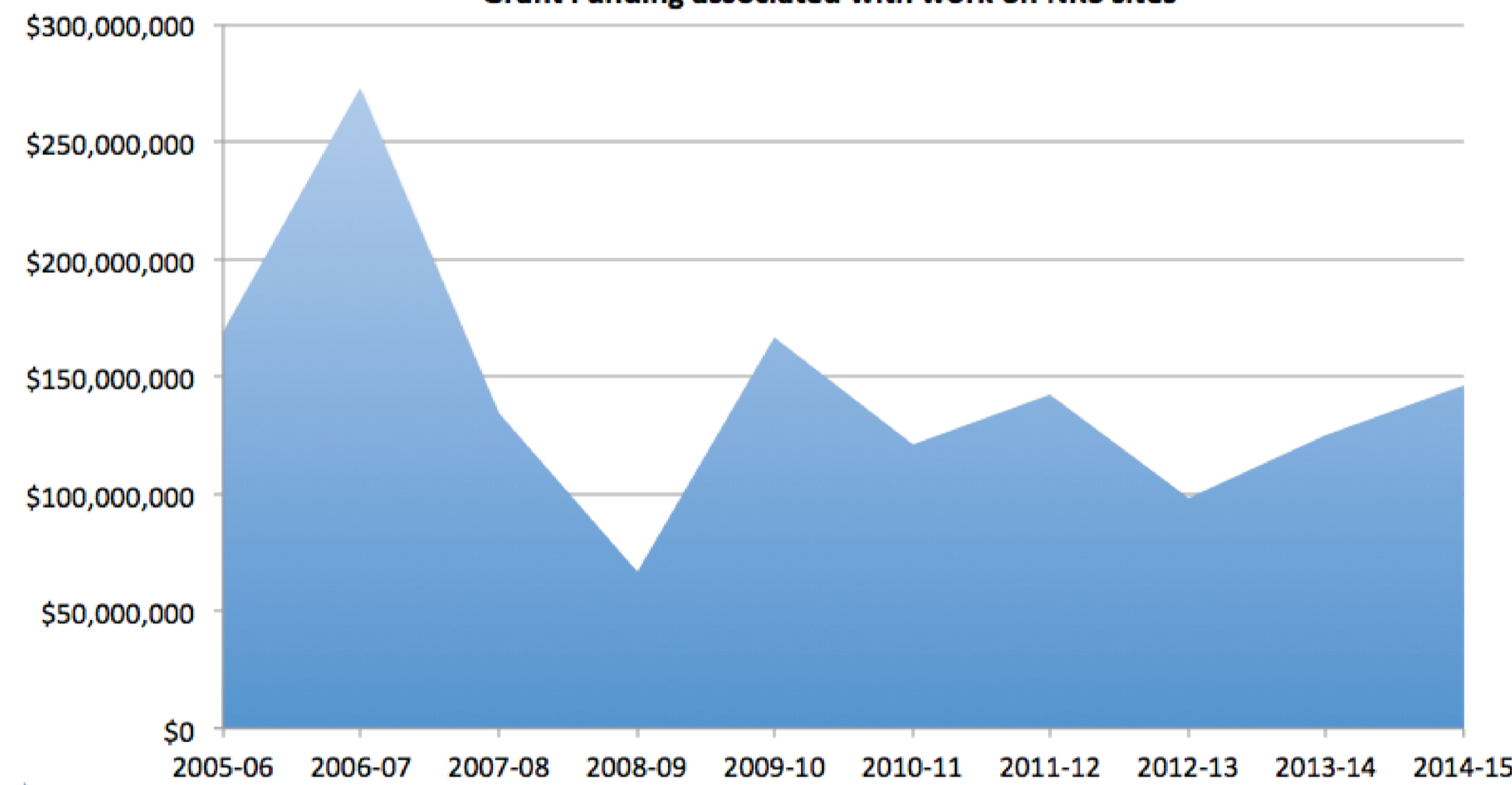
UC NRS USE STATISTICS:

On average:
    26,811 people each year
    149,417 days each year

In the last 5 years:
    > 7,000 Research Applications
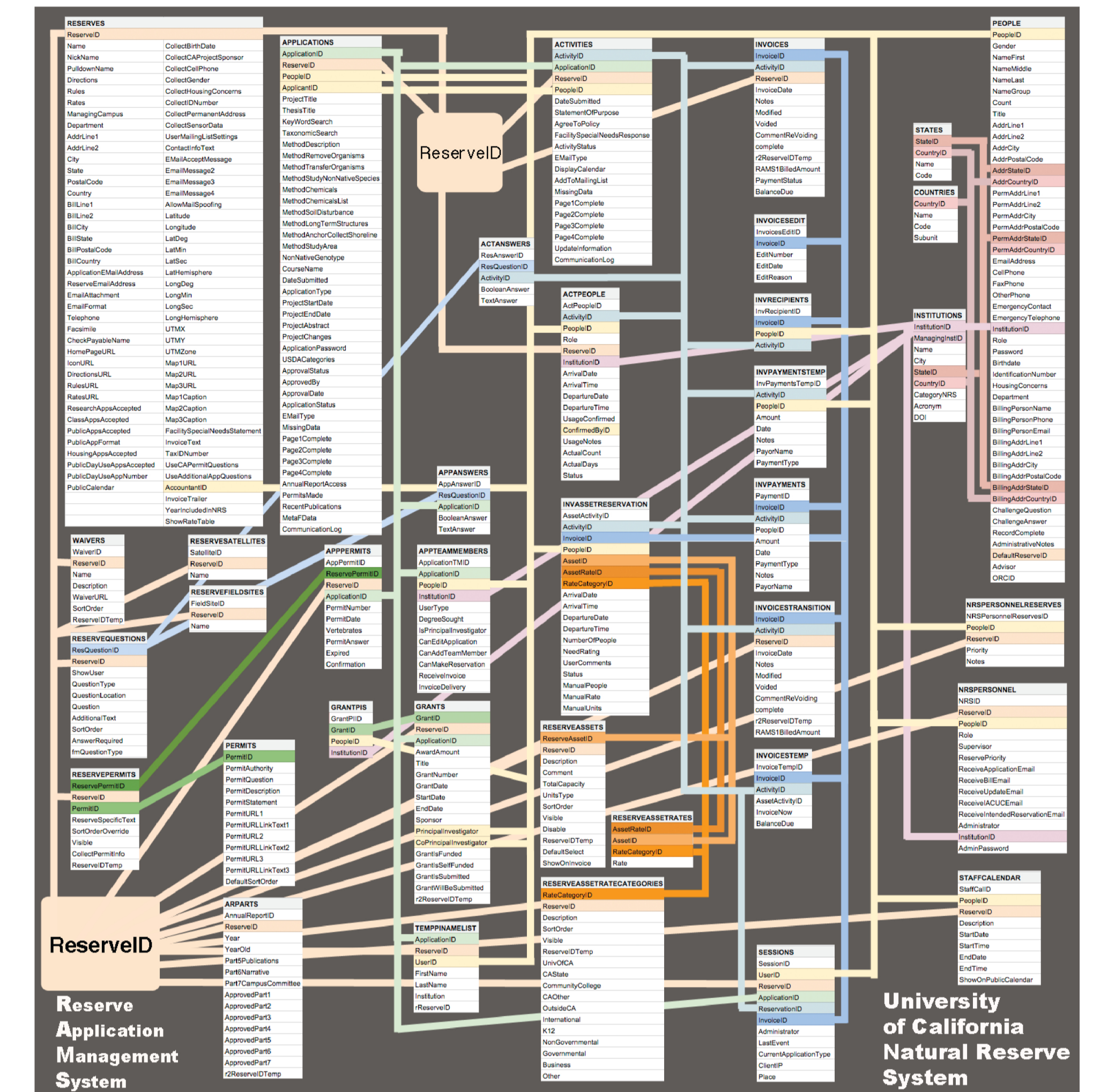   > 4,500 Class Use Applications

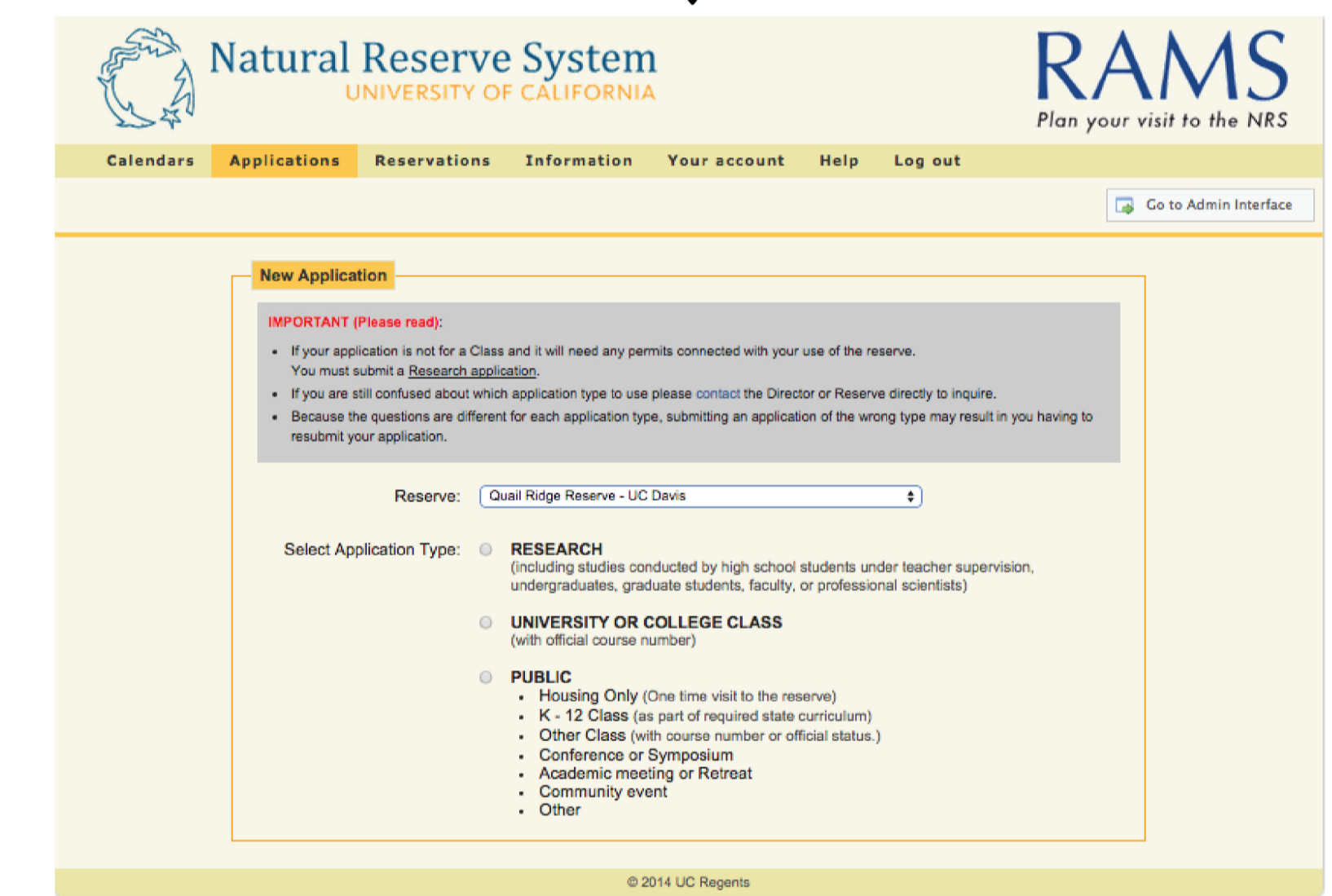### 2005 - 2015 Annual Use Statistics for Total Number of People and Days
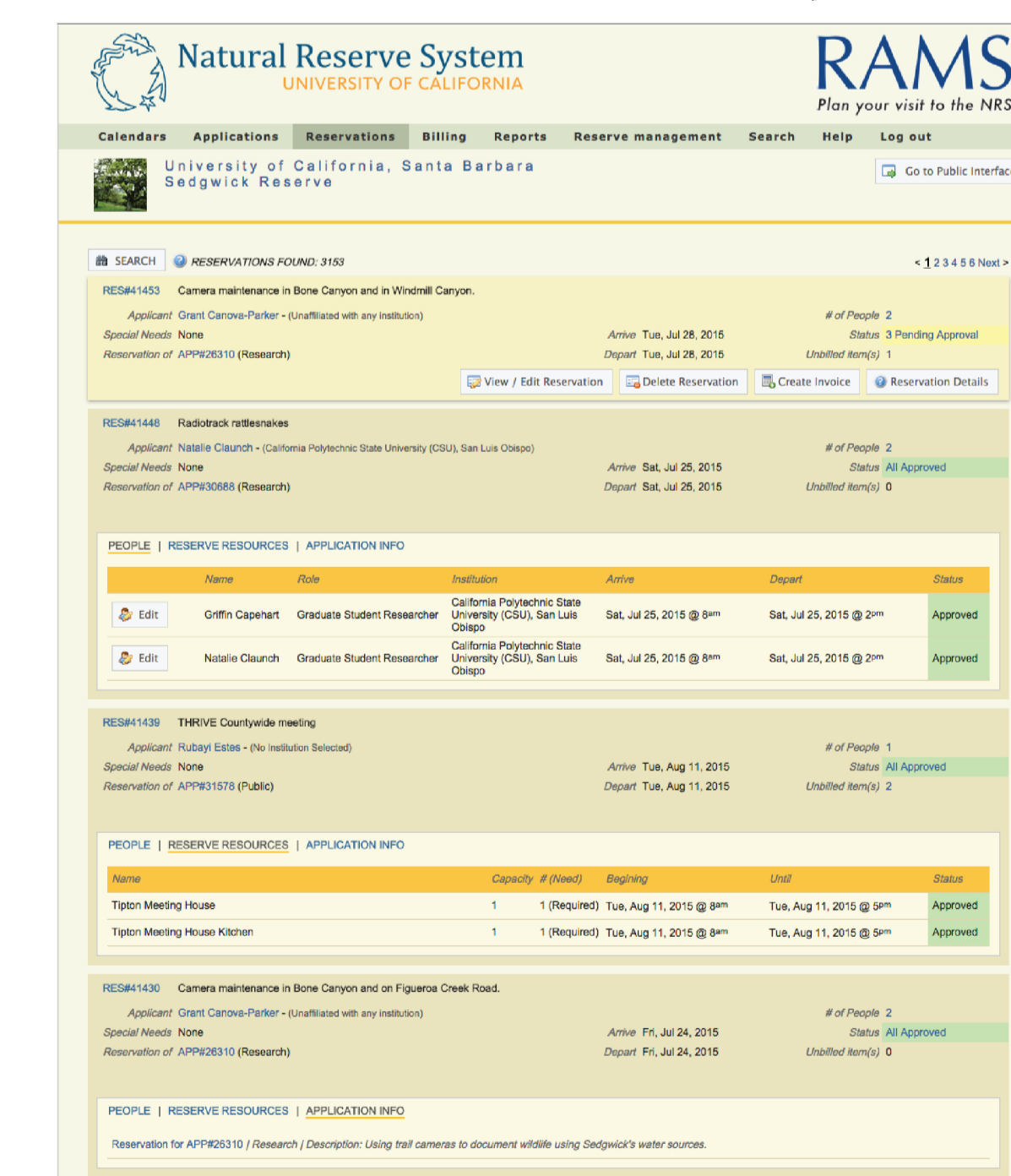

Grant Funding associated with work on NRS sites

RAMS MySQL database schema

University of California Natural Reserve System

Reserve Application Management System

ReserveID

LASSO SCRIPT INTERFACE

GUI WEB INTERFACE

RAMS PURPOSE:

- Collect data on the use of reserves

    - Group size

    - Purpose of visit

    - Details of research plan & impacts, class itinerary, public use

- Make management decisions about research, class and public use

    - A valuable tool for metadata collection and tracking metrics of use

    - Function as a single network with uniform interface, use guidelines and procedures

    - Allow easy collaboration between researchers

    - Export metrics and use data for grant proposals, administration

NATIONAL ACADEMIES OF SCIENCES:

ENHANCING THE VALUE AND SUSTAINABILITY OF FIELD STATIONS AND MARINE LABORATIES IN THE 21ST CENTURY

NEED:
    Document use and collect metrics to address performance and successes
    Generate reports for administration, private sector, and state/federal agencies

RECOMMENDATIONS:
    Develop common metrics to measure performance and impacts
    Institutions need to support documentation of field stations contribution to nation's research and education enterprise
    Funding is needed to support these efforts

UCNRS RAMS
    RAMS was singled out as an outstanding existing example that could achieve these goals
    Applications generate core meta data about research and projects on reserves
    Reservations generate core metric data about use; number of people, period of use, facilities needed

ANNUAL USE STATISTICS

RESERVATION MANAGEMENT

Map labels:
Angelo Coast Range
Jenny Pygmy Forest
Sagehen Creek Field Station
Chickering American River
McLaughlin
Quail Ridge
Stebbins Cold Canyon
Jepson Praine
Bodega Marine
Valentine Camp
Sierra Nevada Aquatic Research Laboratory
Yosemite Field Station
White Mountain
Merced Vernal Pools Grassland
Blue Oak Ranch
Año Nuevo Island
Younger Lagoon
Fort Ord
Hastings
Landels-Hill Big Creek
Kenneth S. Norris Rancho Marino
Sweeney Granite Mountains
Sedgwick
Coal Oil Point
Carpinteria Salt Marsh
Burns Piñon Ridge
Santa Cruz Island
Box Springs
Motte Rimrock
James San Jacinto Mountains
Boyd Deep Canyon
Stunt Ranch Santa Monica Mountains
San Joaquin Marsh
Steele/Burnand Anza-Borrego
Dawson Los Monos Canyon
Scripps Coastal
Elliott Chaparral
Kendall-Frost Mission Bay Marsh