DOCUMENT RESUME

ID 102 911

HT 006 278

AUTHOR TITLE Hicek, Sidney S.; Arney, William Ray
The Higher Education Outcome Measures Identification

Study. A Descriptive Sunnary.

INSTITUTION

Western Interstate Commission for Higher Education, Boulder, Colo. National Center for Higher Education

Nanagement Systems.

SPONS AGENCY

Ford Foundation, New York, N.Y.: National Inst. of

Education (DHEW), Washington, D.C.

PUB DATE

Nov 74 158p.

EDRS PRICE DESCRIPTORS

MF-\$0.76 HC-\$8.24 PLUS POSTAGE

*Data Collection; *Decision Making; *Higher

Education; Information Systems; *Hanagement;

*Hanagement Information Systems; *Hanagement Systems;

Questionnaires: Statistical Data: Surveys

ABSTRACT

This document is intended to inform NCHEHS constituents and other interested persons about the results of the Higher Education Outcome Measures Identification Study (OMIS) conducted by the National Center for Higher Education Management Systems at WICHE in spring 1974. The purpose of the study was to help practitioners and researchers gain a better understanding of the outcome information important to different decision makers and accessible to them. It was intended also to assist in identifying a set of outcome measures for which data acquisition procedures need to be developed. The basic methodology used in the study was a self-raported questionnaire administered through the mail. The sample of persons surveyed included top-level college administrators and state-level decision makers. Their responses to the questionnaire were analyzed using descriptive statistical techniques and are shown in descriptive tables in this paper. It should be noted that while the descriptive summaries of the data represent the input of a large number of decision makers, in no way should they be viewed as standards. The document covers: the design of the study; administration of the questionnaire; response rates to the questionnaire; results of the study; concluding comments and references. Appendices include copies of the introductory letters, institutions involved in the study, and additional tabular displays of the survey responses. (Author/PG)



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THE HIGHER EDUCATION OUTCOME MEASURES IDENTIFICATION STUDY

A Descriptive Summary



THE HIGHER EDUCATION OUTCOME MEASURES IDENTIFICATION STUDY

A Descriptive Summary

Sidney S. Micek William Ray Arney

November 1974

This study is part of a research and development program supported by the Ford Foundation and the National Institute of Education.

NATIONAL CENTER FOR HIGHER EDUCATION MANAGEMENT SYSTEMS AT WICHE P.O. Drawer P Boulder, Colorado 80302

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This document has been reviewed and approved for publication by the NCHEMS staff, Board of Directors, and Outcomes of Postsecondary Education Task Force. This publication does not necessarily reflect official positions or policies of NCHEMS, WICHE, the Ford Foundation, or the National Institute of Education.

PREFACE

This document is intended to inform NCHEMS constituents and other interested persons about the results of the Higher Education Outcome Measures Identification Study (OMIS) conducted by the National Center for Higher Education Management Systems at WICHE in Spring 1974. The purpose of the study was to help practitioners and researchers gain a better understanding of the outcome information important to different decision makers and accessible to them. It was intended also to assist in identifying a set of outcome measures for which data acquisition procedures need to be developed.

The basic methodology used in the study was a self-report questionnaire administered through the mail. The sample of persons surveyed included top-level college administrators and state-level decision makers. Their responses to the questionnaire were analyzed using descriptive statistical techniques and are shown in descriptive tables in this paper. It should be noted that while the descriptive summaries of the data represent the input of a large number of decision makers, in no way should they be viewed as standards.



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ACKNOWLEDGEMENTS

Extensive assistance in the development and conduct of the study was provided by a wide range of persons. In particular, members of NCHEMS Outcomes of Postsecondary Education Task Force were most helpful in providing comments and suggestions and deserve special acknowledgement.

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The authors wish to express their appreciation also to Dr. James Nelson of Michigan State University. Dr. Richard Harpel of the University of Colorado, and



vi i

Gamso, Dennis Jones, Dr. Wayne Kirschling, Marilyn McCoy, Glenn Miyataki, Dr. Allan Service, and Dr. Robert Wallhaus for their assistance in carrying out the study. Finally, the authors are indebted to the designated NCHEMS institutional liaison officers who distributed the OMIS questionnaire packets to the persons we wished to survey in their institutions.

A special note of thanks is given to the Outcomes Project Task Force and Cathleen Bower, Maureen Byers, Dr. Oscar Lenning, and Dr. Allan Service of the NCHEMS staff for their valuable reviews of previous drafts of this summary document.

TABLE OF CONTENTS

Tutloanction	• • •	• •	• •	•	• .	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1
Design of Stu	dy .	• •	• •	•	• •	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	3
Administratio	n of	Que	stio	nn	ai~	.6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Response Rate	s to	the	Que	st	ior	na	ir	9	•	•	•.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	7
Results of th	e Stı	ıdy	•	•	• •	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	9
Concluding Co	ament	ts.	• •	•	• •	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	. •	•	•	•	35
References .	• • •	• •	• •	•	• •	•	•	•	•	•	•	•	•	•	•	•	.•	•	•	•	•	•	•	•	•	36
Append1x A:	Copie Insti Quest	es of itut	f th Iona nair	e 1	Int Lia Use	ro its	duc on in	cto Gu ti	ory uic	y l dei Si	Let I i r tuo	tte les ly	ers S,	ar	th nd •	ie ti	10	•	•	•	•	•	•	•	•	37
Appendix B:	Insti	tut	ions	I	nvo	lv	ed	ir	n 1	the	2 5	itı	ıqı	,	•	•	•	•	•	•	•	•	. •	•	•	73
Appendix C:	Add11 Surve	tiona Ly Ro	al T espo	ab ns	ula es	ır i	Dis	sp1	lay	/S •	01	F 1	the	2	•	•	•	•		•	•	•			•	79



LIST OF TABLES

1.	and State-Level Decision Maker Groups for Each of the Ten Outcome Areas in the Questionnaire
2	The Mean Importance Scores of the Different Types of College Administrator and State-Level Decision Maker Groups for Each of the Ten Outcome Areas in the Questionnaire
3	The Percentage of the Different Types of College Administrator and State-Level Decision Maker Groups Endorsing Each Outcome Measure in the Questionnaire as "Need to Know"
4	The Top Twenty Outcome Measures Endorsed as "Need to Know" by the Different Types of College Administrators and State-Level Decision Makers
C.1	The Percentage and Number of Responses to the "Needs" Question, by Type of College Administrator
C.2	The Percentage and Number of Responses to the "Access" Question, by Type of College Administrator
C.3	The Percentage and Number of Responses to the "Needs" Question, by Administrators in Community Colleges, Four-Year Colleges, and Universities
C.4	The Percentage and Number of Responses to the "Needs" Question, by Administrators in Public and Private Four-Year Colleges and Universities
C.5	The Percentage and Number of Responses to the "Needs" Question, by College Administrators, State-Level Planners, and State Legislators
C.6	The Percentage and Number of Responses to the "Access" Question, by College Administrators, State-Level Planners, and State Legislators
C.7	The Percentage and Number of Responses to the "Needs Question, by Sector of State-Level Planner



THE HIGHER EDUCATION OUTCOME MEASURES IDENTIFICATION STUDY

INTRODUCTION

Most decision makers concerned with higher education today have recognized that for the planning and management process to be effective, it must be based not only on information about inputs, activities, and costs, but also must take into consideration information about the outcomes or results of educational programs. While these decision makers have acquired this awareness, they are equally aware of the complexity of the problems associated with identifying and measuring the outcomes of higher education and then using this information for planning, management, and accountability purposes.

In response to the need for outcome information and in the problems encountared in obtaining and using such information, the National Center for Higher Education Management Systems (NCHEMS) established the Outcomes of Postsecondary Education Project. The Outcomes Project rests on the premise that three needs must be met if outcomes information is to be effectively incorporated in post-secondary education planning and management:

- 1. The need to provide a comprehensive picture of the outcomes of postsecondary education and to develop the capability to measure them.
- 2. The need to provide a structure for organizing outcomes information as a prerequisite for analysis and communication.



3. The need to develop analytic procedures for applying this information to particular planning and management problems.

ता को । अन्य के पार्काणक प्रकार में के की काम्रमुख क्योग्याहा राजाक का प्रकार कर पर **स्थाप्त क**ाम क्यों हैं।

One of the major activities of the Project designed to meet these needs has been the development of the "Inventory of Higher Education Outcome Variables and Measures" (Micek and Wailhaus, 1973). This inventory lists and describes a wide array of higher education outcomes and suggests potential measures or proxy measures for them. As the Project staff have worked on the problem of obtaining and using higher education outcome information, we primary concern has been identifying the particular outcomes and associated measures that are most important to different types and levels of decision makers. Obviously, this concern is a valid one, given the different planning and management responsibilities of the various decision makers.

The Higher Education Outcome Measures Identification Study was initiated to address this concern. The objectives of the study were:

- 1. To learn what outcome information different decision makers need for their decision-making responsibilities.
- 2. To learn what outcome information currently is available to them.
- 3. To identify a high priority list of outcome measures for which data acquisition procedures need to be developed.

The purpose of this paper is to summarize the procedures used in the study and highlight some results of the study. A brief discussion of how the results of the study will be used in the Outcomes project also is presented.



Design of the Study

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The Higher Education Outcome Measures Identification Study (OMIS) was conducted in two phases: a pilot test and a full-scale survey. The purpose of the pilot-test phase was threefold. First, it was designed to gain an initial perspective, prior to the full-scale study, of the outcome measures different decision makers need. Second, it was carried out to help identify additional outcome measures that might have been overlooked in developing the list of measures included in the pilot test survey questionnaire. Finally, it was initiated to improve the OMIS survey procedures so the full-scale survey could be implemented smoothly.

In the pilot test, questionnaires were sent to a small sample of college administrators (including college presidents and top-level administrators for academic affairs, student affairs, and budget and finance), and a small sample of state-level decision makers (including statewide planners and state legislators). The results of the pilot survey are contained in a <u>Preliminary Summary of the Higher Education Outcome Measures Identification Study Pilot Test</u> (Micek, 1973).

As a result of the pilot test, two changes were made in the full-scale OMIS. First, in the earlier questionnaire, legislators were asked to decide the extent to which they needed each outcome measure relative to their decision-making responsibilities concerning: community colleges, four-year colleges, and universities.* Thus, each question or item was essentially three items for



^{*}This kind of inquiry was based on the belief that state legislators make separate decisions relative to the different kinds of institutions. As a result, it was felt that they also might need different outcome measures for the different kinds of institutions.

the legislators. It was found, however, that there were few differences in their responses for the various types of institutions. For that reason, the three-part approach in the legislators' pilot test questionnaire was not maintained in the full-scale study. The other major change in the survey questionnaire used in the full-scale study was the addition of a second question for each outcome measure. This question was designed to determine whether a respondent felt he or she had access to a particular outcome measure. Thus, questionnaires used in the full-scale OMIS asked respondents to indicate whether they needed a particular outcome measure and whether they had access to it. A copy of the complete questionnaire used in the full-scale OMIS appears in Appendix A of this paper.

In the OMIS, survey questionnaires were sent to members of the following decision-making groups:

- 1. College Administrators (N = 388)
 - a. Presidents (n = 97)
 - b. Top administrators for academic affairs (n = 97)
 - C. Top administrators for student affairs (n = 97)
 - d. Top administrators for budget and finance (n = 97)
- 2. State-Level Decision Makers (N = 125)
 - a. Statewide Planners* (n = 75)
 - b. State Legislators (n = 50)

4

This group included state directors of higher education and community/junior college governing boards and coordinating councils.

Different strategies were used in selecting the sample for each of these groups. The college administrators sample was drawn from the institutions that participate in the advisory structure of NCHEMS. Institutions were divided initially into ten groups on the basis of three variables: type of institution (community/junior college, four-year college, and university); control of institution (private versus public); and level of institutional participation in NCHEMS (Levels I-II and Levels III-IV).* This normally would result in twelve groups, but there were no community/junior colleges that were privately controlled. To obtain the sample for the study, ten institutions were drawn at random from each of the ten groups.** The president and top administrators for academic affairs, student affairs, and budget and finance in each of these institutions were sent questionnaires. The method used to distribute the questionnaires to the various administrators is described below.

The statewide planners group included state directors of higher education boards and coordinating councils and their counterparts associated with state community/junior college boards and coordinating councils. Persons sent questionnaires in these groups included all members of SHEEO (State Higher Education Executive Officers) and all directors of state community/junior college planning agencies who were not included in the pilot test survey pool.



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^{*}At the time this study was conducted, institutional participation in NCHEMS consisted of four levels. Appendix B describes the four levels of participation and lists the institutions selected for the study.

^{**}Three institutions could not be contacted, so were deleted from the study. Thus, as indicated on page 4, questionnaires were distributed to administrators in 97 institutions rather than 100 as was planned initially.

The fifty state legislators were selected randomly from the list of state legislative standing committees and chairmen compiled by The Council of State Governments (1973). The only criterion for their selection was that they be a chairperson of a committee on education, finance or budget, ways and means, or some committee dealing specifically with higher education. State legislators surveyed in the pilot-test version of the OMIS were selected after the sample had been selected for the full-scale OMIS.

Administration of the Questionnaires

The following procedure was used to distribute questionnaires to the institutional administrators:

- 1. Once the institutions to be surveyed had been identified, the designated NCHEMS liaison officer in each institution was contacted by telephone and asked if he would be willing to assist in the study. In each case, the liaison officer agreed to participate. Two public four-year institutions and one public university could not be contacted and were not replaced in the pool of institutions.
- 2. Following the telephone contact, each liaison officer was sent four questionnaire packets and guidelines for distributing the packets to the president (or executive vice-president) and top-level administrators for academic affairs, student affairs, and budget and finance. <u>Each</u> questionnaire packet contained a questionnaire, an introductory cover letter, and a postage-paid return envelope.

6

3. Approximately two weeks after the questionnaire packets were mailed to the liaison officers, follow-up letters were sent.

These letters informed the liaison officers of the administrators in their institution who had not returned questionnaires. The letters also asked them to encourage those administrators to complete and return their questionnaires.

The procedure for administering the questionnaires to the statewide planners and state legislators was somewhat different from the one used to obtain responses from the college administrators:

- 1. Once the statewide planners and state legislators to be included in the survey were identified, questionnaires were mailed. Enclosed with each questionnaire were a personal introductory letter and a postage-paid envelope.
- 2. Two weeks after the initial mailing of the questionnaires to these groups, follow-up letters and questionnaires were sent to those persons who had not yet responded.

Copies of the indroductory and follow-up letters used in the study are presented in Appendix A.

Response Rates to the Questionnaires

The overall response rate for this study was 58%. Responses were received from at least one administrator in 95 of the 97 institutions included in the pool. The following shows various breakdowns of the response rate (the number of respondents from each group is in parentheses):

College administrators 61% (235)

State-level respondents 51% (64)



By type and control of institution:

	Pub11c	Private -	
Community and two-year colleges	77% (62)		77% (62)
Four-year colleges	60% (43)	61% (49)	61% (92)
Universities	58% (44)	46% (37)	52% (81)
	65% (149)	54% (86)	61% (235)

By type of institutional administrator:

·	Pres.	Acad. Aff.	Stud. Aff.	<u>Business</u>
Community and two-year colleges	65% (13)	80% (16)	95% (19)	70% (14)
Four-year colleges	58% (22)	55% (21)	71% (27)	58% (22)
Universities	44% (17)	62% (24)	49% (19)	54% (21)
	54% (52)	53% (61)	67% (65)	59% (57)

By type of state-level respondents

There were few differences in the response rates of institutions by NCHEMS level of participation. Also, there were few differences among response rates of administrators with the possible exception of the overall rate for community and two-year colleges compared to the response rates for other types of institutions. For the state-level respondents, however,

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the response rate of the statewide planning group was much better than the response rate of the state legislators. One reason for this difference could be that statewide planners are more familiar with NCHEMS and its work. Another reason might be that the addresses used in sending the questionnaires to state legislators may not have been specific enough. For example:

The Honorable Joseph Smith State Capitol Building Phoenix. Arizona 85007

Because of this, many state legislators may not have received the questionnaires or received them so close to the designated return date that they chose not to respond. An additional problem was that most state legislators were in the midst of their legislative sessions at the time of the mailing, and, therefore, may have been just too busy. Obviously, other reasons could be conjectured.

Results of the Study*

The participants in the study were asked three major questions. The first question concerned the extent to which they felt they needed information about each of the ten outcome information categories delineated in Section I of the questionnaire. The second major question dealt with the extent to which each respondent felt the need for each of the specific outcome measures listed in Section II of the questionnaire. The final question each respondent was asked pertained to his/her access to or ability to obtain each of the outcome measures presented in Section II. The descriptive tables in this section highlight the responses of the different types of decision groups involved in the study to these questions.

^{*}In this part of the paper only a limited number of tables are presented and discussed. A more extensive presentation of the results without any discussion is in Appensix C.



Table 1 summarizes the responses of the coilege administrator and state-level decision maker groups to the question regarding the importance of each of the ten outcome information areas in Section I of the questionnaire. As is apparent from Table 1, these outcome information areas are defined in very general terms. The mean scores in Table 1 are based on a five-point scale with a score of 5 being equivalent to "Of Extremely High Importance" and a score of 1 corresponding to "Of No Importance."

As Table 1 shows, the most important outcome information area for the college administrators' group was Outcome Area C (Student Educational Satisfaction), whereas, the most frequently selected area for the state-level group was Outcome Area I (Community Impact). Comparisons of the mean importance scores of the two groups for each of the areas, however, suggest that both groups were in relatively close agreement with the exception of the Student Social/Cultural Development and the Student Personal Development areas. College administrators indicated that they needed information about these areas more so than did the state-level respondents.



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TABLE 1

THE MEAN IMPORTANCE SCORES OF THE COLLEGE ABMINISTRATOR AND STATE-LEVEL DECISION-MAKER GROUPS FOR EACH OF THE TEN OUTCOME AREAS IN THE QUESTIONNAIRE*

Г		COLI	EGE	STATE	LEVEL
	OUTCOME AREAS	MEAN	(SD)	NEAN	(\$0)
٨	STUDENT MONLEDGE AND SKILLS DEVELOPMENT Information about student understanding, competencies, and attitudes relative to bodies of facts and principles and use of their intellectual and physical abilities.	3.78	(1.22)	3.74	(1.72)
8	STUDENT EDUCATIONAL CAREER DEVELOPMENT Information about student attitudes and success concerning certain academic pursuits (e.g., student educational degree aspirations and attainments).	3.92	(1.09)	3.81	(.82)
C	STUDENT EDUCATIONAL SATISFACTION Information that indicates the satisfaction of students about ne knowledge and skills they have acquired and their progress toward their educational and occupational career objectives.	4.05	(1.04)	3.73	(.99)
D	STUDENT OCCUPATIONAL CAREER DEVELOPMENT Information about student attitudes and success concerning certain occupational goals and their job performance.	3.80	(1.09)	3.84	(.95)
3	STUDENT PERSONAL DEVELOPMENT Information about changes in students concerning the growth and maintenance of their personal life (e.g., their ability to adapt to new situations, their self-concept, etc.).	3.55	(1.18)	2.91	(1.04)
F	STUDENT SOCIAL/CULTURAL DEVELOPMENT Information about student abilities and attitudes in dealing with people and their interest in cultural activities.	3.39	(1.11)	2.81	(.97)
9	COMPRISTY EDUCATIONAL DEVELOPMENT Information about the attitudes and success of normatriculating participants concerning their acquisition of knowledge and skills, personal and social development, and occupational career goals and performance.	3.18	(1.13)	3.48	(.95)
H	COPERNITY SERVICE Information about the impact of the opportunities and services provided by the institution and received by the community (e.g., agricultural extension services, cultural and recreational opportunities, etc.).	3.50	(1.07)	3.83	(.77)
1	Information about the impact of an institution's programs and its faculty, staff, and students (current and former) on the financial health, manpower supply, and attitudes of the community (local, state, or national).	3.84	(.98)	4.16	(.79)
	DEVELOPMENT OF NEW KNOWLEDGE AND ART Information about new knowledge and art forms created, applied, and reorganized as a result of an institution's programs and its faculty, staff, and students (current and former).	3.38	(1.12)	3.32	(1.06)

[N = 235]

[N = 64]



307% 2

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^{*}Mean scores are based on a five point scale with a score of 5 being equal to "Of Extemely High Importance" and a score of 1 equaling "Of No Importance." Standard deviations are in parentheses.

From the pilot test results of the Outcome Measures Identification Study and from the literature about decision making, it is recognized that the special planning and management responsibilities of different decision-making groups give rise to unique information needs. Table 2 illustrates the differing views of the college administrator and state-level respondents decision-making groups concerning the ten outcome information areas in Section I of the questionnaire.

Possibly the most interesting aspect of Table 2 is the alignment of the different decision-making groups with respect to the most important outcome areas. On the one hand, presidents and top-level administrators for academic affairs and student affairs endorsed Outcome Area C (Student Educational Satisfaction) as the most important. On the other hand, the institutional budget and finance administrators lined up with the statewide planners and state legislators in endorsing the Community Impact information area (Outcome Area I) as the most important outcome information area. It should be noted, however, that presidents also had a high mean importance score regarding the Community Impact information area.

The presidents, the academic affairs administrators, and the student affairs administrators groups also agreed about the importance of information in Outcome Areas A, B, and D. The other three decision-making groups shown in Table 2 appear to agree that information in the Community Service area is important (this area was the second most important area for budget and finance administrators and state legislators groups and was the third most important area for the statewide planners group).



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TABLE 2

THE NEAR IMPORTANCE SCORES OF THE DIFFERENT TYPES OF COLLEGE ADMINISTRATOR AND STATE-LEVEL DECISION-WAKER GROUPS FOR EACH OF THE TEN OUTCINE AREAS IN THE OUESTIONNAME

		(H=65) (H=57) (H=51)	(SD) NEAR (SD) NEAR (SD) NEAR (SD) NEAR (SD)	(1.02) 4.28 (1.75) 3.78 (1.13) 3.58 (1.08)	(1.03) 4.40 (.68) 2.90 (1.17) 3.82 (.82) 3.75 (.87)	(.90) 4.52 (.59) 3.07 (1.17) 3.71 (1.06) 3.83 (.72)	(1.08) 4.29 (.77) 2.93 (1.17; 3.68 (.95) 3.67 (.99)	(1.01) 4.46 (.75) 2.67 (1.17) 2.46 (1.06) 3.08 (1.06)	(1.00) 4.19 (.86) 2.55 (.98) 2.78 (.90) 2.92 (1.24)	(1.14) 3.42 (1.14) 2.76 (1.14) 3.53 (.83) 3.25 (1.35)	(1.05) 3.46 (1.02) 3.19 (1.08) 3.62 (.74) 3.63 (.94)	(1.09) 3.72 (.98) 3.91 (.91) 4.20 (.78) 4.09 (.85)	(1.02) 3.29 (1.09) 3.00 (1.29) 3.33 (1.09) (1.09)
OUTCOME AREAS IN THE QUESTIONNAINE*	Presidents Affeirs Affeirs			4.16 (.99) 4.05	4.14 (.75) 4.15	4.35 (.71) 4.20	3.94 (.83) 3.95	3.59 (1.00) 3.33	3.53 (.90) 3.20	3.41 (.96) 3.12	3.52	4.10 (.65) 3.67	3.50 (1.06)
GROUPS FOR EACH OF THE TEN O	CUTCOME AVEAS			A STUDENT MODALEDGE AND SKILLS DEVELOPMENT Information about student understanding, competencies, and attitudes relative to bodies of facts and principles and use of their intellectual and physical abilities.	SIUDENT EDUCATIONAL CAREER DEVELOPMENT Information about student attitudes and success concerning certain academic pursuits (e.g., student educational degree aspirations and attainments).	C STUBERT EDUCATIONAL SATISFACTION Information that indicates the satisfaction of students about the knowledge and skills they have acquired and their progress toward their educational and occupational career objectives.	D STUDENT OCCUPATIONAL CAREER DEVELOPMENT Information about student attitudes and success concerning certain occupational goals and their job performance.	Information about changes in students concerning the growth and maintenance of their personal life (e.g., their ability to adapt to new situations, their self-concept, etc.).	F STUDBNT SOCIAL/CULTURAL DEVELOPMENT Information about student abilities and attitudes in dealing with people and their interest in cultural activities.	6 COMMUNITY EDUCATIONAL DEVELOPMENT Information about the attitudes and success of normatriculating participants concerning their acquisition of knowledge and skills, personal and social development, and occu- putional career goals and performance.	Information about the impact of the opportunities and services, provided by the institution and received by the community (e.g., agricultural extension services, cultural and recreational opportunities, etc.).	I COMMUNITY INPACT. Information about the impact of an institution's programs and its faculty, staff, and students (current and former) on the financial health, manpower supply, and attitudes of the community (local, state, or national).	JOEVELOPMENT OF NEW KNOWLEDGE AND ART Information about new knowledge and art forms created, applied, and reorganized as a result of an institution's programs and its faculty, staff and students (current and

"Mean scores are based on a five point scale with a score of 5 being equal to "Of Extremely High: Importance" and a score of 1 equaling "Of No Importance." Standard deviations are in parentheses.



24

Several other interesting observations can be made from the results shown in Table 2. First, student affairs administrators consistently endorsed Outcome Areas A through F as highly important. Of course, this could be expected, given the student affairs group's concern with student growth and development. A second interesting observation is the relatively low level of interest shown in Outcome Areas E and F by budget and finance administrators, statewide planners, and state legislators. A final interesting aspect of the results shown in Table 2 is that while Outcome Area D was not the top area for any one group, it appears to rank fairly high in terms of importance for all six groups.

Table 3 (pages 15-26) summarizes the responses of the six decision-making groups regarding the second major question of interest in the study--"To what extent do the respondents in these groups feel they need to know a particular outcome measure for their decision-making responsibilities?" While each respondent had three options for indicating the need for a particular outcome measure ("Need To Know," "Would Like To Have, But Not Crucial," and "Do Not Need"), Table 3 shows only the percentage of respondents in each of the six groups endorsing each measure as "Need To Know." It shows also the rank order of each measure based on the percentage of respondents in each group endorsing the measure as "Need To Know." For purposes of rank ordering, all measures with the same percentage endorsement were assigned the same rank number.

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THE PERCENTAGE OF THE DIFFERENT TYPES OF COLLEGE ADMINISTRATOR AND STATE-LEVEL DECISION WAXER GROUPS ENDORSING EACH OUTCOME NEASURE IN THE QUESTIONMAIRE AS "NEED TO KNYM"*

ators 13)	3	(m)	(£)	(33)	€	(88)	(8)	Ê	8	(29)
State Legislators (8 = 13)	ā	36.8	38.5	46.2	25.0	15.4	7.7	5,10	61.5	15.4
Level	8	3	<u>(S2</u>	(33)	(8)	(25)	(28)	(23)	(36)	8
State-Level Planners (N - 51)	ā	8.0	4.9	80.8	30.0	0.25	10.0	43.1	9.3	7.8
Budget & Finance Adm. (N = 57)	3	(87)	Ê	(3)	(70)	(69)	(11)	(99)	(104)	(36)
Finan Finan	ā	5.4	2	22	8.9	9.1	7.1	10.7	1.8	3.6
Student Affairs Adm. (N = 65)	3	(24)	(38)	(RS)	35	(64)	(3112)	8	(38)	(97)
Star Affar	ā	41.5	8	27.7	26.2	21.9	1.5	72.3	31.2	5.2
Academic Affairs Adm. (N = 61)	(R)	(17)	(13)	(20)	(ZI)	(12)	(108)	(6)	(87)	(66)
Acada Affati (8 ·	ş	47.5	49.2	44.3	43.3	43.3	3.3	65.0	13.3	6.7
Presidents (N = 52)	(R)	(33)	(32)	(31)	(49)	(69)	(104)	(7)	(22)	(601)
Pres:	ş	36.5	38.5	40.0	30.8	30.8	3.8	59.6	19.2	9
OUTCONE NEASURES		Student scores on tests that indicate development in their breadth of knowledge about facts and principles across several broad fields of study (e.g., the humanities, the physical sciences, etc.).	Student scores on tests that indicate development in their depth of knowedge concerning facts and principles in the particular fields in which a student elects to study.	Number of students passing certification or licensing exams (e.g., bar exam, CPA, LPN) on the first attempt as a percentage of all students taking the exam.	Student scores on tests that indicate their ability to apply general or specialized knowledge to a problem and to implement a solution.	Student scores on tests that indicate their ability to analyze problems (e.g., the recognition of biased points in an article or speech).	Number of patents awarded and copyrights obtained by students and/or former students within a certain time period.	Student scores on tests that indicate their ability to read, write, speak, and/or listen.	Mumber and percentage of students surveyed who have participated in activities that enhance their communication skills (e.g., debate, encounter groups, etc.).	Student scores on tests that indicate their ability to perform tasks requiring physical dexterity and skill.
Measure		A-1	A-2	A-3	¥-	A-5	A-6	A-7	A-8	A-9

* 2N = Percentage of respondents endorsing a measure as "Need to Know." (R) = Rank of each measure based on the percentage of respondents endorsing it as "Need to Know." (Ranks range from 1 to 112.)



	State Leyfslaters (# = 13)	1	9	(H)	(15)	(2)	8	E	Ē	3	3	
	25.5	8		8.8	7.0	50.0	•	33.3	30.8	3.5	8.5	69.2
	State-Level Planners (N = 51)	3	(100)	E	(et)	(95)	(3)	3	6	(2)	<u> </u>	
	35 5	ā	•	74.5	5	8. 7	11.8	86.3	66.7	76.0	2.7	72.5
	Budget & Finance Adm. (R = 57)	8	(8)	8	8	(36)	E	9	Ê	9	£	5
	Finan	ā	3.6	25.0	19.6	6.6	2.	3.6	42.9	53.6	8. 1	6.83
	Student Affairs Adm. (N = 65)	(R)	(92)	(33)	(28)	(23)	(95)	වි	(10)	(8)	3	ε
	Aff	Ş	16.9	50.8	40.0	40.6	26.2	70.3	88 4.	0.09	8.1	86.2
	Actachemic Affairs Adm. (N = 61)	8	(66)	(15)	(15)	(6)	(\$2)	Ę	8	9	(9)	(2)
	AFF	ā	6.7	48.3	48.3	53.3	16.9	78.3	55.9	61.7	56.7	68.3
	Presidents (N = 52)	8	(88)	(13)	(37)	(21)	(70)	ε	(30)	(2)	(9)	(3)
L	*	ş	9.8	52.9	37.3	9.9	19.6	85.0	56.9	72.5	62.7	70.6
	OUTCONE MEASURES		Number and percentage of students surveyed who have participated in activities that enhance their athletic skills (e.g., intramural and varsity sports).	Number and percentage of students surveyed identifying a certain degree, diploma, or certificate as the highest degree planned.	Number and percentage of students surveyed who have changed majors (lower division, upper division, and/or graduate) within a certain time period.	Number and percentage of students surveyed who are taking non- credit. independent study, or special courses.	Number of awards and citations received per student and/or former student for their academic performance.	Number of students receiving a degree, diplome, or certificate within a certain time period.	Average amount of time it takes a student to earn a degree, diploma, or certificate.	Number of students graduating from the institution after a certain period of time as a percentage of their entering class.	Number and percentage of graduates for the year who transferred from another school.	Number and percentage of students leaving the institution prior to receiving a degree, diploma, or certificate during a particular
	Measure		A-10	ī	8-2	E - B	4 8	φ .c.	8 9 9	B-7	8-8 8-8	6-9 Z r 4

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is:	3	8	3	2	3	Ē	(8)	(57)	(M)	(14)	€
State Legislaturs (R - 13)		•	-			Ĭ			30.8	38.5	
2	ā	83.	23.1	8	X	ä	15.4	16.7	8	8	<u> </u>
ta-Lavel	8	(15)	Ē	8	3	€	8	(A)	8	<u> </u>	8
State .	ā	54. 0	0.98	42.0	8.0	S. 55	15.7	5.9	45.1	18	19.6
57)	3	(X)	(85)	(31)	(8)	E	(37)	(6)	(31)	(X)	(25)
(25 = 15) Finance Add Finance Add	8	8"12	12.7	1.7	**	1.2	17.9	50.0	23.2	19.6	12.5
5. Ab.	(m)	(20)	(43)	(<u>3</u> 2)	E	€	(u)	(86)	(32)	(54)	(E)
Stude Affairs (R = 0	Į,	44.6	23.2	35	49.2	30.8	30.8	10.9	8.	41.5	67.7
s Ad. 61)	(E)	(21)	(69)	(38)	8	\$	(83)	(<u>R</u>)	6	(SZ)	(99)
Academic Affairs Adm. (R = 61)	ä	43.3	8.3	36.7	0.25.0	28.3	26.7	18.3	83.3	6.7	31.7
Presidents (N - 52)	(R)	(18)	(57)	(48)	(3)	3	(6)	(32)	(3)	(02)	88
SE.	5	69.0	5.75	31.4	30.0	34.0	30.C	23.8	46.3	48.1	36.5
OUTCOME NEJSURES		Number of graduates accepted for study in another educational program that will result in a degree, diploma or certificate as a percentage of those applying.	Number of graduates working toward or receiving another edu- cational degree, diploms, or cartificate after a certain time period following graduation as a percentage of their graduating class.	Student and/or former student scores on a scale measuring their perceptions of their educational achievoment.	Student scores on a scale measuring their perceptions about the emount of learning that took place in certain activities sponsored by the institution outside of formal instruction.	Student scores on a scale measuring their interest in continued self-initiated study and inquiry.	Number and percentage of former students survayed who indicate that they would send their children to the same school.	Average amount of alumni gifts within a certain time period after graduation.	Student and/or former student scores on a scale measuring their degree of satisfaction with their overall educational experience.	Student scores on a scale measuring their degree of satisfaction with their knowledge and skills development (e.g., changes in their breadth and depth of knowledge, changes in their communication skills).	Student scores on a scale measuring their degree of satisfaction with their personal development (e.g., changes in their ability to cope with new situations, changes in their self-concept).
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	•	ž.	Presidents	S.	Affelie Ase.	A-Signal	Student Affairs Ade.	A STATE	-4	State-Level	3	200	State Series Britan
OUTCOME MEASURES		;	25		(N = N)		33	=	ล	3	21		12
Student scores on a scale measuring their degree of satisfaction with their social and cultural development (e.g., changes in their ability to get along with others, change; in their appreciation of cultural activities and artifacts).	-		8	8.7.	(£)	49.2	(1)	3	(Q.)	13.7	£ 2		9
Student scores on a scale measuring their degree of satisfaction with their progress in achieving their educational career goals.		48.1	(02)	40.0	(27)	63.1	: 3	17.9	(37)	43.1	(2)	30.8	Ê
Student scores on a scale measuring their degree of satisfaction with their progress in achieving their occupational career goals.	8 5 S	48.1	(20)	45.0	(61)	61.5	(9)	16.1	(8)	SI .0	(16)	83.8	8
Number and percentage of former students (graduates and non- graduates) surveyed who were employed within a certain time period after leaving the institution.		51.9	(16)	46.7	(18)	54.7	(E)	7.3	(51)	8.6	3	8.2	3
Number and percentage of former students (graduates and non- graduates) surveyed who received the job of their first choice.		8.85	(35)	23.0	(36)	46.9	(81)	14.3	(31)	47.1	£	\$ 2	Ê
Average first salary of former students.		17.3	(33)	31.7	(48)	42.2	(22)	10.7	3	47.1	Ê	8,5	3
Distribution of former students (graduates and mongraduates) across income categories within a certain time period after leaving the institution.		17.3	(73)	22.0	(123)	28.1	(99)	14.3	(31)	8 .0	Ê	z.	€
Former student (graduates and nongraduates) scores on a scale measuring their degree of satisfaction with their job performance.	le Bhcs.	27.2	(99)	23.3	(26)	34.9	(1 3)	7.1	(2)	21.6	35	76.7	8
Number of professional occupation enards and citations recaived per former student surveyed.	Ti.	11.5	(82)	5.0	(105)	12.5	(8)	8.9	Ê	8.8	8	2	£
Number and percentage of former students surveyed who are in menagement positions within a certain time period after leaving the institution.	fing	17.3	(79)	6.9	(78)	27.9	3	5.5	(35)	16.0	<u>§</u>	2	3

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(Table 3 continued)

	State Legislaters	2	8	(F)	ĵ.	8	8	8	8	3	1	3
			2	8.8	16.7	8 8	33.3	8.8	2.7	5.0		3
	71 - 51 / 1		Ē	3	59	3	(a)	3	3	8	(100)	(104)
		\$	17.6	4. 2	17.6	9.8	37.3	2.5	9,6	7.6	2.0	2.0
	Finance Age.	3	Ê	ĝ	(85)	(E)	(3)	8	(6)	(<u>a</u>	(104)	(100)
1	į	Ā	\$	3	12.5	33.9	17.9	19.6	**	5.4	ë:	1.6
į	Affairs Ada. (N = 65)	3	3	(21)	8	9	(Z)	3	E	(31)	(101)	(101)
3	Arfatra	ā	21.9	25.0	31.2	61.6	43.1	49.2	33.8	36.9	22	1.1
2.demic	Affeirs Ade. (N = 61)	Ξ	(£)	(36)	(76)	(2)	(%	(2)	8.	(%)	(102)	(69)
	Aff	Ş	15.0	16.7	16.7	SB.3	35.0	6.0	6.8	10.2	5.1	11.9
	residents (N = 52)	(X)	(100)	(96)	(<u>æ</u>	ε	8	(30)	S	38	(36)	(36)
	Į E	Ž.	5.8	9.6	7.7	85.8	28.0	41.2	5.9	6.6	5.9	5.9
	OUTCONE NEASURES		Number of voluntary/involuntary changes in <u>employment</u> within a given time period per former student survayed.	Number of voluntary/involuntary changes in <u>career field</u> within a given time period per former student survayed.	Average first salary expectations of students.	Number and percentage of students surveyed who are aspiring to a particular type of occupational career.	Number and percentage of students and/or former students surveyed who are seeking certain levels of employment.	Number and percentage of former students (graduates and non- graduates) surveyed accepting employment in their major field of study.	Number of students and/or former students reporting certain mental and physical illnesses as a percentage of all the students and/or former students surveyed.	Number and percentage of students surveyed who have participated in special mental health counseling programs within a certain period of time.	Number and percentage of students and/or former students surveyed who belong to or hold office in religious organizations.	Student and/or former student scores on a scale measuring their religious and spiritual attitudes and beliefs.
	Passure T		9	6-0	9-10	<u>-</u>	P-12	D-13	ī	E-2	F-3	1
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•	UNITORE MENSURES	Ž	(R)	Ķ	(R)	ā	(3)	Ş	3	Æ	(R)	Ą	ŝ
E-5	Number and percentage of students and/or former students surveyed who regularly attend religious services.	7.8	(16)	5.1	(201)	6.2	(100	•	(011)	2.0	(104)	7.7	(S
E-6	Student and/or former student scores on a scale measuring their attitudes and beliefs toward new or different ideas and things.	19.6	(20)	11.9	(69)	23.5	(69)	3.6	(96)	13.7	(34)	0	(8)
E-7	Student and/or former student scores on a scale measuring their perceptions about their self-image.	8. 8.	(98)	18.6	(69)	4. .5	(34)	.c.	(87)	13.7	()	0	<u> </u>
<u>.</u>	Number and percentage of students and/or former students survayed who hold membership in social, charitable, political, or civic organizations.	1.9	(101)	6.0	(105)	16.9	(3/2)	3.6	<u>8</u>	2.0	(305)	•	<u> </u>
F-2	Number of awards and citations earned per student and/or former student for social contributions.	0	(601.)	3.3	(301)	13.8 8.	(90)	3.6	9 8	 6.1	ĝ.	•	<u> </u>
F-3	Student and/or former student scores on a scale measuring their perceptions about their ability to live and interact with other people.	15.4	(63)	15.0	(62)	25.3	<u>38</u>	3.6	(36)	11.8	E	•	8
I	Number and percentage of students and/or former students surveyed who have been candidates for positions in local, state, and federal government.	5.8	(100)	8.3	(36)	12.3	(91)	3.6	(96)	5.9	3	0	(33)
F-5	Number and percentage of students and/or former students surveyed who hold office in social, charitable, political, or civic organizations.	1.9	(107)	8.3	(36)	15.4	(98)	5.4	(30)	3.9	(8)	0	E
F-6	Number and percentage of students and/or former students surveyed who have participated in special social development programs (e.g., the Peace Corps, and VISTA).	1.7	(25)	8.5	(36)	13.8	(98)	1.8	(104)	4.0	(97)	0	(E)
F-7	Number and percentage of students and/or former students surveyed who have changed their political party affiliation within a certain period of time.	0	(109)	•	(112) ~(4.6	(10T)	•	(911)	•	(S)	22	<u>§</u>
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(Table 3 continued)

e total	٤	3	(8)	8	32	€	Ē	<u>8</u>	8	(g)	(33)
State Legislators (# • 13)		•	0	•	1.7	z.	30.8	7.7	1.1	0	30.8
State-Level Flamers (N = 51)	3	(38)	(108)	(86)	(100)	8	8	(67)	(55)	(101)	3
State Fleat	ā	•	•	3.9	•	7.8	7.8	15.7	5.9	2.0	63.6
Budget & Finance Adm. (N = 57)	3	(2)	(100)	(011)	(300)	(8)	8	(2)	(£)	(100)	(51)
T. T. S.	ā	ri i	6.	0	1.8	3,6	3.6	578	7.1	1.8	41.1
Student Affedrs Acn. (N = 55)	3	Œ	(105)	8	(101)	(09)	(89)	E)	(74)	(100)	(30)
Affe	Ā	3.1	6.2	10.8	9.	24.6	21.5	20.3	18.7	7.8	39.1
Academic Affairs Adm. (N = 61)	(R)	(111)	(301)	(305)	(106)	(62)	(70)	(28)	(99)	(66)	(31)
	Ş.	1.7	5.0	5.1	3.3	15.0	38.3	13.3	20.0	6.7	39.0
Presidents (N = 52)	(R)	(100)	(300)	(104)	(104)	(24)	(22)	(35)	(79)	(26)	(18)
ž ž	Ğ.	80.	8.8	3.8	3.8	19.2	19.2	1.7	17.3	7.7	49.0
OUTCOME MEASURES		Amount of monetary contributions per student and/or former student made to political, charitable, and social organizations or special inferest groups within a certain time period relative to income	Average amount of time devoted to political, charitable, and social organizations or special interest groups within a certain time period per student and/or former student.	Student and/or former student scores on a scale measuring their political attitudes and beliefs.	Number and percentage of students and/or former students surveyed who have used mechanisms of the political process (e.g., voted in elections, circulated petitions, attended hearings, written letters to their congressman).	Student and/or former student scores on a scale measuring their racial and ethnic attitudes and beliefs.	Student and/or former student scores on a scale measuring their ethical and moral attitudes and beliefs and their concern for human welfare.	Student and/or former student scores on a scale measuring their current and desired social and economic level.	Student and/or former student scores on a scale measuring their interest in and acquaintance with the arts, great books, and other cultural artifacts and activities.	Number of students and/or former students having a personal library of well-known literary works, or pieces of art, as a percentage of all students and/or former students surveyed.	Number of normatriculating participants enrolled in instructional programs as a percentage of the total number of persons in those programs.
Measure		F.8	F-9	F-10	F-11	F-12	F-13	F-14	F-15	F-16	<u>ā</u>



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State Legislators (R = 13)	3	(54)	(31)	(43)	(89)	(89)	(65)	(33)	(65)	(ন)	(3)
State State	Ā	18.2	30.8	23.1	8.3	8.3	7.7	0	15.4	8.04	30.8
Level S1)	(R)	(37)	(23)	(34)	(34)	(28)	(34)	(54)	(44)	(33)	(37)
State-Level Planners (N = 51)	ā	37.3	46.1	39.2	39.2	19.6	39.2	22.0	32.0	35.3	37.3
Budget & Finance Adm. (N = 57)	(R)	(33)	(65)	(m)	(92)	(48)	(45)	(45)	(25)	(£)	(12)
Finance	5	17.9	12.5	7.1	26.8	16.1	16.4	16.4	29.1	56.4	41.8
Student Affairs Adm. (N = 65)	(R)	(48)	(લ)	(57)	(64)	(57)	(64)	(82)	(84)	(32)	(05)
Presidents Affairs Adm. Affair (N = 52) (N = 61)	Ş	28.1	3.4	25.0	21.9	25.0	21.9	14.1	14.5	32.3	27.7
	(R)	(45)	(63)	(55)	(31)	(37)	(44)	(72)	(83)	(13)	(66)
	ā	33.9	22.0	25.4	39.0	35.6	32.8	18.0	33.3	49.2	34.4
	(R)	(%)	(99)	(82)	(18)	(44)	(45)	(02)	(22)	E	(15)
	ā	29.4	21.6	16.0	49.0	33.3	32.7	19.6	46.2	59.6	20.0
OUTCOMF MEASURES		Normatriculating participant scores on a scale measuring their degree of satisfaction with their educational experience.	Number and percentage of normatriculating participants surveyed who received a promotion and/or salary increase as a result of job-related educational experiences.	Scores of normatriculating participants, who are working or have returned to their job, on a scale measuring their satisfaction with their job performance as a result of job-related educational experiences.	Average amount of time per faculty/staff member spent in selected educational activities for their personal educational growth and development while at the institution.	Faculty/staff scores on a scale measuring their perceptions of their educational growth and development as a result of their experiences while at the institution.	Average amount of time faculty/staff and students spent in selected community service activities (e.g., giving professional service and advice outside the institution) within a certain time period.	Estimated replacement value of specific community services received by individuals or organizations that receive the services.	Ratio of total income for community services to total budget for community services.	Number of faculty/staff on leave from the institution to local, state, and national governments in a policy, management, or technical role.	Number of individuals not associated with the institution who were served by a particular support program (e.g., the computer center, the !!brarv, the health services staff, etc.) as a percentage of the total number of individuals served within a certain time period.
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(Table 3 continued)

Measure	OUTCOME MEASURES	Presidents (N = 52)	dents 52)	Academic Affairs Adm. (N = 61)	afc S) Ada.	Student Affairs Ada (N = 65)	5 Adir. 5 Adir. 65)	Budget Finance / (R = 57	Budget Finance Adm. (R = 57)	State-Level Planners (N = 51)	5 E E	State Legislaters (R = 13)	· É
		¥	(R)	ş	(R)	ã	(R)	Ş	(R)	ā	E	ā	E
9	Estimated monetary value of specific community services (e.g., health services, computer services, etc.) offered relative to other comparable services offered elsewhere.	4.1	(52)	19.7	(2)	26.6	(25)	36.4	QZ)	32.0	3	18.2	(35)
H-7	Number and percentage of persons attending selected extranural, cultural, and recreational events who are not students or members of the institution's faculty/staff.	22.7	(45)	16.4	(<u>38</u>	30.8	(E)	16.4	(45)	21.6	(35)	6.3	8
1	Number and percentage of students who are employed in businesses, agencies, and organizations in the community.	8 3.5	(35)	34.4	(62)	4. 6	(02)	23.2	(a)	83.3	(a)	30.8	(E)
1-2	Number and percentage of graduates of a particular graduating class who are employed in-state versus out-of-state.	36.5	(66)	23.0	(65)	32.3	(35)	17.9	(37)	64.7	(10)	26.55 7.55	(F)
1-3	Total dollar amount of goods and services purchased by the institution from a particular sector of the community within a certain time period.	38.5	(35)	14.8	(82)	16.9	(76)	41.1	(13)	17.6	(61)	23.1	(es)
4	Faculty/staff and student expenditures in the community within a certain time period.	32.7	. (45)	14.8	(28)	15.4	(80)	41.1	(13)	11.8	(m)	15.4	(5)
1-5	Estimated dollar amount of the institution's payroll as a per- centage of the estimated total community payroll.	50.0	(31)	23.0	(69)	1.83	(29)	37.5	(18)	23.5	(50)	8.3	(8)
	Amount of land removed from the community tax base as a result of the existence of the institution.	42.3	(82)	14.8	(28)	2.7	(05)	55.4	(2)	17.6	(61)	30.8	(F)
	Employers' scores on a scale measuring their degree of satisfaction with the performance of students and/or former students on the job.	48.0	(54)	37.7	(33)	46.2	(61)	12.5	(83)	41.2	(31)	23.1	(E)
	Amount of private housing owned or rented by students and/or faculty/staff as a percentage of the total housing available in the community.	38.5	(35)	9.8	(83)	29.7	(46)	17.9	(37)	13.7	(74)	1.23	E

State Legislaters (R = 13)	8	8	<u>§</u>	(34)	(F)	(8)	(8)	(E)	Œ.	•	(9
3	Ą	15.4	7.7	38.5	8. H	7.7	15.4	89 97	ñ	22	2.7
~ ~	3	(3)	(83)	(10)	(8)	3	(m)	£	3	(6)	(8)
State-Level Planners (N = 51)	ā	12.0	5. 9.	33.3	3.5	7.8	41.2	1.74	#. W	15.7	3.9
. Adm. 57)	3	(48)	(52)	(38)	(Z1)	(23)	(8)	(CD)	(3)	(11)	(87)
Budget Finance Ada (R = 57)	ā	1.91	25.0	37.5	33.9	1.2	25.0	38.3	 	1.7	5.4
ė,	3	Ê	(96)	(62)	(68)	(98)	(3)	(8)	(52)	(20)	(101)
Academic Student Affairs Ada. Affairs Ada. (N = 61)	Ę		10.8	23.1	21.5	15.4	8.08	0.09	0.0	5.5	4.6
	(R)	(93)	(6)	(65)	(67)	(22)	(65)	(25)	(#)	9	(2)
	2	9.8	11.5	23.0	19.7	18.0	23.3	0.0	32.8	8.5	14.8
	8	(89)	39	(X)	8	ŝ.	(50)	3	(6)	(36)	(109)
Presidents (N = 52)	×	20.8	22.0	38.5	30.8	23.1	48.1	66.7	57.7	13.7	0
	OUTCOME MEASURES	Value of community business properties attributable to institution-related expenditures.	Amount and percentage of the local credit base due to institution-related deposits in community banks.	Extent to which the presence of the institution influences business locating in the community.	Amount and percentage of federal revenue sharing allocation attributable to the institution's presence in the community.	Institution-related contributions as a percentage of total community fund raising (e.g., United Fund program).	Geographic distribution of alumni.	Community attitudes toward the institution (e.g., attitudes toward the institution's contribution to community social/cultural activities and the institution's impact on the amount of crime in the community).	Number of persons from the community employed by the institution.	Distribution of publications by type of publication (e.g., books, monographs, etc.) per student, former student, and/or faculty member within a certain time period.	Number of times a given publication is cited in bibliographies of other authors within a certain time period.
	teasure	6-1	01-1	=	21-1	1-13	1-14	1-15	1-16	1-7	3-2

	State Legislaturs (n = 13)	8	7.7	3	7.7 (36)	23.1	38.5 (745)	33.3 (23)	(ss) 0	(55)	15.4 (18)	23.1
		8	(85)	(£)	(8)	(2)	8	(16)	(68)	(22)	(85)	9
	State-Level Plamers (R = 51)	×	19.6	13.7	15.7	43.1	41.2	51.0	15.7	11.8	19.6	19.6
	Budget Finance Adn: (N = 57)	(R)	(33)	(99)	(15)	(52)	(9)	6	(37)	(51)	(85)	(33)
	T T	ă	14.3	10.7	7.	8.6	53.6	8.	17.9	14.3	12.5	17.9
	Student Affatrs Adm. (N = 65)	(R)	(%)	(101)	(98)	(26)	(69)	(6)	(76)	(107)	(00)	(27)
l	N E E	ā	10.8	7.7	13.8	:: :	21.5	8.8 8.	16.9	9;	75.A	28.2
ì	Academic Affatrs Ada. (N = 61)	(R)	(24)	(62)	(33)	(&)	8	(EL)	(EE)	(51)	(II)	(E
	A A S	ā	42.6	39.3	37.7	39.3	55.7	49.2	37.7	27.9	8. 8.	27.9
, remit o	Presidents (N - 52)	(R)	(65)	(79)	(92)	. (12)	(32)	(2)	(99)	(82)	(69)	(65)
	Z=	ā	1.62	17.3	11.5	37.3	42.3	63.5	21.2	11.5	23.1	13.1
	OUTCOME MEASURES		Number of articles published per faculty/staff member in prestigious journals within a certain time period.	Number of papers presented at professional meetings per student, former student, and/or faculty/staff member within a certain time period.	Number of awards and citations received by students, former students, and/or faculty members for their research and art products within a certain time period.	Average amount of faculty time spent in selected research and art producing activities.	Number of proposals funded for certain purposes (e.g., research versus training) by level of funding as a percentage of all proposals submitted.	Total dollar amount of gifts and/or grants received for certain purposes (e.g., research versus training) as a percentage of total budget within a certain time period.	Number and percentage of faculty/staff surveyed who have created films, taped lectures, etc. within a certain time period.	Number of patents and/or copyrights received per student, former student, and/or faculty member within a certain time period.	Musber of books or monographs written by faculty/staff that are published commercially within a certain time period.	Judgments of peer groups and/or potential beneficiary groups recarding the worth/impact of research project results.
	essure.	•	9-3	1	J-5	3-6	7-0	J-8	J-9	01-C	11-c	3-12

(Table 3 continued)

	SEMISYEM EMOLLOO	Presidents (N = 52)	₩.	Academic Affeirs Ade. (N = 61)	Str Affei (#	Student fairs Adm. (H = 65)	72	Budget Finance Ade. (R = 57)	State-Level Plemers (N = 51)	13 E E	S gal	State Legis laters (R = 13)
		201 (R.)	ă	(R)	ă	(R)	ã	(R)	1) 15	(R)	a	3
J-13	Number and percentage of graduates engaged in research activities.	19.2 (72)	14.8	(82)	1.1	(101)	12.5	(59)	15.7	(67)	15.4	8
41-6 41-1	Number and percentage of faculty/staff and students invitted to participate in professional ametings and conferences.	23.1 (59)	34.4	(39)	13.8	(98)	12.6	(29)	9.8	(36)	0	(66)
3-15	Number and percentage of graduates who have produced or exhibited certain art forms (e.g., paintings, sculptures, plays, etc.).	19.2 (72)	23.0	(65)	9.5	(25)	8.9	(70)	3.3	(8)	0	(36)

Discussion of the results shown in Table 3 is somewhat cumbersome, since
Table 3 summarizes the extent to which each of the 112 measures in Section II
of the questionnaire was endorsed as "Need To Know" by the respondents in the
different decision-making groups. As a result, Table 4 (pages 28-32) has been
developed to present the twenty outcome measures that were given the highest
"Need To Know" rank by each group. Based on this criterion, forty-nine
measures are listed in Table 4. In addition to presenting the percentage of
respondents in each group who endorsed a measure as "Need To Know" (% N) and
the rank of the measure (R), Table 4 shows also the percentage of respondents
who indicated that they "Have Access" to the measure (% A). Possibly the
most significant aspect of Table 4 is that it identifies those measures to
which NCHEMS should assign high priority for the identification and development
of acquisition procedures.

One interesting aspect of Table 4 is that it shows for each outcome measure the number of groups that indicated high need for the measure. For example, three measures in Table 4 were given a high "Need To Know" endorsement by all six groups. They were:

- B-7: Number of students graduating from the institution after a certain period of time as a percentage of their entering class.
- B-8: Number and percentage of graduates for the year who transferred from another school.
- B-9: Number and percentage of students leaving the institution prior to receiving a degree, diploma, or certificate during a particular academic term or year.



TABLE 4

THE TOP THENTY OUTCOME MEASURES ENDORSED AS "NEED TO KNOW" BY THE DIFFERENT TYPES OF COLLEGE ADMINISTRATORS AND STATE-LEVEL DECISION MAKERS"

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a.

A-1 Student scores knowledge about (e.g., the huse A-2 Student scores knowledge concurrent to a student A-3 Number of student page 1 pa	Student scores on tests that indicate development in their breadth of knowledge about facts and principles across several broad fields or study (e.g., the humanities, the physical sciences, etc.). Student scores on tests that indicate development in their depth of knowledge concerning facts and principles in the particular fields in which a student elects to study. Number of students passing certification or licensing enems (e.g., bar taking the exam. CPA, LPM) on first attempt as a percentage of all students	28 (R) 25	XX (R) XX				
	as on tests that indicate development in their breadth of put facts and principles across several broad fields of study umanities, the physical sciences, etc.). Es on tests that indicate development in their depth of neerning facts and principles in the particular fields in ent elects to study. Udents passing certification or licensing exams (e.g., barmy) on first attempt as a percentage of all students			22 (R) 22	20 (R) XA	20 (R) XA	AZ (A) AZ
	is on tests that indicate development in their depth of incerning facts and principles in the particular fields in the lects to study. Indents passing certification or licensing exams (e.g., bar M) on first attempt as a percentage of all students		47.5 (17) 29.5				
	idents passing certification or licensing exams (e.g., bar M) on first attempt as a percentage of all students		49.2 (13) 32.8				38.5 (14) 7.7
taking the exam.			44.3 (20) 36.1			60.8 (13) 50.0	46.2 (11) 46.2
A-7 Student scores on tes speak, and/or 11sten.	ts that indicate their ability to read, write,	59.6 (7) 41.2	(3) 41.7	72.3 (2) 58.5	·		61.5 (8) 7.7
A-8 Number and percentage of activities that enhance encounter groups, etc.).	Number and percentage of students surveyed who have participated in activities that enhance their communication skills (e.g., debate, encounter groups, etc.).						61.5 (3) 23.1
8-1 Number and perdiploms, or ce	Number and percentage of students surveyed identifying a certain degree, diplome, or certificate as the highest degree planned	52.9 (13) 52.0	48.3 (15) 51.7	50.8 (13) 52.3		74.5 (3) 36.0	·
B-2 Number and perdivision, upper	Number and percentage of students surveyed who have changed majors (lower division, upper division, and/or graduate) within a certain time period.		48.3 (15) 36.7			(61) 1.7) 25.55	
B-3 Number and pervindependent stu	Mumber and percentage of students surveyed who are taking moncredit. Independent study, or special courses.	(12)	53.3 (9) 54.2		44.6 (10)	64.7 (10) 51.0	50.0 (10)
8-5 Number of stude a certain time	Number of students receiving a degree, diplome, or cartificate within a certain time period.	(1) 72.0	78.3 (1) 67.8	70.3 (3) 94.4	53.6 (6) 78.2	54.3 (1) 70.6	

(R) - Rank of each measure based on the percentage of respondents endorsing it as "Meed to Know." *XN = Percentage of respondents endorsing a measure as "Need to Ynow." (R) = Rank XA = Percentage of respondents indicating they "Have Access" to a particular measure.

(Table 4 continued)

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			(and the second				
		Presidents	Academic Affairs Adm.	Student Affetrs Adn.	Budget & Finance Ade.	State-Level Planers	Legislators
Heasure 4	OUTCOME MEASURES	(F = 52)	(N = 61)	(H = 65)	(H - 57)	(H = 51)	(R - 13)
		ZH (R) XA	28 (R) X:	20 (5) ZA	23 (R) 24	24 (R) 24	X (X) X
9-8	Average amount of time it takes a student to earn a degree, diploms, or certificate.	56.9 (10) 52.0	55.9 (7) 37.9	55.4 (10)	42.9 (11) 54.5	66.7 (9) 38.0	
8-7	Number of students graduating from the institution after a cerrain period of time as a percentage of their entering class.	72.5 (2) 60.0	61.7 (4) 40.0	60.0 (8) 67.7	53.6 (6) 61.8	0°0) (z) _{0°92}	61.5 (3) 61.5
B-8	Number and percentage of graduates for the year who transferred from another school.	62.7 (6) 76.5	6) 60.0	63.1 (4) 70.8	61.1 (13) 63.6	(12) (12) 47.1	38.5 (14) 38.5
B-3	Number and percentage of students leaving the institution prior to receiving a degree, diplome, or certificate during a particular academic term or year.	70.6 (3) _{78.4}	68.3 (2) G3.3	66.2 (1) 83.1	(3) 20.9	72.5 (4) 43.1	19.2 (t) 61.5
8-10	Number of graduates accepted for study in another educational program that will result in a degree, diplome, or certificate as a percentage of those applying.	49.0 (18) 27.1		44.6 (20) 33.8		5.15 (31)	(a) 8.53 38.5
8-11	Number of graduates working toward or receiving another educational degree, diplome, or certificate after a certain time period feilowing graduation as a percentage of their graduating class.					0.5t (14)	
B-12	Student and/or former student scores on a scale measuring their perceptions of their educational achievement.						3.5 (14)
8-13	Student scores on a scale measuring their perceptions about the amount of learning that took place in certain activities sponsored by the institution outside of formal education.			(15) 4.6			
2-5	Average amount of alumni gifts within a certain time period after graduation.				50.0 (9) 36.4		
3	Student and/or former student scores on a scale measuring their degree of satisfaction with their overall educational experience.		63.3 9)	53.8 (12) 16.8			

(Table 4 continued)

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		Presidents	Academic Affairs Adm.	Student Affairs Adm.	Budget & Finance Adm.	State-Level Planners	State Legis lators
	OUTCOME NEASURES	25 :	(19 = E	£ .	1 21)	(IS - E	13
Student scores on a sc their knowledge and sk and depth of knowledge	Student scores on a scale measuring their degree of satisfaction with their knowledge and skills development (e.g., changes in their breadth and depth of knowledge, changes in their communication skills).	48.1 (20) 7.8		(K)		S S	38.5 (34) 27,
Student scores on a s their personal develoner	Student scores on a scale measuring their degree of satisfaction with their personal development (e.g., changes in their ability to cope with new situations, changes in their self-concept).			(17) 6.3			
Student scores on a scale their social and cultural to get along with others, activities and artifacts)	Student scores on a scale measuring their degree of satisfaction with their social and cultural development (e.g., changes in their ability to get along with others, changes in their appreciation of cultural activities and artifacts).			49.2 (15) 3.1			
Student scores on a their progress in a	Student scores on a scale measuring their degree of satisfaction with their progress in achieving their educational career goals.	48.1 (20)		63.1 (4) 9.2			
Student scores on a their progress in a	Student scores on a scale measuring their degree of satisfaction with their progress in achieving their occupational career goals.	48.1 (20) 9.8	45.0 (19) 3.3	61.5 (6) 6.2		51.0 (16) 12.0	53.8 (8) 0
Number and percent surveyed who were of the institution.	Number and percentage of former students (graduates and nongraduates) surveyed who were employed within a certain time period after leaving the institution.	51.9 (14)	46.7 (18) 30.0	54.7 (11) 39.7		68.6 (7) 28.0	(1) 32.1
Number and percent surveyed who recel	Number and percentage of former students (graduates and nongraduates) surveyed who received the job of their first choice.			46.9 (18) 23.4		47.1 (19) 19.6	46.2 (11) 7.7
Average first salar	Average first salary of former students.					(19) 24.0	38.5 (14)
Distribution of for income categories institution.	Distribution of former students (graduates and nongraduates) across income categories within a certain time period after leaving the institution.					49.0 (18) 20.0	
Number and percent particular type of	Number and percentage of students surveyed who are aspiring to a particular type of occupational career.	55.8 (11) 21.6	58.3 (5) 28.8			68.6 (7) 20.0	

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(Table 4 continued)

Measure	OUTCOME MEASURES	Presidents (N = 52)	Academic Affairs Adm. (N = 61)	Student Affairs Adm. (N = 65)	Budget & Finance Adm. (N = 57)	State-level Planners (H = 51)	State Legislators (N = 13)
		28 (R) 24	29t (R) 55A	24 (R) SA	201 (R) 254	XX (R) XX	XX (R) XX
0-13	Number and percentage of former students (graduates and mongraduates) surveyed accepting employment in their major field of study.			49.2 (15) 10.8		72.5 (4) 21.6	
<u>-</u>	Number of normatriculating participants enrolled in instructional programs as a percentage of the total number of persons in those programs.	18) (18) 70.0	·		41.1 (13) 56.4	68.6 (7) 35.3	
6-5	Average amount of time per faculty/staff member spent in selected educational activities for their personal educational growth and development while at the institution.	49.0 (18) 10.2					
H-4	Number of faculty/staff on leave from the institution to local, state, and national governments in a policy, management, or technical role.	59.6 (7) 72.0	49.2 (13) 73.3		56.4 (4) 70.4		
H-5	Number of individuals not associated with the institution who were served by a particular support program (e.g., the computer center, the library, the health services staff, etc.) as a percentage of the total number of individuals served within a certain time period.	50.0 (15) 34.0			41.8 (12) 35.2		
H-6	Estimated monetary value of specific community services (e.g., health services, computer services, etc.) offered relative to other comparable services offered elsewhere.				36.4 (20) 18.5		
Ξ	Number and percentage of students who are employed in business, agencies, and organizations in the community.			4.6 (20) 18.5			
1-2	Number and percentage of graduates of a particular graduating class who are employed in-state versus out-of-state.					64.7 (10) 15.7	38.5 (14) _{15.4}
[-3	Total dollar amount of goods and services purchased by the institution from a particular sector of the community within a certain time period.				(13) 26.6		
1	Faculty/staff and student expenditures in the community within a certain time period.				(13) 7.7		

(Table 4 continued)

Heasure	OUTCOME MEASURES	Presidents (N = 52)	Academic Affairs Adm. (N = 61)	Student Affairs Adm. (N = 65)	Budget & Finance Adm. (R = 57)	Stata-Level Plamers (R = 51)	State Legislators (N = 13)	
		24 (R) 24	2H (R) 2A	STR (R) STA	24 (R) 24	22 (R) 23	21 (R) 2A	
1-5	Estimated dollar amount of the institution's payroll as a percentage of the estimated total community payroll.	50.5 (15) 51.0			37.5 (18) 32.7			
9-1	Amount of land removed from the community tax base as a result of the existence of the institution.				55.4 (5) 80.0			
1-7	Employers'scores on a scale measuring their degree of satisfaction with the performance of students and/or former students on the job.			46.2 (19) _{13.8}				
II-II	Extent to which the presence of the institution influences businesses locating in the community.		·		37.5 (18) 3.6		38.5 (14)	
1-14	Geographic distribution of alumni.	(20) 55.8						
1-15	Community attitudes toward the institution (e.g., attitudes toward the institution's contribution to community social/cultural activities and the institution's impact on the amount of crime in the community.)	(4) 24.0	•	60.0 (8) 21.9	39.3 (17) 18.2	47.1 (19) 6.0		
1-16	Number of persons from the community employed by the institution.	67.7 (9) 84.6			66.1 (2) 83.6			
7-0	Number of proposals funded for certain purposes (e.g., research versus training) by level of funding as a percentage of all proposals submitted.		55.7 (8) 56.7		53.6 (6) 63.6		3.5. (14)	
8-5	Total dollar amount of gifts and/or grants received for certain purposes (e.g., research versus training) as a percentage of total budget with- in a certain time period.	3.5 (5) 73.1	49.2 (13) 60.0		76.8 (1) 83.6	51.0 (16) 48.0		
u-c	Number of books or monographs written by faculty/staff that are published commercially within a certain time period.		52.5 (m) 57.4					استنب السائح



Five measures were given a high "Need To Know" endorsement by at least five of the six groups:

- B-3: Number and percentage of students surveyed who are taking noncredit, independent study, or special courses.
- B-5: Number of students receiving a degree, diploma, or certificate within a certain time period.
- B-6: Average amount of time it takes a student to earn a degree, diploma, or certificate.
- C-8: Student scores on a scale measuring their degree of satisfaction with their progress in achieving their occupational career goals.
- D-1: Number and percentage of former students (graduates and nongraduates) surveyed who were employed within a certain time period after leaving the institution.

The results in Table 4 reveal also interesting similarities and differences among the six decision-making groups regarding the types of outcome measures they highly endorsed. As one might expect, many measures in Outcome Area B (Student Educational Career Development) were highly endorsed by many of the groups. In fact, with the exception of the budget and finance administrators group, the top ranked measure for each of the groups was in this outcome area. The following identifies some highlights with respect to each of the groups separately:

- 1. Presidents--This group endorsed the widest range of outcome measures. Possibly this is a result of the wide range of decision-making responsibilities encountered by people in this group. Two measures were unique to this group (measures that were endorsed only by the group): G-5 and I-14.
- 2. Academic Affairs Administrators—This group appears to have the greatest need for measures relating to Student Knowledge and Skills Development, Student Educational Career Development, and the Development of New Knowledge and Art. To some extent, this was to be expected, given the planning and management responsibilities of respondents in this group. Two measures were unique to this group: A-1 and J-11.



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- 3. Student Affairs Administrators—Respondents in this group appear to have concentrated on measures in Outcome Area B, C, and D (measures concerning Student Educational Career Development, Student Educational Satisfaction, and Student Occupational Career Development respectively). Of all the groups, this group indicated the greatest need for Educational Satisfaction measures. It is interesting to note that of the five measures unique to this group (B-13, C-5, C-6, I-1, and I-7), four involve student perceptions about their educational progress. This may suggest that Student Affairs Administrators are more receptive to this kind of information.
- 4. Budget and Finance Administrators—As expected, respondents in this group favored those measures that directly link to financial data. This is evidenced by the fact that the top ranked measure for this group was J-8. Further, each of the five measures that were endorsed only by this group concerned the acquisition of financial data: C-2, H-6, I-3, I-4, and I-6.
- 5. State-Level Planners—This group of respondents endorsed many of the same measures that the respondents in the four institutional decision—maker groups endorsed concerning Student Educational Career development. Of all the groups, this group favored the greatest number of measures in Outcome Area D (Student Occupational Career Development). Measures unique to this group included B-11 and D-4.
- 6. State Legislators—This group seemed to concentrate its major attention on measures in Outcome Areas A, B, and D. It should be noted that two measures tied for number one ranking in this group: B-9 and D-1. Also, this group only had one unique measure: B-12.

The percentage of respondents in each group who indicated "access" to each of the top-ranking outcome measures (see % A) also is shown in Table 4. From these results of the "Have Access" question, several interesting observations can be made. First, a majority of respondents in all six groups reported having access to the three outcome measures that were highly endorsed by all the groups as "Need To Know" (measures B-7, B-8, and B-9). Second, a high percentage of the respondents in the four college administrator groups indicated having access to most of the outcome measures related to Outcome Area B (Student Educational Career Development) as well as to outcome measures G-1, H-4, I-14,

I-16, J-7, and J-8. Finally, a low percentage of the respondents in groups who endorsed measures in Outcome Areas C and D (Student Education Satisfaction and Student Occupational Career Development), reported having access to those measures. This was true also for most of the measures that were highly endorsed by one or more groups in Outcome Areas A and I (Student Knowledge and Skills Development and Community Impact).

Some Concluding Comments

As a result of the Higher Education Outcome Measures Identification Study, an array of outcome measures have been identified as having potential utility for the decision-making responsibilities of college administrators and state-level decision makers. It is anticipated that the results of the study should help the members of the different decision-making groups involved in the study:

- 1. Become more aware of those outcome measures endorsed by multiple groups as well as those measures of unique interest to a particular group.
- 2. Identify those outcome measures that appear to be available to a particular group.

Further, the results of the study should aid NCHEMS by:

- 1. Identifying those outcome areas where new measures need to be identified and developed.
- 2. Suggesting a set of outcome measures for which appropriate data acquisition procedures need to be identified and developed.
- 3. Providing a set of outcome measures that can serve as a benchmark for determining the hypotheses and analytic questions that are of interest to different decision makers and the uses of such outcome information in the planning and management context.



35

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36

APPENDIX A

Copies of the Introductory Letters, the Institutional Liaison Guidelines, and the Questionnaire Used in the Study

Appendix A presents in the following order:

- The letter of introduction sent to the designated NCHEMS liaison officer in each institution that participated in the study.
- The guidelines sent to the designated NCHEMS liaison officer distributing the survey questionnaire to the key decision makers in the institution.
- #3 The letter of introduction that accompanied each questionnaire given to the college administrators in the study.
- The questionnaire used in the study to solicit college administrators' responses. (Questionnaires sent to state-level planners and state legislators were identical to the administrators' questionnaires except for certain word changes due to the different job responsibilities of the state-level respondents.)
- #5 The letter of introduction sent to the state-level planners who were asked to participate in the study.
- #6 The letter of introduction sent to the state legislators who were asked to participate in the study.





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April 11, 1974

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Macak ster College KEITH W. STOEHR

Gateway Technical Institute

JACK F. TOLBERT
The Reyman-Media School

MARVIN WACHMAN Temple University

FRED WELLMAN Ulinus Community College Board Dear (name of liaison):

The purpose of this letter is to follow up our recent conversation. We appreciate your willingness to help us carry out our Higher Education Outcomes Measures Identification Study.

In your role as the designated NCHEMS liaison officer in your institution, we would like you to distribute the enclosed questionnaire packets to each of the following persons in your institution:

1. The president (or executive vice-president),

2. A top-level administrator for academic planning,

3. A top-level administrator for student affairs, and

4. A top-level administrator for budget and finance.

Each questionnaire packet contains an introductory letter that explains the purpose of the survey and a survey questionnaire, which contains a list of potential higher education outcome measures. Also, an envelope for returning the questionnaire has been enclosed in each packet.

The completed questionnaires will help us: (1) gain a perspective of the higher education outcome measures different decision makers need in their positions and (2) establish priorities for identifying and developing procedures for obtaining the outcome measures.

I have enclosed a brief description of the survey, the guidelines that will be followed, and a sample copy of the survey questionnaire. I should mention that the results of the survey will be sent to you and each of the persons in your institution who participate in the survey.

Thank you in advance for your help.

Sincerely,

Sidney S. Micek
Director
Outcomes of Postsecondary
Education Project

SSM:bb

Enclosure



GUIDELINES FOR NCHEMS'

HIGHER EDUCATION OUTCOME

MEASURES IDENTIFICATION STUDY

The major purpose of the survey is twofold. First, the survey is an attempt to begin identifying the higher education outcome measures valued by different decision makers involved in and concerned with colleges and universities. Second, the survey is intended to provide us with a better understanding of how best to implement the full-scale survey.

The following components are required if the survey is to be successful in obtaining the responses of the institutionally-based decision makers.

- 1. The designated NCHEMS liaison officer at each institution selected for the study must be willing to assist us in distributing questionnaires to the persons to be surveyed in his institution.
- 2. The responses to the questionnaire should be prompt.
 Our schedule assumes that:
 - a. The NCHEMS liaison officer, once he receives the packet of questionnaires, will distribute the questionnaires to the appropriate persons within a 2-day period.
 - b. The respondent will return his questionnaire directly to NCHEMS (a return envelope will be provided with each questionnaire) within one week after he has received it.
 - c. If any of the questionnaires are not returned to NCHEMS within two weeks after they have been sent to the NCHEMS liaison officer, follow-up question-naires will be mailed to the liaison officer for those persons who did not return the initial questionnaire.

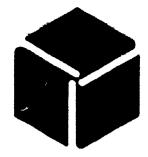


-2-

- 3. The anonymity of the respondents and the institutions will be maintained. Data will be reported only in summary form by type of decision maker and type of institution.
- 4. The questionnaires will require about 30 minutes to complete. This amount of time is necessary because the questionnaire contains a relatively long list of outcome measures that are potentially needed.

Our intention is to distribute the results of the survey in the form of a research report. The designated NCHEMS liaison officer and each of the survey participants will receive a copy of the report. Also, we feel the survey results will not only help us in identifying the outcome measures that are needed, but will have a much wider use and interest.





National Center for Higher Education Management Systems

WESTERN INTERSTATE COMMISSION FOR HIGHER EDUCATION P.O. Drawer P Boulder, Colorado 80302 (303) 449-3333 an equal opportunity employer

BEN LAWRENCE

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FRED WELLMAN
Illinois Junior College Beauty

MARTIN ZEGLER

April 11, 1974

Dear Respondent:

The National Center for Higher Education Management Systems (NCHEMS) is making progress in helping higher education decision makers better understand and use information about the outcomes as well as the costs of higher education institutions and their programs. However, one of our major concerns is identifying the specific outcome information higher education decision makers need for carrying out their planning and management responsibilities. We recognize that while there is likely to be a body of outcome information useful to all decision makers, quite often special and unique information needs will exist because of differences in the responsibilities of individual decision makers.

As an initial step in dealing with this problem NCHEMS is conducting a broad survey of higher education decision makers to identify the specific outcome measures or indicators they feel they need to better carry out their decision-making responsibilities concerning higher education institutions and programs. Participants in the survey include institutionally-based decision makers from community colleges, private and public four-year colleges, and private and public universities. In particular, college presidents, and top-level administrators for academic planning, student affairs, and budget and finance will be surveyed. Also included in the survey will be non-institutionally based decision makers such as state legislators, and directors of state higher education boards and coordinating councils. The results of this survey will help us identify the important outcome measures and thereby begin developing procedures that will help you and other decision makers obtain the outcome information you need.

The purpose of this letter is to ask you for your help in our Higher Education Outcome Measures Identification Study. By completing the enclosed questionnaire you will help us: (1) gain a perspective of the higher education outcome measures that you need in your position, and (2) establish priorities for identifying and developing procedures for obtaining the outcome measures. A summary of the survey will be sent to each respondent.



April 11, 1974 Page Two

Instructions for filling out the enclosed questionnaire are attached to the questionnaire. Please return your completed questionnaire by April 30, 1974.

Thank you in advance for your help.

Much

Sincerely,

Sidney S. Micek

Director

Outcomes of Postsecondary

Education Project

SSM:cg

enclosure



HIGHER EDUCATION OUTCOME MEASURES IDENTIFICATION STUDY



April, 1974



INTRODUCTORY COMMENTS

The purpose of this questionnaire is to obtain your opinion about the outcome measures (or indicators) that you feel would provide the information you need for carrying out your decision-making responsibilities concerning your institution and its programs. For clarification purposes, outcome measures quantitatively express the results achieved or the products generated by the institution or its programs during a given time period. You are asked to keep this definition in mind as you register your responses to the questionnaire.

We would appreciate receiving your completed questionnaire in the enclosed envelope as soon as possible.

You should note that your responses will be kept strictly confidential. Results will be reported only in summary form. We are asking you to write in your name below so we can identify those persons who have returned the questionnaires.

Your	name:		
Your	present	position:	
Your	institui	tion:	



SECTION I

The potential measures or indicators of the outcomes of higher education institutions and their programs that are listed in this questionnaire have been organized into ten outcome areas or categories. However, before identifying the extent to which you need each outcome measure for carrying out your decision-making responsibilities, we would like you to indicate the extent to which you feel it is important for you to have information relative to the ten areas into which the outcome measures have been organized.

Example Response:

In terms of <u>your</u> decision-making responsibilities concerning higher education institutions and their programs, how important is it for you to have information regarding each of the following outcome areas? Please check (/) your answer.	of Low Jance	Importance	of High IX	OF EXTENDOR CANCEL	Themely mice
OUTCOME AREA A: STUDENT KNOWLEDGE AND SKILLS DEVELOPMENT					7
 Information about student understanding, competencies, and attitudes relative to bodies of facts and principles and use of their intellectual and physical abilities. 					

BEGIN ON THE BACK SIDE OF THIS PAGE

In terms of <u>your</u> decision-making responsibilities concerning higher education institutions and their programs, how important is it for you to have information regarding each of the following outcome areas? Please check (/) your answer.	5 \ 5	Of reality	of High Ly	High Taportance	1
OUTCOME AREA A: STUDENT KNOWLEDGE AND SKILLS DEVELOPMENT		,			
 Information about student understanding, competencies, and attitudes relative to bodies of facts and principles and use of their intellectual and physical abilities. 					
OUTCOME AREA B: STUDENT EDUCATIONAL CAREER DEVELOPMENT					
 Information about student attitudes and success concerning certain academic pursuits (e.g., student educational degree aspirations and attainments). 					
OUTCOME AREA C: STUDENT EDUCATION SATISFACTION					
 Information that indicates the satisfaction of students about the knowledge and skills they have acquired and their progress toward their aducation and occupation career objectives. 					
OUTCOME AREA D: STUDENT OCCUPATIONAL CAREER DEVELOPMENT		<u>† </u>			
- Information about student attitudes and success concerning certain occupational goals and their job performance.					
OUTCOME AREA E: STUDENT PERSONAL DEVELOPMENT					
 Information about changes in students concerning the growth and maintenance of their personal life (e.g., their ability to adapt to new situations, their self-concept, etc.). 					
OUTCOME AREA F: STUDENT SOCIAL/CULTURAL DEVELOPMENT					
 Information about student abilities and attitudes in dealing with people and their interest in cultural activities. 					
OUTCOME AREA G: COMMUNITY EDUCATIONAL DEVELOPMENT					
 Information about the attitudes and success of nonmatriculating participants* concerning their acquisition of knowledge and skills, personal and social development, and occupational career goals and performance. 					
OUTCOME AREA K: COMMUNITY SERVICE					
 Information about the impact of the opportunities and services pro- vided by the institution and received by the community (e.g., agricultural extension services, cultural and recreational opportunities, etc.). 					
OUTCOME AREA I: COMMUNITY IMPACT					
 Information about the impact of an institution's programs and its faculty, staff and students (current and former) on the financial health, manpower supply, and attitudes of the community (local, state, or national). 					
OUTCOME AREA J: DEVELOPMENT OF NEW KNOWLEDGE AND ART					
 Information about new knowledge and art forms created, applied, and reorganized as a result of an institution's programs and its faculty, staff and students (current and former). 					
Allowed the Control of the Control o			***		·

*Nonmatriculating participants are those persons participating in the instructional programs of the institution (credit and non-credit) but who are not seeking a degree, diploma, or certificate. This includes the faculty/staff in the institution.



SECTION II

This section presents a list of potential outcome measures of a vareity of higher education outcomes that have been organized into the ten outcome areas listed in the previous section.

For each outcome measure listed, you are to answer two questions: (A) To what extent do you feel that measure would help provide the information you need for making decisions concerning your institution and its programs? and (B) Do you currently have access to that measure?

While the list of outcome measures in this section has been developed through the input of a wide range of higher education practitioners and researchers, it is not claimed to be exhaustive. As a result, space has been provided following each area of outcome measures for you to write in any additional outcome measures you feel would provide useful information.

Guestion A.

Question R.

Example Response:

		do you	t exte need mess	this	Do you access outcome	Hu have is to t me mea ik one)	his sure?		
	For each outcome measure listed below. Please answer questions A and B in terms of your decisir (ing responsibilities relative to your institution and programs.	to not new	house not cross	He co know	rount of the	Yes	75	Not sure	
1.	Number and percentage of the graduates surveyed securing a job within a certain time period.				<u>/</u>			<u> </u>	
2.	Number of research publications per faculty member within a certain time period.			¥		¥			

BEGIN ON THE NEXT PAGE

		Question To what do you outcome (check	need meas	this	Do you access	tion #: bu have s to t ome mea ck one)	his sure?	6
	For each outcome measure listed below, please answer questions A and B in terms of <u>your</u> decision-making responsibilities relative to your institution and its programs.	1 1 1 1 1 1	Monitor crue	Title to know	would so the	Š	3	Hot Sure
<u>ont</u>	COME AREA A: STUDENT KNOWLEDGE AND SKILLS DEVELOPMENT OUTCOME MEASURES			\times			\times	
1.	Student scores on tests that indicate development in their <u>breadth</u> of knowledge about facts and principles across several broad fields of study (e.g., the humanities, the physical sciences, etc.).			anguera,		-		
2.	Student scores on tests that indicate development in their <u>depth</u> of know-ledge concerning facts and principles in the particular fields in which a student elects to study.	-		an againm		**		
3.	Number of students passing certification or licensing exams (e.g., bar exam, CPA, LPN) on the first attempt as a percentage of all students taking the exam.		ļ					
4.	Student scores on tests that indicate their ability to apply general or specialized knowledge to a problem and to implement a solution.		142400					
5.	Student scores on tests that indicate their ability to <u>analyze</u> problems (e.g., the recognition of biased points in an article or speech).							
6.	Number of patents awarded and copyr shts obtained by students and/or former students within a certain time period.							
7.	Student scores on tests that indicate their ability to read, write, speak, and/or listen.							
8.	Number and percentage of students surveyed who have participated in activities that enhance their communication skills (e.g., debate, encounter groups, etc.).							
9.	Student scores on tests that indicate their ability to perform tasks requiring physical dexterity and skill.							
10.	Number and percentage of students surveyed who have participated in activities that enhance their athletic skills (e.g., intramural and varsity sports).			-			·	

In the spaces below, please write in any additional outcome measures concerning STUDENT KNOWLEDGE AND SKILLS DEVELOPMENT that you feel would provide you with the information you need.



		To whi		this	Do y acce outc	tion B: ou have as to 1 ome mea ck one	his sure?	8
	For each outcome measure listed below, please answer questions A and B in terms of <u>your</u> decision-making responsibilities relative to your institution and its programs.	Do not new	. 18	Tike to know	word to know	yes	NO	Hot sure
<u>out</u>	COME AREA B: STUDENT EDUCATIONAL CAREER DEVELOPMENT OUTCOME MEASURES			×			×	
1.	Number and percentage of students surveyed identifying a certain degree, diploma, or certificate as the highest degree planned.							
2.	Number and percentage of students surveyed who have changed majors (lower division, upper division, and/or graduate) within a certain time period.							
3.	Number and percentage of students surveyed who are taking noncredit, independent study, or special courses.							
4.	Number of awards and citations received per student and/or former student for their academic performance.							
5.	Number of students receiving a degree, diploma, and certificate within a certain time period.							
6.	Average amount of time it takes a student to earn a degree, diploma, or certificate.							
7.	Number of students graduating from the institution after a certain period of time as a percentage of their entering class.							
8.	Number and percentage of graduates for the year who transferred from another school.							
9.	Number and percentage of students leaving the institution prior to receiving a degree, diploma or certificate during a particular academic term or year.	ng						
10.	Number of graduates accepted for study in another educational program that will result in a degree, diploma or certificate as a percentage of those applying.							
							لسبيل	

		Question A: To what extent do you need this outcome measure? (check one)		o what extent do you have access to the outcome measure? (check one)			his Sure?			
	For each outcome measure listed below, please answer questions A and B in terms of <u>your</u> decision-making responsibilities relative to your institution and its programs.	Do not no	but not	14 14ke to know	word to know	Yes	10	Not sure		
11.	Number of graduates working toward or receiving another educational degree diploma, or certificate after a certain time period following graduation as a percentage of their graduating class.					Separation and the				
12.	Student and/or former student scores on a scale measuring their perceptions of their educational achievement.	3					 -			
13.	Student scores on a scale measuring their perceptions about the amount of learning that took place in certain activities sponsored by the institution outside of formal instruction.	1								
14.	Student scores on a scale measuring their interest in continued self-initiated study and inquiry.									
In the spaces below, please write in any additional outcome measures concerning STUDENT EDUCATIONAL CAREER DEVELOPMENT that you feel would provide you with the information you need.										
				<u> </u>						

	To what do you outcome	what extent you need this come measure? meck one)		what extent you need this tcome measure? heck one)		what extent you need this tcome measure? heck one)		Do yo acces outco (chec	ion B: u have s to the me meas k one)		10
	For each outcome measure listed below, please answer questions A and B in terms of your decision-making responsibilities relative to your institution and its programs.	House of to know	Hike to know	MOUNT OF DOOR	Yes	110	unk sure				
OUTC	OME AREA C:										
	STUDENT EDUCATIONAL SATISFACTION OUTCOME MEASURES				/						
1.	Number and percentage of former students surveyed who indicate that they would send their children to the same school.										
	A second										
2.	Average amount of alumni gifts within a certain time period after graduation.										
3.	Student and/or former student scores on a scale measuring their degree of satisfaction with their overall educational experience.										
						+					
4.	Student scores on a scale measuring their degree of satisfaction with their knowledge and skills development (e.g., changes in their breadth and depth of knowledge, changes in their communication skills).	-									
5.	Student scores on a scale measuring their degree of satisfaction with their personal development (e.g., changes in their ability to cope with new situations, c'inges in their self-concept).										
			_								
6.	Student scores on a scale measuring their degree of satisfaction with their social and cultural development (e.g., changes in their ability to get along with others, changes in their appreciation of cultural activities and artifacts).				-						
7.	Student scores on a scale measuring their degree of satisfaction with their progress in achieving their educational career goals.										
8.	Student scores on a scale measuring their degree of satisfaction with their progress in achieving their occupational career goals.										

In the spaces below, please write in any additional outcome measures concerning STUDENT EDUCATIONAL SATISFACTION that you feel would provide you with the information you need.	11



To windo you country	tion A: hat extent you need this come measure? yok one)		Do you	ion B: bu have s to ti me mea: k one)	sure?	12
For each outcome measure listed below, please answer questions A and B in terms of <u>your</u> decision-making responsibilities relative to your institution and its programs.	was not creation unos	THE CO LINGUIS	wound of the	16%	10	ing surre
OUTCOME AREA D: STUDENT OCCUPATIONAL CAREER DEVELOPMENT OUTCOME MEASURES		\times			\times	
 Number and percentage of former students (graduates and nongraduates) surveyed who were employed within a certain time period after leaving the insti- tution. 					***	
2. Number and percentage of former students (graduates and nongraduates) surveyed who received the job G. their first choice.						
3. Average first salary of former students.					404000	
 Distribution of former students (graduates and nongraduates) across income categories within a certain time period after leaving the insti- tution. 						
 Former students (graduates and nongraduates) scores on a scale measuring their degree of satisfaction with their job performance. 						
6. Number of professional occupation awards and citations received per former student surveyed.						
 Number and percentage of former students surveyed who are in management positions within a certain time period after leaving the institution. 						
8. Number of voluntary/involuntary changes in <u>employment</u> within a given time period per former student surveyed.						
9. Number of voluntary/involuntary changes in <u>career field</u> within a given time period per former student surveyed.						
10. Average first salary expectations of students.						

	To do do out (ch	You come neck	extended meas	this ure?	Do y acce outc (che	tion B: ou have ss to to ome mea ck one)	his sure?	not sure		
11.	Number and percentage of students surveyed who are aspiring to a particular type of occupational career.									
12.	Number and percentage of students and/or former students surveyed who are seeking certain levels of employment.									
13.	Number and percentage of former students (graduates and nongraduates) surveyed accepting employment in their major field of study.									
In the spaces below, please write in any additional outcome measures concerning STUDENT OCCUPATIONAL CAREER DEVELOPMENT that you feel would provide you with the information you need.										
							•			
		•								



To what do you outcome (check	tion A: mat extent ou need this ome measure? ck one)		Question B: Do you have access to this outcome measure? (check one)		14
For each outcome measure listed below, please answer questions A and B in terms of <u>your</u> decision-making responsibilities relative to your institution and its programs.	would like Cial but not crucial but not crucial	Moust on Parki	S S	5	work surre
OUTCOME AREA E: STUDENT PERSONAL DEVELOPMENT OUTCOME MEASURES				\times	
 Number of students and/or former students reporting certain mental and physical illnesses as a percentage of all the students and/or former students surveyed. 					
 Number and percentage of students surveyed who have participated in special mental health counseling programs within a certain period of time. 					
 Number and percentage of students and/or former students surveyed who belong to or hold office in religious organizations. 					
 Student and/or former student scores on a scale measuring their religious and spiritual attitudes and beliefs. 					
 Number and percentage of students and/or former students surveyed who regularly attend religious services. 			_		
6. Student and/or former student scores on a scale measuring their attitudes and beliefs toward new or different ideas and things.					
 Student and/or former student scores on a scale measuring their per- ceptions about their self-image. 					
In the spaces below, please write in any additional outcome measures concerning DEVELOPMENT that you feel would provide you with the information you need.	STUDENT	PERSON	AL		

	do you coute (chec	tion A: nat extent ou need this ome measure? ck one)		Question B: Do you have access to this outcome measure? (check one)		his sure?	15	
	For each outcome measure listed below, please answer questions A and B in terms of <u>your</u> decision-making responsibilities relative to your institution and its programs.		Id like to know	word to know	168	. 1 6	Mor surre	
oute	COME AREA F: STUDENT SOCIAL/CULTURAL DEVELOPMENT OUTCOME MEASURES		×			\times		
1.	Number and percentage of students and/or former students surveyed who hold membership in social, charitable, political, or civic organizations.							
2.	Number of awards and citations earned per student and/or former student for social contributions.							
3.	Student and/or former student scores on a scale measuring their perceptions about their ability to live and interact with other people.		_					
4.	Number and percentage of students and/or former students surveyed who have been candidates for positions in local, state, and federal government.							
5.	Number and percentage of students and/or former students surveyed who hold office in social, charitable, political, or civic organizations.				mate.			
6.	Number and percentage of students and/or former students surveyed who have participated in special social development programs (e.g., the Peace Corps, and VISTA).							
7.	Number and percentage of students and/or former students surveyed who have changed their political party affiliation within a certain period of time.							
8.	Amount of monetary contributions per student and/or former student made to political, charitable, and social organizations or special interest groups within a certain time period relative to income category.			ı,				
9.	Average amount of time devoted to political, charitable, and social organizations or special interest groups within a certain time period per student and/or former student.							
10.	Student and/or former student scores on a scale measuring their political attitudes and beliefs.				****			



		For each outcome measure listed below, please enswer questions	Question A: To what extent do you need this outcome measure? (check one)			Do y acce outc	tion B: ou have ss to 1 ome mea ck one)	his sure?	16	
	For each outcome measure listed below, pleas A and B in terms of <u>your</u> decision-making res relative to your institution and its program	ponsibilities	to not me	April 100 CL.	Land Colonial Colonia	MOUNT OF PORTS	Yes	8	Mr. sure	
11	Number and percentage of students and/or form have used mechanisms of the political process circulated petitions, attended hearings, write congressman).	(a.g., voted in elections,	•	-						
12	Student and/or former student scores on a scal and ethnic attitudes and beliefs.	le measuring their racial								
13	Student and/or former student scores on a scal and moral attitudes and beliefs and their cond	le measuring their ethical cern for human welfare.								
14	Student and/or former student scores on a scal and desired social and economic level.	e measuring their current								
15	Student and/or former student scores on a scalin and acquaintance with the arts, great books facts and activities.	e measuring their interest , and other cultural arti-								
16	Number of students and/or former students having well-known literary works or pieces of art as and/or former students surveyed.	ng a personal library of a percentage of all studen	ts		ļ			•		
In the spaces below, please write in any additional outcome measures concerning STUDENT SOCIAL/CULTURAL DEVELOPMENT that you feel would provide you with the information you need.										
					_					

	For each sutcome recovery Market halory misses are recovery successful.	Question A: To what extent do you need this outcome measure? (check one)		acces outco	tion 8: bu have as to t ome mea ck one)	his sure?	17			
	A and B in terms of <u>your</u> decision-making responsibilities relative to your institution and its programs.	but need to know	Tike to know	wound to pure	162	70	More source			
<u>outco</u>	ME AREA G: COMMUNITY EDUCATIONAL DEVELOPMENT OUTCOME MEASURES		\times			X				
1.	Number of nonmatriculating participants* enrolled in instructional programs as a percentage of the total number of persons in those programs.									
2.	Nonmatriculating participant* scores on a scale measuring their degree of satisfaction with their educational experience.									
3.	Number and percentage of nonmatriculating participants* surveyed who received a promotion and/or salary increase as a result of job-related educational experiences.				1					
4.	Scores of nonmatriculating participants*, who are working or have returned to their job, on a scale measuring their satisfaction with their job performance as a result of job-related educational experiences.									
5.	Average amount of time per faculty/staff member spent in selected educational activities for their personal educational growth and development while at the institution.									
6.	Faculty/staff scores on a scale measuring their perceptions of their educational growth and development as a result of their experiences while at the institution.									
	In the spaces below, please write in any additional outcome measures concerning COMMUNITY EDUCATIONAL DEVELOPMENT that you feel would provide you with the outcome information you need.									
						•				

^{*} Nonmatriculating participants are those persons participating in the instructional programs of the institution (credit and noncredit) but who are not seeking a degree, diploma, or cartificate. This includes the faculty/staff in the institution.



	To with the second seco	at extent u need this me measure?		do you need the outcome measure (check one)				his sure?	18	
	For each outcome measure listed below, please answer questions A and B in terms of <u>your</u> decision-making responsibilities relative to your institution and its programs.	Mar was co successive	I like to know	mont of plans	Ž.	3	Mor. sure			
OUTC	ONE AREA H: COMMUNITY SERVICE OUTCOME MEASURES		×			\times				
1.	Average amount of time faculty/staff and students spent in selected community service activities (e.g., giving professional service and advice outside time institution) within a certain time period.	_								
2.	Estimated replacement value of specific community services received by individuals or organizations that receive the services.									
3.	Ratio of total income for community services to total budget for community services.									
4.	Number of fac: .taff on leave from the institution to local, state, and national governments in a policy, management, or technical role.									
5.	Number of individuals not associated with the institution who were served by a particular support program (e.g., the computer center, the library, the health services staff, etc.) as a percentage of the total number of individuals served within a certain time period.	_								
6.	Estimated monetary value of specific community services (e.g., health services, computer services, etc.) offered relative to other comparable services offered elsewhere.	andinana.			-					
7.	Number and percentage of persons attending selected extramural, cultural, and recreational events who are not students or members of the institution's faculty/staff.		•							
	In the spaces below, please write in any additional outcome measures concernin that you feel would provide you with the information you need.	g COMMU	NITY S	ERVICE						
						,				

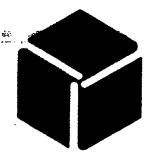


	For each outcome measure listed below, please answer questions			Do y acce outc	tion B ou have ss to i ome mea ck one)	his Sure?	19
	, , , , , , , , , , , , , , , , , , ,	Park Lock Co.	THE CO THE	would sty bear	Š	3	Mor source
OUTCO	ME AREA I: COMMUNITY IMPACT OUTCOME MEASURES		×			\times	
1.	Number and percentage of students who are employed in businesses, agencies and organizations in the community.						
2.	Number and percentage of graduates of a particular graduating class who are employed in-state versus out-of-state.						
3.	Total dollar amount of goods and services purchased by the institution from a particular sector of the community within a certain time period.						
4.	Faculty/staff and student expenditures in the community within a certain time period.						
5.	Estimated dollar amount of the institution's payroll as a percentage of the estimated total community payroll.						
6.	Amount of land removed from the community tax base as a result of the existence of the institution.						
7.	Employers scores on a scale measuring their degree of satisfaction with the performance of students and/or former students on the job.		***	******			
8.	Amount of private housing owned or rented by students and/or faculty/staff as a percentage of the total housing available in the community.						
9.	Value of community business properties attributable to institution-related experditures.						
10.	Amount and percentage of the local credit base due to institution-related deposits in community banks.						

		outcom (check	need meas one)	this sure?	Do y	tion B: ou have ss to t ome mea ck one)	his sure?	20
	For each outcome measure listed below, please answer questions A and B in terms of <u>your</u> decision-making responsibilities relative to your institution and its programs.	Do not ne	10	in like to know	moust sty forms	ŢĠ.	10	Not sur
11.	Extent to which the presence of the institution influences businesses locating in the community.							
12.	Amount and percentage of federal revenue sharing allocation attributable to the institution's presence in the community.							
13.	Institution-related contributions as a percentage of total community fund raising (e.g., United Fund program).							
14.	Geographic distribution of alumni.							
15.	Community attitudes toward the institution (e.g., attitudes toward the institution's contribution to community social/cultural activities and the institution's impact on the amount of crime in the community).							
16.	Number of persons from the community employed by the institution.					No. of Control		
	In the spaces below, please write in any additional outcome measures contable that you feel would provide you with the information you need.	cerning	COMM	UNITY	IMPACT			
								
								_

		Question To what endo you need outcome ma (check one	d this!	Do y acce outc	tion B ou have ss to ome mea ck one	this sure?	21
	For each outcome measure listed below, please answer questions A and B in terms of <u>your</u> decision-making responsibilities relative to jour institution and its programs.	On not need to know	18.8	weed to know	is.	30	Not sure
OUTC	ONE AREA J: DEVELOPMENT OF NEW KNOWLEDGE AND ART OUTCOME MEASURES		×			×	
1.	Distribution of publications by type of publication (e.g., books, monographs, etc.) per student, former student, and/or faculty member within a certain time period.				-		
2.	Number of times a given publication is cited in bibliographies of other authors within a certain time period.						
3.	Number of articles published per faculty/staff member in prestigious journals within a certain time period.				-		
4.	Number of papers presented at professional meetings per student, former student, and/or faculty/staff member within a certain time period.						
5.	Number of awards and citations received by students, former students, and/or faculty members for their research and art products within a certain time period.						
6.	Average amount of faculty time spent in selected research and art producing activities.						
7.	Number of proposals funded for certain purposes (e.g., research versus training) by level of funding as a percentage of all proposals submitted.						
8.	Total dollar amount of gifts and/or grants received for certain purposes (e.g., research versus training) as a percentage of total budget within a certain time period.						
9.	Number and percentage of faculty/staff surveyed who have created films, taped lectures, etc. within a certain time period.						
10.	Number of patents and/or copyrights received per student, former student, and/or faculty member within a certain time period.						

	To do ,	tion A: hat extended ou need come meas ck one)	this sure?	Do ye acce: outc	tion B: ou have ss to t ome mea ck one)	his sure?	22
	For each outcome measure listed below, please answer questions	E SE		Many or part	163	10	Mr. Sure
11.	Number of books or monographs written by faculty/staff that are published commercially within a certain time period.						
12.	Judgments of peer groups and/or potential beneficiary groups regarding the worth/impact of research project results.		_			-	
13.	Number and percentage of graduates engaged in research activities.					-	
14.	Number and percentage of faculty/staff and students <u>invited</u> to participate in professional meetings and conferences.	-					
15.	Number and percentage of graduates who have produced or exhibited certain art forms (e.g., paintings, sculptures, plays, etc.).	-					
	In the spaces below, please write in any additional outcome measures concerning KNONLEDGE AND ART that you feel would provide you with the information you need to be a second or second o	ng DEVEL ad.	OPMENT	OF NE	W		
			·		-		
							



National Center for Higher Education Management Systems

WESTERN INTERSTATE COMMISSION FOR HIGHER EDUCATION P.O. Drawer P Boulder, Colorado 80302 (303) 449-3333 an equal opportunity employer

BEN LAWRENCE Director April 11, 1974

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FRED WELLMAN Illinon Community College Board Dear (name of state-level planner):

The National Center for Higher Education Management Systems (NCHEMS) is making progress in helping higher education decision makers better understand and use information about the outcomes as well as the costs of higher education institutions and their programs. However, one of our major concerns is identifying the specific outcome information higher education decision makers need for carrying out their planning and management responsibilities. We recognize that while there is likely to be a body of outcome information useful to all decision makers, quite often special and unique information needs will exist because of differences in the responsibilities of individual decision makers.

As an initial step in dealing with this problem, NCHEMS is conducting a broad survey of higher education decision makers to identify the specific outcome measures or indicators they feel they need to better carry out their decision-making responsibilities concerning higher education institutions and programs. Participants in the survey include institutionally-based decision makers from community colleges, private and public four-year colleges, and private and public universities. In particular, college presidents, and top-level administrators for academic planning, student affairs, and budget and finance will be surveyed. Also included in the survey are noninstitutionally-based decision makers such as state legislators and directors of state higher education boards and coordinating councils. The results of this survey will help us identify the important outcome measures and thereby begin developing procedures that will help you and other decision makers obtain the outcome information you need.

The purpose of this letter is to ask you for your help in the Higher Education Outcome Measures Identification Study. We would like you or a member of your professional staff to complete the enclosed questionnaire. The responses to the completed questionnaire will help us: (1) gain a perspective of the higher education outcome measures that state-level planners and decision makers need in discharging their responsibilities and (2) establish priorities for identifying and developing procedures for obtaining needed outcome measures. For your information, a copy of the summary report of the survey will be sent to you.



April 11, 1974 Page Two

Instructions for filling out the enclosed questionnaire are attached to the questionnaire. Please return your completed questionnaire in the enclosed envelope by April 26, 1974.

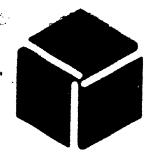
Thank you in advance for your help.

Sincerely,

Sidney S. Micek Director Outcomes of Postsecondary Education Project

Enclosure

SSM: bb



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KEITH W. STOPHR Gateway Technical Institute JACK F. TOLBERT The Berman-Media School

MARVIN WACHMAN
Temple University

FRED WELLMAN Illinois Community College Board April 11, 1974

Dear (name of state legislator):

The National Center for Higher Education Management Systems (NCHEMS) is making progress in helping higher education decision makers better understand and use information about the outcomes as well as the costs of higher education institutions and their programs. However, one of our major concerns is identifying the specific outcome information higher education decision makers need for carrying out their planning and management responsibilities. We recognize that while there is likely to be a body of outcome information useful to all decision makers, quite often special and unique information needs will exist because of differences in the responsibilities of individual decision makers.

As an initial step in dealing with this problem, NCHEMS is conducting a broad survey of higher education decision makers to identify the specific outcome measures or indicators they feel they need to better carry out their decision-making responsibilities concerning higher education institutions and programs. Participants in the survey include institutionally-based decision makers from community colleges, private and public four-year colleges, and private and public universities. In particular, college presidents, and top-level administrators for academic planning, student affairs, and budget and finance will be surveyed. Also included in the survey are noninstitutionally-based decision makers such as state legislators and directors of state higher education boards and coordinating councils. The results of this survey will help us identify the important outcome measures and thereby begin developing procedures that will help you and other decision makers obtain the outcome information you need.

The purpose of this letter is to ask you for your help in the Higher Education Outcome Measures Identification Study. By completing the enclosed questionnaire you will help us: (1) gain a perspective of the higher education outcome measures that you need in your state level position and (2) establish priorities for identifying and developing procedures for obtaining needed outcome measures. The results of the survey will be sent to you.



April 11, 1974 Page Two

Instructions for filling out the enclosed questionnaire are attached to the questionnaire. Please return your completed questionnaire in the enclosed envelope by April 26, 1974.

Thank you in advance for your help.

Sincerely,

Sidney S. Micek Director Outcomes of Postsecondary Education Project

Enclosure

SSM: bb



APPENDIX B

Institutions Involved in the Study



The institutions, from which the college administrators' groups were obtained in the study, were selected from the group of institutions that participate in the National Center for Higher Education Management Systems' cooperative program. At the time the study was initiated, institutions participated in the Center at one of four levels.* The four were:

Level I: Observers

Participation at Level I involves a minimum commitment. Participants at this level will be considered interested observers.

Level II

This level marks the beginning of active participation in the Center. Participants at this level are considered potential users of, but not contributors to, the development of the products of the Center.

Level III

This level of participation implies active participation as both user of and contributor to the development of the products of the program.

Level IV

This level of participation is the same as for Level III with an additional commitment to the general study of cost benefit analysis in higher education, and specifically to the identification and measurement of the outputs of higher education.

It should be mentioned that these levels were designed to provide a rough rule of thumb for facilitating discussion and understanding of the role of institutions and agencies in the Center's cooperative program.



^{*}According to NCHEMS' new policies and procedures, those institutions or agencies that wish to become actively involved in the Center through use of its products and through contributions to the program may become participants in the program. No longer are institutions or agencies categorized by level of participation.

The following institutions participated in the study:

Community Colleges Levels I and II

Central YMCA Community College County College of Morris Essex County College Genessee Community College Illinois Eastern Junior College Indian River Junior College Milwaukee Area Technical College Northeastern Junior College Parkland College St. Johns River Junior College

Community Colleges Levels III and IV

Anoka-Ramsey Community College
Community College of Philadelphia
El Paso Community College
Manatee Junior College
Normandale Community College
North Dakota State School of Science
Northampton County Area Community College
Schoolcraft College
Tallahassee Junior College
Worthington Community College

Private Four-Year Colleges Levels I and II

Augustana College
Berry College
Colorado Women's College
College of Sairt Elizabeth
Chapman College
College of the Holy Name
Menlo College
New England College
Ricks College
Stevens Institute of Technology

Private Four-Year Colleges Levels III and IV

Ambassadur College
Emerson College
Hiram College
Hendrix College
Mercy College of Detroit
Macalester College
Rider College
St. Joseph's College (Indiana)
Tuckegee Institute
Union College (New York)

Public Four-Year Colleges Levels I and II

Concord College
California State College at San Bernardino
Dakota State College
Kansas State College of Pittsburg
Horfolk State College
Stockton State College
Saginaw Valley College
Winona State College

Public Four-Year Colleges Levels III and IV

Central Washington State College
California State College (Pennsylvania)
Cheyney State College
East Stroudsburg State College
Kutztown State College
Oregon Institute of Technology
Slippery Rock State College
Southern Oregon College
Worcester State College

Private Universities Levels I and II

University of Dubuque
Illinois Institute of Technology
Ottawa University
Pacific University
St. John's University
University of Santa Clara
Samford University
Villanova University
Xavier University of Louisiana
Yale University

Private Universities Levels III and IV

Bradley University
Cornell University
DePaul University
Duke University
Emory University
Furman University
Oral Roberts University
University of Pennsylvania
University of Rochester
Stanford University

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76

Public Universities Levels I and II

University of Alabama
University of California at Santa Barbara
California State University at Fullerton
University of Massachusetts at Boston
Northeastern Illinois State University
University of North Dakota
Northern Illinois University
Northern Michigan University
Utah State University
University of Hyoming

Public Universities Levels III and IV

University of Alaska
East Carolina University
Illinois State University
Iowa State University
University of Massachusetts at Amherst
University of Mississippi
Purdue University
University of Vermont
Washington State University



APPENDIX C

Additional Tabular Displays of the Survey Responses

Appendix C consists of descriptive tables showing the responses of various groups to the Higher Education Outcome Measures Identification Study survey instrument. Included in these tables are the distribution of responses of the survey participants to all of the measures investigated in the study. By providing data in this form it is hoped that the interest and creative talents of others might be stimulated and that further discussion of the results of the study might evolve.

While it is felt that the tables presented here contain a wealth of data it is possible that they will be insufficient for some research interests. Therefore, the National Center for Higher Education Management Systems will make the original data available to interested parties for the cost of reproducing the data deck and postage. Inquiries should be addressed to Dr. Sidney S. Micek, NCHEMS at WICHE, P.O. Drawer P. Boulder, Colorado 80302.



TABLE C.1

The Percentage and Number of Responses to the "Needs" Question by Type of College Administrator*



^{*}It should be noted in reviewing this table that if a respondent did not record a choice for any measure in the questionnaire, the no response was not considered in calculating the distribution of responses across the question categories in the table.

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	FED! GU!T AYAILA	
	. OUTCOME HEASURE	MEED WOULD LIKE DON'T NEED (%) (n) (%) (n)
4	Student scores on tests that indicate devalopment in their <u>breadth</u> of knowledge about facts and principles across several broad fields of study (e.g., the humanities, the physical sciences, etc.).	PRESIDENT 36.6 (19) 44.2 (24) 17.3 (9) 47.8 (29) 34.4 (21) 18.0 (11) 18.0 (11) 18.0 (27) 53.8 (35) 4.6 (35) 18.4 (3) 26.8 (15) 67.9 (36)
A-2	Student scores on tests that indicate devalopment in their <u>depth</u> of know- ledge concerning facts and principles in the particular fields in which a student elects to study.	PRESIDENT ACAD AFF STUDENT AFF SUDGET-FIM 33.5 (20) 44.2 (23) 17.3 (9) 16.4 (10) 6.2 (4) 7.1 (4) 26.8 (16) 66.1 (37)
A-3	Number of students passing certification or licensing exams (e.g., bar exam, CPA, LPH) on the first attempt as a percentage of all students taking the exam.	PRESIDENT 40.0 (20) 48.0 (23) 14.0 (7) ACAD AFF 5TUDENT AFF 27.7 (18) 55.4 (36) 16.9 (11) 7.1 (4) 46.4 (26) 45.4 (26)
A-4	Student scores on tests that indicate their ability to apply general or specialized knowledge to a problem and to implement a solution.	PRESIDENT 30.8 (16) 50.0 (26) 19.2 (10) ACAD AFF 43.3 (26) 40.0 (24) 16.7 (10) STUDENT AFF 26.2 (17) 61.5 (40) 12.3 (8) 8.9 (5) 26.8 (15) 64.3 (36)
A-5	Student scores on tests that indicate their ability to <u>analyze problems</u> (e.g., the recognition of biased points in an article or spench).	PRESIDENT ACAD AFF STUDENT AFF BUOGET-FIN 9.1 (5) 9.1 (5) 9.1 (6) 81.9 (27) 17.3 (9) 17.3 (9) 17.3 (8) 17.2 (11) 9.1 (5) 21.8 (12) 69.1 (38)
A-6	Number of patents awarded and copyrights obtotred by students and/or former students within a certain time period.	PRESIDENT 3.6 (2) 34.6 (18) 61.5 (32) ACAD AFF 3.3 (2) 33.3 (20) 63.3 (36) STUDENT AFF 1.5 (1) 50.8 (33) 47.7 (31) BUOGET-FIN 7.1 (4) 33.9 (19) 58.9 (33)
A-7	Student scores on tests that indicate their ability to read, write, speak, and/or listen.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 59.6 (31) 28.8 (18) 11.8 (6) 18.7 (10) 4.6 (3) 10.7 (6) 37.5 (21) 51.8 (29)
A-6	Number and percentage of students surveyed who have participated in activities that enhance their communication skills (e.g., debate, encounter groups, etc.).	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 19.2 (10)
A-9	Student scores on tests that indicate their ability to perform tasks requiring physical dexterity and skill.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 0.0 (0) 32.7 (17) 67.3 (35) 6.7 (4) 30.3 (18) 63.3 (36) 9.2 (6) 47.7 (31) 43.1 (28) 3.6 (2) 12.5 (7) 83.9 (47)
A-10	Number and parcentage of students surveyed who have participated in activities that enhance their athletic skills (a.g., intramural and varsity sports).	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 9.8 (5) 39.2 (20) 51.0 (26) 6.7 (4) 38.3 (23) 55.0 (33) 16.9 (11) 56.9 (37) 26.2 (17) 3.6 (2) 41.1 (23) 55.4 (31)
8-1	Number and percentage of students surveyed identifying a certain degree, diploma, or certificate as the highest diploma planned.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 52.9 (27) 39.2 (20) 7.8 ' 4} 48.3 (29) 45.0 (27) 6.7 (4) 6.2 (4) 41.1 (28) 33.9 (19)
8-2	Number and percentage of students surveyed who have changed majors (lower divison, upper division, and/or graduate) within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 37.3 (19) 61.0 (26) 11.8 (6) 10.0 (6) 49.2 (32) 10.8 (7) 19.6 (11) 35.7 (20) 44.6 (25)



	OUTCOME MEASURE	
9-3	Number and percentage of students surveyed who are taking memoradit, independent study, or special courses.	PRESIDENT ACAD AFF 65.3 (38) 36.0 (26) 11.7 (7) 5.3 (38) 36.0 (26) 11.7 (7) 5.3 (38) 36.0 (26) 11.7 (7) 5.3 (38) 36.0 (26) 11.7 (12) 44.6 (26) 26.6 (16) 26.8 (15)
8-4	Number of awards and citations received per student and/or former student for their academic performance.	PRESIDENT 19.6 (10) 54.9 (28) 29.8 (13) ACAD AFF 16.9 (10) 54.9 (33) 27.1 (16) STUDENT AFF 26.2 (17) 56.9 (37) 16.9 (11) 7.1 (4) 33.9 (19) 56.9 (33)
9-5	Number of students receiving a degree, diploma, or certificate within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF STUDENT AFF BUDGET-FIN 84.0 (42) 78.3 (47) 20.0 (12) 1.7 (1) 1.7 (1) 2.0 (1) 2
8-6	Average amount of time it takes a student to earn a degree, diploma, or certificate.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 85.9 (29) 41.2 (21) 2.0 (1) 5.1 (2) 5.1 (2) 5.1 (2) 5.1 (2) 5.1 (2) 5.1 (2) 5.1 (2) 5.1 (2) 5.1 (2) 5.1 (2) 5.1 (2) 5.1 (2) 5.2 (2) 5.3 (2) 5.3 (2) 5.3 (2) 6.3 (2)
8-7	Number of students graduating from the institution after a certain period of time as a percentage of their entering class.	PRESIDENT ACAD AFF 61.7 (37) 23.5 (12) 3.8 (2) 3.4 (2) 3.5 (10) 3.3 (2) 3.5 (10) 3.3 (2) 3.5 (
8-8	Number and percentage of graduates for the year who transferred from another school.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN BY.7 (32) BX (*7) B
8-9	Number and percentage of students leaving the institution prior to receiving a degree, diploma, or certificate during a particular academic term or year.	PRESIDENT 70.6 (36) 29.4 (15) 0.0 (0) ACAD AFF 68.3 (41) 30.0 (18) 1.7 (1) STUDENT AFF 86.2 (54) 10.8 (7) 31.2 (2) 88.9 (33) 25.0 (14) 16.1 (9)
8 -10	Number of graduates accepted for study in another educational program that will result in a degree, diploma or certificate as a percentage of those applying.	PRESIDENT
8- 11	Number of graduates working toward or receiving another educational degree. diploma. or certificate after a certain time period following graduation as a percentage of their graduating class.	PRESIDENT ACAD AFF STUDENT AFF BURGET-FIN 27.5 (14) 60.8 (31) 11.8 (6) 8.3 (5) 8.3 (5) 8.2 (19) 82.3 (34) 18.5 (12) 83.4 (20)
8-12	Student and/or former student scores on a scale measuring their perceptions of sheir educational achievement.	PRESIDENT 31.4 (16) 49.0 (25) 19.6 (10) ACAD AFF STUDENT AFF 35.4 (23) 53.8 (35) 10.8 (7) 8UOGET-FIN 7.1 (4) 37.5 (21) 65.4 (31)
8-13	Student scores on a scale measuring their perceptions about the amount of learning that took piece in certain activities sponsored by the institution outside of formal instruction.	PRESIDENT 30.0 (15) 52.0 (26) 18.0 (9) ACAD AFF 25.0 (18) 55.0 (33) 20.0 (12) STUDENT AFF 49.2 (32) 44.6 (29) 6.2 (4) 6.2 (4) 5.4 (3) 39.3 (22) 55.4 (31)
B-14	Student scores on a scale measuring their interest in continued self- initiated study and inquiry.	PRESIDENT 34.U (17) 48.U (24) 18.U (9) ACAD AFF 28.3 17) 60.0 (36) 11.7 (7) STUDENT AFF 30.8 (20) 56.9 (37) 12.3 (8) 7.1 (4) 28.6 (16) 64.3 (36)
C-1	Number and percentage of former students surveyed who indicate that they would send their children to the same school.	PRESIDENT 30.8 (16) 63.8 (28) 15.4 (8) ACAD AFF 26.7 (16) 60.0 (36) 13.3 (8) STUDENT AFF 30.8 (20) 58.5 (38) 10.8 (7) BUDGET-FIN 17.9 (10) 62.5 (35) 19.6 (11)

	OUTCOME MEASURE BEST COPY AVAILABLE	(s) (n) NON D LINE DON'T NEED
G-2	Average amount of alumni gifts within a certain time period after graduation.	PRESIDENT NAME (18) 10.8 (18) 40.0 (36) 41.7 (25) 11.8 (37) 31.8 (37) 31.2 (
C-3	Student and/or former student scores on a scale measuring their degree of satisfaction with their everall educational experience.	PRESIDENT 48.7 (24) 46.2 (24) 7.7 (4) ACAD AFF 53.5 (32) 40.0 (34) 4.7 (4) STUDENT AFF 53.8 (36) 44.6 (39) 1.8 (1) BUDGET-EIN 23.2 (13) 46.2 (27) 28.6 (16)
G-4	Student scores on a scale measuring their degree of satisfaction with their knowledge and skills development (e.g., changes in their breedth and depth of knowledge, changes in their communication skills).	PRESIDENT 48.1 (25) 42.3 (22) 9.5 (5) 41.7 (25) 46.3 (29) 10.0 (6) 51UDENT APP 19.6 (11) 37.8 (21) 42.9 (24)
C-8	Student scores on a scale measuring their degree of satisfaction with their personal development (e.g., changes in their ability to cope with new situations, changes in their self-concept).	PRESIDENT ACAD AFF 31.7 (19) \$0.0 (26) 13.5 (7) ACAD AFF 47.7 (31) 49.2 (32) 3.1 (2) STUDENT AFF 12.6 (7) 37.6 (21) 60.0 (28)
G-6	Student scores on a scale measuring their degree of satisfaction with their social and cultural development (e.g., changes in their ability to get along with others, changes in their appreciation of cultural activities and artifacts).	PRESIDENT ACAD AFF 26.7 (16) 51.7 (21) 21.7 (13) 51.0 (25) 13.5 7 (16) 51.7 (21) 21.7 (13) 49.2 (32) 46.2 (30) 4.6 (3) 4.6 (3) 51.6 (29)
G-7	Student scores on a scale measuring their degree of satisfaction with their progress in achieving their educational career goals.	PRESIDENT 48.1 (26) 42.3 (22) 9.6 (6) ACAD AFF 40.0 (24) 48.3 (29) 11.7 (7) TUDENT AFF 63.1 (41) 36.4 (23) 1.6 (1) 17.9 (10) 48.2 (27) 33.9 (19)
C-8	Student scores on a scale measuring their degree of satisfaction with their progress in achieving their occupational career goals.	PRESIDENT 48.1 (25) 42.3 (22) 9.6 (8) ACAD AFF 46.0 (27) 48.0 (27) 10.0 (6) 10.5 (40) 36.9 (24) 1.6 (1) 16.1 (9) 81.8 (29) 32.1 (18)
D-1	Number and percentage of former students (graduates and nongraduates) surveys who were employed within a certain time period after leaving the institution.	PRESIDENT ACAD AFF STUDENT AFF STUDENT AFF SUDGET-FIN 51.9 (27) 44.2 (23) 3.8 (2) 45.0 (27) 8.3 (8) 7.8 (8) 7.8 (8) 80.7 (34) 28.0 (14)
0-2	Number and percentage of former students (graduates and nongraduates) surveyed who received the job of their first choice.	PRESIDENT
0-3	Average first salary of former students.	PRESIDENT 17.3 9 78.0 39 7.7 4 ACAD AFF 31.7 19 48.3 29 20.0 12 20.0 12 20.0 12 20.0
0-4	Distribution of former students (graduates and nongraduates) across income categories within a certain time period after leaving the institution.	PRESIDENT ACAD AFF 22.0 (13) 85.9 (33) 27.0 (13) 85.9 (33) 27.0 (13) 85.9 (33) 27.0 (13) 85.9 (33) 27.0 (13) 85.9 (37) 3.1 (4) 80 80.0 (28) 3.7 (20)
0-0	Former student (graduates and nongraduates) scores on a scale measuring their degree of satisfaction with their job performance.	PREJIDENT ACAD AFF 23.3 (14) 57.7 (30) 21.2 (11) 23.3 (14) 53.3 (32) 23.3 (14) 53.0 (14) 53.3 (32) 23.3 (14) 53.0 (14) 53.3 (32) 53.6 (30) 53.6 (30)
0-6	Number of professional occupation awards and citations received per former student surveyed. 87	PRESIDENT 11.5 (6) 48.1 (25) 40.4 (21) ACAD AFF 5.0 (3) 63.3 (38) 31.7 (19) STUDELT AFF 12.5 (8) 57.8 (37) 29.7 (19) 8.9 (5) 42.9 (24) 48.2 (27)

	OUTCOME MEASURE	NEED WOULD LIKE DON'T HEED (S) (a) (S) (a) (S) (n)
9-7	Number and percentage of former students surveyed who are in management positions within a certain time period after leaving the institution.	PA_SIDENT
0-8	Number of voluntary/involuntary changes in <u>employment</u> within a given time period per former student surveyed.	PRESIDENT 8.8 3 53.8 (28) 40.4 (21) ACAO AFF 18.0 9 43.3 (26) 41.7 (25) STUDENT AFF 21.9 (14) 54.7 (38) 23.4 (15) BUDGET-FIN 8.9 (8) 33.9 (19) 87.1 (32)
0-9	Number of voluntary/involuntary changes in <u>career field</u> within a given time period per former student surveyed.	PRESIDENT ACAD AFF STUDENT AFF BUOGET-FIN 9.6 5) 85.8 (29) 34.6 (18) 40.0 (24) 40.0 (24) 8.9 (8) 35.7 (20) 58.4 (31)
0-10	Average first salary expectations of students.	PRESIDENT 7.7 4 63.5 (33) 28.8 (15) ACAD AFF 16.7 (10) 46.7 (28) 36.7 (22) STUDENT AFF 31.2 (20) 46.9 (30) 21.9 (14) BUDGET-FIM 12.5 (7) \$3.6 (30) 33.9 (19)
0-11	Number and percentage of students surveyed who are aspiring to a particular type of occupational career.	PRESIDENT
0-12	Number and percentage of students and/or former students surveyed who are seeking certain levels of employment.	PRESIDENT ACAD AFF STUDENT AFF BUOGET-FIN 26.0 (18) 35.0 (21) 35.0 (21) 35.0 (21) 30.0 (18) 13.8 (9) 17.9 (10) 42.9 (24) 39.3 (22)
D-13	Number and percentage of former students (graduates and nongraduates) surveyed accepting employment in their major field of study.	PRESIDENT 41.2 (21) 49.0 (25) 9.8 (5) 40.0 (24) 46.7 (26) 13.3 (8) 49.2 (32) 43.1 (26) 7.7 (5) 19.6 (11) 39.3 (22) 41.1 (23)
E-1	Number of students and/or former students reporting certain mental and physical illnesses as a percentage of all the students and/or former students surveyed.	PRESIDENT 5.9 (3) 39.2 (20) 54.9 (28) ACAD AFF 6.8 (4) 32.2 (19) 61.0 (36) STUDENT AFF 33.8 (22) 41.5 (27) 24.6 (16) BUDGET-FIN 5.4 (3) 21.4 (12) 73.2 (41)
E-2	Number and percentage of students surveyed who have participated in special mental health counseling programs within a certain period of time.	PRESIDENT 5.9 (3) 31.4 (16) 62.7 (32) ACAD AFF 10.2 6 27.1 (16) 62.7 (37) STUDENT AFF 36.9 (24) 46.2 (30) 16.9 (11) BUDGET-FIN 5.4 (3) 19.6 (11) 75.0 (42)
E-3	Number and percentage of students and/or former students surveyed who belong to or hold office in religious organizations.	PRESIDENT 5.9 (3) 31.4 (16) 62.7 (32) ACAD AFF 6.1 (3) 25.4 (15) 65.5 (41) STUDENT AFF 7.7 (5) 46.2 (30) 46.2 (30) BUDGET-FIN 1.8 (1) 16.1 (9) 82.1 (46)
E-4	itudent and/or former student scores on a scale measuring their religious and spiritual attitudes and beliefs.	PRESIDENT 9.8 (5) 27.5 (14) 62.7 (32) ACAD AFF 11.9 (7) 22.0 (13) 66.1 (39) STUDENT AFF 7.7 (5) 41.5 (1.7) 50.8 (33) BUDGET-FIN 1.8 (1) 23.2 (13) 75.0 (42)
E-5	Number and percentage of students and/or former students surveyed who regularly attend religious services.	PRESIDENT 7.8 (A) 23.5 (12) 68.6 (35) ACAD AFF 5.1 (3) 25.4 (15) 69.5 (41) STUDENT AFF 6.2 (4) 33.8 (22) 60.0 (39) BUDGET-FIN 0.0 (0) 19.6 (11) 80.4 (45)
E-6	Student and/or former student scores on a scale measuring their attitudes and beliefs toward new or different ideas and things.	PRESIDENT ACAD AFF 11.9 (7) 54.2 (21) 39.2 (20) 31.9 (20) STUDENT AFF 21.5 (14) 60.0 (39) 18.5 (12) 36 (2) 33.9 (19) 62.5 (35)

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	OUTCOME MEASURE BEST CUPY AVAILABLE	(x) (n) (x) (n) (x) (n)
£-7	Student and/or former student scores on a scale measuring their per- ceptions about their self-image.	PRESIDENT ACAD AFF STUDENT AFF BUOGET-FIN 23.5 12
F-1	Number ind percentage of students and/or former students surveyed who hold membership in social, charitable, political, or civic organizations.	PRESIDENT ACAD AFF STUDENT AFF STUDENT AFF BUDGET-FIN 1.9 (1) 5.0 (3) 50.0 (30) 45.0 (27) 51.9 (11) 53.8 (38) 29.2 (19) 3.6 (2) 33.9 (19) 62.5 (35)
F-2	Number of awards and citations earned per student and/or former student for social contributions.	PRESIDENT ACAD AFF STUDENT AFF STUDENT AFF BUOGET-FIN 0.0 (0) 44.2 (23) 55.8 (29) 3.3 (2) 53.3 (32) 43.3 (26) 13.8 (9) 63.1 (41) 23.1 (15) 3.6 (2) 39.3 (22) 57.1 (32)
F-3	Student and/or former student scores on a scale measuring their perceptions about their ability to live and interact with other people.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 15.4 (8) 49.1 (28) 51.7 (31) 33.3 (20) 51.7 (31) 33.3 (20) 21.5 (14) 3.6 (2) 19.6 (11) 76.8 (43)
F-4	Number and percentage of students and/or former students surveyed who have been candidates for positions in local, state, and federal government.	PRESIDENT 5.8 (3) 55.8 (29) 38.5 (20) ACAD AFF 8.3 (5) 50.0 (30) 41.7 (25) STUDENT AFF 12.3 (8) 61.5 (40) 26.2 (17) BUDGET-FIN 3.6 (2) 41.1 (23) 55.4 (31)
1-5	Number and percantage of students and/or former students surveyed who hold office in social, charitable, political, or civic organizations.	PRESIDENT A.3 (5) 57.7 (30) 40.4 (21) ACAD AFF 8.3 (5) 50.0 (30) 41.7 (25) ACAD AFF 15.4 (10) 58.5 (38) 26.2 (17) BUDGET-FIN 5.4 (3) 35.7 (20) 58.9 (33)
F-6	Number and percentage of students and/or former students surveyed who have participated in special social development programs (e.g., the Peace Corps, and VISTA).	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 7.7
F-7	Number and percentage of students and/or former students surveyed who have changed their political party affiliation within a certain period of time.	PRESIDENT
F-8	Amount of monetary contributions per student and/or former student made to political, charitable, and social organizations or special interest groups within a cartain time period relative to income category.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 5.8 (3) 25.0 (13) 69.2 (36) 73.3 (44) 25.0 (15) 73.3 (44) 25.0 (15) 75.4 (49) 26.8 (15) 67.9 (38)
F-9	Average amount of time devoted to political, charitable, and social organizations or special interest groups within a cartain time pariod per student and/or former student.	PRESIDENT 5.8 (3) 28.8 (15) 65.4 (34) ACAD AFF 5.0 (3) 31.7 (19) 63.3 (38) STUDENT AFF 6.2 (4) 46.2 (30) 47.7 (31) BUDGET-FIN 1.8 (1) 23.2 (13) 75.0 (42)
F-10	Student and/or former student scores on a scale measuring their political attitudes and beliefs.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 3.8 (2) 28.8 (15) 67.3 (35) 33.9 (20) 61.0 (36) 44.6 (29) 44.6 (29) 17.9 (10) 82.1 (46)
F-11	Number and percentage of students and/or former students surveyed who have used mechanisms of the political process (e.g., voted in elections, circulated petitions, attended hearings, written letters to their congressmen).	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 3.8 (2) 38.5 (20) 57.7 (30) 3.3 (2) 35.0 (21) 61.7 (37) 4.6 (3) 43.1 (28) 52.3 (34) 1.8 (1) 16.1 (9) 82.1 (46)
F-12	Student and/or former student scores on a scale measuring their racial and ethnic attitudes and beliefs. 89	PRESIDENT 19.2 (10) 38.5 (20) 42.3 (22) ACAD AFF 15.0 (9) 40.0 (24) 45.0 (27) STUDENT AFF 24.6 (16) 50.8 (33) 24.6 (16) BUDGET-FIN 5.4 (3) 19.6 (11) 75.0 (42)
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	OUTCOME MEASURE	(%) (n) (%) (n) (%) (n)
f.	3 Student end/or former student scores on a scale measuring their ethical and moral attitudes and beliefs and their concern for human welfare.	PRESIDENT 19.8 (10) 44.8 (23) 36.8 (19) ACAD AFF 18.3 (11) 46.7 (26) 36.0 (21) STUDENT AFF 21.5 (14) 56.8 (36) 20.0 (13) STUDENT AFF 3.6 (2) 28.6 (16) 67.9 (36)
Fe'	Student and/or former student scores on a scale measuring their current and desired social and economic level.	PRESIDENT 7.7 (4) 55.8 (29) 36.5 (19) ACAD AFF 13.3 (8) 43.3 (26) 43.3 (26) 57.00 43.3 (26) 43.3
F- 1	Student and/or former student scores on a scale measuring their interest in and acquaintence with the arts, great books, and other cultural artifacts and activities.	PRESIDENT ACAD AFF 20.0 (12) 45.0 (27) 30.6 (16) 45.0 (27) 35.0 (21) 45.0 (27) 35.0 (21) 45.0 (27) 35.0 (21) 45.0 (27) 35.0 (21) 45.0 (27) 35.0 (21) 45.0 (27) 35.0 (21) 45.0 (27) 35.0 (21) 45.0 (27) 35.0 (21) 45.0 (27) 35.0 (21) 45.0 (27) 35.0 (2
F-1	Number of students and/or former students having a personal library of well-known literary works or pieces of art as a percentage of all students and/or former students surveyed.	PRESIDENT - ACAD AFF STUDENT AFF BUDGET-FIN - ACAD AFF 1.8 (1) - ACAD AFF - C.7 (4) - C.7 (5) -
G-1	Number of nonmatriculating participants enrolled in instructional programs es a percentage of the total number of persons in those programs.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 49.0 (25) 43.1 (22) 7.8 (4) 47.5 (28) 13.6 (8) 39.1 (25) 37.5 (24) 23.4 (15) 41.1 (23) 35.7 (20) 23.2 (13)
6-2	Nonmatriculating participant scores on a scale measuring their degree of satisfaction with their educational experience.	PRESIDENT
G-3	Number and percentage of normatriculating participants surveyed who received a promotion and/or salary increase as a result of job-related educational experiences.	PRESIDENT 27.6 (11) 55.5 (30) 19.6 (10) ACAD AFF 22.0 (13) 49.2 (29) 28.8 (17) STUDENT AFF 23.4 (15) 43.7 (28) 32.8 (21) EUROGET-FIN 12.5 (7) 51.8 (29) 35.7 (20)
G-4	Scores of normatriculating participants, who are working or have returned to their job, on a scale measuring their satisfaction with their job performance as a result of job-related educational experiences.	TRESIDENT 16.0 (8) 60.0 (30) 24.0 (12) ACAD AFF 25.4 (15) 45.8 (27) 28.8 (17) STUDENT AFF 25.0 (16) 42.2 (27) 32.8 (21) 7.1 (4) 41.1 (23) 51.8 (29)
G- 5	Average amount of time per faculty/staff member spent in selected educational activities for their personal educational growth and development while at the institution.	PRESIDENT 49.0 (25) 43.1 (22) 7.8 (4) ACAD AFF 39.0 (23) 42.4 (25) 18.6 (11) STUDENT AFF 21.9 (14) 46.9 (30) 31.2 (20) BUDGET-FIN 26.8 (15) 44.6 (25) 28.6 (16)
G- 6	Faculty/staff scores on a scale measuring their perceptions of their educational growth and development as a result of their experiences while at the institution.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 33.3 (17) 56.9 (29) 9.8 (5) 49.2 (29) 15.3 (9) 51.0 (16) 42.2 (27) 32.8 (21) 16.1 (9) 42.9 (24) 41.1 (23)
н-1	Average amount of time faculty/staff and students spent in selected community jervice activities (e.g., giving professional service and advice outside the institution) within a certain time period.	PRESIDENT 32.7 (17) 53.8 (28) 13.5 (7) ACAD AFF 32.8 (20) 45.9 (28) 21.3 (13) STUDENT AFF 21.9 (14) 57.8 (37) 20.3 (13) BUDGET-FIN 16.4 (9) 58.2 (32) 25.5 (14)
H-2	Estimated replacement value of specific community services received by individuals or organizations that receive the services.	PRESIDENT
H-3	Ratio of total income for community services to total budget for community services.	PRESIDENT 46.2 (24) 30.8 (16) 23.1 (12) ACAD AFF 33.3 (20) 31.7 (19) 35.0 (21) STUDENT AFF 14.5 (9) 48.4 (30) 37.1 (23) BUDGET-FIN 29.1 (16) 49.1 (27) 21.8 (12)

	OUTCOME MEASURE BEST COPY AVAILABLE	NEED WOULD LIKE DON'T NEED (\$) (n) (\$) (n) (\$) (n)
H-4	Number of faculty/staff on leave from the institution to local, state, and national governments in a policy, management or technical role.	PRESIDENT 59.6 (31) 17.3 (9) 23.1 (12) ACAD AFF 49.2 (30) 31.1 (19) 19.7 (12) STUDENT AFF 32.3 (21) 27.7 (18) 40.0 (26) BUDGET-FIN 56.4 (31) 34.5 (19) 9.1 (5)
H-5	Number of individuals not associated with the institution who were served by a particular support program (e.g., the computer center, the library, the health services staff, etc.) as a percentage of the total number of individuals served within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF STUDENT AFF BUDGET-FIN 50.0 (26) 36.5 (19) 13.5 (7) 47.5 (29) 18.0 (11) 47.5 (29) 18.0 (11) 47.6 (23) 49.1 (27) 9.1 (5)
H-6	Estimated monetary value of specific community services (e.g., health services, computer services, etc.) offered relative to other comparable services offered elsewhere.	PRESIDENT 47.1 (24) 39.2 (20) 13.7 (7) ACAD AFF 19.7 (12) 44.3 (27) 36.1 (22) STUDENT AFF 26.6 (17) 37.5 (24) 35.9 (23) BUDGET-FIN 36.4 (20) 50.9 (28) 12.7 (7)
H-7	Number and percentage of persons attending selected extramural, cultural, and recreational events who are not students or members of the institution's faculty/staff.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 32.7 (17) 44.2 (23) 23.1 (12) 50.8 (31) 32.8 (20) 46.2 (30) 23.1 (15) 16.4 (9) 49.1 (27) 34.5 (19)
1-1	Number and percentage of students who are employed in businesses, agencies and organizations in the community.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 38.5 (20) 57.7 (30) 3.8 (2) 49.2 (30) 16.4 (10) 16.8 (7) 10.8 (7)
1-2	Number and percentage of graduates of a particular graduating class who are employed in-state versus out-of-state.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 30.5 (19) 48.1 (25) 15.4 (8) 25.5 (18) 25.5 (18) 32.3 (21) 47.7 (31) 20.0 (13) 37.6 (21)
1-3	Total sollar amount of goods and services purchased by the institution from a particular sector of the community within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 38.5 (20)
1-4	Faculty/staff and student expenditures in the community within a certain time period.	FRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 32.7 (17) 53.8 (28) 13.5 (7) 45.9 (28) 39.3 (24) 50.8 (33) 33.8 (22) 41.1 (23) 42.9 (24) 16.1 (9)
1-5	Estimated dollar amount of the institution's payroll as a percentage of the estimated total community payroll.	PRESIDENT 50.0 (26) 38.5 (20) 11.5 (6) ACAD AFF 23.0 (14) 42.6 (28) 34.4 (21) STUDENT AFF 23.1 (15) 40.0 (26) 36.9 (24) BUDGET-FIN 37.5 (21) 42.9 (24) 19.6 (11)
1-6	Amount of land removed from the community tax base as a result of the existence of the fartitution.	PRESIDENT 42.3 (22) 40.4 (21) 17.3 (9) ACAD AFF 14.8 (9) 47.5 (29) 37.7 (23) STUDENT AFF 27.7 (18) 30.8 (20) 41.5 (27) BUDGET-FIN 55.4 (31) 30.4 (17) 14.3 (8)
1-7	Employers' scores on a scale measuring their degree of satisfaction with the performance of students and/or former students on the job.	PRESIDENT 48.0 (24) 38.0 (19) 14.0 (7) ACAD AFF 37.7 (23) 41.0 (25) 21.3 (13) STUDENT AFF 46.2 (30) 40.0 (26) 13.8 (9) BUDGET-FIN 12.5 (7) 44.6 (25) 42.9 (24)
1-8	Amount of private housing owned or rented by students and/or faculty/staff as a percentage of the total housing available in the community.	PRESIDENT 38.5 (20) 30.8 (16) 30.8 (16) ACAO AFF 9.8 (6) 37.7 (23) 52.5 (32) STUDENT AFF 29.7 (19) 42.2 (27) 28.1 (18) 6UDGET-FIN 17.9 (10) 53.6 (30) 28.6 (16)
1-9 ERIC	Value of community business properties attributable to institution-related expenditures.	PRESIDENT 20.8 (10) 47.9 (;3) 31.2 (15) ACAD AFF 9.8 (6) 32.8 (20) 57.4 (35) STUDENT AFF 18.5 (12) 32.3 (21) 49.2 (32) BUDGET-FIN 16.1 (9) 50.0 (28) 33.9 (19)
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	OUTCOME MEASURE	(S) (D) (S) (D) (S) (D) (S) (D) (S) (D) (S) (D)
I-10	Amount and percentage of the local credit base due to institution-related deposits in community banks.	PRESIDENT ACAD AFF 11.5 7 27.9 (17) 60.7 (37) STUDENT AFF 10.8 7 38.5 (25) 50.8 (33) 19.6 (11)
1-11	Extent to which the presence of the institution influences businesses locating in the community.	PRESIDENT 38.5 (20) 46.2 (24) 15.4 (8) ACAD AFF 23.0 (14) 49.2 (30) 27.9 (17) STUDENT AFF 23.1 (15) 47.7 (31) 29.2 (19) 37.5 (21) 55.4 (31) 7.1 (4)
1-12	Amount and percentage of federal revenue sharing allocation attributable to the institution's presence in the community.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 30.8 (16) 44.2 (23) 25.0 (13) 19.7 (12) 39.3 (24) 41.0 (25) 21.5 (14) 40.0 (26) 38.5 (25) 33.9 (19) 51.8 (29) 14.3 (8)
I-13	Institution-related contributions as a percentage of total community fund raising (e.g., United Fund program).	PRESIDENT 23.1 (12) 50.0 (26) 26.9 (14) ACAD AFF 18.0 (11) 37.7 (23) 44.3 (27) STUDENT AFF 15.4 (10) 47.7 (31) 36.9 (24) 8UDGET-FIN 32.1 (18) 41.1 (23) 26.8 (15)
1-14	Geographic distribution of alumni.	PRESIDENT 48.1 (25) 44.2 (23) 7.7 (4) ACAD AFF 21.3 (13) 60.7 (37) 18.0 (11) STUDENT AFF 30.8 (20) 52.3 (34) 16.9 (11) 25.0 (14) 48.2 (27) 26.8 (15)
1-15	Community attitudes toward the institution (e.g., attitudes toward the institution's contribution to community social/cultural activities and the institution's impact on the amount of crime in the community).	PRESIDENT ACAD AFF STUDENT AFF BUOGET-FIN 66.7 (34) 29.4 (15) 3.9 (2) 49.2 (30) 9.8 (6) 12.3 (8) 12.3 (8) 16.1 (9)
1-16	Number of persons from the community employed by the institution.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 57.7 (30) 28.8 (15) 36.1 (22) 31.1 (19) 32.8 (20) 36.1 (22) 31.1 (19) 40.0 (26) 32.3 (21) 27.7 (18) 66.1 (37) 19.6 (11) 14.3 (8)
1 1	Distribution of publications by type of publication (e.g., books, monographs, etc.) per student, former student, and/or faculty member within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF STUDENT AFF BUDGET-FIN 13.7 (7) 52.9 (27) 33.3 (17) 29.5 (18) 45.9 (28) 24.6 (15) 47.7 (31) 43.1 (28) 7.1 (4) 33.9 (19) 58.9 (33)
J-2	Number of times a given publication is cited in bibliographies of other authors within a certain time period.	PRESIDENT 0.0 (0) 34.6 (18) 65.4 (34) ACAD AFF 14.8 (9) 32.8 (20) 52.5 (32) STUDENT AFF 4.6 (3) 26.2 (17) 69.2 (45) BUDGET-FIN 5.4 (3) 16.1 (9) 78.6 (44)
J-3	Number of articles published per faculty/staff member in prestigious journals within a certain time period.	PRESIDENT ACAD AFF 42.6 (26) 39.3 (24) 18.0 (11) STUDENT AFF 10.8 (7) 53.8 (35) 35.4 (23) BUDGET-FIN 14.3 (8) 39.3 (22) 46.4 (26)
J-4	Number of papers presented at professional meetings per student, former student, and/or faculty/staff member within a certain time period.	PRESIDENT 17.3 (9) 53.8 (28) 28.8 (15) ACAD AFF 39.3 (24) 42.6 (26) 18.0 (11) STUDENT AFF 7.7 (5) 63.1 (41) 29.2 (19) BUDGET-FIN 10.7 (6) 42.9 (24) 46.4 (26)
J-5	Number of awards and citations received by students. former students. and/or faculty members for their research and art products within a certain time period.	PRESIDENT
J-6	Average amount of faculty time spent in selected research and art producing activities.	PRESIDENT ACAD AFF 39.3 (19) 35.3 (18) 27.5 (14) 39.3 (24) 42.6 (26) 18.0 (11) STUDENT AFF 11.1 (7) 42.9 (27) 46.0 (29) 8UDGET-FIN 30.4 (17) 48.2 (27) 21.4 (12)

	OUTCOME MEASURE	NEED WOULD LIKE DON'T REED (%) (n) (%) (n)
3-7	Number of proposals funded for certain purposes (e.g., research versus training) by level of funding as a percentage of all proposals submitted.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 42.3 (22) 30.6 (20) 19.2 (10) 65.7 (34) 23.0 (14) 21.3 (13) 21.5 (14) 47.7 (31) 30.8 (20) 53.6 (30) 30.4 (17) 16.1 (9)
J-8	Total dollar amount of gifts and/or grants received for certain purposes (e.g., research versus training) as a percentage of total budget within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 63.5 (33) 23.1 (12) 13.5 (7) 23.0 (14) 27.9 (17) 23.0 (14) 30.8 (20) 38.5 (25) 30.8 (20) 76.8 (43) 16.1 (9) 7.1 (4)
J-9	Number and percentage of faculty/staff surveyed who have created films, taped lectures, etc. within a certain time period.	PRESIDENT 21.2 (11) 53.8 (28) 25.0 (13) ACAD AFF 37.7 (23) 39.3 (24) 23.0 (14) STUDENT AFF 16.9 (11) 47.7 (31) 35.4 (23) 17.9 (10) 42.9 (24) 39.3 (22)
J- 10	Number of patents and/or copyrights received per student, former student, and/or faculty member within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 11.5 (6) 46.2 (24) 42.3 (22) 27.9 (17) 31.1 (19) 41.0 (25) 4.6 (3) 53.8 (35) 41.5 (27) 14.3 (8) 39.3 (22) 46.4 (26)
J-11	Number of books or monographs written by faculty/staff that are published commercially within a certain time period.	PRESIDENT 23.1 (12) 50.0 (26) 26.9 (14) ACAD AFF 52.5 (32) 32.8 (20) 14.8 (9) STUDENT AFF 15.4 (10) 52.3 (34) 32.3 (21) BUDGET-FIN 12.5 (7) 46.4 (26) 41.1 (23)
J-12	Judgements of peer groups and/or potential beneficiary groups regarding the worth/impact of research project results.	PRESIDENT 23.1 (12) 42.3 (22) 34.6 (18) ACAD AFF 27.9 (17) 47.5 (29) 24.6 (15) STUDENT AFF 26.2 (17) 33.8 (22) 40.0 (26) BUDGCT-FIN 17.9 (10) 42.9 (24) 39.3 (22)
J-13	Number and percentage of graduates engaged in research activities.	PRESIDENT 19.2 (10) 53.8 (28) 26.9 (14) ACAD AFF 14.8 (9) 54.1 (33) 31.1 (19) STUDENT AFF 7.7 (5) 61.5 (40) 30.8 (20) BUDGET-FIN 12.5 (7) 30.4 (17) 57.1 (32)
J-14	Number and percentage of faculty/staff and students invited to participate in professional meetings and conferences.	PRESIDENT 23.1 (12) 57.7 (30) 19.2 (10) ACAD AFF 34.4 (21) 44.3 (27) 21.3 (13) STUDENT AFF 13.8 (9) 55.4 (36) 30.8 (20) BUDGET-FIN 12.5 (7) 37.5 (21) 50.0 (28)
J-15	Number and percentage of graduates who have produced or exhibited certain art forms (e.g., paintings, sculptures, plays, etc.).	PRESIDENT 19.2 (10) 59.6 (31) 21.2 (11) ACAD AFF 23.0 (14) 55.7 (34) 21.3 (13) STUDENT AFF 9.2 (6) 60.0 (39) 30.8 (20) BUDGET-FIN 8.9 (5) 32.1 (18) 58.9 (33)
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TABLE C.2

The Percentage and Number of Responses to the "Access" Question, by Type of College Administrator*



^{*}It should be noted in reviewing this table that if a respondent did not record a choice for any measure in the questionnaire, the no response was not considered in calculating the distribution of responses across the question categories in the table.

	OUTCOME MEASURE BEST COPY AVAILABLE		HAVE ACCESS	DON'T HAVE	NOT SURE (%) (n)
A-1	Student scores on tests that indicate development in their breadth of knowledge about facts and principles across several broad fields of study (e.g., the humanities, the physical sciences, etc.).	PRESIDENT ACAO AFF STUGEN' AFF BUDGET-FIN	26.9 (14) 29.5 (18) 47.7 (31) 23.2 (13)	69.2 (36) 62.3 (38) 43.1 (28) 41.1 (23)	3.8 (2) 8.2 (5) 9.? (6) 3F.; (.:0)
A- 2	Student scores on tests that indicate development in their depth of know-ledge concerning facts and principles in the particular fields in which a student elects to study.	PRESIDENT ACAD AFF STUOENT AFF BUOGET-FIN	31.4 (16) 32.8 (20) 41.5 (27) 34.5 (19)	62.7 (32) 54.1 (33) 49.2 (32) 36.4 (20)	5.9 (3) 13.1 (8) 9.2 (6) 29.1 (16)
A-3	Number of students passing certification or licensi j exams (e.g., bar exam, CPA, LPN) on the first attempt as a percentage of all students taking the exam.	PRESIDENT ACAO AFF STUDENT AFF BUOGET-FIN	44.9 (22) 36.1 (27) 34.4 (22) 32.7 (18)	44.9 (22) 47.5 (29) 43.7 (28) 40.0 (22)	10.2 (5) 16.4 (10) 21.9 (14) 7.3 (15)
A-4	Student scores on tests that indicate their ability to apply general or specialized knowledge to a problem and to implement a solution.	PRESIDENT ACAO AFF STUOENT AFF BUDGET-FIN	12.0 (6) 5.0 (3) 20.3 (13) 14.5 (8)	80.0 (40) 81.7 (49) 64.1 (41) 45.5 (25)	8.C (4) 13.3 (8) 15.6 (10) 40.0 (22)
A-5	Student scores on tests that indicate thier ability to <u>analyze</u> problems (e.g., the recognition of biased points in an article or speech).	PRESIDENT ACAO AFF STUDENT AFF BUDGET-FIN	12.0 (6) 1.7 (1) 9.5 (6) 9.1 (5)	80.0 (40) 85.0 (51) 68.3 (43) 52.7 (29)	8.0 (4) 13.3 (8) 22.2 (14) 38.2 (21)
A-6	Number of patents awarded and copyrights obtained by students and/or former students within a ce.tain time period.	PRESIOENT ACAO AFF STUDENT AFF BUDGET-FIN	4.2 (2) 0. (0) 0. (0) 3.6 (2)	93.7 (\$5) 100.0 (58) 82.8 (53) 74.5 (41)	2.1 (1) D. (0) 17.2 (11) 21.8 (12)
A-7	Student scores on tests that indicate their ability to read, write, speak, and/or listen.	PRESIOENT ACAD AFF STUOENT AFF BUDGET-FIN	41.2 (21) 41.7 (25) 58.5 (38) 30.9 (17)	47.1 (24) 48.3 (29) 29.2 (19) 36.4 (20)	11.8 (6) 10.0 (6) 12.3 (8) 32.7 (18)
4-8	Number and percentage of students surveyed who have participated in activities that enhance their communication skills (e.g., debate, encounter groups, etc.).	PRESIGENT ACAO AFF STUGENT AFF BUDGET-FIN	30.6 (15) 15.0 (9) 32.3 (21) 12.7 (7)	55.1 (27) 73.3 (44) 50.8 (33) 49.1 (27)	14.3 (7) 11.7 (7) 16.9 (11) 38.2 (21)
A-9	Student scores on tests that indicate their ability to perform tasks requiring physical dexterity and skill.	PRESIDENT ACAO AFF STUDENT AFF BUOGET-FIN	14.9 (7) 8.6 (5) 10.8 (7) 10.9 (6)	76.6 (36) 82.8 (48) 73.8 (48) 54.5 (30)	8.5 { 4} 8.6 { 5} 15.4 { 10} 34.5 { 19}
A-10	Number and percentage of students surveyed who have participated in activities that enhance thier athletic skills (e.g., intramural and varsity sports).	PRESIDENT ACAO AFF STUDENT AFF BUDGET-FIN	33.3 (16) 30.5 (18) 44.6 (29) 43.6 (24)	56.2 (27) 62.7 (37) 44.6 (29) 30.9 (17)	10.4 (5) 6.8 (4) 10.8 (7) 25.5 (14)
8-1	Number and percentage of students surveyed identifying a certain degree, diploma, or certificate as the highest degree planned.	PRESIGENT ACAD AFF STUGENT AFF BUGGET-FIN	52.0 (26) 51.7 (31) 52.3 (34) 42.6 (23)	30.0 (15) 35.0 (21) (19) 8 (15)	18.0 (9) 13.3 (8) 18.5 (12) 29.6 (16)
B-2	Number and percentage of students surveyed who have changed majors (lower divison, upper division, and/or graduate) within a certain time period.	PRESIDENT ACAO AFF STUDENT AFF BUDGET-FIN	54.0 (27) 36.7 (22) 53.8 (35) 50.0 (27)	34.0 (17) 46.7 (28) 32.3 (21) 33.3 (18)	12.0 (6) 16.7 (10) 13.8 (9) 16.7 (9)



	OUTCOME MEASURE BEST COPY AVAILABLE		HAVE ACCESS DON'T HAVE NOT SURE (%) (n) (%)ACCESS (n) (%) (n)
B-3	Number and percentage of students surveyed who are taking noncredit, independent study, or special courses.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	64.0 (32) 18.0 (9) 18.0 (9) 54.2 (32) 39.0 (23) 6.8 (4) 59.4 (38) 29.7 (19) 10.9 (7) 65.5 (36) 20.0 (11) 14.5 (8)
B-4	Number of awards and citations received per student and/or former student for their academic performance.	PRESIDENT ACAD AFF STUDENT AFF BUCGET-FIN	30.0 (15) 64.0 (32) 6.0 (3) 20.3 (12) 66.1 (39) 13.6 (8) 36.9 (24) 41.5 (27) 21.5 (14) 37.0 (20) 35.2 (19) 27.8 (15)
B-5	Number of students receiving a degree, diploma, and certificate within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	72.0 (36) 20.0 (10) 8.0 (4) 67.8 (40) 23.7 (14) 8.5 (5) 84.4 (54) 14.1 (9) 1.6 (1) 78.2 (43) 12.7 (7) 9.1 (5)
B-6	Average amount of time it takes a student to earn a degree, diploma, or certificate.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	52.0 (26) 32.0 (16) 16 0 (8) 37.9 (22) 43.1 (25) 19.0 (11) 63.1 (41) 29.2 (19) 7.7 (5) 54.5 (30) 23.6 (13) 21.8 (12)
8-7	Number of students graduating from the institution after a certain period of time as a percentage of their entering class.	PPESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	60.0 (30) 28.0 (14) 12.0 (6) 40.0 (24) 35.0 (21) 25.0 (15) 67.7 (44) 18.5 (12) 13.8 (9) 61.8 (34) 16.4 (9) 21.8 (12)
8-8	Number and percentage of graduates for the year who transferred from another school.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	76.5 (39) 15.7 (8) 7.8 (4) 60.0 (36) 23.3 (14) 16.7 (10) 70.8 (46) 16.9 (11) 12.3 (8) 63.6 (35) 16.4 (9) 20.0 (11)
B-9	Number and percentage of students leaving the institution prior to receiving a degree, diploma or certificate during a particular academic term or year.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	78.4 (40) 11.8 (6) 9.8 (5) 63.3 (38) 23.3 (14) 13.3 (8) 83.1 (54) 9.2 (6) 7.7 (5) 70.9 (39) 9.1 (5) 20.0 (11)
B -10	Number of graduates accepted for strong another educational program that will result in a degree, diploma or certificate as a percentage of those applying.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	27.1 (13) 52.1 (25) 20.8 (10) 11.7 (7) 66.7 (40) 21.7 (13) 33.8 (22) 47.7 (31) 18.5 (12) 33.3 (18) 29.6 (16) 37.0 (20)
8-11	Number of graduates working toward or receiving another educational degree, diploma, or certificate after a certain time period following graduation as a percentage of their graduating class.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	18.7 (9) 70.8 (34) 10.4 (5) 10.0 (6) 76.7 (46) 13.3 (8) 20.0 (13) 58.5 (38) 21.5 (14) 20.4 (11) 51.9 (28) 27.8 (15)
B-12	Student and/or former student scores on a scale measuring their perceptions of their educational achievement.	PRESIDENT ACAD AFF STUDENT AFF RUDGET-FIN	8.2 (4) 81.6 (40) 10.2 (5) 6.7 (4) 85.0 (51) 8.3 (5) 9.2 (6) 73.8 (48) 16.9 (11) 3.6 (2) 58.2 (32) 38.2 (21)
B-13	Student scores on a scale measuring their perceptions about the amount of learning that took place in certain activities sponsored by the institution outside of formal instruction.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	2.0 (1) 93.9 (46) 4.1 (2) 5.1 (3) 86.4 (51) 8.5 (5) 4.6 (3) 75.4 (49) 20.0 (13) 1.8 (1) 63.6 (35) 34.5 (19)
B-14	Student scores on a scale measuring their interest in continued self-initiated study and inquiry.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	2.1 (1) 91.7 (44) 6.2 (3) 5.0 (3) 91.7 (55) 3.3 (2) 3.1 (2) 84.6 (55) 12.3 (8) 3.6 (2) 61.8 (34) 34.5 (19)
C-1	Number and percentage of former students surveyed who indicate that they would send their children to the same school. 98	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	0. (0) 96.1 (49) 3.9 (2) 6.7 (4) 86.7 (52) 6.7 (4) 6.2 (4) 86.2 (56) 7.7 (5) 1.8 (1) 67.3 (37) 30.9 (17)
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	OUTCOME MEASURE	<u> </u>	HA/E ACCESS	DON'T HAVE	NOT SURE
C-2	Average amount of alumni gifts within a certain time period after graduation.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	55.8 (29) 26.7 (16) 39.1 (25) 36.4 (20)	42.3 (22) 56.7 (34) 43.7 (28) 41.8 (23)	1.9 (1) 16.7 (10) 17.2 (11) 21.8 (12)
C-3	Student and/or former student scores on a scale measuring their degree of satisfaction with their overall educational experience.	FPESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	9.8 (5) 11.7 (7) 10.8 (7) 3.6 (2)	80.4 (41) 83.3 (50) 75.4 (49) 61.8 (34)	9.8 (5) 5.0 (3) 13.8 (9) 34.5 (19)
C-4	Student scores on a scale measuring their degree of satisfaction with their knowledge and skills development (a.g., changes in their breadth and depth of knowledge, changes in their communication skills).	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	7.6 { 4} 6.7 { 4} 3.1 { 2} 3.6 { 2}	82.4 (42) 85.0 (51) 83.1 (54) 65.5 (36)	9.8 (5) 8.3 (5) 13.8 (9) 30.9 (17)
 C-5 	Student scores on a scale measuring their degree of satisfaction with their personal development (e.g., changes in their ability to cope with new situations, changes in their self-concept).	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIR	5.9 (3) 5.0 (3) 6.3 (4) 1.8 (1)	86.3 (44) 86.7 (52) 84.4 (54) 65.5 (36)	7.8 (4) 8.3 (5) 9.4 (6) 32.7 (18)
C-6	Student scores on a scale measuring their degree of satisfaction with their social and cultural development (e.g., changes in their ability to get along with others, changes in their appreciation of cultural activities and artifacts).	PRESIDENT ACAD AFF STUDENT AFF BUDGET~FIN	3.9 (2) 5.0 (3) 3.1 (2) 1.8 (1)	86.3 (44) 85.0 (51) 87.7 (57) 67.3 (37)	9.8 (5) 10.0 (6) 9.2 (6) 30.9 (17)
C-7	Student scores on a scale measuring their degree of satisfaction with their progress in achieving their educational career goals.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	11.8 (6) 6.7 (4) 9.2 (6) 1.8 (1)	84.3 (43) 86.7 (52) 83.1 (54) 65.5 (36)	3.9 (2) 6.7 (4) 7.7 (5) 32.7 (18)
C-8	Student scores on a scale measuring the degree of satisfaction with their progress in achieving their occupational career goals.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	9.8 (b) 3.3 (2) 6.2 (4) 3.6 (2)	86.3 (44) 86.7 (52) 81.5 (53) 63.6 (35)	3.9 (2) 10.0 (6) 12.3 (8) 32.7 (18)
D+1	Number and percentage of former students (graduates and nongraduates) surveyed who were employed within a certain time period after leaving the institution.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	41.2 (21) 30.0 (18) 39.7 (25) 27.3 (15)	52.9 (27) 56.7 (34) 42.9 (27) 41.8 (23)	5.9 (3) 13.3 (8) 17.5 (11) 30.9 (17)
: , D-2 :	Number and parcentage of former students (graduates and nongraduates) surveyed who received the job of their first choice.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	19.6 (10) 10.0 (6) 23.4 (15) 9.1 (5)	72.5 (37) 83.3 (50) 59.4 (38) 54.5 (30)	7.8 (4) 6.7 { 4} 17.2 { 11 36.4 (20)
D-3	Average first salary of former students.	PRESIDENT ACAD AFF STUDEN1 AFF BUDGET: IN	27.5 (14) 16.9 (10) 37.5 (24) 21.8 (12)	62.7 (32) 71.2 (42) 51.6 (33) 47.3 (26)	9.8 (5) 11.9 (7) 10.9 (7) 30.9 (17)
0-4	income categories within a certain time period after leaving the insti- tution.	PRESIDE ACAD AFF STUDE.(T AF/ BUDGET-FIN	5.9 (3) 3.4 (2) 18.7 (12) 9.1 (5)	86.3 (44) 86.4 (51) 65.6 (42) 54.5 (30)	7.8 (4) 10.2 (6) 15.6 (10) 36.4 (20)
0-5	their degree of satisfaction with their job performance.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	2.0 (1) 3.3	88.0 (44) 88.3 (53) 82.5 (52) 65.5 (36)	10.0 (5) 8.3 (5) 9.5 (6) 30.9 (17)
D-6	•	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	2.1 (1) 0. (0) 4.7 (3) 5.5 (3)	91.7 (44) 91.5 (54) 89.1 (57) 61.8 (34)	6.2 (3) 8.5 (5) 6.3 (4) 32.7 (18)
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 	OFTCOME MEASURE		HAVE ACCESS DON'T HAVE NOT SURE (%) (n) (%)ACCESS(n) (%) (n)
D-7	Number and percentage of former students surveyed who are in management positions within a certain time period after leaving the institution.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	5.9 (3) 92.2 (47) 2.0 (1 1.7 (1) 91.4 (53) 6.9 (4 6.3 (4) 79.7 (51) 14.1 (9 7.3 (4) 58.2 (32) 34.5 (19
D-8	Number of voluntary/involuntary changes in <u>employment</u> within a given time period per former student surveyed.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	4.2 (2) 89.6 (43) 6.2 (3 1.7 (1) 91.4 (53) 6.9 (4 3.1 (2) 87.5 (56) 9.4 (6 3.6 (2) 69.1 (38) 27.3 (15
0-9	Number of voluntary/involuntary changes in <u>career field</u> within a given time period per former student surveyed.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	4.1 (2) 89.8 (44) 6.1 (3 1.7 (1) 91.4 (53) 6.9 (4 3.1 (2) 87.5 (56) 9.4 (6 3.6 (2) 69.1 (38) 27.3 (15
D-10	Average first salary expectations of students.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	6.0 (3) 82.0 (41) 12.7 (6 6.9 4) 86.2 (50) 5.9 (4 20.6 13) 68.3 (43) 11.1 (7 10.9 (6) 63.6 (35) 25.5 (14
D-11	Number and percentage of students surveyed who are aspiring to a particular type of occupational career.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	21.6 (11) 68.6 (35) 9.8 (5 20.9 (17) 54.2 (32) 16.9 (10 30.8 (20) 50.8 (33) 18.5 (12 23.6 (13) 54.5 (30) 21.8 (12
D-12	Number and percentage of students and/or former students surveyed who are seeking certain levels of employment.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	10.2 (5) 81.6 (40) 8.2 (4 12.3 (7) 75.4 (43) 12.3 (7 10.8 (7) 72.3 (47) 16.9 (11 10.9 (6) 60.0 (33) 29.1 (16
D-13	Number and percentage of former students (graduates and nongraduates) surveyed accepting employment in their major field of study.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	20.8 (10) 70.8 (34) 8.3 (4 20.3 (12) 67.8 (40) 11.9 7 27.7 (18) 55.4 (36) 16.9 (11 16.4 (9) 52.7 (29) 30.9 (17)
E-1	Number of students and/or former students reporting certain mental and physical illnesses as a percentage of all the students and/or former students surveyed.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	11.1 (5) 86.7 (39) 2.2 (1 3.4 (2) 83.1 (49) 13.6 (8 21.5 (14) 64.6 (42) 13.8 (9 9.1 (5) 65.5 (36) 25.5 (14)
E-2	Number and percentage of students surveyed who have participated in special mental health counseling programs within a certain period of time.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	10.6 (5) 83.0 (39) 6.4 (3) 10.2 (6) 81.4 (48) 8.5 (5) 26.2 (17) 67.7 (44) 6.2 (4) 10.9 (6) 65.5 (36) 23.6 (13)
C-3	Number and percentage of students and/or former students surveyed who belong to or hold office in religious organizations.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	2.1 (1) 91.5 (43) 6.4 (3) 1.7 (1) 86.4 (51) 11.9 (7) 13.8 (9) 76.9 (50) 9.2 (6) 3.6 (2) 67.3 (37) 29.1 (16)
E-4	Student and/or former student scores on a scale measuring their religious and spiritual attitudes and lefters.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	0. (0) 95.7 (45) 4.3 (2) 93.1 (54) 6.9 (4) 3.1 (2) 82.8 (53) 14.1 (9) 3.6 (2) 70.9 (39) 25.5 (14)
E-5	Number and percentage of students and/or former students surveyed who regularly attend religious services.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	0. (0) 95.6 (43) 4.4 (2) 1.7 (1) 93.2 (55) 5.1 (3) 3.1 (2) 89.2 (58) 7.7 (5) 3.6 (2) 78.2 (43) 18.2 (10)
E-6	Student and/or former student scores on a scale measuring their attitudes and beliefs toward new or different ideas and things.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	2.0 (1) 91.8 (45) 6.1 (3) 3.4 (2) 89.7 (52) 6.9 (4) 1.5 (1) 86.2 (56) 12.3 (8) 1.8 (1) 76.4 (42) 21.8 (12)

	HAVE ACCESS DON'T HAVE NOT SURE (%) (n) (%) ACCESS(n) (%) (n)
OUTCOME MEASURE	POCCIDENT
Student and/or former student scores on a scale measuring their per- captions about thier self-image.	PRESIDENT O. (0) 93.6 (44) 6.4 (3) ACAD AFF 7.0 (4) 80.7 (46) 12.3 (7) STUDENT AFF 9.2 (6) 81.5 (53) 9.2 (6) BUDGET-FIN 1.8 (1) 76.4 (42) 21.8 (12)
Number and percentage of students and/or former students surveyed who hold membership in social, charitable, political, or civic organizations.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 2.2 (1) 95.7 (44) 90.0 (54) 10.0 (6) 10.0 (6) 7.7 (5) 87.7 (57) 4.6 (3) 74.1 (40) 20.4 (11)
Number of awards and citations earned per student and/or former student for social contributions.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN 2.3 (1) 95.5 (42) 93.3 (56) 6.7 (4) 89.2 (58) 3.1 (2) 70.4 (38) 24.1 (13)
Student and/or former student scores on a scale measuring their perceptions about their ability to live and interact with other people.	PRESIDENT 0. (0) 93.7 (45) 6.2 (3) ACAD AFF 1.7 (1) 88.1 (52) 10.2 (6) STUDENT AFF 4.6 (3) 89.2 (58) 6.2 (4) BUDGET-FIN 1.8 (1) 78.2 (43) 20.0 (11)
Number and percentage of students and/or former students surveyed who have been candidates for positions in local, state, and federal government.	PRESIDENT ACAD AFF O. (0) 95.9 (47) 4.1 (2) ACAD AFF STUDENT AFF BUDGET-FIN 0. (0) 93.2 (55) 6.8 (4) 87.7 (57) 6.2 (4) 87.7 (57) 6.2 (4) 70.4 (38) 25.9 (14)
Number and percentage of students and/or former students surveyed who hold office in social, charitable, political, or civic organizations.	PRESIDENT 0. (0) 95.8 (46) 4.2 (2) ACAD AFF 1.7 (1) 91.5 (54) 6.8 (4) STUDENT AFF 4.6 (3) 92.3 (60) 3.1 (2) BUDGET-FIN 3.7 (2) 66.7 (36) 29.6 (16)
Number and percentage of students and/or former students surveyed who have participated in special social development programs (e.g., the Peace Corps, and VISTA).	PRESIDENT 4.1 (2) 91.8 (45) 4.1 (2) ACAD AFF 1.7 (1) 89.7 (52) 8.6 (5) STUDENT AFF 12.3 (8) 81.5 (53) 6.2 (4) BUDGET-FIN 5.6 (3) 64.8 (35) 29.6 (16)
Number and percentage of students and/or former students surveyed who have charged their political party affiliation within a certain period of time.	PRESIDENT 2.2 (1) 95.7 (44) 2.2 (1) ACAD AFF 1.7 (1) 94.9 (56) 3.4 (2) STUDENT AFF 1.5 (1) 95.4 (62) 3.1 (2) BUDGET-FIN 0. (0) 75.9 (41) 24.1 (13)
Amount of monetary contributions per student and/or former student made to political, charitable, and social organizations or special interest groups within a certain time period relative to income category.	PRESIDENT 0. (0) 95.7 (45) 4.3 (2) ACAD AFF 1.7 (1) 93.2 (55) 5.1 (3) STUDENT AFF 0. (0) 98.4 (63) 1.6 (1) BUDGET-FIN 1.9 (1) 77.8 (42) 20.4 (11)
Average amount of time devoted to political, charitable, and social organizations or special interest groups within a certain time period per student and/or former student.	PRESIDENT 0. (0) 95.7 (45) 4.3 (2) ACAD AFF 1.7 (1) 91.5 (54) 6.8 (4) STUDENT AFF 1.5 (1) 96.9 (53) 1.5 (1) BUCGET-FIN 1.9 (1) 77.8 (42) 20.4 (11)
Student and/or former student scores on a scale measuring their political attitudes and beliefs.	PRESIDENT 0. (0) 95.7 (45) 4.3 (2) ACAD AFF 3.4 (2) 89.7 (52) 6.9 (4) STUDENT AFF 1.5 (1) 95.4 (62) 3.1 (2) BUDCET-FIN 1.9 (1) 77.8 (42) 20.4 (11)
Number and percentage of students and/or former students surveyed who have used mechanisms of the political process (e.g., voted in elections, circulated petitions, attended hearings, written letters to their congressman).	PRESIDENT 0. (0) 95.8 (46) 4.2 (2) ACAD AFF 1.7 (1) 93.2 (55) 5.1 (3) STUDENT AFF 0. (0) 98.5 (64) 1.5 (1) BUDGET-FIN 3.7 (2) 79.6 (43) 16.7 (9)
Student and/or former student scores on a scale measuring their racial and ethnic attitudes and beliefs.	PRESIDENT 0. (0) 33.7 (45) 6.2 (3) ACAD AFF 3.4 (2) 83.1 (52) 8.5 (5) STUDENT AFF 0. (0) 96.9 (63) 3.1 (2) BUDGET-FIN 3.7 (2) 77.8 (42) 18.5 (10)
	Student and/or former student scores on a scale measuring their perceptions about there self-image. Aumber and percentage of students and/or former students surveyed who had membership in social, charitable, political, or civic organizations. Number of awards and citations earned per student and/or former student for social contributions. Student and/or former student scores on a scale measuring their perceptions about their ability to live and interact with other people. Number and percentage of students and/or former students surveyed who have been candidates for positions in local, state, and federal government. Number and percentage of students and/or former students surveyed who have been candidates for positions in local, state, and rederal government. Number and percentage of students and/or former students surveyed who have participated in special social development programs (e.g., the reace Corps, and VISTA). Number and percentage of students and/or former students surveyed who have charged their political party affiliation within a certain period of time. Amount of mometary contributions per student and/or former student made to political, charitable, and social organizations or special interest groups within a certain time period relative to income category. Average amount of time devoted to political, charitable, and social organizations or special interest groups within a certain time period ere student and/or former student scores on a scale measuring their political tititudes and beliefs. Student and/or former student scores on a scale measuring their political and ethnic attitudes and beliefs.

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	OUTCOME MEASURE		HAVE ACCESS	DON'T HAVE	NOT SURE
F-13	Student and/or former student scores on a scale measuring their ethical and moral attitudes and beliefs and their concern for human welfare.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	0. (0) 3.4 (2) 0. (0) 3.7 (2)	93.7 (45) 89.8 (53) 95.4 (62) 75.9 (41)	6.2 (3) 6.8 (4) 4.6 (3) 20.4 (11)
F-14	Student and/or former student scores on a scale measuring their current and desired social and economic level.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	0. { 0} 5.1 { 3} 4.7 { 3} 5.6 { 3}	93.9 (46) 88.7 (52) 90.6 (58) 75.9 (41)	6.1 (3) 6.8 (4) 4.7 (3) 18.5 (10)
F-15	Student and/or former student scores on a scale measuring their interest in and acquaintance with the arts, great books, and other cultural artifacts and activities.	PRESIDENT ACAD AF: STUDENT AFF BUDGET-FIN	0. (0) 1.7 (1) 4.7 (3) 5.6 (3)	94.0 (47) 91.7 (55) 90.6 (58) 77.8 (42)	6.0 (3) 6.7 (4) 4.7 (3) 16.7 (9)
F-16	Number of students and/or former students having a personal library of well-known literary works or pieces of art as a percentage of all students and/or former students surveyed.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	2.0 { 1} 1.7 { 1} 0. { 0} 3.7 { 2}	95.9 (47) 93.1 (54) 95.2 (60) 81.5 (44)	2.0 (1) 5.2 (3) 4.8 (3) 14.8 (8)
G-1	Number of normatriculating participants enrolled in instructional programs as a percentage of the total number of persons in those programs.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	70.0 (35) 45.8 (27) 50.0 (32) 56.4 (31)	22.0 (11) 39.0 (23) 39.1 (25) 25.5 (14)	8.0 (4) 15.3 (9) 10.9 (7) 18.2 (10)
6-2	Nonmatriculating participant scores on a scale measuring their degree of satisfaction with their educational experience.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	6.1 (3) 5.1 (3) 7.8 (5) 5.5 (3)	89.8 (44) 84.7 (50) 82.8 (53) 69.1 (38)	4.1 (2) 10.2 (6) 9.4 (6) 25.5 (14)
G-3	Number and Percentage of normatriculating participants surveyed who received a promotion and/or salary increase as a result of job-related educational experiences.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	0. (0) 1.7 (1) 1.6 (1) 3.6 (2)	98.0 (49) 89.7 (52) 92.2 59) 69.1 (38)	2.0 (1) 8.6 (5) 6.3 (4) 27.3 (15)
G-4	Scores of nonmatriculating participants, who are working or have returned to their job, on a scale measuring their satisfaction with their job performance as a result of job-related educational experiences.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	0. { 0} 0. { 0} 1.6 { 1} 1.8 { 1}	98.0 (48) 93.1 (54) 93.7 (60) 71.4 (40)	2.0 (1) 6.9 (4) 4.7 (3) 26.8 (15)
G-5	Average amount of time per faculty/staff member spent in selected educational activities for their personal educational growth and development while at the institution.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	10.2 (5) 8.5 (5) 15.6 (10) 21.8 (12)	83.7 (41) 76.3 (45) 78.1 (50) 56.4 (31)	6.1 (3) 15.3 (9) 6.3 (4) 21.8 (12)
G-6	Faculty/staff scores on a scale measuring their perceptions of their educational growth and development as a result of their experiences while at the institution.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	2.0 { 1} 3.4 { 2} 4.7 { 3} 9.1 { 5}	92.0 (46) 88.1 (52) 89.1 (57) 63.6 (36)	6.0 (3) 8.5 (5) 6.3 (4) 27.3 (15)
H-1	Average amount of time faculty/staff and students spent in selected community service activities (e.g., giving professional service and advice outside the institution) within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	12.5 (6) 11.5 (7) 17.2 (11) 9.3 (5)	70.8 (34) 77.0 (47) 73.4 (47) 64.8 (35)	16.7 (8) 11.5 (7) 9.4 (6) 25.9 (14)
H-2	Estimated replacement value of specific community services received by individuals or organizations that receive the services.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	2.0 { 1} 3.4 { 2} 3.1 { 2} 1.9 { 1}	93.9 (46) 89.8 (53) 84.4 (54) 75.9 (41)	4.1 (2) 6.8 (4) 12.5 (8) 22.2 (12)
H-3	Ratio of total income for community services to total budget for community services.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	34.0 (17) 23.7 (14) 14.8 (9) 27.8 (15)	54.0 (27) 69.5 (41) 73.8 (45) 59.3 (32)	12.0 (6) 6.8 (4) 11.5 (7) 13.0 (7)



	OUTCOME MEASURE		HAVE ACCESS	DON'T HAVE	NOT SURE
H-4	Number of faculty/staff on leave from the institution to local, state, and national governments in a policy, management or technical role.	PRESIPS T ACAD AFF STUDENT AFF BUDGET-FIN	72.0 (36) 73.3 (44) 49.2 (32) 70.4 (38)	26.0 (13) 21.7 (13) 43.1 (28) 22.2 (12)	2.0 (1) 5.0 (3) 7.7 (5) 7.4 (4)
H-5	Number of individuals not associated with the institution who were served by a particular support program (e.g., the computer center, the library, the health services staff, etc.) as a percentage of the total number of individuals served within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF RUDGET-FIN	34.0 (17) 24.6 (15) 25.0 (16) 35.2 (19)	62.0 (31) 63.9 (39) 57.8 (37) 42.6 (23)	4.0 (2) 11.5 (7) 17.2 (11) 22.2 (12)
H-6	Estimated monetary value of specific community services (e.g., health services, computer services, etc.) offered relative to other comparable services offered elsewhere.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIH	18.7 (9) 6.6 (4) 22.2 (14) 18.5 (10)	75.0 (36) 86.9 (53) 68.3 (43) 63.0 (34)	6.2 (3) 6.6 (4) 9.5 (6) 18.5 (10)
H-7	Number and percentage of persons attending self of extramural, cultural, and recreational events who are not students ormbers of the institution's faculty/staff.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	10.2 (5) 18.3 (11) 21.9 (14) 14.8 (8)	77.6 (38) 76.7 (46) 67.2 (43) 68.5 (37)	12.2 { 6} 5.0 { 3} 10.9 { 7} 16.7 { 9}
I-1	Number and percentage of students who are employed in businesses, agencies and organiztions in the community.	PRESIDENT ACAD AFF STUDENT AFF BUDGET~FIN	21.6 (?!) 11.5 (7) 18.5 (12) 20.0 (11)	60.8 (31) 77.0 : 57 61.5 (43) 50.9 (28)	17.6 (9) 11.5 (7) 20.0 (13) 29.1 (16)
I-2	Number and percentage of graduates of a particular graduating class who are employed in-state versus out-of-state.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	22.C (1) 18.J (11) 30.8 (20) 14.5 (8)	68.0 (34) 73.8 (45) 55.4 (36) 56.4 (31)	10.0 (5) 8.2 (5) 13.8 (9) 29.1 (16)
I-3	Total dollar amount of goods and services purchased by the institution from a particular sector of the community within a certain time period.	PRESIDENT ACAD AFF STUCENT AFF BUDGET-FIN	36.5 (19) 1.5 (7) 2.3.6 (17) 49.1 (27)	51.9 (27) 78.7 (48) 57.8 (37) 36.4 (20)	11.5 (6) 9.8 (6) 15.6 (10) 14.5 (8)
I-4	Faculty/staff and student expenditures in the community within a certain time period.	PRESIDEN! ACAD AFF STUDENT AFF BUDGET-FIN	11.5 (6) 6.6 (4) 7.7 (5) 16.4 (9)	76.9 (40) 88.5 (54) 80.0 (52) 67.3 (37)	11.5 (6) 4.9 (3) 12.3 (8) 16.4 (9)
I-5	Estimated dollar amount of the institution's payroll as a percentage of the estimated total community payroll.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	\$1.0 (26) 23.9 (14) 43.1 (28) 32.7 (18)	47.1 (24) 68.9 (42) 50.8 (33) 43.6 (24)	2.0 (1) 8.2 (5) 6.2 (4) 23.6 (13)
I-6	Amount of land removed from the community tax base as a result of the existence of the institution.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	69.2 (36) 34.4 (21) 54.7 (36) 80.0 (44)	26.9 (14) 60.7 (37) 35.9 (23) 16.4 (9)	3.8 { 2} 4.9 { 3} 9.4 { 6} 3.6 { 2}
1-7	Employers scores on a scale measuring their degree of satisfaction with the performance of students and/or former students on the job.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	14.9 (7) 6.6 (4) 13.8 (9) 7.3 (4)	80.9 (38) 83.6 (51) 75.4 (49) 67.3 (37)	4.3 { 2} 9.8 { 6} 10.8 { 7} 25.5 { 14}
1-8	Amount of private housing owned or rented by students and/or faculty/staff as a percentage of the total housing available in the community.	PRESIDENT ACAD AFF SIUDENT AFF BUDGET-FIN	18.0 (9) 5.0 (3) 17.5 (11) 10.9 (6)	80.0 (40) 88.3 (53) 73.0 (46) 65.5 (36)	2.0 (1) 6.7 (4) 9.5 (6) 23.6 (13)
1-9 FR	Value of community business properties attributable to institution-related expenditures.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	6.2 { 3} 5.0 { 3} 9.4 { 6} 5.5 { 3}	85.4 (41) 91.7 (55) 75.0 (48) 74.5 (41)	8.3 (4) 3.3 (2) 15.6 (10) 20.0 (11)

	OUTCOME MEASURE		HAVE ACCESS	DON'T HAVE (%) ACCESS (n)	NOT SURE
1-10	Amount and percentage of the local credit base due to institution-related deposits in community banks.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	12.2 (6) 6.7 (4) 16.9 (11) 9.1 (5)	81.6 (40) 88.3 (53) 75.4 (49) 67.3 (37)	6.1 (3) 5.0 (3) 7.7 (5) 23.6 (13)
I-11	Extent to which the presence of the institution influences businesses locating in the community.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	9.8 (5) 3.3 (2) 14.1 (9) 3.6 (2)	76.5 (39) 82.0 (50) 68.7 (44) 63.6 (35)	13.7 (7) 14.8 (9) 17.2 (11) 32.7 (18)
1-12	Amount and percentage of federal revenue sharing allocation attributable to the institution's presence in the community.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	6.0 (3) 8.3 (5) 18.5 (12) 7.3 (4)	80.0 (40) 85.0 (51) 64.6 (42) 67.3 (37)	14.0 (7) 6.7 (4) 16.9 (11) 25.5 (14)
I-13	Institution-related cont.ioutions as a percentage of total community fund raising (e.g., United Fund program).	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	42.0 (21) 25.0 (15) 43.1 (28) 40.0 (22)	54.0 (27) 68.3 (41) 44.6 (29) 41.8 (23)	4.0 (2) 6.7 (4) 12.3 (8) 18.2 (10)
1-14	Geographic distribution of alumni.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	55.8 (29) 37.7 (23) 52.3 (34) 50.9 (28)	36.5 (19) 55.7 (34) 36.9 (24) 29.1 (16)	7.7 (4) 6.6 (4) 10.8 (7) 20.0 (11)
1-15	Community attitudes toward the institution (e.g., attitudes toward the institution's contribution to community social/cultural activities and the institution's impact on the amount of crime in the community).	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	24.0 (12) 11.7 (7) 21.9 (14) 18.2 (10)	58.G (29) 78.3 (47) 59.4 (38) 47.3 (26)	18.0 (9) 10.0 (6) 18.7 (12) 34.5 (19)
1-16	Number of persons from the community employed by the institution.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	84.6 (44) 68.3 (41) 67.7 (44) 83.6 (46)	15.4 (8) 25.0 (15) 29.2 (19) 10.9 (6)	0. (0) 6.7 (4) 3.1 (2) 5.5 (3)
J-1	Distribution of publications by type of publication (e.g., books, monographs, etc.) per student. former student, and/or faculty member within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	18.7 (9) 14.8 (9) 15.6 (10) 16.7 (9)	75.0 (36) 75.4 (46) 67.2 (43) 59.3 (32)	6.2 (3) 9.8 (6) 17.2 (11) 24.1 (13)
<i>3</i> -2	Number of times a given publication is cited in bibliographies of other authors within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	2.1 (1) 0. (0) 0. (0) 3.7 (2)	95.7 (45) 93.3 (56) 84.6 (55) 70.4 (38)	2.1 (1) 6.7 (4) 15.4 (10) 25.9 (14)
J-3	Number of articles published per faculty/staff member in prestigious journals within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	40.0 (20) 49.2 (30) 30.8 (20) 22.2 (12)	58.0 (29) 39.3 (24) 60.0 (39) 51.9 (28)	2.0 (1) 11.5 (7) 9.2 (6) 25.9 (14)
3-4	Number of pavers presented at professional meeting per student, former student, and/or faculty/staff member within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	28.6 (14) 26.2 (16) 26.2 (17) 13.0 (7)	65.3 (32) 59.0 (36) 58.5 (38) 53.7 (29)	6.1 (3) 14.8 (9) 15.4 (10) 33.3 (18)
J-5	Number of awards and citations received by students, former students, and/or faculty members for their research and art products within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF BUOGET-FIN	14.3 (7) 19.7 (12) 12.3 (8) 13.0 (7)	81.6 (40) 63.9 (39) 69.2 (45) 53.7 (29)	4.1 (2) 16.4 (10) 18.5 (12) 33.3 (18)
J-6	Average amount of faculty time spent in selected research and art producing activities.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	24.5 (12) 21.3 (13) 15.6 (10) 22.2 (12)	69.4 (34) 68.9 (42) 70.3 (45) 50.0 (27)	6.1 (3) 9.8 (6) 14.1 (9) 27.8 (15)
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	OUT COME MEASURE		HAVE ACCESS (%) (n)	DON'T HAVE (%) ACCESS(n)	NOT SUPE
J-7	Number of proposals funded for certain purposes (e.g., research versus training) by level of funding as a percentage of all proposals submitted.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	54.9 (28) 56.7 (34) 47.7 (31) 63.6 (35)	43.1 (22) 36.7 (22) 38.5 (25) 29. i (16)	2.0 (1) 6.7 (4) 13.8 (9) 7.3 (4)
J-8	Total dollar amount of gifts and/or grants received for certain purposes (e.g., research versus training) as a percentage of total budget within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	73.1 (38) 60.0 (36) 60.0 (33) 83.6 (46)	26.9 (14) 33.3 (20) 35.4 (23) 10.9 (6)	0. (0) 6.7 (4) 4.6 (3) 5.5 (3)
J-9	Number and percentage of faculty/staff surveyed who have created films, taped lectures, etc. within a cortain time period.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	36.7 (18) 41.0 (25) 32.3 (21) 22.2 (12)	57.1 (38) 50.8 (31) 53.8 (35) 44.4 (24)	6.1 (3) 8.2 (5) 13.8 (9) 33.3 (18)
J-10	Number of patents and/or copyrichts received per student, former student, and/or faculty member within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF BUDGET FIN	14.6 (7) 13.6 (8) 13.8 (9) 14.5 (8)	81.2 (39) 76.3 (45) 72.3 (47) 60.0 (33)	4.2 (2) 10.2 (6) 13.8 (9) 25.5 (14)
J-11	Number of books or monographs written by faculty/staff that are published commercially within a certain time period.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	45.1 (23) 57.4 (35) 31.2 (20) 29.1 (16)	51.0 (26) 26.2 (16) 56.2 (36) 45.5 (25)	3.9 (2) 16.4 (10) 12.5 (8) 25.5 (14)
J-12	Judgements of peer groups and/or potential beneficiary groups regarding the worth/impact of research project results.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	12.0 (6) 10.0 (6) 14.1 (9) 9.1 (5)	78.0 (39) 83.3 (50) 75.0 (48) 65.5 (36)	10.0 (5) 6.7 (4) 10.9 (7) 25.5 (14)
J-13	Number and percentage of graduates · :gaged in research activities.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	6 1 (3) 8.3 (5) 12.5 (8) 10.9 (6)	85.7 (42) 80.0 (48) 73.4 (47) 63.6 (35)	8.2 (4) 11.7 (7) 14.1 (9) 25.5 (14)
J-14	Number and percentage of faculty /staff and students invited to participate in professional meetings and conferences.	PRESIDENT ACAD AFF STUDENT AFF BUDGET-FIN	31.4 (16) 28.3 (17) 27.0 (17) 16.4 (9)	60.8 (31) 51.7 (31) 60.3 (36) 56.4 (31)	7.8 (4) 20.0 (12) 12.7 (8) 27.3 (15)
J-15	Number and percentage of graduates who have produced or exhibited certain art forms (e.g., paintings, sculptures, plays, etc.).	PRESIDENT ACAD AFF STUDENT AFF BUDGET FIN	18.0 (9) 5.2 (3 12.7 (8) 5.5 (3)	76.0 (38) 77.6 (45) 77.8 (49) 65.5 (36)	6.0 (3) 17.2 (10) 9.5 (6) 29.1 (16)
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TABLE C.3

The Percentage and Number of Responses to the "Needs" Question, by Administrators in Community Colleges, Four-Year Colleges, and Universities*



^{*}It should be noted in reviewing this table that if a respondent did not record a choice for any measure in the questionnaire, the no response was not considered in calculating the distribution of responses across the question categories in the table.

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	THE TOTAL AND TH	T	NEED	WOULD 1KE	DON'T NEED
	OUTCOME MEASURE	#	(%) (n)	(%) (n)	(%) (n)
A-1	Student scores on tests that indicate development in their breadth of	COMM COLL	41.9 (26)	37.1 (23)	21.0 (13)
	knowledge about facts and principles across several broad fields of study (e.g., the humanities, the physical sciences, etc.).	4-YR COLL	30.4 (28)	46.7 (43)	22.8 (21)
		UNIVERSITY	30.0 (24)	36.2 (29)	33.7 (27)
A-2	Student scores on tests that indicate development in their depth of know-	COMM COLL	25 5 (22)	40 4 (20)	756 7565
~ -	ledge concerning facts and principles in the particular fields in which	11	35.5 (22)	48.4 (30)	16.1 (10)
	a student el cts to study.	4-YR COLL	32.6 (30)	41.3 (38)	26.1 (24)
		UNIVERSITY	28.7 (23)	38.7 (31)	32.5 (26)
A-3	Number of students passing certification or licensing exams (e.g., bar	COMM COLL	54.8 (34)	30.6 (19)	14.5 (9)
	exam, CPA, LPN) on the first attempt as a percentage of all students	4-YR COLL	16.7 (15)	56.7 (51)	26.7 (24)
	taking the exam.	UNIVERSITY	25.0 (20)	50.0 (40)	25.0 (20)
			1 W2 2 / 15 Y	16 7705	754
A-4	Student scores on tests that indicate their ability to apply general or specialized knowledge to a problem and to implement a solution.	COMM COLL	34.4 (21) 25.0 (23)	42.6 (26) 48.9 (45)	25.0 (14) 26.1 (24)
	apostarrizon kilomrongo eg a proprem una es limpromoto a sociativim	4-YR COLL	1	42.5 (34)	1
		UNIVERSITY	25.0 (20)	42.5 (34)	32.5 (26)
A-5	Student scores on tests that indicate thier ability to analyze problems	COMM COLL	34.4 (21)	41.0 (25)	24.6 (15)
	(e.g., the recognition of biased points in an article or speech).	4-YR COLL	22.0 (20)	50.5 (46)	27.5 (25)
		UNIVERSITY	25.3 (20)	41.8 (33)	32.9 (26)
		COLET COL I	1- A A 7 A	36 1 700	63 6 736
A-6	Number of paients awarded and copyrights obtained by students and/or former students within a certain time period.	COMM COLL	0.0 (0)	36.1 (22) 42.4 (39)	63.9 (39)
	Tornier Students within a tertain time period.	4-YR COLL UNIVERSITY	3.3 (3) 7.5 (6)	36.2 (29)	54.3 (50) 56.2 (45)
		UNIVERSITY	7.5 (0)	30.2 (25)	30.2 (43)
A-7	Student scores on tests that indicate the rability to read, write,	COMM COLL	65.6 (40)	18.0 (11)	16.4 (10)
1	speak, and/or listen.	4-YR COLI.	54.3 (50)	25.0 (23)	20.7 (19)
		UNIVERSITY	41.2 (33)	35.0 (28)	23.7 (19)
A-8	Number and percentage of students surveyed who have participated in	COMM COLL	[00.0 (14)	1 40 0 (20)	1 07 0 (27)
"	activities that enhance their communication skills (e.g., debate, en-	4-YR COLL	23.0 (14)	49.2 (30)	27.9 (17)
	counter groups, etc.).	UNIVERSITY	22.0 (20)	37.4 (34) 50.0 (40)	49.7 (37) 43.7 (35)
	-	DWIVERSIII	6.2 (5)	50.0 (40)	43.7 (33)
A-9	Student scores on tests that indicate their ability to perform tasks requiring physical dexterity and skill.	COMM COLL	2.8 (6)	47.5 (29)	42.6 (26)
1	requiring physical devectory and skills	4-YR COLL	4.3 (4)	31.5 (29)	64.1 (59)
İ		UNIVERSITY	2.5 (2)	18.7 (15)	78.7 (63)
A-10	Number and percentage of students surveyed who have participated in	COMM COLL	11.5 (7)	45.9 (28)	42.6 (26)
:	activities that enhance thier athletic skills (e.g., intramural and	4-YR COLL	13.2 (12)	40.7 (37)	46.2 (42)
: }	varsity sports).	UNIVERSITY	3.7 (3)	47.5 (38)	48.7 (39)
İ					
B-1	Number and percentage of students surveyed identifying a certain degree.	COMM COLL	52.5 (32)	39.3 (24)	8.2 (5)
U-1	diploma, or certificate as the highest degree planned.	4-YR COLL	42.9 (39)	45.1 (41)	12.1 (11)
!		UNIVERSITY	40.0 (32)	41.2 (33)	18.7 (15)
;					
B-2	Number and percentage of students surveyed who have changed majors (lower divison, upper division, and/or graduate) within a certain time period.	COMM COLL	29.5 (18)	54.1 (33)	15.4 (10)
- •	ulvisum, upper ulvisium, anatur graduate) mitima tertain time periodi	4-YR COLL UNIVERSITY	33.0 (30) 46.2 (37)	46.2 (42) 35.0 (28)	20.9 (19)
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108

	OUTCOME VEASURE		NEED	MONTO FIKE	DON'T NEED
H-3	Number and percentage of students surveyed who are taking noncredit, ince-	COMM COLL	(\$)_(n) 55.7 (34)	1 20:1 (SS) (X) (V)	1 8'S (2) - 1
•-•	pendent study, or special courses.	4-YA COLL	50.5 (46)	30.8 (28)	18.7 (17)
		UNIVERSITY	39.2 (31)	36.7 (29)	24.7 (19)
		aus a Curas i 1		423	
B-4	Number of awards and citations received per student and/or former student	CONN COLL	120 7 721	1 4 4 44	
	for their academic performance.	4-YR COLL	23.0 (14) 23.1 (21)	45.9 (28) 48.4 (44)	31.1 (19)
		UNIVERSITY	7.6 (6)	57.0 (45)	28.6 (26) 35.4 (28)
				0710 (40)	36:4 /20/
	and development the second of				-
8-5	Member of students receiving a degree, diploma, and certificate within a cartain time period.	CONN COLL	73.8 (45)	19.7 (12)	6.6 (4)
		4-YR COLL UNIVERSITY	69.7 (62)	21.3 (19)	9.0 (8) 6.2 (U)
		OWIACHDILL	71.2 (57)	22.5 (18)	0.5 (0)
B-6	Average amount of time it takes a student to earn a degree, diploma, or curtificate.	COMM COLL	60.7 (37)	32.8 (20)	6.6 (4)
-		4-YR COLL	47.3 (43)	41.8 (38) 35.4 (28)	11.0 (10)
		UNIVERSITY	53.2 (4?)	35.4 (88)	11.4 (3)
-	·			ulijudga biyobyya terbil	desember Sentent
B-7	Rimber of students graduating from the institution after a certain period of time as a percentage of their entering class.	COMM COLL	62.3 (38)	27.9 (17)	9.8 (6)
	of time as a percentage of their entering class.	4-YR COLL	63.7 (58)	27.5 (25)	8.8 (8)
		UNIVERSITY	58.7 (47)	33.7 (27)	7.5 (6)
8.8	Numbur and percentage of graduates for the year who transferred from another school.	COMM COFF	47.6 (29)	41.0 (25)	11.5 (7)
	amplier sensor.	4-YR COLL	56.0 (51)	31.9 (29)	12.1 (11)
		UNIVERSITY	62.5 (50)	31.2 (25)	6.2 (5)
				· · · · ·	
B-9	Number and percentage of students leaving the institution prior to receiving	COMM COLL	73.8 (45)	21.3 (13)	4.9 (3)
i	a degree, diploma or certificate during a particular academic term or year.	4-YR COLL	71.4 (65)	22.0 (20)	6.6 (6)
		UNIVERSITY	70.0 (56)	26.2 (21)	3.7 (3)
				نطلت راجي والنبوء مور فاستراس	
8-10	Number of graduates accepted for study in another educational program that will result in a degree, diploma or certificate as a percentage of those	COMM COLL	57.4 (35)	31.1 (19)	11.5 (7)
	applying.	4-YR COLL	35.6 (32)	47.8 (43)	16.7 (15)
		UNIVERSITY	30.8 (24)	50.0 (39)	19.5 (19)
B-11	Number of graduates working toward or receiving another educational degree, diploma, or certificate efter a certain time period following graduation	COMM COLL	33.3 (20)	48.3 (29)	18.3 (11)
	as a percentage of their graduating class.	4-YR COLL UNIVERSITY	26.4 (24) 16.2 (13)	58.2 (53) 61.2 (49)	15.4 (14) 22.5 (18)
		CHIACHSTIA	16.2 (13)	01.2 (49)	22.5 (10)
		come con	[90 0 /60)	48 A (00)	1 2 2 /101
B-12	Student and/or former student scores on a scale measuring their perceptions of their educational achievement.	COMM COLL	32.8 (20) 25.3 (23)	45.9 (28) 53.8 (49)	21.3 (13) 20.9 (19)
	 	UNIVERSITY	25.3 (23)	42.5 (34)	30.0 (24)
		OUIACUSTIL	21.0 (22)	45.0 (34)	90.0 (64)
			F-90 - 78-51	1 AF & /AA1	1 01 0 /101
B-13	Student scores on a scale measuring their perceptions about the amount of learning that took place in certain activities sponsored by the institution	COMM COLL	32.8 (20) 25.6 (23)	45.9 (28) 48.9 (44)	21.3 (13) 25.6 (23)
	outside of formal instruction.	4-YR COLL UNIVERSITY	25.6 (23)	47.5 (38)	25.0 (20)
		CUTACUSTIA	27.0 (86)	4710 (00)	24.4 /241
					
B-14	Student scores on a scale measuring their interest in continued self- initiated study and inquiry.	COMM COLL	27.9 (17)	52.5 (32)	19.7 (12)
	THE STATE OF THE STATE S	4-YR COLL UNIVERSITY	17.8 (16) 31.2 (25)	53.3 (48) 41.2 (33)	28.9 (26) 27.5 (22)
		white with the file			1
	thunker and management of formers absolute assuranced the dadd-cabe that their	601E1 65::	VERNEY	En y 7491	114.8 (9)
C-1	Number and percentage of former students surveyed who indicate that they would send their children to the same school.	COMM COLL	24.6 (15)	56.5 (52)	14.1 (13)
		4-YR COLL UNIVERSITY	25.0 (20)	60.0 (48)	15.0 (12)
C.	110	CHIACKSTIA	(30)		1.00
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*Full Track Provided by EBIC

	OUTCOME MEASURE		NEEO (%) (n)	WOULD LIKE	DON'T NEED (X) (n)
C- ?	Average amount of alumni gifts within a certain time period after	COMM COLL	20.0 (12)	43.3 (26)	
	graduation.	4-YR COLL	30.4 (28)	48.9 (45)	36.7 (22) 20.7 (19)
		UNIVERSITY	26.2 (21)	51.2 (41)	22.5 (18)
		UNIVERSITY	20.2 (21)	31.2 (41)	22.5 (18)
C-3	Student and/or former student scores on a scale measuring their degree	COMM COLL	52.5 (32)	37.7 (23)	9.8 (6)
	of satisfaction with their overall educational experience.	4-YR COLL	46.7 (43)	45.7 (42)	7.6 (7)
		UNIVERSITY	36.2 (29)	48.7 (39)	15.0 (12)
C-4	Chulanh sanns a santa massuut a tilda haran a				
U-4	Student scores on a scale measuring their degree of satisfaction with their knowledge and skills development (e.g., changes in their breadth and depth	COMM COLL	45.9 (28)	42.6 (26)	11.5 (7)
	of knowledge, changes in their communication skills).	4-YR COLL	37.0 (34)	48.9 (45)	14.1 (13)
		UNIVERSITY	32.5 (26)	41.2 (33)	26.2 (21)
C-5	Student scores on a scale measuring their degree of satisfaction with their	COMM COLL	39.3 (24)	45.9 (28)	14.8 (9)
	personal development (e.g., changes in their ability to cope with new situations, changes in their self-concept).	4-YR COLL	32.6 (30)	52.2 (48)	15.2 (14)
1	oranger and and oranger of the control of the contr	UNIVERSITY	27.5 (22)	41.2 (33)	31.2 (25)
				1 (66)	1 0112 (207
C-6	Student scores on a scale measuring their degree of satisfaction with their social and cultural development (e.g., changes in their ability to get along	COMM COLL	37.7 (23)	44.3 (27)	18.0 (11)
l	with others, changes in their appreciation of cultural activities and	4-YR COLL	31.5 (29)	52.2 (48)	16.3 (15)
	artifacts).	UNIVERSITY	25.0 (20)	42.5 (34)	32.5 (26)
C-7	Children agains on a supla magaintan that danna ar agtisfaction with their				
L-/	Student scores on a scale measuring their degree of satisfaction with their progress in achieving Cheir educational career goals.	COMM COLL	54.1 (33)	36.1 (22)	9.8 (6)
		4-YR COLL	42.4 (39)	48.9 (45)	8.7 (8)
		UNIVERSITY	35.0 (28)	42.5 (34)	22.5 (18)
C-8	Student scores on a scale measuring their degree of satisfaction with their	COURT COLL	1 7045	1 00 1 700	, , , , , , , , , , , , , , , , , , ,
	progress in achieving their occupational career goals.	COMM COLL	55.7 (34) 42.4 (39)	36.1 (22)	8.2 (5)
		4-YR COLL UNIVERSITY	35.0 (28)	47.8 (44) 45.0 (36)	9.8 (9)
		UNIVERSITY	35.0 (26)	45.0 (36)	20.0 (16)
D-1	Number and percentage of former students (graduates and nongraduates) surveyed	COMM COLL	65.6 (40)	32.8 (20)	1.6 (1)
	who were employed within a certain time period after leaving the institution.	4-YR COLL	38.0 (35)	50.0 (46)	12.0 (11)
	tation.	UNIVERSITY	29.1 (23)	53.2 (42)	17.7 (14)
0-2	Number and percentage of former students (graduates and nongraduates)	COMM COLL	47.5 (29)	37.7 (23)	14.8 (9)
	surveyed who received the job of their first choice.	4-YR COLL	28.3 (26)	51.1 (47)	20.7 (19)
		UNIVERSITY	16.5 (13)	57.0 (45)	26.6 (21)
	Augus and Standard				
0-3	Average first salary of former students.	COMM COLL	49.2 (30)	41.0 (25)	9.8 (6)
		4-YR COLL UNIVERSITY	18.5 (17)	66.3 (61)	15.2 (14)
		CHIACKSTIA	17.7 (14)	55.7 (44)	26.6 (21)
D-4	Distribuiton of former students (graduates and nongraduates) across income categories within a certain time period after leaving the insti-	COMM COLL	38.3 (23)	45.0 (27)	16.7 (10)
	tution.	4-YR COLL	13.0 (12)	69.6 (64)	17.4 (16)
		UNIV" . "ITY	16.5 (13)	57.0 (45)	26.6 (21)
D-5	Former students (graduates and nongraduates) scores on a scale measuring their degree of satisfaction with their job performance.	COMM COLL	44.3 (27)	37.7 (23)	18.0 (11)
	simily degrees of succession with their succession between	4-YR COLL	13.2 (12)	62.6 (57)	24.2 (22)
		UNIVERSITY	15.2 (12)	45.6 (36)	39.2 (31)
D-6	Number of professional occupation awards and citations received per				
-	former student surveyed.	COMM COLL	16.4 (10)	47.5 (29)	36.1 (22)
		4-YR COLL	6.5 (6)	58.7 (54)	34.8 (32)
0	111	UNIVERSITY	7.6 (6)	51.9 (41)	40.5 (32)
FRĬ		11	·		

D-7	OUTCOME MEASURE Number and percentage of former students surveyed who are in management		(%) (n)	WOULD LIKE (%) (n)	DON'T NE
	positions within a certain time period after leaving the institution.	COMM COLL	23.3 (14)	51.7 (31)	25.0 (1
		4-YR COLL	20.7 (19)	60.9 (56)	18.5 (1
		UNIVERSITY	10.1 (8)	57.0 (45)	32.9 (2
D-8	Number of volunter development of an analysis of an				
D-0	Number of voluntary/involuntary changes in employment within a given time period per former student surveyed.	COMM COLL 4-YR COLL	26.2 (16) 7.6 (7)	49.2 (30)	24.6 (1
ļ		UNIVERSITY	1	54.3 (50)	38.0 (3
		CHIVERSIII	10.1 (8)	35.4 (28)	54.4 (4
D-9	Number of voluntary/involuntary changes in career field within a given	COMM COLL	27.9 (17)	49.2 (30)	1 00 0 19
	time period per former student surveyed.	4-YR COLL	13.0 (12)	51.1 (47)	23.0 (1
		UNIVERSITY	8.9 (7)	43.0 (34)	35.9 (3 48.1 (3
					
0-10	Average first salary expectations of students.	COMM COLL	31.1 (19)	49.2 (30)	19.7 (1
		4-YR COLL	12.0 (11)	60.9 (56)	27.2 (2
		UNIVERSITY	13.9 (11)	44.3 (35)	41.8 (3
0-11	Number and percentage of students surveyed who are aspiring to a particular type of occupational career.	COMM COLL	63.9 (39)	27.9 (17)	8.2 (
1		4-YR COLL	52.2 (48)	40.2 (37)	7.6 (
		UNIVERSITY	45.0 (36)	36.2 (29)	18.7 (1
D-12	Number and percentage of students and/or former students surveyed who are				
0-12	seeking certain levels of employment.	COMM COLL	47-0 (25)	42.6 (26)	16.4 (1
		UNIVERSITY	34.4 (31) 20.0 (16)	44.4 (40) 40.0 (32)	21.1 (1: 40.0 (3:
			[400 (10)	1010 (02)	1 40.0 (30
0-13	Number and percentage of former students (graduates and nongraduates)	COMM COLL	49.2 (30)	36.1 (22)	14.8 (
	surveyed accepting employment in their major field of study.	4-YR COLL	38.5 (35)	50.5 (46)	11.0 (10
		UNIVERSITY	28.7 (23)	43.7 (35)	27.5 (2
E-1	Number of students and/or former students reporting certain mental and physical illnesses as a percentage of all the students ard/or former	COMM COLL	11.9 (7)	40.7 (24)	47.5 (20
	students surveyed.	4-YR COLL	14.1 (13)	34.8 (32)	51.1 (47
		UNIVERSITY	15.0 (12)	27.5 (22)	57.5 (40
E-2	Number and percentage of students surveyed who have participated in				
	special mental health counseling programs within a certain period of	COMM COLL	10.2 (6)	47.5 (28)	42.4 (25
	time.	4-YR COLL	18.5 (17)	29.3 (27)	52.2 (48
		UNIVERSITY	16.2 (13)	22.5 (18)	61.2 (49
E-3	Number and percentage of students and/or former students surveyed who	COMM COLL		T 05 4 /15	
- 7	belong to or hold office in religious organizations.	4-YR COLL	1.7 (1)	25.4 (15) 37.0 (34)	72.9 (43 58.7 (54
		UNIVERSITY	8.7 (7)	26.2 (21)	65.0 (52
E-4	Student and/or former student scores on a scale measuring their religious and spiritual attitudes and beliefs.	COMM COLL	0.0 (0)	33.9 (20)	66.1 (39
-		4-YR COLL	9.8 (9)	30.4 (28)	59.8 (55
		UNIVERSITY	11.2 (9)	23.7 (19)	65.0 (5?
	Birton and source to a contract and for common state to				
E-5	Number and percentage of students and/or former students surveyed who regularly attend religious services.	COMM COLL	7.6 (7)	23.7 (14)	76.3 (45
		4-YR COLL UNIVERSITY	5.0 (4)	21.7 (20) 32.5 (26)	70.7 (65 62.5 (50
		GITTERSITY		02.0 (20)	UE.5 (50
	Chillian and fair farman children annua an a seela married in Abada (1995)	COMM COLL	8.5 (5)	57.6 (34)	33.9 (20
E-6	Student and/or former student scores on a scale measuring their attitudes and beliefs toward new or different ideas and things.	4-YR COLL	17.4 (16)	41.3 (38)	41.3 (38
ł	· · · · · · · · · · · · · · · · · · ·	UNIVERSITY	15.0 (12)	48.7 (39)	36.2 (29
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	OUTCOME MEASURE		NEED (%) (n)	WOULD LIKE	00N'T NEED (%)
E-7	Student and/or former student scores on a scale measuring their per-	COMPA COL			
	ceptions about thier self-image.	COMM COLL	25.4 (15)	42.4 (25)	32.2 (19)
		4-YR COLL	27.2 (25)	33.7 (31)	39.1 (36)
		UNIVERSITY	16.2 (13)	36.2 (29)	47.5 (38)
F-1	Number and percentage of students and/or former students surveyed who				
	hold membership in social, charitable, political, or civic organizations.	COMM COLL	8.2 (5)	45.9 (28)	45.9 (28)
		4-YK COLL	9.8 (9)	46.7 (43)	43.5 (40)
		UNIVERSITY	3.7 (3)	46.2 (37)	50.0 (40)
				•	
F-2	Number of awards and citations earned per student and/or former student for social contributions.	COMM COLL	4.9 (3)	47.5 (29)	47.5 (29)
		4-YR COLL	7.6 (7)	52.2 (48)	40.2 (37)
		UNIVERSITY	3.7 (3)	51.2 (41)	45.0 (36)
					<u> </u>
F·3	Student and/or former student scores on a scale measuring their perceptions about their ability to live and interact with other people.	COMM COLL	23.0 (14)	42.5 (26)	34.4 (21)
	about their ability to five and interact with other people.	4-YR COLL	18.5 (17)	41.3 (38)	40.2 (37)
		UNIVERSITY	11.2 (9)	41.2 (33)	47.5 (38)
		01111 ER3111	11.2 (3)	41.2 (33)	47.0 (30)
F-4	Number and percentage of students and/or former students surveyed who	00151 001		***	· · · · · · · · · · · · · · · · · · ·
	have been candidates for positions in local, state, and federal govern- ment.	COMM COLL	4.9 (3)	54.1 (33)	41.9 (25)
	- men e ·	4-YR COLL	13.0 (12)	51.1 (47)	35.9 (33)
į		UNIVERSITY	3.7 (3)	52.5 (42)	43.7 (35)
-5	Number and percentage of students and/or former students strveyed who hold office in social, charitable, political, or civic organizations.	COMM COLL	6.6 (4)	52.5 (32)	41.0 (25)
	india diffice in social, chair table, political, or civic organizations.	4-YR COLL	12.0 (11)	53.3 (49)	34.8 (32)
		UNIVERSITY	5.0 (4)	46.2 (37)	48.7 (39)
					<u> </u>
_		COMM COLL	5.0 (3)	55.0 (33)	40.0 (24)
-6	Number and percentage of students and/or former students surveyed who have participated in special social development programs (e.g., the	4-YR COLL	10.9 (10)	51.1 (47)	38.0 (35)
	Peace Corps, and VISTA).	UNIVERSITY	7.5 (6)	43.7 (35)	48.7 (39)
					*
-7	Number and percentage of students and/or former students surveyed who	COMM COLL	0.0 (0)	24.6 (15)	75.4 (46)
	have changed their political party affiliation within a certain period	4-YR COLL	1.1 (1)	16.3 (15)	P2.6 (76)
	of time.	UNIVERSITY	2.5 (2)	21.5 (17)	75.9 (60)
					1 1010 (00)
		COMM COLL	1.6 (1)	18.0 (11)	80.3 (49)
-8	Amount of monetary contributions per student and/or former student made	4-YR COLL	5.4 (5)	19.6 (18)	75.0 (69)
	to political, charitable, and social organizations or special interest groups within a certain time period relative to income category.	UNIVERSITY	3.7 (3)	35.0 (28)	61.2 (49)
				1 30.0 (20)	1 01.2 (43)
		COMM COLL	22/2	1 22 2 (02)	1 20 0 (00)
ا و۔	Average amount of time devoted to political, charitable, and social	4-YR COLL	3.3 (2) 6.5 (6)	37.7 (23) 30.4 (28)	59.0 (36)
	organizations or special interest groups within a certain time period	UNIVERSITY	3.7 (3)	30.4 (28)	63.0 (58) 63.7 (51)
	per student and/or former student.	UITAT CRUIT	3.7 (3/	32.0 (20)	03.7 (51)
		20181 661 I		· · · · · · · · · · · · · · · · · · ·	,
-10	Student and/or former student scores on a scale measuring their political	COMM COLL	4.9 (3)	41.0 (25)	54.1 (33)
	attitudes and beliefs.	4-YR COLL	6.6 (6)	24.2 (22)	69.2 (63)
		UNIVERSITY	3.7 (3)	33.7 (27)	62.5 (50)
	ii ii ii ii ii ii ii ii ii ii ii ii ii				
-11	Number and percentage of students and/or former students surveyed who	COMM COLL	1.6 (1)	39.3 (24)	59.0 (36)
	have used mechanisms of the political process (e.g., voted in elections.	4-YR COLL	4.3 (4)	28.3 (26)	67.4 (62)
	circulated petitions, attended hearings, written letters to their congressman).	UNIVERSITY	3.7 (3)	35.0 (28)	61.2 (49)
	[] 				
-12	Student and/or former student scores on a scale measuring their racial	COMM COLL	14.8 (9)	34.4 (21)	50.8 (31)
-	and ethnic attitudes and beliefs.	4-YR COLL	17.4 (16)	39.1 (36)	43.5 (40)
	113	UNIVERSITY	16.2 (13)	38.7 (31)	45.0 (36)

					
	OUTCOME MEASURE		NEED (%) (n)	WOULD LIKE (%) (11)	CON'T NEED (%) (n)
F-13	I assessed a contract assessed and an analysis weather the state of the last	COMM COLL	[14.0.4.0)	144 0 (07)	1 4 4 (45)
	and moral attitudes and beliefs and their concern for human welfare.	4-YR COLL	14.8 (9) 17.4 (16)	44.3 (27)	41.0 (25)
		UNIVERSITY		47.8 (44)	34.8 (32)
		ONLIERSIII	15.0 (12)	42.5 (34)	42.5 (34)
F-14	Student and/or former student scores on a scale measuring their current				
1	and desired social and economic level.	COMM COLL	18.0 (11)	49.2 (30)	32.8 (20)
		4-YR COLL	15.4 (14)	52.7 (48)	31.9 (29)
		UNIVERSITY	6.2 (5)	50.0 (40)	43.7 (35)
- 15					
F-15	in and acquaintance with the arts, great books, and other cultural arti-	COMM COLL	14.8 (9)	49.2 (30)	36.1 (22)
	facts and activities.	4-YR COLL	16.5 (15)	50.5 (46)	33.0 (30)
		UNIVERSITY	16.2 (13)	45.0 (36)	38.7 (31)
F-16		COMM COLL	1.6 (1)	36.1 (22)	62.3 (38)
	well-known literary works or pieces of art as a percentage of all students and/or former students surveyed.	4-YR COLL	8.8 (8)	33.0 (30)	58.2 (53)
		UNIVERSITY	6.2 (5)	35.0 (28)	58.7 (47)
G-1	Number of nonmatriculating participants enrolled in instructional programs as a percentage of the total number of persons in those programs.	COMM COLL	60.7 (37)	31.1 (19)	8.2 (5)
	as a percentage of the total number of persons in those programs.	4-YR COLL	39.6 (36)	39.6 (36)	20.9 (19)
		UNIVERSITY	29.5 (23)	50.0 (39)	1
			29.5 (25)	30.0 (39)	20.5 (16)
G-2	Nonmatriculating participant scores on a scale measuring their degree				
	of satisfaction with their educational experience.	COMM COLL	42.6 (26)	41.0 (25)	16.4 (10)
		4-YR COLL	26.4 (24)	46.2 (42)	27.5 (25)
		UNIVERSITY	16.7 (13)	50.0 (39)	33.3 (26)
G-3	Number and percentage of nonmatriculating participants surveyed who received a promotion and/or salary increase as a result of job-related	COMM COLL	34.4 (21)	47.5 (29)	18.0 (11)
	educational experiences.	4-YR COLL	14.3 (13)	54.9 (50)	30.8 (28)
		UNIVERSITY	15.4 (12)	47.4 (37)	37.2 (29)
6-4	Scores of nonmatriculating participants, who are working or have returned	COMM COLL	32.8 (20)	47.5 (29)	19.7 (12)
	to their job, on a scale measuring their satisfaction with their job performance as a result of job-related educational experiences.	4-YR COLL	16.7 (15)	44.4 (40)	38.9 (35)
	formance as a result of job-related educational experiences.	UNIVERSITY	10.3 (8)	48.7 (38)	41.0 (32)
G-5	Average amount of time per £aculty/staff member spent in selected	COMM COLL	37.7 (23)	42.6 (26)	19.7 (12)
"	educational activities for their personal educational growth and	4-YR COLL	29.7 (27)	51.6 (47)	18.7 (17)
	development while at the institution.	UNIVERSITY	34.6 (27)	37.2 (29)	28.2 (22)
G-6	Faculty/staff scores on a scale measuring their perceptions of their	COMM COLL	32.8 (20)	47.5 (29)	19.7 (12)
	educational growth and development as a result of their experiences while	4-YR COLL	22.0 (20)	52.7 (48)	25.3 (23)
	at the institution.	UNIVERSITY	29.5 (23)	41.0 (32)	29.5 (23)
					_
		COMM COLL	27.9 (17)	54.1 (33)	19 0 (11)
H-1	Average amount of time faculty/staff and students spent in selected community service activities (e.g., giving professional service and advice	4-YR COLL	24.2 (22)	57.1 (52)	18.0 (11) 18.7 (17)
	outside the institution) within a certain time period.	UNIVERSITY	26.2 (21)	50.0 (40)	23.7 (19)
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		6000			
H-2	Estimated replacement value of specific community services received	COMM COLL	24.6 (15)	47.5 (29)	27.9 (17)
	by individuals or organizations that receive the services.	4-YR COLL	13.2 (12)	44.0 (40)	42.9 (39)
		UNIVERSITY	15.2 (12)	51.9 (41)	32.9 (26)
					Ì
H-3	Ratio of total income for community services to total budget for community	COMM COLL	43.3 (26)	45.0 (27)	11.7 (7)
	services.	4-YR COLL	23.1 (21)	39.6 (36)	37.4 (34)
	114 ₄ on	UNIVERSITY	28.2 (22)	37.2 (29)	34.6 (27)
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	OUTCOME MEASURE BEST COPY AVAILABLE		NEED (%) (n)	WOULD LIKE	DON'T NEED
H-4	Number of faculty/staff on leave from the institution to local, state,	COMM COLL	52.5 (32)	29.5 (18)	1000
	and national governments in a policy, management or technical role.	4-YR COLL	48.9 (45)	25.0 (23)	18.) (11) 26.1 (24)
		UNIVERSITY	45.0 (36)	30.0 (24)	25.0 (20)
				1 0010 (247	25.0 (20)
H-5	Number of individuals not associated with the institution who were served	COMM COLL	44.3 (27)	42.6 (26)	13.1 (8)
	by a particular support program (e.g., the computer center, the library, the health services staff, etc.) as a percentage of the total number of	4-YR COLL	33.7 (31)	46.7 (43)	19.6 (18)
	individuals served within a certain time period.	UNIVERSITY	37.5 (30)	40.0 (32)	22.5 (18)
H-6	Estimated monetary value of specific community services (e.g., health services, computer services, etc.) offered relative to other comparable	COMM COLL	37.7 (23) 28.6 (26)	49.2 (30) 38.5 (35)	13.1 (8)
	services offered elsewhere.	4-YR COLL	30.4 (24)	43.0 (34)	33.0 (30) 26.6 (21)
		UNIVERSITY	0014 (24)	40.0 (04)	2010 (21)
H-7	Number and percentage of persons attending selected extramural, cultural,	COMM COLL	29.5 (18)	45.9 (28)	24.5 (15)
	and recreational events who are not students or members of the institution's faculty/staff.	4-YR COLL	22.8 (21)	50.0 (46)	24.6 (15) 27.2 (25)
	racurcy/scarr.	UNIVERSITY	21.2 (17)	46.2 (37)	32.5 (26)
			2112 (117)	1 40.2 (37)	32.3 (20)
I-1	Number and percentage of students who are employed in businesses, agencies and organiztions in the community.	COMM COLL	40.3 (25)	54.8 (34)	4.8 (3)
	and organizations in and community.	4-YR COLL	34.8 (32)	51.1 (47)	14.1 (13)
		UNIVERSITY	32.5 (26)	50.0 (40)	17.5 (14)
1-2					
1-2	Number and percentage of graduatus of a particular graduating class who are employed in-state versus out-of-state.	COMM COLL	25.8 (16)	50.0 (31)	24.2 (15)
		4-YR COLL UNIVERSITY	33.7 (31)	43.5 (40)	22.8 (21)
		UNIVERSITY	21.2 (17)	48.7 (39)	30.0 (24)
I-3	Total dollar amount of goods and services purchased by the institution	COMM COLL	29.0 (18)	40.3 (25)	30.6 (19)
	from a particular sector of the community within a certain time period.	4-YR COLL	27.2 (25)	44.6 (41)	28.3 (26)
		UNIVERSITY	25.0 (20)	48.7 (39)	26.2 (21)
I-4	Faculty/staff and student expenditures in the community within a certain time period.	COMM COLL	25.8 (16)	41.9 (26)	32.3 (20)
		4-YR COLL	28.3 (26)	48.9 (45)	22.8 (21)
		UNIVERSITY	21.2 (17)	32.5 (42)	26.2 (21)
1-5	Estimated dollar amount of the institution's payroll as a percentage of	COMM COLL	32.3 (20)	45.2 (28)	22.6 (14)
	the estimated total community payroll.	4-YR COLL	34.8 (32)	35.9 (33)	29.3 (27)
		UNIVERSITY	30.0 (24)	43.7 (35)	26.2 (21)
				1 - Hart to	
1-6	Amount of land removed from the community tax base as a result of the existence of the institution.	COHM COLL 4-YR COLL	33.9 (21) 37.0 (34)	35.5 (22) 37.0 (34)	30.6 (19)
		UNIVERSITY	31.2 (25)	38.7 (31)	26.1 (24) 30.0 (24)
					· · · · · · · · · · · · · · · · · · ·
1-7	Employers scores on a scale measuring their degree of satisfaction with	COMM COLL	55.7 (34)	32.8 (20)	11.5 (7)
	the performance of students and/or former students on the Job.	4-YR COLL	37.4 (34)	44.0 (40)	18.7 (17)
		UNIVERSITY	20.0 (16)	43.7 (35)	36.2 (29)
		COM CO:	16 1 /20	1 00 0 1113	
1-8	Amount of private housing owned or rented by students and/or faculty/staff	COMM COLL 4-YR COLL	16.1 (10) 28.6 (26)	38.7 (24)	45.2 (28)
	as a percentage of the total housing available in the community.	UNIVERSITY	28.6 (26)	42.9 (39) 41.2 (33)	28.6 (26) 35.0 (28)

1-9	Value of community business properties attributable to institution-	COMM COLL	17.7 (11)	30.6 (19)	51.6 (32)
	related expenditures.	4-YR COLL	14.6 (13)	46.1 (41)	39.3 (35)
EB	115	UNIVERSITY	16.5 (13)	40.5 (32)	43.0 (34)
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	OUTCOME MEASURE		NEED (%) (n)	WOULD LIKE (%) (n)	DON'T NEE
I-10	Amount and percentage of the local credit base due to institution-related deposits in community banks.	COMM COLL	19.4 (12)	40.3 (25)	40.3 (25)
	deposits in community banks.	4-YR COLL	14.4 (13)	45.6 (41)	40.0 (36,
		UNIVERSITY	17.5 (14)	40.0 (32)	42.5 (34)
			<u> </u>	1	1 1212
1-11	Extent to which the presence of the institution influences businesses locating in the community.	COMM COLL	33.9 (21)	53.2 (33)	12.9 (8)
		4-YR COLL	29.3 (27)	44.6 (41)	26.1 (24)
		UNIVERSITY	27.5 (22)	52.5 (42)	20.0 (16)
I-12	Amount and percentage of federal revenue sharing s`location attributable	COMM COLL	37.1 (23)	43.5 (27)	19.4 (12)
	to the institution's presence in the community.	4-YR COLL	21.7 (20)	44.6 (41)	33.7 (31)
		UNIVERSITY	22.5 (18)	42.5 (34)	35.0 (28)
				1 1010	1 333 (44)
1-13	Institution-related contributions as a percentage of total community fund raising (e.g., United Fund program).	COMM COLL	32.3 (20)	43.5 (27)	24.2 (15)
		4-YR COLL	20.7 (19)	41.3 (38)	38.0 (35)
		UNIVERSITY	15.0 (12)	47.5 (38)	37.5 (30)
I-14	Geographic distribution of alumni.	COURT COLL	(00.6.(14)	i so # /07\	1 12 2 750
1-14	deographic distribution of alwani.	COMM COLL	22.6 (14)	59.7 (37)	17.7 (11)
ŀ		4-YR COLL	35.9 (33)	47.8 (44)	16.3 (15)
		UNIVERSITY	31.2 (25)	50.0 (40)	18.7 (15)
I-15	Community attitudes toward the institution (e.g., attitudes toward the institution's contribution to community social/cultural activities and	COMM COLL	64.5 (40)	32.3 (20)	3.2 (2
	the institution's impact on the amount of crime in the community).	4-YR COLL	57.6 (53)	30.4 (28)	12.0 (11)
		UNIVERSITY	34.2 (27)	50.6 (40)	15.2 (12)
			0112 (4.7		1 (16.
I-16	Number of persons from the community employed by the institution.	COMM COLL	58.1 (36)	24.2 (15)	17.7 (31)
		4-YR COLL	45.7 (42)	29.3 (27)	25.0 (23)
		UNIVERSITY	43.7 (35)	33.7 (27)	22.5 (18)
J-1	Distribution of publications by type of publication (e.g., books, mono-	COMM COLL	11.3 (7)	38.7 (24)	50.0 (31)
ı	graphs, etc.) per student, former student, and/or faculty member within a certain time period.	4-YR COLL	9.9 (9)	50.5 (46)	39.6 (36)
ľ	·	UNIVERSITY	23.7 (19)	43.7 (35)	32.5 (26
J-2	Number of times a given publication is cited in bibliographies of other authors within a certain time period.	COMM COLL	3.2 (2)	29.0 (18)	67.7 (42)
	·	4-YR COLL	3.3 (3)	20.7 (19)	76.1 (70)
		UNIVERSITY	12.5 (10)	33.7 (27)	53.7 (43
J-3	Number_of articles published per faculty/staff member in prestigious	COMM COLL	0.7/6	7 2 4 (25)	
	journals within a certain time period.	4-YR COLL	9.7 (6) 25.0 (23)	56.5 (35)	33.9 (21)
		UNIVERSITY	30.0 (24)	41.3 (38) 40.0 (32)	33.7 (31) 30.0 (24)
			30.0 (64)	1 40.0 (36)	30.0 (24)
J-4	Number of papers presented at professional meeting per student, former student, and/or faculty/staff member within a certain time period.	COMM COLL	9.7 (6)	58.1 (36)	32.3 (20)
]		4-YR COLL	17.4 (16)	51.1 (47)	31.5 (29)
		UNIVERSITY	27.5 (22)	45.0 (36)	27.5 (22)
J-5	Number of suands and ottobless was to be a first to be a f	COURT COL.	[]4 = 7 05	50 1 /001	n= 4 /*
J-2	Number of awards and citations received by students, former students, and/or faculty members for their research and art products within a	COMM COLL	14.5 (9)	58.1 (36)	27.4 (17)
	certain time period.	4-YR COLL UNIVERSITY	19.6 (18) 23.7 (19)	58.7 (54) 51.2 (41)	21.7 (20) 25.0 (20)
		wire tellidell	417 (137	1 -11.6 (41)	=3.0 (20)
J-6	Average amount of faculty time spent in selected research and art producing activities.	COMM COLL	14.8 (9)	49.2 (30)	36.1 (22)
	,	4-YR COLL	30.0 (27)	42.2 (38)	27.8 (25)
	,116	UNIVERSITY	38.7 (31)	37.5 (30)	23.7 (19)
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<u> </u>	OUTCOME MEASURE		NEED	WOULD LIKE	DON'T NEED
J-7			(%) (n)	(%) (n)	(%) (n)
	Number of proposals funded for certain purposes (e.g., research versus training) by level of funding as a percentage of all proposals submitted.	COMM COLL	41.9 (26)	33.9 (21)	24.2'(15)
	in the second of	4-YR COLL	40.2 (37)	35.9 (33)	23.9 (22)
		UNIVERSITY	46.2 (37)	35.0 (28)	18.7 (15)
J-8	Total dollar amount of gifts and/or grants received for certain purposes				
	(e.g., research versus training) as a percentage of total budget within	COMM COLL	45.2 (28)	33.9 (21)	21.0 (1.3)
	The same per idea	4-YR COLL	56.5 (52)	21.7 (20)	21.7 (20)
		UNIVERSITY	57.5 (46)	27.5 (22)	15.0 (12)
J-9	Number and percentage of faculty/staff surveyed who have creuted films,				
0-3	taped lectures, etc. within a certain time period.	COMM COLL	25.8 (16)	50.0 (31)	24.2 (15)
		4-YR COLL	26.1 (24)	34.8 (32)	39.1 (36)
		LAIVERSITY	18.7 (15)	55.0 (44)	26.2 (21)
J-10	Number of patents and/or copyrights received per student, former student, and/or faculty member within a certain time period.	COMM COLL	11.3 (7)	43.5 (27)	45.2 (28)
	and/or faculty member within a certain time period.	4-YR COLL	13.0 (12)	40.2 (37)	46.7 (43)
		UNIVERSITY	18.7 (15)	45.0 (36)	36.2 (29)
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J-11	Number of books or monographs written by faculty/staff that are published commercially within a certain time period.	COMM COLL	19.4 (12)	50.0 (31)	30.6 (19)
	partition commercially within a certain time period.	4-YR COLL	27.2 (25)	38.0 (35)	34.8 (32)
		UNIVERSITY	30.0 (24)	50.0 (40)	20.0 (16)
	hadron de la companya				
J-12	Judgements of peer groups and/or potential beneficiary groups regarding the worth/impact of research project results.	COMM COLL	19.4 (12)	43.5 (27)	37.1 (23)
		4-YR COLL	21.7 (20)	37.0 (34)	41.3 (38)
		UNIVERSITY	30.0 (24)	45.0 (36)	25.0 (20)
			•		
J-13	Number and percentage of graduates engaged in research activities.	COMM COLL	6.5 (4)	41.9 (26)	51.6 (32)
		4-YR COLL	16.3 (15)	55.4 (51)	28.3 (26)
		UNIVERSITY	15.0 (12)	51.2 (41)	33.7 (27)
J-14		COMM COLL	14.5 (9)	59.7 (37)	25.8 (16)
	participate in professional meetings and conferences.	4-YR COLL	26.1 (24)	43.5 (40)	30.4 (28)
		UNIVERSITY	20.0 (16)	46.2 (37)	33.7 (27)
J-15	Number and percentage of graduates who have produced or exhibited certain art forms (e.g., paintings, sculptures, plays, etc.).	COMM COLL	11.3 (7)	53.2 (33)	35.5 (22)
	· w · · · w · · · · · · · · · · · · · ·	4-YR COLL	17.4 (16)	54.3 (50)	28.3 (26)
		UNIVERSITY	15.0 (12)	48.7 (39)	36.2 (29)
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TABLE C.4

The Percentage and Number of Responses to the "Needs" Question, by Administrators in Public and Private Four-Year Colleges and Universities*



^{*}It should be noted in reviewing this table that if a respondent did not record a choice for any measure in the questionnaire, the no response was not considered in calculating the distribution of responses across the question categories in the table.

	OUTCOME MEASURE REST COPY AVAILABLE	
A-1	Student scores on tests that indicate development in their <u>breadth</u> of knowledge about facts and principles across several broad fields of study (e.g., the humanities, the physical sciences, etc.).	4-YR PUB 30.2 (13) 41.9 (18) 27.9 (12) 1-YR PRIV 30.6 (15) 51.0 (25) 18.4 (9) UNIV PUB 22.7 (10) 38.6 (17) 38.6 (17) UNIV PRIV 38.9 (14) 33.3 (12) 27.8 (10)
A-2	Student scores on tests that indicate development in their depth of know- ledge concerning facts and principles in the particular fields in which a student elects to study.	4-YR PUB 34.9 (15) 34.9 (15) 30.2 (13) 4-YR PRIV 30.6 (15) 46.9 (23) 22.4 (11) UNIV PUB 22.7 (10) 38.6 (17) 38.6 (17) UNIV PRIV 36.1 (13) 38.9 (14) 25.0 (9)
A-3	Number of students passing certification or licensing exams (e.g., bar exam, CPA, LPN) on the first attempt as a percentage of all students taking the exam.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV UNIV PRIV 23.8 (10) 59.5 (25) 16.7 (7) 54.2 (26) 35.4 (17) 25.0 (11) 43.2 (19) 31.8 (14) 25.0 (9) 58.3 (21) 16.7 (6)
A-4	Student scores on tests that indicate their ability to apply general or specialized knowledge to a problem and to implement a solution.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV UNIV PRIV 27.9 (12) 22.4 (11) 22.7 (10) 43.2 (19) 30.2 (13) 22.4 (11) 22.7 (10) 43.2 (19) 34.1 (15) 27.8 (10) 41.7 (15) 30.6 (11)
A-5	Student scores on tests that indicate thier ability to <u>analyze</u> problems (e.g., the recognition of biased points in an article or speech).	4-YR PUB 23.8 (10) 40.5 (17) 35.7 (15) 4-YR PRIV 20.4 (10) 59.2 (29) 20.4 (10) UNIV PUB 22.7 (10) 40.9 (18) 36.4 (16) 28.6 (10) 42.9 (15) 28.6 (10)
A-6	Number of patents awarded and copyrights obtained by students and/or former students within a certain time period.	4-YR PUB
A-7	Student scores on tests that indicate their ability to read, write, speak, and/or listen.	4-YR PUB 53.5 (23) 18.6 (8) 27.9 (12) 4-YR PRIV 55.1 (27) 30.6 (15) 14.3 (7) UNIV PUB 45.5 (20) 27.3 (12) 27.3 (12) UNIV PRIV 36.1 (13) 44.4 (16) 19.4 (7)
A-8	Number and percentage of students surveyed who have participated in activities that enhance their communication skills (e.g., debate, encounter groups, etc.).	4-YR PUB 27.9 (12) 34.9 (15) 37.2 (16) 4-YR PRIV 16.7 (8) 39.6 (19) 43.7 (21) UNIV PUB 2.3 (1) 47.7 (21) 50.0 (22) UNIV PRIV 11.1 (4) 52.8 (19) 36.1 (13)
A-9	Student acores on tests that indicate their ability to perform tasks requiring physical dexterity and skill.	4-YR PUB 4.7 (2) 37.2 (16) 58.1 (25) 4-YR PRIV 4.1 (2) 26.5 (13) 69.4 (34) UNIV PUB 2.3 (1) 15.9 (7) 81.8 (36) UNIV PRIV 2.8 (1) 22.2 (8) 75.0 (27)
A-10	Number and percentage of students surveyed who have participated in activities that enhance thier athletic skills (e.g., intramural and varsity sports).	4-YR PUB 14.3 (6) 38.1 (16) 47.5 (20) 4-YR PRIV 12.2 (6) 42.9 (21) 44.9 (22) UNIV PUB 4.5 (2) 34.1 (15) 61.4 (27) 2.8 (1) 63.9 (23) 33.3 (12)
8-1	Number and percentage of students surveyed identifying a certain degree, diploma, or certificate as the highest degree planned.	4-YR PUB 58.1 (25) 27.9 (12) 14.0 (6) 4-YR PRIV 29.2 (14) 60.4 (29) 10.4 (5) UNIV PUB 40.9 (18) 45.5 (20) 13.6 (6) UNIV PRIV 38.9 (14) 36.1 (13) 25.0 (9)
8-2	Number and percentage of students surveyed who have changed majors (lower divison, upper division, and/or graduate) within a certain time period.	4-YR PUB 34.9 (15) 48.8 (21) 16.3 (7) 4-YR PRIV 31.2 (15) 43.7 (21) 25.0 (12) UNIV PUB 45.5 (20) 36.4 (16) 18.2 (8) UNIV PRIV 47.2 (17) 33.3 (12) 19.4 (7)

	OUTCOME MEASURE		NEED (%) (n)	WOULD LIKE	DON'T NEED
B- 3	Number and percentage of students surveyed who are taking noncredit, inde- pendent study, or special courses.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	53.5 (23) 47.9 (23) 38.6 (17) 40.0 (14)	30.2 (13) 31.2 (15) 38.6 (17) 34.3 (12)	16.3 (7) 20.8 (10) 22.7 (10) 25.7 (9)
8-4	Number of awards and citations received per student and/or former student for their academic performance.	4-YR PUB 4-YR PRIV UNIV PUB UNIY PRIV	14.0 (6) 31.2 (15) 6.8 (3) 8.6 (3)	51.2 (22) 45.8 (22) 56.8 (25) 57.1 (20)	34.9 (15) 22.9 (11) 36.4 (16) 34.3 (12)
8-5	Number of students receiving a degree, diploma, and certificate within a certain time period.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	76.7 (33) 63.0 (29) 77.3 (34) 63.9 (23)	18.6 (8) 23.9 (11) 13.6 (6) 33.3 (12)	4.7 (2) 13.0 (6) 9.1 (4) 2.8 (1)
8-6	Average amount of time it takes a student to earn a degree, diploma, or certificate.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	55.8 (24) 39.6 (19) 55.8 (24) 50.0 (18)	3/.2 (16) 45.8 (22) 32.6 (14) 38.9 (14)	7.0 (3) 14.6 (7) 11.6 (5) 11.1 (4)
8-7	Number of students graduating from the institution after a certain period of time as a percentage of their entering class.	4-YR PUB 4-YR PRIV USIV PUB UNIV PRIV	62.8 (27) 64.6 (31) 59.1 (26) 58.3 (21)	27.9 (12) 27.1 (13) 31.8 (14) 36.1 (13)	9.3 (4) 8.3 (4) 9.1 (4) 5.6 (2)
8-8	Number and percentage of graduates for the year who transferred from another school.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	50.5 (25) 52.1 (25) 56.8 (25) 69.4 (25)	32.6 (14) 31.2 (15) 36.4 (16) 25.0 (9)	7.0 (3) 16.7 (8) 6.8 (3) 5.6 (2)
B-9	Number and percentage of students leaving the institution prior to receiving a degree, diploma or certificate during a particular academic term or year.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	72.1 (31) 70.8 (34) 65.9 (29) 76.0 (27)	20.9 (9) 22.9 (11) 27.3 (12) 25.0 (9)	7.0 (3) 6.2 (3) 6.8 (3) 9.0 (0)
B-10	Number of graduates accepted for study in another educational program that will result in a degree, diploma or certificate as a percentage of those applying.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	37.2 (16) 34.0 (16) 29.5 (13) 32.4 (11)	51.2 (22) 44.7 (21) 50.0 (22) 50.0 (17)	11.6 (5) 21.3 (10) 20.5 (9) 17.6 (6)
B-11	Number of graduates working toward or receiving another educational degree, diploma, or certificate after a certain time period following graduation as a percentage of their graduating class.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	26.2 (11) 26.5 (13) 15.9 (7) 16.7 (6)	57.1 (24) 59.2 (29) 59.1 (26) 63.9 (23)	16.7 (7) 14.3 (7) 25.0 (11) 19.4 (7)
B-12	Student and/or former student scores on a scale measuring their perceptions of their educational achievement.	4-YR PUB 4-YC PRIV UNIV PUB UNIV PRIV	28.6 (12) 22.4 (11) 29.5 (13) 25.0 (9)	50.0 (21) 57.1 (28) 40.9 (18) 44.4 (16)	21.4 (9) 20.4 (10) 29.5 (13) 30.6 (11)
B-13	Student scores on a scale measuring their perceptions about the amount of learning that took place in certain activities sponsored by the institution outside of formal instruction.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	23.8 (10) 27.1 (13) 20.5 (9) 36.1 (13)	47.6 (20) 50.0 (24) 52.3 (23) 41.7 (15)	28.6 (12) 22.9 (11) 27.3 (12) 22.2 (8)
8-14	Student scores on a scale measuring their interest in continued self-initiated study and inquiry.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	19.0 (8) 16.7 (8) 25.0 (11) 38.9 (14)	45.2 (19) 60.4 (29) 50.0 (22) 30.6 (11)	35.7 (15) 22.9 (11) 25.0 (11) 30.6 (11)
C-1	Number and percentage of former students surveyed who indicate that they would send their children to the same school.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	25.6 (11) 32.7 (16) 25.0 (11) 25.0 (9)	55.8 (24) 57.1 (28) 56.8 (25) 63.9 (23)	18.6 (8) 10.2 (5) 18.2 (8) 11.1 (4)

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	OUTCOME MEASURE		NEED (%) (n)	WOULD LIKE	DON'T NEED
C-2	Average amount of alumni gifts within a certain time period after graduation.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	23.3 (10) 36.7 (18) 20.5 (9) 33.3 (12)	58.1 (25) 40.8 (20) 54.5 (24) 47.2 (17)	18.6 (8) 22.4 (11) 25.0 (11) 19.4 (7)
C-3	Student and/or former student scores on a scale measuring their degree of satisfaction with their overall educational experience.	4-YR PUR 4-YR PRIV UNIV PUS UNIV PH V	41.9 (18) 51.0 (25) 36.4 (16) 36.1 (13)	46.5 (20) 44.9 (22) 47.7 (21) 50.0 (18)	11.6 (5) 4.1 (2) 15.9 (7) 13.9 (5)
C-4	Student scores on a scale measuring their degree of satisfaction with their knowledge and skills development (e.g., changes in their breadth and depth of knowledge, changes in their communication skills).	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	32.6 (14) 40.8 (20) 36.4 (16) 27.8 (10)	46.5 (20) 51.7 (25) 34.1 (15) 50.0 (18)	20.9 (9) 8.2 (4) 29.5 (13) 22.2 (8)
C-5	Student scores on a scale measuring their degree of satisfaction with their personal development (e.g., changes in their ability to cope with new situations, changes in their self-concept).	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	25.6 (11) 38.8 (19) 25.0 (11) 30.6 (11)	58.1 (25) 46.9 (23) 45.5 (20) 36.1 (13)	16.3 (7) 14.3 (7) 29.5 (13) 33.3 (12)
C-6	Student scores on a scale measuring their degree of satisfaction with their social and cultural development (e.g., changes in their ability to get along with others, changes in their appreciation of cultural activities and artifacts).	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	27.9 (12) 34.7 (17) 18.2 (8) 33.3 (12)	53.5 (23) 51.0 (25) 52.3 (23) 30.6 (11)	18.6 (8) 14.3 (7) 29.5 (13) 36.1 (13)
C-7	Student scores on a scale measuring their degree of satisfaction with their progress in achieving their educational career goals.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	44.2 (19) 40.8 (20) 31.8 (14) 38.9 (14)	44.2 (19) 53.1 (26) 43.2 (19) 41.7 (15)	11.6 (5) 6.1 (3) 25.9 (11) 19.4 (7)
C-8	Student scores on a scale measuring their degree of satisfaction with their progress in achieving their occupational career goals.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	48.8 (21) 36.7 (18) 36.4 (16) 33.3 (12)	39.5 (17) 55.1 (27) 45.5 (20) 44.4 (16)	11.6 (5) 8.2 (4) 18.2 (8) 22.2 (8)
D-1	Number and percentage of former students (graduates and nongraduates) surveyed who were employed within a certain time period after leaving the institution.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	44.2 (19) 32.7 (16) 32.6 (14) 25.0 (9)	46.5 (20) 53.1 (26) 51.2 (22) 55.6 (20)	9.3 (4) 14.3 (7) 16.3 (7) 19.4 (7)
D - 2	Number and percentage of former students (graduates and nongraduates) surveyed who received the job of their first choice.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	25.6 (11) 30.6 (15) 16.3 (7) 16.7 (6)	55.8 (24) 46.9 (23) 65.1 (28) 47.2 (17)	18.6 (8) 22.4 (11) 18.6 (8) 36.1 (13)
D-3	Average first salary of former students.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	23.3 (10) 14.3 (7) 25.6 (11) 8.3 (3)	65.1 (28) 67.3 (33) 51.2 (22) 61.1 (22)	11.6 (5) 18.4 (9) 23.3 (10) 30.6 (11)
D-4	Distribution of former students (graduates and nongraduates) across income categories within a certain time period after leaving the institution.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	16.3 (7) 10.2 (5) 20.9 (9) 11.1 (4)	67.4 (29) 71.4 (35) 58.1 (25) 55.6 (20)	16.3 (7) 18.4 (9) 20.9 (9) 33.3 (12)
D-5	Former students (graduates and nongraduates) scores on a scale measuring their degree of satisfaction with their job performance.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	20.9 (9) 6.2 (3) 16.3 (7) 13.9 (5)	51.2 (22) 72.9 (35) 55.8 (24) 33.3 (12)	27.9 (12) 20.8 (10) 27.9 (12) 52.8 (19)
D-6	Number of professional occupation awards and citations received per former student surveyed.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	4.7 (2) 8.2 (4) 9.3 (4) 5.6 (2)	55.8 (24) 61.2 (30) 53.5 (23) 50.0 (18)	39.5 (17) 30.6 (15) 37.2 (16) 44.4 (16)

	OUTCOME MEASURE		NEED	WOULD LIKE	DON'T NEED
D-7	Number and percentage of former students surveyed the are in management positions within a certain time pariod after leaving the institution.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	18.6 (8) 22.4 (11) 9.3 (4) 11.1 (4)	67.4 (29) 55.1 (27) 60.5 (26) 52.8 (19)	14.0 (6) 22.4 (11) 30.2 (13) 36.1 (13)
0-8	Number of voluntary/involuntary changes in <u>amployment</u> within a given time period per former student surveyed.	4-YR PUB 4-YR PRIV UNIV PUS UNIV PRIV	11.6 (5) 4.1 (2) 11.6 (5) 8.3 (3)	48.8 (21) 59.2 (29) 41.9 (18) 27.8 (10)	39.5 (17) 36.7 (18) 46.5 (20) 63.9 (23)
0-9	Number of voluntary/involuntary changes in <u>career field</u> within a given time period per former student surveyed.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	16.3 (7) 10.2 (5) 11.6 (5) 5.6 (2)	44.2 (19) 57.1 (28) 41.9 (18) 44.4 (16)	39.5 (17) 32.7 (16) 46.5 (20) 50.0 (18)
0-10	Average first salary expectations of students.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	14.0 (6) 10.2 (5) 18.6 (8) 8.3 (3)	52.8 (27) 59.2 (29) 37.2 (16) 52.8 (19)	23.3 (10) 30.6 (15) 44.2 (19) 38.9 (14)
0-11	Number and percentage of students surveyed who are aspiring to a particular type of occupational career.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	60.5 (26) 44.9 (22) 43.2 (19) 47.2 (17)	27.9 (12) 51.0 (25) 38.6 (17) 33.3 (12)	11.6 (5) 4.1 (2) 18.2 (8) 19.4 (7)
0-12	Number and percentage of students and/or former students surveyed who are seeking certain levels of employment.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	39.5 (17) 29.8 (14) 27.3 (12) 11.1 (4)	44.2 (19) 44.7 (21) 31.8 (14) 50.0 (18)	16.3 (7) 25.5 (12) 40.9 (18) 38.9 (14)
D-13	Number and percentage of former students (graduates and nongraduates) surveyed accepting employment in their major field of study.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	44.2 (19) 33.3 (16) 36.4 (16) 19.4 (7)	46.5 (20) 54.2 (26) 36.4 (16) 52.8 (19)	9.3 (4) 12.5 (6) 27.3 (12) 27.8 (10)
€-1	Number of students and/or former students reporting certain mental and physical illnesses as a percentage of all the students and/or former students surveyed.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	16.3 (7) 12.2 (6) 13.6 (6) 16.7 (6)	30.2 (13) 38.8 (19) 36.4 (16) 16.7 (6)	53.5 (23) 49.0 (24) 50.0 (22) 66.7 (24)
E-2	Number and percentage of students surveyed who have participated in special mental health counseling programs within a certain period of time.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	18.6 (8) 18.4 (9) 22.7 (10) 8.3 (3)	30.2 (13) 28.6 (14) 15.9 (7) 30.6 (11)	51.2 (22) 53.1 (26) 61.4 (27) 61.1 (22)
E-3	Number and percentage of students and/or former students surveyed who belong to or hold office in religious organizations.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	0.0 (0) 8.2. (4) 9.1 (4) 8.3 (3)	34.9 (15) 38.8 (19) 20.5 (9) 33.3 (12)	65.1 (28) 53.1 (26) 70.5 (31) 58.3 (21)
E-4	Student and/or former student scores on a scale measuring their religious and spiritual attitudes and beliefs.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	4.7 (2) 14.3 (7) 4.5 (2) 19.4 (7)	18.6 (8) 40.8 (20) 20.5 (9) 27.8 (10)	76.7 (33) 44.9 (22) 75.0 (33) 52.8 (19)
E-5	Number and percentage of students and/or former students surveyed who impularly attend religious services.	4-YR PUB 4-YR PRIV UKIV PUB UNIV PRIV	2.3 (1) 12.2 (6) 0.0 (0) 11.1 (4)	14.0 (6) 28.6 (14) 29.5 (13) 36.1 (13)	83.7 (36) 59.2 (29) 70.5 (31) 52.8 (19)
ε-6	Student and/or former student scores on a scale measuring their attitudes and beliefs toward new or different ideas and things.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	18.6 (8) 16.3 (8) 13.6 (6) 16.7 (6)	39.5 (17) 42.9 (21) 52.3 (23) 44.4 (16)	41.9 (18) 40.8 (20) 34.1 (15) 38.9 (14)

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	OUTCOME MEASURE	NCFD WOULD LIKE DON'T NEED (%) (n) (%) (n) (%) (n)
E-7	Student and/or former student scores on a scale measuring their per- ceptions about thier self-image.	(%) (n) (%) (n) (%) (n) 4-YR PUB
F-1	Number and percentage of students and/or former students surveyed who hold membership in social, charitable, political, or civic organizations.	4-YR PUB 7.0 (3) 44.2 (19) 48.8 (21) 4-YR PRIV 12.2 (6) 49.0 (24) 38.8 (19) UNIV PUB 2.3 (1) 47.7 (21) 50.0 (22) UNIV PRIV 5.6 (2) 44.4 (16) 50.0 (18)
F-2	Number of awards and citations earned per student and/or former student for social contributions.	4-YR PUB 7.0 (3) 46.5 (20) 46.5 (20) 4-YR PRIV 8.2 (4) 57.1 (28) 34.7 (17) UNIV PUB 2.3 (1) 52.3 (23) 45.5 (20) UNIV PRIV 5.6 (2) 50.0 (18) 44.4 (16)
F-3	Student and/or former student scores on a scale measuring their perceptions about their ability to live and interact with other people.	4-YR PUB 4-YR PRIV 16.3 (8) 49.0 (24) 34.7 (17) UNIV PUB UNIV PRIV 11.1 (4) 30.6 (11) 58.3 (21)
F-4	Number and percentage of students and/or former students surveyed who have been candidates for positions in local, state, and federal government.	4-YR PUB 7.0 (3) 53.5 (23) 39.5 (17) 4-YR PRIV 18.4 (9) 49.0 (24) 32.7 (16) UNIV PUB 4.5 (2) 54.5 (24) 40.9 (18) UNIV PRIV 2.8 (1) 50.0 (18) 47.2 (17)
F-5	Number and percentage of students and/or former students surveyed who hold office in social, charitable, political, or civic organizations.	4-YR PUB 9.3 (4) 51.2 (22) 39.5 (17) 4-YR PRIV 14.3 (7) 55.1 (27) 30.6 (15) UNIV PUB 6.8 (3) 43.2 (19) 50.0 (22) UNIV PRIV 2.8 (1) 50.0 (18) 47.2 (17)
F-6	Number and percentage of students and/or former students surveyed who have priticipated in special social development programs (e.g., the Peace Corps, and VISTA).	4-YR PUB 7.0 (3) 51.2 (22) 41.9 (18) 4-YR PRIV 14.3 (7) 51.0 (25) 34.7 (17) UNIV PUB 9.1 (4) 40.9 (18) 50.0 (22) UNIV PRIV 5.6 (2) 47.2 (17) 47.2 (17)
F-7	Number and percentage of students and/or former students surveyed who have changed their political party affiliation within a certain period of time.	4-YR PUB 4-YR PRIV 2.0 (1) 18.4 (9) 79.6 (39) UNIV PRIV 2.8 (1) 16.7 (6) 80.6 (29)
F-8	Amount of monetary contributions per student and/or former student made to political, charitable, and social organizations or special interest groups within a certain time period relative to income category.	4-YR PUB 4.7 (2) 16.3 (7) 79.1 (34) 4-YR PRIV 6.1 (3) 22.4 (11) 71.4 (35) UNIV PUB 4.5 (2) 29.5 (13) 65.9 (29) UNIV PRIV 2.8 (1) 41.7 (15) 55.6 (20)
-9	Average amount of time devoted to political, charitable, and social organizations or special interest groups within a certain time period per student and/or former student.	4-YR PUB 2.3 (1) 34.9 (15) 62.8 (27) 4-YR PRIV 10.2 (5) 26.5 (13) 63.3 (31) UNIV PUB 2.3 (1) 29.5 (13) 68.2 (30) UNIV PPIV 5.6 (2) 36.1 (13) 58.3 (21)
-10	Student and/or former student scores on a scale measuring their political attitudes and beliefs.	4-YR PUB 4-YR PRIV 2.1 (1) 31.2 (15) 66.7 (32) UNIV PUB 2.3 (1) 34.1 (15) 63.6 (28) UNIV PRIV 5.6 (2) 33.3 (12) 61.1 (22)
-11	Number and percentage of students and/or former students surveyed who have used mechanisms of the political process (e.g., voted in elections, circulated petitions, attended hearings, written letters to their congressman).	4-YR PUB 2.3 (1) 27.9 (12) 69.8 (30) 4-YR PRIV 6.1 (3) 28.6 (14) 65.3 (32) UNIV PUB 2.3 (1) 36.4 (16) 61.4 (27) UNIV PRIV 5.6 (2) 33.3 (12) 61.1 (22)
F-12	Student and/or former student scores on a scale measuring their racial and ethnic attitudes and beliefs.	4-YR PUB 20.9 (9) 32.6 (14) 46.5 (20) 4-YR PRIV 14.3 (7) 44.9 (22) 40.8 (20) UNIV PUB 13.6 (6) 45.5 (20) 40.9 (18) UNIV PRIV 19.4 (7) 30.6 (11) 50.0 (18)
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	OUTCOME MEASURE		NEED (%) (n)	WOULD LIKE	DON'T NEED
F-13	Student and/or former student scores on a scale measuring their ethical and moral attitudes and beliefs and their concern for human welfare.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	18.6 (8) 16.3 (8) 13.6 (6) 16.7 (6)	41.9 (18) 53.1 (26) 45.5 (20) 38.9 (14)	39.5 (17) 30.6 (15) 40.9 (18) 44.4 (16)
F-14	Student and/or former student scores on a scale measuring their current and desired social and economic level.	4-YR PUB 4-YR PRIV UMIV PUB UNIV PRIV	11.9 (5) 18.4 (9) 6.8 (3) 5.6 (2)	61.9 (26) 44.9 (22) 59.1 (26) 38.9 (14)	26.2 (11) 36.7 (18) 34.1 (15) 55.6 (20)
F-15	Student and/or former student scores on a scale measuring their interest in and acquaintance with the arts, great books, and other cultural artifacts and activities.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	19.0 (8) 14.3 (7) 15.9 (7) 16.7 (6)	47.6 (20) 53.1 (26) 50.0 (22) 38.9 (14)	33.3 (14) 32.7 (16) 34.1 (15) 44.4 (16)
F-16	Number of students and/or former students having a personal library of well-known literary works or pieces of art as a percentage of all students and/or former students surveyed.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	11.9 (5) 6.1 (3) 6.8 (3) 5.6 (2)	28.6 (12) 36.7 (18) 36.4 (16) 33.3 (12)	59.5 (25) 57.1 (28) 56.8 (25) 61.1 (22)
G-1	Number of nonmatriculating participants enrolled in instructional programs as a percentage of the total number of persons in those programs.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	32.6 (14) 45.8 (22) 37.2 (16) 20.0 (7)	51.2 (22) 29.2 (14) 51.2 (22) 48.6 (17)	16.3 (7) 25.0 (12) 11.6 (5) 31.4 (11)
G-2	Nonmatriculating participant scores on a scale measuring their degree of satisfaction with their educational experience.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	27.9 (12) 25.0 (12) 25.6 (11) 5.7 (2)	44.2 (19) 47.9 (23) 51.2 (22) 48.6 (17)	27.9 (12) 27.1 (13) 23.3 (10) 45.7 (16)
G-3	Number and percentage of nonmatriculating participants surveyed who received a promotion and/or salary increase as a result of job-related aducational experiences.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	18.6 (8) 10.4 (5) 23.3 (10) 5.7 (2)	53.5 (23) 56.2 (27) 46.5 (20) 48.6 (17)	27.9 (12) 33.3 (16) 30.2 (13) 45.7 (16)
G-4	Scores of nonmatriculating participants, who are working or have returned to their job, on a scale measuring their satisfaction with their job performance as a result of job-related educational experiences.	- 4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	23.3 (10) 10.6 (5) 16.3 (7) 2.9 (1)	41.9 (18) 46.8 (22) 53.5 (23) 42.9 (15)	34.9 (15) 42.6 (20) 30.2 (13) 54.3 (19)
G-5	Average amount of time per faculty/staff member spent in selected educational activities for their personal educational growth and development while at the institution.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	32.6 (14) 27.1 (13) 44.2 (19) 22.9 (8)	46.5 (20) 56.2 (27) 37.2 (16) 37.1 (13)	20.9 { 9} 16.7 { 8} 18.6 { 8} 40.0 { 14 }
G-6	Faculty/staff scores on a scale measuring their perceptions of their educational growth and development as a result of their experiences while at the institution.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	23.3 (10) 20.8 (10) 34.9 (15) 22.9 (8)	46.5 (20) 58.3 (28) 44.2 (19) 37.1 (13)	30.2 (13) 20.8 (10) 20.9 (9) 40.0 (14)
H-1	Average amount of time faculty/staff and students spent in selected community service activities (e.g., giving professional service and advice outside the institution) within a certain time period.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	25.6 (11) 22.9 (11) 27.3 (12) 25.0 (9)	58.1 (25) 56.2 (27) 54.5 (24) 44.4 (16)	16.3 (7) 20.8 (10) 18.2 (8) 30.6 (11)
H-2	Estimated replacement value of specific community services received by individuals or organizations that receive the services.	4-YR PUB 4-YK PRIV UNIV PUB UNIV PRIV	21.4 (9) 6.1 (3) 18.2 (8) 11.4 (4)	52.4 (22) 36.7 (18) 54.5 (24) 48.6 (17)	26.2 (11) 57.1 (28) 27.3 (12) 40.0 (14)
H-3	Ratio of total income for community services to total budget for community services.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	16.7 (7) 28.6 (14) 25.0 (11) 32.4 (11)	50.0 (21) 30.6 (15) 50.0 (22) 20.6 (7)	33.3 (14) 40.8 (20) 25.0 (11) 47.1 (16)

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	OUTCOME MEASURE		NEED (%) (n)	WOULD LIKE (%) (n)	DON'T NEED (%) (n)
H-4	Number of faculty/staff on leave from the institution to local, state, and national governments in a policy, management or technical role.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	51.2 (22) 46.9 (23) 47.7 (21) 41.7 (15)	30.2 (13) 20.4 (10) 36.4 (16) 22.2 (8)	18.6 (8) 32.7 (16) 16.9 (7) 36.1 (13)
H-5	Number of individuals not associated with the institution who were served by a particular support program (e.g., the computer center, the library, the health services staff, etc.) as a percentage of the total number of individuals served within a certain time period.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	34.9 (15) 32.7 (16) 40.9 (18) 33.3 (12)	51.2 (22) 42.9 (21) 43.2 (19) 36.1 (13)	14.0 (6) 24.5 (12) 15.9 (7) 30.6 (11)
H-6	Estimated monetary value of specific community services (e.g., health services, computer services, etc.) offered relative to other comparable services offered elsewhere.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	37.2 (16) 20.8 (10) 29.5 (13) 31.4 (11)	39.5 (17) 37.5 (18) 52.3 (23) 31.4 (11)	23.3 (10) 41.7 (20) 18.2 (8) 37.1 (13)
H-7	Number and percentage of persons attending selected extramural, cultural, and recreational events who are not students or members of the institution's faculty/staff.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	25.6 (11) 20.4 (10) 22.7 (10) 19.4 (7)	53.5 (23) 46.9 (23) 52.3 (23) 38.9 (14)	20.9 (9) 32.7 (16) 25.0 (11) 41.7 (15)
1-1	Number and percentage of students who are employed in businesses, agencies and organiztions in the community.	4-YR PUB 4-YR PRIV UMIV PUB UNIV PRIV	46.5 (20) 24.5 (12) 29.5 (13) 36.1 (13)	44.2 (19) 57.1 (28) 56.8 (25) 41.7 (15)	9.3 (4) 18.4 (9) 13.6 (6) 22.2 (8)
1-2	Number and percentage of graduates of a particular graduating class who are employed in-state versus out-of-state.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	44.2 (19) 24.5 (12) 27.3 (12) 13.9 (5)	44.2 (19) 42.9 (21) 47.7 (21) 50.0 (18)	11.6 (5) 32.7 (16) 25.0 (11) 36.1 (13)
1-3	Total dollar amount of goods and services purchased by the institution from a particular sector of the community within a certain time period.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	32.6 (14) 22.4 (11) 25.0 (11) 25.0 (9)	48.8 (21) 40.8 (20) 50.0 (22) 47.2 (17)	18.6 (8) 36.7 (18) 35.0 (11) 27.8 (10)
1-4	Faculty/staff and student expenditures in the community within a certain time period.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	34.9 (15) 22.4 (11) 25.0 (11) 16.7 (6)	53.5 (23) 44.9 (22) 52.3 (23) 52.8 (19)	11.6 (5) 32.7 (16) 22.7 (10) 30.6 (11)
:-5	Estimated dollar amount of the institution's payroll as a percentage of the estimated total community payroll.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	46.5 (20) 24.5 (12) 34.1 (15) 25.0 (9)	39.5 (17) 32.7 (16) 45.5 (20) 41.7 (15)	14.0 (6) 42.9 (21) 20.5 (9) 33.3 (12)
-6	Amount of land removed from the community tax base as a result of the existence of the institution.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	37.2 (16) 36.7 (18) 31.8 (14) 30.6 (11)	41.9 (18) 32.7 (16) 40.9 (16, 35.1 (13)	20.9 (9) 30.6 (15) 27. (12) 33.3 (12)
-7	Employers scores on a scale measuring their degree of satisfaction with the performance of students and/or former students on the job.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	48.8 (21) 27.1 (13) 25.0 (11) 13.9 (5)	37.2 (16) 50.0 (24) 45.5 (20) 41.7 (15)	14.0 (6) 22.9 (11) 29.5 (13) 44.4 (16)
-8	Amount of private housing owned or rented by students and/or faculty/staff as a percentage of the total housing available in the community.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	37.2 (16) 20.8 (10) 31.8 (14) 13.9 (5)	48.8 (21) 37.5 (18) 38.6 (17) 44.4 (16)	14.0 (6) 41.7 (20) 29.5 (13) 41.7 (15)
-9 	Value of community business properties attributable to institution- related expenditures.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	23.3 (10) 6.5 (3) 18.2 (8) 14.3 (5)	53.5 (23) 39.1 (18) 50.0 (22) 28.6 (10)	23.3 (10) 54.3 (25) 31.8 (14) 57.1 (20)
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	OUTCOME -MEASURE		NEED (%) (n)	WOULD LIKE (%) (n)	DON'T NEED
I-10	Amount and percentage of the local credit base due to institution-related deposits in community banks.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	20.9 (9) 8.5 (4) 20.5 (9) 13.9 (5)	53.5 (23) 38.3 (18) 45.5 (20) 33.3 (12)	25.6 (11) 53.2 (25) 34.1 (15) 52.8 (19)
I-11	Extent to which the presence of the institution influences businesses locating in the community.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	34.9 (15) 24.5 (12) 31.8 (14) 22.2 (8)	48.8 (21) 40.8 (20) 52.3 (23) 52.8 (19)	16.3 (7) 34.7 (17) 15.9 (7) 25.0 (9)
I-12	Amount and percentage of federal revenue sharing allocation attributable to the institution's presence in the community.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	30.2 (13) 14.3 (7) 27.3 (12) 16.7 (6)	48.8 (21) 40.8 (20) 47.7 (21) 36.1 (13)	20.9 (9) 44.9 (22) 25.0 (11) 47.2 (17)
I-13	Institution-related contributions as a percentage of total community fund raising (e.g., United Fund program).	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	27.9 (12) 14.3 (7) 18.2 (8) 11.1 (4)	48.8 (21) 34.7 (17) 50.0 (22) 44.4 (16)	23.3 (10) 51.0 (25) 31.8 (14) 44.4 (16)
1-14	Geographic distribution of alumni.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	27.9 (12) 42.9 (21) 31.8 (14) 30.6 (11)	55.8 (24) 40.8 (20) 50.0 (22) 50.0 (18)	16.3 (7) 16.3 (8) 18.2 (8) 19.4 (7)
I-15	Community attitudes toward the institution (e.g., attitudes toward the institution's contribution to community social/cultural activities and the institution's impact on the amount of crime in the community).	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	60.5 (26) 55.1 (27) 36.4 (16) 31.4 (11)	27.9 (12) 32.7 (16) 54.5 (24) 45.7 (16)	11.6 (5) 12.2 (6) 9.1 (4) 22.9 (8)
I-16	Number of persons from the community employed by the institution.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	53.5 (23) 38.8 (19) 52.3 (23) 33.3 (12)	27.9 (12) 30.6 (15) 31.8 (14) 36.1 (13)	18.6 (8) 30.6 (15) 15.9 (7) 30.6 (11)
J-1	Distribution of publications by type of publication (e.g., books, monographs, etc.) per student, former student, and/or faculty member within a certain time period.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	7.0 (3) 12.5 (6) 22.7 (10) 25.0 (9)	53.5 (23) 47.9 (23) 43.2 (19) 44.4 (16)	39.5 (17) 39.6 (19) 34.1 (15) 30.6 (11)
J-2	Number of times a given publication is cited in bibliographies of other authors within a certain time period.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	2.3 (1) 4.1 (2) 11.4 (5) 13.9 (5)	16.3 (7) 24.5 (12) 40.9 (18) 25.0 (9)	81.4 (35) 71.4 (35) 47.7 (21) 61.1 (22)
J-3	Number of articles published per faculty/staff member in prestigious journals within a certain time period.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	23.3 (10) 26.5 (13) 29.5 (13) 30.6 (11)	41.9 (18) 40.8 (20) 38.6 (17) 41.7 (15)	34.9 (15) 32.7 (16) 31.8 (14) 27.8 (10)
J-4	Number of papers presented at professional meeting per studert, former student, and/or faculty/staff member within a cercain time period.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	11.6 (5) 22.4 (11) 25.0 (11) 30.6 (11)	51.2 (22) 51.0 (25) 43.2 (19) 47.2 (17)	37.2 (16) 26.5 (13) 31.8 (14) 22.2 (8)
J-5	Number of awards and citations received by students, former students, and/or faculty members for their research and art products within a certain time period.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	14.0 (6) 24.5 (12) 20.5 (9) 27.8 (10)	58.1 (25) 59.2 (29) 52.3 (23) 50.0 (18)	27.9 (12) 16.3 (8) 27.3 (12) 22.2 (8)
J-6	Average amount of faculty time spent in selected research and art producing activities.	4-YR PUB 4-YR PRIV UNIV PUB UNIV PRIV	30.2 (13) 29.8 (14) 38.6 (17) 38.9 (14)	39.5 (17) 44.7 (21) 38.6 (17) 36.1 (13)	30.2 (13) 25.5 (12) 22.7 (10) 25.0 (9)

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<u> </u>	OUTCOME MEASURE	NEED WOULD LIKE DON'T NEPD
J-7	Number of proposals funded for certain purposes (e.g., research versus training) by level of funding as a percentage of all proposals submitted.	4-YR PUB 41.9 (18) 44.2 (19) 14.0 (6) 4-YR PRIV 38.8 (19) 28.6 (14) 32.7 (16) UNIV PUB 47.7 (21) 38.6 (17) 13.6 (6) UNIV PRIV 44.4 (16) 30.6 (11) 25.0 (9)
J-8	Total dollar amount of gifts and/or grants received for certain purposes (e.g., research versus training) as a percentage of total budget within a certain time period.	4-YR PUB 58.1 (25) 27.9 (12) 14.0 (6) 4-YR PRIV 55.1 (27) 16.3 (8) 28.6 (14) UNIV PUB 52.3 (23) 31.8 (14) 15.9 (7) UNIV PRIV 63.9 (23) 22.2 (8) 13.9 (5)
J-9	Number and percentage of faculty/staff surveyed who have created films, taped lectures, etc. within a certain time period.	4-YR PUB 23.3 (10) 37.2 (16) 39.5 (17) 4-YR PRIV 28.6 (14) 32.7 (16) 38.8 (19) UNIV PUB 18.2 (8) 56.8 (25) 25.0 (11) UNIV PRIV 19.4 (7) 52.8 (19) 27.8 (10)
J-10	Number of patents and/or copyrights received per student, former student, and/or faculty member within a certain time period.	4-YR PUB
J-11	Number of books or monographs written by faculty/staff that are published commercially within a certain time period.	4-YR PUB 4-YR PRIV 25.6 (11) 39.5 (17) 34.9 (15) 28.6 (14) 36.7 (18) 34.7 (17) 25.0 (11) 52.3 (23) 22.7 (10) 36.1 (13) 47.2 (17) 16.7 (6)
J-12	Judgements of peer groups and/or potential beneficiary groups regarding the worth/impact of research project results.	4-YR PUB 25.6 (11) 41.9 (18) 32.6 (14) 4-YR PRIV 18.4 (9) 32.7 (16) 49.0 (24) UNIV PUB 27.3 (12) 47.7 (21) 25.0 (11) UNIV PRIV 33.3 (12) 41.7 (15) 25.0 (9)
J-13	Number and percentage of graduates engaged in research activities.	4-YR PUB 16.3 (7) 62.8 (27) 20.9 (9) 4-YR PRI 16.3 (8) 49.0 (24) 34.7 (17) UNIV PUB 15.9 (7) 50.0 (22) 34.1 (15) UNIV PRIV 13.9 (5) 52.8 (19) 33.3 (12)
J-14	Number and percentage of faculty /staff and students invited to participate in professional meetings and conferences.	4-YR PUB 23.3 (10) 46.5 (20) 30.2 (13) 4-YR PRIV 28.6 (14) 40.8 (20) 30.6 (15) UNIV PUB 15.9 (7) 45.5 (20) 38.6 (17) UNIV PRIV 25.0 (9) 47.2 (17) 27.8 (10)
J-15	Number and percentage of graduates who have produced or exhibited certain art forms (e.g., paintings, sculptures, plays, etc.).	4-YR PUB 7.0 (3) 60.5 (26) 32.6 (14) 4-YR PRIV 26.5 (13) 49.0 (24) 24.5 (12) UNIV PUB 15.9 (7) 47.7 (21) 36.4 (16) 13.9 (5) 50.0 (18) 36.1 (13)
FR	129	

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TABLE C.5

The Percentage and Number of Responses to the "Needs" Question, by College Administrators, State-Level Planners, and State Legislators*



^{*}It should be noted in reviewing this table that if a respondent did not record a choice for any measure in the questionnaire, the no response was not considered in calculating the distribution of responses across the question categories in the table.

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	OITCOME MEASURE	<u> </u>	NEED (%) (n)	NOULD LIKE (%) (n)	DON'T NEED
A-1	Student scores on tests that indicate development in their breadth of	ADMIN	33.3 (78)	40.6 (95)	(%) (n) 26.1 (61)
	knowledge about facts and principles across several broad fields of study (e.g., the humanities, the physical sciences, etc.).	PLANNERS	32.0 (16)	50.0 (25)	18.0 (9)
	(cigos and namentotors and proportion) sociology design	LEGISLATORS	30.8 (4)	53.8 (7)	15.4 (2)
			47	00.0 (77	13.4 (2/
\-2	Student scores on tests that indicate development in their depth of know-	ADMIN	32.1 (75)	42.3 (99)	25.6 (60)
	ledge concerning facts and principles in the particular fields in which a student elects to study.	PLANNERS	44.9 (22)	36.7 (18)	18.4 (9)
		LEGISLATORS	38.5 (5)	46.2 (6)	15.4 (2)
				10.2 (0)	10.4 (27
-3	Number of students passing certification or licensing exams (e.g., bar	ADMIN	29.7 (69)	47.4 (110)	22.8 (53)
	exam, CPA, LPN) on the first attempt as a percentage of all students	PLANNERS	60.8 (31)	39.2 (20)	0. (0)
	taking the exam.	LEG!SLATORS	46.2 (6)	53.8 (7)	0. (0)
				1 00.0 1 11	[]
-4	Student scores on tests that indicate their ability to apply general or	ADMIN	27.5 (64)	45.1 (105)	27.5 (64)
	specialized knowledge to a problem and to implement a solution.	PLANNERS	30.0 (15)	46.0 (23)	1 3
		LEGISLATORS	25.0 (3)	50.0 (6)	24.0 (12)
			20.0 (3)	30.0 (8)	25.0 (3)
-5	Student scores on tests that indicate thier ability to <u>analyze</u> problems	ADMIN	26.4 (61)	45.0 (104)	20 6 / 66
-	(e.g., the recognition of biased points in an article or speech).	PLANNERS	22.0 (11)	54.0 (27)	28.6 (66)
		LEGISLATORS	15.4 (2)	61.5 (8)	24.0 (12)
		2201000110110	10.4 (27	1 01.0 (0)	23.1 (3)
-6	Number of patents awarded and copyrights obtained by students and/or	ADMIN	3.9 (9)	38.6 (90)	57.5 (134)
	former students within a certain time period.	PLANNERS	10.0 (5)	44.0 (22)	46.0 (23)
		LEGISLATORS	7.7 (1)	30.8 (4)	61.5 (8)
				1 00.0 (4)	01.0 (0)
-7	Student scores on tests that indicate their ability to read, write,	ADMIN	52.8 (123)	26.6 (62)	20.6 (48)
	speak, and/or listen.	PLANNERS	43.1 (22)	47.1 (24)	9.8 (5)
		LEGISLATORS	65 (8)	38.5 (5)	ο. (ω)
-8	Number and percentage of students surveyed who have participated in	ADMIN	16.8 (39)	44.8 (104)	38.4 (89)
	activities that enhance their communication skills (e.g., debate, en- counter groups, etc.).	PLANNERS	5.9 (3)	35.3 (18)	58.8 (30)
		LEGISLATORS	61.5 (8)	84.6 (11)	7.7 (1)
				· · · · · · · · · · · · · · · · · · ·	
-9	Student scores on tests that indicate their ability to perform tasks requiring physical dexterity and skill.	ADMIN	5.2 (12)	31.3 (73)	63.5 (148)
	requiring physical dexcerity and skill.	PLANNERS	7.8 (4)	27.5 (14)	64.7 (33)
		LEGISLATORS	15.4 (2)	84.6 (11)	0. (0)
-10	Number and percentage of students surveyed who have participated in activities that enhance thier athletic skills (e.g., intramural and	ADMIN	9.5 (22)	44.4 (103)	46.1 (107)
	varsity sports).	PLANNERS	0. (0)	31.4 (16)	68.6 (35)
	į	LEGISLATORS	0. (0)	53.8 (7)	46.2 (6)
					·
-1	Number and percentage of students surveyed identifying a certain degree,	ADMIN	44.4 (103)	42.2 (98)	13.4 (31)
	diploma, or certificate as the highest degree planned.	PLANNERS	74.5 (38)	19.6 (10)	5.9 (3)
		LEGISLATORS	30.8 (4)	53.8 (7)	15.4 (2)
					
-2	Number and percentage of students surveyed who have changed majors (lower	ADMIN	36.6 (85)	44.4 (103)	19.0 (44)
	divison, upper division, and/or graduate) within a certain time period.	PLANNERS	47.1 (24)	43.1 (22)	9.8 (5)
	!	LEGISLATORS	7.7 (1)	76.9 (10)	15.4 (2)
				·	
	133				

	OUTCOME MEASURE	NEED MOULD LIKE DON'T NEED (%) (n) (%) (n) (%) (n)
		(%) (n) (%) (n) (%) (n) ADMIN 48.1 (111) 34.2 (79) 17.7 (41)
8-3	Number and percentage of students surveyed who are taking noncredit. inde-	PLANNERS 64.7 (33) 25.4 (15) 5.9 (3)
	pendent study, or special courses.	LEGISLATORS 50.0 (6) 33.3 (4) 16.7 (2)
		ADMIN 77.7 (41) 50.6 (717) 31.6 (73)
B-4	Number of awards and citations received per student and/or former student for their academic performance.	PLANNERS 11.8 (6) 52.9 / 27) 35.3 (18)
	TOT THEIR academic performance.	LEGISLATORS 0. (0) 92.3 (12) 7.7 (1)
8-5	Number of students receiving a degree, diploma, and certificate within a	ADMIN 71.3 (164) 21.3 (49) 7.4 (17)
	certain time period.	PLANNERS 86.3 (44) 11.8 (6) 2.0 (1)
		LEGISLATORS 33.3 (4) 50.0 (6) 16.7 (2)
8-6	Average amount of time it takes a student to earn a degree, diploma, or	ADMIN 52.8 (122) 37.2 (86) 10.0 (23)
	certificate.	PLANNERS 66.7 (34) 31.4 (16) 2.0 (1)
		LEGISLATORS 30.8 (4) 53.8 (7) 15.4 (2)
B-7	Number of students graduating from the institution after a certain period	ADMIN 61.6 (143) 29.7 (69) 8.6 (20)
1	of time as a percentage of their entering class.	PLANNERS 76.0 (38) 24.0 (12) 0. (0)
		LEGISLATORS 61.5 (8) 38.5 (5) 0. (0)
B-8	Number and percentage of graduates for the year who transferred from	ADMIN 56.0 (130) 34.1 (79) 9.9 (23)
	another school.	PLANNERS 62.7 (32) 29.4 (15) 7.8 (4)
		LEGISLATORS 38.5 (5) 53.8 (7) 7.7 (1)
B-9	Number and percentage of students leaving the institution prior to receiving	ADMIN 71.5 (166) 23.3 (54) 5.2 (12)
	a degree, diploma or certificate during a particular academic term or year.	PLANNERS 72.5 (37) 27.5 (14) 0. (0)
	, Jeer .	LEGISLATORS 69.2 (9) 23.1 (3) 7.7 (1)
B-10	Number of graduates accepted for study in another educational program that	ADMIN 39.7 (91) 44.1 (101) 16.2 (37)
	will result in a degree, diploma or certificate as a percentage of those applying.	PLANNERS 54:0 (27) 40.0 (20) 6.0 (3)
	-	LEGISLATORS 53.8 (7) 46.2 (6) 0. (0)
		Anueu
B-11	Number of graduates working toward or receiving another educational degree. diploma, or certificate after a certain time period following graduation	ADMIN 24.7 (57) 56.7 (131) 18.6 (43) PLANNERS 56.0 (28) 40.0 (20) 4.0 (2)
	as a percentage of their graduating class.	LEGISLATORS 23.1 (3) 61.5 (8) 15.4 (2)
	Student and/or former student scores on a scale measuring their perceptions	ADMIN 28.0 (65) 47.8 (111) 24.1 (56)
8-12	of their educational achievement.	PLANNERS 42.0 (21) 38.0 (19) 20.0 (10)
		LEGISLATORS 38.5 (5) 38.5 (5) 23.1 (3)
B-13	Student scores on a scale measuring their perceptions about the amount of	ADMIN 28.1 (65) 47.6 (110) 24.2 (56)
0-13	learning that took place in certain activities sponsored by the institution	PLANNERS 26.0 (13) 48.0 (24) 26.0 (13)
	outside of formal instruction.	LEGISLATORS 25.0 (3) 58.3 (7) 16.7 (2)
8-14	Student scores on a scale measuring their interest in continued self-	ADMIN 25.1 (58) 48.9 (113) 26.0 (60)
0-14	initiated study and inquiry.	PLANNERS 25.5 (13) 43.1 (22) 31.4 (16)
		LEGISLATORS 23.1 (3) 53.8 (7) 23.1 (3)
1		
C-1	Number and percentage of former students surveyed who indicate that they	ADMIN 26.6 (62) 58.8 (137) 14.6 (34)
"	would send their children to the same school.	PLANNERS 15.7 (8) 41.2 (21) 43.1 (22)
		LEGISLATORS 15.4 (2) 76.9 (10) 7.7 (1)
~	134	

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	OUTCOME MEASURE	<u>I</u>	MEED (x) (n)	WOULD LIKE	DON'T NEED (%) (n)
C-2	Average amount of alumni gifts within a certain time period after	ADMIN	25.3 (61)	48.3 (112)	25.4 (59)
	graduation.	PLAMMERS	5.9 (3)	39.2 (20)	54.9 (28)
		LEGISLATORS	16.7 (2)	41.7 (5)	41.7 (5)
			·	<u></u>	
C-3	Student and/or former student scores on a scale measuring their degree	ADMIN	44.6 (104)	44.6 (104)	10.7 (25)
	of satisfaction with their overall educational experience.	PLANNERS	45.1 (23)	41.2 (21)	13.7 (7)
		LEGISLATORS	30.8 (4)	69.2 (9)	0. (0)
			•		
C-4	Student scores on a scale measuring their degree of satisfaction with their knowledge and skills development (e.g., changes in their breadth and depth	ADMIN PLANNERS	37.8 (88) 35.3 (18)	44.6 (104) 47.1 (24)	17.6 (41)
	of thowledge, changes in their communication skills).	LEGISLATORS	38.5 (5)	53.8 (7)	17.6 (9) 7.7 (1)
					
C-5	Student scores on a scale measuring their degree of satisfaction with their personal development (e.g., changes in their ability to cope with new	ADMIN	32.6 (76)	46.8 (109)	20.6 (48)
	situations, changes in their self-concept).	PLANNERS	19.6 (10)	52.9 (27)	27.5 (14)
		LEGISLATORS	23.1 (3)	61.5 (8)	15.4 (2)
C-6	Student scores on a scale measuring their degree of satisfaction with their	ADMIN	30.9 (72)	46 0 /3003	T 40 5 4 ===
	social and cultural development (e.g., changes in their ability to get along with others, changes in their appreciation of cultural activities and	PLANNERS	13.7 (7)	46.8 (109)	22.3 (52)
	artifacts).	LEGISLATORS	0. (0)	60.8 (31)	25.5 (13)
				99.3 (10)	16.7 (2)
C-7	Student scores on a scale measuring their degree of satisfaction with their progress in achieving their educational career goals.	ADHIN	42.9 (100)	43.3 (101)	13.7 (32)
	progress in active ing their educational career goals.	PLANNERS	43.1 (22)	43.1 (22)	13.7 (7)
		LEGISLATORS	30.8 (4)	53.8 (7)	15.4 (2)
:-8	Shirdant against a sure to the state of the				
L-0	Student scores on a scale measuring their degree of satisfaction with their progress in achieving their occupational career goals.	ADMIN	43.3 (101)	43.8 (102)	12.9 (30)
1		PLANNERS LEGISLATORS	51.0 (26)	41.2 (21)	7.8 (4)
		LEGISLATURS [53.8 (7)	38.5 (5)	7.7 (1)
D-1	Number and percentage of former students (graduates and nongraduates) surveyed	ADMIN [40.0 / 00)	T.,	
	who were employed within a certain time period after leaving the institution.	PLANNERS	42.2 (98) 68.6 (35)	46.6 (108) 29.4 (15)	11.2 (26)
	ta cron.	LEGISLATORS	69.2 (9)	23.1 (3)	2.0 (1) 7.7 (1)
)-2	Number and percentage of former students (graduates and non-graduates) surveyed who received the job of their first choice.	ADMIN	29.3 (68)	49.6 (115)	21.1 (49)
ł	The state of the s	PLANNERS	47.1 (24)	41.2 (21)	11.8 (6)
		LEGISLATORS	46.2 (6)	46.2 (6)	7.7 (1)
-3	Average first salary of former students.	ADMIN [06.0.4.65		· · · · · · · · · · · · · · · · · · ·
١		PLANNERS	26.3 (61) 47.1 (24)	56.0 (130)	17.7 (41)
		LEGISLATORS	38.5 (5)	43.1 (22)	9.8 (5)
			(3)	46.2 (6)	15.4 (2)
-4	Oistribuiton of former students (graduates and nongraduates) across	ADMIN [20.8 (48)	58.9 (136)	20.3 (47)
- 1	income categories within a certain time period after leaving the institution.	PLANNERS	49.0 (25)	37.3 (19)	13.7 (7)
Ì		LEGISLATORS	23.1 (3)	53.8 (7)	23.1 (3)
		_			
-5	Former students (graduates and nongraduates) scores on a scale measuring their degree of satisfaction with their job performance.	ADMIN	22.1 (51)	50.2 (116)	27.7 (64)
	403.00 or savistaction with their jub performance.	PLANNERS LEGISLATORS	21.6 (11) 16.7 (2)	56.9 (29) 66.7 (8)	21.6 (11)
			10.7 (2)	00.7 (8)	16.7 (2)
-6	Number of professional occupation awards and citations received per	ADMIN [9.5 (22)	53.4 (124)	37.1 (86)
}	former student surveyed.	PLANNERS	9.8 (5)	45.1 (23)	45.1 (23)
1		LEGISLATORS	8.3 (1)	50.0 (6)	41.7 (5)
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			NEED	WOULD LIKE	DON'T NEED
-	OUTCOME MEASURE	ADMIN	(%) (n) 17.7 (41)	(g) (n) 57.1 (132)	(%) (n) 25.1 (58)
D-7	Number and percentage of former students surveyed who are in management positions within a certain time period after leaving the institution.	PLANNERS	16.0 (8)	60.0 (30)	24.0 (12)
		LEGISLATORS	8.3 (1)	55.7 (8)	25.0 (3)
D-8	Number of voluntary/involuntary changes in employment within a given time	NIMOA	13.4 (31)	46.6 (108)	40.1 (93)
1	period per former student surveyed.	PLANNERS	17.6 (9)	47.1 (24)	35.3 (18)
		LEGISLATORS	8.3 (1)	58.3 (7)	33.3 (4)
D-9	Number of voluntary/involuntary changes in <u>career field</u> within a given time period per former student surveyed.	ADMIN	15.5 (36)	47.8 (111)	36.6 (85)
	time period per former statent surveyed.	PLANNERS LEGISLATORS	31.4 (16) 30.8 (4)	45.1 (23) 46.2 (6)	23.5 (12)
		CEOISERIORS	30.0 (4/	1 40.2 (6)	23.1 (3)
D-10	Average first salary expectations of students.	ADMIN	17.7 (41)	52.2 (121)	30.2 (70)
		PLANNERS	17.6 (9)	66.7 (34)	15.7 (8)
		LEGISLATORS	16.7 (2)	66.7 (8)	16.7 (2)
0-11	Number and percentage of students surveyed who are aspiring to a particular type of occupational career.	ADMIN	52.8 (123)	35.6 (83)	11.6 (27)
	type or occupational career.	PLANNERS	68.6 (35)	27.5 (14)	3.9 (2)
		LEGISLATORS	61.5 (8)	30.8 (4)	7.7 (1)
0-12	Number and percentage of students and/or former students surveyed who are	ADMIN	31.2 (72)	42.4 (98)	26.4 (61)
	seeking certain levels of employment.	PLANNERS	37.3 (19)	45.1 (23)	17.6 (9)
		LEGISLATORS	33.3 (4)	58.3 (7)	8.3 (1)
D-13		ADMIN	37.9 (88)	44.4 (103)	17.7 (41)
	surveyed accepting employment in their major field of study.	PLANNERS	72.5 (37)	27.5 (14)	0. (0)
		LEGISLATORS	53.8 (7)	38.5 (5)	1.7 (1)
E-1	Number of students and/or former students reporting certain mental and physical illnesses as a percentage of all the students and/or former	ADMIN	13.9 (32)	33.8 (78)	52.4 (121)
	students surveyed.	PLANNERS LEGISLATORS	9.8 (5)	31.4 (16) 53.8 (7)	58.8 (30) 38.5 (5)
				1 00.0 (//	3.5 (0)
E-2	Number and percentage of students surveyed who have participated in special mental health counseling programs within a certain period of	ADMIN	15.6 (36)	31.6 (73)	52.8 (122)
	time.	PLANNERS	7.8 (4)	35.3 (18)	56.9 (29)
		LEGISLATORS	8.3 (1)	66.7 (8)	25.0 (3)
E-3	Number and percentage of students and/or former students surveyed who	ADMIN	5.2 (12)	30.3 (70)	64.5 (149)
	belong to cr hold office in religious organizations.	PLANNERS LECTEL ATORS	2.0 (1)	5.9 (3)	92.2 (47)
		LEGISLATORS	8.3 (1)	41.7 (5)	50,0 (6)
E-4	Student and/or former student scores on a scale measuring their religious and spiritual attitudes and beliefs.	ADMIN	7.8 (18)	29.0 (67)	63.2 (146)
	and spiritual accitudes and Deliers.	PLANNERS	2.0 (1)	9.8 (5)	88.2 (45)
		LEGISLATORS	7.7 (1)	30.8 (4)	61.5 (8)
E-5	Number and percentage of students and/or former students surveyed who	ADMIH	4.8 (11)	25.0 (60)	69.3 (160)
	regularly attend religious services.	PLANNERS	2.0 (1)	7.8 (4)	90.2 (46)
		LEGISLATORS	0. (0)	30.8 (4)	69.2 (9)
E-6	Student and/or former student scores on a scale measuring their attitudes	ADMIN	14.3 (33)	48.1 (111)	37.7 (87)
	and beliefs toward new or different ideas and things.	PLANNERS	13.7 (7)	31.4 (16)	54.9 (28)
		LEGISLATORS	0. (0)	41.7 (5)	58.3 (7)
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	OUTCOME MEASURE		NEED (%) (n)	WOULD LIKE	DON'T NEED (%) (n)
E-7	Student and/or former student scores on a scale measuring their perceptions about thier self-image.	ADMIN PLANNERS LEGISLATORS	22.9 (53) 13.7 (7) 0. (0)	36.8 (85) 35.3 (18) 50.0 (6)	40.3 (93) 51.0 (26) 50.0 (6)
F-1	Number and percentage of students and/or former students surveyed who hold membership in social, charitable, political, or civic organizations.	ADMIN PLANNERS LEGISLATORS	7.3 (17) 2.0 (1) 0. (0)	46.4 (108) 39.2 (20) 46.2 (6)	46.4 (108) 58.8 (30) 53.8 (7)
F-2	Number of awards and citations earned per student and/or former student for social contributions.	ADMIN PLANNERS LEGISLATORS	5.6 (13) 5.9 (3) 0. (0)	50.6 (118) 27.5 (14) 46.2 (6)	43.8 (102) 66.7 (34) 53.8 (7)
F-3	Student and/or former student scores on a scale measuring their percentions about their ability to live and interact with other people.	ADMIN PLANNERS LEGISLATORS	17.2 (40) 11.8 (3) 0. (0)	41.6 (97) 49.0 (25) 69.2 (°)	41.2 (96) 39.2 (20) 30.8 (4)
F-4	Number and percentage of students and/or former students surveyed who have been candidates for positions in local, state, and federal government.	ADMIN PLANNERS LEGISLATORS	7.7 (18) 5.9 (3) 0. (0)	52.4 (122) 49.0 (25) 53.8 (7)	39.9 (93) 45.1 (23) 46.2 (6)
F-5	Number and percentage of students and/or former students surveyed who hold office in social, charitable, political, or civic organizations.	ADMIN PLANNERS LEGISLATORS	8.2 (19) 3.9 (2) 0. (0)	50.6 (118) 41.2 (21) 69.2 (9)	41.2 (96) 54.9 (28) 30.8 (4)
F-6	Number and percentage of students and/or former students surveyed who have participated in special social development programs (e.g., the Peace Corps, and VISTA).	ADMIN PLANNERS LEGISLATORS	8.2 (19) 4.0 (2) 0. (0)	49.6 (115) 36.0 (18) 61.5 (8)	42.2 (98) 60.0 (30) 38.5 (5)
f-7	Number and percentage of students and/or former students surveyed who have changed their political party affiliation within a certain period of time.	ADMIN PLANNERS LEGISLATORS	1.3 (3) 0. (0) 7.7 (1)	20.3 (47) 15.7 (8) 38.5 (5)	78.4 (182) 84.3 (43) 53.8 (7)
F-8	Amount of monetary contributions per student and/or former student made to political, charitable, and social organizations or special interest groups within a certain time period relative to income category.	ADMIN PLANNERS LEGISLATORS	3.9 (9) 0. (0) 0. (0)	24.5 (57) 15.7 (8) 23.1 (3)	71.7 (167) 84.3 (43) 76.9 (10)
F-9	Average amount of time devoted to political, charitable, and social organizations or special interest groups within a certain time period per student and/or former student.	ADMIN PLANNERS LEGISLATORS	4.7 (11) 0. (0) 0. (0)	33.0 (77) 23.5 (12) 53.8 (7)	62.2 (145) 76.5 (39) 46.2 (6)
F-10	Student and/or former student scores on a scale measuring their political attitudes and beliefs.	ADMIN PLANNERS LEGISLATDRS	5.2 (12) 3.9 (2) 0. (0)	31.9 (74) 21.6 (11) 46.2 (6)	62.9 (146) 74.5 (38) 53.8 (7)
	Number and percentage of students and/or former students surveyed who have used mechanisms of the political process (e.g., voted in elections, circulated petitions, attended hearings, written letters to their congressman).	ADMIN PLANNERS LEGISLATORS	3.4 (8) 0. (0) 7.7 (1)	33.5 (78) 35.3 (18) 53.8 (7)	63.1 (147) 64.7 (33) 38.5 (5)
F-12	Student and/or former student scores on a scale measuring their racial and ethnic attitudes and beliefs.	ADMIN PLANNERS LEGISLATORS	16.3 (38) 7.8 (4) 23.1 (3)	37.8 (88) 43.1 (22) 46.2 (6)	45.9 (107) 49.0 (25) 30.B (4)
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	OUTCOME MEASURE		(n)	(%) (n)	(%) (n)
F-13	Student and/or former student scores on a scale measuring their ethical	ADMIN 15.9	(37)	45.1 (105)	39.1 (91)
}	and moral attitudes and beliefs and their concern for human welfare.	PLANNERS 7.8	(4)	45.1 (23)	47.1 (24)
		LEGISLATORS 30.8	(4)	38.5 (5)	30.8 (4)
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F-14	Student and/or former student scores on a scale measuring their current and desired social and economic level.		(30)	50.9 (118)	36.2 (84)
			(8)	49.0 (25)	35.3 (18)
		LEGISLATORS 7.7	(1)	53.8 (7)	38,5 (5)
F-15	Student and/or former student scores on a scale measuring their interest	ADMIN 15.9	(37)	48.3 (112)	35.8 (83)
	in and acquaintance with the arts, great books, and other cultural arti- facts and activities.	PLANNERS 5.9	(3)	56.9 (29)	37.3 (19)
	races and decreteres.	LEGISLATORS 7.7	(1)	53.8 (7)	38.5 (5)
	Notes of students and for former students barden a newtons? Idhasay of	ADMIN 6.0	(14)	34.5 (80)	59.5 (138)
1-16	Number of students and/or former students having a personal library of well-known literary works or pieces of art as a percentage of all students		(1)	17.6 (9)	80.4 (41)
	and/or former students surveyed.		(0)	23.1 (3)	76.9 (10)
		0.	1 0/	23.1 (3)	70.3 (107
					
G-1	Number of nonmatriculating participants enrolled in instructional programs as a percentage of the total number of persons in those programs.	1	(96)	40.9 (94)	17.4 (40)
	as a percentage of the total number of persons in those programs.	PLANNERS 68.6	(35)	29.4 (15)	2.0 (1)
		LEGISLATORS 30.8	(4)	53.8 (7)	15.4 (2)
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G-2	Nonmatriculating participant scores on a scale measuring their degree	ADMIN 27.4	(63)	46.1 (106)	26.5 (61)
1	of satisfaction with their educational experience.	PLANNERS 37.3	(19)	47.1 (24)	15.7 (8)
		LEGISLATORS 18.2	(2)	72.7 (8)	9.1 (1)
				<u> </u>	
G-3	Number and percentage of nonmatriculating participants surveyed who	ADMIN 20.0	4.65	50 4 (110)	
	received a promotion and/or salary increase as a result of job-related educational experiences.	j	(46)	50.4 (116)	29.6 (68)
			(23) (4)	37.3 (19) 53.8 (7)	17.6 (9) 15.4 (2)
		1 30.0		33.0 (7)	10.4 (2)
G-4	Scores of nonmatriculating participants, who are working or have returned	r		· · · · · · · · · · · · · · · · · · ·	
4-4	to their job, on a scale measuring their satisfaction with their job per-	1	(43)	46.7 (107)	34.5 (79)
	formance as a result of job-related educational experiences.	1	(20)	35.3 (18)	25.5 (13)
		LEGISLATORS 23.1	(3)	61.5 (8)	15.4 (2)
G-5	Average amount of time per £aculty/staff member spent in selected educational activities for their personal educational growth and	ADMIN 33.5	(77)	44.3 (102)	22.2 (51)
	development while at the institution.	PLANNERS 39.2	(20)	47.1 (24)	13.7 (7)
		LEGISI ATORS 8.3	(1)	75.0 (9)	16.7 (2)
G- 6	Faculty/staff scores on a scale measuring their perceptions of their educational growth and development as a result of their experiences while	ADMIN 27.4	(63)	47.4 (109)	25.2 (58)
]	at the institution.	_	(10)	58.8 (30)	21.6 (11)
			(1)	83.3 (10)	8.3 (1)
H-1	Average amount Of time faculty/staff and students spent in selected	ADMIN 25.9	(6C)	53.9 (125)	20.3 (47)
]	community service activities (e.g., giving professional service and advice outside the institution) within a certain time period.	1	(20)	52.9 (27)	7.8 (4)
	outside the instruction, within a certain time period.		(1)	61.5 (8)	30.8 (4)
			• • • • • • • • • • • • • • • • • • • •		
H-2	Satisfact months are the same of a s				
"-"	Estimated replacement value of specific Community services received by individuals or organizations that receive the services.	i	(30;	47.6 (110)	35.5 (82)
			(11)	60.0 (30)	18.0 (9)
		LEGISLATORS 0.	(0)	61.5 (8)	38.5 (5)
ਮ-3	Ratio of total income for community services to total budget for community services.	ADMIN 30.1	(69)	40.2 (92)	29.7 (68)
		n	(16)	52.0 (26)	16.0 (8)
1	120		(2)	30.8 (4)	53.8 (7)
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H-4 Rumber of faculty/staff on lasve from the institution to local, :tate, and national governments in a policy, management or technical role, ADMIN FLANKERS 35.3 (18) 43.1 (22) 21.6 (11) 46.2 (6) 23.1 (3) 43.1 (22) 21.6 (11) 46.2 (6) 23.1 (3) 43.1 (22) 21.6 (11) 46.2 (6) 23.1 (3) 43.1 (22) 21.6 (11) 46.2 (6) 23.1 (3) 43.1 (22) 21.6 (11) 46.2 (6) 23.1 (3) 43.1 (22) 21.6 (11) 46.2 (6) 23.1 (3) 43.1 (22) 21.6 (11) 46.2 (6) 23.1 (3) 43.1 (22) 21.6 (11) 46.2 (6) 23.1 (3) 43.1 (22) 23.1 (3) 43.1 (22) 23.1 (3) 43.1 (22) 23.1 (3) 43.1 (22) 23.1 (3) 43.1 (22) 46.2 (6) 23.1 (3) 43.1 (22) 46.2 (6) 23.1 (3) 43.1 (22) 46.2 (6) 23.1 (3) 43.1 (22) 46.2 (6) 23.1 (3) 43.1 (22) 46.2 (6) 47.8 (11) 46.2 (6) 23.1 (3) 43.
Humber of faculty/staff on leave from the institution to local, state, and national governments in a policy, management or technical role, and national governments in a policy, management or technical role, and national governments in a policy, management or technical role, the first particular support program (e.g., the computer center, the library, the health services staff, etc.) as a percentage of the total number of individuals served within a certain time period. H-6 Estimated monetary value of specific community services (e.g., 'wealth services, computer services, etc.) offered relative to other comparable services offered elsewhere. H-7 Number and percentage of persons attending selected extramural, cultural, and recreational events who are not students or members of the institution's faculty/staff. I-1 Number and percentage of students who are employed in businesses, agenc'ss and organiztions in the community. I-2 Number and percentage of graduates of a particular graduating class who are employed in-state versus out-of-state. I-3 Total dollar amount of goods and services purchased by the institution from a particular sector of the community within a certain time period. ADMIN 48.5 (133) 27.9 (55) 23.5 (55) 23.6 (61) 44.2 (2) 27.9 (61) 18.9 (44) 45.9 (13) 45.9 (22) 7.8 (4) 45.9 (13) 45.9 (22) 7.8 (4) 45.9 (13) 42.9 (99) 25.5 (59) 45.9 (28) 72.7 (8) 9.1 (1) 45.1 (23) 33.3 (17) 45.9 (24) 45.1 (23) 33.3 (17) 45.9 (25) 31.4 (25) 45.9 (31) 45.9 (25) 31.4 (25) 45.9 (31) 45.9 (25) 31.4 (25) 45.9 (31) 45.9 (25) 31.4 (25) 45.9 (31) 45.9 (25) 31.0 (26) 31.4 (16)
H-5 Number of individuals not associated with the institution who were served by a particular support program (e.g., the computer center, the library, the health services staff, etc.) as a percentage of the total number of individuals served within a certain time period. H-6 Estimated monetary value of specific community services (e.g., 'ealth services, computer services, etc.) offered relative to other comparable services offered elsewhere. H-7 Number and percentage of persons attending selected extramural, cultural, and recreational events who are not students or members of the institution's faculty/staff. H-7 Number and percentage of students who are employed in businesses, agenc's and organiztions in the community. H-7 Number and percentage of organizations in the community. H-7 Number and percentage of students who are employed in businesses, agenc's and organiztions in the community. H-7 Number and percentage of organizations in the community. H-7 Number and percentage of organizations in the community. H-7 Number and percentage of students who are employed in businesses, agenc's and organizations in the community. H-7 Number and percentage of organizations in the community. H-7 Number and percentage of organizations in the community. H-7 Number and percentage of organizations in the community. H-7 Number and percentage of organizations in the community. H-7 Number and percentage of organizations in the community. H-7 Number and percentage of organizations of a particular graduating class who are employed in-state versus out-of-state. H-8 PLANNERS H-9 H
H-5 Number of individuals not associated with the institution who were served by a particular support program (e.g., the computer center, the library, the health services ctaff, etc.) as a percentage of the total number of individuals served within a certain time period.
H-5 Number of individuals not associated with the institution who were served by a particular support program (e.g., the computer center, the library, the health services staff, etc.) as a percentage of the total number of individuals served within a certain time period. H-6 Estimated monetary value of specific community services (e.g., 'ealth services, computer services, etc.) offered relative to other comparable services offered elsewhere. H-7 Number and percentage of persons attending selected extramural, cultural, and recreational events who are not students or members of the institution's faculty/staff. I-1 Number and percentage of students who are employed in businesses, agenc's and organiztions in the community. I-2 Number and percentage of graduates of a particular graduating class who are employed in-state versus out-of-state. I-3 Total dollar amount of goods and services purchased by the institution from a particular sector of the community within a certain time period. ADMIN J-6 BADHIN J-7 ADMIN J-7 ADMIN J-8 BADHIN J-8 BAD
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H-6 Estimated monetary value of specific community services (e.g., 'mealth services, computer services, etc.) offered relative to other comparable services offered elsewhere. ADMIN PLANNERS 32.0 (16) 56.0 (28) 12.0 (6) 18.2 (2) 72.7 (8) 9.1 (1) -7 H-7 humber and percentage of persons attending selected extramural, cultural, and recreational events who are not students or members of the institution's faculty/staff. ADMIN PLANNERS 21.6 (11) 45.1 (23) 33.3 (17) -7 LEGISLATORS ADMIN PLANNERS 21.6 (11) 45.1 (23) 33.3 (17) -7 LEGISLATORS ADMIN PLANNERS 21.6 (11) 45.1 (23) 33.3 (17) -7 Stime and percentage of students who are employed in businesses, agenc'as and organizations in the community. ADMIN PLANNERS 33.3 (17) 56.9 (29) 9.8 (5) -7 LEGISLATORS ADMIN PLANNERS 33.3 (17) 56.9 (29) 9.8 (5) -7 Stime and percentage of graduates of a particular graduating class who are employed in-state versus out-of-state. ADMIN PLANNERS 27.4 (64) 47.0 (110) 25.6 (60) -7 PLANNERS 27.4 (64) 47.0 (110) 25.6 (60) 47.6 (11) 45.1 (23) 47.6 (11) 45.1 (23) 47.6 (11) 45.1 (23) 47.6 (11) 45.1 (23) 47.6 (11) 45.1 (23) 47.6 (11) 45.1 (23) 47.6 (11) 45.1 (23) 47.6 (12
H-6 Estimated monetary value of specific community services (e.g., 'mealth services, computer services, etc.) offered relative to other comparable services offered elsewhere. H-7 Number and percentage of persons attending selected extramural, cultural, and recreational events who are not students or members of the institution's faculty/staff. I-1 Number and percentage of students who are employed in businesses, agenc'ss and organiztions in the community. ADMIN J-1.0 (56) J-2.0 (6) J-2.7 (8) J-1.1 (11) J-2.3 (30) J-2.0 (11) J-2.3 (30) J-2.0 (3) J-2.0 (3) J-2.0 (6) J-2
Services, computer services, etc.) offered relative to other comparable Services offered elsewhere. Planners 32.0 (16) 56.0 (28) 12.0 (6) LEGISLATORS 18.2 (2) 72.7 (8) 9.1 (1) 1.2 (2) 1.2 (2) 1.2 (3) 1.3 (4) 1.3 1.3 (4)
Services, computer services, etc.) offered relative to other comparable Services offered elsewhere. Planners 32.0 (16) 56.0 (28) 12.0 (6) LEGISLATORS 18.2 (2) 72.7 (8) 9.1 (1) 1.2 (2) 1.2 (2) 1.2 (3) 1.3 (4) 1.3 1.3 (4)
Services, computer services, etc.) offered relative to other comparable Services offered elsewhere. Planners 32.0 (16) 56.0 (28) 12.0 (6) LEGISLATORS 18.2 (2) 72.7 (8) 9.1 (1)
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LEGISLATORS 23.1 (3) 46.2 (6) 30.8 ! 4)
20.1 (0) 40.2 (0) 30.0 ; 4)
I-4 Faculty/staff and student expenditures in the community within a certain ADMIN 25.2 (59) 48.3 (113) 26.5 (62)
Admin a del dalla
1 10 (0) (0) (25.5 (12)
LEGISLATORS 15.4 (2) 61.5 (8) 23.1 (3)
I-5 Estimated dollar amount of the institution's payroll as a percentage of ADMIN 32.5 (76) 41.0 (96) 26.5 (62)
the estimated total community payroll. PLANNERS 23.5 (12) 56.9 (29) 19.6 (10)
LEGISLATORS 8.3 (1) 58.3 (7) 33.3 (4)
I-6 Amount of land removed from the community tax base as a result of the ADMIN 34.2 (80) 37.2 (87) 28.6 (67)
existence of the institution. PLANNERS 17.6 (9) 58.8 (30) 23.5 (12)
LEGISLATORS 30.8 (4) 30.8 (4) 38.5 (5)
ADMIN 36.2 (84) 40.9 (95) 22.8 (53)
1-7 Employers scores on a scale measuring their degree of satisfaction with the performance of students and/or former scudents on the job. PLANNERS 41.2 (21) 49.0 (25) 9.8 (5)
LEGISLATORS 23.1 (3) 61.5 (8) 15.4 (2)
ADMIN 23.6 (55) 41.2 (96) 35.2 (82)
1-8 Amount of private housing owned or rented by students and/or faculty/staff PLANNERS 13 7 (7) 51 0 (26) 25 2 (10)
as a percentage of the total housing available in the community. LEGISLATORS 23.1 (3) 30.8 (4) 46.2 (6)
ADMIN 76.7 (37) 40.0 (92) 43.9 (101)
I-9 Value of community business properties attributable to institution- related expenditures. PLANNERS 12.0 (6) 54.0 (27) 34.0 (17)
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	OUTCOME MEASURF		KEED (%) (n)	WOULD LIKE (%) (n)	DON'T NEED
		ADUTU			
1-10	Amount and percentage of the local credit base due to institution-related deposits in community banks.	ADMIN PLANNERS	16.8 (30) 5.9 (3)	42.2 (98)	40.9 (95) 47.1 (24)
		LEGISLATORS	7.7 (1)	53.8 (7)	38.5 (5)
				1 00.0 (//	1 33.0 (37
1-11	Extent to which the presence of the institution influences businesses locating in the community.	ADMIN	29.9 (70)	49.6 (116)	20.5 (48)
	rocating in the consumity.	PLANNERS	33.5 (17)	54.9 (28)	11.8 (6)
		LEGISLATORS	38.5 (5)	53.8 (7)	7.7 (1)
1-12	Amount and percentage of federal revenue sharing allocation attributable	ACHIN	26.1 (61)	43.6 (102)	30.3 (71)
	to the institution's presence in the community.	PLANNERS	23.5 (12)	64.7 (33)	11.8 (6)
		LEGISLATORS	30.8 (4)	53.8 (7)	15.4 (2)
1-13	Institution-related contributions as a percentage of total community		01 0 7 61	1 (4 0 (202)	1 24 2 4 20)
	fund raising (e.g., United Fund program).	ADMIN PLANHERS	21.8 (51) 7.8 (4)	44.0 (103) 51.0 (26)	34.2 (80) 41.2 (21)
		LEGISLATORS	7.7 (1)	46.2 (6)	46.2 (6)
1-14	Geographic distribution of alumni.	KIMOA	30.8 (72)	51.7 (121)	17.5 (41)
		PLANNERS	41.2 (21)	47.1 (24)	11.8 (6)
		LEGISLATORS	15.4 (2)	53.8 (7)	30.8 (4)
1-15	Community attitudes toward the institution (e.g., attitudes toward the institution's contribution to community social/cultura! activities and	ADMIN		1	
	the institution's impact on the amount of crime in the community).	PLANNERS	51.5 (320) 47.1 (24)	37.8 (88) 43.1 (22)	10.7 (25) 9.8 (5)
		LEGISLATORS	30.8 (4)	46.2 (6)	23.1 (3)
1-16	Number of persons from the community employed by the institution.	ADMIN	48.3 (113)	29.5 (69)	22.2 (52)
1		PLANNERS LEGISLATORS	31.4 (16) 23.1 (3)	51.0 (26) 61.5 (8)	17.6 (9)
		LEGISLATORS	20.7 (3/	01.0 (07	13.4 (27
J-1	Distribution of publications by type of publication (e.g., books, monographs, etc.) per student, former student, and/or faculty member within	ACHIN	15.0 (35)	45.1 (105)	39.9 (23)
	a certain time period.	PLANNERS	15.7 (8)	37.3 (19)	47.1 (24)
		LEGISLATORS	7.7 (1)	38.5 (5)	53.8 (7)
J-2	Number of times a given publication is cited in bibliographies of other	ADMIN		T 4 / 2	1 44 4 (47)
	au hors within a certain time period.	ADMIN PLANNERS	6.4 (15) 3.9 (2)	27.4 (64) 27.5 (14)	66.2 (155) 68.6 (35)
		LEGISLATORS	7.7 (1)	30.8 (4)	61.5 (8)
					
J-3	Number of articles published per faculty/staff member in prestigious journals within a certain time period.	ACM1H	22.6 (53)	44.9 (105)	32.5 (76)
		PLANNERS LEGISLATORS	19.6 (10)	37.3 (19)	43.1 (22)
		LEGISLATORS	7.7 (1)	23.1 (3)	69.2 (9)
J-4	Number of papers presented at professional meeting per student, furmer student, and/or faculty/staff member within a certain time period.	ADMIN	18.8 (44)	50.9 (119)	30.3 (71)
	and the periods	PLANNERS	13.7 (7)	43.1 (22)	43.1 (22)
		LEGISLAYORS	0. (0)	38.5 (5)	61.5 (8)
	Number of susual and addations usualized by students. Sames students	Acutu	1000		1 04 4 4 5 7
J-5	Number of awards and citations received by students, former students, fand/or faculty members for their research and art products within a	ADMIN PLANNERS	19.7 (46)	56.0 (131) 41.2 (21)	24.4 (57) 43.1 (22)
	certain time period.	LEGISLATORS	7.7 (1)	46.2 (6)	46.2 (6)
				·	
J-6	Average amount of faculty time spent in selected research and art producing activities.	ADMIN	29.0 (67)	42.4 (98)	28.6 (66)
~*		PLANNERS	43.1 (22)	45.1 (23) 53.8 (7)	11.8 (6)
ERIC	1 53 -140	LEGISLATORS	23.1 (3)	33.0 (/)	23.1 (3)
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		WERN LOUIS TO THE MANUEL OF THE PARTY OF THE
	OUTCOME MEASURE	NEED WOULD LIKE DON'T NEED (%) (n) (%) (n) (%) (n)
J-7	Number of succession founded down and the	
0-7	Number of proposals funded for certain purposes (e.g., research versus training) by level of funding as a percentage of all proposals submitted.	ni autiene
	to a series of a personage of all proposals summitted.	11.0 (10)
		LEGISLATORS 38.5 (5) 38.5 (5) 23.1 (3)
J-8	Total dallan amount of odden and/on mounts and to	AGUAN FOR MARKET TO A STATE OF THE STATE OF
0-0	Total dollar amount of gifts and/or grants received for certain purposes (e.g., research versus training) as a percentage of total budget within	ADMIN 53.8 (126) 26.9 (63) 19.2 (45)
	a certain time period.	PLANNERS 51.0 (26) 33.3 (17) 15.7 (8)
		LEGISLATORS 33.3 (4) 58.3 (7) 8.3 (1)
J-9	Number and percentage of faculty/staff surveyed who have created films,	
U -J	taped lectures, etc. within a certain time period.	ADMIN 23.: (55) 45.7 (107) 30.8 (72)
	·	PLANNERS 15.7 (8) 49.0 (25) 35.3 (18)
		LEGISLATORS 0. (0) 38.5 (5) 61.5 (8)
J-10	Number of patents and/or copyrights received per student, former student,	ADMIN 14.5 (34) 42.7 (100) 42.7 (100)
	and/or faculty member within a certain time period.	PLANNER: 11.8 (6) 49.0 (25) 39.2 (20)
	·	LEGISLATORS 0. (0) 61.5 (8) 38.5 (5)
		CEGLOCATIONS 0. 1 07 01.0 (0) 30.5 (5)
J-11	Number of books or monographs written by faculty/staff that are	ANUTH 26 1 / 611 45 2 / 1051 40 2 / 511
	published commercially within a certain time period.	ADMIN 26.1 (61) 45.3 (106) 28.6 (67)
		PLANNERS 19.6 (10) 41.2 (21) 39.2 (20)
		LEGISLATORS 15.4 (2) 46.2 (6) 38.5 (5)
J-12	Judgements of peer groups and/or potential beneficiary groups regarding	
	the worth/impact of research project results.	ADMIN 23.9 56) 41.5 (97) 34.6 (81)
		PLANNERS 19.6 (10) 54.9 (28) 25.5 (13)
		LEGISLATORS 23.7 (3) 46.2 (6) 30.8 (4)
J-13	Number and percentage of graduates engaged in research activities.	ADMIN 13.2 (31) 50.4 (118) 36.3 (85)
		PLANNERS 15.7 (8) 49.0 (25) 35.3 (18)
		LEGISLATORS 15.4 (2) 69.2 (9) 15.4 (2)
•		10.7 (2)
J-14	Humber and percentage of faculty /staff and students invited to	ADMIN 20.9 (49) 48.7 (114) 30.3 (71)
	participate in professional meetings and conferences.	PLANNERS 9.8 (5) 29.4 (15) 60.3 (31)
		LEGISLATORS 0. (0) 53.8 (7) 46.2 (6)
J-15	Number and percentage of graduates who have produced or exhibited certain art forms (e.g., paintings, sculptures, plays, etc.).	ADMIN 15 0 (25) FOR (200)
	are torms (e.g., parintings, scurptures, plays, etc.).	PLANNERS 15.0 (35) 52.1 (122) 32.9 (77)
		LEGISLATORS 3.9 (2) 43.1 (22) 52.9 (27)
		0. (0) 53.8 (7) 46.2 (6)
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TABLE C.6

The Percentage and Number of Responses to the "Access" Question, by College Administrators, State-Level Planners, and State Legislators*



^{*}It should be noted in reviewing this table that if a respondent did not record a choice for any measure in the questionnaire, the no response was not considered in calculating the distribution of responses across the question categories in the table.

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	OUTCOME MEASURE		HAVE ACCESS	DON'T MAVE	NOT SURE
A-1	Student scores on tests that indicate development in their <u>breadth</u> of knowledge about facts and principles across several broad fields of study (e.g., the humanities, the physical sciences, etc.).	ADMIN PLANNERS LEGIS	32.5 (76) 18.0 (9) 15.4 (2)	53.4 (125) 74.0 (37) 53.8 (7)	14.1 (33) 8.0 (4) 30.8 (4)
A-2	Student scores on tests that indicate development in their depth of know- ledge concerning facts and principles in the particular fields in which a student elects to study.	ADMIN PLANNERS LEGIS	35.3 (82) 18.0 (9) 7.7 (1)	50.4 (117) 74.0 (37) 53.8 (7)	14.2 (33) 8.0 (4) 38.5 (5)
A-3	Number of students passing certification or licensing exams (e.g., bar exam, CPA, LPN) on the first atlempt as a percentage of all students taking the exam.	ADMIN PLANNERS LEGIS	36.7 (84) 50.0 (25) 46.2 (6)	44.1 (101) 36.0 (18) 15.4 (2)	19.2 (44) 14.0 (7) 38.5 (5)
A-4	Student scores on tests that indicate their ability to apply general or specialized knowledge to a problem and to implement a solution.	ADMIN PLANNERS LEGIS	13.1 (30) 6.0 (3) 16.7 (2)	67.7 (155) 82.0 (41) 41.7 (5)	19.2 (44) 12.0 (6) 41.7 (5)
A-5	Student scores on tests that indicate thier ability to <u>analyze</u> problems (e.g., the recognition of biased points in an article or spaech).	ADMIN PLANNERS LEGIS	7.9 (18) 10.0 (5) 0. (0)	71.5 (163) 84.0 (42) 46.2 (6)	20.6 (47) 6.0 (3) 53.8 (7)
A-6	Number of patents awarded and copyrights obtained by students and/or former students within a certain time period.	ADMIN PLANNERS LEGIS	1.8 (4) 4.0 (2) 7.7 (1)	87.6 (197) 82.0 (41) 61.5 (8)	10.7 (24) 14.0 (7) 30.8 (4)
A-7	Student scores on tests that indicate their ability to read, write, speak, and/or listen.	ADMIN PLANNERS LEGIS	43.7 (101) 28.0 (14) 7.7 (1)	39.8 (92) 60.0 (30) 38.5 (5)	16.5 (38) 12.0 (6) 53.8 (7)
A-8	Number and percentage of students surveyed who have participated in activities that enhance their communication skills (e.g., debate, encounter groups, etc.).	AOMIN PLANNERS LEGIS	22.7 (52) 6.0 (3) 23.1 (3)	57.2 (131) 84.0 (42) 23.1 (3)	20.1 (46) 10.0 (5) 53.8 (7)
A-9	Student scores on tests that indicate their ability to perform tasks requiring physical dexterity and skill.	ADMIN PLANNERS LEGIS	11.1 (25) 14.0 (7) 15.4 (2)	72.0 (162) 80.0 (40) 30.8 (4)	16.9 (38) 6.0 (3) 53.8 (7)
A-10	Number and percentage of students surveyed who have participated in activities that enhance thier athletic skills (e.g., intramural and varsity sports).	ADMIN PLANNERS LEGIS	38.3 (87) 18.0 (9) 38.5 (5)	48.5 (110) 72.0 (36) 23.1 (3)	13.2 (30) 10.0 (5) 28.5 (5)
8-1	Number and percentage of students surveyed identifying a certain degree, diploma, or certificate as the highest degree planned.	ADMIN PLANNERS LEGIS	49.8 (114) 36.0 (18) 15.4 (2)	30.6 (70) 52.0 (26) 38.5 (5)	19.7 (45) 12.0 (6) 46.2 (6)
	Symbol and percentage of students surveyed who have changed majors (lower divison, upper division, and/or graduate) within a certain time period.	ADMIN PLANNERS LEGIS	48.5 (111) 25.5 (13) 23.1 (3)	26.7 (84) 66.7 (34) 23.1 (3)	14.8 (34) 7.8 (4) 53.8 (7)



	OUTCOME MEASURE	HAVE ACCESS DON'T HAVE NOT SURE (%) (n) (%) ACCESS (n) (%) (n)
B-3	Number and percentage of students surveyed who are taking noncredit, independent study, or special courses.	ADMIN 60.5 (138) 27.2 (62) 12.3 (28) PLANNERS 51.0 (26) 41.2 (21) 7.8 (4) LEGIS 50.0 (6) 25.0 (3) 25.0 (3)
B-4	Number of awards and citations received per student and/or former student for their academic performance.	ADMIP 31.1 (71) 51.3 (117) 17.5 (40) PLANNERS 15.7 (8) 68.6 (35) 15.7 (8) LEGIS 30.8 (4) 30.8 (4) 38.5 (5)
B-5	Number of students receiving a degree, diploma, and certificate within a certain time period.	ADMIN 75.9 (173) 17.5 (40) 6.6 (15) PLANNERS 70.6 (36) 23.5 (12) 5.9 (3) LEGIS 72.7 (8) 9.1 (1) 18.2 (2)
B-6	Average amount of time it takes a student to earn a degree, diploma, or certificate.	AOMIN 52.2 (119) 32.0 (73) 15.8 (36) PLANNERS 38.0 (19) 50.0 (25) 12.0 (6) LEGIS 50.0 (6) 25.0 (3) 25.0 (3)
8-7	Number of students graduating from the institution after a certain period of time as a percentage of their entering class.	ADMIN 57.4 (132) 24.3 (56) 18.3 (42) PLANNERS 40.0 (20) 48.0 (24) 12.0 (6) LEGIS 61.5 (8) 15.4 (2) 23.1 (3)
8-8	Number and percentage of graduates for the year who transferred from another school.	ADMIN 67.5 (156) 18.2 (42) 14.3 (33) PLANNERS 47.1 (24) 37.3 (19) 15.7 (8) LEGIS 38.5 (5) 15.4 (2) 46.2 (6)
B-9	Number and percentage of students leaving the institution prior to receiving a degree, diploma or certificate during a particular academic term or year.	ADMIN 74.0 (171) 13.4 (31) 12.6 (29) PLANNERS 43.1 (22) 43.1 (22) 13.7 (7) LEGIS 61.5 (8) 15.4 (2) 23.1 (3)
B-10	Number of graduates accepted for study in another educational program that will result in a degree, diploma or certificate as a percentage of those applying.	ADMIN 26.4 (60) 49.3 (112) 24.2 (55) PLANNERS 24.5 (12) 61.2 (30) 14.3 (7) LEGIS 38.5 (5) 15.4 (2) 46.2 (6)
B-11	Number of graduates working toward or receiving another educational degree, diploma, or certificate after a certain time period following graduation as a percentage of their graduating class.	ADMIN 17.2 (39) 64.3 (146) 18.5 (42) PLANNERS 14.0 (7) 74.0 (37) 12.0 (6) LEGIS 30.8 (4) 23.1 (3) 46.2 (6)
6-12	Student and/or former student scores on a scale measuring their perceptions of their educational achievement.	ADMIN 7.0 (16) 74.7 (171) 18.3 (42) PLANNERS 8.0 (4) 78.0 (39) 14.0 (7) LEGIS 30.8 (4) 38.5 (5) 30.8 (4)
B-13	Student scores on a scale measuring their perceptions about the amount of learning that took place in certain activities sponsored by the institution outside of formal instruction.	ADMIN 3.5 (&) 79.4 (181) 17.1 (39) PLANNERS 4.0 (2) 88.0 (44) 8.0 (4) LEGIS 16.7 (2) 66.7 (8) 16.7 (2)
8-14	Student scores on a scale measuring their interest in continued self-initiated study and inquiry.	ADMIN 3.5 (8) 82.5 (188) 14.0 (32) PLANNERS 4.0 (2) 86.0 (43) 10.0 (5) LEGIS 15.4 (2) 61.5 (8) 23.1 (3)
	Number and percentage of former students surveyed who indicate that they would send their children to the same school.	ADMIN 3.9 (9) 84.0 (194) 12.1 (28) PLANNERS 2.0 (1) 90.0 (45) 8.0 (4) LEGIS 7.7 (1) 61.5 (8) 30.8 (4)

	OUTCOME MEASURE		HAVE ACCESS (%) (n)	OON'T HAVE (%) ACCESS(n)	NOT SURE
	Average amount of alumni gifts within a certain time period after graduation.	ADMIN PLANNERS LEGIS	39.0 (90) 10.0 (5) 16.7 (2)	46.3 (107) 74.0 (37) 41.7 (5)	14.7 (34) 16.0 (8) 41.7 (5)
C-3	Student and/or former student scores on a scale measuring their degree of satisfaction with their overall educational experience.	ADMIN PLANNERS LEGIS	9.1 (21) 10.2 (5) 7.7 (1)	75.3 (174) 81.6 (40) 53.8 (7)	15.6 (36) 8.2 (4) 38.5 (5)
-	Student scores on a scale measuring their degree of satisfaction with their knowledge and skills development (e.g., changes in their breadth and depth of knowledge, changes in their communication skills).	ADMIN PLANNERS LEGIS	5.2 (12) 6.0 (3) 7.7 (1)	79.2 (183) 82.0 (41) 61.5 (8)	15.6 (36) 12.0 (6) 30.8 (4)
C-5	Student scores on a scale measuring their degree of satisfaction with their personal development (e.g., changes in their ability to cope with new situations, changes in their self-concept).	ADMIN PLANNERS LEGIS	4.8 (11) 2.0 (1) 0. (0)	80.9 (186) 85.7 (42) 61.5 (8)	14.3 (33) 12.2 (6) 38.5 (5)
C-6	Student scores on a scale measuring their degree of satisfaction with their social and cultural development (e.g., changes in their ability to get along with others, changes in their appreciation of cultural activities and artifacts).	ADMIN PLANNERS LEGIS	3.5 (8) 2.0 (1) 0. (0)	81.8 (189) 86.0 (43) 58.3 (7)	14.7 (34) 12.0 (6) 41.7 (5)
C-7	Student scores on a scale measuring their degree of satisfaction with their progress in achieving their educational career goals.	ADMIN PLANNERS LEGIS	7.4 (17) 8.0 (4) 0. (0)	80.1 (185) 86.0 (43) 69.2 (9)	12.6 (29) 6.0 (3) 30.8 (4)
C-8	Student scores on a scale measuring their degree of satisfaction with their progress in achieving their occupational career goals.	ADMIN PLANNERS LEGIS	5.6 (13) 12.0 (6) 0. (0)	79.7 (184) 82.0 (41) 61.5 (8)	14.7 (34) 6.0 (3) 38.5 (5)
D-1	Number and percentage of former students (graduates and nongraduates) surveyed who were employed within a certain time period after leaving the institution.	ADMIN PLANNERS LEGIS	34.5 (79) 28.0 (14) 32.1 (3)	48.5 (111) 60.0 (30) 23.1 (3)	17.0 (39) 12.0 (6) 53.8 (7)
0-2	Number and percentage of former students (graduates and nongraduates) surveyed who received the job of their first choice.	ADMIN PLANNERS LEGIS	15.7 (36) 19.6 (10) 7.7 (1)	67.4 (155) 72.5 (30) 61.5 (8)	17.0 (39) 7.8 (4) 30.8 (4)
0-3	Average first salary of former students.	ADMIN PLANNERS LEGIS	26.2 (60) 24.0 (12) 15.4 (2)	58.1 (133) 68.0 (34) 38.5 (5)	15.7 (36) 8.0 (4) 46.2 (6)
D-4	Distribution of former students (graduates and nungraduates) across income categories within a certain time period after leaving the institution.	ADMIN PLANNERS LEGIS	9.6 (22) 20.0 (10) 7.7 (1)	72.9 (167) 68.0 (34) 53.8 (7)	17.5 (40) 12.0 (6) 38.5 (5)
0-5	Former students (graduates and nongraduates) scores on a scale measuring their degree of satisfaction with their job performance.	ADMIN PLANNERS LEGIS	4.4 (10) 6.0 (3) 0. (0)	81.1 (185) 80.0 (40) 58.3 (7)	14.5 (33) 14.0 (7) 41.7 (5)
0-6	Number of professional occupation awards and citations received per former student surveyed.	ADMIN PLANNERS LEGIS	3.1 (7) 4.0 (2) 8.3 (1)	83.6 (189) 88.0 (44) 58.3 (7)	13.3 (30) 8.0 (4) 33.3 (4)

	OUTCOME MEASURE		HAVE ACCESS	DON'T HAVE (%) ACCESS(n)	NOT SURE
0-7	Number and percentage of former students surveyed who are in management	ADMIN	5.3 (12)	80.3 (183)	14.5 (33)
	positions within a certain time period after leaving the institution.	PLANNERS	4.1 (2)	83.7 (41)	12.2 (6)
		LEGIS	8.3 (1)	50.0 (6)	41.7 (5)
D-8	Humbon of upluntanu/dayslustanus absorbe de suplus de su	A MARY AL	3.1 (7)	84.4 (190)	20.4.4.00
0-0	Number of voluntary/involuntary changes in employment within a given time period per former student surveyed.	ADMIN PLANNERS	0. (0)	92.0 (46)	12.4 (28) 8.0 (4)
		LEGIS	8.3 (1)	50.0 (6)	41.7 (5)
		LEGIS		1 20.0 (0) 1	41.7 (3)
D-9	Number of voluntary/involuntary changes in <u>career field</u> within a given	ADMIN	3.1 (7)	84.5 (191)	12.4 (28)
	time period per former student surveyed.	PLANNERS	0. (0)	90.0 (45)	10.0 (5)
		LEGIS	15.4 (2)	53.8 (7)	30.8 (4)
D-10	Average first salary expectations of students.	ADMI N	11.5 (26)	74.8 (169)	13.7 (31)
'	The age 11136 Salary expectations of Statemes.	PLANNERS	3.9 (2)	84.3 (42)	11.8 (6)
		LEGIS	8.3 (1)	58.3 (7)	33.3 (4)
					
D-11	Number and percentage of students surveyed who are aspiring to a particular type of occupational career.	ADMIN	26.5 (61)	56.5 (130)	17.0 (39)
	a same a	PLANNERS	20.0 (10)	72.0 (36)	8.0 (4)
		LEGIS	15.4 (2)	46.2 (6)	38.5 (5)
D-12	Number and percentage of students and/or former students surveyed who are	ADMIN	11.1 (25)	72.1 (163)	25 9 / 201
	seeking certain levels of employment.	PLANNERS	7.8 (4)	76.5 (39)	16.8 (38) 15.7 (8)
		LEGIS	16.7 (2)	50.0 (6)	33.3 (4)
D-13	Number and percentage of former students (graduates and nongraduates) surveyed accepting employment in their major field of study.	ADMIN	21.6 (49)	61.2 (139)	17.2 (39)
	solveyed decepting employment in their megor field of starty.	PLANNERS LEGIS	21.6 (11) 15.4 (2)	62.7 (32) 38.5 (5)	15.7 (8) 46.2 (6)
		LLG13	73.4 (2)	1	40.2 1 61 1
E-1	Number of students and/or former students reporting certain mental	ADMIN	11.6 (26)	74.1 (166)	14.3 (32)
	and physical filmesses as a percentage of all the students and/or former students surveyed.	PLANNERS	4.0 (2)	90.0 (45)	6.0 (3)
	students surveyed.	LEGIS	15.4 (2)	46.2 (6)	38.5 (5)
E-2	Number and possentage of students supposed the barransate to the	•		, , .	**
	Number and percentage of students surveyed who have participated in special mental health counseling programs within a certain period of	ADMIN	15.0 (34)	73.9 (167)	11.1 (25)
	time.	PLANNERS LEGIS	4.0 (2) 25.0 (3)	90.0 (45)	6.0 (3)
				1 41.7 (3)	33.3 (4/)
E-3	Number and percentage of students and/or former students surveyed who	ADMIN	5.8 (13)	80.1 (181)	14.2 (32)
	belong to or hold office in religious organizations.	PLANNERS	2.0 (1)	90.0 (45)	8.0 (4)
		LEGIS	18.2 (2)	54.5 (6)	27.3 (3)
ξ-4	Student and/or former student scores on a scale measuring their religious	<u> </u>	30/4	00 0 (202)	
	and spiritual attitudes and beliefs.	ADMIN PLANNERS	1.8 (4) 0. (0)	85.3 (191) 92.0 (46)	12.9 (29)
		LEGIS	8.3 (1)	58.3 (7)	8.0 (4) 33.3 (4)
		(1	30.0 (7/
E-5	Number and percentage of students and/or former students surveyed who	ADMIN	2.2 (5)	88.8 (199)	8.9 (20)
	regularly attend religious services.	PLANNERS	2.0 (1)	90.0 (45)	8.0 (4)
		LEGIS	16.7 (2)	58.3 (7)	25.0 (3)
		r		,	
E-6	Student and/or former student scores on a scale measuring their attitudes and beliefs toward new or different ideas and things.	ADMIN	2.2 (5)	85.9 (195)	11.9 (27)
	140	PLANNERS LEGIS	0. (0) 8.3 (1)	92.0 (46) 50.0 (6)	8.0 (4) 41.7 (5)
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	OUTCOME MEASURE		HAVE ACCESS	DON'T HAVE	MOT SURE
E-7	Student and/or former student scores on a scale measuring their per- ceptions about thier self-image.	ADMIN PLANNERS LEGIS	4.9 (11) 0. (0) 16.7 (2)	82.6 (185) 92.0 (46) 50.0 (6)	12.5 (28) 8.0 (4) 33.7 (4)
F-1	Number and percentage of students and/or former students surveyed who hold membership in social, charitable, political, or civic organizations.	ADMIN Planners Legis	4.0 (9) 0. (0) 7.7 (1)	86.7 (195) 92.0 (46) 61.5 (8)	9.3 (21) 8.0 (4) 30.8 (4)
F-2	Number of awards and citations earned per student and/or former student for social contributions.	ADMIN PLANNERS LEGIS	4.0 (9) 0. (0) 7.7 (1)	87.0 (194) 92.0 (46) 53.8 (7)	9.0 (20) 8.0 (4) 38.5 (5)
F-3	Student and/or former student scores on a scale measuring their perceptions about their ability to live and interact with other people.	ADMIN PLANNERS LEGIS	2.2 (5) 0. (0) 7.7 (1)	87.2 (198) 94.0 (47) 61.5 (8)	10.6 (24) 6.0 (3) 30.8 (4)
F-4	Number and percentage of students and/or former students surveyed who have been candidates for positions in local, state, and federal government.	ADMIN PLANNERS LEGIS	2.6 (6) 0. (0) 7.7 (1)	86.8 (197) 92.0 (46) 69.2 (9)	10.6 (24) 8.0 (4) 23.1 (3)
F+5	Number and percentage of students and/or former students surveyed who hold office in social, charitable, political, or civic organizations.	ADMIN Planners Legis	2.7 (6) 0. (0) 7.7 (1)	86.7 (196) 92.0 (46) 61.5 (8)	10.6 (24) 8.0 (4) 30.8 (4)
F-6	Number and percentage of students and/or former students surveyed who have participated in special social development programs (e.g., the Peace Corps, and VISTA).	ADMIN Planners Legis	6.2 (14) 2.0 (1) 7.7 (1)	81.9 (185) 89.8 (44) 46.2 (6)	11.9 (27) 8.2 (4) 46.2 (6)
F-7	Number and percentage of students and/or former students surveyed who have changed their political party affiliation within a certain period of time.	ADMIN PLANNERS LEGIS	1.3 (3) 0. (0) 7.7 (1)	90.6 (203) 94.0 (47) 53.8 (7)	8.0 (18) 6.0 (3) 38.5 (5)
F-8	Amount of monetary contributions per student and/or former student made to political, charitable, and social organizations or special interest groups within a certain time period relative to income category.	ADMIN PLANNERS LEGIS	.9 (2) 0. (0) 7.7 (1)	91.5 (205) 94.0 (47) 61.5 (8)	7.6 (17) 6.0 (3) 30.8 (4)
F-9	Average amount of time devoted to political, charitable, and social organizations or special interest groups within a certain time period per student and/or former student.	ADMIN PLANNERS LEGIS	1.3 (3) 0. (0) 0. (0)	90.7 (204) 94.0 (47) 69.2 (9)	8.0 (18) 6.0 (3) 30.8 (4)
F-10	Student and/or former student scores on a scale measuring their political attitudes and beliefs.	ADMIN PLANNERS LEGIS	1.8 (4) 0. (0) 0. (0)	89.7 (201) 94.0 (47) 61.5 (8)	8.5 (19) 6.0 (3) 38.5 (5)
F-11	Number and percentage of students and/or former students surveyed who have used mechanisms of the political process (e.g., voted in elections, circulated petitions, attended hearings, written letters to their congressman).	ADMIN PLANNERS LEGIS	1.3 (3) 0. (0) 7.7 (1)	92.0 (208) 94.0 (47) 69.2 (9)	6.6 (15) 6.0 (3) 23.1 (3)
F-12	Student and/or former student scores on a scale measuring their racial and ethnic attitudes and beliefs.	ADMIN PLANNERS LEGIS	1.8 (4) 0. (0) 0. (0)	89.4 (202) 94.0 (47) 53.8 (7)	8.8 (20) 6.0 (3) 46.2 (6)
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	OUTCOME MEASURE	HAVE ACCESS DON'T HAVE NOT SURE (%) (n) (%)ACCESS(n) (%) (n)
F-13	Student and/or former student scores on a scale measuring their ethical and moral attitudes and beliefs and their concern for human welfare.	ADMIN PLANNERS 0. (0) 94.0 (47) 6.0 (3) 1.8 (1) 95.8 (7) 98.5 (5)
F-14	Student and/or former student scores on a scale measuring their current and desired social and economic level.	ADMIN 4.0 (9) 87.2 (197) 8.8 (20) PLANNERS 0. (0) 90.0 (45) 10.0 (5) LEGIS 15.4 (2) 53.8 (7) 30.8 (4)
F-15	Student and/or former student scores on a scale measuring their interest in and acquaintance with the arts, great books, and other cultural artifacts and activities.	ADMIN 3.1 (7) 88.6 (202) 8.3 (20) PLANNERS 0. (0) 90.0 (45) 10.0 (5) LEGIS 0. (0) 58.3 (7) 41.7 (5)
F-16	Number of students and/or former students having a personal library of well-known literary works or pieces of art as a percentage of all students and/or former students surveyed.	ADMIN 1.8 (4) 91.5 (205) 6.7 (15) PLANNERS 0. (0) 94.0 (47) 6.0 (3) LEGIS 16.7 (2) 58.3 (7) 25.0 (3)
G-1	Number of nonmatriculating participants enrolled in instructional programs as a percentage of the total number of persons in those programs.	ADMIN 54.8 (125) 32.0 (73) 13.2 (30) PLANNERS 35.3 (18) 47.1 (24) 17.6 (9) LEGIS 46.2 (6) 30.8 (4) 23.1 (3)
G-2	Normatriculating participant scores on a scale measuring their degree of satisfaction with their educational experience.	ADMIN 6.2 (14) 81.5 (185) 12.3 (28) PLANNERS 2.0 (1) 88.0 (44) 10.0 (5) LEGIS 18.2 (2) 45.5 (5) 36.4 (4)
G-3	Number and percentage of nonmatriculating participants surveyed who received a promotion and/or salary increase as a result of job-related educational experiences.	ADMIN 1.8 (4) £7.2 (198) 11.0 (25) PLANNERS 0. (0) :16.3 (44) 13.7 (7) LEGIS 8.3 (1) 50.0 (6) 41.7 (5)
G-4	Scores of nonmatriculating participants, who are working or have returned to their job, on a scale measuring their satisfaction with their job performance as a result of job-related educational experiences.	ADMIN .9 (2) 89.0 (202) 10.1 (23) PLANNERS 2.0 (1) 90.0 (45) 8.0 (4) LEGIS 8.3 (1) 50.0 (6) 41.7 (5)
G-5	Average amount of time per faculty/staff member spent in selected educational activities for their personal educational growth and development while at the institution.	ADMIN 14.1 (32) 73.6 (167) 12.3 (28) PLANNERS 15.7 (8) 74.5 (38) 9.8 (5) LEGIS 0. (0) 45.5 (5) 54.5 (6)
G-6	Faculty/staff scores on a scale measuring their perceptions of their educational growth and development as a result of their experiences while at the institution.	ADMIN 4.8 (11) 83.3 (190) 11.8 (27) PLANNERS 4.0 (2) 88.0 (44) 8.0 (4) LEGIS 9.1 (1) 45.5 (5) 45.5 (5)
H-1	Average amount of time faculty/staff and students spent in selected community service activities (e.g., giving professional service and advice outside the institution) within a certain time period.	ADMIN 12.8 (29) 71.8 (163) 15.4 (35) PLANNERS 13.7 (7) 74.5 (38) 11.8 (6) LEGIS 0. (0) 38.5 (5) 61.5 (8)
H-2	Estimated replacement value of specific community services received by individuals or organizations that receive the services.	ADMIN 2.7 (6) 85.8 (194) 11.5 (26) PLANNERS 2.0 (1) 89.8 (44) 8.2 (4) LEGIS 7.7 (1) 53.8 (7) 38.5 (3)
H-3	Ratio of total income for community services to total budget for community services.	ADMIN 24.6 (55) 64.7 (145) 10.7 (24) PLANNERS 24.0 (12) 70.0 (35) 6.0 (3) LEGIS 7.7 (1) 53.8 (7) 38.5 (5)

	OUTCOME MEASURE BEST COPY AVAILABLE		HAVE ACCESS	DON'T HAVE (%) ACCESS (n)	NOT SURE
H-4	Number of faculty/staff on leave from the institution to local, state,	ADMIN	65.5 (150)	28.8 (66)	5.7 (13)
	and national governments in a policy, management or technical role.	PLANNERS	33.3 (17)	58.8 (30)	7.8 (4)
		LEGIS	15.4 (2)	40.2 (6)	38.5 (5)
		ADMIN	29.3 (67)	56.8 (130)	14.0 (32)
H-5	Number of individuals not associated with the institution who were served by a particular support program (e.g., the computer center, the library,	PLANNERS	9.8 (5)	74.5 (38)	15.7 (8)
1	the health services staff, etc.) as a percentage of the total number of	LEGIS	15.4 (2)	46.2 (6)	38.5 (5)
	individuals served within a certain time period.		·····		
H-6	Estimated monetary value of specific community services (e.g., health	ADMIN	16.4 (37)	73.5 (166)	10.2 (23)
11-0	services, computer services, etc.) offered relative to other comparable	PLANNERS	12.0 (6)	78.0 (39)	10.0 (5)
	services offered elsewhere.	LEGIS	18.2 (2)	45.5 (5)	36.4 (4)
		ADMIN	16.7 (38)	72.2 (164)	11.0 (25)
H-7	Number and percentage of persons attending selected extramural, cultural, and recreational events who are not students or members of the institution's		4.0 (2)	90.0 (45)	6.0 (3)
	faculty/staff.	LEGIS	8.3 (1)	41.7 (5)	50.0 (6)
I-1	Number and percentage of students who are employed in businesses, agencies	ADMIN	17.7 (41)	62.9 (146)	19.4 (45)
ļ	and organizations in the community.	PLANNERS	12.0 (6)	74.0 (37)	14.0 (7)
		LEGIS	23.1 (3)	38.5 (5)	38.5 (5)
	Number and percentage of graduates of a particular graduating class	ADMIN	21.6 (50)	63.2 (146)	15.2 (35)
I-2	who are employed in-state versus out-of-state.	PLANNERS	15.7 (8)	78.4 (40)	5.9 (3)
		LEGIS	15.4 (2)	38.5 (5)	46.2 (6)
			20.0 (70)	56.9 (132)	10.0 (20)
I-3	Total dollar amount of goods and services purchased by the institution from a particular sector of the community within a certain time period.	ADMIN PLANNERS	30.2 (70) 14.0 (7)	78.0 (39)	12.9 (30) 8.0 (4)
	The second second of the community with a contest of the particles	LEGIS	30.8 (4)	38.5 (5)	30.8 (4)
1-4	Faculty/staff and student expenditures in the community within a certain	ADMIN	10.3 (24)	78.5 (183)	11.2 (26)
	time period.	PLANNERS	8.0 (4)	85.0 (43)	6.0 (3)
		LEGIS (23.1 (3)	38.5 (5)	38.5 (5)
I-5	Estimated dollar amount of the institution's payroll as a percentage of	ADMIN [37.1 (86)	53.0 (123)	9.9 (23)
15	the estimated total community payroll.	PLANNERS	20.0 (10)	72.0 (36)	8.0 (4)
		LEGIS [33.3 (4)	33.3 (4)	33.3 (4)
	to the second se	 		1	
1-6	Amount of land removed from the community tax base as a result of the existence of the institution.	ADMIN PLANNERS	58.6 (136) 26.0 (13)	35.8 (83) 62.0 (31)	5.6 (13) 12.0 (6)
		LEGIS	38.5 (5)	23.1 (3)	38.5 (5)
				1	
I-7	Employers scores on a scale measuring their degree of satisfaction with	ADMIN	10.5 (24)	76.8 (175)	12.7 (29)
1	the performance of students and/or former students on the job.	PLANNERS	6.0 (3)	82.0 (41)	12.0 (6)
		LEGIS (15.4 (2)	46.2 (6)	38.5 (3)
		ADMIN (12.7 (29)	76.8 (175)	10.5 (24)
1-8	Amount of private housing owned or rented by students and/or faculty/staff as a percentage of the total housing available in the community.	PLANNERS	6.0 (3)	84.0 (42)	10.0 (5)
	tes a betreatitate of the coret measing are hard in the seminants.	LEGIS	23.1 (3)	30.8 (4)	46.2 (6)
				,	
1-9	Value of community business properties attributable to institution-	ADMIN	6.6 (15)	81.5 (185)	11.9 (27)
1	related expenditures.	PLANNERS LEGIS	0. (0) 23.1 (3)	92.0 (46) 38.5 (5)	8.0 (4) 38.5 (5)
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	OUTCOME MEASURE		HAVE ACCESS (%) (n)	DON'T HAVE	NOT SURE (%) (n)
1-10	Amount and percentage of the local credit base due to institution-related deposits in community banks.	MIMOA	11.4 (26)	78.2 (179)	10.5 (24)
	Deliks.	PLANNERS	6.0 (3)	86.0 (43)	8.0 (4)
		LEGIS	23.1 (3)	38.5 (5)	38.5 (5)
1-11		ADMIN	7.8 (18)		
	locating in the community.	PLANNERS	4.0 (2)	72.7 (168)	19.5 (45)
		LEGIS	15.4 (2)	84.0 (42) 38.5 (5)	12.0 (6) 45.2 (6)
1-12	Annual and naveral and a second secon			·	
\- I &	Amount and percentage of federal revenue sharing allocation attributable to the institution's presence in the community.	ADMIN PLANNERS	10.4 (24) 5.9 (3)	73.9 (170)	15.7 (36)
		LEGIS	23.1 (3)	78.4 (40) 30.8 (4)	15.7 (8) 46.2 (6)
_12	Incefeueton malesad controlled as				
	Institution-related contributions as a percentage of total community fund raising (e.g., United Fund program).	ADMIN	37.4 (86)	52.2 (120)	10.4 (24)
		PLANNERS	16.0 (8)	66.0 (33)	18.0 (9)
		LEGIS	23.1 (3)	30.8 (4)	46.2 (6)
1-14	Geographic distribution of alumni.	ADMIN	48.9 (114)	39.9 (93)	11.0 (00)
		PLANNERS	15.7 (8)	64.7 (33)	11.2 (26) 19.6 (10)
		LEGIS	23.1 (3)	38.5 (5)	38.5 (5)
-15	Community attitudes toward the institution (e.g., attitudes toward the				
	institution's contribution to community social/cultural activities and the institution's impact on the amount of crime in the community).	ADMIN	18.8 (43)	61.1 (140)	20.1 (46)
į	the community).	PLANNERS LEGIS	6.0 (3) 30.6 (4)	80.0 (40) 38.5 (5)	14.0 (7) 30.8 (4)
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-16	Number of persons from the community employed by the institution.	ADMIN PLANNERS	75.4 (175) 43.1 (22)	20.7 (48)	3.9 (9)
		LEGIS	46.2 (6)	47.1 (24) 30.8 (4)	9.8 (5) 23.1 (3)
_1	Distribution of publications by type of publication (e.g., books, mono-				
	graphs, etc.) per student, former student, and/or faculty member within a certain time period.	ADMIN	16.3 (37)	69.2 (157)	14.5 (33)
	The particular terms of the pa	PLANNERS LEGIS	5.9 (3) 23.1 (3)	84.3 (43) 46.2 (6)	9.8 (5) 30.8 (4)
-2	Number of times a given publication is cited in bibliographies of other authors within a certain time period.	ADMIN		85.8 (194)	12.8 (29)
- 1		PLANNERS		92.0 (46)	6.0 (3,
		LEGIS _	15.4 (2)	46.2 (6)	38.5 (5)
-3	Number of articles published per faculty/staff member in prestigious	ADMIN	35.7 (82)	52.2 (120)	12.2 (28)
	Journals within a certain time period.	,	24.0 (12)	68.0 (34)	8.0 (4)
		LEGIS	23.1 (3)	46.2 (6)	30.8 (4)
-4	Number of papers presented at professional meeting per student, former	ADMIN (23.6 (54)	59.0 (135) 1	2.5 (42)
	student, and/or faculty/staff member within a certain time period.	;			7.5 (40) 2.0 (6)
		LEGIS 2			8.5 (5)
	Number of awards and citations received by students, former students, and/or faculty members for their research and art products within a	l I			8.3 (42)
	certain time period.	- 1			4.0 (7) 8.5 (5)
6	Average amount of faculty time spent in selected research and art producing activities.	1			4.5 (33)
					7.6 (9)
ı	1,52	rra13 []	1 2/ 1 3	8.5 (5) 4	6.2 (6)

	OUTCOME MEASURE	HAVE ACCESS DON'T HAVE NOT SURE (%) (n) (%) ACCESS (n) (%) (n)
J-7	Number of proposals funded for certain purposes (e.g., research versus training) by level of funding as a percentage of all proposals submitted.	ADMIN 55.4 (128) 36.8 (85) 7.8 (18) PLANNERS 30.0 (15) 62.0 (31) 8.0 (4) LEGIS 30.8 (4) 30.8 (4) 38.5 (5)
J-8	Total dollar amount of gifts and/or grants received for certain purposes (e.g., research versus training) as a percentage of total budget within a certain time period.	ADMIN 68.5 (159) 27.2 (63) 4.3 (10) PLANNERS 48.0 (24) 40.0 (20) 12.0 (6) LEGIS 50.0 (6) 25.0 (3) 25.0 (3)
J-9	Number and percentage of faculty/staff surveyed who have created films, taped lectures, etc. within a certain time period.	ADMIN 33.2 (76) 51.5 (118) 15.3 (35) PLANNERS 19.6 (10) 70.6 (36) 9.8 (5) LEGIS 7.7 (1) 53.8 (7) 38.5 (5)
J-10	Number of patents and/or copyrights received per student, former student, and/or faculty member within a certain time period.	ADMIN 14.1 (32) 72.2 (164) 13.7 (31) PLANNERS 6.0 (3) 80.0 (40) 14.0 (7) LEGIS 15.4 (2) 61.5 (8) 23.1 (3)
J-11	Number of books or monographs written by faculty/staff that are published commercially within a certain time period.	ADMIN 40.7 (94) 44.6 (103) 14.7 (34) PLANNERS 20.0 (10) 72.0 (36) 8.0 (4) LEGIS 38.5 (5) 38.5 (5) 23.1 (3)
J-12	Judgements of peer groups and/or potential beneficiary groups recarding the worth/impact of research project results.	ADMIN 11.4 (26) 75.5 (173) 13.1 (30) PLANNERS 8.0 (4) 84.0 (42) 8.0 (4) LEGIS 23.1 (3) 61.5 (8) 15.4 (2)
J-13	Number and percentage of graduates engaged in research activities.	ADMIN 9.6 (22) 75.4 (172) 14.9 (34) PLANNERS 3.9 (2) 90.2 (46) 5.9 (3) LEGIS 30.8 (4) 38.5 (5) 30.8 (4)
J-14	Number and percentage of faculty /staff and students <u>invited</u> to participate in professional meetings and conferences.	ADMIN 25.8 (59) 57.2 (131) 17.0 (39) PLANNERS 14.0 (7) 82.0 (41) 4.0 (2) LEGIS 15.4 (2) 53.8 (7) 30.8 (4)
J-15	Number and percentage of graduates who have produced or exhibited certain art forms (e.g., paintings, sculptures, plays, etc.).	AOMIN 10.2 (23) 74.3 (168) 15.5 (35) PLANNERS 2.0 (1) 88.0 (44) 10.0 (5) LEGIS 8.3 (1) 58.3 (7) 33.3 (4)
	153	

TABLE C.7

The Percentage and Number of Responses to the "Needs" Question, by Sector of State-Level Planner*



^{*}Two sectors of state-level planners were surveyed: (1) state directors of higher education boards or coordinating councils [this group was identified from the December 15, 1973 listing of State Higher Education Executive Officers--SHEEO], and (2) state directors of community/junior college boards, coordinating councils, or comparable agencies [this group was identified from a November 15, 1973 listing furnished by the American Association of Community/Junior Colleges--AAC/JC].

It should be noted in reviewing this table that if a respondent did not record a choice for any measure in the questionnaire, the no response was not considered in calculating the distribution of responses across the question categories in the table.

	OUTCOME MEASURE BEST COPY AVAILABLE		NEED (%) (n)	WOULD LIKE	DOI('T NEED (%) (n)
A-1	Student scores on tests that indicate development in their breadth of knowledge about facts and principles across several broad fields of study (a.g., the humanities, the physical sciences, etc.).	SHEEO AAC/JC	45.2 (14) 10.5 (2)	35.5 (11) 73.7 (14)	19.4 (6) 15.8 (3)
A-2	Student scores on tests that indicate development in their depth of know-ledge concerning facts and principles in the particular fields in which a student elects to study.	SHEEO AAC/JC	53.3 (16) 31.6 (6)	23.3 (7) 57.9 (11)	23.3 (7)
A-3	Number of students passing certification or licensing exams (e.g., bar exam, CPA, LPN) on the first attempt as a percentage of all students taking the exam.	SHEEO AAC/JC	62.5 (20) 57.9 (11)	37.5 (12) 42.1 (8)	0.0 (0)
A-4	Student scores on tests that indicate time ir ability to apply general or specialized knowledge to a problem and to implement a solution.	SHEEO AAC/J C	32.3 (10) 26.3 (5)	41.9 (13) 52.6 (10)	25.8 (8) 21.1 (4)
A- 5	Student scores on tests that indicate thier ability to <u>analyze</u> problems (e.g., the recognition of biased points in an article or speech)	SHEEO AAC/JC	25.8 (8) 15.8 (3)	48.4 (15) 63.2 (12)	25.8 (8) 21.1 (4)
A-6	Number of patents awarded and copyrights obtained by students and/or former students within a certain time period.	SHEEO AAC/JC	16.1 (5) 0.0 (0)	35.5 (11) 57.9 (11)	48.4 (15) 42.1 (8)
A-7	Student scores on tests that indicate their ability to read, write, speak, and/or listen.	SHEEO AAC/JC	46.9 (15) 36.8 (7)	40.6 (13) 57.9 (11)	12.5 (4) 5.3 (1)
A-8	Number and percentage of students surveyed who have participated in activities that enhance their communication skills (e.g., debate, encounter groups, etc.).	SHEEO AAC/JC	3.1 (1) 19.5 (2)	37.5 (12) 31.6 (6)	59.4 (19) 57.9 (11)
A-9	Student scores on tests that indicate their ability to perform tasks requiring physical dexterity and skill.	SHEEO AAC/JC	0.0 (0) 21.1 (4)	21.9 (7) 36.8 (7)	78.1 (25) 42.1 (8)
A-10	Number and percentage of students surveyed who have participated in activities that enhance thier athletic skills (e.g., intramural and varsity sports).	SHEEO AAC/JC	0.0 (0) 0.0 (0)	25.0 (8) 42.1 (8)	75.0 (24) 57.9 (11)
8-1	Number and percentage of students surveyed identifying a certain degree, diploma, or certificate as the highest degree planned.	SHEEO AAC/JC	78.1 (25) 68.4 (13)	18.7 (6) 21.1 (4)	3.1 (1) 10.5 (2)
B-2	Number and percentage of students surveyed who have changed majors (lower divison, upper division, and/or graduate) within a certain time period	SHEEO AAC/JC	43.7 (14) 52.6 (10)	43.7 (14) 42.1 (8)	12.5 (4) 5.3 (1)



	OUTCOME MEASURE		NEED (%) (n)	WOULD LIKE (%) (n)	DON'T NEED
B-3	Number and percentage of students surveyed who are taking noncredit, independent study, or special courses.	SHEEO AAC/JC	62.5 (20) 68.4 (13)	34.4 (11) 21.1 (4)	3.1 (1) 10.5 (2)
B-4	Number of awards and citations received per student and/or former student for their academic performance.	SHEEO AAC/JC	15.6 (5) 5.3 (1)	43.7 (14) 68.4 (13)	40.6 (13) 26.3 (5)
8-5	Number of students receiving a degree, diploma, and certificate within a certain time period.	SHEEO AAC/JC	90.6 (29) 78.9 (15)	9.4 (3) 15.8 (3)	0.0 (0) 5.3 (1)
8-6	Average amount of time takes a student to earn a degree, diploma, or certificate.	SHEEO AAC/JC	68.7 (22) 63.2 (12)	21.2 (10) 31.6 (6)	0.0 (0) 5.3 (1)
8-7	Number of students graduating from the institution after a certain period of time as a percentage of their entering class.	SHEEO AAC/JC	67.7 (21) 89.5 (17)	32.3 (10) 10.5 (2)	0.0 (0)
8-8	Number and percentage of graduates for the year who transferred from another school.	SHEEO AAC/JC	59.4 (19) 68.4 (13)	34.4 (11) 21.1 (4)	6.3 (2)
8-9	Number and percentage of students leaving the institution prior to receiving a degree, diploma or certificate during a particular academic term or year.	SHEEO AAC/JC	71.9 (23) 73.7 (14)	28.1 (9) 26.3 (5)	0.0 (0)
B-10	Number of graduates accepted for study in another educational program that will result in a degree, diploma or certificate as a percentage of those applying.	SHEEO AAC/JC	45.2 (14) 68.4 (13)	48.4 (15) 26.3 (5)	6.5 (2) 5.3 (1)
8-11	Number of graduates working toward or receiving another educational degree, diploma, or certificate after a certain time period following graduation as a percentage of their graduating class.	SHEEO AAC/JC	51.6 (16) 63.2 (12)	41.9 (13) 36.8 (7)	6.5 (2)
B-12	Student and/or former student scores on a scale measuring their perceptions of their educational achievement.	SHEED AAC/JC	41.9 (13) 42.1 (8)	32.3 (10) 47.4 (9)	25.8 (8) 10.5 (2)
B-13	Student scores on a scale measuring their perceptions about the amount of learning that took place in certain activities sponsored by the institution outside of formal instruction.	SHEEO AAC/JC	19.4 (6) 36.8 (7)	48.4 (15) 47.4 (9)	32.3 (10) 15.8 (3)
8-14	Student scores on a scale measuring their interest in continued self- initiated study and inquiry.	SHEEO AAC/JC	21.9 (7)	43.7 (14) 42.1 (8)	34.4 (11) 26.3 (5)
C-1	Number and percentage of former students surveyed who indicate that they would send their children to the same school.	SHEEO AAC/JC	12.5 (4) 21.1 (4)	40.6 (13) 42.1 (8)	46.9 (15) 36.8 (7)

	OUTCOME MEASURE		NEED (%) (n)	WOULD LIKE	DON'T NEED
Ç-2	Average amount of alumni gifts within a certain time period after graquation.	SHEEO AAC/JC	3.1 (1) 10.5 (2)	40.6 (13) 36.8 (7)	56.2 (18) 52.6 (10)
C-3	Student and/or former student scores on a scale measuring their degree of satisfaction with their overall educational experience.	SHEEO AAC/JC	37.5 (12) 57.9 (11)	46.9 (15) 31.6 (6)	15.6 (5) 10.5 (2)
C-4	Student scores on a scale measuring their degree of satisfaction with their knowledge and skills development (e.g., changes in their breadth and depth of knowledge, changes in their communication skills).	SHEEO AAC/JC	28.1 (9) 47.4 (9)	53.1 (17) 36.8 (7)	18.7 (6) 15.8 (3)
C-5	5 int scores on a scale measuring their degree of satisfaction with their promobal development (e.g., changes in their ability to cope with new six unions, changes in their self-concept).	SHEEO AAC/JC	15.6 (5) 26.3 (5)	50.0 (16) 57.9 (11)	34.4 (11) 15.8 (3)
C-6	Student scores on a scale measuring their degree of satisfaction with their social and cultural development (e.g., changes in their ability to get along with others, changes in their appreciation of cultural activities and artifacts).	SHEEO AAC/JC	12.5 (4) 15.8 (3)	56.2 (18) 58.4 (13)	31 2 (10) 15.8 (3)
C-7	Student scores on a scale measuring their degree of satisfaction with their progress in achieving their educational career goals.	SHFEO AAC/AC	37.5 (12) 52.6 (10)	46.9 (15) 36.8 (7)	15.6 (5) 10.5 (2)
C-8	Student scores on a scale measuring their degree of satisfaction with their progress in achieving their occupational career goals.	SHEEO AAC/JC	46.9 (15) 57.9 (11)	40.6 (13) 42.1 (8)	12.5 (4) 0.0 (0)
D-1	Number and percentage of former students (graduates and nongraduates) surveyed who were employed within a certain time period after leaving the insti- tution.	SHEEO AAC/JC	62.5 (20) 78.9 (15)	34.4 (11) 21.1 (4)	3.1 (1) 0.0 (0)
)-2	Number and percentage of former students (graduates and nongraduates) surveyed who received the job of their first choice.	SHEEO AAC/JC	37.5 (12) 63.2 (12)	43.7 (14) 36.8 (7)	18.7 (6) 0.0 (0)
-3	Average first salary of former students.	SHEEO AAC/JC	34.4 (11) 68.4 (13)	50.0 (16) 31.6 (6)	15.6 (5) 0.0 (0)
0-4	+u+ion	SHEEO AAC/JC	43.7 (14) 57.9 (11)	37.5 (12) 36.8 (7)	18.7 (6) 5.3 (1)
0-5		SHEEO AAC/JC	15.6 (5) 31.6 (6)	56.2 (18) 57.9 (11)	28.1 (9) 10.5 (2)
0-6		SHEEO AAC/JC	12.5 (4) 5.3 (1)	34.4 (11) 63.2 (12)	53.1 (17) 31.6 (6)
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	OUTCOME MEASURE		NEED (%) (n)	WOULD LIKE	DON'T KZED
0-7	Number and percentage of former students surveyed who are in management positions within a certain time period after leaving the institution.	SHEEG AAC/JC	12.5 (4) 22.2 (4)	53.1 (17) 72.2 (13)	34.4 (11) 5.6 (1)
D-8	Number of voluntary/involuntary changes in employment within a given time period per former student surveyed.	SHEEO AAC/JC	6.3 (2) 36.8 (7)	43.7 (14) 52.6 (10)	50.0 (16) 10.5 (2)
D-9	Number of voluntary/involuntary changes in <u>career field</u> within a given time period per former student surveyed.	SHEEO AAC/JC	21.9 (7) 47.4 (9)	46.9 (15) 42.1 (8)	31.2 (10) 10.5 (2)
Ð-10	Average first salary expectations of students.	SHEEO AAC/JC	12.5 (4) 26.3 (5)	65.6 (21) 68.4 (13)	21.9 (7) 5.3 (1)
D-11	Number and percentage of students surveyed who are aspiring to a particular type of occupational career.	SHEEO AAC/JC	65.6 (21) 73.7 (14)	28.1 (9) 26.3 (5)	6.3 (2) 0.0 (0)
D-12	Number and percentage of students and/or former students surveyed who are seeking certain levels of employment.	SHEEO AAC/JC	28.1 (9) 52.6 (10)	43.7 (14) 47.4 (9)	28.1 (9) 0.0 (0)
0-13	Number and percentage of former students (graduates and nongraduates) surveyed accepting employment in their major field of study.	SHEEO AAC/JC	68.7 (22) 78.9 (15)	31.2 (10) 21.1 (4)	0.0 (0)
E-1	Number of students and/or former students reporting certain mental and physical illnesses as a percentage of all the students and/or former students surveyed.	SHEE0 AAC/JC	9.4 (3)	25.0 (9) 42.1 (8)	65.6 (21) 47.4 (9)
E-2	Number and percentage of students : veyed who have participated in special mental health counseling procrams within a certain period of time.	SHEE0 AAC/JC	9.4 (3) 5.3 (1)	25.0 (8) 52.6 (10)	65.6 (21) 42.1 (8)
E-3	Number and percentage of students and/or former students surveyed who belong to or hold office in religious organizations.	SHEE0 AAC/JC	3.1 (1) ~ 0.0 (0)	9.4 (3)	87.5 (28) 100.0 (19)
E-4	Student and/or former student scores on a scale measuring their religious and spiritual attitudes and beliefs.	SHEEO AAC/JC	3.1 (1) 0.0 (0)	12.5 (4) 5.3 (1)	84.4 (27) 94.7 (18)
£-5	Number and percentage of students and/or former students surveyed who regularly attend religious services.	SHEEO AAC/JC	3.1 (1) 0.0 (0)	12.5 (4) 0.0 (0)	84.4 (27) 100.0 (19)
E-6	Student and/or former student scores on a scale measuring their attitudes and beliefs toward new or different ideas and things.	SHEEO AAC/JC	15.6 (5) 10.5 (2)	28.1 (9) 36.8 (7)	56.2 (18) 52.6 (10)

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	OUTCOME MEASURE		(%) (n)	WOULD LIKE	DON'T NEED
E-7	Student and/or former student scores on a scale measuring their per- ceptions about thier self-image.	SHEEO AAC/JC	12.5 (4) 15.8 (3)	28.1 (9) 47.4 (9)	59.4 (19) 36.8 (7)
F-1	Number and percentage of students and/or former students surveyed who hold membership in social, charitable, political, or civic organizations.	SHEEO AAC/JC	3.1 (1) 0.0 (0)	34.4 (11) 47.4 (9)	62.5 (20) 52.6 (10)
F-2	Number of awards and citations earned per student and/or former student for social contributions.	SHEEO AAC/JC	9.4 (3) 0.0 (0)	21.9 (7)	68.7 (22) 63.2 (12)
F-3	Student and/or former student scores on a scale measuring their perceptions about their ability to live and interact with other people.	SHEEO AAC/JC	9.4 (3)	43.7 (14) 57.9 (11)	46.9 (15) 26.3 (5)
F-4	Number and percentage of students and/or former students surveyed who have been candidates for positions in local, state, and federal government.	SHEEO AAC/JC	6.3 (2) 5.3 (1)	40.6 (13) 63.2 (12)	53.1 (17) 31.6 (6)
F-5	Number and percentage of students and/or former students surveyed who hold office in social, charitable, political, or civic organizations.	SHEEO AAC/JC	3.1 (1) 5.3 (1)	34.4 (11) 52.6 (10)	62.5 (20) 42.1 (8)
F-6	Number and percentage of students and/or former students surveyed who have participated in special social development programs (e.g., the Peace Corps, and VISTA).	SHEEO AAC/JC	3.1 (1) 5.6 (1)	37.5 (12) 33.3 (6)	59.4 (19) 61.1 (11)
F-7	Number and percentage of students and/or former students surveyed who have changed their political party affiliation within a certain period of time.	SHEEO AAC/JC	0.0 (0)	25.0 (8) 0.0 (0)	75.0 (24) 100.0 (19)
F-8	Amount of monetary contributions per student and/or former strimmade to political, charitable, and social organizations or spec'est groups within a certain time period relative to income categories.	SHEEO AAC/JC	0.0 (0)	18.7 (6) 10.5 (2)	81.2 (26) 89.5 (17)
F-9	Average amount of time devoted to political, charitable, and social organizations or special interest groups within a certain time period per student and/or former student.	SHEEO AAC/JC	0.0 (0)	25.0 (8) 21.1 (4)	75.0 (24) 78.9 (15)
F-10	Student and/or former student scores on a scale measuring their political attitudes and beliefs.	SHEEO AAC/JC	6.3 (2) 0.0 (0)	25.0 (8) 15.8 (3)	68.7 (22) 84.2 (16)
	Number and percentage of students and/or former students surveyed who have used mechanisms of the political process (e.g., voted in elections, circulated petitions, attended hearings, written letters to their congressman).	SHEEO AAC/JC	0.0 (0)	34.4 (11) 36.8 (7;	65.6 (21) 63.2 (12)
F-12	Student and/or former student scores on a scale measuring their racial and ethnic attitudes and beliefs.	SHEEO AAC/JC	3.1 (1) 15.8 (3)	46.9 (?5) 36.8 (7)	50.0 (16) 47.4 (9)
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	OUTCOME MEASURE BEST COPY AVAILABLE		NEED W	OULD LIKE (%) (n)	DON'T NEED (%) (n)
F-13	Student and/or former student scores on a scale measuring their ethical and moral attitudes and beliefs and their concern for human welfare.	SHEEO AAC/JC	1 1	50.0 (16) 36.8 (7)	46.9 (15) 47.4 (9)
F-14	Student and/or former student scores on a scale measuring their current and desired social and economic level.	SHEEO AAC/JC	1 ' 1	50.0 (16) 47.4 (9)	40.6 (13) 26.3 (5)
F-15	Student and/or former student scores on a scale measuring their interest in and acquaintance with the arts, great books, and other cultural artifacts and activities.	SHEEO AAC/JC	1 1	56.2 (18) 57.9 (11)	34.4 (11) 42.1 (8)
F-16	Number of students and/or former students having a personal library of well-known literary works or pieces of art as a percentage of all students and/or former students surveyed.	SHEEO AAC/JC	1 1	18.7 (6) 15.8 (3)	78.1 (25) 84.2 (16)
G-1	Number of nonmatriculating participants enrolled in instructional programs as a percentage of the total number of persons in those programs.	SHEEO AAC/JC	1	28.1 (9) 31.6 (6)	3.1 (1) 0.0 (0)
G-2	Nonmatriculating participant scores on a scale measuring their degree of satisfaction with their educational experience.	SHEEO AAC/JC	- 1	50.0 (16) 42.1 (8)	18.7 (6) 10.5 (2)
G-3	Number and percentage of nonmatriculating participants surveyed who received a promotion and/or salary increase as a result of job-related educational experiences.	SHEEO AAC/JC	1	40.6 (13) 31.6 (6)	25.0 (8) 5.3 (1)
G-4	Scores of nonmatriculating participants, who are working or have returned to their job, on a scale measuring their satisfaction with their job performance as a result of job-related educational experiences.	SHEEO AAC/JC	1	37.5 (12) 31.6 (6)	37.5 (12) 5.3 (1)
G-5	Average amount of time per £aculty/staff member spent in selected educational activities for their personal educational growth and development while at the institution.	SHEEO AAC/JC	1 1	56.2 (18) 31.6 (6)	15.6 (5) 10.5 (2)
G-6	Faculty/staff scores on a scale measuring their perceptions of their educational growth and development as a result of their experiences while at the institution.	SHEEO AAC/JC		62.5 (20) 52.6 (10)	28.1 (9) 10.5 (2)
H-1	Average amount of time faculty/staff and students spent in selected community service activities (e.g., giving professional service and advice outside the institution) within a certain time period.	SHE E O AAC/JC	1 3	59.4 (19) 32.1 (8)	3.1 (1) 15.8 (3)
H-2	Estimated replacement value of specific community services received by individuals or organizations that receive the services.	SHEEO AAC/JC	1 1	66.2 (18) 66.7 (12)	25.0 (8) 5.6 (1)
H-3	Ratio of total income for community services to total budget for community services.	SHEEO AAC/JC	1 1	6.9 (15) 31.1 (11)	25.0 (8) 0.0 (0)

	OUTCOME MEASURE		NEED (%) (n)	WOULD LIKE (%) (n)	DON'T NEED (%) (n)
H-4	Number of faculty/staff on leave from the institution to local, state, and national governments in a policy, management or technical role.	SHEEO AAC/JC	37.5 (12) 31.6 (6)	53.1 (17) 26.3 (5)	9.4 (3) 42.1 (8)
H-5	Number of individuals not associated with the institution who were served by a particular support program (e.g., the computer center, the library, the health services staff, etc.) as a percentage of the total number of individuals served within a certain time period.	SHEEO AAC/JC	28.1 (9) 52.6 (10)	62.5 (20) 42.1 (8)	9.4 (3) 5.3 (1)
H-6	Estimated monetary value of specific community services (e.g., health services, computer services, etc.) offered relative to other comparable services offered elsewhere.	SHEEO AAC/JC	28.1 (9) 38.9 (7)	59.4 (19) 50.0 (9)	12.5 (4) 11.1 (2)
H-7	Number and percentage of persons attending selected extramural, cultural, and recreational events who are not students or members of the institution's faculty/staff.	SHEEO AAC/JC	21.9 (7) 21.1 (4)	40.6 (13) 52.6 (10)	37.5 (12) 26.3 (5)
I-1	Number and percentage of students who are employed in businesses, agencies and organiztions in the community.	SHEEO AAC/JC	25.9 (8) 47.4 (9)	39.4 (19) 52.6 (10)	15.6 (5) 0.0 (0)
I-2	Number and percentage of graduates of a particular graduating class who are employed in-state versus out-of-state.	SHEEO AAC/JC	62.5 (20) 68.4 (13)	31.2 (10) 26.3 (5)	6.3 (2) 5.3 (1)
I-3	Total dollar amount of goods and services purchased by the institution from a particular sector of the community within a certain time period.	SHEEO AAC/JC	15.6 (5) 21.1 (4)	53.1 (17) 47.4 (9)	31.2 (10) 31.6 (6)
I-4	Faculty/staff and student expenditures in the community within a certain time period.	SHEEO AAC/JC	12.5 (4) 10.5 (2)	62.5 (20) 68.4 (13)	25.0 (8) 21.1 (4)
I-5	Estimated dollar amount of the institution's payroll as a percentage of the estimated total community payroll.	SHEEO AAC/JC	21.9 (7) 26.3 (5)	53.1 (17) 63.2 (12)	25.0 (8) 10.5 (2)
I-6	Amount of land removed from the community tax base as a result of the existence of the institution.	SHEEO AAC/JC	15.6 (5) 21.1 (4)	62.5 (20) 52.6 (10)	21.9 (7) 26.3 (5)
I-7	Employers scores on a scale measuring their degree of satisfaction with the performance of students and/or former students on the job.	SHEE0 AAC/JC	37.5 (12) 47.4 (9)	50.0 (16) 47.4 (9)	12.5 (4) 5.3 (1)
1-8	Amount of private housing owned or rented by students and/or faculty/staf: as a percentage of the total housing available in the community.	SHEEO AAC/JC	12.5 (4) 15.8 (3)	53.1 (17) 47.4 (9)	34.4 (11) 36.8 (7)
ï-9	Value of community business properties attributable to institution- related expenditures.	SHEE0 AAC/JC	12.9 (4)	48.4 (15) 63.2 (12)	38.7 (12) 26.3 (5)
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	OUTCOME MEASURE		NEE0 (%) (n)	WOULD LIKE (%) (n)	DON'T NEED
I-10	Amount and percentage of the local credit base due to institution-related deposits in community banks.	SHEEO AAC/JC	9.4 (3)	40.6 (13) 57.9 (11)	50.0 (16) 42.1 (8)
1-11	Extent to which the presence of the institution influences businesses locating in the community.	SHEEC AAC/JC	25.0 (8) 47.4 (9)	56.2 (18) 52.6 (10)	18.7 (6) 6.0 (0)
I-12	Amount and percentage of federal revenue sharing allocation attributable to the institution's presence in the community.	SHEEO AAC/JC	12.5 (4) 42.1 (8)	68.7 (22) 57.9 (11)	18.7 (6) 0.0 (0)
I-13	Institution-related contributions as a percentage of total community fund raising (e.g., United Fund program).	SHEEO AAC/JC	6.3 (2)	46.9 (15) 57.9 (11)	46.9 (15) 31.6 (6)
I-14	Geographic distribution of alumni.	SHEE(. AAC/4C	40.6 (13) 42.1 (8)	43.7 (14) 52.6 (10)	15.6 (5) 5.3 (1)
I-15	Community attitudes toward the institution (e.g., attitudes toward the institution's contribution to community social/cultural activities and the institution's impact on the amount of crime in the community).	SHEEO AAC/JC	37.5 (12) 63.2 (12)	50.0 (16) 31.6 (6)	12.5 (4) 5.3 (1)
1-16	Number of persons from the community employed by the institution.	SHEEO AAC/JC	25.0 (8) 42.1 (8)	56.2 (18) 42.1 (8)	18.7 (6) 15.8 (3)
J-1	Distribution of publications by type of publication (e.g., books, monographs, etc.) per student, former student, and/or faculty member within a certain time period.	SHEEO AAC/JC	18.7 (6) 10.5 (2)	34.4 (11) 42.1 (8)	46.9 (15) ' 47.4 (9)
J-2	Number of times a given publication is cited in bibliographies of other authors within a certain time period.	SHEEO AAC/JC	6.3 (2) 0.0 (0)	21.9 (7) 36.8 (7)	71.9 (23) 63.2 (12)
J-3	Number of articles published per faculty/staff member in prestigious journals within a certain time period.	SHEEO AAC/JC	21.9 (7) 15.8 (3)	43.7 (14) 26.3 (5)	34.4 (11) 57.9 (11)
J-4	Number of papers presented at professional meeting per student, former student, and/or faculty/staff member within a certain time period.	SHEEO AAC/JC	12.5 (4) 15.8 (3)	50.0 (16) 31.6 (6)	37.5 (12) 52.6 (10)
J-5	Number of awards and citations received by students, former students, and/or faculty members for their research and art products within a certain time period.	SHEEO AAC/JC	15.6 (5) 15.8 (3)	40.6 (13) 42.1 (8)	43.7 (14) 42.1 (8)
J-6	Average amount of faculty time spent in selected research and art producing activities.	SHEE0 AAC/JC	53.1 (17) 26.3 (5)	46.9 (15) 42.1 (8)	0.0 (0) 31.6 (6)

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 	OUTCOME MEASURE		NEED (%) (n)	WOULD LIKE	DOM'T NEED
J-7	Number of proposals funded for certain purposes (e.g., research versus training) by level of funding as a percentage of all proposals submitted.	SHEEO AAC/JC	46.9 (15) 31.6 (6)	40.6 (13) 36.8 (7)	12.5 (4) 31.6 (6)
J-8	Total dollar amount of gifts and/or grants received for certain purposes (e.g., research versus training) as a percentage of total budget within a certain time period.	SHEEO AAC/JC	56.2 (18) 42.1 (8)	31.2 (10) 36.8 (7)	12.5 (4) 21.1 (4)
J-9	Number and percentage of faculty/staff surveyed who have created films, taped lectures, etc. within a certain time period.	SHEEO AAC/JC	15.6 f c; 15.8 f 3)	46.9 (15) 52.6 (10)	37.5 (12) 31.6 (6)
J-10	Number of patents and/or copyrights received per student, former student, and/or faculty member within a certain time period.	SHEEO AAC/JC	12.5 (4) 10.5 (2)	50.0 (16) 47.4 (9)	37.5 (12) 42.1 (8)
J-17	Number of books or monographs written by faculty/staff that are published commercially within a certain time period.	SHEEO AAC/JC	25.0 (8) 10.5 (2)	43.7 (14) 36.8 (7)	31.2 (10) 52.6 (10)
J-12	Judgements of peer groups and/or potential beneficiary groups regarding the worth/impact of research project results.	SHEEO AAC/JC	21.9 (7) 15.8 (3)	59.4 (19) 47.4 (9)	18.7 (6) 36.8 (7)
J-13	Number and percentage of graduates engaged in research activities.	SHEEO AAC/JC	15.6 (5) 15.8 (3)	59.4 (19) 31.6 (6)	25.0 (8) 52.6 (10)
J-14	Number and percentage of faculty /staff and students <u>invited</u> to participate in professional meetings and conferences.	SHEEO AAC/JC	6.3 (2) 15.8 (3)	25.0 (8) 36.8 (7)	68.7 (22) 47.4 (9)
J-15	Number and percentage of graduates who have produced or exhibited certain art forms (e.g., paintings, sculptures, plays, etc.).	SHEEO AAC/JC	6.3 (2)	46.9 (15) 36.8 (7)	46.9 (15) 60.2 (12)
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