

University of California



# Advisory Committee Meeting

March 17, 2004

UCSD Faculty Club



# Welcome

- Introductions

- Members

Dan Dawson (NRS)

Kem Cook (LLNL)

Sam Traina (SNRI-UCM)

UCLA? UCSC?

- Scheduling next meetings

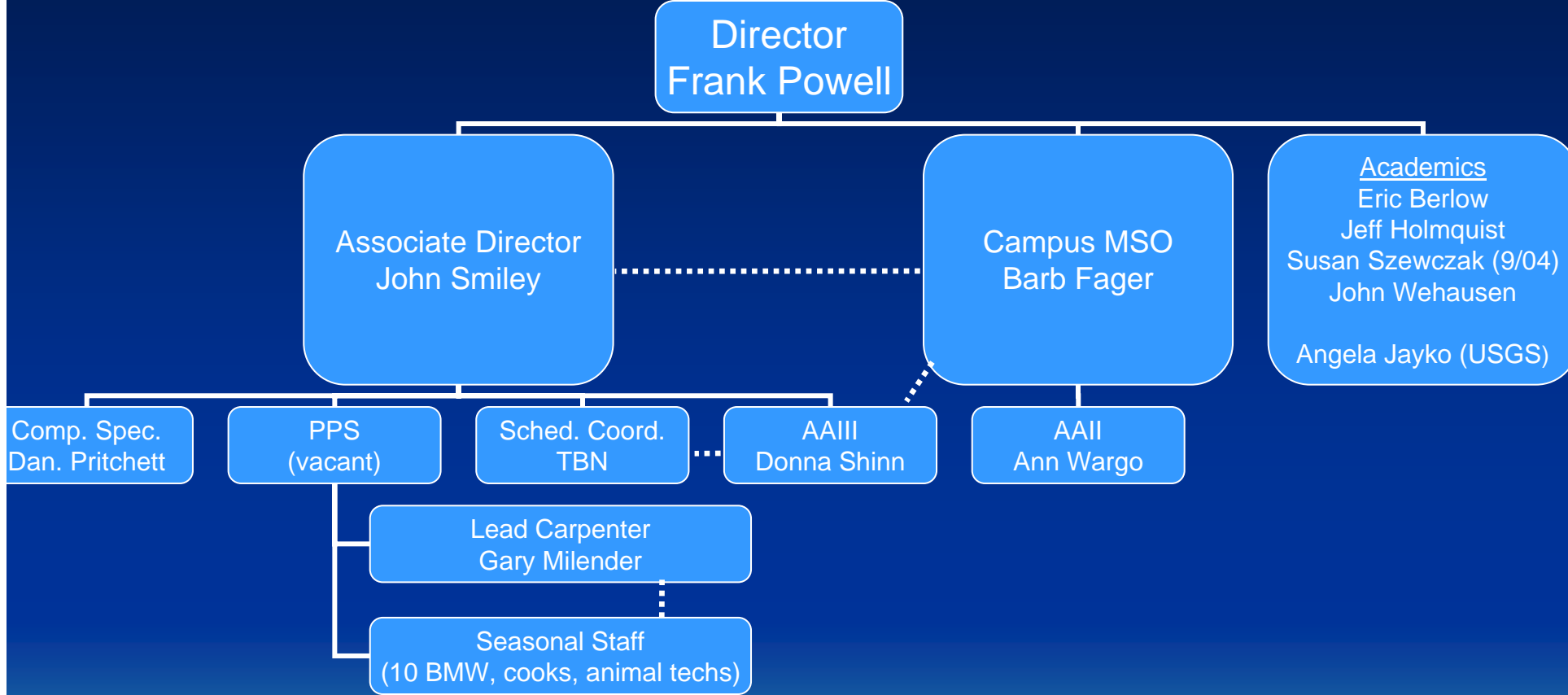


# Budget – NOT sustainable

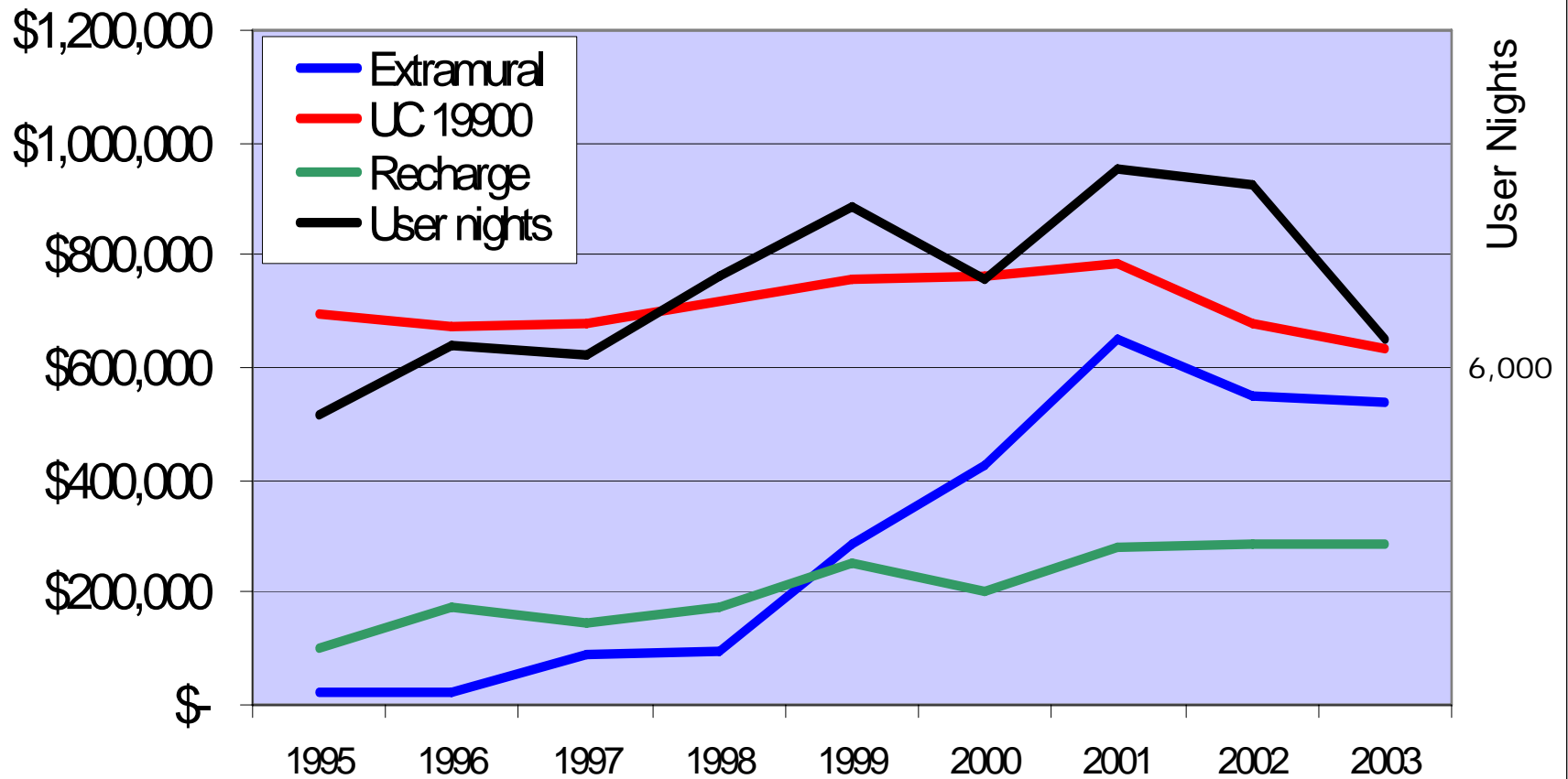
- UC appropriation (20% inflation loss since 1995; 20% decrease FY02/03 + 03/04)
- User fees (already increased)
- Staff (already downsized)
- FTE salary savings (no faculty grants; FP, JS and BF)
- Development with Dan Aldrich (UCOP)
- Spend Gifts & Endowments?
- Federal funding for infrastructure?  
NSF - FSML, IGERT partners  
NIH – Animal housing, instrumentation
- Indirect cost recovery?
- Decrease operations (Crooked Creek, food services?)



# WMRS Organization Chart 2004



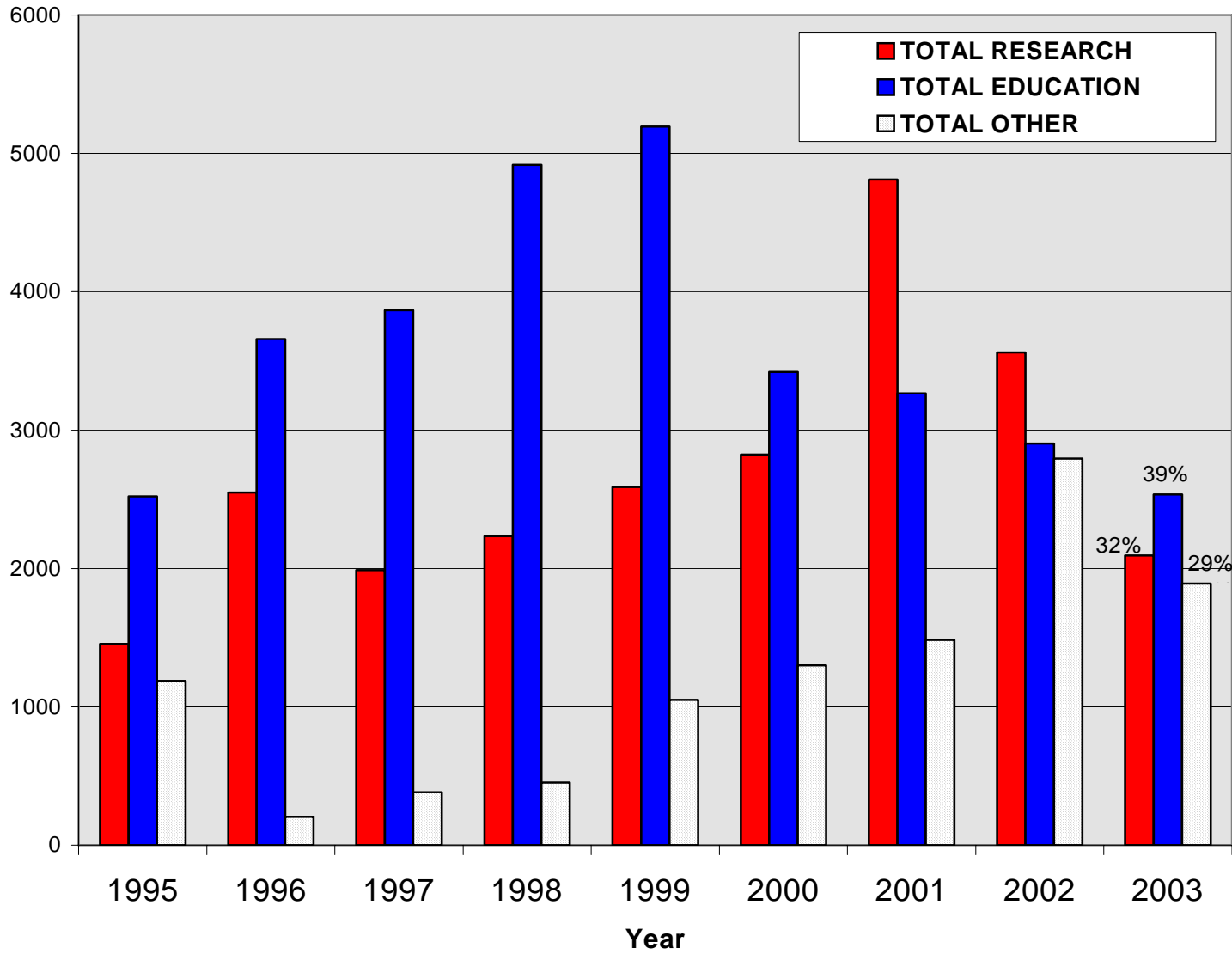
# WHITE MOUNTAIN RESEARCH STATION USE AND INCOME (1995-2003)



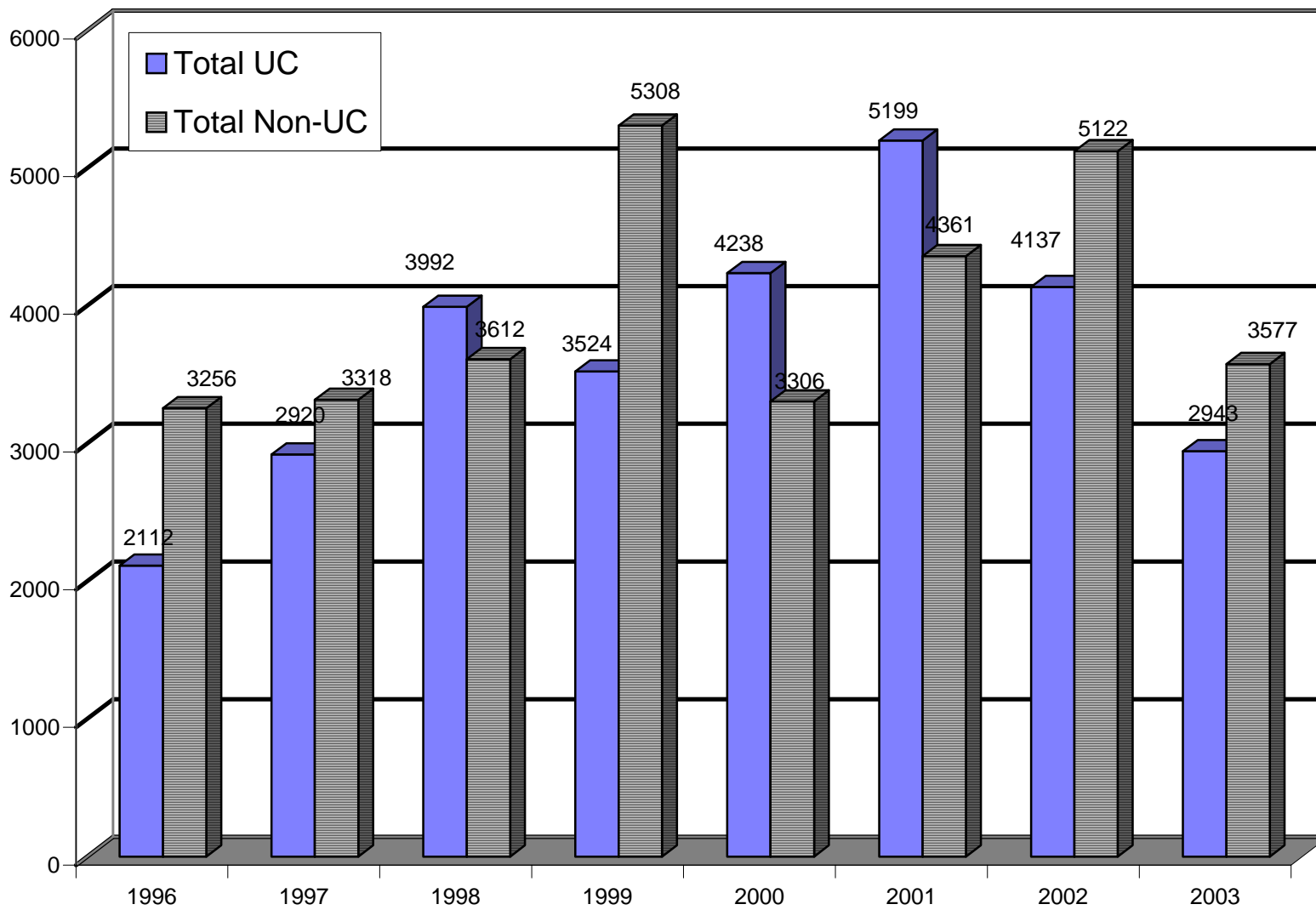
## White Mountain Research Station

<b>Summary of Usage, Calendar Year</b>	<b>2002</b>	<b>2003</b>
<b>Number of users</b>	<b>2,763</b>	<b>2,480</b>
<b>Number of user nights, all sites</b>	<b>9,259</b>	<b>6,520</b>
<b>Number of institutions represented</b>	<b>102</b>	<b>62</b>
<b>Research user nights</b>	<b>3561 (38%)</b>	<b>2095 (32%)</b>
<b>Education user nights</b>	<b>2927 (32%)</b>	<b>2534 (39%)</b>
<b>Other user nights</b>	<b>2771 (30%)</b>	<b>1891 (29%)</b>
<b>UC User Nights</b>	<b>4137 (45%)</b>	<b>2943 (45%)</b>
<b>Non UC User Nights</b>	<b>5122 (55%)</b>	<b>3577 (55%)</b>
<b>Owens Valley Laboratory user nights</b>	<b>7822 (84%)</b>	<b>5090 (78%)</b>
<b>Crooked Creek user nights</b>	<b>882 (10%)</b>	<b>909 (14%)</b>
<b>Barcroft user nights</b>	<b>555 (6%)</b>	<b>521 ( 8%)</b>
<b>Campus most represented:</b>	<b>WMRS (1,897)</b>	<b>UCD (1,276)</b>
<b>Discipline most respresented:</b>	<b>Earth (2,840)</b>	<b>Earth (2,528)</b>

# Research, Education and Other User Nights

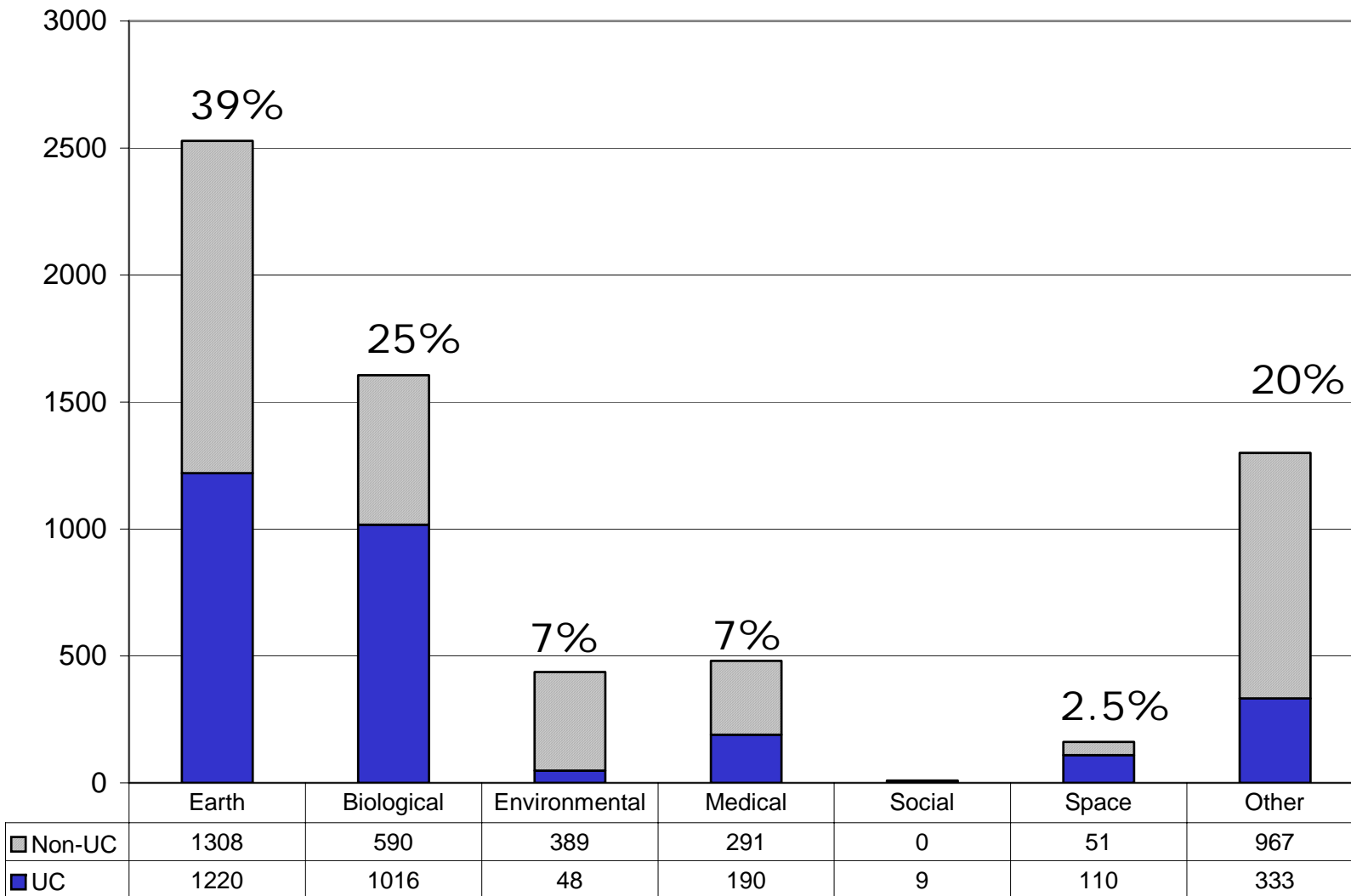


**UC vs. Non-UC use, in User-nights**





## UC vs. Non UC Users by Discipline



## Extramural funding to WMRS

EXTERNAL AWARDS	AGENCY	PI	1999/2000	2000/01	2001/2002	2002/2003	2003/2004	2004/2005	Total Direct-('94-'05)
Minority Postdoc.	NSF	Aguilar	26,392	26,392	25,000	25,000			102,784
REU Site	NSF	Berlow (Morrison)			69,156	71,569	74,079		214,804
Sagebrush Dynamics	NSF	Berlow	37,907	40,302					115,373
Mtn. Meadow Assess.	CDF&G	Berlow					38,101	38,263	76,364
Ecol. Assess. Wild. Plan I	USGS	Berlow & S.		15,873					15,873
Meadow fragmentation	YOSE.	Holmquist			32,326	34,389			96,098
Inver. Assessment	SEKI	Holmquist					21,739		21,739
Fresno Kangaroo Rat	USN	Morrison			40,000	67,047			107,047
Mtn. Meadow Assess.	CDF&G	Morrison				35,956	36,771		72,727
Willow Flycatcher survey	USGS	Morrison			40,014				40,014
Willow Flycatcher survey	USFS	Morrison			39,682				39,682
FSML	NSF	Powell		99,670					99,670
FSML (supplement)	NSF	Powell				38,173			38,173
SICB Symposium	NSF	Powell							2,920
SERG: acid-base	NSF	J. Szewczak		50,580					50,580
Collaborative Res.	USGS	S. Szewczak							2,406
Eisenhower Teach	Eis./CPEC	S. Szewczak			105,383	105,513	102,203		313,099
GIS Clearinghouse	USGS	S. Szewczak							40,000
McAfee Env. Assess.	USFS	S. Szewczak							5,760
Metadata	USGS	S. Szewczak		7,682					7,682
Rec. impact on meadows	USGS	S. Szewczak			100,000				100,000
ROLE: Comp.-based Inquiry	NSF	S. Szewczak			7,509	7,909	8,391		23,809
Eco. Assess. Wild. Plan II	USGS	S. Szewczak		23,810					23,810
Bighorn Sheep	CDF&G	Wehausen							174,572
Bighorn Sheep	CDF&G	Wehausen	222,313	163,384	145,068				530,765
Bighorn Sheep	CDF&G	Wehausen				103,630	105,287	95,970	304,887
<b>TOTAL</b>			<b>286,612</b>	<b>427,693</b>	<b>604,138</b>	<b>489,186</b>	<b>386,571</b>	<b>134,233</b>	<b>2,620,638</b>

## UC classes at WMRS in 2003

UC CLASSES	COURSE	#ATTENDEES	#DAYS
Berkeley	Fluvial Geomorphology: Principles and Applications	45	5
Davis	GEL 103: Field Geology	28	1
Davis	GEL 110: Summer Field Course in Geology	24	42
Davis	ECL 200A: Principles in Ecology	47	3
Los Angeles	ESS 103A: Igneous Petrology	9	3
Riverside	TBD	12	1
Riverside	SWSC 138: Soil Morphology & Classification	14	1
San Diego	SIO 249: Landscape Evolution	15	5
San Diego	BIO 850: Using SonoBat for Non-invasive Bat Monitoring	14	2
<b>UC-SUBTOTAL 1558</b>		<b>208</b>	<b>63</b>
Santa Cruz	Experimental research campaign w/Valentine Reserve	12	1
Santa Cruz	EDP 032M00: Landscape-Mindscape (summer session)	13	6
Santa Cruz	EDP 032M01: Landscape-Mindscape (fall session)	15	6
<b>UCX-SUBTOTAL 180</b>		<b>40</b>	<b>13</b>
<b>TOTAL UC Classes</b>		<b>248</b>	<b>76</b>
<i>1738 Total # of User Days</i>			
WMRS-sponsored PROGRAMS	Campus	#ATTENDEES	#DAYS
Research Opportunities for Undergraduates	UCSD/WMRS- Bishop	8	70
Advisory Committee Meeting	UCSD/WMRS- Bishop	7	4
IACUC Inspection	UCSD/WMRS- Bishop	6	1
Physiological Ecology Meeting	UCSD/WMRS- Bishop	35	2
Eastern Sierra Watershed Project	UCSD/WMRS- Bishop	35	3
Fall Lecture Series	UCSD/WMRS- Bishop	40	0
Open House/Open Gate	UCSD/WMRS- Bishop	200	0
<b>Total UC Programs</b>		<b>331</b>	<b>80</b>
<i>769 Total # of User Days</i>			

## Non-UC classes at WMRS in 2003

<b>OTHER UNIV. &amp; COLL. CLASSES, CONFERENCES, FIELD TRIPS AND WORKSHOPS:</b>			
<b>INSTITUTION</b>	<b>COURSE</b>	<b>#ATTENDEES</b>	<b>#DAYS</b>
Brigham Young University	TBD	14	10
CSU- Los Angeles	TBD	14	0
CSU- Los Angeles	TBD	12	2
CSU- Stanislaus	TBD	9	1
Cal Tech	TBD	15	2
Cal Tech	TBD	24	1
Central Washington University	Geology 210: Field Course in Geological Methods	29	0
CSU Sacramento	Geology 110B: Structural Geology	13	0
Diablo College	H149: Natural Landscape Interpretation	12	0
Foothill College	TBD	17	2
Indiana University	Volcanoes of the Eastern Sierra Nevada	17	4
L.A. Valley College	Geography 1 & 15: Physical Geography	15	0
Pasadena City College	Geology 30: Field Geology of the Owens Valley	19	1
Pomona College	TBD	12	5
Rice University	Igneous & Metamorphic Petrology	13	3
Riverside Community College	Geology 31: Regional Field Geology	20	3
Santa Monica College	Geography 35F: Geography Field Studies	30	0
University of South Florida	GLV6739: Volcanology/Tectonics	10	2
University of Guelph	TBD	18	0
University of the Pacific	GEOS001: Soil, Water and War	12	1
<b>Total Non-UC Classes</b>	<b>1121 Total # of User Days</b>	<b>325</b>	<b>37</b>

## K-12 and Outreach at WMRS in 2003

<b>NON-UNIV. &amp; COLL. CONFERENCES, FIELD TRIPS AND WORKSHOPS:</b>			
<b>GROUP OR INSTITUTION</b>	<b>ACTIVITY</b>	<b>#ATTENDEES</b>	<b>#DAYS</b>
CA Dept of Fish & Game	Wilderness First Responder Course	11	10
Chevron Texaco	Corporate Structural Geology School	30	0
WMRS EB Supercourse	1999 Environmental Biology Course Reunion	10	2
Intn'l Quaternary Association	Field trip to study Sierran glaciations	43	1
Dorsay High School	TBD	9	2
Sierra South	Eastern Sierra Environmental Education	21	1
Eastern Sierra Audubon Society	Classroom use for monthly public lectures	30	0
Spellbinder Books	Classroom use "Water and the California Dream"	30	0
Bishop Rotary Club	A day in the White Mountains (fundraiser)	45	0
California Lichen Society	Lichen survey in the White Mountains	17	2
CA Native Plant Society	Amateur botanists field trip to Bristlecone Pine Forest	8	4
CA Native Plant Society	Classroom use for monthly public lectures	30	0
Community Action for Youth	"Every 15 Minutes" with local CHP & high school	12	1
East Bay Regional Parks	TBD	13	5
Sea Studios Foundation	TBD	3	3
Sierra Mountain Center	Wilderness First Responder Recertification Course	22	3
Sierra Mountain Center	Avalanche Awareness Level I	30	0
Anthropology Club of UCR	Study anthropology of the Great Basin Culture	6	2
Inyo County Services	Classroom use "Rural community development workshop"	10	0
USFS PSW Research Station	Climate symposium & 50th Bristlecone celebration	14	1
<b>TOTAL Non-UC Programs</b>	<b>46 Total # of User Days</b>	<b>394</b>	<b>37</b>

## MRU BUDGET REPORT, FY 02/03 (7/1/02-6/30/03)

	a) UCOP	b) Income/ Recharge	c) Extramural Funds	d) Gifts-Endow.	Total (a+b+c+d)
<b>I. Funding in 2002-2003</b>					
A. Carryforward from 2001-2002	\$38,932	\$69,239	\$48,812	\$152,072	\$309,055
B. Current Year Funding 02/03	\$637,351	\$0	\$501,906	\$15,723	\$1,154,980
C. Station Income/Recharge 02/03	\$0	\$285,423	\$0	\$0	\$285,423
D. Lightning-OP Insurance Reimbursemt	\$100,284	\$0	\$0	\$0	\$100,284
<b>Sub Total - Appropriations</b>	<b>\$776,567</b>	<b>\$354,662</b>	<b>\$550,718</b>	<b>\$167,795</b>	<b>\$1,849,742</b>
<b>II. Expenditures in 2002-2003</b>					
A. Campus (Administration)					
subtotal	\$91,954	\$0	\$0	\$0	\$91,954
B. Station (Research)					
subtotal	\$615,324	\$281,847	\$432,737	\$0	\$1,329,908
C. Other Functions					
Subtotal - Expenditures	\$10,748	\$7,102	\$18,814	\$695	\$37,359
D. Disbutions (xfers to other UC's)					
subtotal	\$52,005	\$0	\$0	\$0	\$52,005
<b>Sub Total - Expenditures</b>	<b>\$770,031</b>	<b>\$288,949</b>	<b>\$451,551</b>	<b>\$695</b>	<b>\$1,511,226</b>
<b>Balance</b>	<b>\$6,536</b>	<b>\$65,713</b>	<b>\$99,167</b>	<b>\$167,100</b>	<b>\$338,516</b>

## Budget expense details (MRU report)

	a) UCOP	b) Income-Recharge	c) Extramural Funds	d) Gifts-Endow.	Total (a+b+c+d)
<b>II. Expenditures in 2002-2003</b>					
<b>A. Campus (Administration)</b>					
1. Salary (Academic/Staff)	\$58,204	\$0	\$0	\$0	\$58,204
2. Benefits	\$25,633	\$0	\$0	\$0	\$25,633
3. Supplies/Equip./Travel	\$8,117	\$0	\$0	\$0	\$8,117
4. Other Expenses	\$0	\$0	\$0	\$0	\$0
subtotal	\$91,954	\$0	\$0	\$0	\$91,954
<b>B. Station (Research)</b>					
1. Salary (Academic/Staff)	\$333,809	\$0	\$174,299	\$0	\$508,108
2. Benefits	\$94,102	\$0	\$34,603	\$0	\$128,705
3. Supplies/Equip.	\$87,129	\$281,847	\$223,835	\$0	\$592,811
4. Other Expenses (Insurance reimbursement for lightening damage-UCOP Risk Mgmt)	\$100,284	\$0	\$0	\$0	\$100,284
subtotal	\$615,324	\$281,847	\$432,737	\$0	\$1,329,908
<b>C. Other Functions</b>					
1. Conferences & Travel	\$10,748	\$7,102	\$0	\$0	\$17,850
2. Advisory Committee(s)	\$0	\$0	\$0	\$695	\$695
3. Publications	\$0	\$0	\$731	\$0	\$731
4. Development	\$0	\$0	\$0	\$0	\$0
5. Director's Opportunity Funds	\$0	\$0	\$0	\$0	\$0
6. Other (specify) Liens	\$0	\$0	\$18,083	\$0	\$18,083
Subtotal - Expenditures	\$10,748	\$7,102	\$18,814	\$695	\$37,359
<b>D. Distributions to other UC's</b>					
Grants awarded - Faculty	\$45,000	\$0	\$0	\$0	\$45,000
Grants awarded -Graduate Students	\$7,005	\$0	\$0	\$0	\$7,005
Grants awarded -Other (specify)	0	\$0	\$0	\$0	\$0
subtotal	\$52,005	\$0	\$0	\$0	\$52,005
<b>Sub Total</b>	<b>\$770,031</b>	<b>\$288,949</b>	<b>\$451,551</b>	<b>\$695</b>	<b>\$1,511,226</b>

<b>WMRS budget list</b>			general funds		restricted funds	
line#	budget item	subtotals proj 03-04	projected 2003-04	new proj. 2003-04	projected 2003-04	new proj. 2003-04
<b>10</b>	<b>Campus office administration WMRSD01</b>					
20	Director		\$80,259	\$80,259		
30	Financial officer		\$51,877	\$57,855		
40	Administrative assistant		\$19,018	\$18,266		
45	Office assistant		\$4,270	\$2,000		
50	supplies and expenses		\$17,500	\$8,775		
60	administrative travel					
70	mini-grant travel					
<b>80</b>	<b>subtotal</b>		<b>\$172,924</b>	<b>\$167,154</b>	<b>\$0</b>	<b>\$0</b>
<b>100</b>	<b>Bishop station administration WMRBIS1</b>					
110	Associate Director		\$69,047	\$69,047		
120	Station administrator		\$40,531	\$36,763		
130	Scheduling coordinator		\$31,478	\$19,344		
140	Data manager		\$13,178	\$12,482		
150	Station technician		\$4,263	\$4,263		
160	Fiscal Assistant		\$8,097	\$6,816		
	communication services					
180	telephone		\$15,000	\$15,000		
190	internet (see FSML grant below)		\$8,000	\$11,600		
200	miscellaneous communications (postage & other)		\$2,000	\$2,000		
	licenses and permits					
220	OVL lease		\$7,200	\$7,200		
230	USFS special use permit		\$3,000	\$3,000		
240	miscellaneous permits		\$2,500	\$2,500		
250	miscellaneous services		\$600	\$600		
260	photocopy		\$400	\$400		
270	supplies		\$5,800	\$6,800		
	utilities					
300	electricity/OVL		\$57,000	\$27,000		
	electricity/BAR & CC (less winter estimate)			\$16,225		
310	propane		\$9,000	\$9,000		
320	miscellaneous other utilities (trash & dump fees)		\$3,500	\$3,500		
	travel		\$0	\$1,000		
330	office Equipment Replacement		\$0	\$0		
<b>340</b>	<b>subtotal</b>		<b>\$280,594</b>	<b>\$254,541</b>	<b>\$0</b>	<b>\$0</b>



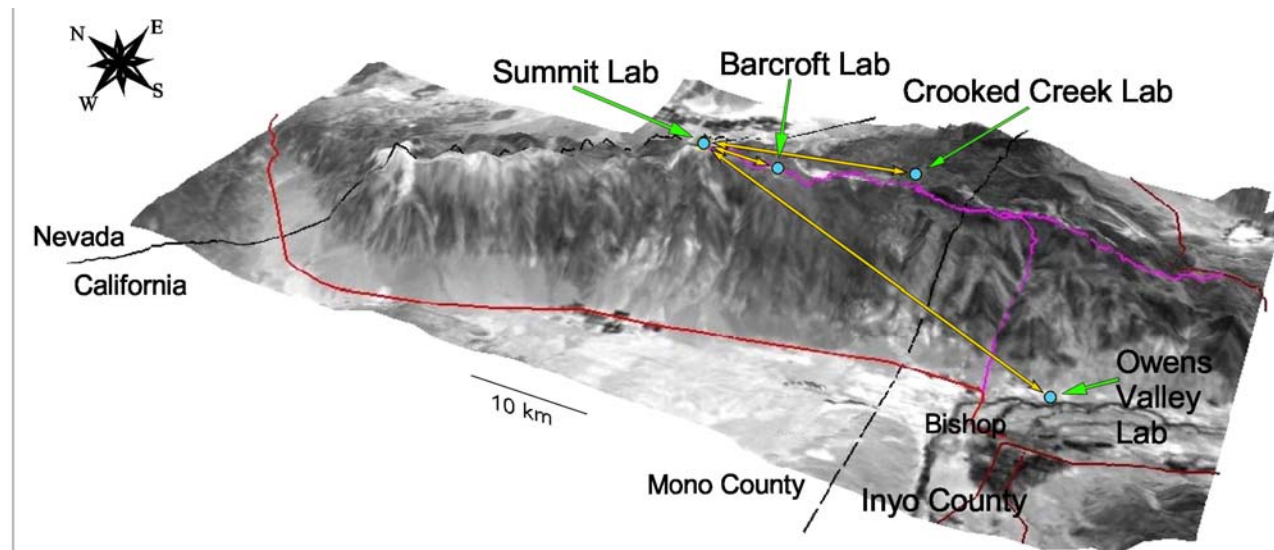
400	<b>Physical Plant WMRPPS1</b>					
410	Carpenter		\$48,634	\$51,634		
420	Auto Mechanic		\$31,026	\$7,505		
430	BMW - OVL (4-PTE)		\$29,777	\$29,777		
440	BMW- BAR (1.5-FTE)		\$19,209	\$19,209		
445	BMW - OVL (1-PTE) winter 7 mo.		\$8,400	\$8,400		
450	Overtime pay - physical plant		\$0	\$16,497		
460	building maintenance and repairs		\$8,000	\$10,000		
470	equipment maintenance and repairs		\$4,500	\$6,660		
480	grounds maintenance and repairs		\$21,000	\$17,000		
490	heating, plumbing, air conditioning, electrical		\$2,000	\$12,080		
500	kitchen refrigeration		\$300	\$800		
510	repair tools and supplies		\$1,500	\$3,500		
520	transportation		\$0	\$0		
	equipment			\$0		
530	<b>subtotal</b>		\$174,346	\$183,061	\$0	\$0
600	<b>Deferred maintenance</b>					
610	OVL					
620	BAR (+summit)					
630	CC					
640	<b>subtotal</b>		\$0	\$0	\$0	\$0
700	<b>Vehicle fleet services WMRVEH1</b>					
710	Auto supplies		\$7,000	\$7,000		
	Repair services		\$8,000	\$24,000		
720	Non-transportation vehicle repairs and maintenance		\$2,000	\$500		
730	Auto shop supplies and tools		\$500	\$1,500		
740	Fuel		\$14,000	\$14,000		
750	other expenses (medical gases & tank rental)		\$1,650	\$500		
	Auto Liability Insurance (chg'd to BIS1 & VEH1)		\$7,200	\$7,200		
	transfers/adjustments		\$0	\$0		
	travel		\$0	\$0		
	Vehicle replacement (Sno-Cat Quarterly Pmts)		\$27,344	\$27,344		
760	<b>subtotal</b>		\$67,694	\$82,044	\$0	\$0

<b>Kitchen and user services WMRGEN1</b>					
Senior cook 1		\$13,081	\$13,081		
Senior cook 2		\$23,892	\$23,892		
Senior cook 3		\$12,589	\$12,589		
Senior cook 4		\$13,338	\$13,338		
TOC + Overtime pay - housekeeping and food service		\$0	\$15,174		
Food and grocery expenses		\$40,000	\$40,000		
Cleaning supplies		\$11,000	\$5,000		
Kitchen supplies and service expenses		\$7,000	\$7,000		
Other miscellaneous expenses		\$7,000	\$2,000		
travel					
Equipment replacement					
<b>subtotal</b>		\$127,900	\$132,074	\$0	\$0
<b>Misc. expenses WMR000X</b>					
animal supplies and services		\$11,000	\$9,500		
event/conference/internship		\$11,500	\$7,300		
comm/postage & misc		\$200	\$200		
comm/internet (starband)		\$3,000	\$0		
lab improvements		\$5,500	\$0		
other and non-recharge expenses		\$500	\$0		
user supplies and services		\$14,000	\$1,000		
transfers and adjustments		\$3,000	\$0		
travel		\$300	\$300		
equipment		\$4,000	\$4,000		
<b>subtotal</b>		\$53,000	\$22,300	\$0	\$0
<b>Winter operations - additional expenses</b>					
BMW-BAR 4 FTE		\$54,132	\$56,624		
BMW TOC			\$3,621		
SnoCat Wages - OT		\$0	\$0		
utilities		\$16,675	\$16,675		
food		\$2,130	\$4,500		
one time purchases		\$1,050	\$1,050		
new fuel tank for snowcat			\$1,300		
GPS unit			\$300		
satellite telephone			\$1,500		
roof rack			\$200		
tail rack			\$200		
SnoCat operation (fuel+consumables only)		\$5,400	\$7,400		
<b>subtotal</b>		\$79,387	\$93,370	\$0	\$0

1200	<b>Other "Big Ticket" items</b>					
1210	BAR generator upgrade		\$32,700			\$32,700
1220	BAR wiring		\$24,500			\$24,500
1225	CC wood preservation					\$5,000
1230	BAR space heating (propane or kerosine)					\$2,000
1250	<b>subtotal</b>		\$57,200	\$0	\$0	\$64,200
1310	<b>Reserve Accounts (grants, gifts and endowments)</b>					
1320	Opportunity fund (07427z-418750-440000)	\$53,541				
1325	FSML grant	\$5,300			\$5,300	\$5,300
1330	Manis fund Interest-Principal (WMR0017-38756z-418751-440000)	\$10,339				
1340	Manis fund Interest-Principal (WMR0017-38756z-418751-440000)	\$47,283				
1350	WMRAAL2-57605a (adopt a log)	\$23,184				\$10,000
1360	Pace fund (WMR0015-57606a-418751-440000)	\$25,741				\$10,000
1370	<b>subtotal reserve accounts</b>	\$165,388			\$5,300	\$25,300
1999	<b>List totals</b>		\$1,013,045	\$934,545	\$0	\$89,500
	<b>Budget totals and balances</b>					
			projected 2003	new proj. 2003	special funds	projected 2003-
			04	04	actual 2002-03	04
	total expenses (not including benefits)		\$1,013,045	\$934,545	\$0	\$89,500
	estimated cost of benefits		\$109,597	\$109,597		
	total expenses (including benefits)		\$1,122,641	\$1,044,142	\$0	\$89,500
	estimated beginning carryover balance July 1		\$72,249	\$72,249	\$165,388	\$165,388
	estimated recurrent funding 2--3-04		\$999,507	\$999,507	\$0	\$0
	<b>estimated ending balance June 30</b>		<b>(\$50,886)</b>	<b>\$27,614</b>	<b>\$165,388</b>	<b>\$75,888</b>

# UC White Mountain Research Station

Four laboratories spanning a 10,000 ft. altitude transect



Wireless network for voice and data (**yellow**) between the laboratories, which can also receive telemetry data from field sites. Paved (**red**) and dirt (**purple**) road access is shown also.

In the Shadow of the White Mountain  
Informal Science Education supplement to FSML grant  
( WMRS and UCSD-TV)



## Grad student Minigrants

	Name (*Renewal)	Campus	Advisor	Area	Project Title	R&B & computer usage \$\$	Travel	Other Funds \$	Ref ltr #1 rcv'd	Ref ltr #2 rcv'd	Ref ltr #3 rcv'd
1	*Abahneh, Linah	U AZ	Jeffrey Dean	Earth	When do the bristlecone pine trees start to develop the strip-bark phenomena?	\$630	\$790	\$0	Dean	N/A	N/A
2	Bowerman, Nicole	Western WA	Doug Clark	Earth	Establishing a definitive record of Holocene glaciation in the Sierra Nevada, California	\$600	\$1,400	\$0	Millar	Babcock	Clark
3	Casteel, John	Central WA	Jeffrey Lee	Earth	Tectonic geomorphology and geochronological investigations of an unnamed fault along the eastern margin of Owens Valley, California	\$1,500	\$2,200	\$1,500	Rubin	Lee	Bohrson
4	Gaschnig, Richard	UNC	Allen Glazner	Earth	Brittle deformation in Little Lakes Valley: a possible link to dextral slip in Owens Valley	\$1,135	\$425	\$0	Carter	Glazner	Coleman
5	James, Jeremy	UCD	Richards, James	Earth	Plant resource competition, N cycling, and plant-microbe interactions in pulsed desert systems	\$805	\$696	\$1,501	Donovan	Jackson	Richards
6	*Le, Kimberly	Central WA	Jeffrey Lee	Earth	Late Pleistocene Extension along the Sierra Nevada frontal fault zone, CA	\$140	\$660	\$0	Lee	N/A	N/A
7	*Levy, Alan	UCSB	Philip Lubin	Physics	Measuring the Polarization of the Cosmic Microwave Background Radiation	\$2,000	\$0	\$0	Lubin	N/A	N/A
8	*Meyer, Archie	CSU - SB	John Skillman	Biology	Microsite Effects on the C4 grass Muhlenbergia richardsonis, Growing at Moderate and Extreme Elevations in the White Mountains, California	\$1,600	\$373	\$0	Skillman	N/A	N/A
9	*Russell, Gregory	UCR	Kimberly Hammond	Biology	Effects of in utero development at high altitude on mitochondrial oxidative metabolism in deer mice, Peromyscus maniculatus	\$2,000	\$0	\$0	Hammond	N/A	N/A
10	*Sheehan, Timothy	Tulane	Nancye Dawers	Earth	Owens Valley Fault Kinematics: Right-lateral slip transfer via north-northeast striking normal faults at the north end of the Owens Valley fault zone	\$2,100	\$2,200	\$800	Dawers	N/A	N/A
11	*Stebor, Nathan	UCSB	Philip Lubin	Physics	Using the Sunyaev-Zeldovich Effect to Measure Cosmological Parameters	\$1,998	\$0	\$0	Lubin	N/A	N/A
12	*Tincher, Christopher	U KS	Daniel Stockli	Earth	Cenozoic Volcanism and Tectonics in the Queen Valley Area, Northern White Mountains, Eastern California and Western Nevada	\$324	\$1,380	\$0	Stockli	N/A	N/A
13	*Williams, Brian	UCSB	Philip Lubin	Physics	Detection of Cosmic Microwave Background polarization signature	\$2,025	\$0	\$0	Lubin	N/A	N/A
			<b>TOTAL</b>			<b>\$16,857</b>	<b>\$10,124</b>	<b>\$3,801</b>			
			<b>UC</b>			<b>6,803</b>	<b>696</b>	<b>1,501</b>			
			<b>non-UC</b>			<b>10,054</b>	<b>9,428</b>	<b>2,300</b>			

# WMRS winter operations

<b>Estimated income winter operations:</b>		<b>#days</b>	<b>#units</b>	<b>rate</b>	<b>amount</b>
	Dog project care per diem	213	1	150	\$31,950
	Guinea Pig Project care	213	1	50	\$10,650
	Mouse Project care	213	1	50	\$10,650
	Astrophysics Project room & board	60	2	80	\$9,600
	Snowcat runs astrophysics transport	14	1	175	\$2,450
	Special snowcat runs	5	1	800	\$4,000
	<b>subtotal estimated income</b>				\$69,300
	<b>income received to date</b>				\$54,300
<b>1100</b>	<b>Winter operations - additional expenses</b>			<b>budget</b>	<b>projected</b>
1110	BMW-BAR 4 FTE			\$54,132	\$56,624
	BMW TOC				\$3,621
1120	SnoCat Wages - OT			\$0	\$0
1130	utilities			\$16,675	\$16,675
1140	food			\$2,130	\$4,500
1150	one time purchases			\$1,050	\$1,050
1152	new fuel tank for snowcat				\$1,300
1153	GPS unit				\$300
1154	satellite telephone				\$1,500
1155	roof rack				\$200
1156	tail rack				\$200
1160	SnoCat operation (fuel+consumables only)			\$5,400	\$7,400
1170	<b>subtotal expenses</b>			\$79,387	\$93,370
	<b>Balance = income - expense</b>			<b>(\$10,087)</b>	<b>(\$24,070)</b>
<b>1200</b>	<b>Other "Big Ticket" items</b>				
1210	BAR generator upgrade				\$32,700
1220	BAR wiring				\$24,500
1225	CC wood preservation				\$5,000
1230	BAR space heating (propane or kerosine)				\$2,000
1250	<b>subtotal</b>				\$64,200