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ABSTRACT

In an effort to obtain systematic information concerning environmentally-oriented instruction and research programs at state universities, the Council on Research Policy and Administration of the National Association of State Universities and Land Grant Colleges developed a questionnaire for this purpose. The objectives were to obtain information on (1) university organization for administration of environmental science academic programs, (2) instructional activities in environmental science areas, and (3) the nature and magnitude of interdisciplinary research programs currently operative. Responses from 85 out of 100 universities surveyed indicate that 62 have some sort of academic units established. Six listed a School of Environmental Science and seven listed a Department of Environmental Science. It was concluded most institutions apparently have developed interdisciplinary programs within their normal disciplinary school and department structure. The most frequently listed interdisciplinary research unit was Water Resources with 50 listings. Next most frequent was urban/regional planning (39), followed by air resources (29), marine resources (27), and environmental health (26). The largest units, based on the number of faculty and graduate students and dollar support, were Water Resources, Marine Resources, Urban and Regional Planning, and Environmental Health. Four tables tabulate the individual data. A sample questionnaire is not included. (BL)

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ED 082999

ENVIRONMENTAL EDUCATION AND RESEARCH PROGRAMS AT STATE UNIVERSITIES

Roy A. Young

In discussions in 1970 it became evident to members of the Council on Research Policy and Administration of the National Association of State Universities and Land Grant Colleges that little systematic information was available concerning environmentally oriented instruction and research programs at state universities.

Conversations with representatives of several federal agencies and the Planning Committee for the 1972 United Nations Conference on the Human Environment in Stockholm showed almost complete lack of awareness of the rather extensive research efforts in environmental science areas at a number of universities.

In an effort to obtain information on interdisciplinary environmental education and research programs at state universities, a committee[1] was appointed to develop a questionnaire to be circulated by mail and to organize the results of the survey for presentation to CRPA membership.

The objectives of the questionnaire were to obtain information on (1) university organization for administration of environmental science academic programs, (2) instructional activities in environmental science areas, and (3) the nature and magnitude of interdisciplinary research programs currently operative on campuses of state universities.

The questionnaire was addressed to Vice Presidents for Research, Deans for Research or other administrative officers responsible for research coordination and administration at state universities.

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[1] Fred N. Andrews, Vice President for Research and Dean of the Graduate School, Purdue University
Ralph W. Cummings, Administrative Dean for Research, North Carolina State University at Raleigh
John E. Nellor, Associate Vice President for Research Development, Michigan State University
Roy A. Young, Vice President for Research and Graduate Studies, Oregon State University

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Two surveys were made. The first survey was conducted in the Spring of 1971 and results were tabulated in early summer. Originally it was planned that these results would be summarized and distributed at the 1971 meeting of the Council on Research Policy and Administration. However, a review of results indicated a number of discrepancies in information supplied by several universities. We, therefore, decided not to distribute the results of the first questionnaire, but to attempt to improve the questionnaire and circulate the revised form to all state universities in the Spring of 1972.

In 1972 questionnaires were mailed to 100 universities and responses were obtained from 85. This report summarizes information obtained in the two surveys.

A number of universities indicated that the format of the questionnaire did not provide an opportunity for them to present a complete picture of the effort in environmental sciences on their individual campuses. Also, several institutions responded that, rather than setting up separate units for environmental science, both instructional and research efforts had been integrated into instructional and research efforts in disciplinary departments.

The information obtained from the questionnaires is tabulated in the following four tables. Because there are some inconsistencies in reports from institutions, respondents may wish to correct this draft before it is reproduced and distributed by NASULGC. Table 1 indicates whether or not institutions responded to the questionnaires in 1971 and 1972 and indicates whether or not academic units were established on the respondent's campuses.

Sixty-two of the 85 universities responding indicated that they have some sort of academic units established. Only six, however, listed a School of Environmental Science and only seven listed a Department of Environmental Science. Most institutions apparently have developed interdisciplinary programs within their normal disciplinary school and departmental structure.

Eight institutions that had no established academic units in 1971 reported a unit in 1972. Of the eight, only one was a School of Environmental Science. The others were institutes or programs.

Table 2 indicates the presence or absence of listed interdisciplinary research units on campuses of the responding institutions in 1971-72.

Table 3 presents a summary of the numbers of institutions with various interdisciplinary research units, information on numbers of faculty and graduate students, and dollar support for each different research unit in 1971.

Table 4 presents similar information for 1972.

The most frequently listed interdisciplinary research unit was Water Resources with 50 listings. Next most frequent was urban/regional planning (39), followed by air resources (29), marine resources (27) and environmental health (26).

The largest units based on faculty FTE and numbers of graduate students were Water Resources, Marine Resources, Urban and Regional Planning, and Environmental Health.

Many institutions are still in the process of attempting to determine the most suitable organizational structure to meet their needs for increased emphasis on instruction and research in different areas of the environmental sciences. It is hoped that the information from this survey will be useful to institutions still in the process of reviewing models for environmental science programs, we well as to other institutions, federal agencies, and foundations.

mep
11/7/72

Table 1. Responses of State Colleges and Universities to Questionnaire Regarding Environmental Science Academic Units Established in 1971 and 1972

Name of College or University	Responded to Questionnaire				No Academic Unit Established		School or College of Environmental Science		School or Department of Human Ecology		Department of Environmental Science		Environmental Science Institute		Environmental Science Center		Environmental Studies Center		Environmental Health Sciences Center		Environmental Studies Program	Institute of Ecology	Environmental Quality Center	Institute for Natural Resources	Any Other Academic Unit		Total Units Established by College or University	
	No 1971	No 1972	Yes 1971	Yes 1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1972	1972	1972	1972	1971	1972	1971	1972
Alabama A&M University		X																										
Auburn University			X	X	X	X																					0	0
University of Alabama	X			X		X																						0
University of Alaska	X			X																						X		1
Arizona State University			X	X									X			X											1	1
University of Arizona	X			X																						X		1
Arkansas A, M & N University		X																										
University of Arkansas			X	X		X																			X		1	0
U. of California-Berkeley		X	X		X																						0	
U. of California-Davis			X	X			X														X				X	X	2	2
U. of California-Santa Cruz			X	X													X				X					X	1	2
U. of California-Santa Barbara			X	X							X										X						1	1
U. of California-Los Angeles			X	X									X												X	X	2	1

f State Colleges and Universities to Questionnaire Regarding Environmental Science Academic
ablished in 1971 and 1972

versity	Responded to Questionnaire: No 1971	No 1972	Yes 1971	Yes 1972	No Academic Unit Established 1971	1972	School or College of Environmental Science 1971	1972	School or Department of Human Ecology 1971	1972	Department of Environmental Science 1971	1972	Environmental Science Institute 1971	1972	Environmental Science Center 1971	1972	Environmental Studies Center 1971	1972	Environmental Health Sciences Center 1971	1972	Environmental Studies Program 1972	Institute of Ecology 1972	Environmental Quality Center 1972	Institute for Natural Resources 1972	Any Other Academic Unit 1971	1972	Total Units Established by College or University 1971	1972	Name of Respondent (First Name - 1971, Second Name - 1972)
		X																											
			X	X	X	X																					0	0	Ben T. Lanham, Jr.
	X			X		X																						0	Roger Sayers
	X			X																					X			1	K. M. Rae
ty			X	X									X		X												1	1	H. B. Hunnicut
	X			X																					X			1	A. Richard Kassander
ersity		X																											
			X	X		X																		X			1	0	R. E. McDermott Robert E. Babcock
eley		X	X		X																						0		
			X	X			X														X			X	X		2	2	David L. Jacobson
Cruz			X	X													X				X				X		1	2	B. A. Shaine
Barbara			X	X						X											X						1	1	Roderick Nash
geles			X	X							X													X	X		2	1	Francis M. Gilbert Corrine Verhulst

Name of College or University	Responded to Questionnaire: No 1971	Responded to Questionnaire: No 1972	Yes 1971	Yes 1972	No Academic Unit Established 1971	No Academic Unit Established 1972	School or College of Environmental Science 1971	School or College of Environmental Science 1972	School or Department of Human Ecology 1971	School or Department of Human Ecology 1972	Department of Environmental Science 1971	Department of Environmental Science 1972	Environmental Science Institute 1971	Environmental Science Institute 1972	Environmental Science Center 1971	Environmental Science Center 1972	Environmental Studies Center 1971	Environmental Studies Center 1972	Environmental Health Sciences Center 1971	Environmental Health Sciences Center 1972	Environmental Studies Program 1972	Institute of Ecology 1972	Environmental Quality Center 1972	Institute for Natural Resources 1972	Any Other Academic Unit 1971	Any Other Academic Unit 1972	Total Units Established by College or University 1971	Total Units Established by College or University 1972
U. of California-Irvine			X	X							X														X	X	2	1
U. of California-Riverside			X	X			X	X																			1	1
U. of California-San Diego			X	X	X	X																					0	0
Colorado State University			X	X											X	X											1	1
University of Colorado	X			X		X																						0
Connecticut Ag. Exp. Sta.			X	X																					X	X	1	1
University of Connecticut			X	X		X	X																				1	0
Delaware State College	X	X																										
University of Delaware			X	X											X			X							X		2	1
Florida State University		X	X		X																							0
University of Florida			X	X																					X	X	1	1
Georgia Institute of Technology			X	X																				X	X		1	1
University of Georgia			X	X							X		X									X		X	X	X	1	5

versity	Responded to Questionnaire: No 1971	No 1972	Yes 1971	Yes 1972	No Academic Unit Established 1971	1972	School or College of Environmental Science 1971	1972	School or Department of Human Ecology 1971	1972	Department of Environmental Science 1971	1972	Environmental Science Institute 1971	1972	Environmental Science Center 1971	1972	Environmental Studies Center 1971	1972	Environmental Health Sciences Center 1971	1972	Environmental Studies Program 1972	Institute of Ecology 1972	Environmental Quality Center 1972	Institute for Natural Resources 1972	Any Other Academic Unit 1971	1972	Total Units Established by College or University 1971	1972	Name of Respondent (First Name - 1971, Second Name - 1972)
e			X	X							X														X	X	2	1	Roger W. Russell Carl Hartman
side			X	X			X	X																			1	1	Seymour Van Gundy
iego			X	X	X	X																					0	0	R. Pearce
ity			X	X											X	X											1	1	N. A. Evans
	X			X		X																						0	J. Russell Nelson
ta.			X	X																					X	X	1	1	Paul E. Waggoner
cut			X	X		X	X																				1	0	Hugh Clark
	X	X																											
			X	X											X			X							X		2	1	Olaf P. Bergelin
ty		X	X		X																							0	Robert M. Johnson
			X	X																					X	X	1	1	George K. Davis
chnology			X	X																				X	X		1	1	C. E. Kindsvater
			X	X							X		X									X		X	X	X	1	5	Robert C. Anderson

Name of College or University	Responded to Questionnaire 1971	Responded to Questionnaire 1972	1971	1972	No Academic Unit Established 1971	No Academic Unit Established 1972	School or College of Environmental Science 1971	School or College of Environmental Science 1972	School or Department of Human Ecology 1971	School or Department of Human Ecology 1972	Department of Environmental Science 1971	Department of Environmental Science 1972	Environmental Science Institute 1971	Environmental Science Institute 1972	Environmental Science Center 1971	Environmental Science Center 1972	Environmental Studies Center 1971	Environmental Studies Center 1972	Environmental Health Sciences Center 1971	Environmental Health Sciences Center 1972	Environmental Studies Program 1972	Institute of Ecology 1972	Environmental Quality Center 1972	Institute for Natural Resources 1972	Any Other Academic Unit 1971	Any Other Academic Unit 1972	Total Units Established by College or University 1971	Total Units Established by College or University 1972	
University of Hawaii			X	X																					X	X	1	1	J
University of Idaho			X	X	X	X																					0	0	P E
University of Illinois			X	X	X																X	X				X	0		R J
Indiana University			X	X			X	X																			1	1	L
Purdue University			X	X									X													X	1	1	F
Iowa State University			X	X	X																					X	0	1	D
University of Iowa			X	X	X	X																					0	0	J F
Kansas State University			X	X									X													X	1	1	R
University of Kansas			X	X										X					X						X	X	2	2	W
Kentucky State College			X	X	X	X																					0	0	C A
University of Kentucky	X			X		X																						0	W
Louisiana State University	X			X										X												X		2	J
Southern University	X			X		X																							S

versity	Responded to Questionnaire 1971 No	Responded to Questionnaire 1972 No	Responded to Questionnaire 1971 Yes	Responded to Questionnaire 1972 Yes	No Academic Unit Established 19.	No Academic Unit Established	School or College of Environmental Science 1971	School or College of Environmental Science 1972	School or Department of Human Ecology 1971	School or Department of Human Ecology 1972	Department of Environmental Science 1971	Department of Environmental Science 1972	Environmental Science Institute 1971	Environmental Science Institute 1972	Environmental Science Center 1971	Environmental Science Center 1972	Environmental Studies Center 1971	Environmental Studies Center 1972	Environmental Health Sciences Center 1971	Environmental Health Sciences Center 1972	Environmental Studies Program 1972	Institute of Ecology 1972	Environmental Quality Center 1972	Institute for Natural Resources 1972	Any Other Academic Unit 1971	Any Other Academic Unit 1972	Total Units Established by College or University 1971	Total Units Established by College or University 1972	Name of Respondent (First Name - 1971, Second Name - 1972)
			X	X																					X	X	1	1	Jerry M. Johnson
			X	X	X	X																					0	0	R. W. Stark Edgar Grahm
			X	X	X																X	X				X	0		Roger G. Clark John Pearson
			X	X			X	X																			1	1	Lynne L. Merritt
			X	X									X													X	1	1	F. N. Andrews
			X	X	X																					X	0	1	D. J. Zaffarano
			X	X	X	X																					0	0	John McBride Frank Horton
y			X	X									X													X	1	1	R. F. Kruh
			X	X										X					X						X	X	2	2	William Argersinger, Jr.
			X	X	X	X																					0	0	Carl M. Hill A. J. Richards
	X			X		X																						0	W. H. Dennem
sity	X			X										X												X		2	J. R. Walker
	X			X		X																						0	Sidney McNairy, Jr.

Name of College or University	Responded to Questionnaire				No Academic Unit Established		School or College of Environmental Science		School or Department of Human Ecology		Department of Environmental Science		Environmental Science Institute		Environmental Science Center		Environmental Studies Center		Environmental Health Sciences Center		Environmental Studies Program	Institute of Ecology	Environmental Quality Center	Institute for Natural Resources	Any Other Academic Unit		Total Units Established by College or University	
	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1972	1972	1972	1972	1971	1972	1971	1972
University of Maine			X	X													X	X									1	1
University of Maryland			X	X						X														X	X	X	1	3
University of Maryland, Eastern Shore		X																										
Massachusetts Institute of Tech.		X	X																						X		1	
University of Massachusetts			X	X							X														X	X	2	1
Wayne State University	X			X		X																						0
Michigan State University			X	X					X	X													X				1	2
University of Michigan			X	X																	X		X	X	X	X	1	4
University of Minnesota			X	X															X				X		X	X	2	2
Alcorn A&M University			X	X	X	X																					0	0
Mississippi State University			X	X									X	X			X									X	1	3
University of Mississippi			X	X	X	X																					0	0
University of Missouri			X	X					X	X		X				X			X				X		X		3	4

versity	Responded to Questionnaire 1971	Responded to Questionnaire 1972	1971	1972	No Academic Unit Established 1971	No Academic Unit Established 1972	School or College of Environmental Science 1971	School or College of Environmental Science 1972	School or Department of Human Ecology 1971	School or Department of Human Ecology 1972	Department of Environmental Science 1971	Department of Environmental Science 1972	Environmental Science Institute 1971	Environmental Science Institute 1972	Environmental Science Center 1971	Environmental Science Center 1972	Environmental Studies Center 1971	Environmental Studies Center 1972	Environmental Health Sciences Center 1971	Environmental Health Sciences Center 1972	Environmental Studies Program 1972	Institute of Ecology 1972	Environmental Quality Center 1972	Institute for Natural Resources 1972	Any Other Academic Unit 1971	Any Other Academic Unit 1972	Total Units Established by College or University 1971	Total Units Established by College or University 1972	Name of Respondent (First Name - 1971, Second Name - 1972)
			X	X													X	X									1	1	F. P. Eggert B. R. Poulton
			X	X						X														X	X	X	1	3	Michael Pelzar, Jr.
, Eastern Shore		X																											
e of Tech.		X	X																										
setts			X	X							X														X		1		Louis Menand III
	X			X		X																			X	X	2	1	Pat W. Camerino Ervin H. Zube
																												0	Ralph Kummler
ity			X	X					X	X													X				1	2	John E. Nellor
			X	X																	X		X	X		X	1	4	William C. Jolly
a			X	X															X				X		X	X	2	2	Richard Meyer Anne Wirt
			X	X	X	X																					0	0	Jesse Morris
ersity			X	X									X	X				X								X	1	3	J. C. McKee
ppi			X	X	X	X																					0	0	Joseph Sam
			X	X					X	X		X			X				X				X		X		3	4	Carl Marienfeld

Name of College or University	Responded to Questionnaire 1971	Responded to Questionnaire 1972	1971	1972	No Academic Unit Established 1971	No Academic Unit Established 1972	School or College of Environmental Science 1971	School or College of Environmental Science 1972	School or Department of Human Ecology 1971	School or Department of Human Ecology 1972	Department of Environmental Science 1971	Department of Environmental Science 1972	Environmental Science Institute 1971	Environmental Science Institute 1972	Environmental Science Center 1971	Environmental Science Center 1972	Environmental Studies Center 1971	Environmental Studies Center 1972	Environmental Studies Program 1972	Institute of Ecology 1972	Environmental Quality Center 1972	Institute for Natural Resources 1972	Any Other Academic Unit 1971	Any Other Academic Unit 1972	Total Units Established by College or University 1971	Total Units Established by College or University 1972	
Montana State University	X	X																									
University of Montana			X	X												X							X		1	1	Jo
University of Nebraska			X	X																		X	X	X	1	2	W Ja
University of Nevada	X			X		X																				0	T
University of New Hampshire			X	X																		X	X		1	1	Ro Jo
Rutgers University	X			X				X				X				X								X		4	Le
New Mexico State University			X	X	X																			X	0	1	W Jo
University of New Mexico	X	X																									
Cornell University			X	X	X	X																			0	0	W
North Carolina A&T State University			X	X	X	X																			0	0	Ho
North Carolina State University		X																									
University of North Carolina	X			X								X														1	Ge
North Dakota State University			X	X	X	X																			0	0	Ro

ersity	Responded to Questionnaire 1971	Responded to Questionnaire 1972	1971	1972	No Academic Unit Established 1971	No Academic Unit Established 1972	School or College of Environmental Science 1971	School or College of Environmental Science 1972	School or Department of Human Ecology 1971	School or Department of Human Ecology 1972	Department of Environmental Science 1971	Department of Environmental Science 1972	Environmental Science Institute 1971	Environmental Science Institute 1972	Environmental Science Center 1971	Environmental Science Center 1972	Environmental Studies Center 1971	Environmental Studies Center 1972	Environmental Health Sciences Center 1971	Environmental Health Sciences Center 1972	Environmental Studies Program 1972	Institute of Ecology 1972	Environmental Quality Center 1972	Institute for Natural Resources 1972	Any Other Academic Unit 1971	Any Other Academic Unit 1972	Total Units Established by College or University 1971	Total Units Established by College or University 1972	Name of Respondent First Name - 1971 Second Name - ~~1972~~
y	X	X																											
			X	X													X								X		1	1	John M. Stewart
			X	X																				X	X	X	1	2	W. P. Bruning James Drew
	X			X		X																						0	T. W. O'Brien
shire			X	X																				X	X		1	1	Robert N. Faiman John Hraba
	X			X				X				X						X								X		4	Leland Merrill, Jr.
rsity			X	X	X																					X	0	1	W. P. Stephens John Hernandez
o	X	X																											
			X	X	X	X																					0	0	W. K. Kennedy
te University			X	X	X	X																					0	0	Howard F. Robinson
iversity		X																											
olina	X			X							X																	1	George Holcomb
ersity			X	X	X	X																					0	0	Robert Sullivan

Name of College or University	Responded to Questionnaire: No 1971	No 1972	Yes 1971	Yes 1972	No Academic Unit 1971	Established 1972	School or College of Environmental Science 1971	1972	School or Department of Human Ecology 1971	1972	Department of Environmental Science 1971	1972	Environmental Science Institute 1971	1972	Environmental Science Center 1971	1972	Environmental Studies Center 1971	1972	Environmental Health Sciences Center 1971	1972	Environmental Studies Program 1972	Institute of Ecology 1972	Environmental Quality Center 1972	Institute for Natural Resources 1972	Any Other Academic Unit 1971	1972	Total Units Established by College or University 1971	1972
University of North Dakota			X	X																		X			X		1	1
Kent State University			X	X																					X	X	1	1
Miami University	X			X										X														1
Ohio State University			X	X																				X	X	X	1	2
Ohio University			X	X		X																			X		1	0
University of Oklahoma			X	X	X			X		X								X		X							0	4
Langston University		X																										
Oklahoma State University			X	X	X									X													0	1
Oregon State University			X	X															X	X	X				X	X	2	3
University of Oregon			X	X	X																X						0	1
Pennsylvania State University			X	X					X	X													X				1	2
University of Puerto Rico	X			X																						X		1
University of Rhode Island	X	X																										

versity	Responded to Questionnaire: No 1971	No 1972	Yes 1971	Yes 1972	No Academic Unit Established 1971	1972	School or College of Environmental Science 1971	1972	School or Department of Human Ecology 1971	1972	Department of Environmental Science 1971	1972	Environmental Science Institute 1971	1972	Environmental Science Center 1971	1972	Environmental Studies Center 1971	1972	Environmental Health Sciences Center 1971	1972	Environmental Studies Program 1972	Institute of Ecology 1972	Environmental Quality Center 1972	Institute for Natural Resources 1972	Any Other Academic Unit 1971	1972	Total Units Established by College or University 1971	1972	Name of Respondent (First Name - 1971, Second Name - 1972)
kota			X	X																		X			X		1	1	A. W. Johnson
			X	X																					X	X	1	1	Alan Coogan
	X			X									X															1	
			X	X																				X	X	X	1	2	William Gealy Jules B. LaPidus
			X	X		X																			X		1	0	N. S. Cohn
			X	X	X		X		X								X			X							0	4	Murlin Hodgell
		X																											
ity			X	X	X								X														0	1	Marvin T. Edmison
y			X	X															X	X	X				X	X	2	3	Roy A. Young
			X	X	X																X						0	1	R. M. Mazo Stanton A. Cook
versity			X	X					X	X													X				1	2	Richard Schein
ico	X			X																					X			1	Salvador Rodriguez
and	X	X																											

Name of College or University	Responded to Questionnaire				No Academic Unit Established		School or College of Environmental Science		School or Department of Human Ecology		Department of Environmental Science		Environmental Science Institute		Environmental Science Center		Environmental Studies Center		Environmental Health Sciences Center		Environmental Studies Program	Institute of Ecology	Environmental Quality Center	Institute for Natural Resources	Any Other Academic Unit		Total Units Established by College or University	
	No		Yes																									
	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1972	1972	1972	1972	1971	1972	1971	1972
Clemson University		X	X																						X		1	
South Carolina State College			X	X	X	X																					0	0
University of South Carolina			X	X	X																					X	0	1
South Dakota State University			X	X	X																X						0	1
University of South Dakota			X	X									X				X										1	1
Tennessee State University	X			X		X																						0
University of Tennessee			X	X																					X	X	1	1
Texas A&M University			X	X	X	X																					0	0
Prairie View A&M		X																										
Texas Technological University				X																						X		
University of Texas			X	X															X					X	X	X	1	3
Utah State University			X	X											X	X						X				X	1	3
University of Utah			X	X	X	X																					0	0

iversity	Responded to Questionnaire 1971 No	Responded to Questionnaire 1972 No	Responded to Questionnaire 1971 Yes	Responded to Questionnaire 1972 Yes	No Academic Unit Established 1971	No Academic Unit Established 1972	School or College of Environmental Science 1971	School or College of Environmental Science 1972	School or Department of Human Ecology 1971	School or Department of Human Ecology 1972	Department of Environmental Science 1971	Department of Environmental Science 1972	Environmental Science Institute 1971	Environmental Science Institute 1972	Environmental Science Center 1971	Environmental Science Center 1972	Environmental Studies Center 1971	Environmental Studies Center 1972	Environmental Health Sciences Center 1971	Environmental Health Sciences Center 1972	Environmental Studies Program 1972	Institute of Ecology 1972	Environmental Quality Center 1972	Institute for Natural Resources 1972	Any Other Academic Unit 1971	Any Other Academic Unit 1972	Total Units Established by College or University 1971	Total Units Established by College or University 1972	Name of Respondent (First Name - 1971, Second Name - 1972)
		X	X																						X		1		A. E. Schwartz
College			X	X	X	X																					0	0	R. L. Hurst
arolina			X	X	X																					X	0	1	Milton S. Baker
iversity			X	X	X																X						0	1	Paul Koepsell
akota			X	X								X						X									1	1	Webster Sill
rsity	X			X		X																						0	C. W. Sutherland
ee			X	X																					X	X	1	1	Hilton A. Smut W. A. Goodwin
			X	X	X	X																					0	0	A. D. Suttle, Jr. Robert Berg
		X																											
niversity				X																						X			Orlo E. Childs
			X	X															X					X	X	X	1	3	P. T. Flawn
			X	X									X	X								X				X	1	3	Wynne Thorne
			X	X	X	X																					0	0	W. Partridge

Name of College or University	Responded to Questionnaire: No 1971	Responded to Questionnaire: No 1972	Yes 1971	Yes 1972	No Academic Unit Established 1971	No Academic Unit Established 1972	School or College of Environmental Science 1971	School or College of Environmental Science 1972	School or Department of Human Ecology 1971	School or Department of Human Ecology 1972	Department of Environmental Science 1971	Department of Environmental Science 1972	Environmental Science Institute 1971	Environmental Science Institute 1972	Environmental Science Center 1971	Environmental Science Center 1972	Environmental Studies Center 1971	Environmental Studies Center 1972	Environmental Health Sciences Center 1971	Environmental Health Sciences Center 1972	Environmental Studies Program 1972	Institute of Ecology 1972	Environmental Quality Center 1972	Institute for Natural Resources 1972	Any Other Academic Unit 1971	Any Other Academic Unit 1972	Total Units Established by College or University 1971	Total Units Established by College or University 1972	
University of Vermont			X	X															X		X				X		2	1	W C
University of Virginia			X	X							X	X													X		2	1	D
Virginia Polytechnic Institute			X	X											X			X							X	X	2	2	K C
Virginia State College				X				X						X														2	N
Washington State University			X	X																	X				X		1	1	C
University of Washington			X	X																					X	X	1	1	R
West Virginia University			X	X	X	X																					0	0	Ch
U. of Wisconsin-Green Bay		-	X										X														1		
U. of Wisconsin-Kenosha	X	-																											
U. of Wisconsin-Madison	X	X																											
U. of Wisconsin-Milwaukee	X	-																											
University of Wyoming			X	X	X	X																					0	0	Ji
TOTALS	21	15	74	85	25	25	4	5	3	5	4	5	7	7	4	3	2	8	5	3	10	4	5	8	33	35	62	98	

iversity	Responded to Questionnaire: No 1971	No 1972	Yes 1971	Yes 1972	No Academic Unit Established 1971	1972	School or College of Environmental Science 1971	1972	School or Department of Human Ecology 1971	1972	Department of Environmental Science 1971	1972	Environmental Science Institute 1971	1972	Environmental Science Center 1971	1972	Environmental Studies Center 1971	1972	Environmental Health Sciences Center 1971	1972	Environmental Studies Program 1972	Institute of Ecology 1972	Environmental Quality Center 1972	Institute for Natural Resources 1972	Any Other Academic Unit 1971	1972	Total Units Established by College or University 1971	1972	Name of Respondent (First Name - 1971, Second Name - 1972)
			X	X															X		X				X		2	1	William Cruikshank, Jr. Carl H. Reidel
a			X	X							X	X													X		2	1	Dennis Barnes
Institute			X	X											X			X							X	X	2	2	Kenneth L. Dickson Coyt T. Wilson
e				X				X						X														2	Nathaniel Boggs, Jr.
ersity			X	X																	X				X		1	1	C. J. Nyman
ton			X	X																					X	X	1	1	Russell Christman
ity			X	X	X	X																					0	0	Chester Arents
Bay		-	X										X														1		
ha	X	-																											
on	X	X																											
ukee	X	-																											
			X	X	X	X																					0	0	Jim Ranz
	21	15	74	85	25	25	4	5	3	5	4	5	7	7	4	3	2	8	5	3	10	4	5	8	33	35	62	98	

Table 2. Titles of Interdisciplinary Research Units Established at State Colleges and Universities in 1971 and 1972

Name of College or University	Air Resources		Water Resources		Mineral Resources		Marine Resources		Coastal Zone Mgt.		Nuclear Science		Environmental Health		Family Planning		Nutrition		Pesticides		Toxicology		Solid Waste Mgt.		Transportation		Human or Family Ecol.		Land Use		Community Design		Housing		Urban and/or Regional Planning		Noise-Acoustic Stress		Science & Pub. Policy		Recreation		Environmental Law	Urban Planning	Regional Planning
	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1971	1971
University of Alaska				X		X		X						X																X						X									
Arizona State University			X												X								X																		X		X		
University of Arizona				X																																									
University of Arkansas	X		X		X						X		X		X		X		X		X		X		X				X		X				X						X		X	X	X
U. of California-Davis	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X						X		X	X			X		X	X
U. of California-Santa Cruz								X		X														X		X		X		X						X					X				
U. of California-Santa Barbara	X										X	X																																	
U. of California-L.A.	X	X	X	X																					X		X	X																	
U. of California-Irvine			X	X			X	X	X	X			X	X	X	X									X	X	X	X	X	X					X				X	X			X	X	X
U. of California-Riverside	X	X	X	X																X		X								X															
Colorado State University			X	X										X																															
Connecticut Ag. Exp. Sta.	X	X	X	X																			X	X													X	X							
University of Connecticut			X				X										X		X																										

…terdisciplinary Research Units Established at State Colleges and Universities in 1971 and 1972

…		…y	…ide			…Barbara	…ruz						…rsity	
	X		X		X	X		X	X				1971	Air Resources
	X		X		X			X					1972	
X	X	X	X	X	X			X	X		X		1971	Water Resources
	X	X	X	X	X			X		X		X	1972	
								X	X				1971	Mineral Resources
								X				X	1972	
X				X				X					1971	Marine Resources
				X			X	X				X	1972	
				X				X					1971	Coastal Zone Mgt.
				X			X	X					1972	
						X		X	X				1971	Nuclear Science
						X		X					1972	
				X				X	X				1971	Environmental Health
		X		X				X				X	1972	
				X				X	X		X		1971	Family Planning
				X				X					1972	
X								X	X				1971	Nutrition
								X					1972	
X								X	X				1971	Pesticides
			X					X					1972	
								X	X				1971	Toxicology
			X					X					1972	
	X							X	X		X		1971	Solid Waste Mgt.
	X						X	X					1972	
				X	X				X				1971	Transportation
				X			X	X					1972	
				X	X			X					1971	Human or Family Ecol.
				X	X		X	X					1972	
				X				X	X				1971	Land Use
			X	X			X	X				X	1972	
									X				1971	Community Design
													1972	
													1971	Housing
													1972	
				X					X				1971	Urban and/or
							X	X				X	1972	Regional Planning
	X												1971	Noise-Acoustic Stress
	X												1972	
				X				X					1971	Science & Pub. Policy
				X				X					1972	
									X		X		1971	Recreation
							X						1972	
								X	X		X		1971	Environmental Law
				X					X				1971	Urban Planning
				X				X	X				1971	Regional Planning
				X				X	X				1971	Population Control
		X											1972	Environ. Resources
													1972	Remote Sensing
													1972	Environ. Research
													1972	Environ. Education
							X						1971	Other (May be more
											X	X	1972	than one)
4	4	1	2	12	4	2	1	18	19	-	5	-	1971	By College or
0	4	3	5	10	3	1	8	17	0	1	1	7	1972	University

Name of College or University	University of Delaware	University of Florida	Georgia Inst. of Technology	University of Georgia	University of Hawaii	University of Illinois	Indiana University	Purdue University	Iowa State University	Kansas State University	University of Kansas	University of Kentucky	Louisiana State University	University of Maine
Air Resources 1971	X	X						X		X				
Air Resources 1972	X	X				X		X		X		X	X	X
Water Resources 1971	X	X		X	X		X	X		X	X			X
Water Resources 1972	X	X		X	X	X	X	X	X	X	X	X	X	X
Mineral Resources 1971				X	X						X			
Mineral Resources 1972		X		X				X			X	X		
Marine Resources 1971	X	X		X	X					X				
Marine Resources 1972	X	X		X	X								X	X
Coastal Zone Mgt. 1971	X	X												
Coastal Zone Mgt. 1972	X	X		X	X								X	
Nuclear Science 1971	X			X				X		X				
Nuclear Science 1972	X			X		X		X		X			X	
Environmental Health 1971				X	X		X	X		X	X			
Environmental Health 1972					X		X	X			X		X	
Family Planning 1971					X									
Family Planning 1972		X			X			X						
Nutrition 1971	X	X					X	X						X
Nutrition 1972	X	X					X	X		X				
Pesticides 1971	X	X						X		X				
Pesticides 1972	X	X			X			X		X				
Toxicology 1971							X	X						
Toxicology 1972	X						X	X		X				
Solid Waste Mgt. 1971								X			X			
Solid Waste Mgt. 1972	X							X		X	X			
Transportation 1971							X			X				
Transportation 1972	X						X	X		X				
Human or Family Ecol. 1971														
Human or Family Ecol. 1972						X				X				
Land Use 1971					X			X		X				
Land Use 1972	X			X	X	X		X		X				
Community Design 1971								X						
Community Design 1972								X		X				
Housing 1971								X						
Housing 1972								X						
Urban and/or Regional Planning 1971	X	X			X									
Urban and/or Regional Planning 1972	X	X		X	X		X	X		X	X	X	X	
Noise-Acoustic Stress 1971								X		X				
Noise-Acoustic Stress 1972		X						X		X				
Science & Pub. Policy 1971							X	X						
Science & Pub. Policy 1972				X			X	X						
Recreation 1971							X	X						
Recreation 1972	X			X		X	X	X						
Environmental Law 1971														
Environmental Law 1972														
Urban Planning 1971	X						X				X			
Urban Planning 1972														
Regional Planning 1971										X				
Regional Planning 1972	X	X		X	X		X			X				
Population Control 1971														
Population Control 1972			X											
Environ. Resources 1972						X		X		X	X			
Remote Sensing 1972														

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rsity

Air Resources	1971					X		X						X	X
	1972	X	X	X		X		X		X				X	X
Water Resources	1971	X			X	X		X	X		X	X		X	X
	1972	X	X	X	X	X	X	X	X	X	X	X		X	X
Mineral Resources	1971				X						X	X			
	1972			X	X			X				X		X	
Marine Resources	1971					X					X	X		X	X
	1972	X	X								X	X		X	X
Coastal Zone Mgt.	1971													X	X
	1972		X								X	X		X	X
Nuclear Science	1971					X		X				X		X	
	1972		X			X		X		X		X		X	
Environmental Health	1971				X	X		X	X		X	X			
	1972		X		X			X	X		X				
Family Planning	1971										X				
	1972							X			X			X	
Nutrition	1971							X						X	X
	1972	X				X		X	X					X	X
Pesticides	1971					X		X						X	X
	1972					X		X			X			X	X
Toxicology	1971							X	X						X
	1972					X		X	X						X
Solid Waste Mgt.	1971				X			X							X
	1972				X	X		X							X
Transportation	1971					X			X						X
	1972					X		X	X						X
Human or Family Ecol.	1971														
	1972					X				X					
Land Use	1971					X		X			X				X
	1972					X		X		X	X	X			X
Community Design	1971							X							
	1972					X		X							
Housing	1971							X							
	1972							X							
Urban and/or Regional Planning	1971										X			X	X
	1972		X	X	X	X		X	X		X	X		X	X
Noise-Acoustic Stress	1971					X		X							
	1972					X		X						X	
Science & Pub. Policy	1971							X	X						
	1972							X	X			X			
Recreation	1971							X	X			X			X
	1972							X	X	X		X			X
Environmental Law	1971														
Urban Planning	1971				X				X						X
Regional Planning	1971					X									
Population Control	1971					X			X		X	X		X	X
Environ. Resources	1972												X		
Remote Sensing	1972				X	X		X		X					
Environ. Research	1972														
Environ. Education	1972														
Other (May be more than one)	1971											X	X		X
	1972			X								X			X
By College or University	1971	1	-	-	5	11	0	14	8	0	8	8	1	9	15
	1972	4	7	5	6	14	1	19	8	7	8	10	1	11	13

Name of College or University	Air Resources		Water Resources		Mineral Resources		Marine Resources		Coastal Zone Mgt.		Nuclear Science		Environmental Health		Family Planning		Nutrition		Pesticides		Toxicology		Solid Waste Mgt.		Transportation		Human or Family Ecol.		Land Use		Community Design		Housing		Urban and/or Regional Planning		Noise-Acoustic Stress		Science & Pub. Policy		Recreation		Environmental Law		Urban Planning		Regional Planning	
	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972
University of Maryland	X	X	X	X			X	X	X		X	X	X	X	X	X	X	X	X	X				X	X	X			X	X	X	X	X	X	X	X	X	X						X		X			
University of Massachusetts			X	X			X	X	X	X	X	X	X	X	X		X	X	X	X										X	X	X			X	X					X	X						
Michigan State University	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
University of Michigan			X	X			X	X					X	X	X	X																			X	X			X		X	X				X	X	
University of Minnesota	X	X	X	X		X		X					X	X	X	X		X		X		X		X						X		X		X		X				X		X						X
Mississippi State University			X	X			X	X					X	X	X		X	X	X	X			X	X							X	X					X				X	X						
University of Missouri			X	X							X	X	X	X			X	X			X				X	X	X	X													X	X		X			X	
University of Montana																													X						X		X				X	X						
University of Nebraska			X	X													X	X																	X	X	X						X	X				
University of New Hampshire			X	X	X		X	X																					X	X	X	X			X						X	X			X			
Rutgers University		X		X		X		X		X		X						X		X		X		X		X				X				X	X		X		X			X				X		
New Mexico State University																																																
University of North Carolina		X		X				X										X																		X												
University of North Dakota																																																
Kent State University				X													X	X								X				X		X				X												

		...ta	...olina	...sity		...shire				...rsity			...ty	...etts	...rsity		
											x		x		x	1971	Air Resources
			x		x						x		x		x	1972	
						x	x		x	x	x	x	x	x	x	1971	Water Resources
	x		x		x	x	x		x	x	x	x	x	x	x	1972	
						x							x			1971	Mineral Resources
					x						x		x			1972	
						x				x		x	x	x	x	1971	Marine Resources
			x		x	x				x	x	x	x	x	x	1972	
													x	x	x	1971	Coastal Zone Mgt.
					x								x	x		1972	
									x					x	x	1971	Nuclear Science
					x				x				x	x	x	1972	
									x	x	x	x	x	x	x	1971	Environmental Health
									x	x	x	x	x	x	x	1972	
										x	x	x	x	x	x	1971	Family Planning
											x	x	x		x	1972	
	x						x		x	x			x	x	x	1971	Nutrition
	x		x		x		x		x	x	x		x	x	x	1972	
										x			x	x	x	1971	Pesticides
					x					x	x		x	x	x	1972	
									x				x			1971	Toxicology
					x						x		x			1972	
										x			x			1971	Solid Waste Mgt.
					x					x	x		x		x	1972	
									x				x		x	1971	Transportation
	x				x				x				x		x	1972	
									x				x			1971	Human or Family Ecol.
									x				x			1972	
						x							x		x	1971	Land Use
	x				x	x		x			x		x	x	x	1972	
						x				x			x	x	x	1971	Community Design
	x					x				x	x		x	x	x	1972	
													x		x	1971	Housing
					x						x		x		x	1972	
												x	x	x	x	1971	Urban and/or Regional Planning
	x		x		x	x	x	x			x	x	x	x	x	1972	
							x						x		x	1971	Noise-Acoustic Stress
					x		x	x		x			x		x	1972	
												x	x			1971	Science & Pub. Policy
					x						x		x			1972	
						x		x	x	x		x	x	x		1971	Recreation
					x	x		x	x	x	x	x	x	x		1972	
													x			1971	Environmental Law
							x		x				x		x	1971	Urban Planning
						x	x					x	x		x	1971	Regional Planning
									x		x	x	x			1971	Population Control
					x		x	x			x					1972	Environment. Resources
										x	x	x	x			1972	Remote Sensing
				x												1972	Environment. Research
																1972	Environment. Education
	x	x				x	x	x	x	x	x	x	x			1971	Other (May be more than one)
		x				x			x	x	x	x	x			1972	
	2	1	0	0	-	8	6	2	11	10	6	10	25	11	17	1971	By College or University
	6	1	5	1	18	7	5	5	8	11	19	8	23	11	15	1972	

Name of College or University	Air Resources		Water Resources		Mineral Resources		Marine Resources		Coastal Zone Mgt.		Nuclear Science		Environmental Health		Family Planning		Nutrition		Pesticides		Toxicology		Solid Waste Mgt.		Transportation		Human or Family Ecol.		Land Use		Community Design		Housing		Urban and/or Regional Planning		Noise-Acoustic Stress		Science & Pub. Policy		Recreation		Environmental Law	Urban Planning	Regional Planning	Population Control
	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1972	1971	1971	1971	1971
Miami University																																														
Ohio State University	X	X	X	X		X						X												X		X				X		X		X		X		X								
Ohio University			X																				X																					X	X	
University of Oklahoma		X		X		X		X				X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X				
Oklahoma State University		X		X										X		X		X		X		X		X		X		X		X		X		X		X		X		X		X				
Oregon State University	X	X	X	X			X	X		X	X	X	X	X			X	X	X	X	X	X	X	X	X	X				X				X	X			X	X							
Pennsylvania State University	X	X	X	X		X		X				X		X		X		X	X	X					X	X			X	X						X		X	X						X	
University of Puerto Rico																														X						X						X				
Clemson University			X																																											
University of South Carolina								X																X												X										
South Dakota State University	X		X	X	X							X											X						X							X		X		X		X			X	X	
University of South Dakota		X		X										X						X				X				X		X						X						X				
University of Tennessee			X	X													X	X								X									X	X				X	X					
Texas Technological University				X											X			X		X		X						X																		

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		ersity		ota	ersity	olina		co	ersity		ty				rsity
Air Resources	1971				X				X	X				X	
	1972			X					X	X	X	X		X	
Water Resources	1971		X		X		X		X	X			X	X	
	1972	X	X	X	X				X	X	X	X		X	
Mineral Resources	1971				X										
	1972								X			X		X	
Marine Resources	1971									X					
	1972					X			X	X		X			
Coastal Zone Mgt.	1971														
	1972									X					
Nuclear Science	1971									X					
	1972								X	X		X		X	
Environmental Health	1971				X					X					
	1972			X					X	X	X	X			
Family Planning	1971														
	1972	X							X		X	X			
Nutrition	1971		X							X					
	1972	X	X						X	X	X	X			
Pesticides	1971								X	X					
	1972	X		X					X	X	X	X			
Toxicology	1971									X					
	1972	X								X	X	X			
Solid Waste Mgt.	1971				X					X			X		
	1972			X		X				X	X	X		X	
Transportation	1971								X	X					
	1972		X						X	X	X	X		X	
Human or Family Ecol.	1971														
	1972	X		X							X	X			
Land Use	1971				X				X						
	1972			X				X	X	X	X	X		X	
Community Design	1971														
	1972										X	X		X	
Housing	1971														
	1972										X	X		X	
Urban and/or Regional Planning	1971		X							X					
	1972		X	X	X	X		X	X	X	X	X		X	
Noise-Acoustic Stress	1971														
	1972										X	X		X	
Science & Pub. Policy	1971				X				X	X					
	1972								X	X	X	X			
Recreation	1971		X		X										
	1972		X	X				X			X	X			
Environmental Law	1971				X										
Urban Planning	1971												X		
Regional Planning	1971				X				X				X		
Population Control	1971				X										
Environ. Resources	1972														
Remote Sensing	1972				X				X	X				X	
Environ. Research	1972														
Environ. Education	1972			X											
Other (May be more than one)	1971								X	X				X	
	1972	X							X	X		X		X	X
By College or University	1971	-	4	0	11	0	1	-	8	13	0	0	4	3	-
	1972	7	5	10	3	3	-	3	15	16	17	21	0	13	1

Name of College or University		University of Texas	Utah State University	University of Vermont	University of Virginia	Virginia Polytechnic Inst.	Virginia State College	Washington State University	University of Washington	West Virginia University	University of Wisconsin	TOTAL UNITS
Air Resources	1971		X			X		X	X	X	X	23
	1972	X	X		X			X	X	X		29
Water Resources	1971	X	X	X		X		X	X	X	X	42
	1972	X	X	X	X	X		X	X	X		50
Mineral Resources	1971	X						X			X	11
	1972	X			X			X				16
Marine Resources	1971	X			X			X	X		X	20
	1972	X			X			X	X			27
Coastal Zone Mgt.	1971				X				X		X	10
	1972	X			X				X			15
Nuclear Science	1971					X		X	X		X	15
	1972	X	X					X	X			21
Environmental Health	1971				X	X		X	X	X		23
	1972	X					X	X	X	X		26
Family Planning	1971								X		X	13
	1972				X				X			15
Nutrition	1971		X					X	X		X	19
	1972		X					X	X			26
Pesticides	1971		X					X				15
	1972		X		X		X	X				23
Toxicology	1971									X		9
	1972		X							X		15
Solid Waste Mgt.	1971		X			X		X	X	X	X	18
	1972	X	X		X			X	X	X		24
Transportation	1971		X			X		X	X			15
	1972	X			X			X	X			22
Human or Family Ecol.	1971								X	X		7
	1972				X		X		X	X		16
Land Use	1971		X		X	X		X	X	X	X	18
	1972	X	X		X			X	X	X		32
Community Design	1971					X			X			9
	1972	X	X						X			15
Housing	1971				X	X		X	X			7
	1972	X						X	X			11
Urban and/or Regional Planning	1971		X			X		X	X			14
	1972	X			X	X			X			39
Noise-Acoustic Stress	1971								X			7
	1972								X			14
Science & Pub. Policy	1971				X	X		X	X		X	14
	1972	X			X		X	X	X			18
Recreation	1971		X			X		X	X		X	20
	1972		X		X			X	X			24
Environmental Law	1971								X			6
Urban Planning	1971					X			X			12
Regional Planning	1971					X			X			14
Population Control	1971								X		X	16

		in	ity	ton	ersity	e	inst.	a					iversity
Air Resources	1971	23	X	X	X	X		X				X	
	1972	29		X	X	X			X			X	X
Water Resources	1971	42	X	X	X	X		X		X		X	X
	1972	50		X	X	X		X	X	X		X	X
Mineral Resources	1971	11	X			X							X
	1972	16				X			X				X
Marine Resources	1971	20	X		X	X			X				X
	1972	27			X	X			X				X
Coastal Zone Mgt.	1971	10	X		X				X				
	1972	15			X				X				X
Nuclear Science	1971	15	X		X	X		X					
	1972	21			X	X						X	X
Environmental Health	1971	23		X	X	X		X	X				
	1972	26		X	X	X	X						X
Family Planning	1971	13	X		X								
	1972	15			X				X				
Nutrition	1971	19	X		X	X						X	
	1972	26			X	X						X	
Pesticides	1971	15				X						X	
	1972	23				X	X		X			X	
Toxicology	1971	9		X									
	1972	15		X								X	
Solid Waste Mgt.	1971	18	X	X	X	X		X				X	
	1972	24		X	X	X			X			X	X
Transportation	1971	15			X	X		X				X	
	1972	22			X	X			X				X
Human or Family Ecol.	1971	7		X	X								
	1972	16		X	X		X		X				
Land Use	1971	18		X	X	X		X	X			X	
	1972	32		X	X	X			X			X	X
Community Design	1971	9			X			X					
	1972	15			X							X	X
Housing	1971	7			X	X		X	X				
	1972	11			X	X							X
Urban and/or Regional Planning	1971	14			X	X		X				X	
	1972	39			X			X	X				X
Noise-Acoustic Stress	1971	7			X								
	1972	14			X								
Science & Pub. Policy	1971	14	X		X	X		X	X				
	1972	18		X	X	X	X		X				X
Recreation	1971	20	X		X	X		X				X	
	1972	24			X	X			X			X	
Environmental Law	1971	6			X								
Urban Planning	1971	12			X			X					
Regional Planning	1971	14			X			X					
Population Control	1971	16	X		X								
Environ. Resources	1972	6											
Remote Sensing	1972	13			X								
Environ. Research	1972	3				X				X			
Environ. Education	1972	1											
Other (May be more than one)	1971	19	X			X							
	1972	23		X	X	X			X				X
By College or University	1971	396	13	7	22	16	4	14	6	1	9	3	
	1972	524	-	9	20	16	-	2	15	2	10	15	

Table 3. Summary of Number and Magnitude of Interdisciplinary Environmental Research Units Reported by State Colleges and Universities in Response to First Questionnaire (1971)

Interdisciplinary Research Unit Name	Number of Institutions With Unit	Total No. in Each Size Category-Fac FTE (Incl. Postdoc. Res. Assoc.) <3	<6	<9	<12	>12	Total No. of Grad. Students	Total No. in Each Support Category (Thousands of Dollars) *100	100-250	250-500	500-1000	>1000
Water Resources	42	11	7	8	4	10	575	7	15	6	3	3
Air Resources	23	5	4	3	3	4	249	7	6	0	4	1
Environmental Health	23	1	8	4	1	5	258	8	4	3	1	1
Recreation	20	10	6	2	1	0	120	12	3	1	0	0
Marine Resources	20	2	6	3	1	5	503	5	4	3	3	2
Solid Waste Mgt.	19	8	4	3	0	2	73	5	4	1	0	2
Nutrition	19	2	6	2	2	5	181	5	5	2	0	1
Land Use	18	4	5	2	2	2	66	8	2	1	0	0
Population Control	17	6	4	2	0	3	96	7	3	0	2	0
Transportation	15	4	3	3	0	2	92	7	1	0	3	0
Nuclear Science	15	1	3	3	2	1	41	2	1	5	1	1
Pesticides	15	2	2	5	3	2	120	5	3	2	2	1
Science & Pub. Policy	14	7	2	1	2	2	84	7	4	1	0	0
Urban & Reg. Planning	14	2	5	3	2	3	148	4	2	4	0	0
Regional Planning	14	4	5	0	3	1	115	6	2	0	0	1
Urban Planning	12	1	4	2	3	1	177	3	4	0	0	2
Family Planning	12	4	2	3	0	3	78	4	2	0	2	0
Mineral Resources	11	4	2	1	1	2	48	4	2	1	1	0
Coastal Zone Mgt.	11	2	2	0	1	2	85	3	2	1	0	1
Toxicology	9	2	3	0	0	2	60	3	1	1	1	0
Community Design	9	1	3	3	0	0	54	6	1	0	0	0
Noise-Acoustic Stress	7	2	4	0	0	0	15	4	0	0	0	0
Human or Family Ecol.	7	1	2	0	1	2	125	2	0	1	0	0
Environmental Law	6	3	2	1	0	0	7	2	0	0	0	0
Housing	6	1	2	0	1	0	19	3	0	0	0	0
All Others Combined	19*	3	7	2	1	4	331	5	6	3	1	1
TOTALS	397	93	101	56	34	63	3,720	134	77	36	24	17

*Nineteen universities responded for a total of 33 "other" units.

Table 4. Summary of Number and Magnitude of Interdisciplinary Environmental Research Units Reported by State Colleges and Universities in Response to Second Questionnaire (1972)

Interdisciplinary Research Unit Name	Number of Institutions With Unit	Total No. in Each Size Category-Fac. FTE (Incl. Postdoc. Res. Assoc.) <3	<6	<9	<12	>12	Total No. of Grad. Students	Total No. in Each Support Category (Thousands of Dollars) <100	100-250	250-500	500-1000	>1000
Water Resources	50	9	15	8	1	12	638	10	22	7	3	3
Urban or Reg. Planning	39	6	13	8	4	6	601	16	4	7	0	2
Land Use	32	9	7	7	4	3	125	16	6	1	0	0
Air Resources	29	6	7	5	3	5	247	7	8	1	3	2
Marine Resources	27	2	5	6	4	9	612	4	2	5	3	4
Environmental Health	26	1	8	5	1	5	317	8	5	2	2	2
Nutrition	26	1	7	5	3	7	283	9	5	2	1	0
Solid Waste Mgt.	24	9	7	4	1	2	104	11	2	2	0	1
Recreation	24	10	8	3	1	2	168	14	4	1	0	0
Pesticides	23	5	6	3	6	3	139	6	2	6	2	1
Transportation	22	8	6	3	2	2	108	8	4	2	2	0
Nuclear Science	21	1	5	3	6	2	232	2	5	5	2	1
Science & Pub. Policy	18	7	5	2	2	0	56	5	7	0	1	1
Mineral Resources	16	4	2	3	1	5	142	4	4	2	2	0
Human Ecology	16	6	5	1	2	1	146	6	2	1	0	0
Family Planning	15	4	4	2	2	2	102	5	2	0	0	2
Coastal Zone Mgt.	15	4	4	3	1	0	59	5	1	4	2	0
Toxicology	15	3	7	1	1	3	67	3	3	1	2	0
Community Design	15	4	3	3	2	1	71	7	2	0	0	0
Noise-Acoustic Stress	14	6	6	0	1	0	23	6	1	0	0	0
Remote Sensing	13	2	4	2	1	3	83	3	3	1	2	1
Housing	11	3	2	1	2	0	35	5	2	0	0	0
Environmental Resources	6	0	2	2	0	2	2	0	1	2	0	1
Environmental Research	3	2	1	0	0	0	8	2	1	0	0	0
Environmental Education	1	1	0	0	0	0	0	1	0	0	0	0
All Others Combined	31*	6	11	3	3	4	294	8	9	5	2	1
TOTALS	532	119	150	83	54	79	4,662	171	107	57	29	22

*Thirty-one universities responded for a total of 38 "other" units.