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ANALYSIS OF ECOSYSTEMS

DESERT BIOME

FOREST RESOURCES LIBRARY
JUN 20 1974
University of Washington

Budget

JULY 1971

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INTRODUCTION

This volume contains detailed budgets for 1972 and 1973. The complete set of budgets for 1972 occupies the first half of the volume, followed by those for 1973.

The budgets for each year are preceded by a detailed Table of Contents, project by project. This is followed by a list of the budget summaries for that year, institution by institution, and by an index of personnel giving the budget pages where each individual is mentioned. The project budgets follow; each carries, for ease of cross-reference, the number of the Proposal subsection where that aspect of the work is described. Where more than one institution is involved in a single project, separate budgets are presented.

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UTAH STATE UNIVERSITY

CENTRAL OFFICE -- CENTRAL OFFICE MANAGEMENT AND ADMINISTRATION

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	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
A. (CO)PRINCIPAL INVESTIGATOR(S)								
GOODALL, DAVID W. BIOME DIRECTOR	60	0	0	30	0	0	\$13,860.00	\$6,930.00
B. FACULTY ASSOCIATES								
ASST. DIRECTOR TO BE APPOINTED	120	0	0	0	0	0	\$15,000.00	\$0.00
MAC MAHON, JAMES A ASST. DIRECTOR	0	90	10	0	0	0	\$18,250.00	\$0.00
WAGNER, FREDERIC H. DEPUTY DIRECTOR	40	0	0	20	0	0	\$12,478.00	\$1,500.00
SUB-TOTAL							\$59,588.00	\$8,430.00
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
INTERNATIONAL LIAISON OFFICER	20	0	0	0	0	0	\$2,500.00	\$0.00
EDITOR TO BE APPOINTED	90	0	0	0	0	0	\$12,000.00	\$0.00
B. NON-FACULTY PROFESSIONALS								
CHENEY, D. ASST. EDITOR	90	0	0	0	0	0	\$6,000.00	\$0.00
WALK, FRED D. ADMINISTRATIVE ASST.	60	0	0	0	0	0	\$7,260.00	\$726.00
D. PRE-BACCALAUREATE STUDENTS								
PART-TIME ASSISTANTS							\$3,000.00	\$0.00
E. SECRETARIAL-CLERICAL								
3 SECRETARIES							\$12,960.00	\$0.00
TOTAL SALARIES AND WAGES							\$103,308.00	\$9,156.00
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$9,840.00	\$1,007.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							\$113,148.00	\$10,163.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
							\$15,000.00	\$0.00
SUB-TOTAL							\$15,000.00	\$0.00
F. TRAVEL								
1. DOMESTIC								
17 TRIP(S) @ \$300.00/TRIP							\$5,100.00	\$0.00
INTER BIOME MEETINGS								
28 TRIP(S) @ \$250.00/TRIP							\$7,000.00	\$0.00
BIOME MANAGEMENT TO OTHER INSTITIONS								
4 TRIP(S) @ \$1,250.00/TRIP							\$5,000.00	\$0.00
COMMITTEE MEETINGS								
48 TRIP(S) @ \$250.00/TRIP							\$12,000.00	\$0.00
SPECIALIST MEETINGS								
51 TRIP(S) @ \$200.00/TRIP							\$10,200.00	\$0.00
LIAISON VISIT								
60 TRIP(S) @ \$250.00/TRIP							\$15,000.00	\$0.00
PROCESS CORRDIRATORS TO SITES								
66 TRIP(S) @ \$300.00/TRIP							\$19,800.00	\$0.00
COLLABORATORS TO NATIONAL MEETINGS								
SUB-TOTAL							\$74,100.00	\$0.00
2. INTERNATIONAL								
							\$10,000.00	\$0.00
SUB-TOTAL							\$10,000.00	\$0.00
G. PUBLICATION COSTS								
							\$5,000.00	\$0.00
SUB-TOTAL							\$5,000.00	\$0.00
H. COMPUTER COSTS								
							\$2,000.00	\$0.00
SUB-TOTAL							\$2,000.00	\$0.00
I. OTHER COSTS								
3. NON-CATEGORIZED ITEMS								
COMMUNICATION COSTS							\$5,000.00	\$0.00
KEY PUNCH RENTAL							\$1,080.00	\$0.00
SUB-TOTAL							\$6,080.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							\$225,328.00	\$10,163.00
K. INDIRECT COSTS 60.00% OF A							\$61,984.00	\$5,493.00
L. TOTAL COSTS (J PLUS K)							\$287,312.00	\$15,656.00

UTAH STATE UNIVERSITY

CENTRAL OFFICE - DATA PROCESSING AND RETRIVAL

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
OFFICER IN CHARGE - TO BE APPOINTED	120	0	0	0	0	0	\$15,000.00	\$0.00
B. NON-FACULTY PROFESSIONALS								
KING, VERNE SENIOR PROGRAMMER	120	0	0	0	0	0	\$9,425.00	\$0.00
OLSEN, ALMA D. SENIOR PROGRAMMER	120	0	0	0	0	0	\$9,450.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
PROGRAMMING ASSISTANCE							\$5,000.00	\$0.00
E. SECRETARIAL-CLERICAL								
KEY PUNCH OPERATORS							\$8,800.00	\$0.00
TOTAL SALARIES AND WAGES.							<u>\$47,675.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A							\$3,804.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$51,479.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
COMPUTER SUPPLIES							\$2,000.00	\$0.00
OFFICE SUPPLIES							\$1,000.00	\$0.00
SUB-TOTAL.							<u>\$3,000.00</u>	<u>\$0.00</u>
H. COMPUTER COSTS								
SUB-TOTAL.							<u>\$30,000.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
3. NON-CATEGORIZED ITEMS								
KEY PUNCH RENTAL							\$2,664.00	\$0.00
SUB-TOTAL.							<u>\$2,664.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$87,143.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 60.00% OF A							\$28,605.00	\$0.00
L. TOTAL COSTS (J PLUS K).							<u>\$115,748.00</u>	<u>\$0.00</u>

UTAH STATE UNIVERSITY

CENTRAL OFFICE MODELLING

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
A. (CO)PRINCIPAL INVESTIGATOR(S)								
GOODALL, DAVID W. (BIOME DIRECTOR)	0	0	0	0	0	0	\$0.00	\$0.00
B. FACULTY ASSOCIATES								
BRIDGES, KENT ASST. DIRECTOR, MODELING	100	0	0	2	0	0	\$11,500.00	\$4,481.00
JENSEN, RANDEL	40	0	0	0	0	0	\$6,900.00	\$0.00
WATSON, JAMES	0	30	10	0	0	0	\$6,060.00	\$1,000.00
SUB-TOTAL							<u>\$24,460.00</u>	<u>\$5,481.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL TO BE APPOINTED	0	0	0	0	0	0	\$12,000.00	\$0.00
C. GRADUATE STUDENTS								
6 RESEARCH ASSISTANTS							\$22,000.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
PART-TIME PROGRAMMING							\$1,000.00	\$0.00
E. SECRETARIAL-CLERICAL								
SECRETARIAL & KEY PUNCH							\$6,100.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$65,500.00</u>	<u>\$5,481.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$5,150.00	\$602.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$70,650.00</u>	<u>\$6,083.00</u>
D. PERMANENT EQUIPMENT								
COMPUTER TERMINAL							\$8,000.00	\$0.00
SUB-TOTAL							<u>\$8,000.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
COMPUTER SUPPLIES							\$2,000.00	\$0.00
XEROX 1500 PAGES/MO @ .03/PAGE (18,000)							\$540.00	\$0.00
SUB-TOTAL							<u>\$2,540.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
21 TRIP(S) @ \$316.00/TRIP LOGAN TO LAS CRUCES							\$6,636.00	\$0.00
24 TRIP(S) @ \$316.00/TRIP LOGAN - TUCSON							\$7,584.00	\$0.00
6 TRIP(S) @ \$336.00/TRIP VARIOUS OTHER BIOME CENTERS							\$2,016.00	\$0.00
SUB-TOTAL							<u>\$16,236.00</u>	<u>\$0.00</u>
G. PUBLICATION COSTS								
25 MODELS @ 50 PAGES/MODEL X 100 COPIES							\$1,875.00	\$0.00
SUB-TOTAL							<u>\$1,875.00</u>	<u>\$0.00</u>
H. COMPUTER COSTS								
12 MONTHS @ 3500./MO. + 1500.00							\$47,000.00	\$0.00
SUB-TOTAL							<u>\$47,000.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
1. CONSULTANTS								
HONORARIA FOR CONSULTANTS							\$25,000.00	\$0.00
SUB-TOTAL							<u>\$25,000.00</u>	<u>\$0.00</u>
2. CONTRACTS								
SUBCONTRACTS FOR SHORT TERM PROJECTS							\$75,000.00	\$0.00
SUB-TOTAL							<u>\$75,000.00</u>	<u>\$0.00</u>
3. NON-CATEGORIZED ITEMS								
CONFERENCE TELEPHONE UNITS 4 X 12/MO. @ \$12./MO. COMMUNICATION							\$576.00	\$0.00
							\$4,800.00	\$0.00
INTERPERTING KEY PUNCH @ 111/MO.							\$1,332.00	\$0.00
SUB-TOTAL							<u>\$6,708.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$253,009.00</u>	<u>\$6,083.00</u>
K. INDIRECT COSTS 60.00% OF A							\$39,300.00	\$3,288.00
L. TOTAL COSTS (J PLUS K)							<u>\$292,309.00</u>	<u>\$9,371.00</u>

UTAH STATE UNIVERSITY

VALIDATION STUDIES - CURLEW VALLEY - UTAH AND IDAHO - TERRESTRIAL
PROPOSAL 4-2-1-1

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
ASHCROFT, GAYLAN L.	0	0	0	0	0	0	\$0.00	\$0.00
RALPH, DAVID F. SITE COOPDINATOR	60	0	0	0	20	0	\$9,510.00	\$4,000.00
DIRMHIRN, INGF	0	0	0	0	0	0	\$0.00	\$0.00
DIXON, KEITH	0	0	0	0	0	0	\$0.00	\$0.00
HANKS, ROBERT J.	0	0	0	0	0	0	\$0.00	\$0.00
HSIAO, TING H.	0	0	0	0	0	0	\$0.00	\$0.00
KNOWLTON, GEORGE F.	30	0	0	0	0	0	\$2,000.00	\$0.00
LYNN, RAYMOND I.	0	0	0	0	0	0	\$0.00	\$0.00
MALECHEK, JOHN	0	0	0	0	0	0	\$0.00	\$0.00
SKUJINS, JOHN J.	0	0	0	0	0	0	\$0.00	\$0.00
WAGNER, FREDERIC H.	0	0	0	0	0	0	\$0.00	\$0.00
SUB-TOTAL							<u>\$11,510.00</u>	<u>\$4,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
STODDART, CHARLES	60	0	0	0	0	0	\$6,000.00	\$0.00
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$3,600.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
2 TECHNICIANS							\$14,400.00	\$0.00
TOTAL SALARIES AND WAGES.							<u>\$35,510.00</u>	<u>\$4,000.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$2,706.00	\$440.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$38,216.00</u>	<u>\$4,440.00</u>
D. PERMANENT EQUIPMENT								
METEOROLOGICAL EQUIPMENT							\$30,000.00	\$0.00
SUB-TOTAL							<u>\$30,000.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
COLLECTING SUPPLIES							\$1,000.00	\$0.00
FIELD AND OFFICE SUPPLIES							\$2,000.00	\$0.00
SPECIMEN PREPARATION SUPPLIES							\$1,000.00	\$0.00
SUB-TOTAL							<u>\$4,000.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
15 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$300.00	\$0.00
CURLEW VALLEY								
SUB-TOTAL							<u>\$300.00</u>	<u>\$0.00</u>
G. OTHER COSTS								
1. CONSULTANTS								
HONORARIA ANDERSON, HOLTE, LOEBECK, TROST							\$1,000.00	\$0.00
SUB-TOTAL							<u>\$1,000.00</u>	<u>\$0.00</u>
2. CONTRACTS								
CHEMICAL ANALYSIS							\$5,000.00	\$0.00
SUB-TOTAL							<u>\$5,000.00</u>	<u>\$0.00</u>
3. NON-CATEGORIZED ITEMS								
RENTAL AND OPERATION OF 3 TRUCKS FOR ONE YEAR							\$5,000.00	\$0.00
SUB-TOTAL							<u>\$5,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$83,516.00</u>	<u>\$4,440.00</u>
K. INDIRECT COSTS 60.00% OF A							\$21,306.00	\$2,400.00
L. TOTAL COSTS (J PLUS K).							<u>\$104,822.00</u>	<u>\$6,840.00</u>

IDAHO STATE UNIVERSITY

VALIDATION STUDIES -- CURLEW VALLEY -- WIAH AND IDAHC -- TERRESTRIAL
PROPOSAL 4.2.1.1

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
ANDERSON, ROBERT C.	0	0	0	0	0	5	\$0.00	\$562.00
HOLTE, KARL	0	0	0	0	0	5	\$0.00	\$297.00
LOEBECK, MAUDE E.	0	0	0	0	0	5	\$0.00	\$686.00
TROST, CHARLES H.	0	0	0	0	0	5	\$0.00	\$550.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$2,095.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
4 RESEARCH ASSISTANTS							\$13,600.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$13,600.00</u>	<u>\$2,095.00</u>
B. FRINGE BENEFITS 14.00% OF A							\$1,904.00	\$293.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$15,504.00</u>	<u>\$2,388.00</u>
F. TRAVEL								
1. DOMESTIC								
71 TRIP(S) @ \$14.00/TRIP							\$994.00	\$0.00
IDAHO TO CURLEW VALLEY							<u>\$994.00</u>	<u>\$0.00</u>
SUB-TOTAL							<u>\$994.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$16,498.00</u>	<u>\$2,388.00</u>
K. INDIRECT COSTS 43.90% OF A							\$5,970.00	\$919.00
L. TOTAL COSTS (J PLUS K)							<u>\$22,468.00</u>	<u>\$3,307.00</u>

IDAHO STATE UNIVERSITY

VALIDATION STUDY - DEEP CREEK VALIDATION STUDY
 PROPOSAL 4,2,1,2

	1/10 MAN-MONTHS				N.S.F.		GRANTEE	
	CAL	ACAD	SUM	CAL	ACAD	SUM	N.S.F.	GRANTEE

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
MINSHALL, G. WAYNE PROJECT LEADER	0	15	0	0	0	20	\$1,600.00	\$1,850.00
ROSE, FRED L.	0	10	0	0	0	20	\$1,200.00	\$1,100.00
SUB-TOTAL							<u>\$2,800.00</u>	<u>\$2,950.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
4 RESEARCH ASSISTANTS							\$17,200.00	\$0.00
E. SECRETARIAL-CLERICAL							\$500.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$2,300.00	\$0.00
TOTAL SALARIES AND WAGES.							<u>\$22,800.00</u>	<u>\$2,950.00</u>
B. FRINGE BENEFITS 14.00% OF A							\$3,192.00	\$413.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$25,992.00</u>	<u>\$3,363.00</u>
D. PERMANENT EQUIPMENT								
DRY-FALLOUT COLLECTORS							\$1,600.00	\$0.00
PROPORTIONAL FERTILIZER UNITS (2)							\$2,000.00	\$0.00
SUB-TOTAL							<u>\$3,600.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							<u>\$1,600.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
70 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$1,400.00	\$0.00
CURLEW VALLEY								
SUB-TOTAL							<u>\$1,400.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
2. CONTRACTS								
CONTRACT ANALYSIS							\$2,000.00	\$0.00
SUB-TOTAL							<u>\$2,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$34,592.00</u>	<u>\$3,363.00</u>
K. INDIRECT COSTS 43.90% OF A							\$10,009.00	\$1,295.00
L. TOTAL COSTS (J PLUS K).							<u>\$44,601.00</u>	<u>\$4,658.00</u>

UTAH STATE UNIVERSITY

VALIDATION STUDIES - CURLEW VALLEY - LOCOMOTIVE SPRINGS
 PROPOSAL 4-2-1-2

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
HOLMAN, J. ANNE PROJECT LEADER	50	0	0	0	0	0	\$5,500.00	\$0.00
KRAMER, R. FEDERAL EMPLOYEE	0	0	0	0	0	0	\$0.00	\$0.00
LYNN, RAYMOND I.	0	0	0	0	0	5	\$0.00	\$600.00
POST, F. J.	0	0	0	0	0	5	\$0.00	\$600.00
SUB-TOTAL							<u>\$5,500.00</u>	<u>\$1,200.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
B. NON-FACULTY PROFESSIONALS								
WALKIW, IRENE	60	0	0	0	0	0	\$3,300.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
1							\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$9,800.00</u>	<u>\$1,200.00</u>
B. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A							\$1,028.00	\$132.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$10,828.00</u>	<u>\$1,332.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
REAGENTS, GLASSWARE, AND MISC. LABORATORY MATERIALS							\$700.00	\$0.00
SUB-TOTAL							<u>\$700.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
24 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$480.00	\$0.00
CURLEW VALLEY								
24 DAYS AT \$100.00/DAY PER DIEM							\$2,400.00	\$0.00
SUB-TOTAL							<u>\$2,880.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
2. CONTRACTS								
CONTRACT ANALYSIS							\$2,000.00	\$0.00
SUB-TOTAL							<u>\$2,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$16,408.00</u>	<u>\$1,332.00</u>
K. INDIRECT COSTS 60.00% OF A							\$5,880.00	\$720.00
L. TOTAL COSTS (J PLUS K)							<u>\$22,288.00</u>	<u>\$2,052.00</u>

UNIVERSITY OF CALIFORNIA, LOS ANGELES

VALIDATION STUDIES - VALIDATION STUDIES AT ROCK VALLEY, NEVADA TEST
 SITE, NEVADA
 PROPOSAL 4-2-2.1

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE		N.S.F.	GRANTEE		
	CAL	ACAD	SUM	CAL			ACAD	SUM
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
BAMBERG, SAMUEL A.	0	30	0	0	0	0	\$4,433.00	\$0.00
TURNER, FREDERICK B. PROJECT LEADER	0	30	0	0	0	0	\$6,933.00	\$0.00
SUB-TOTAL							<u>\$11,366.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
B. NON-FACULTY PROFESSIONALS								
ACKERMAN, TOM	60	0	0	0	0	0	\$3,452.00	\$0.00
MAZA, BERNARDO	60	0	0	0	0	0	\$3,300.00	\$0.00
MEDICA, PHILIP A.	60	0	0	0	0	0	\$4,192.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
FIELD ASSISTANTS							\$3,500.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$25,810.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 13.00% OF A1 ,A2B AND 10.00% OF REMAINDER OF A							\$3,250.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$29,060.00</u>	<u>\$0.00</u>
D. PERMANENT EQUIPMENT								
METEOROLOGICAL EQUIPMENT								
SUB-TOTAL							<u>\$15,000.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
OFFICE FIELD SUPPLIES								
SUB-TOTAL							<u>\$2,000.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
2 TRIP(S) @ \$148.00/TRIP							\$296.00	\$0.00
WESTWOOD - RENO								
3 TRIP(S) @ \$73.00/TRIP							\$219.00	\$0.00
TUCSON								
40 TRIP(S) OF 550 MILES @ \$0.10/MILE							\$2,200.00	\$0.00
ROCK VALLEY								
40 TRIP(S) @ \$50.00/TRIP							\$2,000.00	\$0.00
WESTWOOD - VALIDATION SITE								
200 DAYS AT \$7.50/DAY PER DIEM							\$1,500.00	\$0.00
SUB-TOTAL							<u>\$6,215.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
2. CONTRACTS								
CHEMICAL ANALYSIS								
SUB-TOTAL							<u>\$5,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$57,275.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 47% ON CAMPUS 27% OFF CAMPUS							\$9,016.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$66,291.00</u>	<u>\$0.00</u>

CALIFORNIA STATE COLLEGE AT LONG BEACH

VALIDATION STUDY -- VALIDATION STUDIES AT ROCK VALLEY, NEVADA TEST SITE --
NEVADA (ABTHROPODS)
PROPOSAL 4.2.2.1

	1/10 MAN-MONTHS				N.S.F.		GRANTEE	
	N.S.F.		GRANTEE		N.S.F.		GRANTEE	
	CAL	ACAD	SUM	CAL	ACAD	SUM	N.S.F.	GRANTEE

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
SLEEPER, ELBERT L.	0	20	0	0	0	20	\$2,300.00	\$2,000.00
SUB-TOTAL							<u>\$2,300.00</u>	<u>\$2,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
B. NON-FACULTY PROFESSIONALS								
TECHNICIAN	0	0	0	0	0	0	\$8,000.00	\$1,500.00
TOTAL SALARIES AND WAGES							<u>\$10,300.00</u>	<u>\$3,500.00</u>
B. FRINGE BENEFITS 10.30% OF A1, A2B AND 00.00% OF REMAINDER OF A							\$1,060.00	\$360.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$11,360.00</u>	<u>\$3,860.00</u>
D. PERMANENT EQUIPMENT								
D-VAC UNIT							\$300.00	\$0.00
SUB-TOTAL							<u>\$300.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
COLLECTING BAGS, AND FOR D-VAC AND MISC CLOTH-WARE							\$300.00	\$100.00
VIALS AND JARS (STORAGE) AND MISC. GLASSWARE							\$200.00	\$200.00
SUB-TOTAL							<u>\$500.00</u>	<u>\$300.00</u>
F. TRAVEL								
1. DOMESTIC								
10 TRIP(S) OF 300 MILES @ \$0.10/MILE							\$300.00	\$0.00
LONG BEACH TO ROCK VALLEY								
8 TRIP(S) @ \$62.00/TRIP							\$496.00	\$0.00
LOCAL AREA								
6 TRIP(S) OF 300 MILES @ \$0.10/MILE							\$0.00	\$180.00
ROCK VALLEY								
30/DAYS AT \$750.00/DAYS PER DIEM							\$225.00	\$0.00
SUB-TOTAL							<u>\$1,021.00</u>	<u>\$180.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$13,181.00</u>	<u>\$4,340.00</u>
K. INDIRECT COSTS 24.53% OF J-D							\$3,159.00	\$1,064.00
L. TOTAL COSTS (J PLUS K)							<u>\$16,340.00</u>	<u>\$5,404.00</u>

UNIVERSITY OF SOUTHERN CALIFORNIA

VALIDATION STUDIES - VALIDATION STUDIES AT ROCK VALLEY, NEVADA TEST
SITE, NEVADA
PROPOSAL 4.2.2.1

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
CHEW, ROBERT M.	0	0	4	0	7	0	\$728.00	\$1,275.00
SUB-TOTAL							<u>\$728.00</u>	<u>\$1,275.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT (PART-TIME)							\$923.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
TECHNICIAN (OFF CAMPUS)							\$923.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$2,574.00</u>	<u>\$1,275.00</u>
B. FRINGE BENEFITS 07.00% OF A							\$180.00	\$89.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$2,754.00</u>	<u>\$1,364.00</u>
D. PERMANENT EQUIPMENT								
SOIL MOISTURE METER							\$250.00	\$0.00
SUB-TOTAL							<u>\$250.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							<u>\$150.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
10 TRIP(S) @ \$50.00/TRIP							\$500.00	\$0.00
ROCK VALLEY								
SUB-TOTAL							<u>\$500.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$3,654.00</u>	<u>\$1,364.00</u>
K. INDIRECT COSTS 44.00% OF A							\$1,132.00	\$561.00
L. TOTAL COSTS (J PLUS K)							<u>\$4,786.00</u>	<u>\$1,925.00</u>

U.S. PUBLIC HEALTH SERVICE

VALIDATION STUDIES - DEATH VALLEY DRAINAGE - BOCK VALLEY
PROPOSAL 4.2.2.1

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
AU, FRED H. (FEDERAL EMPLOYEE)	0	0	0	0	0	0	\$0.00	\$0.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$0.00</u>
TOTAL SALARIES AND WAGES							<u>\$0.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 00.00% OF A							\$0.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$0.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
CULTURE MEDIA							\$50.00	\$0.00
DISPOSABLE PETRI DISHES							\$100.00	\$300.00
DISPOSABLE PIPETTES AND OTHER LAB ITEMS							\$135.00	\$0.00
TEST TUBES							\$150.00	\$0.00
SUB-TOTAL							<u>\$435.00</u>	<u>\$300.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$435.00</u>	<u>\$300.00</u>
K. INDIRECT COSTS 00.00% OF J-D							\$0.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$435.00</u>	<u>\$300.00</u>

UNIVERSITY OF NEVADA AT LAS VEGAS

VALIDATION STUDIES - VALIDATION STUDIES AT SARATOGA SPRINGS, CALIFORNIA
PROPOSAL 4.2.2.2

	1/10 MAN-MONTHS				GRANTEE		N.S.F.	GRANTEE	
	N.S.F.	CAL	ACAD	SUM	CAL	ACAD			SUM

A. SALARIES AND WAGES									
1. SENIOR PERSONNEL									
B. FACULTY ASSOCIATES									
BAEPLER, DON		0	0	0	0	10	10	\$0.00	\$2,000.00
BRADLEY, W. G.		0	10	0	0	10	0	\$1,000.00	\$1,000.00
DEACON, JAMES		0	10	0	0	10	0	\$1,000.00	\$1,000.00
SUB-TOTAL								<u>\$2,000.00</u>	<u>\$4,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)									
C. GRADUATE STUDENTS									
2 RESEARCH ASSISTANTS								\$8,000.00	\$0.00
TOTAL SALARIES AND WAGES								<u>\$10,000.00</u>	<u>\$4,000.00</u>
B. FRINGE BENEFITS 07.00% OF A								\$700.00	\$280.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)								<u>\$10,700.00</u>	<u>\$4,280.00</u>
F. EXPENDABLE EQUIPMENT AND SUPPLIES									
1 D-VAC INSECT NET MISC. SUPPLIES, CHEMICALS								\$600.00	\$0.00
SUB-TOTAL								<u>\$600.00</u>	<u>\$0.00</u>
F. TRAVEL									
1. DOMESTIC									
12 TRIP(S) OF 300 MILES @ \$0.10/MILE								\$360.00	\$0.00
LAS VEGAS TO DEATH VALLEY									
40/DAYS AT \$500.00/DAYS TRUCK RENTAL								\$200.00	\$0.00
SUB-TOTAL								<u>\$560.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)								<u>\$11,860.00</u>	<u>\$4,280.00</u>
K. INDIRECT COSTS 45.44% OF C								\$4,862.00	\$1,944.00
L. TOTAL COSTS (J PLUS K)								<u>\$16,722.00</u>	<u>\$6,224.00</u>

UNIVERSITY OF ARIZONA

VALIDATION STUDIES -- TUCSON BASIN GENERAL
PROPOSAL 4.2.3

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
BARTLETT, E. T. ASSOC COORDINATOR	0	60	0	0	10	0	\$6,000.00	\$1,000.00
COCKRUM, F.	0	0	0	0	20	0	\$0.00	\$1,750.00
EHRENREICH, J.	0	0	0	0	10	0	\$0.00	\$1,000.00
LOWE, CHARLES H.	0	0	0	0	10	0	\$0.00	\$1,000.00
NUTTING, WILLIAM L.	0	0	0	0	0	0	\$0.00	\$0.00
RUSSELL, STEPHEN M.	0	0	0	0	10	0	\$0.00	\$1,200.00
THAMES, J. L. PROJECT LEADER	0	10	0	0	30	0	\$1,000.00	\$6,000.00
WERNER, FLOYD G.	0	0	0	0	20	0	\$0.00	\$2,000.00
SUB-TOTAL							<u>\$7,000.00</u>	<u>\$13,950.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
RESEARCH ASSISTANTS							\$15,000.00	\$0.00
E. SECPETARIAL-CLERICAL							\$2,500.00	\$500.00
F. TECHNICAL, SHOP, AND OTHER								
BIO-TECHNICIANS (2)							\$15,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$39,500.00</u>	<u>\$14,450.00</u>
B. FRINGE BENEFITS 07.00% OF A1 ,A2A,A2B AND 01.00% OF REMAINDER OF A							\$815.00	\$981.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$40,315.00</u>	<u>\$15,431.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
OFFICE AND FIELD SUPPLIES							\$2,500.00	\$0.00
SUB-TOTAL							<u>\$2,500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
10 TRIP(S) @ \$250.00/TRIP							\$2,500.00	\$0.00
TUCSON - SILVER BELL AND SANTA RITA								
SUB-TOTAL							<u>\$2,500.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
2. CONTRACTS								
CHEMICAL ANALYSIS							\$3,000.00	\$0.00
SUB-TOTAL							<u>\$3,000.00</u>	<u>\$0.00</u>
3. NON-CATEGORIZED ITEMS								
DAS (ANNUAL LEASE)							\$13,488.00	\$0.00
UTILITIES (SB)							\$1,220.00	\$0.00
SUB-TOTAL							<u>\$14,708.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$63,023.00</u>	<u>\$15,431.00</u>
K. INDIRECT COSTS 44.95% OF A							\$17,755.00	\$6,495.00
L. TOTAL COSTS (J PLUS K)							<u>\$80,778.00</u>	<u>\$21,926.00</u>

NEW MEXICO STATE UNIVERSITY

VALIDATION STUDIES - JORNADA - NEW MEXICO
PROPOSAL 4-2-4

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
LUDWIG, JOHN	0	0	20	0	0	0	\$2,800.00	\$0.00
O'BRIEN, ROBERT T.	0	0	10	0	0	0	\$1,800.00	\$0.00
RAITT, R. J.	0	0	10	0	0	0	\$1,900.00	\$0.00
WHITFORD, W. G. PROJECT LEADER	0	0	20	0	0	0	\$3,200.00	\$0.00
ZIMMERMAN, J. R.	0	0	10	0	0	0	\$1,800.00	\$0.00
SUB-TOTAL							<u>\$11,500.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
1 TO BE APPOINTED	120	0	0	0	0	0	\$9,000.00	\$0.00
C. GRADUATE STUDENTS								
4 GRADUATE ASSISTANTS							\$22,650.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
4 UNDERGRADUATE ASSISTANTS							\$4,000.00	\$0.00
E. SECRETARIAL-CLERICAL								
SECRETARY-CLERICAL							\$3,600.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$50,750.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$3,501.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$54,251.00</u>	<u>\$0.00</u>
D. PERMANENT EQUIPMENT								
METEOROLOGICAL EQUIPMENT							\$30,000.00	\$0.00
SUB-TOTAL							<u>\$30,000.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							<u>\$2,500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
500 TRIP(S) OF 50 MILES @ \$0.10/MILE							\$2,500.00	\$0.00
10 JORNADA								
SUB-TOTAL							<u>\$2,500.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
1. CONSULTANTS								
CONSULTANTS							\$1,000.00	\$0.00
SUB-TOTAL							<u>\$1,000.00</u>	<u>\$0.00</u>
2. CONTRACTS								
CONTRACT ANALYSIS							\$3,000.00	\$0.00
SUB-TOTAL							<u>\$3,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$93,251.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 41.00% OF A							\$20,807.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$114,058.00</u>	<u>\$0.00</u>

UTAH STATE UNIVERSITY

VALIDATION STUDY - SEED RESERVES IN THE VALIDATION STUDY AREAS
PROPOSAL 4.3.1

	1/10 MAN-MONTHS						N.S.F.		GRANTEE	
	N.S.F.		GRANTEE		N.S.F.		GRANTEE			
	CAL	ACAD	SUM	CAL	ACAD	SUM				

A. SALARIES AND WAGES										
1. SENIOR PERSONNEL										
A. (CD) PRINCIPAL INVESTIGATOR(S)										
GOODALL, DAVID W. (BIOME DIRECTOR)	0	0	0	0	0	0	\$0.00		\$0.00	
SUB-TOTAL							<u>\$0.00</u>		<u>\$0.00</u>	
2. OTHER PERSONNEL (NON-FACULTY)										
C. GRADUATE STUDENTS										
RESEARCH ASSISTANT							\$3,600.00		\$0.00	
D. PRE-BACCALAUREATE STUDENTS										
PART-TIME							\$1,000.00		\$0.00	
TOTAL SALARIES AND WAGES							<u>\$4,600.00</u>		<u>\$0.00</u>	
B. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A							\$276.00		\$0.00	
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$4,876.00</u>		<u>\$0.00</u>	
D. PERMANENT EQUIPMENT										
THERMAL GRADIENT BAR AND CHAMBER							\$700.00		\$0.00	
SUB-TOTAL							<u>\$700.00</u>		<u>\$0.00</u>	
E. EXPENDABLE EQUIPMENT AND SUPPLIES										
SUB-TOTAL							<u>\$500.00</u>		<u>\$0.00</u>	
F. TRAVEL										
1. DOMESTIC										
20 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$400.00		\$0.00	
CURLEW VALLEY										
9 TRIP(S) @ \$200.00/TRIP							\$1,800.00		\$0.00	
ROCK VALLEY, TUCSON AND JORNADA										
SUB-TOTAL							<u>\$2,200.00</u>		<u>\$0.00</u>	
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$8,276.00</u>		<u>\$0.00</u>	
K. INDIRECT COSTS 60.00% OF A							\$2,760.00		\$0.00	
L. TOTAL COSTS (J PLUS K)							<u>\$11,036.00</u>		<u>\$0.00</u>	

UNIVERSITY OF NEVADA AG ESP STA

VALIDATION STUDIES - APPLICATIONS OF REMOTE SENSING TECHNIQUES FOR
ANALYSIS OF DESERT BIOME VALIDATION SITES
PROPOSAL 4.3.2.

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE		N.S.F.	GRANTEE		
	CAL	ACAD	SUM	CAL			ACAD	SUM
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
TUELLER, PAUL	0	0	0	0	0	10	\$0.00	\$2,000.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$2,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
GARWIN, LORAIN	90	0	0	0	0	0	\$9,240.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$10,240.00</u>	<u>\$2,000.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$532.00	\$104.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$10,772.00</u>	<u>\$2,104.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
FILM COST, PROCESSING FILM, IR FILM CALB ENLARGEMENTS							\$3,000.00	\$0.00
SUB-TOTAL							<u>\$3,000.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
15 TRIP(S) @ \$150.00/TRIP							\$2,250.00	\$0.00
TO CURLEW ROCK, VALLEY, TUCSON, LAS CRUCES								
SUB-TOTAL							<u>\$2,250.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
3. NON-CATEGORIZED ITEMS								
AIRCRAFT RENTAL							\$3,100.00	\$0.00
SUB-TOTAL							<u>\$3,100.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$19,122.00</u>	<u>\$2,104.00</u>
K. INDIRECT COSTS							\$417.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$19,539.00</u>	<u>\$2,104.00</u>

UNIVERSITY OF CALIFORNIA, RIVERSIDE

VALIDATION STUDIES - THE BIOLOGY OF NEMATODES IN DESERT ECOSYSTEMS
 PROPOSAL 4.3.3.

	1/10 MAN-MONTHS				GRANTEE		N.S.F.	GRANTEE	
	N.S.F.	CAL	ACAD	SUM	CAL	ACAD			SUM
A. SALARIES AND WAGES									
1. SENIOR PERSONNEL									
B. FACULTY ASSOCIATES									
MANKAU, R.		0	0	0	0	20	0	\$0.00	\$2,050.00
SHER, S. A.		0	0	0	0	15	0	\$0.00	\$1,086.00
SUB-TOTAL								<u>\$0.00</u>	<u>\$3,136.00</u>
2. OTHER PERSONNEL (NON-FACULTY)									
C. GRADUATE STUDENTS									
1 RESEARCH ASST.								\$4,270.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER									
1 LAB. HELPER								\$2,434.00	\$0.00
TOTAL SALARIES AND WAGES								<u>\$6,704.00</u>	<u>\$3,136.00</u>
B. FRINGE BENEFITS 13.00% OF A1, A2B AND 00.00% OF REMAINDER OF A								\$0.00	\$407.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)								<u>\$6,704.00</u>	<u>\$3,543.00</u>
D. EXPENDABLE EQUIPMENT AND SUPPLIES									
SUB-TOTAL								\$1,500.00	\$0.00
								<u>\$1,500.00</u>	<u>\$0.00</u>
E. TRAVEL									
1. DOMESTIC									
24 TRIP(S) @ \$202.00/TRIP								\$4,848.00	\$0.00
CURLEW, ROCK VALLEY, JORNADA, TUCSON									
48 TRIP(S) @ 250 MILES @ \$0.12/MILE								\$1,440.00	\$0.00
DEEP CANYON									
SUB-TOTAL								<u>\$6,288.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)								<u>\$14,492.00</u>	<u>\$3,543.00</u>
K. INDIRECT COSTS 47.00% OF A								\$3,150.00	\$1,473.00
L. TOTAL COSTS (J PLUS K)								<u>\$17,642.00</u>	<u>\$5,016.00</u>

ARIZONA STATE UNIVERSITY

PLANT PROCESS STUDY COORDINATOR

	1/10 MAN-MONTHS		N.S.F.	GRANTEE
	CAL ACAD SUM	CAL ACAD SUM		

A. SALARIES AND WAGES				
2. OTHER PERSONNEL (NON-FACULTY)				
E. SECRETARIAL-CLERICAL			\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES.			<u>\$1,000.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 11.20% OF A1 ,A2A,A2B AND 01.00% OF REMAINDER OF A			\$10.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).			<u>\$1,010.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES			\$250.00	\$0.00
SUB-TOTAL.			<u>\$250.00</u>	<u>\$0.00</u>
I. OTHER COSTS				
1. CONSULTANTS				
PAYTON, DUNCAN T. HONORARIUM - TO BE PAID BY USU			\$4,000.00	\$0.00
SUB-TOTAL.			<u>\$4,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).			<u>\$5,260.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 55.60% OF A			\$556.00	\$0.00
L. TOTAL COSTS (J PLUS K).			<u><u>\$5,816.00</u></u>	<u><u>\$0.00</u></u>

UTAH STATE UNIVERSITY

PROCESS STUDIES - GAS EXCHANGE, TRANSLOCATION, ROOT GROWTH, AND SOIL
RESPIRATION STUDIES OF COLD DESERT PLANTS
PROPOSAL 5.2.2

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
CALDWELL, MARTYN M.	0	0	0	0	0	10	\$0.00	\$2,600.00
WIEBE, HERMAN H.	0	0	0	0	0	0	\$0.00	\$0.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$2,600.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$3,800.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
PART-TIME HELP							\$2,000.00	\$0.00
TECHNICIAN							\$4,100.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$9,900.00</u>	<u>\$2,600.00</u>
B. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A							\$594.00	\$286.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$10,494.00</u>	<u>\$2,886.00</u>
D. PERMANENT EQUIPMENT								
APPARATUS FOR SOIL RESPIRATION DETERMINATIONS							\$450.00	\$0.00
SUB-TOTAL							<u>\$450.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
CHEMICALS, 14CO(2), GLASSWARE, TUBING							\$400.00	\$0.00
ELECTRICAL POWER IN THE FIELD							\$600.00	\$0.00
INSTRUMENT REPAIRS AND MAINTENANCE							\$600.00	\$0.00
LARGE PLANT CONTAINERS							\$150.00	\$0.00
SUB-TOTAL							<u>\$1,750.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
40 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$800.00	\$0.00
CURLEW VALLEY								
60 TRIP(S) OF 12 MILES @ \$0.10/MILE							\$72.00	\$0.00
CACHE VALLEY								
SUB-TOTAL							<u>\$872.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
3. NON-CATEGORIZED ITEMS								
RENTAL LIQUID SCINTILLATION COUNTER OPERATION							\$800.00	\$0.00
RENTAL GROWTH CHAMBER							\$570.00	\$0.00
RENTAL OF OUTPUT STAGE FOR DATA MODULE							\$780.00	\$0.00
SUB-TOTAL							<u>\$2,150.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$15,716.00</u>	<u>\$2,886.00</u>
K. INDIRECT COSTS 60.00% OF A							\$5,940.00	\$1,560.00
L. TOTAL COSTS (J PLUS K)							<u>\$21,656.00</u>	<u>\$4,446.00</u>

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PROCESS STUDY -- GAS EXCHANGE AND PRODUCTIVITY IN SOME WINTER ANNUALS OF
A HOT DESERT
PROPOSAL 5.2.3

	1/10 MAN-MONTHS						N.S.F.		GRANTEE	
	N.S.F.		GRANTEE		N.S.F.		GRANTEE			
	CAL	ACAD	SUM	CAL	ACAD	SUM	N.S.F.	GRANTEE		

A. SALARIES AND WAGES										
1. SENIOR PERSONNEL										
B. FACULTY ASSOCIATES										
JOHNSON, HYRUM B.			20				\$2,666.00		\$0.00	
SUB-TOTAL							<u>\$2,666.00</u>		<u>\$0.00</u>	
2. OTHER PERSONNEL (NON-FACULTY)										
C. GRADUATE STUDENTS										
1 RESEARCH ASSISTANT							\$4,484.00		\$0.00	
D. PRE-BACCALAUREATE STUDENTS										
1 LAB HELPER							\$2,060.00		\$0.00	
TOTAL SALARIES AND WAGES							<u>\$9,210.00</u>		<u>\$0.00</u>	
B. FRINGE BENEFITS 13.00% OF A1, A2B AND 00.00% OF REMAINDER OF A							\$346.00		\$0.00	
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$9,556.00</u>		<u>\$0.00</u>	
D. PERMANENT EQUIPMENT										
SCHOLANDER PRESSURE APPARATUS							\$1,000.00		\$0.00	
SUB-TOTAL							<u>\$1,000.00</u>		<u>\$0.00</u>	
E. EXPENDABLE EQUIPMENT AND SUPPLIES										
CHEMICALS, MOISTURE BLOCKS, SHOP SUPPLIES							\$500.00		\$0.00	
THERMOMETERS, PSYCHOMETERS, FLOW METERS, PCTOMETER MAT.							\$500.00		\$0.00	
SUB-TOTAL							<u>\$1,000.00</u>		<u>\$0.00</u>	
F. TRAVEL										
1. DOMESTIC										
4 TRIP(S) OF 375 MILES @ \$0.10/MILE							\$150.00		\$0.00	
ROCK VALLEY AND TUCSON										
40 TRIP(S) OF 150 MILES @ \$0.10/MILE							\$600.00		\$0.00	
DEEP CANYON - PALM DESERT										
SUB-TOTAL							<u>\$750.00</u>		<u>\$0.00</u>	
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$12,306.00</u>		<u>\$0.00</u>	
K. INDIRECT COSTS 47.00% OF A							\$4,328.00		\$0.00	
L. TOTAL COSTS (J PLUS K)							<u>\$16,634.00</u>		<u>\$0.00</u>	

ARIZONA STATE UNIVERSITY

PROCESS STUDY -- PRODUCTIVITY AND WATER STRESS IN CACTI
PROPOSAL 5.2.4

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
PATTEN, DUNCAN T.	0	0	0	0	0	0	\$0.00	\$750.00
SUB-TOTAL							-----\$0.00	-----\$750.00
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 GRADUATE ASSISTANT (9 MONTHS)							\$2,970.00	\$0.00
TOTAL SALARIES AND WAGES							-----\$2,970.00	-----\$750.00
B. FRINGE BENEFITS 11.20% OF A1 ,A2A,A2B AND 01.00% OF REMAINDER OF A							\$29.00	\$84.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							-----\$2,999.00	-----\$834.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
PUMPS AND FLOWMETER REPLACEMENTS							\$250.00	\$0.00
TUBING, GLASSWARE, CHEMICALS, ETC.							\$200.00	\$0.00
SUB-TOTAL							-----\$450.00	-----\$0.00
F. TRAVEL								
1. DOMESTIC								
40 TRIP(S) OF 50 MILES @ \$0.10/MILE							\$200.00	\$0.00
USURY MTS								
SUB-TOTAL							-----\$200.00	-----\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							-----\$3,649.00	-----\$834.00
K. INDIRECT COSTS 55.60% OF A							\$1,651.00	\$417.00
L. TOTAL COSTS (J PLUS K)							-----\$5,300.00	-----\$1,251.00

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PROCESS STUDY - GAS EXCHANGE AND PRODUCTIVITY FOR CUMULIA SPP.
PROPOSAL 5.2.5

	1/10 MAN-MONTHS				N.S.F.	GRANTEE
	N.S.F.		GRANTEE			
	CAL	ACAD	SUM	CAL	ACAD	SUM

A. SALARIES AND WAGES						
1. SENIOR PERSONNEL						
B. FACULTY ASSOCIATES						
JOHNSON, HYRUM R.	0	0	0	0	0	0
TING, I. P. PROJECT LEADER	0	0	0	0	0	0
SUB-TOTAL					<u>\$0.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)						
C. GRADUATE STUDENTS						
2 RESEARCH ASSISTANTS					\$8,968.00	\$0.00
TOTAL SALARIES AND WAGES					<u>\$8,968.00</u>	<u>\$0.00</u>
R. FRINGE BENEFITS 13.00% OF A1 ,A2B AND 00.00% OF REMAINDER OF A					\$0.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).					<u>\$8,968.00</u>	<u>\$0.00</u>
F. EXPENDABLE EQUIPMENT AND SUPPLIES						
RADIOACTIVE CHEMICALS, GLASSWARE, ETC.					\$2,000.00	\$0.00
SUB-TOTAL					<u>\$2,000.00</u>	<u>\$0.00</u>
F. TRAVEL						
1. DOMESTIC						
15 TRIP(S) OF 500 MILES @ \$0.10/MILE					\$750.00	\$0.00
SILVER BELL RESEARCH SITE						
SUB-TOTAL					<u>\$750.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).					<u>\$11,718.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 47.00% OF A					\$4,214.00	\$0.00
L. TOTAL COSTS (J PLUS K).					<u>\$15,932.00</u>	<u>\$0.00</u>

UNIVERSITY OF CALIFORNIA, LOS ANGELES

PROCESS STUDIES -- PLANT PRODUCTIVITY AND ITS DISTRIBUTION AMONG PLANT PARTS AND NUTRIENT INTERRELATIONSHIPS IN SEVERAL SHRUB AND HERBACEOUS PLANT SPECIES IN MOHAVE AND GREAT BASIN DESERTS
PROPOSAL 5.2.6

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
BAMBERG, SAMUEL A.	0	15	0	0	0	0	\$2,350.00	\$0.00
KLEINKOPT, GAIL	0	15	0	0	0	0	\$2,100.00	\$0.00
ROMNEY, EVAN	0	0	0	0	0	0	\$0.00	\$0.00
WALLACE, ARTHUR	0	0	0	0	0	20	\$0.00	\$2,500.00
SUB-TOTAL							<u>\$4,450.00</u>	<u>\$2,500.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
B. NON-FACULTY PROFESSIONALS								
MORK, HAROLD	0	60	0	0	0	0	\$3,600.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$0.00	\$500.00
1								
TOTAL SALARIES AND WAGES.							<u>\$8,050.00</u>	<u>\$3,000.00</u>
B. FRINGE BENEFITS 13.00% OF A1, A2B AND 10.00% OF REMAINDER OF A							\$1,046.00	\$375.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$9,096.00</u>	<u>\$3,375.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
CALIBRATION GASES, HOSES, TUBING, LABELED TRACERS							\$600.00	\$300.00
SUB-TOTAL							<u>\$600.00</u>	<u>\$300.00</u>
F. TRAVEL								
1. DOMESTIC								
20 TRIP(S) OF 300 MILES @ \$0.10/MILE							\$600.00	\$0.00
ROCK VALLEY								
40 TRIP(S) OF 120 MILES @ \$0.10/MILE							\$480.00	\$0.00
NEVADA TEST SITE								
SUB-TOTAL							<u>\$1,080.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
1. CONSULTANTS								
STATISTICIAN							\$0.00	\$1,200.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$1,200.00</u>
3. NON-CATEGORIZED ITEMS								
GENERATOR							\$0.00	\$500.00
TRUCK FOR HAULING TRAILER							\$250.00	\$0.00
TRAILER							\$0.00	\$300.00
SUB-TOTAL							<u>\$250.00</u>	<u>\$800.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$11,026.00</u>	<u>\$5,675.00</u>
K. INDIRECT COSTS 47.00% OF A							\$3,783.00	\$1,410.00
L. TOTAL COSTS (J PLUS K).							<u>\$14,809.00</u>	<u>\$7,085.00</u>

UNIVERSITY OF ARIZONA

PROCESS STUDIES -- SEASONAL USE OF SOIL MOISTURE BY MATURE PROSOPIA
JULIFLORA VAR. VELUTINA, VELVET MESQUITE
PROPOSAL 5.2.7

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
CABLE, DWIGHT R. (FEDERAL EMPLOYEE)	0	0	0	0	0	0	\$0.00	\$0.00
SCHMUTZ, ERVIN M. (CONSULTANT)	0	0	0	2	0	0	\$0.00	\$350.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$350.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
GRADUATE ASSISTANT							\$3,500.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
FIELD ASSISTANT							\$300.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$3,800.00</u>	<u>\$350.00</u>
R. FRINGE BENEFITS 07.00% OF A1, A2A, A2B AND 01.00% OF REMAINDER OF A							\$38.00	\$24.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+R)							<u>\$3,838.00</u>	<u>\$374.00</u>
F. TRAVEL								
1. DOMESTIC								
52 TRIP(S) OF 80 MILES @ \$0.10/MILE							\$416.00	\$0.00
TUCSON SANTA RITA								
SUB-TOTAL							<u>\$416.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$4,254.00</u>	<u>\$374.00</u>
K. INDIRECT COSTS 44.95% OF A							\$1,708.00	\$157.00
L. TOTAL COSTS (J PLUS K)							<u>\$5,962.00</u>	<u>\$531.00</u>

NEW MEXICO STATE UNIVERSITY

PROCESS STUDIES -- THE EFFECTS OF ENVIRONMENTAL FACTORS ON RATES OF
PRIMARY PRODUCTION OF TWO DESERT GRASS SPECIES
PROPOSAL 5.2.8

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
CUNNINGHAM, G. L.	20	0	0	0	0	0	\$2,800.00	\$0.00
SUB-TOTAL							<u>\$2,800.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$4,250.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$7,050.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$576.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$7,626.00</u>	<u>\$0.00</u>
D. PERMANENT EQUIPMENT								
GAS EXCHANGE CHAMBER CONSTRUCTION							\$1,000.00	\$0.00
SPECTRORADIOMETER - ISCO MODEL SR 1350							\$2,290.00	\$0.00
SUB-TOTAL							<u>\$3,290.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							<u>\$1,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$11,916.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 41.00% OF A							\$2,890.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$14,806.00</u>	<u>\$0.00</u>

UNIVERSITY OF IDAHO

PROCESS STUDIES - GROWTH AND DEVELOPMENT OF SITANILN HYSTRIX AND PCA
SANDBERGII
PROPOSAL 5.2.9

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
HIRONAKA, M.	0	0	0	40	0	0	\$0.00	\$4,300.00
TISDALE, F. W.	0	0	0	15	0	0	\$0.00	\$2,700.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$7,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1, HALF-TIME							\$3,600.00	\$0.00
E. SECRETARIAL-CLERICAL								
1 MONTH							\$0.00	\$400.00
F. TECHNICAL, SHOP, AND OTHER								
PART TIME HELP							\$3,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$6,600.00</u>	<u>\$7,400.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$396.00	\$444.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$6,996.00</u>	<u>\$7,844.00</u>
D. PERMANENT EQUIPMENT								
THERMOCOUPLE RET. JCT.							\$450.00	\$0.00
SUB-TOTAL							<u>\$450.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							<u>\$1,200.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
10 TRIP(S) OF 700 MILES @ \$0.10/MILE							\$700.00	\$0.00
TO CURLEW VALLEY								
10 TRIP(S) @ \$40.00/TRIP							\$0.00	\$400.00
TO HANFORD WASHINGTON								
100/DAYS AT \$7.50/DAYS PER DIEM							\$750.00	\$0.00
SUB-TOTAL							<u>\$1,450.00</u>	<u>\$400.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$10,096.00</u>	<u>\$8,244.00</u>
K. INDIRECT COSTS 41.00% OF A							\$2,066.00	\$2,316.00
L. TOTAL COSTS (J PLUS K)							<u>\$12,162.00</u>	<u>\$10,560.00</u>

RICKS COLLEGE

PROCESS STUDIES - WATER AND TEMPERATURE EFFECTS ON NET PRODUCTIVITY IN
 CHRYSOTHAMNUS NAUSEOSUS AND C. VISCIDIFLORUS
 PROPOSAL 5.2.10

	1/10 MAN-MONTHS						N.S.F.		GRANTEE	
	CAL		ACAD		SUM		N.S.F.	GRANTEE		
A. SALARIES AND WAGES										
1. SENIOR PERSONNEL										
B. FACULTY ASSOCIATES										
PEARSON, LORENTZ C.		0	20	0	0	0	0	0	\$3,300.00	\$0.00
SUB-TOTAL									\$3,300.00	\$0.00
2. OTHER PERSONNEL (NON-FACULTY)										
C. GRADUATE STUDENTS										
2 RESEARCH ASSISTANTS									\$4,800.00	\$0.00
TOTAL SALARIES AND WAGES									\$8,100.00	\$0.00
B. FRINGE BENEFITS 05.20% OF A									\$421.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)									\$8,521.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES									\$340.00	\$0.00
SUB-TOTAL									\$340.00	\$0.00
F. TRAVEL										
1. DOMESTIC										
1 TRIP(S) OF 260 MILES @ \$0.07/MILE									\$18.00	\$0.00
PLANO, MENAN-WATER HAULING LIGHT TRUCK										
1 TRIP(S) OF 300 MILES @ \$0.20/MILE									\$60.00	\$0.00
PLANO, MENAN - WATER HAULING HEAVY TRUCK										
25 TRIP(S) OF 400 MILES @ \$0.07/MILE									\$700.00	\$0.00
CURLEW VALLEY										
SUB-TOTAL									\$778.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)									\$9,639.00	\$0.00
K. INDIRECT COSTS									\$110.00	\$0.00
L. TOTAL COSTS (J PLUS K)									\$9,749.00	\$0.00

ARIZONA STATE UNIVERSITY

PROCESS STUDY - PHENOLOGY AND FUNCTION OF SONORAN DESERT ANNUALS IN
RELATION TO ENVIRONMENTAL CHANGES
PROPOSAL 5-2-11

	1/10 MAN-MONTHS								N.S.F.	GRANTEE
	N.S.F.		GRANTEE		N.S.F.		GRANTEE			
	CAL	ACAD	SUM	CAL	ACAD	SUM				
A. SALARIES AND WAGES										
1. SENIOR PERSONNEL										
B. FACULTY ASSOCIATES										
PATTEN, DUNCAN T.	0	10	0	0	0	10		\$1,500.00		\$1,500.00
SUB-TOTAL								<u>\$1,500.00</u>		<u>\$1,500.00</u>
2. OTHER PERSONNEL (NON-FACULTY)										
C. GRADUATE STUDENTS										
1 GRADUATE ASST								\$3,960.00		\$0.00
TOTAL SALARIES AND WAGES								<u>\$5,460.00</u>		<u>\$1,500.00</u>
R. FRINGE BENEFITS 11.20% OF A1, A2A, A2B AND 01.00% OF REMAINDER OF A								\$207.00		\$168.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).								<u>\$5,667.00</u>		<u>\$1,668.00</u>
D. PERMANENT EQUIPMENT										
ARTIFICIAL WATERING EQUIPMENT								\$150.00		\$0.00
CONTROLLED FREQUENCY GENERATOR								\$800.00		\$0.00
DRYING OVEN								\$200.00		\$0.00
PLEXIGLAS CHAMBERS								\$200.00		\$0.00
SUB-TOTAL								<u>\$1,350.00</u>		<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES										
TUBING, RECORDER, CHART PAPER, GLASSWARE, ETC.								\$400.00		\$0.00
SUB-TOTAL								<u>\$400.00</u>		<u>\$0.00</u>
F. TRAVEL										
1. DOMESTIC										
30 TRIP(S) OF 50 MILES @ \$0.10/MILE								\$150.00		\$0.00
LOCAL AREA										
4 TRIP(S) OF 250 MILES @ \$0.10/MILE								\$100.00		\$0.00
TUCSON										
SUB-TOTAL								<u>\$250.00</u>		<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).								<u>\$7,667.00</u>		<u>\$1,668.00</u>
K. INDIRECT COSTS 55.60% OF A								\$3,035.00		\$834.00
L. TOTAL COSTS (J PLUS K).								<u>\$10,702.00</u>		<u>\$2,502.00</u>

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PROCESS STUDIES - A STUDY OF THE ESTIMATION OF ROOT BIOMASS OF DESERT PLANTS BY ISOTOPE DILUTION
PROPOSAL 2.2.12

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE		SUM			
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
YOUNG, ROY E.			0	0	0	0	\$0.00	\$0.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$4,985.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$1,605.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$6,590.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 13.00% OF A1 ,A2B AND 00.00% OF REMAINDER OF A							\$0.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$6,590.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
ISOTOPES FILM							\$499.00	\$0.00
SUB-TOTAL							<u>\$499.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
20 TRIP(S) OF 150 MILES @ \$0.10/MILE							\$300.00	\$0.00
DEEP CANYON - CALIF								
SUB-TOTAL							<u>\$300.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$7,389.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 47.00% OF A							\$3,097.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u><u>\$10,486.00</u></u>	<u><u>\$0.00</u></u>

UNIVERSITY OF ARIZONA

PROCESS STUDIES - DISTRIBUTION AND BALANCE OF BIOCASS AND NUTRIENTS IN
DESERT SHRUB ECOSYSTEMS
PROPOSAL 2,2,13

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
KLEMMEDSON, JAMES O.	0	0	0	0	0	10	\$0.00	\$1,500.00
SMITH, E. LINWOOD	10	0	0	0	0	0	\$1,300.00	\$0.00
SUB-TOTAL							<u>\$1,300.00</u>	<u>\$1,500.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 GRADUATE ASSISTANT							\$4,000.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$4,000.00	\$0.00
1 LABORATORY ASSISTANT (2/3 TIME)								
F. TECHNICAL, SHOP, AND OTHER							\$2,000.00	\$0.00
WAGES-STUDENT LABOR								
TOTAL SALARIES AND WAGES							<u>\$11,300.00</u>	<u>\$1,500.00</u>
B. FRINGE BENEFITS 07.00% OF A1, A2A, A2B AND 01.00% OF REMAINDER OF A							\$191.00	\$105.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$11,491.00</u>	<u>\$1,605.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
LABORATORY CHEMICALS AND GLASSWARE							\$1,800.00	\$0.00
SERVICE, PARTS, EQUIPMENT FOR LABORATORY APPARATUS							\$300.00	\$0.00
SUB-TOTAL							<u>\$2,100.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
2 TRIP(S) @ \$400.00/TRIP							\$800.00	\$0.00
50 TRIP(S) OF 75 MILES @ \$0.10/MILE							\$375.00	\$0.00
SANTA RITA, SILVER BELL								
SUB-TOTAL							<u>\$1,175.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$14,766.00</u>	<u>\$1,605.00</u>
K. INDIRECT COSTS 44.95% OF A							\$5,079.00	\$674.00
L. TOTAL COSTS (J PLUS K)							<u>\$19,845.00</u>	<u>\$2,279.00</u>

UTAH STATE UNIVERSITY

PROCESS STUDIES - ROLE OF ANNUAL GRASSES AND SHRUBS IN NUTRIENT CYCLING
 OF GREAT BASIN PLANT COMMUNITIES
 PROPOSAL 5.2.14

	1/10 MAN-MONTHS		N.S.F.		GRANTEE		N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
MCKELL, CYRUS M.	0	0	0	10	0	0	\$0.00	\$1,800.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$1,800.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
2 RESEARCH ASSISTANTS							\$7,200.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$7,200.00</u>	<u>\$1,800.00</u>
R. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A							\$432.00	\$198.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$7,632.00</u>	<u>\$1,998.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
LABORATORY AND FIELD SUPPLIES							\$1,000.00	\$0.00
PHOTOGRAPHIC SERVICES							\$200.00	\$0.00
SUB-TOTAL							<u>\$1,200.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
25 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$500.00	\$0.00
CURLEW VALLEY								
50 TRIP(S) OF 50 MILES @ \$0.10/MILE							\$250.00	\$0.00
LOCAL CACHE VALLEY								
SUB-TOTAL							<u>\$750.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$9,582.00</u>	<u>\$1,998.00</u>
K. INDIRECT COSTS 60.00% OF A							\$4,320.00	\$1,080.00
L. TOTAL COSTS (J PLUS K).							<u>\$13,902.00</u>	<u>\$3,078.00</u>

NEW MEXICO STATE UNIVERSITY

PROCESS STUDIES -- RATES OF LITTER ACCUMULATION AS A FUNCTION OF
 PRODUCTIVITY AND LAGOMORPH BROWSING, RATE OF LITTER, AND IMPACT OF
 BROWSING ON SHRUB PRODUCTIVITY.
 PROPOSAL 5.2.15

	1/10 MAN-MONTHS				N.S.F.		GRANTEE	
	N.S.F.		GRANTEE		N.S.F.		GRANTEE	
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
DICK-PEDDIE, W. A.	0	0	0	0	0	15	\$0.00	\$0.00
LUDWIG, JOHN	0	0	0	0	0	20	\$0.00	\$2,500.00
WHITFORD, W. G.	0	0	0	0	0	20	\$0.00	\$2,500.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$5,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
2 GRADUATE ASSISTANTS							\$8,000.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
2 UNDERGRADUATE ASSISTANTS							\$5,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$13,000.00</u>	<u>\$5,000.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$676.00	\$635.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$13,676.00</u>	<u>\$5,635.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$600.00	\$0.00
SUB-TOTAL							<u>\$600.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
200 TRIP(S) OF 100 MILES @ \$0.10/MILE							\$2,000.00	\$0.00
LOCAL - JORNADA								
SUB-TOTAL							<u>\$2,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$16,276.00</u>	<u>\$5,635.00</u>
K. INDIRECT COSTS 41.00% OF A							\$5,330.00	\$2,050.00
L. TOTAL COSTS (J PLUS K)							<u>\$21,606.00</u>	<u>\$7,685.00</u>

SAN DIEGO STATE COLLEGE

PROCESS STUDIES -- DROUGHT RESISTANCE AND DROUGHT-INDUCED MORTALITY OF
SELECTED DESERT SHRUBS
PROPOSAL 5-2-16

	1/10 MAN-MONTHS		N.S.F.		GRANTEE		N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
ERERT, THOMAS A.	0	C	5	0	0	0	\$500.00	\$0.00
ZEDLER, PAUL H. PROJFCT LEADER	0	0	20	0	C	0	\$2,890.00	\$0.00
SUB-TOTAL							<u>\$3,390.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$3,000.00	\$0.00
TOTAL SALARIES AND WAGES.							<u>\$6,390.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 05.40% OF A1 ,A2A,A2B AND 04.30% OF REMAINDER OF A							\$312.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$6,702.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
NITROGEN GAS FOR PRESSURE BOMB							\$80.00	\$0.00
OFFICE & FIELD SUPPLIES							\$100.00	\$0.00
POTS							\$250.00	\$0.00
SOIL MOISTURE BLOCKS							\$300.00	\$0.00
SUB-TOTAL							<u>\$730.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
15 TRIP(S) OF 70 MILES @ \$0.10/MILE							\$105.00	\$0.00
LOCAL AREA								
4 TRIP(S) @ \$100.00/TRIP							\$400.00	\$0.00
ROCK VALLEY								
SUB-TOTAL							<u>\$505.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$7,937.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 62.00% OF A							\$3,961.00	\$0.00
L. TOTAL COSTS (J PLUS K).							<u>\$11,898.00</u>	<u>\$0.00</u>

UTAH STATE UNIVERSITY

PROCESS STUDY -- SHORT GROWTH, DEATH, AND LITTER FALL PROCESSES AS THEY
BEAR ON PRIMARY PRODUCTION OF SOME COLOREDESBT SHRUBS
PROPOSAL 5,2,17

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SLM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
WEST, N. E.	0	0	0	10	0	0	\$0.00	\$2,200.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$2,200.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
E. SECRETARIAL-CLERICAL							\$1,200.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$4,100.00	\$0.00
TECHNICIAN (1/2 TIME)								
TOTAL SALARIES AND WAGES							<u>\$5,300.00</u>	<u>\$2,200.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$318.00	\$242.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$5,618.00</u>	<u>\$2,442.00</u>
F. EXPENDABLE EQUIPMENT AND SUPPLIES								
CHEMICALS AND REAGENTS							\$400.00	\$0.00
DENDROMETERS							\$200.00	\$0.00
SUB-TOTAL							<u>\$600.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
100 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$2,000.00	\$0.00
CURLEW VALLEY								
2 TRIP(S) @ \$250.00/TRIP							\$500.00	\$0.00
PINE VALLEY								
SUB-TOTAL							<u>\$2,500.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$8,718.00</u>	<u>\$2,442.00</u>
K. INDIRECT COSTS 60.00% OF A							\$3,180.00	\$1,320.00
L. TOTAL COSTS (J PLUS K)							<u>\$11,898.00</u>	<u>\$3,762.00</u>

UNIVERSITY OF SOUTHERN CALIFORNIA

VERTEBRATE PROCESS COORDINATOR

	1/10 MAN-MONTHS			N.S.F.			GRANTEE		
	CAL	ACAD	SUM	CAL	ACAD	SUM	N.S.F.	GRANTEE	

A. SALARIES AND WAGES									
1. SENIOR PERSONNEL									
B. FACULTY ASSOCIATES									
CHEW, ROBERT M.	0	10	10	0	10	0	\$3,698.00	\$1,849.00	
SUB-TOTAL							<u>\$3,698.00</u>	<u>\$1,849.00</u>	
2. OTHER PERSONNEL (NON-FACULTY)									
F. SECRETARIAL-CLERICAL									
1 SECRETARY, PART-TIME							\$1,000.00	\$0.00	
TOTAL SALARIES AND WAGES							<u>\$4,698.00</u>	<u>\$1,849.00</u>	
B. FRINGE BENEFITS 07.00% OF A							\$328.00	\$129.00	
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$5,026.00</u>	<u>\$1,978.00</u>	
E. EXPENDABLE EQUIPMENT AND SUPPLIES									
SUPPLIES							\$250.00	\$0.00	
SUB-TOTAL							<u>\$250.00</u>	<u>\$0.00</u>	
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$5,276.00</u>	<u>\$1,978.00</u>	
K. INDIRECT COSTS 44.00% OF A							\$2,067.00	\$813.00	
L. TOTAL COSTS (J PLUS K)							<u>\$7,343.00</u>	<u>\$2,791.00</u>	

NORTHERN ARIZONA UNIVERSITY

PROCESS STUDIES -- DIETS, FOOD PREFERENCES AND REPRODUCTIVE CYCLES OF
SOME DESERT MAMMALS
PROPOSAL 5.3.2

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
A. (CO)PRINCIPAL INVESTIGATOR(S)								
BATEMAN, G. C.	0	0	0	10	0	0	\$0.00	\$1,430.00
BALDA, R. P.	0	0	0	10	0	0	\$0.00	\$1,430.00
VAUGHAN, T. A.	0	0	0	10	0	0	\$0.00	\$1,430.00
SUB-TOTAL							-----\$0.00	-----\$4,290.00
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
3 RESEARCH ASSISTANTS							\$8,160.00	\$0.00
TOTAL SALARIES AND WAGES							-----\$8,160.00	-----\$4,290.00
B. FRINGE BENEFITS 12.00% OF A							\$979.00	\$514.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							-----\$9,139.00	-----\$4,804.00
D. PERMANENT EQUIPMENT								
EQUIPMENT							\$0.00	\$300.00
SUB-TOTAL							-----\$0.00	-----\$300.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							-----\$200.00	-----\$0.00
F. TRAVEL								
1. DOMESTIC								
10 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$200.00	\$0.00
SILVERBELL SITE								
SUB-TOTAL							-----\$200.00	-----\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							-----\$9,539.00	-----\$5,104.00
K. INDIRECT COSTS 34.27% OF C							\$3,131.00	\$1,646.00
L. TOTAL COSTS (J PLUS K)							-----\$12,670.00	-----\$6,750.00

POMONA COLLEGE

PROCESS STUDIES -- NATURAL ACTIVITY PATTERNS AND THERMAL EXPERIENCE IN
DIPodomys MERRIAMII
PROPOSAL 5.3.3

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
WIRTZ, WILLIAM O.	0	30	0	0	0	30	\$2,666.00	\$3,000.00
SUB-TOTAL							<u>\$2,666.00</u>	<u>\$3,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
RESEARCH ASST	80	0	0	0	0	0	\$4,300.00	\$0.00
TOTAL SALARIES AND WAGES.							<u>\$6,966.00</u>	<u>\$3,000.00</u>
B. FRINGE BENEFITS 05.20% OF A							\$362.00	\$156.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$7,328.00</u>	<u>\$3,156.00</u>
D. PERMANENT EQUIPMENT								
RECEIVER, BODY AND AMBIENT TEMPERATURES							\$600.00	\$0.00
RECEIVER, HIGH FREQUENCY							\$350.00	\$0.00
1 WEATHERMEASURE H311 HYGROTHERMOGRAPH							\$165.00	\$0.00
10 HF TRANSMITTERS							\$750.00	\$0.00
100 LARGE SHERMAN LIVE TRAPS							\$270.00	\$0.00
2 WEATHERMEASURE T601 REMOTE RECORDING THERMOGRAPH							\$590.00	\$0.00
5 AMBIENT TEMPERATURE TRANSMITTERS							\$500.00	\$0.00
5 BOYD TEMPERATURE TRANSMITTERS							\$500.00	\$0.00
SUB-TOTAL							<u>\$3,725.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$200.00	\$0.00
SUB-TOTAL							<u>\$200.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
60 TRIP(S) OF 100 MILES @ \$0.10/MILE							\$600.00	\$0.00
DEEP CANYON								
SUB-TOTAL							<u>\$600.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$11,853.00</u>	<u>\$3,156.00</u>
K. INDIRECT COSTS 67.11% ON CAMPUS, 16.93% OFF CAMPUS							\$2,052.00	\$2,013.00
L. TOTAL COSTS (J PLUS K).							<u>\$13,905.00</u>	<u>\$5,169.00</u>

UNIVERSITY OF SOUTHERN CALIFORNIA

PROCESS STUDY - RELATIONSHIP OF REPRODUCTION, MORTALITY, AND GROWTH OF
PEROGNATHUS FERMOSUS AND OTHER DESERT RODENTS TO VEGETATION PRODUCTION
AND DENSITY: AN EXPERIMENTAL STUDY
PROPOSAL 5.3.4

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE		N.S.F.	GRANTEE		
	CAL	ACAD	SUM	CAL			ACAD	SUM

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
CHEW, ROBERT M.	0	0	10	0	20	0	\$2,002.00	\$4,000.00
SUB-TOTAL							<u>\$2,002.00</u>	<u>\$4,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
RESEARCH ASSOCIATE	60	0	0	0	0	0	\$6,383.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
LABOR TO DO MANIPULATIONS OF TEST PLOTS							\$1,340.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$9,725.00</u>	<u>\$4,000.00</u>
B. FRINGE BENEFITS 07.00% OF A							\$680.00	\$280.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$10,405.00</u>	<u>\$4,280.00</u>
D. PERMANENT EQUIPMENT								
COMPONENTS FOR ACTIVITY MONITORS							\$600.00	\$0.00
LIVE TRAPS							\$1,200.00	\$0.00
SUB-TOTAL							<u>\$1,800.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							<u>\$500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
12 TRIP(S) @ \$65.00/TRIP							\$780.00	\$0.00
ROCK VALLEY, MERCURY NEVADA								
80 DAYS AT \$7.50/DAY PER DIFM							\$600.00	\$0.00
SUB-TOTAL							<u>\$1,380.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$14,085.00</u>	<u>\$4,280.00</u>
K. INDIRECT COSTS 44.00% CAMPUS, 26.00% OFF CAMPUS							\$2,883.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$16,968.00</u>	<u>\$4,280.00</u>

UNIVERSITY OF NEVADA AT LAS VEGAS

PROCESS STUDIES - POPULATION STRUCTURE, REPRODUCTION AND FOOD HABIT
STUDIES OF THE GRASSHOPPER MOUSE ONYCHOMYS TORRIDUS.
PROPOSAL 5.3.5

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
BRADLEY, W. G.	0	15	0	0	0	15	\$1,850.00	\$1,850.00
SUB-TOTAL							<u>\$1,850.00</u>	<u>\$1,850.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 GRADUATE RESEARCH ASST.							\$4,000.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
HOURLY WAGE							\$825.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$6,675.00</u>	<u>\$1,850.00</u>
B. FRINGE BENEFITS 07.00% OF A							\$467.00	\$129.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$7,142.00</u>	<u>\$1,979.00</u>
D. PERMANENT EQUIPMENT								
THERMOGRAPHS							\$600.00	\$0.00
TRAPS							\$300.00	\$0.00
2 BLACKLIGHTS, BATTERY POWERED							\$80.00	\$0.00
SUB-TOTAL							<u>\$980.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
OFFICE & FIELD SUPPLIES							\$400.00	\$0.00
SUB-TOTAL							<u>\$400.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
125 TRIP(S) OF 70 MILES @ \$0.10/MILE							\$875.00	\$0.00
ROCK VALLEY								
175 DAYS AT \$6.00/DAY PER DIEM							\$1,050.00	\$0.00
SUB-TOTAL							<u>\$1,925.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$10,447.00</u>	<u>\$1,979.00</u>
K. INDIRECT COSTS 45.44% OF C							\$3,245.00	\$899.00
L. TOTAL COSTS (J PLUS K)							<u>\$13,692.00</u>	<u>\$2,878.00</u>

ARIZONA STATE UNIVERSITY

PROCESS STUDIES - ANNUAL NUTRIENT AND ENERGY INTAKE OF SYLVILAGUS
 AUDUBONI UNDER NATURAL CONDITIONS
 PROPOSAL 5.3.6.

	1/10 MAN-MONTHS						N.S.F.	GPANTEE
	N.S.F.		GPANTEE	CAL ACAD		SUM		
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
REYNOLDS, HUDSON (FEDERAL EMPLOYEE)	0	0	0	0	0	0	\$0.00	\$0.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
3 RESEARCH ASSISTANTS PART-TIME							\$2,075.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$2,075.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 11.20% OF A1 ,A2A,A2B AND C1.00% OF REMAINDER OF A							\$20.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$2,095.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
4 TRIP(S) OF 250 MILES @ \$0.10/MILE							\$100.00	\$0.00
SILVER BELL SITE								
69 DAYS AT \$10.00/DAY PER DIEM							\$690.00	\$0.00
SUB-TOTAL							<u>\$790.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
3. NON-CATEGORIZED ITEMS								
SOIL SAMPLE ANALYSIS							\$800.00	\$0.00
SUB-TOTAL							<u>\$800.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$3,685.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 55.60% OF A							\$1,153.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$4,838.00</u>	<u>\$0.00</u>

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PROCESS STUDIES -- THE CONSUMPTION, UTILIZATION, AND MODIFICATION OF
NUTRITIONAL RESOURCES BY THE JACKRABBIT (LEPUS CALIFORNICUS) IN THE
MOHAVE DESERT
PROPOSAL 5.3.7

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
COSTA, W. P.	0	0	20	0	0	0	\$2,074.00	\$0.00
SHOEMAKER, V. H.	0	0	20	0	0	10	\$3,406.00	\$1,533.00
SUB-TOTAL							<u>\$5,480.00</u>	<u>\$1,533.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
GRADUATE ASSISTANT							\$2,560.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$8,040.00</u>	<u>\$1,533.00</u>
B. FRINGE BENEFITS 13.00% OF A1, A2B AND 00.00% OF REMAINDER OF A							\$712.00	\$199.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$8,752.00</u>	<u>\$1,732.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
CAGES AND TRAPS							\$350.00	\$0.00
COUNTING VIALS AND SCINTILLATION FLUID INGREDIENTS							\$150.00	\$0.00
FEED							\$60.00	\$0.00
FENCING, POSTS, AND OBSERVATION TOWER FOR 10 ACRE ENC.							\$1,000.00	\$0.00
MISC. SUPPLIES (CHEMICALS, GLASSWARE, SYRINGES, NEEDLES)							\$150.00	\$0.00
TRITIATED WATER							\$50.00	\$0.00
SUB-TOTAL							<u>\$1,760.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
15 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$300.00	\$0.00
BARSTOW CALIF. DESERT RESEARCH								
SUB-TOTAL							<u>\$300.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$10,812.00</u>	<u>\$1,732.00</u>
K. INDIRECT COSTS 47% ON CAMPUS, 26% OFF							\$3,343.00	\$720.00
L. TOTAL COSTS (J PLUS K)							<u>\$14,155.00</u>	<u>\$2,452.00</u>

UNIVERSITY OF ARIZONA

PROCESS STUDIES - POPULATION STUDIES OF THE DESERT COTTONTAIL
 (SYLVILAGUS AUDUBONII), BLACK-TAILED JACKRABBIT (LEPUS CALIFORNICUS) AND
 ALLEN'S JACKRABBIT (LEPUS ALLENI) IN THE SONORAN DESERT
 PROPOSAL 5.3.8

	1/10 MAN-MONTHS		N.S.F.		GRANTEE		N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
HUNGERFORD, CHARLES R.	0	0	0	0	2	0	\$0.00	\$425.00
LOWE, CHARLES H.	0	0	0	0	2	0	\$0.00	\$425.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$850.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
2 GRADUATE STUDENTS							\$4,320.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
2 GRADUATE STUDENT ASSISTANTS							\$2,160.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$6,480.00</u>	<u>\$850.00</u>
B. FRINGE BENEFITS 07.00% OF A1, A2A, A2B AND 01.00% OF REMAINDER OF A							\$64.00	\$59.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$6,544.00</u>	<u>\$909.00</u>
D. PERMANENT EQUIPMENT								
TELEMETRY: RECEIVER, ANTENNA, 15 TRANSMITTERS, ETC.							\$800.00	\$0.00
SUB-TOTAL							<u>\$800.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
OFFICE & FIELD SUPPLIES							\$600.00	\$0.00
SUB-TOTAL							<u>\$600.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
60 TRIP(S) OF 60 MILES @ \$0.10/MILE							\$480.00	\$0.00
TUCSON, SANTA RITA, SILVER BELL								
SUB-TOTAL							<u>\$480.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$8,424.00</u>	<u>\$909.00</u>
K. INDIRECT COSTS 44.95% OF A							\$2,912.00	\$382.00
L. TOTAL COSTS (J PLUS K)							<u>\$11,336.00</u>	<u>\$1,291.00</u>

UNIVERSITY OF ARIZONA

PROCESS STUDY - POPULATION STRUCTURE, FORAGING BEHAVIOR, AND DAILY
MOVEMENTS OF CERTAIN SONORAN DESEBT BIRDS
PROPOSAL 5.3.9

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
RUSSELL, STEPHEN M. PROJECT LEADER	0	0	20	0	5	0	\$2,840.00	\$700.00
SUB-TOTAL							<u>\$2,840.00</u>	<u>\$700.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
SMITH, E. LINWOOD	0	0	15	0	0	0	\$1,400.00	\$0.00
C. GRADUATE STUDENTS								
2 RESEARCH ASSISTANTS, 1000 HOURS							\$3,000.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
STUDENT ASSISTANTS 1600 HOURS							\$3,200.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$10,440.00</u>	<u>\$700.00</u>
B. FRINGE BENEFITS 07.00% OF A1 ,A2A,A2B AND 01.00% OF REMAINDER OF A							\$358.00	\$49.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$10,798.00</u>	<u>\$749.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
BANDING MATERIALS							\$125.00	\$0.00
OFFICE & FIELD SUPPLIES							\$250.00	\$0.00
SUB-TOTAL							<u>\$375.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
180 TRIP(S) OF 100 MILES @ \$0.10/MILE							\$1,800.00	\$0.00
TUCSON, SILVER BELL, SANTA RITA								
SUB-TOTAL							<u>\$1,800.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$12,973.00</u>	<u>\$749.00</u>
K. INDIRECT COSTS 44.95% OF A							\$4,692.00	\$314.00
L. TOTAL COSTS (J PLUS K)							<u>\$17,665.00</u>	<u>\$1,063.00</u>

UNIVERSITY OF CALIFORNIA, LOS ANGELES

PROCESS STUDIES -- REPRODUCTION AND SURVIVORSHIP OF THE LIZARD, UTA STANSBURIANA, AND THE EFFECTS OF WINTER RAINFALL, DENSITY, AND PREDATION ON THESE PROCESSES.
PROPOSAL 5.2.10

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
TURNER, FREDERICK B.	10	0	0	0	0	0	\$1,733.00	\$0.00
SUB-TOTAL							<u>\$1,733.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
RESEARCH ASSOCIATE	10	0	0	0	0	0	\$1,048.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
LABORATORY TECHNICIAN SIX MONTHS, CALENDAR							\$3,300.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$6,081.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 13.00% OF A1, A2B AND 10.00% OF REMAINDER OF A							\$660.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$6,741.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
4 TRIP(S) @ \$54.00/TRIP							\$216.00	\$0.00
ROCK VALLEY (TEMPE)								
4 TRIP(S) @ \$100.00/TRIP							\$400.00	\$0.00
ROCK VALLEY - (WESTWOOD)								
SUB-TOTAL							<u>\$616.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$7,357.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 47.00% OF A ON CAMPUS 27.00% OFF							\$1,989.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u><u>\$9,346.00</u></u>	<u><u>\$0.00</u></u>

BRIGHAM YOUNG UNIVERSITY

PROCESS STUDY - DEMOGRAPHY AND INDIVIDUAL GROWTH OF *DIPLODOMYS MERRIAMII*,
D. MICROPS, *D. BOHII*, AND *PEROMYSCUS MANICULATUS*
 PROPOSAL 5.3.11

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
JORGENSEN, CLIVE D.	0	0	20	0	10	0	\$3,871.00	\$1,935.00
SMITH, H. DUANE	0	10	20	0	10	0	\$2,907.00	\$1,455.00
SUB-TOTAL							<u>\$6,778.00</u>	<u>\$3,390.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 GRADUATE RESEARCH ASST 50% A/Y FULL SUM							\$3,700.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
HOURLY WAGES							\$200.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$10,678.00</u>	<u>\$3,390.00</u>
B. FRINGE BENEFITS 00.00% OF A							\$0.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$10,678.00</u>	<u>\$3,390.00</u>
D. EXPENDABLE EQUIPMENT AND SUPPLIES								
CAGE BREAKAGE							\$100.00	\$0.00
MOUSE NESTING MATERIALS							\$107.00	\$0.00
RODENT FOOD							\$360.00	\$0.00
SUB-TOTAL							<u>\$567.00</u>	<u>\$0.00</u>
E. TRAVEL								
1. DOMESTIC								
15 TRIP(S) OF 140 MILES @ \$0.11/MILE							\$231.00	\$0.00
BEN MORE STATION								
20 TRIP(S) OF 252 MILES @ \$0.11/MILE							\$554.00	\$0.00
PINE VALLEY								
4 TRIP(S) OF 940 MILES @ \$0.11/MILE							\$413.00	\$0.00
ROCK VALLEY								
SUB-TOTAL							<u>\$1,198.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$12,443.00</u>	<u>\$3,390.00</u>
K. INDIRECT COSTS 40.00% OF A							\$4,271.00	\$1,356.00
L. TOTAL COSTS (J PLUS K)							<u>\$16,714.00</u>	<u>\$4,746.00</u>

IDAHO STATE UNIVERSITY

PROCESS STUDIES -- FOOD HABITS OF THE JACKRABBIT AND OF RODENTS IN THE
NORTHERN DESERTS
PROPOSAL 5.3.12

	1/10 MAN-MONTHS			GRANTEE			N.S.F.	GRANTEE
	N.S.F.		SUM	CAL ACAD		SUM		
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
SAUL, WILLIAM E. PROJECT LEADER	0	0	20	0	18	0	\$3,036.00	\$2,734.00
SUB-TOTAL							<u>\$3,036.00</u>	<u>\$2,734.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 GRADUATE ASSISTANT							\$3,600.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$6,636.00</u>	<u>\$2,734.00</u>
B. FRINGE BENEFITS 14.00% OF A							\$929.00	\$382.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$7,565.00</u>	<u>\$3,116.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
FIELD SUPPLIES							\$350.00	\$0.00
SUB-TOTAL							<u>\$350.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
3 TRIP(S) OF 2,200 MILES @ \$0.10/MILE							\$660.00	\$0.00
CURLEY VALLEY AND OTHER GREAT BASIN SITES								
SUB-TOTAL							<u>\$660.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$8,575.00</u>	<u>\$3,116.00</u>
K. INDIRECT COSTS 43.90% OF A							\$2,913.00	\$1,200.00
L. TOTAL COSTS (J PLUS K)							<u>\$11,488.00</u>	<u>\$4,316.00</u>

UTAH STATE UNIVERSITY

PROCESS STUDIES -- GROWTH, REPRODUCTIVE, AND MORTALITY RATES OF BLACK-
 TAILED JACKRABBITS (LEPUS CALIFORNICUS) AS FUNCTIONS OF ENVIRONMENTAL
 FACTORS AND POSSIBLE ECOTYPIC VARIATIONS
 PROPOSAL 5-3-13

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
WAGNER, FREDERIC H. PROJECT LEADER	0	0	0	6	0	0	\$0.00	\$850.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$850.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
STODDART, CHARLES	40	0	0	0	0	0	\$2,700.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
ANIMAL CARETAKER							\$500.00	\$0.00
LABORATORY TECHNICIAN							\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$4,200.00</u>	<u>\$850.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$252.00	\$93.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$4,452.00</u>	<u>\$943.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$1,000.00	\$0.00
SUB-TOTAL							<u>\$1,000.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
100 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$2,000.00	\$0.00
ROCK VALLEY, CURLEW								
4 TRIP(S) OF 1,500 MILES @ \$0.10/MILE							\$600.00	\$0.00
JORNADA								
SUB-TOTAL							<u>\$2,600.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$8,052.00</u>	<u>\$943.00</u>
K. INDIRECT COSTS 60.00% OF A							\$2,520.00	\$510.00
L. TOTAL COSTS (J PLUS K)							<u>\$10,572.00</u>	<u>\$1,453.00</u>

UNIVERSITY OF ARIZONA

INVERTEBRATE PROCESS STUDY COORDINATOR

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
WERNER, FLOYD G.	17	0	0	8	0	0	\$3,266.00	\$1,633.00
SUB-TOTAL							<u>\$3,266.00</u>	<u>\$1,633.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
E. SECRETARIAL-CLERICAL								
1 SECRETARY, PART-TIME							\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$4,266.00</u>	<u>\$1,633.00</u>
B. FRINGE BENEFITS 07.00% OF A1 ,A2A,A2B AND 01.00% OF REMAINDER OF A							\$238.00	\$114.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$4,504.00</u>	<u>\$1,747.00</u>
F. EXPENDABLE EQUIPMENT AND SUPPLIES								
OFFICE SUPPLIES							\$250.00	\$0.00
SUB-TOTAL							<u>\$250.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$4,754.00</u>	<u>\$1,747.00</u>
K. INDIRECT COSTS 44.95% OF A							\$1,917.00	\$734.00
L. TOTAL COSTS (J PLUS K)							<u>\$6,671.00</u>	<u>\$2,481.00</u>

UNIVERSITY OF NEW MEXICO

PROCESS STUDIES -- THE ROLE OF ORTHOPORUS ORNATUS MILLIPEDES IN A DESERT ECOSYSTEM
PROPOSAL 5.4.2

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
CRAWFORD, CLIFFORD S.	0	10	0	0	0	5	\$1,452.00	\$499.00
SUB-TOTAL							<u>\$1,452.00</u>	<u>\$499.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$3,755.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$5,207.00</u>	<u>\$499.00</u>
B. FRINGE BENEFITS 10.50% OF A							\$546.00	\$52.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$5,753.00</u>	<u>\$551.00</u>
F. EXPENDABLE EQUIPMENT AND SUPPLIES								
MISC. ITEMS SUCH AS DIGGING AND MARKING MATERIALS							\$500.00	\$0.00
SUB-TOTAL							<u>\$500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
100 TRIP(S) OF 40 MILES @ \$0.10/MILE JORNADA							\$400.00	\$0.00
10 TRIP(S) OF 90 MILES @ \$0.10/MILE LAS CRUCES - EL PASO							\$90.00	\$0.00
20 TRIP(S) @ \$48.00/TRIP AIR TRAVEL BETWEEN ALBUQUERQUE AND EL PASO							\$960.00	\$0.00
35 DAYS AT \$20.00/DAY PER DIEM PROJECT LEADER							\$700.00	\$0.00
5 DAYS AT \$25.00/DAY PER DIEM PROJECT LEADER							\$125.00	\$0.00
68 DAYS AT \$20.00/DAY PER DIEM RESEARCH ASST.							\$1,360.00	\$0.00
SUB-TOTAL							<u>\$3,635.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$9,888.00</u>	<u>\$551.00</u>
K. INDIRECT COSTS 36.00% OF A							\$1,874.00	\$179.00
L. TOTAL COSTS (J PLUS K)							<u>\$11,762.00</u>	<u>\$730.00</u>

NORTHERN ARIZONA UNIVERSITY

PROCESS STUDIES -- SEED CONSUMPTION BY BRUCHIDAE OF THE SONORAN DESERT
 (COLEOPTERA)
 PROPOSAL 5443

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
JOHNSON, CLARENCE D.	0	0	10	0	5	0	\$1,650.00	\$825.00
SUB-TOTAL							<u>\$1,650.00</u>	<u>\$825.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASST. FROM JULY							\$3,050.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
PART-TIME LABOR							\$1,500.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$6,200.00</u>	<u>\$825.00</u>
B. FRINGE BENEFITS 12.00% OF A							\$744.00	\$99.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$6,944.00</u>	<u>\$924.00</u>
F. TRAVEL								
1. DOMESTIC								
8 TRIP(S) OF 700 MILES @ \$0.17/MILE							\$952.00	\$0.00
FLAUFSTAFF TO TUCSON								
50 DAYS AT \$6.50/DAY PER DIEM							\$325.00	\$0.00
SUB-TOTAL							<u>\$1,277.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$8,221.00</u>	<u>\$924.00</u>
K. INDIRECT COSTS 34.27% OF C							\$2,379.00	\$316.00
L. TOTAL COSTS (J PLUS K)							<u>\$10,600.00</u>	<u>\$1,240.00</u>

UNIVERSITY OF ARIZONA

PROCESS STUDY - DEMOGRAPHY OF TERMITES COLONIES IN RELATION TO VARIOUS ENVIRONMENTAL FACTORS
PROPOSAL 2444

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
NUTTING, WILLIAM L.			0	0	0	5	0	0
SUB-TOTAL							\$0.00	\$1,050.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$1,050.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 GRADUATE ASSOCIATE IN RESEARCH							\$4,500.00	\$0.00
1 GRADUATE ASSISTANT IN RESEARCH							\$3,800.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
PART-TIME STUDENT HELP, 400 HR @ 1.75/HR AVG							\$700.00	\$0.00
SUB-TOTAL							<u>\$9,000.00</u>	<u>\$1,050.00</u>
TOTAL SALARIES AND WAGES							<u>\$9,000.00</u>	<u>\$1,050.00</u>
B. FRINGE BENEFITS 07.00% OF A1, A2A, A2B AND 01.00% OF REMAINDER OF A							\$90.00	\$73.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$9,090.00</u>	<u>\$1,123.00</u>
D. PERMANENT EQUIPMENT								
1 STEREOMICROSCOPE, WILD M-5, LAMP, TRANSFORMER,							\$1,100.00	\$0.00
SUB-TOTAL							<u>\$1,100.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
NEST MATERIALS, GLASSWARE AND LABORATORY SUPPLIES							\$200.00	\$0.00
SUB-TOTAL							<u>\$200.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
52 TRIP(S) OF 80 MILES @ \$0.10/MILE							\$416.00	\$0.00
TUCSON TO SILVER BELL, SANTA RITA								
SUB-TOTAL							<u>\$416.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$10,806.00</u>	<u>\$1,123.00</u>
K. INDIRECT COSTS 44.95% OF A							\$4,045.00	\$471.00
L. TOTAL COSTS (J PLUS K)							<u>\$14,851.00</u>	<u>\$1,594.00</u>

UNIVERSITY OF ARIZONA

PROCESS STUDIES - DEMOGRAPHY, FORAGING ACTIVITY OF THE LEAF-CUTTER ANT,
ACROMYRMEX VERSICOLOR, IN RELATION TO COLONY SIZE AND LOCATION, SEASON,
VEGETATION, AND TEMPERATURE
PROPOSAL 5.4.5

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
WERNER, FLOYD G.	0	0	0	3	0	0	\$0.00	\$400.00
SUB-TOTAL							-----\$0.00	-----\$400.00
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 GRADUATE ASSISTANT IN RESEARCH							\$3,360.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
1 500 HR @ 1.75 HR/AV., PART-TIME STUDENT HELP							\$875.00	\$0.00
TOTAL SALARIES AND WAGES							-----\$4,235.00	-----\$400.00
B. FRINGE BENEFITS 07.00% OF A1, A2A, A2B AND C1.00% OF REMAINDER OF A							\$42.00	\$28.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							-----\$4,277.00	-----\$428.00
D. PERMANENT EQUIPMENT								
10 ELECTRONIC ANT MONITORING UNITS @ 50.00							\$500.00	\$0.00
SUB-TOTAL							-----\$500.00	-----\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
LABORATORY AND FIELD SUPPLIES							\$300.00	\$0.00
SUB-TOTAL							-----\$300.00	-----\$0.00
F. TRAVEL								
1. DOMESTIC								
40 TRIP(S) OF 80 MILES @ \$0.10/MILE							\$320.00	\$0.00
SANTA RITA, SILVER BELL								
SUB-TOTAL							-----\$320.00	-----\$0.00
I. OTHER COSTS								
3. NON-CATEGORIZED ITEMS								
BACK-HOE RENTAL							\$100.00	\$0.00
SUB-TOTAL							-----\$100.00	-----\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							-----\$5,497.00	-----\$428.00
K. INDIRECT COSTS 44.95% OF A							\$1,903.00	\$179.00
L. TOTAL COSTS (J PLUS K)							-----\$7,400.00	-----\$607.00

UNIVERSITY OF ARIZONA

PROCESS STUDY - CONSUMPTION OF LABREA BY CHEWING INSECTS
 PROPOSAL 5.4.6

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
WERNER, FLOYD G.	0	0	0	3	0	0	\$0.00	\$400.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$400.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 GRADUATE ASSISTANT IN RESEARCH							\$3,800.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
1 PART-TIME STUDENT HELP, 400 HR @ 1.75/HR AVG							\$700.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$4,500.00</u>	<u>\$400.00</u>
B. FRINGE BENEFITS 07.00% OF A1, A2A, A2B AND 01.00% OF REMAINDER OF A							\$45.00	\$28.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$4,545.00</u>	<u>\$428.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
CAGES, FIELD AND LABORATORY SUPPLIES							\$250.00	\$0.00
SUB-TOTAL							<u>\$250.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
40 TRIP(S) OF 100 MILES @ \$0.10/MILE							\$400.00	\$0.00
SILVER BELL								
50 TRIP(S) OF 20 MILES @ \$0.10/MILE							\$100.00	\$0.00
LOCAL								
SUB-TOTAL							<u>\$500.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$5,295.00</u>	<u>\$428.00</u>
K. INDIRECT COSTS 44.95% OF A							\$2,022.00	\$179.00
L. TOTAL COSTS (J PLUS K)							<u>\$7,317.00</u>	<u>\$607.00</u>

NEW MEXICO STATE UNIVERSITY

PROCESS STUDIES -- DEMOGRAPHY AND BICENERGETICS OF HERRIVOROUS ANTS IN
A DESERT ECOSYSTEM AS FUNCTIONS OF VEGETATION AND SOIL TYPE, AND OF
WEATHER VARIABLES
PROPOSAL 547

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE		SUM			
	CAL	ACAD	SLM	CAL	ACAD	SUM	N.S.F.	GRANTEE

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
WHITFORD, W. G. (VALIDATION COORD.)	0	0	0	0	0	20	\$0.00	\$3,180.00
ZIMMERMAN, J. R.	0	0	10	0	0	10	\$1,760.00	\$1,760.00
SUB-TOTAL							<u>\$1,760.00</u>	<u>\$4,940.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASST							\$4,000.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
1 UNDERGRADUATE HOURLY 1000 HRS. @ 1.75							\$1,750.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$7,510.00</u>	<u>\$4,940.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$522.00	\$627.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$8,032.00</u>	<u>\$5,567.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$1,000.00	\$0.00
SUB-TOTAL							<u>\$1,000.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
100 TRIP(S) OF 160 MILES @ \$0.10/MILE							\$1,600.00	\$0.00
JORNADA, LOCAL								
SUB-TOTAL							<u>\$1,600.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
3. NON-CATEGORIZED ITEMS								
BACK HOE RENTAL							\$600.00	\$0.00
SUB-TOTAL							<u>\$600.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$11,232.00</u>	<u>\$5,567.00</u>
K. INDIRECT COSTS 41.00% OF A							\$3,079.00	\$2,025.00
L. TOTAL COSTS (J PLUS K).							<u>\$14,311.00</u>	<u>\$7,592.00</u>

IDAHO STATE UNIVERSITY

PROCESS STUDY - THE EFFECTS OF COMPOSITE PHYTOPHAGOUS INVERTEBRATE
ACTIVITY ON PRIMARY PRODUCTION IN CURLEW VALLEY.
PROPOSAL 5.4.3

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
ANDERSON, ROBERT C.	0	0	2	0	0	1	\$2,600.00	\$1,300.00
SUB-TOTAL							<u>\$2,600.00</u>	<u>\$1,300.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$6,800.00	\$0.00
2 RESEARCH ASSISTANTS								
TOTAL SALARIES AND WAGES.							<u>\$9,400.00</u>	<u>\$1,300.00</u>
B. FRINGE BENEFITS 14.00% OF A							\$1,316.00	\$182.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$10,716.00</u>	<u>\$1,482.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
FENCING OF AREA							\$1,400.00	\$0.00
FIELD SUPPLIES, CHEMICALS							\$400.00	\$0.00
SUB-TOTAL							<u>\$1,800.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
40 TRIP(S) OF 140 MILES @ \$0.10/MILE							\$560.00	\$0.00
CURLEW VALLEY								
SUB-TOTAL							<u>\$560.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$13,076.00</u>	<u>\$1,482.00</u>
K. INDIRECT COSTS 43.90% OF A							\$4,126.00	\$570.00
L. TOTAL COSTS (J PLUS K).							<u>\$17,202.00</u>	<u>\$2,052.00</u>

UNIVERSITY OF IDAHO

PROCESS STUDIES -- INGESTION, DEFECACTION AND GROWTH RATES OF GRASSHOPPERS
IN THE DESERT BIOME
PROPOSAL 5.4.9

	1/10 MAN-MONTHS						N.S.F.		GRANTEE	
	N.S.F.		GRANTEE		N.S.F.		GRANTEE			
	CAL	ACAD	SUM	CAL	ACAD	SUM				

A. SALARIES AND WAGES										
1. SENIOR PERSONNEL										
B. FACULTY ASSOCIATES										
BRUSVEN, MERLYN A. PROJECT LEADER	0	0	0	10	0	0	\$0.00		\$1,200.00	
SUB-TOTAL							<u>\$0.00</u>		<u>\$1,200.00</u>	
2. OTHER PERSONNEL (NON-FACULTY)										
C. GRADUATE STUDENTS										
1 RESEARCH ASSISTANT							\$3,180.00		\$0.00	
E. SECRETARIAL-CLERICAL										
1 SECRETARY, PART-TIME							\$0.00		\$400.00	
F. TECHNICAL, SHOP, AND OTHER PART-TIME LABOUR							\$750.00		\$0.00	
TOTAL SALARIES AND WAGES							<u>\$3,930.00</u>		<u>\$1,600.00</u>	
B. FRINGE BENEFITS 14.00% OF A							\$235.00		\$96.00	
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$4,165.00</u>		<u>\$1,696.00</u>	
D. PERMANENT EQUIPMENT										
CONTROLLED TEMPERATURE CHAMBER							\$450.00		\$0.00	
PAN OXYGEN BOMB CALORIMETER							\$760.00		\$0.00	
RECORDING HYGROTHERMOGRAPH							\$235.00		\$0.00	
SUB-TOTAL							<u>\$1,445.00</u>		<u>\$0.00</u>	
E. EXPENDABLE EQUIPMENT AND SUPPLIES										
LABORATORY SUPPLIES							\$550.00		\$0.00	
SUB-TOTAL							<u>\$550.00</u>		<u>\$0.00</u>	
F. TRAVEL										
1. DOMESTIC										
3 TRIP(S) OF 1,000 MILES @ \$0.10/MILE							\$300.00		\$0.00	
CURLEW VALLEY										
SUB-TOTAL							<u>\$300.00</u>		<u>\$0.00</u>	
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$6,460.00</u>		<u>\$1,696.00</u>	
K. INDIRECT COSTS 43.90% OF A							\$1,230.00		\$500.00	
L. TOTAL COSTS (J PLUS K)							<u>\$7,690.00</u>		<u>\$2,196.00</u>	

UTAH STATE UNIVERSITY

PROGRESS STUDIES - DEMOGRAPHIC AND BIOENERGETIC STUDIES OF CUIWORMS IN
CURLEW VALLEY
PROPOSAL 54410

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
HANSON, WILFORD J.	20	0	0	0	0	0	\$2,000.00	\$0.00
KNOWLTON, GEORGE F.	20	0	0	0	0	0	\$2,000.00	\$0.00
SUB-TOTAL							<u>\$4,000.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$3,900.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
1 PART-TIME LABOR							\$300.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$8,200.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$692.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$8,892.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
MISCELLANEOUS SMALL ITEMS							\$250.00	\$0.00
SUB-TOTAL							<u>\$250.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
48 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$960.00	\$0.00
CURLEW VALLEY AND VICINITY								
SUB-TOTAL							<u>\$960.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$10,102.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 60.00% OF A							\$4,920.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$15,022.00</u>	<u>\$0.00</u>

UTAH STATE UNIVERSITY

PROCESS STUDIES - DEMOGRAPHIC STUDIES OF SAGEBRUSH INSECTS AS FUNCTIONS
OF VARIOUS ENVIRONMENTAL FACTORS
PROPOSAL 5,4,11

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
HSIAO, TING H.	0	0	0	0	0	0	\$0.00	\$0.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$4,200.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$1,600.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$5,800.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$348.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$6,148.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
INSECT CAGES							\$300.00	\$0.00
OFFICE & FIELD SUPPLIES							\$300.00	\$0.00
SUB-TOTAL							<u>\$600.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
50 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$1,000.00	\$0.00
CURLEW VALLEY								
SUB-TOTAL							<u>\$1,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$7,748.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 60.00% OF A							\$3,480.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$11,228.00</u>	<u>\$0.00</u>

TEXAS TECH UNIVERSITY

PROCESS STUDIES - ECOLOGY OF IMPORTANT INSECTS ATTACKING PROSOPIS AND A
FIRST APPROXIMATION OF THEIR EFFECTS ON THESE PLANTS.
PROPOSAL 9.4.12

	1/10 MAN-MONTHS			GRANTEE			N.S.F.	GRANTEE
	N.S.F.	CAL	ACAD	SUM	CAL	ACAD		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
WARD, CHARLES R.	0	25	15	0	1	0	\$5,510.00	\$1,390.00
SUB-TOTAL							<u>\$5,510.00</u>	<u>\$1,390.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$3,600.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$1,200.00	\$0.00
E. SECRETARIAL-CLERICAL								
SECRETARIAL							\$0.00	\$600.00
TOTAL SALARIES AND WAGES							<u>\$10,310.00</u>	<u>\$1,990.00</u>
B. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A							\$206.00	\$39.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$10,516.00</u>	<u>\$2,029.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
MISC FIELD AND OFFICE SUPPLIES							\$1,775.00	\$1,400.00
SUB-TOTAL							<u>\$1,775.00</u>	<u>\$1,400.00</u>
F. TRAVEL								
1. DOMESTIC								
10 TRIP(S) @ \$137.70/TRIP							\$1,377.00	\$0.00
LUBBOCK TEXAS TO JORNADA								
SUB-TOTAL							<u>\$1,377.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$13,668.00</u>	<u>\$3,429.00</u>
K. INDIRECT COSTS 60.00% OF A 18.28 OFF CAMPUS							\$1,885.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$15,553.00</u>	<u>\$3,429.00</u>

NEW MEXICO STATE UNIVERSITY

MICROORGANISM COORDINATOR

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
STAFFELDT, E. E.			0	0	0	0	\$2,014.00	\$2,014.00
SUB-TOTAL							<u>\$2,014.00</u>	<u>\$2,014.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
F. SECRETARIAL-CLERICAL							\$1,000.00	\$0.00
(1/4 TIME)								
TOTAL SALARIES AND WAGES							<u>\$3,014.00</u>	<u>\$2,014.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$307.00	\$255.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$3,321.00</u>	<u>\$2,269.00</u>
F. EXPENDABLE EQUIPMENT AND SUPPLIES								
MISCELLANEOUS OFFICE SUPPLIES							\$250.00	\$0.00
SUB-TOTAL							<u>\$250.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$3,571.00</u>	<u>\$2,269.00</u>
K. INDIRECT COSTS 41.00% OF A							\$1,235.00	\$825.00
L. TOTAL COSTS (J PLUS K)							<u><u>\$4,806.00</u></u>	<u><u>\$3,094.00</u></u>

UTAH STATE UNIVERSITY

PROCESS STUDIES -- THE ROLE OF ALGAE IN CRUST FORMATION AND NITROGEN
CYCLING IN DESERT SOILS
PROPOSAL 5.5.2

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
LYNN, RAYMOND I.	0	0	0	0	0	0	\$0.00	\$0.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$6,200.00	\$0.00
2 RESEARCH ASSISTANTS								
D. PRE-BACCALAUREATE STUDENTS							\$830.00	\$0.00
PART-TIME								
TOTAL SALARIES AND WAGES.							<u>\$7,030.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$421.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$7,451.00</u>	<u>\$0.00</u>
D. PERMANENT EQUIPMENT								
CAMERA & LENSES FOR MICROPHOTOGRAPHY							\$675.00	\$0.00
REFRIGERATED CENTRIFUGE AND ACCESSORIES							\$4,000.00	\$0.00
SUB-TOTAL							<u>\$4,675.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
GLASS-WARE, COLLECTION BAGS, C14 ISOTOPES, MEDIA ETC							\$500.00	\$0.00
SUB-TOTAL							<u>\$500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
5 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$100.00	\$0.00
CURLEW VALLEY								
6 TRIP(S) @ \$250.00/TRIP							\$1,500.00	\$0.00
JORNADA, TUCSON, ROCK VALLEY								
SUB-TOTAL							<u>\$1,600.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
1. CONSULTANTS								
ROY CAMERON 14 DAYS @ 100/DAY							\$1,400.00	\$0.00
SUB-TOTAL							<u>\$1,400.00</u>	<u>\$0.00</u>
3. NON-CATEGORIZED ITEMS								
RENTAL ON ENVIRONMENTAL GROWTH CHAMBERS							\$200.00	\$0.00
RENTALS ON CARBON ANALYZER							\$500.00	\$0.00
SOILS ANALYSIS FOR CONSULTANTS							\$1,800.00	\$0.00
SUB-TOTAL							<u>\$2,500.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$18,126.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 60.00% OF A							\$4,218.00	\$0.00
L. TOTAL COSTS (J PLUS K).							<u>\$22,344.00</u>	<u>\$0.00</u>

NEW MEXICO STATE UNIVERSITY

PROCESS STUDIES - EFFECTS OF MOISTURE AND TEMPERATURE ON PROTEIN
DECOMPOSITION
PROPOSAL 5.5.3

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
O'BRIEN, ROBERT T.	0	0	10	0	0	10	\$1,766.00	\$1,766.00
SUB-TOTAL							<u>\$1,766.00</u>	<u>\$1,766.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$3,800.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$5,566.00</u>	<u>\$1,766.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$421.00	\$224.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$5,987.00</u>	<u>\$1,990.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
OFFICE & FIELD SUPPLIES							\$1,000.00	\$0.00
SUB-TOTAL							<u>\$1,000.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
20 TRIP(S) OF 100 MILES @ \$0.10/MILE							\$200.00	\$0.00
LAS CRUS - JORNADA								
SUB-TOTAL							<u>\$200.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$7,187.00</u>	<u>\$1,990.00</u>
K. INDIRECT COSTS 41.00% OF A							\$2,282.00	\$724.00
L. TOTAL COSTS (J PLUS K)							<u>\$9,469.00</u>	<u>\$2,714.00</u>

UNIVERSITY OF ARIZONA

PROCESS STUDIES - GASEOUS LOSSES OF NITROGEN FROM THE SOIL OF SEMI-ARID
REGIONS
PROPOSAL 5.5.4

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.	GRANTEE		N.S.F.	GRANTEE			
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
TICKER, T. C.	0	0	0	0	0	15	\$0.00	\$1,500.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$1,500.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$5,000.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$2,000.00	\$0.00
PART-TIME								
F. TECHNICAL, SHOP, AND OTHER							\$500.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$7,500.00</u>	<u>\$1,500.00</u>
B. FRINGE BENEFITS 07.00% OF A1, A2A, A2B AND 01.00% OF REMAINDER OF A							\$75.00	\$105.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$7,575.00</u>	<u>\$1,605.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
MASS-SPECTROMETER AND GAS-CHROMATOGRAPH MAINTENANCE							\$3,000.00	\$0.00
SUB-TOTAL							<u>\$3,000.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
8 TRIP(S) OF 125 MILES @ \$0.10/MILE							\$100.00	\$0.00
SILVER BELL, SANTA RITA								
SUB-TOTAL							<u>\$100.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$10,675.00</u>	<u>\$1,605.00</u>
K. INDIRECT COSTS 44.95% OF A							\$3,371.00	\$674.00
L. TOTAL COSTS (J PLUS K)							<u>\$14,046.00</u>	<u>\$2,279.00</u>

UTAH STATE UNIVERSITY

PROCESS STUDIES - NITROGEN IN ARID WESTERN SOILS II -- DENITRIFICATION
AND NITROGEN DYNAMICS IN STANDS DOMINATED BY SOME MAJOR COLD DESERT
SHRUBS
PROPOSAL 5.5.5

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
SKUJINS, JOHN J.	0	0	0	0	0	20	\$0.00	\$3,000.00
WEST, N. E.	0	0	0	0	0	20	\$0.00	\$3,000.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$6,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$3,500.00	\$0.00
1 PART-TIME							\$1,500.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
TECHNICIAN (1/2 TIME)							\$4,100.00	\$0.00
TOTAL SALARIES AND WAGES.							<u>\$9,100.00</u>	<u>\$6,000.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$546.00	\$660.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$9,646.00</u>	<u>\$6,660.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
CHEMICALS AND REAGENTS							\$800.00	\$0.00
GAS CHROMATOGRAPH OPERATION							\$800.00	\$0.00
GLASSWARE							\$500.00	\$0.00
MASS SPECTROGRAPH OPERATION							\$500.00	\$0.00
N-15 COMPOUNDS							\$1,200.00	\$0.00
PLEXIGLASS CUVETTES							\$1,200.00	\$0.00
WET AND DRY PRECIPITATION GAUGES							\$1,500.00	\$0.00
SUB-TOTAL							<u>\$6,500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
60 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$1,200.00	\$0.00
CURLEW VALLEY								
SUB-TOTAL							<u>\$1,200.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$17,346.00</u>	<u>\$6,660.00</u>
K. INDIRECT COSTS 60.00% OF A							\$5,460.00	\$3,600.00
L. TOTAL COSTS (J PLUS K).							<u>\$22,806.00</u>	<u>\$10,260.00</u>

UNIVERSITY OF NEVADA, D.R.I.

PROCESS STUDY - STUDIES IN THE DECOMPOSITION AND MINERALIZATION IN AN
ARTEMISIA TRIDENTATA COMMUNITY IN NORTHERN NEVADA
PROPOSAL 5.5.6

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
COMANCR, PETER L.	20	0	0	0	0	0	\$2,200.00	\$0.00
PRUSSO, DON C.	20	0	0	0	0	0	\$2,400.00	\$0.00
SUB-TOTAL							<u>\$4,600.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$3,200.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$500.00	\$0.00
TOTAL SALARIES AND WAGES.							<u>\$8,300.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 07.00% OF A							\$581.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$8,881.00</u>	<u>\$0.00</u>
D. PERMANENT EQUIPMENT								
HYGROTHERMOGRAPH AND CHARTS							\$185.00	\$0.00
INCUBATOR							\$525.00	\$0.00
PYRANOGRAPH AND CHARTS							\$265.00	\$0.00
THREE POINT THERMOGRAPH							\$365.00	\$0.00
SUB-TOTAL							<u>\$1,340.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
MISCELLANEOUS, GLASSWARE, CHEMICAL ETC.							\$1,050.00	\$0.00
SUB-TOTAL							<u>\$1,050.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
20 TRIP(S) OF 100 MILES @ \$0.10/MILE							\$200.00	\$0.00
LOCAL - FIELD SITES								
SUB-TOTAL							<u>\$200.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$11,471.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 45.44% OF C							\$4,035.00	\$0.00
L. TOTAL COSTS (J PLUS K).							<u>\$15,506.00</u>	<u>\$0.00</u>

UTAH STATE UNIVERSITY

PROCESS STUDIES -- NITROGEN AND CARBON FLUX IN A SOIL-VEGETATION COMPLEX
 IN THE DESERT BIOME
 PROPOSAL 5,5,7

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
FLETCHER, JOEL F.	0	0	0	0	0	10	\$0.00	\$1,800.00
PORCELLA, D. B.	0	0	0	0	0	10	\$0.00	\$1,800.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$3,600.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
2 RESEARCH ASSISTANTS							\$6,600.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
UNDERGRADUATE ASST. 1/4 TIME							\$900.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$7,500.00</u>	<u>\$3,600.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$450.00	\$396.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$7,950.00</u>	<u>\$3,996.00</u>
D. PERMANENT EQUIPMENT								
1 MICROKJELDAHL APPARATUS INCLUDING GLASSWARE							\$400.00	\$0.00
SUB-TOTAL							<u>\$400.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
GLASSWARE, CHEMICALS, PLOT MARKERS AND COLLECTORS,							\$2,000.00	\$0.00
SUB-TOTAL							<u>\$2,000.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
60 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$1,200.00	\$0.00
CURLEW VALLEY								
SUB-TOTAL							<u>\$1,200.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$11,550.00</u>	<u>\$3,996.00</u>
K. INDIRECT COSTS 60.00% OF A							\$4,500.00	\$2,160.00
L. TOTAL COSTS (J PLUS K)							<u>\$16,050.00</u>	<u>\$6,156.00</u>

ARIZONA STATE UNIVERSITY

PROCESS STUDY - NITROGEN FIXATION RATES OF INDIGENOUS DESERT BACTERIA
PROPOSAL 5.5.8

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
JOHNSON, ROY	0	0	20	0	20	10	\$3,000.00	\$3,375.00
SUB-TOTAL							<u>\$3,000.00</u>	<u>\$3,375.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
F. TECHNICAL, SHOP, AND OTHER								
TECHNICIAN 20 HOURS/WEEK 1.75/HOUR							\$1,820.00	\$1,400.00
TOTAL SALARIES AND WAGES							<u>\$4,820.00</u>	<u>\$4,775.00</u>
B. FRINGE BENEFITS 11.20% OF A1, A2A, A2B AND 01.00% OF REMAINDER OF A							\$354.00	\$392.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$5,174.00</u>	<u>\$5,167.00</u>
F. EXPENDABLE EQUIPMENT AND SUPPLIES								
MEDIA, GLASSWARE, CHEMICALS, PUBLICATION COSTS, ETC.							\$1,500.00	\$0.00
SUB-TOTAL							<u>\$1,500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
10 TRIP(S) @ \$50.00/TRIP							\$500.00	\$0.00
TEMPE TO SILVER BELL AND LOCAL								
SUB-TOTAL							<u>\$500.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$7,174.00</u>	<u>\$5,167.00</u>
K. INDIRECT COSTS 55.60% OF A							\$2,679.00	\$2,654.00
L. TOTAL COSTS (J PLUS K)							<u>\$9,853.00</u>	<u>\$7,821.00</u>

NEW MEXICO STATE UNIVERSITY

PROCESS STUDY -- THE EFFECT OF ENVIRONMENTAL VARIABLES ON THE RATE OF ORGANIC MATTER MINERALIZATION IN SOIL
PROPOSAL 5.5.9

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
WAHLQUIST, BRENT	0	0	20	0	20	0	\$2,000.00	\$2,000.00
SUB-TOTAL							<u>\$2,000.00</u>	<u>\$2,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$4,000.00	\$0.00
TOTAL SALARIES AND WAGES.							<u>\$6,000.00</u>	<u>\$2,000.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$462.00	\$254.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$6,462.00</u>	<u>\$2,254.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							<u>\$1,500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
50 TRIP(S) OF 80 MILES @ \$0.10/MILE							\$400.00	\$0.00
JORNADA								
SUB-TOTAL							<u>\$400.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$8,362.00</u>	<u>\$2,254.00</u>
K. INDIRECT COSTS 41.00% OF A							\$2,460.00	\$820.00
L. TOTAL COSTS (J PLUS K).							<u>\$10,822.00</u>	<u>\$3,074.00</u>

UTAH STATE UNIVERSITY

ABIGIIC_PROCESS_STUDY_COORDINATOR

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
HANKS, ROBERT J.		20	0	0	10	0	0	\$3,820.00
SUB-TOTAL								<u>\$3,820.00</u>
								<u>\$1,910.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
E. SECRETARIAL-CLERICAL								
1 SECRETARY (25%)								\$1,000.00
								\$0.00
TOTAL SALARIES AND WAGES								<u>\$4,820.00</u>
								<u>\$1,910.00</u>
B. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A								\$480.00
								\$210.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)								<u>\$5,300.00</u>
								<u>\$2,120.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
OFFICE SUPPLIES								\$250.00
								\$0.00
SUB-TOTAL								<u>\$250.00</u>
								<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)								<u>\$5,550.00</u>
								<u>\$2,120.00</u>
K. INDIRECT COSTS 60.00% OF A								\$2,892.00
								\$1,146.00
L. TOTAL COSTS (J PLUS K)								<u>\$8,442.00</u>
								<u>\$3,266.00</u>

UTAH STATE UNIVERSITY

PROCESS STUDIES -- PREDICTION OF PLANT, SOIL, AND AIR TEMPERATURE ON
 A MICROSCALE IN THE DESERT
 PROPOSAL 5.6.2

	1/10 MAN-MONTHS		N.S.F.		GRANTEE		
	CAL	ACAD	SUM	CAL	ACAD	SUM	
A. SALARIES AND WAGES							
1. SENIOR PERSONNEL							
B. FACULTY ASSOCIATES							
DIRMHIRN, INGE	0	0	0	0	0	15	
SUB-TOTAL						\$0.00	\$1,900.00
SUB-TOTAL						<u>\$0.00</u>	<u>\$1,900.00</u>
2. OTHER PERSONNEL (NON-FACULTY)							
C. GRADUATE STUDENTS							
1 RESEARCH ASSISTANT						\$3,600.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							
ELECTRONICS ENGINEER (PART-TIME)						\$980.00	\$0.00
SUB-TOTAL						<u>\$4,580.00</u>	<u>\$1,900.00</u>
TOTAL SALARIES AND WAGES						<u>\$4,580.00</u>	<u>\$1,900.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A						\$274.00	\$209.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)						<u>\$4,854.00</u>	<u>\$2,109.00</u>
D. PERMANENT EQUIPMENT							
GALVANOMETERS						\$300.00	\$0.00
METRODATA RECORDING SYSTEM (18 POINTS)						\$5,000.00	\$0.00
NET RADIOMETER						\$350.00	\$0.00
PYRANOMETER						\$350.00	\$0.00
THERMISTORS/THERMOCOUPLES						\$200.00	\$0.00
SUB-TOTAL						<u>\$6,200.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							
BRIDGES, ELECTRONICS						\$220.00	\$0.00
OFFICE & FIELD SUPPLIES						\$600.00	\$0.00
SUB-TOTAL						<u>\$820.00</u>	<u>\$0.00</u>
F. TRAVEL							
I. DOMESTIC							
22 TRIP(S) OF 200 MILES @ \$0.10/MILE						\$440.00	\$0.00
CURLEW VALLEY							
3 TRIP(S) @ \$200.00/TRIP						\$600.00	\$0.00
TUCSON, SILVER BELL							
SUB-TOTAL						<u>\$1,040.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)						<u>\$12,914.00</u>	<u>\$2,109.00</u>
K. INDIRECT COSTS 60.00% OF A						\$2,748.00	\$1,140.00
L. TOTAL COSTS (J PLUS K)						<u>\$15,662.00</u>	<u>\$3,249.00</u>

UTAH STATE UNIVERSITY

PROCESS STUDIES - WATER, RADIATION AND HEAT BALANCE OF A SAGEBUSH
 -SHADSCALE DESERT
 PROPOSAL 5-6-72

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
ASHCROFT, GAYLAM L.	0	0	0	0	0	0	\$0.00	\$0.00
CAMPBELL, C.	0	0	0	0	0	0	\$0.00	\$0.00
HANKS, ROBERT J.	0	0	0	0	0	0	\$0.00	\$0.00
WOOD, D. L.	0	0	0	0	0	0	\$0.00	\$0.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
D. PRE-BACCALAUREATE STUDENTS							\$3,000.00	\$0.00
PART-TIME								
TOTAL SALARIES AND WAGES							<u>\$3,000.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A							\$180.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$3,180.00</u>	<u>\$0.00</u>
D. PERMANENT EQUIPMENT								
LYSIMETER AND INSTALLATION							\$3,600.00	\$0.00
NET RADIOMETER - 1							\$300.00	\$0.00
SUB-TOTAL							<u>\$3,900.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
MISCELLANEOUS ITEMS							\$2,500.00	\$0.00
PAPER TAPE							\$200.00	\$0.00
VAPOR SENSORS - 4							\$400.00	\$0.00
SUB-TOTAL							<u>\$3,100.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
110 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$2,200.00	\$0.00
CURLEW VALLEY								
60 TRIP(S) OF 100 MILES @ \$0.10/MILE							\$600.00	\$0.00
CACHE COUNTY								
SUB-TOTAL							<u>\$2,800.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$12,980.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 60.00% OF A							\$1,800.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$14,780.00</u>	<u>\$0.00</u>

UNIVERSITY OF ARIZONA

PROCESS STUDY - PLANT GROWTH AND WATER TRANSFER INTERACTIVE PROCESSES
UNDER DESERT CONDITIONS
PROPOSAL 5.6.4

	1/10 MAN-MONTHS						N.S.F.	GRANTEE	
	N.S.F.		GRANTEE						
	CAL	ACAD	SUM	CAL	ACAD	SUM			

A. SALARIES AND WAGES									
1. SENIOR PERSONNEL									
B. FACULTY ASSOCIATES									
QASHU, H. K.		0	15	0	0	0	10	\$2,000.00	\$1,000.00
SUB-TOTAL								<u>\$2,000.00</u>	<u>\$1,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)									
C. GRADUATE STUDENTS									
2 RESEARCH ASSISTANTS								\$10,000.00	\$0.00
TOTAL SALARIES AND WAGES								<u>\$12,000.00</u>	<u>\$1,000.00</u>
B. FRINGE BENEFITS 07.00% OF A1 ,A2A,A2B AND 01.00% OF REMAINDER OF A								\$240.00	\$70.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)								<u>\$12,240.00</u>	<u>\$1,070.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES									
ELECTRONIC SUPPLIES AND OPERATIONS								\$1,000.00	\$0.00
SUB-TOTAL								<u>\$1,000.00</u>	<u>\$0.00</u>
F. TRAVEL									
1. DOMESTIC									
100 TRIP(S) OF 60 MILES @ \$0.10/MILE								\$600.00	\$0.00
SILVER BELL									
SUB-TOTAL								<u>\$600.00</u>	<u>\$0.00</u>
I. OTHER COSTS									
3. NON-CATEGORIZED ITEMS									
TRUCK RENTAL TO MOVE INSTRUMENT VAN								\$80.00	\$0.00
SUB-TOTAL								<u>\$80.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)								<u>\$13,920.00</u>	<u>\$1,070.00</u>
K. INDIRECT COSTS 44.95% OF A								\$5,394.00	\$449.00
L. TOTAL COSTS (J PLUS K)								<u>\$19,314.00</u>	<u>\$1,519.00</u>

UNIVERSITY OF ARIZONA

PROCESS STUDY - GROUND LEVEL CLIMATOLOGY AND ENERGY BUDGETS OF ORGANISMS
IN THE SONORAN DESERT
PROPOSAL 5.6.5

	1/10 MAN-MONTHS								N.S.F.	GRANTEE
	N.S.F.		GRANTEE		N.S.F.		GRANTEE			
	CAL	ACAD	SUM	CAL	ACAD	SUM				

A. SALARIES AND WAGES										
1. SENIOR PERSONNEL										
B. FACULTY ASSOCIATES										
HINDS, DAVID	0	0	0	0	0	0		\$0.00		\$0.00
LOWE, CHARLES H.	0	0	0	0	0	10		\$0.00		\$1,000.00
SUB-TOTAL								<u>\$0.00</u>		<u>\$1,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)										
C. GRADUATE STUDENTS										
1 RESEARCH ASSISTANT								\$4,500.00		\$0.00
TOTAL SALARIES AND WAGES								<u>\$4,500.00</u>		<u>\$1,000.00</u>
B. FRINGE BENEFITS 07.00% OF A1 ,A2A,A2B AND 01.00% OF REMAINDER OF A								\$45.00		\$70.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)								<u>\$4,545.00</u>		<u>\$1,070.00</u>
D. PERMANENT EQUIPMENT										
ALL-WAVE HEMISPHERICAL RADIOMETER								\$650.00		\$0.00
SUB-TOTAL								<u>\$650.00</u>		<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES										
SUB-TOTAL								<u>\$300.00</u>		<u>\$0.00</u>
F. TRAVEL										
1. DOMESTIC										
2 TRIP(S) @ \$120.00/TRIP								\$240.00		\$0.00
BAKERSFIELD TO SILVER BELL SITE										
60 TRIP(S) OF 70 MILES @ \$0.15/MILE								\$630.00		\$0.00
TUCSON SILVER BELL										
SUB-TOTAL								<u>\$870.00</u>		<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)								<u>\$6,365.00</u>		<u>\$1,070.00</u>
K. INDIRECT COSTS 44.95% ON CAMPUS (30%) 23.73 OFF (70%)								\$1,543.00		\$449.00
L. TOTAL COSTS (J PLUS K)								<u>\$7,908.00</u>		<u>\$1,519.00</u>

UNIVERSITY OF ARIZONA

PROCESS STUDY - SOIL FACTORS INFLUENCING WATER UPTAKE BY PLANTS UNDER
DESERT CONDITIONS
PROPOSAL 5.6.5

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
QASHU, H. K.	0	0	0	0	0	5	\$0.00	\$800.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$800.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 GRADUATE ASSOC. IN RESEARCH							\$6,000.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
2 PART-TIME							\$4,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$10,000.00</u>	<u>\$800.00</u>
B. FRINGE BENEFITS 07.00% OF A1, A2A, A2B AND 01.00% OF REMAINDER OF A							\$100.00	\$56.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$10,100.00</u>	<u>\$856.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
ELECTRONIC PARTS							\$600.00	\$0.00
SUB-TOTAL							<u>\$600.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
100 TRIP(S) OF 60 MILES @ \$0.10/MILE							\$600.00	\$0.00
SILVER BELL								
SUB-TOTAL							<u>\$600.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$11,300.00</u>	<u>\$856.00</u>
K. INDIRECT COSTS 44.95% OF A							\$4,495.00	\$359.00
L. TOTAL COSTS (J PLUS K)							<u>\$15,795.00</u>	<u>\$1,215.00</u>

WASHINGTON STATE UNIVERSITY

PROCESS STUDIES - EFFECT OF SOIL WATER POTENTIAL ON SOIL MOISTURE
 ABSORPTION, TRANSPIRATION RATE, PLANT WATER POTENTIAL, AND GROWTH FOR
 ARTEMISIA TRIDENTATA
 PROPOSAL 5.6.7

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
CAMPBELL, C.	0	0	0	0	10	0	\$0.00	\$1,167.00
HARRIS, G. A.	0	0	0	0	5	0	\$0.00	\$833.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$2,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$4,068.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$4,068.00</u>	<u>\$2,000.00</u>
B. FRINGE BENEFITS 06.00% OF A							\$244.00	\$120.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$4,312.00</u>	<u>\$2,120.00</u>
D. PERMANENT EQUIPMENT								
PSYCHROMETER READOUT AMPLIFIER							\$750.00	\$0.00
SAMPLE CHAMBER PSYCHROMETER							\$250.00	\$0.00
SUB-TOTAL							<u>\$1,000.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
NEUTRON METER TUBES AND COMPONENTS FOR TRANSPIROMETER							\$500.00	\$0.00
SUB-TOTAL							<u>\$500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
50 TRIP(S) OF 170 MILES @ \$0.07/MILE EASTERN WASHINGTON STATE AND LOCAL							\$595.00	\$0.00
SUB-TOTAL							<u>\$595.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$6,407.00</u>	<u>\$2,120.00</u>
K. INDIRECT COSTS 43.54% OF A							\$1,771.00	\$870.00
L. TOTAL COSTS (J PLUS K)							<u>\$8,178.00</u>	<u>\$2,990.00</u>

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PROCESS STUDIES - EVALUATION OF CRITICAL SOIL PROPERTIES NEEDED TO
PREDICT SOIL WATER FLOW UNDER DESERT CONDITIONS
PROPOSAL 5.6.8

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
HATCH FEDERAL EMPLOYEE	0	0	0	0	0	0	\$0.00	\$0.00
STOLZY, L. H.	0	0	0	0	0	0	\$0.00	\$928.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$928.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$4,733.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$4,733.00</u>	<u>\$928.00</u>
B. FRINGE BENEFITS 13.00% OF A1 ,A2B AND 00.00% OF REMAINDER OF A							\$0.00	\$120.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$4,733.00</u>	<u>\$1,048.00</u>
D. PERMANENT EQUIPMENT								
THERMOMETER-SCANNING, PSYCHROMETER, RECORDER, COLD PLATE							\$2,082.00	\$0.00
SUB-TOTAL							<u>\$2,082.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							<u>\$3,500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
12 TRIP(S) @ \$200.00/TRIP							\$2,400.00	\$0.00
JORNADA, TUCSON							\$672.00	\$0.00
12 TRIP(S) @ \$56.00/TRIP								
ROCK VALLEY								
SUB-TOTAL							<u>\$3,072.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$13,387.00</u>	<u>\$1,048.00</u>
K. INDIRECT COSTS 47.00% OF A							\$2,224.00	\$436.00
L. TOTAL COSTS (J PLUS K)							<u>\$15,611.00</u>	<u>\$1,484.00</u>

UTAH STATE UNIVERSITY

PROCESS STUDIES -- SOIL AS A FACTOR IN MODELLING THE PHOSPHORUS CYCLE IN
THE DESERT ECOSYSTEM
PROPOSAL 5.6.9

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
JAMES, D. W.	0	0	0	0	10	0	\$0.00	\$2,000.00
JURINAK, JEROME J.	0	0	0	0	10	0	\$0.00	\$2,000.00
SOUTHARD, A. R.	0	0	0	0	10	0	\$0.00	\$1,500.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$5,500.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
B. NON-FACULTY PROFESSIONALS								
TECHNICIAN	120	0	0	0	0	0	\$8,200.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
2 PART-TIME							\$1,300.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$9,500.00</u>	<u>\$5,500.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$980.00	\$605.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$10,480.00</u>	<u>\$6,105.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$1,500.00	\$0.00
SUB-TOTAL							<u>\$1,500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
20 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$400.00	\$0.00
CURLEW VALLEY								
SUB-TOTAL							<u>\$400.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$12,380.00</u>	<u>\$6,105.00</u>
K. INDIRECT COSTS 60.00% OF A							\$5,700.00	\$3,300.00
L. TOTAL COSTS (J PLUS K)							<u>\$18,080.00</u>	<u>\$9,405.00</u>

UNIVERSITY OF ARIZONA

PREDICTING NITROGEN TRANSFORMATIONS AND OSMOTIC POTENTIALS IN WARM
DESERT SOILS
PROPOSAL 5.6.10

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
DUTT, GORDON R.	0	0	0	0	0	0	\$0.00	\$0.00
FULLER, WALLACE H.	0	0	0	0	0	0	\$0.00	\$0.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
2 RESEARCH ASSISTANTS							\$7,200.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS PART-TIME							\$550.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$7,750.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 07.00% OF A1 ,A2A,A2B AND 01.00% OF REMAINDER OF A							\$77.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$7,827.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$750.00	\$0.00
SUB-TOTAL							<u>\$750.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
25 TRIP(S) OF 80 MILES @ \$0.10/MILE TUCSON AREA							\$200.00	\$0.00
SUB-TOTAL							<u>\$200.00</u>	<u>\$0.00</u>
H. COMPUTER COSTS							\$1,500.00	\$0.00
SUB-TOTAL							<u>\$1,500.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$10,277.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 44.95% OF A							\$3,483.00	\$0.00
L. TOTAL COSTS (J PLUS K).							<u>\$13,760.00</u>	<u>\$0.00</u>

UNIVERSITY OF NEVADA, D.R.I.

PROCESS STUDIES - DISTILLATION CONDENSATION OF WATER AND NUTRIENT
MOVEMENT IN A DESERT ECOSYSTEM
PROPOSAL 5.6.11

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
BLINCQE, C.	0	0	5	0	0	0	\$100.00	\$0.00
PETERSON, F.	0	0	5	0	0	0	\$100.00	\$0.00
STARK, N. PROJECT LEADER	60	0	0	10	0	0	\$6,200.00	\$800.00
SUB-TOTAL							<u>\$6,400.00</u>	<u>\$800.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$2,500.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$8,900.00</u>	<u>\$800.00</u>
B. FRINGE BENEFITS 07.00% OF A							\$623.00	\$56.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$9,523.00</u>	<u>\$856.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
CHEMICALS, ACIDS, SMALL GLASSWARE							\$1,000.00	\$0.00
RADIOTRACERS							\$300.00	\$0.00
SUB-TOTAL							<u>\$1,300.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
10 TRIP(S) @ \$100.00/TRIP							\$1,000.00	\$0.00
DEATH VALLEY, ROCK VALLEY								
SUB-TOTAL							<u>\$1,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$11,823.00</u>	<u>\$856.00</u>
K. INDIRECT COSTS 45.44% OF C							\$4,327.00	\$388.00
L. TOTAL COSTS (J PLUS K)							<u><u>\$16,150.00</u></u>	<u><u>\$1,244.00</u></u>

IDAHO STATE UNIVERSITY

AQUATIC PROCESS STUDY COORDINATOR

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
MINSHALL, G. WAYNE (25%)	0	15	5	0	10	0	\$2,674.00	\$1,337.00
SUB-TOTAL							<u>\$2,674.00</u>	<u>\$1,337.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
E. SECRETARIAL-CLERICAL								
1 SECRETARY PART-TIME							\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$3,674.00</u>	<u>\$1,337.00</u>
B. FRINGE BENEFITS 14.00% OF A							\$514.00	\$187.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$4,188.00</u>	<u>\$1,524.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
OFFICE SUPPLIES							\$250.00	\$0.00
SUB-TOTAL							<u>\$250.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$4,438.00</u>	<u>\$1,524.00</u>
K. INDIRECT COSTS 43.90% OF A							\$1,612.00	\$586.00
L. TOTAL COSTS (J PLUS K)							<u><u>\$6,050.00</u></u>	<u><u>\$2,110.00</u></u>

UTAH STATE UNIVERSITY

PROCESS STUDIES - TIMING, YIELD, AND SELECTED WATER QUALITY
 CHARACTERISTICS OF OVERLAND FLOW ABOVE DEEP-CREEK VALIDATION STATION
 NO. 1 AS A FUNCTION OF LAND USE IN UPPER REACHES OF THE WATERSHED.
 PROPOSAL 5.7.2

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
COLTHARP, GEORGE	10	0	0	0	5	0	\$1,400.00	\$675.00
GIFFORD, GERALD F. PROJECT LEADER	10	0	0	0	5	0	\$1,400.00	\$675.00
HART, GEORGE	10	0	0	0	5	0	\$1,400.00	\$675.00
SUB-TOTAL							<u>\$4,200.00</u>	<u>\$2,025.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
D. PRE-BACCALAUREATE STUDENTS								
PART-TIME							\$1,925.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$6,125.00</u>	<u>\$2,025.00</u>
B. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A							\$577.00	\$222.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$6,702.00</u>	<u>\$2,247.00</u>
D. PERMANENT EQUIPMENT								
NINE 2 OR 3-FOOT TYPE H FLUMES @ 200.00							\$1,800.00	\$0.00
4 RECORDING RAINGAGES @ 475							\$1,900.00	\$0.00
9 STEVENS TYPE F WATER LEVEL RECORDERS							\$2,925.00	\$0.00
SUB-TOTAL							<u>\$6,625.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
NONRECORDING RAINGAGES							\$360.00	\$0.00
OFFICE AND FIELD SUPPLIES							\$350.00	\$0.00
U-59 SEDIMENT SAMPLERS							\$750.00	\$0.00
SUB-TOTAL							<u>\$1,460.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
70 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$1,400.00	\$0.00
CURLEW VALLEY								
SUB-TOTAL							<u>\$1,400.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$16,187.00</u>	<u>\$2,247.00</u>
K. INDIRECT COSTS 60.00% OF A							\$3,675.00	\$1,215.00
L. TOTAL COSTS (J PLUS K)							<u>\$19,862.00</u>	<u>\$3,462.00</u>

IDAHO STATE UNIVERSITY

PROCESS STUDIES -- INGESTION, ASSIMILATION AND GROWTH RATES OF IMPORTANT
BENTHIC INVERTEBRATES FROM DEEP CREEK, CURLEW VALLEY
PROPOSAL 5.7.3

	1/10 MAN-MONTHS				N.S.F.		GRANTEE			
	N.S.F.		GRANTEE		N.S.F.	GRANTEE				
	CAL	ACAD	SUM	CAL			ACAD	SUM		

A. SALARIES AND WAGES										
1. SENIOR PERSONNEL										
B. FACULTY ASSOCIATES										
MINSHALL, G. WAYNE PROJECT LEADER	0	5	0	0	0	10	\$700.00	\$630.00		
SUB-TOTAL							<u>\$700.00</u>	<u>\$630.00</u>		
2. OTHER PERSONNEL (NON-FACULTY)										
C. GRADUATE STUDENTS										
1 RESEARCH ASSISTANT							\$4,200.00	\$0.00		
TOTAL SALARIES AND WAGES							<u>\$4,900.00</u>	<u>\$630.00</u>		
B. FRINGE BENEFITS 14.00% OF A							\$686.00	\$88.00		
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$5,586.00</u>	<u>\$718.00</u>		
E. EXPENDABLE EQUIPMENT AND SUPPLIES										
SUB-TOTAL							<u>\$800.00</u>	<u>\$0.00</u>		
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$6,386.00</u>	<u>\$718.00</u>		
K. INDIRECT COSTS 43.90% OF A							\$2,151.00	\$276.00		
L. TOTAL COSTS (J PLUS K)							<u>\$8,537.00</u>	<u>\$994.00</u>		

UTAH STATE UNIVERSITY

PROCESS STUDY - NITROGEN METABOLISM IN DESERT SPRINGS
 PROPOSAL 5.7.4

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
LYNN, RAYMOND I.	0	0	0	10	0	0	\$0.00	\$0.00
PORCELLA, D. B.	0	0	0	10	0	0	\$0.00	\$0.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$3,300.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$3,300.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$198.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$3,498.00</u>	<u>\$0.00</u>
D. PERMANENT EQUIPMENT								
24-HOUR, PORTABLE, MULTIPOINT WATER SAMPLER							\$600.00	\$0.00
SUB-TOTAL							<u>\$600.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
GLASSWARE AND CHEMICALS							\$1,200.00	\$0.00
SUB-TOTAL							<u>\$1,200.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
50 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$1,000.00	\$0.00
CURLEW VALLEY								
SUB-TOTAL							<u>\$1,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$6,298.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 60.00% OF A							\$1,980.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$8,278.00</u>	<u>\$0.00</u>

UTAH STATE UNIVERSITY

PROCESS STUDY - NUTRIENT UPTAKE BY AQUATIC BACTERIA
PROPOSAL 5.7.5

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
POST, F. J. PROJECT LEADER	0	0	0	0	0	0	\$0.00	\$0.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$3,200.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
HOURLY HELP							\$450.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$3,650.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A							\$219.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$3,869.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
CHEMICALS							\$500.00	\$0.00
FILTERS AND UNITS							\$545.00	\$0.00
GLASS AND WINDOWS FOR COUNTER							\$107.00	\$0.00
GLASS-SLIDES, COVERSLEIPS, PIPETS, ETC							\$205.00	\$0.00
MISC.							\$500.00	\$0.00
PETRI PLATES AND MEDIA							\$290.00	\$0.00
PLANCHETS AND SYRINGES							\$260.00	\$0.00
RADIOACTIVES							\$1,200.00	\$0.00
VACUUM HAND PUMP FOR FIELD							\$30.00	\$0.00
SUB-TOTAL							<u>\$3,637.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$7,506.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 60.00% OF A							\$2,190.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$9,696.00</u>	<u>\$0.00</u>

UTAH STATE UNIVERSITY

PROCESS STUDIES -- A STUDY OF ASSIMILATION, GROWTH RATE, AND REPRODUCTIVE
 RATE OF *HYALELLA AZTECA* AS RELATED TO ENVIRONMENTAL VARIABLES
 PROPOSAL 5,7,6

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
HOLMAN, J. ANNE	30	0	0	0	0	0	\$2,200.00	\$0.00
SUB-TOTAL							<u>\$2,200.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
1 TO BE APPOINTED	120	0	0	0	0	0	\$3,900.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$6,100.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$476.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$6,576.00</u>	<u>\$0.00</u>
D. PERMANENT EQUIPMENT								
COOLER-HEATER WATERBATHS							\$1,850.00	\$0.00
MILLIPORE SET UP FILTERS							\$100.00	\$0.00
SUB-TOTAL							<u>\$1,950.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
CONTAINERS AND FRAMES							\$50.00	\$0.00
FIELD SUPPLIES AND OFFICE							\$1,000.00	\$0.00
SUB-TOTAL							<u>\$1,050.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
30 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$600.00	\$0.00
CURLEW VALLEY								
SUB-TOTAL							<u>\$600.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$10,176.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 60.00% OF A							\$3,660.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$13,836.00</u>	<u>\$0.00</u>

NEW MEXICO STATE UNIVERSITY

PROCESS STUDY - ANALYSIS OF THE ROLE AND INTERACTIONS OF MICROORGANISMS
ALGAE AND ANURAN TADPOLES IN AN EPHERMERAL LAKE
PROPOSAL 5.7.7

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
CUNNINGHAM, G. L.	0	0	0	0	10	0	\$0.00	\$1,300.00
O'BRIEN, ROBERT T.	0	0	10	0	10	0	\$1,666.00	\$1,666.00
WHITFORD, W. G.	0	0	0	0	10	5	\$0.00	\$1,480.00
SUB-TOTAL							<u>\$1,666.00</u>	<u>\$4,446.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
3 GRADUATE ASST.							\$8,800.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
UNDERGRADUATE ASST.							\$2,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$12,466.00</u>	<u>\$4,446.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$773.00	\$564.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$13,239.00</u>	<u>\$5,010.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$2,500.00	\$0.00
SUB-TOTAL							<u>\$2,500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
100 TRIP(S) OF 100 MILES @ \$0.10/MILE							\$1,000.00	\$0.00
JORNADA, DONA ANA CO.								
SUB-TOTAL							<u>\$1,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$16,739.00</u>	<u>\$5,010.00</u>
K. INDIRECT COSTS 41.00% OF A							\$5,111.00	\$1,822.00
L. TOTAL COSTS (J PLUS K)							<u>\$21,850.00</u>	<u>\$6,832.00</u>

TEXAS TECH UNIVERSITY

POPULATION ENERGETICS OF PREDATORY AQUATIC BEETLES IN THE DESERT
 AQUATIC ECOSYSTEM
 PROPOSAL 5.7.8

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
HUDDLESTON, ELLIS W.	0	0	0	0	0	0	\$0.00	\$0.00
MEENAGHAN, GEORGE F.	0	0	0	0	0	0	\$0.00	\$0.00
O'BRIEN, CHARLES W.	0	0	0	0	0	0	\$0.00	\$0.00
WARD, CHARLES R.	0	20	20	0	10	0	\$2,684.00	\$1,389.00
SUB-TOTAL							<u>\$2,684.00</u>	<u>\$1,389.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$3,600.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
STUDENT ASSISTANTS (PART-TIME)							\$500.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$6,784.00</u>	<u>\$1,389.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$450.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$7,234.00</u>	<u>\$1,389.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
OFFICE AND FIELD SUPPLIES							\$900.00	\$0.00
SUB-TOTAL							<u>\$900.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
6 TRIP(S) OF 500 MILES @ \$0.10/MILE							\$300.00	\$0.00
JORNADA								
SUB-TOTAL							<u>\$300.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$8,434.00</u>	<u>\$1,389.00</u>
K. INDIRECT COSTS 37.60% ON CAMPUS, 18.28% OFF CAMPUS							\$1,927.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$10,361.00</u>	<u>\$1,389.00</u>

ARIZONA STATE UNIVERSITY

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 4 FACULTY ASSOCIATES	0	10	20	0	20	20	\$4,500.00	\$5,625.00
SUB-TOTAL							<u>\$4,500.00</u>	<u>\$5,625.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$9,005.00	\$0.00
E. SECRETARIAL-CLERICAL							\$1,000.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$1,820.00	\$1,400.00
TOTAL SALARIES AND WAGES							<u>\$16,325.00</u>	<u>\$7,025.00</u>
B. FRINGE BENEFITS 11.20% OF A1, A2A, A2B AND 01.00% OF REMAINDER OF A							\$620.00	\$644.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$16,945.00</u>	<u>\$7,669.00</u>
D. PERMANENT EQUIPMENT							\$1,350.00	\$0.00
F. EXPENDABLE EQUIPMENT AND SUPPLIES							\$2,600.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$1,050.00	\$0.00
I. OTHER COSTS								
1. CONSULTANTS							\$4,000.00	\$0.00
3. NON-CATEGORIZED ITEMS							\$800.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$27,435.00</u>	<u>\$7,669.00</u>
K. INDIRECT COSTS 55.60% OF A							\$9,074.00	\$3,905.00
L. TOTAL COSTS (J PLUS K)							<u><u>\$36,509.00</u></u>	<u><u>\$11,574.00</u></u>

NORTHERN ARIZONA UNIVERSITY

BUDGET SUMMARY

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
A. 3 (CO) PRINCIPAL INVESTIGATOR(S)	0	0	0	30	0	0	\$0.00	\$4,290.00
B. 1 FACULTY ASSOCIATES	0	0	10	0	5	0	\$1,650.00	\$825.00
SUB-TOTAL							<u>\$1,650.00</u>	<u>\$5,115.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$11,210.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$1,500.00	\$0.00
TOTAL SALARIES AND WAGES.							<u>\$14,360.00</u>	<u>\$5,115.00</u>
B. FRINGE BENEFITS 12.00% OF A							\$1,723.00	\$613.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$16,083.00</u>	<u>\$5,728.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$200.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$1,152.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$17,760.00</u>	<u>\$6,028.00</u>
K. INDIRECT COSTS 34.27% OF C							\$5,510.00	\$1,962.00
L. TOTAL COSTS (J PLUS K).							<u>\$23,270.00</u>	<u>\$7,990.00</u>

UNIVERSITY OF ARIZONA

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 26 FACULTY ASSOCIATES	27	85	20	21	119	50	\$16,406.00	\$25,133.00
SUB-TOTAL							<u>\$16,406.00</u>	<u>\$25,133.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. 1 RESEARCH ASSOCIATES-POSTDOCTORAL	0	0	15	0	0	0	\$1,400.00	\$0.00
C. GRADUATE STUDENTS							\$77,980.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$18,185.00	\$0.00
E. SECRETARIAL-CLERICAL							\$3,500.00	\$500.00
F. TECHNICAL, SHOP, AND OTHER							\$17,800.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$135,271.00</u>	<u>\$25,633.00</u>
R. FRINGE BENEFITS 07.00% OF A1, A2A, A2B AND 01.00% OF REMAINDER OF A							\$2,418.00	\$1,762.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+R)							<u>\$137,689.00</u>	<u>\$27,395.00</u>
D. PERMANENT EQUIPMENT							\$3,050.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$12,225.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$9,977.00	\$0.00
H. COMPUTER COSTS							\$1,500.00	\$0.00
I. OTHER COSTS								
2. CONTRACTS							\$3,000.00	\$0.00
3. NON-CATEGORIZED ITEMS							\$14,888.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$182,329.00</u>	<u>\$27,395.00</u>
K. INDIRECT COSTS 44.95% OF A							\$60,319.00	\$11,516.00
L. TOTAL COSTS (J PLUS K)							<u>\$242,648.00</u>	<u>\$38,911.00</u>

POMONA COLLEGE

BUDGET SUMMARY

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 1 FACULTY ASSOCIATES	0	30	0	0	0	30	\$2,666.00	\$3,000.00
SUB-TOTAL							<u>\$2,666.00</u>	<u>\$3,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. 1 RESEARCH ASSOCIATES-POSTDOCTORAL	80	0	0	0	0	0	\$4,300.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$6,966.00</u>	<u>\$3,000.00</u>
B. FRINGE BENEFITS 05.20% OF A							\$362.00	\$156.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$7,328.00</u>	<u>\$3,156.00</u>
D. PERMANENT EQUIPMENT							\$3,725.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$200.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$600.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$11,853.00</u>	<u>\$3,156.00</u>
K. INDIRECT COSTS 67.11% OF A							\$2,052.00	\$2,013.00
L. TOTAL COSTS (J PLUS K)							<u>\$13,905.00</u>	<u>\$5,169.00</u>

CALIFORNIA STATE COLLEGE AT LONG BEACH

BUDGET SUMMARY

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 1 FACULTY ASSOCIATES	0	20	0	0	0	20	\$2,300.00	\$2,000.00
SUB-TOTAL							<u>\$2,300.00</u>	<u>\$2,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
B. 1 NON-FACULTY PROFESSIONALS	0	0	0	0	0	0	\$8,000.00	\$1,500.00
TOTAL SALARIES AND WAGES							<u>\$10,300.00</u>	<u>\$3,500.00</u>
B. FRINGE BENEFITS 10.30% OF A1, A2B AND 00.00% OF REMAINDER OF A							\$1,060.00	\$360.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$11,360.00</u>	<u>\$3,860.00</u>
D. PERMANENT EQUIPMENT							\$300.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$500.00	\$300.00
F. TRAVEL								
1. DOMESTIC							\$796.00	\$180.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$13,181.00</u>	<u>\$4,340.00</u>
K. INDIRECT COSTS 24.53% OF J-D							\$3,159.00	\$1,064.00
L. TOTAL COSTS (J PLUS K)							<u>\$16,340.00</u>	<u>\$5,404.00</u>

UNIVERSITY OF CALIFORNIA, LOS ANGELES

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 7 FACULTY ASSOCIATES	10	90	0	0	0	20	\$17,549.00	\$2,500.00
SUB-TOTAL							<u>\$17,549.00</u>	<u>\$2,500.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. 1 RESEARCH ASSOCIATES-POSTDOCTORAL	10	0	0	0	0	0	\$1,048.00	\$0.00
B. 4 NON-FACULTY PROFESSIONALS	180	60	0	0	0	0	\$14,544.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$6,800.00	\$500.00
TOTAL SALARIES AND WAGES							<u>\$39,941.00</u>	<u>\$3,000.00</u>
B. FRINGE BENEFITS 13.00% OF A1, A2B AND 10.00% OF REMAINDER OF A							\$4,956.00	\$375.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$44,897.00</u>	<u>\$3,375.00</u>
D. PERMANENT EQUIPMENT							\$15,000.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$2,600.00	\$300.00
F. TRAVEL								
1. DOMESTIC							\$6,411.00	\$0.00
G. OTHER COSTS								
1. CONSULTANTS							\$0.00	\$1,200.00
2. CONTRACTS							\$5,000.00	\$0.00
3. NON-CATEGORIZED ITEMS							\$250.00	\$800.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$75,658.00</u>	<u>\$5,675.00</u>
K. INDIRECT COSTS 47.00% OF A							\$14,788.00	\$1,410.00
L. TOTAL COSTS (J PLUS K)							<u>\$90,446.00</u>	<u>\$7,085.00</u>

UNIVERSITY OF CALIFORNIA, RIVERSIDE

BUDGET SUMMARY

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 10 FACULTY ASSOCIATES	0	0	60	0	35	10	\$8,146.00	\$5,597.00
SUB-TOTAL							<u>\$8,146.00</u>	<u>\$5,597.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$30,000.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$3,665.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$2,434.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$44,245.00</u>	<u>\$5,597.00</u>
B. FRINGE BENEFITS 13.00% OF A1, A2B AND 00.00% OF REMAINDER OF A							\$1,058.00	\$726.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$45,303.00</u>	<u>\$6,323.00</u>
D. PERMANENT EQUIPMENT							\$3,082.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$10,259.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$11,460.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$70,104.00</u>	<u>\$6,323.00</u>
K. INDIRECT COSTS 47.00% OF A							\$20,356.00	\$2,629.00
L. TOTAL COSTS (J PLUS K)							<u>\$90,460.00</u>	<u>\$8,952.00</u>

UNIVERSITY OF SOUTHERN CALIFORNIA

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 3 FACULTY ASSOCIATES	0	10	24	0	37	0	\$6,428.00	\$7,124.00
SUB-TOTAL							<u>\$6,428.00</u>	<u>\$7,124.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. 1 RESEARCH ASSOCIATES-POSTDOCTORAL	60	0	0	0	0	0	\$6,383.00	\$0.00
C. GRADUATE STUDENTS							\$923.00	\$0.00
E. SECRETARIAL-CLERICAL							\$1,000.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$2,263.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$16,997.00</u>	<u>\$7,124.00</u>
B. FRINGE BENEFITS 07.00% OF A							\$1,188.00	\$498.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$18,185.00</u>	<u>\$7,622.00</u>
D. PERMANENT EQUIPMENT							\$2,050.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$900.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$1,280.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$23,015.00</u>	<u>\$7,622.00</u>
K. INDIRECT COSTS 44.00% OF A							\$6,082.00	\$1,374.00
L. TOTAL COSTS (J PLUS K)							<u>\$29,097.00</u>	<u>\$8,996.00</u>

SAN DIEGO STATE COLLEGE
BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 2 FACULTY ASSOCIATES	0	0	25	0	0	0	\$3,390.00	\$0.00
SUB-TOTAL							<u>\$3,390.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$3,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$6,390.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 05.40% OF A1, A2A, A2B AND 04.30% OF REMAINDER OF A							\$312.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$6,702.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$730.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$505.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$7,937.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 62.00% OF A							\$3,961.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$11,898.00</u>	<u>\$0.00</u>

IDAHO STATE UNIVERSITY

BUDGET SUMMARY

	1/10 MAN-MONTHS			GRANTEE			N.S.F.	GRANTEE
	N.S.F.		SUM	CAL ACAD		SUM		
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 10 FACULTY ASSOCIATES	0	45	27	0	28	71	\$11,810.00	\$11,046.00
SUB-TOTAL							<u>\$11,810.00</u>	<u>\$11,046.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$45,400.00	\$0.00
E. SECRETARIAL-CLERICAL							\$1,500.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$2,300.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$61,010.00</u>	<u>\$11,046.00</u>
B. FRINGE BENEFITS 14.00% OF A							\$8,541.00	\$1,545.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$69,551.00</u>	<u>\$12,591.00</u>
D. PERMANENT EQUIPMENT							\$3,600.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$4,800.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$3,614.00	\$0.00
I. OTHER COSTS								
2. CONTRACTS							\$2,000.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$83,565.00</u>	<u>\$12,591.00</u>
K. INDIRECT COSTS 43.90% OF A							\$26,781.00	\$4,845.00
L. TOTAL COSTS (J PLUS K)							<u><u>\$110,346.00</u></u>	<u><u>\$17,437.00</u></u>

RICKS COLLEGE

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 1 FACULTY ASSOCIATES	0	20	0	0	0	0	\$3,300.00	\$0.00
SUB-TOTAL							<u>\$3,300.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$4,800.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$8,100.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 05.20% OF A							\$421.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$8,521.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$340.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$778.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$9,639.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 04.00% OF J-D							\$110.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$9,749.00</u>	<u>\$0.00</u>

UNIVERSITY OF IDAHO

BUDGET SUMMARY

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 3 FACULTY ASSOCIATES	0	0	0	65	0	0	\$0.00	\$8,200.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$8,200.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$6,780.00	\$0.00
E. SECRETARIAL-CLERICAL							\$0.00	\$800.00
F. TECHNICAL, SHOP, AND OTHER							\$3,750.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$10,530.00</u>	<u>\$9,000.00</u>
B. FRINGE BENEFITS 05.20% OF A							\$631.00	\$540.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$11,161.00</u>	<u>\$9,540.00</u>
D. PERMANENT EQUIPMENT							\$1,895.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$1,750.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$1,000.00	\$400.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$16,556.00</u>	<u>\$9,940.00</u>
K. INDIRECT COSTS 04.00% OF J-D							\$3,296.00	\$2,816.00
L. TOTAL COSTS (J PLUS K)							<u><u>\$19,852.00</u></u>	<u><u>\$12,756.00</u></u>

UNIVERSITY OF NEVADA, D.F.I.

BUDGET SUMMARY

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 5 FACULTY ASSOCIATES	100	0	10	10	0	0	\$11,000.00	\$800.00
SUB-TOTAL							<u>\$11,000.00</u>	<u>\$800.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$5,700.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$500.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$17,200.00</u>	<u>\$800.00</u>
B. FRINGE BENEFITS 07.00% OF A							\$1,204.00	\$56.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$18,404.00</u>	<u>\$856.00</u>
D. PERMANENT EQUIPMENT							\$1,340.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$2,350.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$1,200.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$23,294.00</u>	<u>\$856.00</u>
K. INDIRECT COSTS 45.44% OF C							\$8,362.00	\$388.00
L. TOTAL COSTS (J PLUS K)							<u>\$31,656.00</u>	<u>\$1,244.00</u>

UNIVERSITY OF NEVADA AG ESP STA

BUDGET SUMMARY

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 1 FACULTY ASSOCIATES	0	0	0	0	0	10	\$0.00	\$2,000.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$2,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. 1 RESEARCH ASSOCIATES-POSTDOCTORAL	90	0	0	0	0	0	\$9,240.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$10,240.00</u>	<u>\$2,000.00</u>
B. FRINGE BENEFITS 05.20% OF A							\$532.00	\$104.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$10,772.00</u>	<u>\$2,104.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$3,000.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$2,250.00	\$0.00
I. OTHER COSTS								
3. NON-CATEGORIZED ITEMS							\$3,100.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$19,122.00</u>	<u>\$2,104.00</u>
K. INDIRECT COSTS 04.00% OF J-D							\$417.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$19,539.00</u>	<u>\$2,104.00</u>

UNIVERSITY OF NEVADA AT LAS VEGAS

BUDGET SUMMARY

	1/10 MAN-MONTHS			GRANTEE			N.S.F.	GRANTEE
	N.S.F. CAL ACAD	SUM	CAL ACAD	SUM	N.S.F.	GRANTEE		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 4 FACULTY ASSOCIATES	0	35	0	0	30	25	\$3,850.00	\$5,850.00
SUB-TOTAL							<u>\$3,850.00</u>	<u>\$5,850.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$12,000.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$825.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$16,675.00</u>	<u>\$5,850.00</u>
B. FRINGE BENEFITS 07.00% OF A							\$1,167.00	\$409.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$17,842.00</u>	<u>\$6,259.00</u>
D. PERMANENT EQUIPMENT							\$980.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$1,000.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$1,235.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$22,307.00</u>	<u>\$6,259.00</u>
K. INDIRECT COSTS 45.44% OF C							\$8,107.00	\$2,843.00
L. TOTAL COSTS (J PLUS K)							<u>\$30,414.00</u>	<u>\$9,102.00</u>

NEW MEXICO STATE UNIVERSITY

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 17 FACULTY ASSOCIATES	20	0	120	0	50	100	\$23,506.00	\$20,166.00
SUB-TOTAL							<u>\$23,506.00</u>	<u>\$20,166.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. 1 RESEARCH ASSOCIATES-POSTDOCTORAL	120	0	0	0	0	0	\$9,000.00	\$0.00
C. GRADUATE STUDENTS							\$55,500.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$12,750.00	\$0.00
E. SECRETARIAL-CLERICAL							\$4,600.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$105,356.00</u>	<u>\$20,166.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$7,238.00	\$2,559.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$112,594.00</u>	<u>\$22,725.00</u>
D. PERMANENT EQUIPMENT							\$33,290.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$10,350.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$7,700.00	\$0.00
I. OTHER COSTS								
1. CONSULTANTS							\$1,000.00	\$0.00
2. CONTRACTS							\$3,000.00	\$0.00
3. NON-CATEGORIZED ITEMS							\$600.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$168,534.00</u>	<u>\$22,725.00</u>
K. INDIRECT COSTS 41.00% OF A							\$43,194.00	\$8,266.00
L. TOTAL COSTS (J PLUS K)							<u>\$211,728.00</u>	<u>\$30,991.00</u>

UNIVERSITY OF NEW MEXICO

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 1 FACULTY ASSOCIATES	0	10	0	0	0	5	\$1,452.00	\$499.00
SUB-TOTAL							<u>\$1,452.00</u>	<u>\$499.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$3,755.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$5,207.00</u>	<u>\$499.00</u>
B. FRINGE BENEFITS 10.50% OF A							\$546.00	\$52.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$5,753.00</u>	<u>\$551.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$500.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$1,450.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$9,888.00</u>	<u>\$551.00</u>
K. INDIRECT COSTS 36.00% OF A							\$1,874.00	\$179.00
L. TOTAL COSTS (J PLUS K)							<u>\$11,762.00</u>	<u>\$730.00</u>

TEXAS TECH UNIVERSITY

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE		N.S.F.	GRANTEE		
	CAL	ACAD	SUM	CAL			ACAD	SUM
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 5 FACULTY ASSOCIATES	0	45	35	0	11	0	\$8,194.00	\$2,779.00
SUB-TOTAL							<u>\$8,194.00</u>	<u>\$2,779.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$7,200.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$1,700.00	\$0.00
E. SECRETARIAL-CLERICAL							\$0.00	\$600.00
TOTAL SALARIES AND WAGES							<u>\$17,094.00</u>	<u>\$3,379.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$656.00	\$39.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$17,750.00</u>	<u>\$3,418.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$2,675.00	\$1,400.00
F. TRAVEL								
1. DOMESTIC							\$1,677.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$22,102.00</u>	<u>\$4,818.00</u>
K. INDIRECT COSTS 41.00% OF A							\$3,812.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$25,914.00</u>	<u>\$4,818.00</u>

BRIGHAM YOUNG UNIVERSITY

BUDGET SUMMARY

	1/10 MAN-MONTHS							
	N.S.F.		GRANTEE		N.S.F.		GRANTEE	
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 2 FACULTY ASSOCIATES	0	10	40	0	20	0	\$6,778.00	\$3,390.00
SUB-TOTAL							<u>\$6,778.00</u>	<u>\$3,390.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$3,700.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$200.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$10,678.00</u>	<u>\$3,390.00</u>
B. FRINGE BENEFITS 00.00% OF A							\$0.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$10,678.00</u>	<u>\$3,390.00</u>
F. EXPENDABLE EQUIPMENT AND SUPPLIES							\$567.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$1,198.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$12,443.00</u>	<u>\$3,390.00</u>
K. INDIRECT COSTS 40.00% OF A							\$4,271.00	\$1,356.00
L. TOTAL COSTS (J PLUS K)							<u>\$16,714.00</u>	<u>\$4,746.00</u>

UTAH STATE UNIVERSITY

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
A. 3 (CO)PRINCIPAL INVESTIGATOR(S)	60	0	0	30	0	0	\$13,860.00	\$6,930.00
B. 50 FACULTY ASSOCIATES	560	120	20	78	65	95	\$101,358.00	\$40,566.00
SUB-TOTAL							<u>\$115,218.00</u>	<u>\$47,496.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. 7 RESEARCH ASSOCIATES-POSTDOCTORAL	450	0	0	0	0	0	\$54,100.00	\$0.00
B. 6 NON-FACULTY PROFESSIONALS	570	0	0	0	0	0	\$43,635.00	\$726.00
C. GRADUATE STUDENTS							\$76,200.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$19,255.00	\$0.00
E. SECRETARIAL-CLERICAL							\$30,060.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$33,230.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$371,698.00</u>	<u>\$48,222.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$30,241.00	\$5,302.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$401,939.00</u>	<u>\$53,524.00</u>
D. PERMANENT EQUIPMENT							\$63,500.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$53,157.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$113,238.00	\$0.00
2. INTERNATIONAL							\$10,000.00	\$0.00
G. PUBLICATIONS COSTS							\$6,875.00	\$0.00
H. COMPUTER COSTS							\$79,000.00	\$0.00
I. OTHER COSTS								
1. CONSULTANTS							\$27,400.00	\$0.00
2. CONTRACTS							\$82,000.00	\$0.00
3. NON-CATEGORIZED ITEMS							\$25,102.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$864,611.00</u>	<u>\$53,524.00</u>
K. INDIRECT COSTS 60.00% OF A							\$223,018.00	\$28,932.00
L. TOTAL COSTS (J PLUS K)							<u>\$1,087,629.00</u>	<u>\$82,456.00</u>

WASHINGTON STATE UNIVERSITY

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 2 FACULTY ASSOCIATES	0	0	0	0	15	0	\$0.00	\$2,000.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$2,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$4,068.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$4,068.00</u>	<u>\$2,000.00</u>
B. FRINGE BENEFITS 06.00% OF A							\$244.00	\$120.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$4,312.00</u>	<u>\$2,120.00</u>
D. PERMANENT EQUIPMENT							\$1,000.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$500.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$595.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$6,407.00</u>	<u>\$2,120.00</u>
K. INDIRECT COSTS 43.54% OF A							\$1,771.00	\$870.00
L. TOTAL COSTS (J PLUS K)							<u><u>\$8,178.00</u></u>	<u><u>\$2,990.00</u></u>

U.S. PUBLIC HEALTH SERVICE

BUDGET SUMMARY

	1/10 MAN-MONTHS			GRANTEE			N.S.F.	GRANTEE
	N.S.F.	SUM		CAL	ACAD	SUM		
	CAL	ACAD	SUM	CAL	ACAD	SUM		
F. EXPENDABLE EQUIPMENT AND SUPPLIES							\$435.00	\$300.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$435.00</u>	<u>\$300.00</u>
L. TOTAL COSTS (J PLUS K)							<u>\$435.00</u>	<u>\$300.00</u>

OVERALL

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
A. 3 (CO) PRINCIPAL INVESTIGATOR(S)	60	0	0	30	0	0	\$13,860.00	\$6,930.00
B. 50 FACULTY ASSOCIATES	560	120	20	73	65	95	\$101,358.00	\$40,566.00
SUB-TOTAL							<u>\$115,218.00</u>	<u>\$47,496.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. 7 RESEARCH ASSOCIATES-POSTDOCTORAL	450	0	0	0	0	0	\$54,100.00	\$0.00
B. 6 NON-FACULTY PROFESSIONALS	570	0	0	0	0	0	\$43,635.00	\$726.00
C. GRADUATE STUDENTS							\$76,200.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$19,255.00	\$0.00
E. SECRETARIAL-CLERICAL							\$30,060.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$33,230.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$371,698.00</u>	<u>\$48,222.00</u>
B. FRINGE BENEFITS							\$30,241.00	\$5,302.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$401,939.00</u>	<u>\$53,524.00</u>
D. PERMANENT EQUIPMENT							\$63,500.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$53,157.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$113,238.00	\$0.00
2. INTERNATIONAL							\$10,000.00	\$0.00
G. PUBLICATIONS COSTS							\$6,875.00	\$0.00
H. COMPUTER COSTS							\$79,000.00	\$0.00
I. OTHER COSTS								
1. CONSULTANTS							\$27,400.00	\$0.00
2. CONTRACTS							\$1,132,860.00	\$181,299.00
3. NON-CATEGORIZED ITEMS							\$25,102.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$1,915,471.00</u>	<u>\$234,823.00</u>
K. INDIRECT COSTS							\$223,018.00	\$28,932.00
L. TOTAL COSTS (J PLUS K)							<u>\$2,138,489.00</u>	<u>\$263,755.00</u>

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UTAH STATE UNIVERSITY

CENTRAL OFFICE - CENTRAL OFFICE MANAGEMENT AND ADMINISTRATION

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
A. (CO)PRINCIPAL INVESTIGATOR(S)								
GOODALL, DAVID W. BIOME DIRECTOR	60	0	0	30	0	0	\$14,630.00	\$7,320.00
B. FACULTY ASSOCIATES								
ASST. DIRECTOR TO BE APPOINTED	120	0	0	0	0	0	\$15,834.00	\$0.00
MAC MAHON, JAMES A. ASST. DIRECTOR	0	90	10	0	0	0	\$19,265.00	\$0.00
WAGNER, FREDERIC H. DEPUTY DIRECTOR	40	0	0	20	0	0	\$13,120.00	\$1,600.00
SUB-TOTAL							<u>\$62,849.00</u>	<u>\$8,920.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
INTERNATIONAL LIAISON OFFICER	60	0	0	0	0	0	\$8,000.00	\$0.00
EDITOR TO BE APPOINTED	120	0	0	0	0	0	\$12,500.00	\$0.00
B. NON-FACULTY PROFESSIONALS								
CHENEY, D. ASST. EDITOR	90	0	0	0	0	0	\$6,600.00	\$0.00
WALK, FRED D. ADMINISTRATIVE ASST.	50	0	0	10	0	0	\$7,670.00	\$1,000.00
D. PRE-BACCALAUREATE STUDENTS								
PART-TIME ASSISTANTS							\$3,600.00	\$0.00
E. SECRETARIAL-CLERICAL								
3 SECRETARIES							\$15,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$116,219.00</u>	<u>\$9,920.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$10,829.00	\$1,091.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$127,048.00</u>	<u>\$11,011.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							<u>\$15,000.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
18 TRIP(S) @ \$300.00/TRIP							\$5,400.00	\$0.00
INTER BIOME MEETINGS								
30 TRIP(S) @ \$300.00/TRIP							\$9,000.00	\$0.00
BIOME MANAGEMENT TO OTHER INSTITUTIONS								
4 TRIP(S) @ \$1,400.00/TRIP							\$5,600.00	\$0.00
COMMITTEE MEETING								
40 TRIP(S) @ \$300.00/TRIP							\$12,000.00	\$0.00
SPECIALIST MEETINGS								
51 TRIP(S) @ \$200.00/TRIP							\$10,200.00	\$0.00
LIAISON MEETINGS								
60 TRIP(S) @ \$300.00/TRIP							\$18,000.00	\$0.00
PROCESS COORDINATORS								
66 TRIP(S) @ \$300.00/TRIP							\$19,800.00	\$0.00
COLLABORATORS TO NATIONAL MEETINGS								
SUB-TOTAL							<u>\$80,000.00</u>	<u>\$0.00</u>
2. INTERNATIONAL								
SUB-TOTAL							<u>\$15,000.00</u>	<u>\$0.00</u>
G. PUBLICATION COSTS								
SUB-TOTAL							<u>\$10,000.00</u>	<u>\$0.00</u>
H. COMPUTER COSTS								
SUB-TOTAL							<u>\$5,000.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
3. NON-CATEGORIZED ITEMS								
COMMUNICATION COSTS							\$6,000.00	\$0.00
KEY PUNCH RENTAL							\$1,250.00	\$0.00
SUB-TOTAL							<u>\$7,250.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$259,298.00</u>	<u>\$11,011.00</u>
K. INDIRECT COSTS 60.00% OF A							\$69,731.00	\$5,952.00
L. TOTAL COSTS (J PLUS K)							<u>\$329,029.00</u>	<u>\$16,963.00</u>

UTAH STATE UNIVERSITY

CENTRAL OFFICE - DATA PROCESSING AND RETRIEVAL

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
OFFICER IN CHARGE - TO BE APPOINTED	120	0	0	0	0	0	\$15,500.00	\$0.00
B. NON-FACULTY PROFESSIONALS								
KING, VERNE SENIOR PROGRAMMER	120	0	0	0	0	0	\$9,950.00	\$0.00
OLSEN, ALMA D. SENIOR PROGRAMMER	120	0	0	0	0	0	\$9,950.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
PROGRAMMING ASSISTANCE							\$8,000.00	\$0.00
E. SECRETARIAL-CLERICAL								
KEY PUNCH OPERATORS							\$9,300.00	\$0.00
TOTAL SALARIES AND WAGES.							<u>\$52,700.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$4,157.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$56,857.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
COMPUTER SUPPLIES							\$3,000.00	\$0.00
OFFICE SUPPLIES							\$2,000.00	\$0.00
SUB-TOTAL.							<u>\$5,000.00</u>	<u>\$0.00</u>
H. COMPUTER COSTS								
SUB-TOTAL.							<u>\$40,000.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
3. NON-CATEGORIZED ITEMS								
KEY PUNCH RENTAL							\$2,880.00	\$0.00
SUB-TOTAL.							<u>\$2,880.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$104,737.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 60.00% OF A							\$31,620.00	\$0.00
L. TOTAL COSTS (J PLUS K).							<u>\$136,357.00</u>	<u>\$0.00</u>

UTAH STATE UNIVERSITY

CENTRAL OFFICE MODELLING

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
A. (CO)PRINCIPAL INVESTIGATOR(S)								
GOODALL, DAVID W. (BIOME DIRECTOR)	0	0	0	0	0	0	\$0.00	\$0.00
B. FACULTY ASSOCIATES								
BRIDGES, KENT ASST. DIRECTOR MODELING	90	0	0	0	30	0	\$12,140.00	\$4,750.00
JENSEN, RANDEL	40	0	0	0	0	10	\$7,285.00	\$1,000.00
WATSON, JAMES	0	30	10	0	0	10	\$6,333.00	\$1,000.00
SUB-TOTAL							\$25,758.00	\$6,750.00
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL TO BE APPOINTED	120	0	0	0	0	0	\$12,500.00	\$0.00
C. GRADUATE STUDENTS								
6 RESEARCH ASSISTANTS							\$24,000.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS PART-TIME PROGRAMMING							\$1,500.00	\$0.00
E. SECRETARIAL-CLERICAL SECRETARIAL & KEY PUNCH							\$6,500.00	\$0.00
TOTAL SALARIES AND WAGES							\$70,258.00	\$6,750.00
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$5,503.00	\$742.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							\$75,761.00	\$7,492.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
COMPUTER SUPPLIES							\$3,000.00	\$0.00
XEROX 2000 PAGES/MO @ .03/PAGE (24,000)							\$720.00	\$0.00
SUB-TOTAL							\$3,720.00	\$0.00
F. TRAVEL								
1. DOMESTIC								
20 TRIP(S) @ \$350.00/TRIP							\$7,000.00	\$0.00
LOGAN TO LAS CRUCES							\$9,000.00	\$0.00
30 TRIP(S) @ \$300.00/TRIP							\$1,875.00	\$0.00
LOGAN TO TUCSON							\$1,875.00	\$0.00
5 TRIP(S) @ \$375.00/TRIP							\$1,875.00	\$0.00
VARIOUS OTHER BIOME CENTERS							\$17,875.00	\$0.00
SUB-TOTAL							\$17,875.00	\$0.00
G. PUBLICATION COSTS								
25 MODELS @ 50 PAGES/MODEL X 100 COPIES							\$2,000.00	\$0.00
SUB-TOTAL							\$2,000.00	\$0.00
H. COMPUTER COSTS								
12 MONTHS @ 5000./MO							\$60,000.00	\$0.00
SUB-TOTAL							\$60,000.00	\$0.00
I. OTHER COSTS								
1. CONSULTANTS								
HONORARIA FOR CONSULTANTS							\$25,000.00	\$0.00
SUB-TOTAL							\$25,000.00	\$0.00
2. CONTRACTS								
SUBCONTRACTS FOR SHORT TERM PROJECTS							\$75,000.00	\$0.00
SUB-TOTAL							\$75,000.00	\$0.00
3. NON-CATEGORIZED ITEMS								
CONFERENCE TELEPHONE UNITS 4 X 12/MO. @ \$12./MO.							\$576.00	\$0.00
COMMUNICATION							\$6,000.00	\$0.00
INTERPRETING KEY PUNCH @ \$111/MO.							\$1,332.00	\$0.00
SUB-TOTAL							\$7,908.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							\$267,264.00	\$7,492.00
K. INDIRECT COSTS 60.00% OF A							\$42,154.00	\$4,050.00
L. TOTAL COSTS (J PLUS K)							\$309,418.00	\$11,542.00

UTAH STATE UNIVERSITY

VALIDATION STUDIES - CURLEW VALLEY - UTAH AND IDAHO - TERRESTRIAL
PROPOSAL 4-2-1-1

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
ASHCROFT, GAYLAN L.	0	0	0	0	0	0	\$0.00	\$0.00
BALPH, DAVID F. SITE COORDINATOR	60	0	0	0	20	0	\$10,176.00	\$4,000.00
DIRMHORN, INGE	0	0	0	0	0	0	\$0.00	\$0.00
DIXON, KEITH	0	0	0	0	0	0	\$0.00	\$0.00
HANKS, ROBERT J.	0	0	0	0	0	0	\$0.00	\$0.00
HSIAO, TING H.	0	0	0	0	0	0	\$0.00	\$0.00
KNOWLTON, GEORGE F.	30	0	0	0	0	0	\$2,000.00	\$0.00
LYNN, RAYMOND I.	0	0	0	0	0	0	\$0.00	\$0.00
MALECZEK, JOHN	0	0	0	0	0	0	\$0.00	\$0.00
SKUJINS, JOHN J.	0	0	0	0	0	0	\$0.00	\$0.00
WAGNER, FREDERIC H. DEPUTY DIRECTOR	0	0	0	0	0	0	\$0.00	\$0.00
SUB-TOTAL							<u>\$12,176.00</u>	<u>\$4,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
STODDART, CHARLES	120	0	0	0	0	0	\$13,000.00	\$0.00
C. GRADUATE STUDENTS								
2 RESEARCH ASSISTANT							\$8,000.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
2 TECHNICIANS							\$15,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$48,176.00</u>	<u>\$4,000.00</u>
B. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A							\$3,499.00	\$440.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$51,675.00</u>	<u>\$4,440.00</u>
F. EXPENDABLE EQUIPMENT AND SUPPLIES								
COLLECTING SUPPLIES							\$1,000.00	\$0.00
FIELD AND OFFICE SUPPLIES							\$2,000.00	\$0.00
SPECIMEN PREPARATION SUPPLIES							\$1,000.00	\$0.00
SUB-TOTAL							<u>\$4,000.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
120 TRIP(S) OF 200 MILES @ \$0.10/MILE CURLEW VALLEY							\$2,400.00	\$0.00
SUB-TOTAL							<u>\$2,400.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
2. CONTRACTS								
CHEMICAL ANALYSIS							\$3,000.00	\$0.00
HONORARIA ANDERSON, HOLTE, LOEBECK, TROST							\$1,000.00	\$0.00
SUB-TOTAL							<u>\$4,000.00</u>	<u>\$0.00</u>
3. NON-CATEGORIZED ITEMS								
RENTAL AND OPERATION OF 3 TRUCKS FOR ONE YEAR							\$5,000.00	\$0.00
SUB-TOTAL							<u>\$5,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$67,075.00</u>	<u>\$4,440.00</u>
K. INDIRECT COSTS 60.00% OF A							\$28,905.00	\$2,400.00
L. TOTAL COSTS (J PLUS K)							<u>\$95,980.00</u>	<u>\$6,840.00</u>

IDAHO STATE UNIVERSITY

VALIDATION STUDY - DEEP CREEK VALIDATION STUDY
PROPOSAL 4-2-1-2

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE		CAL ACAD SUM			
	CAL	ACAD	SUM	CAL	ACAD	SUM	N.S.F.	GRANTEE

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
MINSHALL, G. WAYNE PROJECT LEADER	0	15	0	0	0	20	\$1,600.00	\$1,850.00
ROSE, FRED L.	0	10	0	0	0	20	\$1,200.00	\$1,100.00
SUB-TOTAL							<u>\$2,800.00</u>	<u>\$2,950.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
4 GRADUATE ASSISTANTS							\$17,200.00	\$0.00
E. SECRETARIAL-CLERICAL							\$500.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$5,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$25,500.00</u>	<u>\$2,950.00</u>
B. FRINGE BENEFITS 14.00% OF A							\$3,570.00	\$413.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$29,070.00</u>	<u>\$3,363.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$1,600.00	\$0.00
SUB-TOTAL							<u>\$1,600.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
50 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$1,000.00	\$0.00
CURLEW VALLEY								
25 DAYS AT \$16.00/DAY PER DIEM							\$400.00	\$0.00
SUB-TOTAL							<u>\$1,400.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
2. CONTRACTS								
CONTRACT ANALYSIS							\$2,000.00	\$0.00
SUB-TOTAL							<u>\$2,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$34,070.00</u>	<u>\$3,363.00</u>
K. INDIRECT COSTS 43.90% OF A							\$11,194.00	\$1,295.00
L. TOTAL COSTS (J PLUS K)							<u>\$45,264.00</u>	<u>\$4,658.00</u>

UNIVERSITY OF CALIFORNIA, LOS ANGELES

VALIDATION STUDIES - VALIDATION STUDIES AT ROCK VALLEY, NEVADA TEST
 SITE, NEVADA
 PROPOSAL 4.2.2.1

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
R. FACULTY ASSOCIATES								
BAMBERG, SAMUEL A.	0	30	0	0	0	0	\$4,433.00	\$0.00
TURNER, FREDERICK B. PROJECT LEADER	0	30	0	0	0	0	\$5,200.00	\$0.00
SUB-TOTAL							<u>\$9,633.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
B. NON-FACULTY PROFESSIONALS								
ACKERMAN, TOM	60	0	0	0	0	0	\$3,452.00	\$0.00
MAZA, BERNARDO	60	0	0	0	0	0	\$3,300.00	\$0.00
MEDICA, PHILIP A.	60	0	0	0	0	0	\$4,192.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER FIELD ASSISTANTS							\$3,500.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$24,077.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 13.00% OF A1 ,A2B AND 10.00% OF REMAINDER OF A							\$3,025.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$27,102.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
OFFICE FIELD SUPPLIES							\$2,000.00	\$0.00
SUB-TOTAL							<u>\$2,000.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
3 TRIP(S) @ \$73.00/TRIP TUSCON							\$219.00	\$0.00
40 TRIP(S) OF 550 MILES @ \$0.10/MILE ROCK VALLEY							\$2,200.00	\$0.00
40 TRIP(S) @ \$50.00/TRIP WESTWOOD - VALIDATION SITE							\$2,000.00	\$0.00
200 DAYS AT \$7.50/DAY PER DIEM							\$1,500.00	\$0.00
SUB-TOTAL							<u>\$5,919.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
2. CONTRACTS								
CHEMICAL ANALYSIS							\$5,000.00	\$0.00
SUB-TOTAL							<u>\$5,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$40,021.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 47% ON CAMPUS 27% OFF CAMPUS							\$8,201.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$48,222.00</u>	<u>\$0.00</u>

CALIFORNIA STATE COLLEGE AT LONG BEACH

VALIDATION STUDY - VALIDATION STUDIES AT ROCK VALLEY, NEVADA TEST SITE,
NEVADA (ARTHR0001)
PROPOSAL 4.2.2.1

	1/10 MAN-MONTHS				N.S.F.		GRANTEE	
	CAL	ACAD	SUM	CAL	ACAD	SUM	N.S.F.	GRANTEE

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
SLEEPER, ELBERT L.		0	20	0	0	0	20	\$2,300.00
SUB-TOTAL								<u>\$2,300.00</u>
\$2,000.00								<u>\$2,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
B. NON-FACULTY PROFESSIONALS								
TECHNICIAN		0	0	0	0	0	0	\$8,000.00
\$1,500.00								<u>\$1,500.00</u>
TOTAL SALARIES AND WAGES								<u>\$10,300.00</u>
\$3,500.00								<u>\$3,500.00</u>
B. FRINGE BENEFITS 10.30% OF A1, A2B AND 00.00% OF REMAINDER OF A								\$1,060.00
\$360.00								<u>\$360.00</u>
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)								<u>\$11,360.00</u>
\$3,860.00								<u>\$3,860.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
COLLECTING BAGS, AND FOR D-VAC AND MISC CLOTH-WARE								\$300.00
\$100.00								<u>\$100.00</u>
VIALS AND JARS (STORAGE) AND MISC. GLASSWARE								\$200.00
\$200.00								<u>\$200.00</u>
SUB-TOTAL								<u>\$500.00</u>
\$300.00								<u>\$300.00</u>
F. TRAVEL								
1. DOMESTIC								
30 TRIP(S) OF 300 MILES @ \$0.10/MILE								\$900.00
LONG BEACH TO ROCK VALLEY								\$0.00
8 TRIP(S) @ \$62.00/TRIP								\$496.00
LOCAL AREA								\$0.00
6 TRIP(S) OF 300 MILES @ \$0.10/MILE								\$0.00
ROCK VALLEY								\$180.00
30 DAYS AT \$7.50/DAY PER DIEM								\$225.00
\$0.00								<u>\$0.00</u>
SUB-TOTAL								<u>\$1,621.00</u>
\$180.00								<u>\$180.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)								<u>\$13,481.00</u>
\$4,340.00								<u>\$4,340.00</u>
K. INDIRECT COSTS 24.53% OF J-D								\$3,306.00
\$1,664.00								<u>\$1,664.00</u>
L. TOTAL COSTS (J PLUS K)								<u>\$16,787.00</u>
\$5,404.00								<u>\$5,404.00</u>

UNIVERSITY OF SOUTHERN CALIFORNIA

VALIDATION STUDIES - VALIDATION STUDIES AT ROCK VALLEY, NEVADA TEST
SITE, NEVADA
PROPOSAL 4.2.2.1

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
CHEW, ROBERT M.	0	0	4	0	7	0	\$728.00	\$1,700.00
SUB-TOTAL							<u>\$728.00</u>	<u>\$1,700.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT (PART-TIME)							\$1,600.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
TECHNICIAN (OFF CAMPUS)							\$1,101.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$3,429.00</u>	<u>\$1,700.00</u>
B. FRINGE BENEFITS 07.00% OF A							\$240.00	\$119.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$3,669.00</u>	<u>\$1,819.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$200.00	\$0.00
SUB-TOTAL							<u>\$200.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
10 TRIP(S) @ \$50.00/TRIP							\$500.00	\$0.00
ROCK VALLEY								
SUB-TOTAL							<u>\$500.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$4,369.00</u>	<u>\$1,819.00</u>
K. INDIRECT COSTS 44.00% OF A							\$1,508.00	\$748.00
L. TOTAL COSTS (J PLUS K)							<u><u>\$5,877.00</u></u>	<u><u>\$2,567.00</u></u>

U.S. PUBLIC HEALTH SERVICE

VALIDATION STUDIES - DEATH VALLEY DRAINAGE - BOCK VALLEY
 PROPOSAL 4.2.2.1

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
AU, FRED H. (FEDERAL EMPLOYEE)	0	0	0	0	0	0	\$0.00	\$0.00
SUB-TOTAL							----- \$0.00	----- \$0.00
TOTAL SALARIES AND WAGES							----- \$0.00	----- \$0.00
B. FRINGE BENEFITS 00.00% OF A							\$0.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							----- \$0.00	----- \$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
CULTURE MEDIA							\$50.00	\$0.00
DISPOSABLE PIPETTES AND OTHER LAB ITEMS							\$135.00	\$0.00
DISPOSABLE PETRI DISHES							\$100.00	\$300.00
TEST TUBES							\$150.00	\$0.00
SUB-TOTAL							----- \$435.00	----- \$300.00
J. TOTAL DIRECT COSTS (C THROUGH I)							----- \$435.00	----- \$300.00
K. INDIRECT COSTS 0% OF A							\$0.00	\$0.00
L. TOTAL COSTS (J PLUS K)							----- \$435.00	----- \$300.00

UNIVERSITY OF ARIZONA

VALIDATION STUDIES - TUCSON BASIN GENERAL
PROPOSAL 4-2-3

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
H. FACULTY ASSOCIATES								
BARTLETT, E. T. ASSOC COORDINATOR	0	60	0	0	10	0	\$6,000.00	\$1,000.00
COCKRUM, F.	0	0	0	0	20	0	\$0.00	\$1,750.00
EHPENKEICH, J.	0	0	0	0	10	0	\$0.00	\$1,000.00
LOWE, CHARLES H.	0	0	0	0	10	0	\$0.00	\$1,000.00
NUTTING, WILLIAM L.	0	0	0	0	0	0	\$0.00	\$0.00
RUSSELL, STEPHEN M.	0	0	0	0	10	0	\$0.00	\$1,200.00
THAMES, J. L. PROJECT LEADER	0	10	0	0	30	0	\$1,000.00	\$6,000.00
WERNER, FLOYD G.	0	0	0	0	20	0	\$0.00	\$2,000.00
SUB-TOTAL							<u>\$7,000.00</u>	<u>\$13,950.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
B. NON-FACULTY PROFESSIONALS								
BIO-TECHNICIANS (2)	0	0	0	0	0	0	\$16,000.00	\$0.00
C. GRADUATE STUDENTS								
3 RESEARCH ASSISTANTS								
SUB-TOTAL							\$15,000.00	\$0.00
F. SECRETARIAL-CLERICAL								
SUB-TOTAL							\$2,500.00	\$1,500.00
TOTAL SALARIES AND WAGES							<u>\$40,500.00</u>	<u>\$15,450.00</u>
B. FRINGE BENEFITS 07.00% OF A1 ,A2A,A2B AND 01.00% OF REMAINDER OF A								
							\$1,785.00	\$991.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$42,285.00</u>	<u>\$16,441.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
OFFICE AND FIELD SUPPLIES								
SUB-TOTAL							\$2,500.00	\$0.00
F. TRAVEL								
1. DOMESTIC								
250 TRIP(S) OF 100 MILES @ \$0.10/MILE								
TUCSON AND SILVER BELL								
SUB-TOTAL							\$2,500.00	\$0.00
I. OTHER COSTS								
2. CONTRACTS								
CHEMICAL ANALYSIS								
SUB-TOTAL							\$3,000.00	\$0.00
3. NON-CATEGORIZED ITEMS								
UTILITIES (SR)								
SUB-TOTAL							\$1,220.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$51,505.00</u>	<u>\$16,441.00</u>
K. INDIRECT COSTS 44.95% OF A								
							\$18,204.00	\$6,944.00
L. TOTAL COSTS (J PLUS K)							<u>\$69,709.00</u>	<u>\$23,385.00</u>

NEW MEXICO STATE UNIVERSITY

VALIDATION STUDIES -- JORNADA -- NEW MEXICO
PROPOSAL 4-2-4

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
LUDWIG, JOHN	0	0	20	0	0	0	\$2,950.00	\$0.00
O'BRIEN, ROBERT T.	0	0	10	0	0	0	\$1,800.00	\$0.00
RAITT, R. J.	0	0	10	0	0	0	\$2,000.00	\$0.00
WHITFORD, W. G. PROJECT LEADER	0	0	20	0	0	0	\$3,360.00	\$0.00
ZIMMERMAN, J. R.	0	0	10	0	0	0	\$1,900.00	\$0.00
SUB-TOTAL							<u>\$12,010.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
1 TO BE APPOINTED	120	0	0	0	0	0	\$9,000.00	\$0.00
C. GRADUATE STUDENTS								
4 GRADUATE ASSISTANTS							\$22,650.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
4 UNDERGRADUATE ASSISTANTS							\$4,000.00	\$0.00
E. SECRETARIAL-CLERICAL								
SECRETARY-CLERICAL							\$3,600.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$51,260.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$3,566.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$54,826.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							<u>\$2,500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
500 TRIP(S) OF 50 MILES @ \$0.10/MILE							\$2,500.00	\$0.00
JORNADA								
SUB-TOTAL							<u>\$2,500.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
1. CONSULTANTS								
CONSULTANTS							\$1,000.00	\$0.00
SUB-TOTAL							<u>\$1,000.00</u>	<u>\$0.00</u>
2. CONTRACTS								
CONTRACT ANALYSIS							\$3,000.00	\$0.00
SUB-TOTAL							<u>\$3,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$63,826.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 41.00% OF A							\$21,016.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$84,842.00</u>	<u>\$0.00</u>

UTAH STATE UNIVERSITY

VALIDATION STUDY - SEED RESERVES IN THE VALIDATION STUDY AREAS
 PROPOSAL 4.3.1

	1/10 MAN-MONTHS		N.S.F.		GRANTEE		N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
A. (CO)PRINCIPAL INVESTIGATOR(S)								
GOODALL, DAVID W. (BIOME DIRECTOR)	0	0	0	0	0	0	\$0.00	\$0.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASST.							\$3,600.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
PART-TIME							\$1,500.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$5,100.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A							\$306.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$5,406.00</u>	<u>\$0.00</u>
D. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							<u>\$500.00</u>	<u>\$0.00</u>
E. TRAVEL								
1. DOMESTIC								
15 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$300.00	\$0.00
CURLEW VALLEY								
9 TRIP(S) @ \$200.00/TRIP							\$1,800.00	\$0.00
ROCK VALLEY - TUCSON - LAS CRUCES								
SUB-TOTAL							<u>\$2,100.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$8,006.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 60.00% OF A							\$3,060.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$11,066.00</u>	<u>\$0.00</u>

UNIVERSITY OF NEVADA AG ESP STA

VALIDATION STUDIES - APPLICATIONS OF REMOTE SENSING TECHNIQUES FOR
ANALYSIS OF DESERT BIOME VALIDATION SITES
PROPOSAL 4.3.2

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
TUJELLER, PAUL	0	0	0	0	0	10	\$0.00	\$2,000.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$2,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL	90	0	0	0	0	0	\$9,800.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$10,800.00</u>	<u>\$2,000.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$561.00	\$104.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$11,361.00</u>	<u>\$2,104.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
FILM COST, PROCESSING FILM, IR FILM CALB ENLARGEMENTS							\$3,000.00	\$0.00
SUB-TOTAL							<u>\$3,000.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
16 TRIP(S) @ \$150.00/TRIP							\$2,400.00	\$0.00
CURLEW , ROCK VALLEY, TUCSON, LAS CRUCES								
SUB-TOTAL							<u>\$2,400.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
3. NON-CATEGORIZED ITEMS								
AIRCRAFT RENTAL							\$3,100.00	\$0.00
SUB-TOTAL							<u>\$3,100.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$19,861.00</u>	<u>\$2,104.00</u>
K. INDIRECT COSTS 60.00% OF A							\$417.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$20,278.00</u>	<u>\$2,104.00</u>

UNIVERSITY OF CALIFORNIA, RIVERSIDE

VALIDATION STUDIES -- THE BIOLOGY OF NEMATODES IN DESERT ECOSYSTEMS
PROPOSAL 4.3.3

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
MANKAU, R.	0	0	0	0	20	0	\$0.00	\$2,170.00
SHER, S. A.	0	0	0	0	15	0	\$0.00	\$1,200.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$3,370.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASST.							\$4,526.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
1 LAB. HELPER,							\$2,580.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$7,106.00</u>	<u>\$3,370.00</u>
B. FRINGE BENEFITS 13.00% OF A1, A2B AND 00.00% OF REMAINDER OF A							\$0.00	\$438.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$7,106.00</u>	<u>\$3,808.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							<u>\$1,500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
20 TRIP(S) @ \$250.00/TRIP							\$5,000.00	\$0.00
50 TRIP(S) @ 250 MILES @ \$0.12/MILE							\$1,500.00	\$0.00
SUB-TOTAL							<u>\$6,500.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$15,106.00</u>	<u>\$3,808.00</u>
K. INDIRECT COSTS 47.00% OF A							\$3,339.00	\$1,583.00
L. TOTAL COSTS (J PLUS K)							<u>\$18,445.00</u>	<u>\$5,391.00</u>

ARIZONA STATE UNIVERSITY

PLANT PROCESS STUDY COORDINATOR

	1/10 MAN-MONTHS		N.S.F.	GRANTEE
	N.S.F.	GRANTEE		
	CAL ACAD SUM	CAL ACAD SUM		

A. SALARIES AND WAGES				
2. OTHER PERSONNEL (NON-FACULTY)				
E. SECRETARIAL-CLERICAL			\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES.			<u>\$1,000.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 11.20% OF A1 ,A2A,A2B AND 01.00% OF REMAINDER OF A			\$10.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).			<u>\$1,010.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES				
SUB-TOTAL.			<u>\$250.00</u>	<u>\$0.00</u>
I. OTHER COSTS				
1. CONSULTANTS				
PATTEN, DUNCAN T. HONORARIUM - TO BE PAID BY USU			\$3,000.00	\$0.00
SUB-TOTAL.			<u>\$3,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).			<u>\$4,260.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 55.60% OF A			\$556.00	\$0.00
L. TOTAL COSTS (J PLUS K).			<u>\$4,816.00</u>	<u>\$0.00</u>

UNIVERSITY OF SOUTHERN CALIFORNIA

VERTEBRATE PROCESS COORDINATOR

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
CHEW, ROBERT M.	0	10	10	0	10	0	\$3,698.00	\$1,849.00
SUB-TOTAL							<u>\$3,698.00</u>	<u>\$1,849.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
E. SECRETARIAL-CLERICAL								
1 SECRETARY PART-TIME							\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$4,698.00</u>	<u>\$1,849.00</u>
R. FRINGE BENEFITS 07.00% OF A							\$328.00	\$129.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+R)							<u>\$5,026.00</u>	<u>\$1,978.00</u>
F. EXPENDABLE EQUIPMENT AND SUPPLIES							\$250.00	\$0.00
SUB-TOTAL							<u>\$250.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH F)							<u>\$5,276.00</u>	<u>\$1,978.00</u>
K. INDIRECT COSTS 44.00% OF A							\$2,067.00	\$813.00
L. TOTAL COSTS (J PLUS K)							<u>\$7,343.00</u>	<u>\$2,791.00</u>

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PROCESS STUDY -- RELATIONSHIP OF REPRODUCTION, MORTALITY, AND GROWTH OF
PEROGNATHUS FORMOSUS AND OTHER DESERT RODENTS TO VEGETATION PRODUCTION
AND DENSITY, AN EXPERIMENTAL STUDY
PROPOSAL 5.3.4

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE		N.S.F.	GRANTEE		
	CAL	ACAD	SUM	CAL			ACAD	SUM

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
CHEW, ROBERT M.	0	0	10	0	20	0	\$2,002.00	\$4,000.00
SUB-TOTAL							<u>\$2,002.00</u>	<u>\$4,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. RESEARCH ASSOCIATES-POSTDOCTORAL								
RESEARCH ASSOCIATE	60	0	0	0	0	0	\$6,380.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
LABOR TO DO MANIPULATIONS OF TEST PLOTS							\$1,320.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$9,702.00</u>	<u>\$4,000.00</u>
B. FRINGE BENEFITS 13.00% OF A1 ,A2B AND 00.00% OF REMAINDER OF A							\$260.00	\$520.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$9,962.00</u>	<u>\$4,520.00</u>
D. PERMANENT EQUIPMENT								
COMPONENTS FOR ACTIVITY MONITORS							\$600.00	\$0.00
LIVE TRAPS							\$1,200.00	\$0.00
SUB-TOTAL							<u>\$1,800.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							<u>\$500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
12 TRIP(S) @ \$65.00/TRIP							\$780.00	\$0.00
MERCURY, NEVADA								
80 DAYS AT \$7.50/DAY PER DIEM							\$600.00	\$0.00
SUB-TOTAL							<u>\$1,380.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$13,642.00</u>	<u>\$4,520.00</u>
K. INDIRECT COSTS 44.00% CAMPUS, 26.00% OFF CAMPUS							\$2,540.00	\$1,585.00
L. TOTAL COSTS (J PLUS K)							<u>\$16,182.00</u>	<u>\$6,105.00</u>

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PROCESS STUDIES -- THE CONSUMPTION, UTILIZATION, AND MODIFICATION OF
NUTRITIONAL RESOURCES BY THE JACKRABBIT (LEPUS CALIFORNICUS) IN THE
MOHAVE DESERT
PROPOSAL 5.3.7

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
COSTA, W. R.	0	0	20	0	0	0	\$2,178.00	\$0.00
SHOEMAKER, V. H.	0	0	20	0	0	10	\$1,788.00	\$1,609.00
SUB-TOTAL							<u>\$3,966.00</u>	<u>\$1,609.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$3,024.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$6,990.00</u>	<u>\$1,609.00</u>
H. FRINGE BENEFITS 13.00% OF A1, A2B AND 00.00% OF REMAINDER OF A							\$515.00	\$209.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$7,505.00</u>	<u>\$1,818.00</u>
F. EXPENDABLE EQUIPMENT AND SUPPLIES								
COUNTING VIALS AND SCINTILLATION FLUID INGREDIENTS							\$125.00	\$0.00
FED							\$60.00	\$0.00
MISC. SUPPLIES (CHEMICALS, GLASSWARE, SYRINGES, NEEDLES)							\$150.00	\$0.00
TRITIATED WATER							\$75.00	\$0.00
SUB-TOTAL							<u>\$410.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
15 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$300.00	\$0.00
BARSTOW, CALIFORNIA								
SUB-TOTAL							<u>\$300.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$8,215.00</u>	<u>\$1,818.00</u>
K. INDIRECT COSTS 47% ON CAMPUS, 26% OFF							\$2,781.00	\$756.00
L. TOTAL COSTS (J PLUS K).							<u><u>\$10,996.00</u></u>	<u><u>\$2,574.00</u></u>

BRIGHAM YOUNG UNIVERSITY

PROCESS STUDY - DEMOGRAPHY AND INDIVIDUAL GROWTH OF DIPYDOMYS MERRIAMII,
D. MICROPS, D. ORDII, AND PEROMYSCUS MANICULATUS
PROPOSAL 5-3-11

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE		N.S.F.	GRANTEE		
	CAL	ACAD	SUM	CAL			ACAD	SUM
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
JORGENSEN, CLIVE D.	0	0	20	0	10	0	\$3,871.00	\$1,935.00
SMITH, H. DUANE	0	10	20	0	10	0	\$2,907.00	\$1,455.00
SUB-TOTAL							<u>\$6,778.00</u>	<u>\$3,390.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 GRADUATE RESEARCH ASST 50% A/Y FULL SUM							\$3,700.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
HOURLY WAGES							\$200.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$10,678.00</u>	<u>\$3,390.00</u>
B. FRINGE BENEFITS 00.00% OF A							\$0.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$10,678.00</u>	<u>\$3,390.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
CAGE BREAKAGE							\$100.00	\$0.00
MOUSE NESTING MATERIALS							\$107.00	\$0.00
RODENT FOOD							\$360.00	\$0.00
SUB-TOTAL							<u>\$567.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
4 TRIP(S) OF 940 MILES @ \$0.11/MILE							\$413.00	\$0.00
ROCK VALLEY								
8 TRIP(S) OF 140 MILES @ \$0.11/MILE							\$123.00	\$0.00
BEN MORE STATION								
8 TRIP(S) OF 525 MILES @ \$0.11/MILE							\$462.00	\$0.00
PINE VALLEY								
SUB-TOTAL							<u>\$998.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$12,243.00</u>	<u>\$3,390.00</u>
K. INDIRECT COSTS 40.00% OF A							\$4,271.00	\$1,356.00
L. TOTAL COSTS (J PLUS K)							<u>\$16,514.00</u>	<u>\$4,746.00</u>

UNIVERSITY OF ARIZONA

INVERTEBRATE PROCESS STUDY COORDINATOR

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
R. FACULTY ASSOCIATES								
WERNER, FLOYD G.	17	0	0	8	0	0	\$3,266.00	\$1,633.00
SUB-TOTAL							<u>\$3,266.00</u>	<u>\$1,633.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
E. SECRETARIAL-CLERICAL								
1 SECRETARY PART-TIME							\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$4,266.00</u>	<u>\$1,633.00</u>
B. FRINGE BENEFITS (7.00% OF A1, A2A, A2B AND 01.00% OF REMAINDER OF A)							\$238.00	\$114.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$4,504.00</u>	<u>\$1,747.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
OFFICE SUPPLIES							\$250.00	\$0.00
SUB-TOTAL							<u>\$250.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$4,754.00</u>	<u>\$1,747.00</u>
K. INDIRECT COSTS 44.95% OF A							\$1,917.00	\$734.00
L. TOTAL COSTS (J PLUS K)							<u>\$6,671.00</u>	<u>\$2,481.00</u>

NORTHERN ARIZONA UNIVERSITY

PROCESS STUDIES -- SEED CONSUMPTION BY BRUCHIDAE OF THE SONORAN DESERT
 (COLEOPTERA)
 PROPOSAL 5.4.3

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
JOHNSON, CLARENCE D.	0	0	10	0	10	0	\$1,650.00	\$1,650.00
SUB-TOTAL							<u>\$1,650.00</u>	<u>\$1,650.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANTS							\$4,800.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
2 PART-TIME HELP							\$1,500.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$7,950.00</u>	<u>\$1,650.00</u>
B. FRINGE BENEFITS 12.00% OF A							\$954.00	\$198.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$8,904.00</u>	<u>\$1,848.00</u>
F. TRAVEL								
1. DOMESTIC								
13 TRIP(S) OF 700 MILES @ \$0.17/MILE							\$1,547.00	\$0.00
FLAGSTAFF TO TUCSON								
80 DAYS AT \$6.50/DAY PER DIEM							\$520.00	\$0.00
SUB-TOTAL							<u>\$2,067.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$10,971.00</u>	<u>\$1,848.00</u>
K. INDIRECT COSTS 34.27% OF C							\$3,051.00	\$633.00
L. TOTAL COSTS (J PLUS K)							<u>\$14,022.00</u>	<u>\$2,481.00</u>

UNIVERSITY OF ARIZONA

PROCESS STUDY -- DEMOGRAPHY OF TERMITES COLONIES IN RELATION TO VARIOUS ENVIRONMENTAL FACTORS
PROPOSAL 5-4-4

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
NUTTING, WILLIAM L.			0	0	0	5	0	0
SUB-TOTAL							\$0.00	\$1,050.00
							<u>\$0.00</u>	<u>\$1,050.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 GRADUATE ASSOCIATE IN RESEARCH							\$4,500.00	\$0.00
1 GRADUATE ASSISTANT IN RESEARCH							\$3,800.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
PART-TIME STUDENT HELP, 400 HR @ 1.75/HR AVG							\$700.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$9,000.00</u>	<u>\$1,050.00</u>
B. FRINGE BENEFITS 07.00% OF A1, A2A, A2B AND 01.00% OF REMAINDER OF A							\$90.00	\$73.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$9,090.00</u>	<u>\$1,123.00</u>
D. PERMANENT EQUIPMENT								
1 STEREOMICROSCOPE, WILD M-5, LAMP, TRANSFORMER,							\$1,100.00	\$0.00
SUB-TOTAL							<u>\$1,100.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
NEST MATERIALS, GLASSWARE AND LABORATORY SUPPLIES							\$200.00	\$0.00
SUB-TOTAL							<u>\$200.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
52 TRIP(S) OF 80 MILES @ \$0.10/MILE							\$416.00	\$0.00
TUCSON TO SILVER BELL, SANTA RITA								
SUB-TOTAL							<u>\$416.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$10,806.00</u>	<u>\$1,123.00</u>
K. INDIRECT COSTS 44.95% OF A							\$4,045.00	\$471.00
L. TOTAL COSTS (J PLUS K)							<u>\$14,851.00</u>	<u>\$1,594.00</u>

UNIVERSITY OF ARIZONA

PROCESS STUDY - CONSUMPTION OF LABREA BY CHEWING INSECTS
 PROPOSAL 5446

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
WERNER, FLOYD G.	0	0	0	3	0	0	\$0.00	\$400.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$400.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 GRADUATE ASSISTANT IN RESEARCH							\$3,800.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
1 PART-TIME STUDENT HELP, 400 HR @ 1.75/HR AVG							\$700.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$4,500.00</u>	<u>\$400.00</u>
B. FRINGE BENEFITS 07.00% OF A1 ,A2A,A2B AND 01.00% OF REMAINDER OF A							\$45.00	\$28.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$4,545.00</u>	<u>\$428.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
CAGES, FIELD AND LABORATORY SUPPLIES							\$250.00	\$0.00
SUB-TOTAL							<u>\$250.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
40 TRIP(S) OF 100 MILES @ \$1.00/MILE							\$4,000.00	\$0.00
SILVER BELL								
50 TRIP(S) OF 20 MILES @ \$0.10/MILE							\$100.00	\$0.00
LOCAL								
SUB-TOTAL							<u>\$4,100.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$8,895.00</u>	<u>\$428.00</u>
K. INDIRECT COSTS 44.95% OF A							\$2,022.00	\$179.00
L. TOTAL COSTS (J PLUS K)							<u>\$10,917.00</u>	<u>\$607.00</u>

NEW MEXICO STATE UNIVERSITY

MICROORGANISM COORDINATOR

	1/10 MAN-MONTHS		N.S.F.		GRANTEE		N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
STAFFELDT, F. E.			0	0	0	0	\$2,014.00	\$2,014.00
SUB-TOTAL							<u>\$2,014.00</u>	<u>\$2,014.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
E. SECRETARIAL-CLERICAL							\$1,000.00	\$0.00
(1/4 TIME)								
TOTAL SALARIES AND WAGES							<u>\$3,014.00</u>	<u>\$2,014.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$307.00	\$255.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$3,321.00</u>	<u>\$2,269.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
MISCELLANEOUS OFFICE SUPPLIES							\$250.00	\$0.00
SUB-TOTAL							<u>\$250.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$3,571.00</u>	<u>\$2,269.00</u>
K. INDIRECT COSTS 41.00% OF A							\$1,235.00	\$825.00
L. TOTAL COSTS (J PLUS K)							<u><u>\$4,806.00</u></u>	<u><u>\$3,094.00</u></u>

UTAH STATE UNIVERSITY

PROCESS STUDIES -- THE ROLE OF ALGAE IN CRUST FORMATION AND NITROGEN
CYCLING IN DESERT SOILS
PROPOSAL 5.5.2

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
LYNN, RAYMOND I.	0	0	0	0	0	0	\$0.00	\$0.00
SUB-TOTAL							\$0.00	\$0.00
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
2 RESEARCH ASSISTANTS							\$6,200.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS PART-TIME							\$830.00	\$0.00
TOTAL SALARIES AND WAGES							\$7,030.00	\$0.00
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$421.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							\$7,451.00	\$0.00
D. PERMANENT EQUIPMENT								
MISCOPELE WITH ATTACHMENTS 1200							\$1,200.00	\$0.00
SUB-TOTAL							\$1,200.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
GLASS-WARE, COLLECTION BAGS, C14 ISOTOPES, MEDIA ETC							\$1,500.00	\$0.00
SUB-TOTAL							\$1,500.00	\$0.00
F. TRAVEL								
1. DOMESTIC								
12 TRIP(S) OF 200 MILES @ \$0.10/MILE CURLEW VALLEY							\$240.00	\$0.00
7 TRIP(S) @ \$250.00/TRIP JORNADA, TUCSON, ROCK VALLEY							\$1,750.00	\$0.00
SUB-TOTAL							\$1,990.00	\$0.00
I. OTHER COSTS								
1. CONSULTANTS								
ROY CAMERON 14 DAYS @ 100/DAY							\$1,400.00	\$0.00
SUB-TOTAL							\$1,400.00	\$0.00
3. NON-CATEGORIZED ITEMS								
RENTALS ON CARBON ANALYZER							\$1,000.00	\$0.00
RENTAL ON ENVIRONMENTAL GROWTH CHAMBERS							\$200.00	\$0.00
SOILS ANALYSIS FOR CONSULTANTS							\$1,600.00	\$0.00
SUB-TOTAL							\$2,800.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							\$16,341.00	\$0.00
K. INDIRECT COSTS 60.00% OF A							\$4,218.00	\$0.00
L. TOTAL COSTS (J PLUS K)							\$20,559.00	\$0.00

UTAH STATE UNIVERSITY

PROJECT STUDIES -- NITROGEN IN ARID WESTERN SOILS II -- DENITRIFICATION
 AND NITROGEN DYNAMICS IN STANDS DOMINATED BY SOME MAJOR COLD DESERT
 SHRUBS
 PROPOSAL 5.5.5

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
SKUJINS, JOHN J.	0	0	0	0	0	20	\$1,600.00	\$1,600.00
WEST, N. F.	0	0	0	0	0	20	\$1,600.00	\$1,600.00
SUB-TOTAL							<u>\$3,200.00</u>	<u>\$3,200.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
PART-TIME HELP							\$1,000.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER								
TECHNICIAN PART-TIME							\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$5,200.00</u>	<u>\$3,200.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$472.00	\$352.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$5,672.00</u>	<u>\$3,552.00</u>
D. PERMANENT EQUIPMENT								
UV SPECTROPHOTOMETER							\$4,000.00	\$0.00
SUB-TOTAL							<u>\$4,000.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
N-15 COMPOUNDS							\$1,200.00	\$0.00
PLEXIGLASS CUVETTES							\$1,200.00	\$0.00
SUB-TOTAL							<u>\$2,400.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
20 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$400.00	\$0.00
CURLEW VALLEY								
SUB-TOTAL							<u>\$400.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$12,472.00</u>	<u>\$3,552.00</u>
K. INDIRECT COSTS 60.00% OF A							\$3,120.00	\$1,920.00
L. TOTAL COSTS (J PLUS K)							<u>\$15,592.00</u>	<u>\$5,472.00</u>

UNIVERSITY OF NEVADA, D.R.I.

PROCESS STUDY - STUDIES IN THE DECOMPOSITION AND MINERALIZATION IN AN
ARTEMISIA TRIDENTATA COMMUNITY IN NORTHERN NEVADA
PROPOSAL 5.5.6

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
COMANOR, PETER L.	0	0	0	0	0	0	\$0.00	\$0.00
PRUSSO, DON C.	0	0	0	0	0	0	\$0.00	\$0.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$3,500.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$3,500.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 07.00% OF A							\$245.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$3,745.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
MISCELLANEOUS, GLASSWARE, CHEMICAL ETC.							\$150.00	\$0.00
SUB-TOTAL							<u>\$150.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
20 TRIP(S) OF 100 MILES @ \$0.10/MILE							\$200.00	\$0.00
LOCAL FIELD SITES								
SUB-TOTAL							<u>\$200.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$4,095.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 45.44% OF C							\$1,701.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$5,796.00</u>	<u>\$0.00</u>

UTAH STATE UNIVERSITY

PROCESS STUDIES - NITROGEN AND CARBON FLUX IN A SOIL-VEGETATION COMPLEX
 IN THE DESERT BIOME
 PROPOSAL 5-2.7

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
FLETCHER, JOEL E.	0	0	0	0	0	10	\$0.00	\$1,800.00
PORCELLA, D. B.	0	0	0	0	0	10	\$0.00	\$1,800.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$3,600.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$6,600.00	\$0.00
2 RESEARCH ASSISTANTS								
D. PRE-BACCALAUREATE STUDENTS							\$900.00	\$0.00
UNDERGRADUATE ASST. 1/4 TIME								
TOTAL SALARIES AND WAGES							<u>\$7,500.00</u>	<u>\$3,600.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$450.00	\$396.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$7,950.00</u>	<u>\$3,996.00</u>
F. EXPENDABLE EQUIPMENT AND SUPPLIES								
GLASSWARE, CHEMICALS, PLOT MARKERS AND COLLECTORS,							\$1,500.00	\$0.00
SUB-TOTAL							<u>\$1,500.00</u>	<u>\$0.00</u>
E. TRAVEL								
1. DOMESTIC								
50 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$1,000.00	\$0.00
CURLW VALLEY							<u>\$1,000.00</u>	<u>\$0.00</u>
SUB-TOTAL							<u>\$1,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$10,450.00</u>	<u>\$3,996.00</u>
K. INDIRECT COSTS 60.00% OF A							\$4,500.00	\$2,160.00
L. TOTAL COSTS (J PLUS K)							<u>\$14,950.00</u>	<u>\$6,156.00</u>

UTAH STATE UNIVERSITY

ABIOTIC PROCESS STUDY COORDINATOR

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
HANKS, ROBERT J.	20	0	0	10	0	0	\$3,820.00	\$1,910.00
SUB-TOTAL							<u>\$3,820.00</u>	<u>\$1,910.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
E. SECRETARIAL-CLERICAL								
1 SECRETARY (25%)							\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$4,820.00</u>	<u>\$1,910.00</u>
B. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A							\$480.00	\$210.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$5,300.00</u>	<u>\$2,120.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
OFFICE SUPPLIES							\$250.00	\$0.00
SUB-TOTAL							<u>\$250.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$5,550.00</u>	<u>\$2,120.00</u>
K. INDIRECT COSTS 60.00% OF A							\$2,892.00	\$1,146.00
L. TOTAL COSTS (J PLUS K)							<u>\$8,442.00</u>	<u>\$3,266.00</u>

UTAH STATE UNIVERSITY

PROCESS STUDIES - PREDICTION OF PLANT, SOIL, AND AIR TEMPERATURE ON
A MICROSCALE IN THE DESERT
PROPOSAL 5.6.2

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
DIRMHIRN, INGE	0	0	0	0	0	15	\$0.00	\$1,980.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$1,980.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
F. TECHNICAL, SHOP, AND OTHER							\$3,600.00	\$0.00
ELECTRONICS ENGINEER							\$2,120.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$5,720.00</u>	<u>\$1,980.00</u>
B. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A							\$343.00	\$217.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$6,063.00</u>	<u>\$2,197.00</u>
D. PERMANENT EQUIPMENT								
SUB-TOTAL							<u>\$2,520.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							<u>\$900.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
22 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$440.00	\$0.00
CURLEW VALLEY								
3 TRIP(S) @ \$230.00/TRIP							\$690.00	\$0.00
TUCSON, SILVER BELL								
SUB-TOTAL							<u>\$1,130.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$10,613.00</u>	<u>\$2,197.00</u>
K. INDIRECT COSTS 60.00% OF A							\$3,432.00	\$1,188.00
L. TOTAL COSTS (J PLUS K)							<u><u>\$14,045.00</u></u>	<u><u>\$3,385.00</u></u>

UNIVERSITY OF ARIZONA

PROCESS STUDY - PLANT GROWTH AND WATER TRANSFER INTERACTIVE PROCESSES
UNDER DESERT CONDITIONS
PROPOSAL 5-6-74

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
QASHU, H. K.	0	15	0	0	0	10	\$2,000.00	\$1,000.00
SUB-TOTAL							<u>\$2,000.00</u>	<u>\$1,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
2							\$10,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$12,000.00</u>	<u>\$1,000.00</u>
B. FRINGE BENEFITS 07.00% OF A1 ,A2A,A2B AND 01.00% OF REMAINDER OF A							\$240.00	\$70.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$12,240.00</u>	<u>\$1,070.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
ELECTRONIC SUPPLIES AND OPERATIONS							\$1,000.00	\$0.00
SUB-TOTAL							<u>\$1,000.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
100 TRIP(S) OF 60 MILES @ \$0.10/MILE							\$600.00	\$0.00
SILVER BELL								
SUB-TOTAL							<u>\$600.00</u>	<u>\$0.00</u>
I. OTHER COSTS								
3. NON-CATEGORIZED ITEMS								
TRUCK RENTAL TO MOVE INSTRUMENT VAN							\$80.00	\$0.00
SUB-TOTAL							<u>\$80.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$13,920.00</u>	<u>\$1,070.00</u>
K. INDIRECT COSTS 44.95% OF A							\$5,394.00	\$449.00
L. TOTAL COSTS (J PLUS K)							<u>\$19,314.00</u>	<u>\$1,519.00</u>

WASHINGTON STATE UNIVERSITY

PROCESS STUDIES -- EFFECT OF SOIL WATER POTENTIAL ON SOIL MOISTURE
 ABSORPTION, TRANSPIRATION RATE, PLANT WATER POTENTIAL, AND GROWTH FOR
 ARTEMISIA TRIDENTATA
 PROPOSAL 5-6-7

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
CAMPBELL, C.	0	0	0	10	0	\$0.00	\$1,214.00	
HARRIS	0	0	0	5	0	\$0.00	\$867.00	
SUB-TOTAL						<u>\$0.00</u>	<u>\$2,081.00</u>	
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS						\$4,231.00	\$0.00	
TOTAL SALARIES AND WAGES						<u>\$4,231.00</u>	<u>\$2,081.00</u>	
B. FRINGE BENEFITS 06.00% OF A						\$253.00	\$124.00	
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)						<u>\$4,484.00</u>	<u>\$2,205.00</u>	
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
NEUTRON METER TUBES AND COMPONENTS FOR TRANSPIROMETER						\$100.00	\$0.00	
SUB-TOTAL						<u>\$100.00</u>	<u>\$0.00</u>	
F. TRAVEL								
1. DOMESTIC								
50 TRIP(S) OF 170 MILES @ \$0.07/MILE						\$595.00	\$0.00	
EASTERN WASHINGTON STATE AND LOCAL								
SUB-TOTAL						<u>\$595.00</u>	<u>\$0.00</u>	
J. TOTAL DIRECT COSTS (C THROUGH I)						<u>\$5,179.00</u>	<u>\$2,205.00</u>	
K. INDIRECT COSTS 43.54% OF A						\$1,842.00	\$906.00	
L. TOTAL COSTS (J PLUS K)						<u>\$7,021.00</u>	<u>\$3,111.00</u>	

UNIVERSITY OF CALIFORNIA, RIVERSIDE

PROCESS STUDIES - EVALUATION OF CRITICAL SOIL PROPERTIES NEEDED TO
PREDICT SOIL WATER FLOW UNDER DESERT CONDITIONS
PROPOSAL 5.6.8

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
HATCH FEDERAL EMPLOYEE	0	0	0	0	0	0	\$0.00	\$0.00
STOLZY, L. H.	0	0	0	0	0	0	\$0.00	\$1,038.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$1,038.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$4,969.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$4,969.00</u>	<u>\$1,038.00</u>
B. FRINGE BENEFITS 13.00% OF A1 ,A2B AND 00.00% OF REMAINDER OF A							\$0.00	\$134.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$4,969.00</u>	<u>\$1,172.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							\$3,000.00	\$0.00
							<u>\$3,000.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
17 TRIP(S) @ \$200.00/TRIP							\$3,400.00	\$0.00
JORNADA								
17 TRIP(S) @ \$56.00/TRIP							\$952.00	\$0.00
ROCK VALLEY								
SUB-TOTAL							<u>\$4,352.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$12,321.00</u>	<u>\$1,172.00</u>
K. INDIRECT COSTS 47.00% OF A							\$2,335.00	\$487.00
L. TOTAL COSTS (J PLUS K)							<u>\$14,656.00</u>	<u>\$1,659.00</u>

UTAH STATE UNIVERSITY

PROCESS STUDIES - SOIL AS A FACTOR IN MODELLING THE PHOSPHORUS CYCLE IN THE DESERT ECOSYSTEM
PROPOSAL 5.6.9

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
JAMES, D. W.	0	0	0	0	10	0	\$0.00	\$2,000.00
JURINAK, JEROME J.	0	0	0	0	10	0	\$0.00	\$2,000.00
SOUTHARD, A. R.	0	0	0	0	10	0	\$0.00	\$1,500.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$5,500.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
B. NON-FACULTY PROFESSIONALS								
1 TECHNICIAN	120	0	0	0	0	0	\$8,600.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
2, PART-TIME							\$1,200.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$9,800.00</u>	<u>\$5,500.00</u>
R. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A							\$1,018.00	\$605.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$10,818.00</u>	<u>\$6,105.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$1,500.00	\$0.00
SUB-TOTAL							<u>\$1,500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
30 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$600.00	\$0.00
CURLFW VALLEY								
SUB-TOTAL							<u>\$600.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$12,918.00</u>	<u>\$6,105.00</u>
K. INDIRECT COSTS 60.00% OF A							\$5,880.00	\$3,300.00
L. TOTAL COSTS (J PLUS K)							<u>\$18,798.00</u>	<u>\$9,405.00</u>

IDAHO STATE UNIVERSITY

AQUATIC PROCESS STUDY COORDINATOR

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
MINSHALL, G. WAYNE (25%)	0	15	5	0	10	0	\$2,674.00	\$1,337.00
SUB-TOTAL							<u>\$2,674.00</u>	<u>\$1,337.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
E. SECRETARIAL-CLERICAL								
1 SECRETARY							\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$3,674.00</u>	<u>\$1,337.00</u>
B. FRINGE BENEFITS 14.00% OF A							\$514.00	\$187.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$4,188.00</u>	<u>\$1,524.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
OFFICE SUPPLIES							\$250.00	\$0.00
SUB-TOTAL							<u>\$250.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$4,438.00</u>	<u>\$1,524.00</u>
K. INDIRECT COSTS 43.90% OF A							\$1,612.00	\$586.00
L. TOTAL COSTS (J PLUS K)							<u>\$6,050.00</u>	<u>\$2,110.00</u>

UTAH STATE UNIVERSITY

PROCESS STUDIES -- TIMING, YIELD, AND SELECTED WATER QUALITY
 CHARACTERISTICS OF OVERLAND FLOW ABOVE DEEP-CREEK VALIDATION STATION
 NO. 1 AS A FUNCTION OF LAND USE IN UPPER REACHES OF THE WATERSHED.
 PROPOSAL 2,7,2

	1/10 MAN-MONTHS				N.S.F.		GRANTEE	
	N.S.F.	GRANTEE	CAL	ACAD	SUM	CAL	ACAD	SUM
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
COLTHARP, GEORGE	10	0	0	0	5	0	\$1,400.00	\$675.00
GIFFORD, GERALD F. PROJECT LEADER	10	0	0	0	5	0	\$1,400.00	\$675.00
HART, GEORGE	10	0	0	0	5	0	\$1,400.00	\$675.00
SUB-TOTAL							<u>\$4,200.00</u>	<u>\$2,025.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
D. PRE-BACCALAUREATE STUDENTS								
PART-TIME							\$1,925.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$6,125.00</u>	<u>\$2,025.00</u>
B. FRINGE BENEFITS 11.00% OF A1, A2B AND 06.00% OF REMAINDER OF A							\$577.00	\$222.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$6,702.00</u>	<u>\$2,247.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
NONRECORDING RAINGAGES							\$360.00	\$0.00
OFFICE AND FIELD SUPPLIES							\$350.00	\$0.00
U-59 SEDIMENT SAMPLERS							\$750.00	\$0.00
SUB-TOTAL							<u>\$1,460.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
70 TRIP(S) OF 200 MILES @ \$0.10/MILE							\$1,400.00	\$0.00
CURLEW VALLEY								
SUB-TOTAL							<u>\$1,400.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$9,562.00</u>	<u>\$2,247.00</u>
K. INDIRECT COSTS 60.00% OF A							\$3,675.00	\$1,215.00
L. TOTAL COSTS (J PLUS K)							<u>\$13,237.00</u>	<u>\$3,462.00</u>

IDAHO STATE UNIVERSITY

PROCESS STUDIES -- INGESTION, ASSIMILATION AND GROWTH RATES OF IMPORTANT
 BENTHIC INVERTEBRATES FROM DEEP CREEK, CURLEW VALLEY
 PROPOSAL 5.7.3

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		GRANTEE					
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
MINSHALL, G. WAYNE PROJECT LEADER	0	5	0	0	0	10	\$700.00	\$630.00
SUB-TOTAL							<u>\$700.00</u>	<u>\$630.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
1 RESEARCH ASSISTANT							\$4,200.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$4,900.00</u>	<u>\$630.00</u>
B. FRINGE BENEFITS 14.00% OF A							\$686.00	\$88.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$5,586.00</u>	<u>\$718.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$800.00	\$0.00
SUB-TOTAL							<u>\$800.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$6,386.00</u>	<u>\$718.00</u>
K. INDIRECT COSTS 43.90% OF A							\$2,151.00	\$276.00
L. TOTAL COSTS (J PLUS K)							<u>\$8,537.00</u>	<u>\$994.00</u>

NEW MEXICO STATE UNIVERSITY

PROCESS STUDY - ANALYSIS OF THE ROLE AND INTERACTIONS OF MICROORGANISMS
ALGAE AND ANURAN TADPOLES IN AN EPHERMERAL LAKE
PROPOSAL 5.7.7

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. FACULTY ASSOCIATES								
CUNNINGHAM, G. L.	0	0	0	0	10	0	\$0.00	\$1,300.00
D'ARPIEN, ROBERT T.	0	0	10	0	10	0	\$1,666.00	\$1,666.00
WHITEFORD, W. G.	0	0	0	0	10	5	\$0.00	\$1,480.00
SUB-TOTAL							<u>\$1,666.00</u>	<u>\$4,446.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS								
3 GRADUATE ASST.							\$8,800.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS								
UNDERGRADUATE ASST.							\$2,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$12,466.00</u>	<u>\$4,446.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$773.00	\$564.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$13,239.00</u>	<u>\$5,010.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES								
SUB-TOTAL							<u>\$2,500.00</u>	<u>\$0.00</u>
F. TRAVEL								
1. DOMESTIC								
100 TRIP(S) OF 100 MILES @ \$0.10/MILE							\$1,000.00	\$0.00
JORNADA								
SUB-TOTAL							<u>\$1,000.00</u>	<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$16,739.00</u>	<u>\$5,010.00</u>
K. INDIRECT COSTS 41.00% OF A							\$5,111.00	\$1,822.00
L. TOTAL COSTS (J PLUS K)							<u>\$21,850.00</u>	<u>\$6,832.00</u>

UTAH STATE UNIVERSITY

ADDITIONAL PROCESS STUDIES, SOME BEING CONTINUATION OF THOSE FUNDED FOB 1972. OTHERS NEW BUDGETS AGREED DURING THAT YEAR.

	1/10 MAN-MONTHS				N.S.F.	GRANTEE
	N.S.F.		GRANTEE			
	CAL	ACAD	SUM	CAL	ACAD	SUM
I. OTHER COSTS						
2. CONTRACTS						
ABIOTIC				\$117,724.00		\$0.00
AQUATIC				\$50,326.00		\$0.00
INVERTEBRATES				\$153,539.00		\$0.00
MICROORGANISMS				\$138,297.00		\$0.00
PLANTS				\$245,184.00		\$0.00
VERTEBRATES				\$148,765.00		\$0.00
SUB-TOTAL				<u>\$854,035.00</u>		<u>\$0.00</u>
J. TOTAL DIRECT COSTS (C THROUGH I)				<u>\$854,035.00</u>		<u>\$0.00</u>
K. INDIRECT COSTS 60.00% OF A				\$0.00		\$0.00
L. TOTAL COSTS (J PLUS K)				<u>\$854,035.00</u>		<u>\$0.00</u>

ARIZONA STATE UNIVERSITY
 BUDGET SUMMARY

	1/10 MAN-MONTHS			GRANTEE			N.S.F.	GRANTEE
	N.S.F.		SUM	CAL ACAD		SUM		
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
2. OTHER PERSONNEL (NON-FACULTY)								
E. SECRETARIAL-CLERICAL							\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES.							<u>\$1,000.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 11.20% OF A1 ,A2A,A2B AND 01.00% OF REMAINDER OF A							\$10.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$1,010.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$250.00	\$0.00
I. OTHER COSTS								
1. CONSULTANTS							\$3,000.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$4,260.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 55.60% OF A							\$556.00	\$0.00
L. TOTAL COSTS (J PLUS K).							<u><u>\$4,816.00</u></u>	<u><u>\$0.00</u></u>

NORTHERN ARIZONA UNIVERSITY

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 1 FACULTY ASSOCIATES	0	0	10	0	10	0	\$1,650.00	\$1,650.00
SUB-TOTAL							<u>\$1,650.00</u>	<u>\$1,650.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$4,800.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$1,500.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$7,950.00</u>	<u>\$1,650.00</u>
B. FRINGE BENEFITS 12.00% OF A							\$954.00	\$198.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$8,904.00</u>	<u>\$1,848.00</u>
F. TRAVEL								
1. DOMESTIC							\$1,547.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$10,971.00</u>	<u>\$1,848.00</u>
K. INDIRECT COSTS 34.27% OF C							\$3,051.00	\$633.00
L. TOTAL COSTS (J PLUS K)							<u>\$14,022.00</u>	<u>\$2,481.00</u>

UNIVERSITY OF ARIZONA

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 12 FACULTY ASSOCIATES	17	85	0	16	110	10	\$12,266.00	\$18,033.00
SUB-TOTAL							<u>\$12,266.00</u>	<u>\$18,033.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
B. 1 NON-FACULTY PROFESSIONALS	0	0	0	0	0	0	\$16,000.00	\$0.00
C. GRADUATE STUDENTS							\$37,100.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$1,400.00	\$0.00
E. SECRETARIAL-CLERICAL							\$3,500.00	\$1,500.00
TOTAL SALARIES AND WAGES							<u>\$70,266.00</u>	<u>\$19,533.00</u>
B. FRINGE BENEFITS 97.00% OF A1, A2A, A2B AND 61.00% OF REMAINDER OF A							\$2,398.00	\$1,276.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$72,664.00</u>	<u>\$20,809.00</u>
D. PERMANENT EQUIPMENT							\$1,100.00	\$0.00
F. EXPENDABLE EQUIPMENT AND SUPPLIES							\$4,200.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$7,616.00	\$0.00
I. OTHER COSTS								
2. CONTRACTS							\$3,000.00	\$0.00
3. NON-CATEGORIZED ITEMS							\$1,300.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$89,880.00</u>	<u>\$20,809.00</u>
K. INDIRECT COSTS 44.95% OF A							\$31,582.00	\$8,777.00
L. TOTAL COSTS (J PLUS K)							<u><u>\$121,462.00</u></u>	<u><u>\$29,586.00</u></u>

CALIFORNIA STATE COLLEGE AT LONG BEACH

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 1 FACULTY ASSOCIATES	0	20	0	0	0	20	\$2,300.00	\$2,000.00
SUB-TOTAL							<u>\$2,300.00</u>	<u>\$2,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
B. 1 NON-FACULTY PROFESSIONALS	0	0	0	0	0	0	\$8,000.00	\$1,500.00
TOTAL SALARIES AND WAGES							<u>\$10,300.00</u>	<u>\$3,500.00</u>
B. FRINGE BENEFITS 10.30% OF A1 ,A2B AND 00.00% OF REMAINDER OF A							\$1,060.00	\$360.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$11,360.00</u>	<u>\$3,860.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$500.00	\$300.00
F. TRAVEL								
1. DOMESTIC							\$1,396.00	\$180.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$13,481.00</u>	<u>\$4,340.00</u>
K. INDIRECT COSTS 24.53% OF J-D							\$3,306.00	\$1,064.00
L. TOTAL COSTS (J PLUS K)							<u>\$16,787.00</u>	<u>\$5,404.00</u>

UNIVERSITY OF CALIFORNIA, LOS ANGELES

BUDGET SUMMARY

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 2 FACULTY ASSOCIATES	0	60	0	0	0	0	\$9,633.00	\$0.00
SUB-TOTAL							<u>\$9,633.00</u>	<u>\$0.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
B. 3 NON-FACULTY PROFESSIONALS	180	0	0	0	0	0	\$10,944.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$3,500.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$24,077.00</u>	<u>\$0.00</u>
B. FRINGE BENEFITS 13.00% OF A1, A2B AND 10.00% OF REMAINDER OF A							\$3,025.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$27,102.00</u>	<u>\$0.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$2,000.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$4,419.00	\$0.00
I. OTHER COSTS								
2. CONTRACTS							\$5,000.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$40,021.00</u>	<u>\$0.00</u>
K. INDIRECT COSTS 47.00% OF A							\$8,201.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$48,222.00</u>	<u>\$0.00</u>

UNIVERSITY OF CALIFORNIA, RIVERSIDE

BUDGET SUMMARY

	1/10 MAN-MONTHS			GRANTEE			N.S.F.	GRANTEE
	N.S.F. CAL ACAD	SUM	CAL ACAD	SUM	CAL ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 7 FACULTY ASSOCIATES	0	0	50	0	55	10	\$5,968.00	\$10,017.00
SUB-TOTAL							<u>\$5,968.00</u>	<u>\$10,017.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. 1 RESEARCH ASSOCIATES-POSTDOCTORAL	60	0	0	0	0	0	\$6,380.00	\$0.00
C. GRADUATE STUDENTS							\$12,519.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$3,900.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$28,767.00</u>	<u>\$10,017.00</u>
B. FRINGE BENEFITS 13.00% OF A1, A2B AND 00.00% OF REMAINDER OF A							\$775.00	\$1,301.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$29,542.00</u>	<u>\$11,318.00</u>
D. PERMANENT EQUIPMENT							\$1,800.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$5,410.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$11,932.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$49,284.00</u>	<u>\$11,318.00</u>
K. INDIRECT COSTS 47.00% OF A							\$10,995.00	\$4,411.00
L. TOTAL COSTS (J PLUS K)							<u>\$60,279.00</u>	<u>\$15,729.00</u>

UNIVERSITY OF SOUTHERN CALIFORNIA

BUDGET SUMMARY

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 2 FACULTY ASSOCIATES	0	10	14	0	17	0	\$4,426.00	\$3,549.00
SUB-TOTAL							<u>\$4,426.00</u>	<u>\$3,549.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$1,600.00	\$0.00
E. SECRETARIAL-CLERICAL							\$1,000.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$1,101.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$8,127.00</u>	<u>\$3,549.00</u>
B. FRINGE BENEFITS 07.00% OF A							\$568.00	\$248.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$8,695.00</u>	<u>\$3,797.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$450.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$500.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$9,645.00</u>	<u>\$3,797.00</u>
K. INDIRECT COSTS 44.00% OF A							\$3,575.00	\$1,561.00
L. TOTAL COSTS (J PLUS K)							<u>\$13,220.00</u>	<u>\$5,358.00</u>

IDAHO STATE UNIVERSITY

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 4 FACULTY ASSOCIATES	0	45	5	0	10	50	\$6,174.00	\$4,917.00
SUB-TOTAL							<u>\$6,174.00</u>	<u>\$4,917.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$21,400.00	\$0.00
E. SECRETARIAL-CLERICAL							\$1,500.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$5,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$34,074.00</u>	<u>\$4,917.00</u>
B. FRINGE BENEFITS 14.00% OF A							\$4,770.00	\$688.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$38,844.00</u>	<u>\$5,605.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$2,650.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$1,000.00	\$0.00
I. OTHER COSTS								
2. CONTRACTS							\$2,000.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$44,894.00</u>	<u>\$5,605.00</u>
K. INDIRECT COSTS 43.90% OF A							\$14,957.00	\$2,157.00
L. TOTAL COSTS (J PLUS K)							<u>\$59,851.00</u>	<u>\$7,762.00</u>

UNIVERSITY OF NEVADA, D.R.I.

BUDGET SUMMARY

	1/10 MAN-MONTHS								
	N.S.F.			GRANTEE			N.S.F.	GRANTEE	
	CAL	ACAD	SUM	CAL	ACAD	SUM			
A. SALARIES AND WAGES	-----								
2. OTHER PERSONNEL (NON-FACULTY)									
C. GRADUATE STUDENTS							\$3,500.00	\$0.00	
TOTAL SALARIES AND WAGES.							<u>\$3,500.00</u>	<u>\$0.00</u>	
B. FRINGE BENEFITS 07.00% OF A							\$245.00	\$0.00	
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B).							<u>\$3,745.00</u>	<u>\$0.00</u>	
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$150.00	\$0.00	
F. TRAVEL									
1. DOMESTIC							\$200.00	\$0.00	
J. TOTAL DIRECT COSTS (C THROUGH I).							<u>\$4,095.00</u>	<u>\$0.00</u>	
K. INDIRECT COSTS 45.44% OF C							\$1,701.00	\$0.00	
L. TOTAL COSTS (J PLUS K).							<u>\$5,796.00</u>	<u>\$0.00</u>	

UNIVERSITY OF NEVADA AG ESP STA

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 1 FACULTY ASSOCIATES	0	0	0	0	0	10	\$0.00	\$2,000.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$2,000.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. 1 RESEARCH ASSOCIATES-POSTDOCTORAL	90	0	0	0	0	0	\$9,800.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$1,000.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$10,800.00</u>	<u>\$2,000.00</u>
B. FRINGE BENEFITS 05.20% OF A							\$561.00	\$104.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$11,361.00</u>	<u>\$2,104.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$3,000.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$2,400.00	\$0.00
I. OTHER COSTS								
3. NON-CATEGORIZED ITEMS							\$3,100.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$19,861.00</u>	<u>\$2,104.00</u>
K. INDIRECT COSTS 04.00% OF J-D							\$417.00	\$0.00
L. TOTAL COSTS (J PLUS K)							<u>\$20,278.00</u>	<u>\$2,104.00</u>

NEW MEXICO STATE UNIVERSITY

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 9 FACULTY ASSOCIATES	0	0	80	0	30	5	\$15,690.00	\$6,460.00
SUB-TOTAL							<u>\$15,690.00</u>	<u>\$6,460.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. 1 RESEARCH ASSOCIATES-POSTDOCTORAL	120	0	0	0	0	0	\$9,000.00	\$0.00
C. GRADUATE STUDENTS							\$31,450.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$6,000.00	\$0.00
E. SECRETARIAL-CLERICAL							\$4,600.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$66,740.00</u>	<u>\$6,460.00</u>
B. FRINGE BENEFITS 12.70% OF A1 AND 05.20% OF REMAINDER OF A							\$4,646.00	\$819.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$71,386.00</u>	<u>\$7,279.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$5,250.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$3,500.00	\$0.00
I. OTHER COSTS								
1. CONSULTANTS							\$1,000.00	\$0.00
2. CONTRACTS							\$3,000.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$84,136.00</u>	<u>\$7,279.00</u>
K. INDIRECT COSTS 41.00% OF A							\$27,362.00	\$2,647.00
L. TOTAL COSTS (J PLUS K)							<u>\$111,498.00</u>	<u>\$9,926.00</u>

BRIGHAM YOUNG UNIVERSITY

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.		SUM	GRANTEE		SUM		
	CAL	ACAD		CAL	ACAD			
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 2 FACULTY ASSOCIATES	0	10	40	0	20	0	\$6,778.00	\$3,390.00
SUB-TOTAL							<u>\$6,778.00</u>	<u>\$3,390.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$3,700.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$200.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$10,678.00</u>	<u>\$3,390.00</u>
B. FRINGE BENEFITS 00.00% OF A							\$0.00	\$0.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$10,678.00</u>	<u>\$3,390.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$567.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$998.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$12,243.00</u>	<u>\$3,390.00</u>
K. INDIRECT COSTS 40.00% OF A							\$4,271.00	\$1,356.00
L. TOTAL COSTS (J PLUS K)							<u>\$16,514.00</u>	<u>\$4,746.00</u>

UTAH STATE UNIVERSITY

BUDGET SUMMARY

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
A. 3 (CO)PRINCIPAL INVESTIGATOR(S)	60	0	0	30	0	0	\$14,630.00	\$7,320.00
B. 30 FACULTY ASSOCIATES	430	120	20	30	95	95	\$97,373.00	\$30,565.00
SUB-TOTAL							<u>\$112,003.00</u>	<u>\$37,885.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. 5 RESEARCH ASSOCIATES-POSTDOCTORAL	540	0	0	0	0	0	\$61,500.00	\$0.00
B. 5 NON-FACULTY PROFESSIONALS	500	0	0	10	0	0	\$42,770.00	\$1,000.00
C. GRADUATE STUDENTS							\$53,000.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$19,455.00	\$0.00
E. SECRETARIAL-CLERICAL							\$31,800.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$18,120.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$338,648.00</u>	<u>\$38,885.00</u>
B. FRINGE BENEFITS 11.00% OF A1 ,A2B AND 06.00% OF REMAINDER OF A							\$28,055.00	\$4,275.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$366,703.00</u>	<u>\$43,160.00</u>
D. PERMANENT EQUIPMENT							\$7,720.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$37,730.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$108,895.00	\$0.00
2. INTERNATIONAL							\$15,000.00	\$0.00
G. PUBLICATIONS COSTS							\$12,000.00	\$0.00
H. COMPUTER COSTS							\$105,000.00	\$0.00
I. OTHER COSTS								
1. CONSULTANTS							\$26,400.00	\$0.00
2. CONTRACTS							\$933,035.00	\$0.00
3. NON-CATEGORIZED ITEMS							\$25,838.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$1,638,321.00</u>	<u>\$43,160.00</u>
K. INDIRECT COSTS 60.00% OF A							\$203,187.00	\$23,331.00
L. TOTAL COSTS (J PLUS K)							<u>\$1,841,508.00</u>	<u>\$66,491.00</u>

WASHINGTON STATE UNIVERSITY

BUDGET SUMMARY

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
B. 2 FACULTY ASSOCIATES	0	0	0	0	15	0	\$0.00	\$2,081.00
SUB-TOTAL							<u>\$0.00</u>	<u>\$2,081.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
C. GRADUATE STUDENTS							\$4,231.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$4,231.00</u>	<u>\$2,081.00</u>
B. FRINGE BENEFITS 06.00% OF A							\$253.00	\$124.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$4,484.00</u>	<u>\$2,205.00</u>
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$100.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$595.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$5,179.00</u>	<u>\$2,205.00</u>
K. INDIRECT COSTS 43.54% OF A							\$1,842.00	\$906.00
L. TOTAL COSTS (J PLUS K)							<u>\$7,021.00</u>	<u>\$3,111.00</u>

U.S. PUBLIC HEALTH SERVICE

BUDGET SUMMARY

	1/10 MAN-MONTHS							
	N.S.F.			GRANTEE			N.S.F.	GRANTEE
	CAL	ACAD	SUM	CAL	ACAD	SUM		
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$435.00	\$300.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$435.00</u>	<u>\$300.00</u>
L. TOTAL COSTS (J PLUS K)							<u>\$435.00</u>	<u>\$300.00</u>

OVERALL

BUDGET SUMMARY

	1/10 MAN-MONTHS						N.S.F.	GRANTEE
	N.S.F.			GRANTEE				
	CAL	ACAD	SUM	CAL	ACAD	SUM		

A. SALARIES AND WAGES								
1. SENIOR PERSONNEL								
A. 3 (CO)PRINCIPAL INVESTIGATOR(S)	60	0	0	30	0	0	\$14,630.00	\$7,320.00
B. 30 FACULTY ASSOCIATES	430	120	20	30	75	95	\$97,373.00	\$30,565.00
SUB-TOTAL							<u>\$112,003.00</u>	<u>\$37,885.00</u>
2. OTHER PERSONNEL (NON-FACULTY)								
A. 5 RESEARCH ASSOCIATES-POSTDOCTORAL	540	0	0	0	0	0	\$61,500.00	\$0.00
B. 5 NON-FACULTY PROFESSIONALS	500	0	0	10	0	0	\$42,770.00	\$1,000.00
C. GRADUATE STUDENTS							\$53,000.00	\$0.00
D. PRE-BACCALAUREATE STUDENTS							\$19,455.00	\$0.00
E. SECRETARIAL-CLERICAL							\$31,800.00	\$0.00
F. TECHNICAL, SHOP, AND OTHER							\$18,120.00	\$0.00
TOTAL SALARIES AND WAGES							<u>\$338,648.00</u>	<u>\$38,885.00</u>
B. FRINGE BENEFITS							\$28,055.00	\$4,275.00
C. TOTAL SALARIES, WAGES, AND FRINGE BENEFITS (A+B)							<u>\$366,703.00</u>	<u>\$43,160.00</u>
D. PERMANENT EQUIPMENT							\$7,720.00	\$0.00
E. EXPENDABLE EQUIPMENT AND SUPPLIES							\$37,730.00	\$0.00
F. TRAVEL								
1. DOMESTIC							\$108,895.00	\$0.00
2. INTERNATIONAL							\$15,000.00	\$0.00
G. PUBLICATIONS COSTS							\$12,000.00	\$0.00
H. COMPUTER COSTS							\$105,000.00	\$0.00
I. OTHER COSTS								
1. CONSULTANTS							\$26,400.00	\$0.00
2. CONTRACTS							\$1,433,236.00	\$86,507.00
3. NON-CATEGORIZED ITEMS							\$25,838.00	\$0.00
J. TOTAL DIRECT COSTS (C THROUGH I)							<u>\$2,138,522.00</u>	<u>\$129,667.00</u>
K. INDIRECT COSTS							\$203,187.00	\$23,331.00
L. TOTAL COSTS (J PLUS K)							<u>\$2,341,709.00</u>	<u>\$152,998.00</u>
