### Part 1. Reserve Use Data

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### Part 2. Reserve Users' Affiliation

**University of California**
- Sedgwick Reserve
- University of California, Berkeley
- University of California, Davis
- University of California, Irvine
- University of California, Los Angeles
- University of California, Office of the President
- University of California, Riverside
- University of California, San Diego
- University of California, Santa Barbara
- University of California, Santa Cruz

**California Community College**
- Cuesta College

**California Community College**
- Riverside Community College
- Santa Barbara City College

**California Other College or University**
- University of Southern California (USC)
- U.S. - University or College Outside of California
- Cornell University
- Duke University
- Pacifica Graduate Institute

**Other U.S. College or University**
- Green Mountain College
- Hendrix College
University of Maryland, College Park  
University of Nebraska  
University of Tennessee  
International University or College  

International College or University  
ETH Zurich  
Swiss Federal Institute for Forest, Snow and Landscape Research  
The University of Queensland  
University of Mainz  

K-12 Education  
Dunn School  
K-12 Schools Los Olivos  
K-12 Schools Oxnard  
NatureTrack Foundation  
Santa Ynez Valley Charter School  

Non-Governmental Organization or Non-Profit Entity  
Bodhi Path  
California Native Plant Society  
California Student Sustainability Coalition  
Fund for Santa Barbara  

Non-Governmental Organization  
Land Trust Santa Barbara County  
Las Cumbres Observatory Global Network  
Santa Barbara Audubon Society  
Santa Barbara Botanic Garden  
Santa Barbara County Search and Rescue  
Santa Barbara Sage Hens  
Santa Ynez Valley Natural History Society  
Wheeling Warriors Central Coast Cycling  
Wilderness Youth Project  
Woodstock Property Owners Assoc.  

Governmental Agency or Entity  
Channel Islands National Marine Sanctuary  
Oak Ridge National Laboratory  
Special Technologies Laboratory  
US Geological Survey  

Business Entity  
Angels Foster Care of Santa Barbara  
California Bee Company, LLC  

Individual or Other Entity  
Ecology Global Network  
Independent Journalist  
Natural History Museum of Santa Maria  
Royal Botanic Gardens, Kew
Part 3. Use by Instructional Groups

**University of California, Santa Barbara, CA:**

1. BIOL CS 101, Walking Biology, Claudia Tyler, May, 2014
3. Biological Community Survey and Analysis, Frank W. Davis, April, 2014
5. Watershed Analysis, Derek Booth, Jan., 2014
6. ES/EEMB 119, Ecology & Management of California's Wildlands, Nicole Molinari, October, 2103
7. Soil Genesis, Samuel Prentice, November, 2013
8. Physics, Philip M. Lubin, October, 2013

**Green Mountain College, Vermont**

1. Biology 3072 Field Course, James H. Graves, March 2014

**Santa Barbara City College, Santa Barbara, CA**

1. Methods in Field Biology, Adam K. Green, March, 2014

**Pacifica Graduate Institute, Santa Barbara, CA**

## Part 4. Current Research

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<tr>
<th>Principal Investigator</th>
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<td>Jon Porcher</td>
<td>Wallace Kuehn</td>
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<td>Cornell University</td>
<td>Reproductive ecology of Quercus lobata</td>
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<td>Ashley Arnett</td>
<td>University of Nebraska</td>
<td>Sample Latent Choice Plasticity in Multiple Intrins and Extrinsic Factors</td>
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<td>Regine Clairen Beck</td>
<td>Sean Maxer</td>
<td>University of Miami</td>
<td>Pollination ecology in valleys</td>
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<td>Jennifer Hillier-Elstebrook</td>
<td>Jonathan Levine</td>
<td>University of California, Santa Barbara</td>
<td>University of Toronto</td>
<td>California annual serpentine communities</td>
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<td>Arika Krause</td>
<td>Carlos Antonio</td>
<td>University of California, Santa Barbara</td>
<td>Google University of Minnesota</td>
<td>Two Cities</td>
<td>Nutrient Network: A Cross-Site Investigation Of Biomining Control Over Herbaceous Plant Community Dynamics And Ecosystem Function</td>
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<td>Phoebe Mahall</td>
<td>Shelly Cole</td>
<td>University of California, Santa Barbara</td>
<td>Santa Barbara County Oak Project</td>
<td>The role of water stress (drought) in oak seedling and sapling survival and performance at Sedgwick Reserve</td>
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<td>Phoebe Mahall</td>
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<td>Andy MacDonald</td>
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<td>Grant Canova-Parker</td>
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<td>Using trail cameras to document wildlife using sedgwick’s water trough</td>
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<td>Patricia Holden</td>
<td>Joshua Schlueter</td>
<td>Stefano Monnig</td>
<td>Tori Schuster</td>
<td>University of California, Santa Barbara</td>
<td>Control of C4 photosynthesis: physiology vs. physics</td>
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<td>Herbert Schneider</td>
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<td>Blair Haggarty</td>
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<td>Plant phenology at Sedgwick Reserve</td>
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<td>Eric Snowans</td>
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<td>Brenda Jones</td>
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<td>Nina Bingham</td>
<td>Oliver Chadwick</td>
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<td>Jennifer Eng</td>
<td>Oliver Chadwick</td>
<td>Samuel Prentice</td>
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<td>Assessing scale-dependent soil processes dynamics with high-resolution GCM</td>
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<td>Elza Clanden</td>
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<td>Bruce Poulk</td>
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<td>Paddy Woodworth</td>
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<td>Alexander Wall</td>
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<td>Thomas Wohlgemuth</td>
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<td>Gene Caples</td>
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<td>Ian McKenna</td>
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<td>Wolf Kuehn</td>
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Part 5. Publications


PART 6. Narrative

PART I: CURRENT RESEARCH

Thirty-seven (37) research projects were handled by the Reserve staff during the fiscal year. Seven (7) projects were new and 22 were ongoing. Eight on-going or one-year projects were completed by the end of the reporting period. The level of research in FY 2013-14 was consistent with the 10-year average of 39 projects per year but six (6) projects fewer than the previous year. A listing of the research can be found in Part IV: Current Research FY2013-14.

In 2013-2014, researchers spent 2935 days working on 37 projects for an average of 79 days per project. As in previous years, the majority of research conducted at Sedgwick was done during day-only visits. UCSB researchers had both the most projects (18 projects and 1169 days of use). The highest level of use was contributed by the Los Cumbres Observatory Telescope Network, which reported use of the BOS telescope on 90% of viewable nights (1263). This use was largely by remote operation of the BOS observatory. Researchers from other UC campuses were the second most frequent users with 7 projects and 69 user days. The remaining projects were completed by Out of state universities (5 projects, 47 user days), and International universities (4 projects and 27 user days).
Of those applications that reported grant support information, 68% of the projects (25) received a combined total of $4,895,806 in grant funding for the fiscal year. Thirty-eight (38) publications were published during 2013-14 using Sedgwick data. The large number of publications can be attributed to using better search functions using Google Scholar and Zotero publication management software and lag time additional research projects conducted at Sedgwick in FY 2012-13.

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| USE       | User days | 1169        | 69                | 27              | 47          | 1623   | 2935   |

| REVENUE               | Facility & vehicle use | $863.10 | $356.23 | $203.56 | $307.37 | $152.67 | $1,883.10 |

PART II: UNIVERSITY LEVEL INSTRUCTION

Reserve use for college class instruction decreased by one from the previous year. Thirteen (13) classes were held at the reserve in 2013-14 compared to 14 classes in 2012-13, and the number of students who attended increased from 166 in 2012-2013 to 194 in 2013-14. Of the 13 classes held at the reserve in this reporting period, nine (9) were from UCSB comprising five (5) instructors, 159 students and 39 others, one (1) from Green Mountain College, Vermont comprising two (2) instructors and 13 students, and two (2) from Pacifica Graduate Institute in Santa Barbara with one instructor and 46 students.

PART III: PUBLIC OUTREACH

Public outreach continued to be active on the reserve during the fiscal year. There were 3399 users totaling 4488 user days.
Public Use Groups:
The field station was used by forty-nine (49) groups during the fiscal year including Woodstock Home Owners Association, the Wilderness Youth Project, The Fund for Santa Barbara Board, Nature Track Foundation, Santa Barbara County Search and Rescue, the Sage Hens, California Native Plant Society, US Geological Survey, and Las Cumbres Observatory Global Telescope.

The Santa Ynez Valley Natural History Society hosted two (2) public events at the reserve: a public viewing of the movie “Santa Ynez River Wilderness” in Tipton Meeting House Clarke Hall (125 attendees); and a lecture retired California State Park ranger and author of “Water and the California Dream,” David Carle (55 attendees).

Walking Ecology Public Lecture Series:
The “Walking Ecology” lecture series resumed in October and was well attended by the public and docents, with an average of 45 attendees per lecture. The topics in the seven (7) lectures this year included topics: Space Exploration; screening of “Greenfire: The Aldo Leopold Legacy;” Geology and the Arts; Ticks and Lyme Disease; Chumash Culture; Effects of Fog on plants at Sedgwick Reserve; and Herpetology.

During the year, over one thousand visitors learned about the Reserve’s rich cultural history and had opportunities to see historical preservation in action. The Walking Ecology lecture series started out with Carol Gibbon’s well attended Reserve history talk and tour of the field station and barn; 165 guests came to the annual barn dance. 500 elementary school students toured the barn in search of barn owls and to learn about ranching life in early California. Seven (7) Midland high school students participated in an equestrian overnight campout in the barn. Two women’s riding groups (the Sage Hens and the Fillies) used the barn as a staging area for their organized rides, which brought nearly sixty (60) equestrians onto the Reserve in FY2013-14. Stops at the barn, art studio and ranch house are part of every field station tour, which were given to 46 groups (225 people) during the fiscal year.

K-12 Program:
K-12 education continued at the Reserve, facilitated by “Nature Track.” Ten (10) classes visited this fiscal year compared to 11 groups in 2011-2012. Approximately five hundred and eight (508) students from Santa Barbara and Santa Ynez Valley schools visited the reserve for nature education activities.

Public Hikes:
Docent-led interpretive public hikes began in November and continued through May for a total of seven hiking days in this fiscal year. Overall, three hundred forty-five (345) hikers participated in the public hikes.

Docent Activities:
Throughout the 2013-14 year, docents participated in a number of activities totaling 1,173 user days, including seven (7) Walking Ecology lectures, the Lake Cachuma Christmas Bird Count, eleven (11) docent training lectures, one docent communication meeting, seven (7) public hikes and several private hikes for retreats of various organizations. Additionally, docents worked in the native plant nursery, planted native plants and weeded around the field station, maintained hiking trails, and completed weekly bird counts. Docents represented the reserve with a booth in the Los Olivos “Day in the Country” event in October 2013.

The Sedgwick Reserve Phenology Project, a part of the larger California Phenology Project, is now in its 3rd year. Fourteen (14) dedicated Sedgwick docents/phenologists recording data along an established phenology trail, consisting of 24 plants of 6 different species: Valley Oak, California Live Oak, California Buckwheat, Blue Elderberry, Coyotebrush and Toyon. Andy Lentz, Sedgwick docent, created a new phenology manual having
higher quality photographs than previously provided. The improved manual assists docents with recording data. Phenologists’ user days totaled over 676 for the fiscal year.

Five (5) docents completed the California Naturalist certification program offered through the Santa Barbara Botanic Garden. Their “Capstone” projects enhance native plant knowledge and restoration efforts at Sedgwick reserve, wildflowers of the reserve, and a slideshow presentation of the reserve pond’s denizens and cattail eradication activities.

A valley oak restoration project commenced in the winter quarter. A volunteer group of fifteen docents planted one-hundred (100) valley oak seedlings and acorns, utilizing traditional planting methods as well as using Groasis Waterboxxes, a self-watering device. Six months into the project, there was a 75% survival rate.

PART IV: STEWARDSHIP

It was an below average rainfall year for the Reserve, with the seasonal rainfall total of 7.64 inches being recorded by the DRI weather station located on the ridge north-west of the Tipton Meeting House. The last 3 winters have been the driest recorded in California history. The Reserve’s aquifer was measured by the USGS in March 2014 to be 28 feet below surface (in wet years the aquifer reaches the surface, but averages 20 feet below surface. The USGS has been sampling the aquifer since 1950 (64 years).

Various projects were completed this fiscal year: Depredation efforts yielded 22 feral pigs using traps on watering sources (carried out by reserve staff and 1 volunteer). Boy Scout troop 42 out of Buellton replaced a spring box at Cuckoo Springs, a project supervised by a Sedgwick steward. In fall quarter UCOP one-time critical needs funds were used to hire a backhoe service to extract cattails from the pond. The project took five days to complete. Docent volunteers helped clean up the reed remnants floating in the pond. The rest of the year, two docent volunteers continued to remove cattails sprouting from the banks.

Management Plan for Heirs Parcel (farming and grazing) written

Farm and grazing leases canceled. New agreements will be written when drought ends.

Weed management: low weed year due to drought; no goat grass found.
Despite 2013 and 2014 being excellent acorn years the reserve is seeing a significant increase in the number of blue and Valley oaks dying in place and falling over in wind events. In 2014 two massive Valley Oaks fell, one in Windmill Canyon and one near the Director’s residence.

Tricolored blackbird monitoring; camera on pond; pond turtles; bagrada bug invasion.

DEVELOPMENT

Fiscal year 2013-14 was a banner year for fundraising at the Reserve, capped off by a $2 million pledge from UCSB alumna Linda Duttenhaver whose support for Sedgwick has been transformational over the last six years. Linda has funded outreach programming for the last several years and in 2008 funded the renovation of the barn. Her 2014 gift will make possible the renovation of the ranch house projected to be completed during fiscal year 2016. Also during the fiscal year, discussions were begun with this major donor about her estate planning; these will continue in earnest after the ranch house is completed.

As in past years, several hundred Sedgwick friends and donors were personally solicited with snail mail letters and return envelopes in early December. An additional 2000+ people who receive the monthly newsletters received an online solicitation. Docents, regular users and neighbors of the Reserve continue to be the most consistent donors to the Reserve. (Public hikes elicit on average, about $150 in voluntary contributions.) About a dozen of Sedgwick’s donors whose gifts regularly amount to $5k and above were solicited individually and in person for special projects and initiatives. Each year a few more donors and prospects are included in these stewardship, cultivation and solicitation activities which include small dinners held at Tipton House, usually coinciding with Ms. Duttenhaver’s visits. Including all gifts for current use and capital projects, total support in FY14 was approximately $2,125,000. Additionally, approximately $110,000 was contributed in fiscal year 2013-14 to the Sedgwick operating endowment.

Events such as the public lectures and the annual Barn Dance, held in July 2013, continue to provide excellent venues for introducing newcomers and potential donors to the Reserve. Planning began in final quarter of the fiscal year for the Fifth Annual Barn Dance, a highly anticipated event.

FACILITIES

During the fiscal year four long-running Prop 84 (State Wildlife Conservation Board) projects were completed: the pole barn adjacent to the historic barn was converted to a maintenance shop; electrical service was moved to a single enclosure in the parking area, lines buried within the field station and service upgrade; waterlines and a second hydrant was constructed to bring potable water to all field station buildings; and roads and parking areas were upgraded within the field station area. Total cost for these WCB funded infrastructure improvements was $960,000.

Annual vehicle maintenance was completed on all reserve vehicles. The main waterline coming from the well was replaced. Stewards cleaned up the surplus barn and also moved everything from the pole barn in preparation for it’s complete remodel. Other projects completed by stewards were observatory trail restoration, mending fences and gates, rodent control and designing frost covers for fire sprinkler backflow devices, and native plant restoration.

Facility rentals generated $11,020.70 in invoices.
ADMINISTRATION

In the fiscal year, Kate McCurdy reached her 8th anniversary as director of the reserve. Assisted by two part-time (40% time) outreach coordinators, the director managed multiple reserve users including researchers (556 users and 2624 user days); university level classes (258 users and 372 user days); K-12 groups (537 users and 586 user days); and docents, volunteers, NGO groups, and other public users (2,736 users and 3,580 user days).

The office staff generated weekly news bulletin sent to Sedgwick administrators, docents and volunteers. Kate created a quarterly newsletter to the general interest list (over 3,000 subscribers).

Reserve maintenance continued to be supported by a crew of part-time stewards Valentin Barbosa-Navarro, Gloria Larios, George Granger, and Brian Guererro. During the fiscal year, Eric Massey was hired into a full time position.
Part 7. NRS Campus Committee Roster

Sally Holbrook, Committee Chair*; Environmental Studies and Ecology, Evolution and Marine Biology
Patricia Holden, Director, UCSB NRS*; Bren School
Susan Swarbrick, Associate Director*; UCSB Natural Reserve System
*Ex Officio members serve on the Committee by virtue of their position with the NRS (Director, Associate Director, Committee Chair, Faculty Advisor)

Sedgwick Reserve
Carla D' Antonio, Faculty Advisor*; Environmental Studies and Ecology, Evolution and Marine Biology
Jennifer King, Representative; Geography

Community Representatives
Chet Work, Land Trust of Santa Barbara County
Mary Meyer, California Department of Fish and Game
Eamon O'Byrne, The Nature Conservancy

Student Representatives
Marissa Bills, Undergraduate Representative; Associated Students
Nate Emery, Graduate Representative, Graduate Student Association