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ABSTRACT

The problems of developing a low cost, quality institutional research program capable of longitudinal research, continuous broad bandwidth monitoring and data comparisons with other institutions, led to the development of the Hampshire Cycles Survey as an initial set of student quality of life indicators. Cycles is a multidimensional survey instrument with behavioral and nonbehavioral questions. Test-retest reliabilities range from .50 to 1.00. Cycles has been used to investigate short-term changes in key monitoring variables over the course of a term and to measure annual changes in quality of life for all students and for specific subgroupings such as freshmen or women. In addition to establishing data baselines, Cycles can be used to link norm-referenced and criterion-based evaluations. (Author/BW)

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Using Quality of Student Life Indicators

at Three Cooperating Colleges - The Cycles Survey

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The institutional researcher in higher education has lacked a good set of indicators for monitoring the quality of student life. Some psychological handbooks of research instruments now exist and some commercial tests have gained currency; yet these can be especially illsuited for innovative and experimental colleges, programs and goals, or for low-budget institutional research at any kind of school (Bonjean, Hill, and McLemore, 1967; Buros, 1965; Miller, 1964; Robinson and Shaver, 1969; Shaw and Wright, 1967).

In confronting the problems of developing a low cost, quality institutional research program capable of longitudinal research, continuous, broad, bandwidth monitoring and data comparisons with other institutions, an initial set of quality of life indicators has been developed - the Cycles Survey.

The Cycles surveys have been developing over three years and have been used at Hampshire College for twelve surveys over a five-semester period. Cycles have been used to investigate short-term changes in key monitoring variables over the course of a term, and to measure annual changes at the college for the population as a whole as well as for specific subgroups.

Background

The Cycles Survey (copy attached) is composed of approximately fifty items measuring behavioral and non-behavioral variables. During the velopment of both the items and the survey instrument itself several response modes were considered. Uniform response categories



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were selected to provide comparability across questions and surveys, to save space and response time, and to reduce potential for respondent confusion. These scales are the four-point Satisfaction scale and the five-point Extent scale. (Taylor and Bowers, 1972)

The Cycles Survey is purposely a multi-dimensional instrument. The items, which span a broad variety of characteristics are straightforward and have high face validity. Attempts to establish a reliability index for Cycles were more complicated than would otherwise have been necessary. A simple split-half reliability could not be used. Cycles is purposely composed of single-item indicators for key variables. This is for ease of administration and response and comparability of results with similar instruments. Consequently, the many available, but much longer, reliable scales often used to measure the variables found in Cycles were not appropriate (cf., Robinson and Shaver, 1969). Cycles Surveys focus on students' experience during an explicit time period initially two weeks. This explicit temporal focus made a modification of a Test-Retest reliability analysis necessary.

For the retest reliability study, respondents to a Cycles Survey were requested after a week to complete another Cycles Survey — the second, focusing on the prior three weeks' experience. The results the reliability study showed that all but three Cycles items had Pearson Correlations significant at p <.01. Of the three non-significant items (p >.05) two requested <u>time</u> estimates for noncourse academic work and for play. Two-tailed t-tests examined the data for linear shifts in responses during the retest period. All items showed no

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significant differences.

Finally, t-tests were computed to compare respondents of the first survey who completed the retest to those who did not complete the retest. Only two questions showed a significant difference (p < .01) in that retest non-respondents were less satisfied with their college experience in general (t = .049, n = 30, p <.01) and more satisfied with the weather and outside environment (t = .036, n = 30, p <.01) (Kegan, 1974b).

In summary, since the Cycles Survey deals with variables with a great potential for change over time, it was necessary to carefully document that the instrument under test-retest situations is highly reliable. Pearson correlations range from .50 to 1.00 with modal correlations in the .60's.

Use of Cycles

The frequency of administration of Cycles depends on the data collection needs. Maintaining periodic data collections over a term establishes a baseline of data from which change can be appropriately observed (Campbell and Stanley, 1963). Change over time due to maturity can be compared with changes in quality of life following a major programmatic event (e.g., budget cuts, coeducation). Since previous Cycles data are available, past data may be reanalyzed with current data to evaluate a new program or educational experiment without the threat to validity of introducing a new measurement procedure.

On a simpler level, the Cycles surveys provide fast data for decision-making about the "state" of the college, planned events, and



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students' feelings and behavior. Simple frequencies of events or predictions of contributors to overall satisfaction with college experience are readily provided.

Finally, the greatest potential impact of the Cycles surveys is from their use in developing rational criteria for quality of life evaluations. Criterion-based evaluation, which provides an indication of high or low frequency of response relative to a criterion on a variable is not sufficient for decision-making. Neither is a strict norm-based evaluation. The characteristics of criterion-referenced evaluation better approximate the appropriate technique. However, defining the criteria requires a context from which to examine data. A comparison of results from the quality of life indicators at different institutions provides a framework from which to view data. The purpose here is not to technically norm data but make possible a thoughtful analysis of results, which is not possible when data from the home institution are considered in isolation. The Cycles surveys are currently establishing such a criterion/norm-based context. In addition to the multiple use of Cycles at Hampshire College (where they were originally developed) it has been run at Amherst College and at the University of Massachusetts. At the University, Cycles was run both by phone and by mail. These institutions are quite different in size and type yet, since the purpose is not to norm data but to provide a comparable framework for analysis, the data collected are quite useful. The individual institution's results of Cycles and some comparative analyses results will be presented.

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METHOD

Subjects

Subjects for each Cycles survey are randomly selected and sent the survey by mail or called by phone. With mail surveys a follow-up survey is often used to increase the number of respondents. The phone surveys have had no follow-up. Since Cycles attempts to measure periodic change, the subjects are asked to respond to most questions from the framework of "the past two weeks".

Materials

The Cycles surveys are composed of approximately fifty short answer or multiple-choice questions. These items were selected or developed at Hampshire College to meet the following criteria: suitability for use at Hampshire College (an experimental education institution; brevity; reliability and validity. Items with high item/total correlation were selected from multiple item scales or were used as models for developing items.

In general, students are asked their satisfaction with several aspects of their college experience, how they spend their time, and what they have learned recently. There are demographic questions and four open-ended questions, but the majority of the items are responded to by using the Extent scale or the Satisfaction scale.

About twelve questions deal with demographic information, for example, age, sex, residence. Behavioral questions cover the number of



hours spent sleeping per night, doing academic work per day, playingrelaxing per day, meetings with advisor and the number of minutes required to complete the survey. Non-behavioral questions assess satisfaction with college experience, academic progress, residence hall experience, commitment to working group, isolation, enthusiasm and trust.

Depending on the purpose for collecting data, the kinds of analyses vary. Analyses ranged from simple frequency distributions to discriminant analyses. Since the results from several Cycles will be presented in the following section, the analyses will be described with the results.





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RESULTS

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The purpose of presenting the following results is to initiate the development of a framework from which to examine and interpret the quality of life data obtained from administering Cycles.

Hampshire College Analysis

During the Spring of 1974, five separate random samples of 100 students each were asked to respond to Cycles surveys at Hampshire College. Of particular interest was the analysis of change in variables over the course of the term and analysis of variables associated with key criterion questions. Cycles 1 was sent to 150 students; Cycles 2-5 was sent to 100 students. The response rates were 20%, 30%, 22%, 35% and 61% respectively. Cycles 5 had a follow-up to increase response rate.

Forty-two(42) questions were analyzed for changes during the Spring term. Two-tailed t-tests showed that 17 variables differed significantly (p <.05) during a time period.

Insert Table I about here

Some of the changes were to be expected given the related events of the academic calendar. For example, during the fifth Cycles period, students reported meeting more often and for more hours with their advisors; this Cycles period included the official advising session.



As could be expected from acquaintance with New England winters, the fifth Cycles period also saw students more satisfied with the weather and outside environment and more able to participate in and create fun while completing their necessary work.

Spring Recess and warmer weather did not bring significant changes in academic work. Over the course of the term there were no significant reported changes in satisfaction with one's academic progress or in the amount of effort put into course work. After Spring Recess there were no significant reported changes in the amount of effort put into non-course academic work or in the ratio of course to total academic work. However, satisfaction with one's advisor was poorest during the first Cycles period. Furthermore, during the first three Cycles periods when the question was asked, approximately ten, forty, and twenty percent of the responding students were unable to do their usual studying and work because they were sick at least one day. The relation with the ending of winter may also be seen in the responses to the sentence completion question, "About Hampshire, I feel . . .,". 1 Beginning the term with approximately equal numbers of positive and negative comments, the Second period had fewer negative comments, the third period very few positive comments, and the after Spring Recess surveys evidenced an increasingly positive balance.

At the start of the Spring term, students reported involvement in intellectual activities to a great extent, in social and in physical activities to some extent; at the end of the term students reported somewhat less intellectual involvement, somewhat more social involve-



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ment, and about the same physical involvement. Between the fourth and fifth Cycles periods students reported more hours spent playing and relaxing; and less isolation during the fifth period. After the first Cycles period students reported being less energetic, enthusiastic, and trusting. And students reported a decreasing sense of influence over the things that heppened to them before Spring Recess; after Recess they regained their initial February sense of control. Finally, while forty to sixty percent of the students reported some change in their important personal relationships during each Cycles period, during the fifth Cycles period more reported good changes and fewer reported bad changes. (Kegan, 1974a)

With regard to criterion questions, regression analyses examined which variables were correlated with the following; satisfaction with a student's Hampshire (College) experience; evaluation of academic contacts with one's advisor; satisfaction with one's advisor; ratio of course/ total of course and non-course academic credit; and satisfaction with one's housing experience. For each of these 5 questions, the regression equations accounted for 100% of the variance of each dependent variable.

Four variables accounted for 62% of the variance in <u>satisfaction</u> with one's <u>Hampshire (College) experience</u>; a greater proportion of one's total academic effort being put into course work (23%), not feeling isolated from most of the people at Hampshire (16%), sleeping more (13%) and being satisfied with one's academic progress (10%). Current house residence, number of terms at Hampshire and sex have no major impact on satisfaction.



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Three variables accounted for 71% of the variance in positively <u>evaluating the academic contacts</u> with one's advisor; being less satisfied with one's academic progress (31%), meeting with one's advisor (24%) and having been at Hampshire fewer terms (16%).

Three variables account for 82% of the variance in <u>satisfaction</u> <u>wit. one's advisor</u>: being less energetic and enthusiastic (50%), having been at Hampshire fewer terms (18%), and meeting with one's advisor (14%).

Two variables account for 67% of the variance in <u>satisfaction</u> <u>with one's House experience</u>: a greater proportion of one's total academic e fort being put into course work (45%), and liking the people in one's mod/suite (22%). If the course-academic-ratio variable is excluded from the regression equation a different picture emerges. Four variables account for 63% of the variance: liking the people in one's mod/suite (22%), liking one's self (19%), feeling lonely (12%), and spending fewer hours in one's lounge/living room (10%). (An interpretation of this latter constellation is that the non-gregarious, independent person is more satisfied with Hampshire housing. It appears that Hampshire provides a good setting for independent, intellectual activity, but that a broader range of education experiences are not as supported or satisfying.)

Three variables account for 85% of the variance in the ratio of course to total academic effort: putting less effort into non-course academic work (53%), being in residence at Hampshire fewer terms (22%) and sleeping less per night (10%).

In summary, academic factors seem predominately related to overall



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reported satisfaction with the student's Hampshire experience, but social factors--not feeling isolated--also contribute to satisfaction. Advising seems to be more highly evaluated by newer students and by those more needy of advice and counseling--those less satisfied with their academic progress, being less energetic and enthusiastic, meeting more with their advisor, and having been at Hampshire fewer terms. Those putting a larger proportion of their academic effort into course work tend to be newer students and tend to report sleeping less. Finally, reporting a more satisfactory House experience is associated with liking the people in one's mod/suite, with putting a greater proportion of one's totil academic effort into course work, and with being non-gregarious and independent. (Kegan, 1974a)

Three-College Analysis

In order to expand the use of results consistently found at Hampshire College, Cycles was also run by mail at Amherst College (response rate 61%, n = 122) and by phone and mail (response rate 37%, n = 147, Arts and Sciences) at the University of Massachusetts in the Spring of 1975 (Hampshire College response rate 55%, n = 109). In 2-tailed t-tests analyzing the responses from mail and phone surveys at UMass, 15 items differed significantly (p < .05) between the two groups. The more interesting of these results were, phone respondents were more satisfied with academic progress than mail respondents (t = 3.97, df = 456, p < .00), phone respondents were more satisfied with their UMass experience in general (t = 2.18, df = 456, p < .02) and with



their academic experience (t = 2.29, df = 456, p < .02) than the mail respondents. Mail respondents felt more 1 ·ly (t = 4.0, df = 176, p < .00), more isolated (t = -2.29, df = 458, p < .02) and felt that they have less influence over events that happen to them (t = -2.16, df = 456, p < .03) than phone respondents. Finally mail respondents indicated more involvement in intellectual activities (t = -2.50, df = 447, p < .01) and spent more hours per week in academic course work (t = -2.46, df = 442, p < .01) than phone respondents.

Some of these differences can be partially explained by mode of administration, i.e., rapport with phone interviewer, rapidity of interview and by the characteristics of the two samples. Mail respondents are a more volunteer sample in that only volunteers will return the surveys. Response rates for similar phone surveys at UMass are approximately 95%, since fewer than 5% of those contacted refused to respond. Almost twice as many respondents to the mail survey than the phone survey lived off-campus, were transfers or were seniors. These simple demographic differences could account for some of the differences in results.

The majority of the Cycles questions yielded similar answers by mail and by phone survey methods, providing further evidence of the reliability of the instrument under different situations. (Benedict, 1975b)

The results of the mail surveys at Hampshire, Amherst and UMass were investigated using two-tailed t-tests. Table II lists the Cycles variables found common to all three schools and those having signifi-



cant differences (p <.05) between schools.

Insert Table II about here

Hampshire differed significantly from Amherst and UMass by reporting more isolation, more good changes in personal relationships, more non-course academic credit, and a higher ratio of non-course to total academic effort. Amherst reported greater satisfaction with Amherst security system, more trust, more commitment to a working group, and more total academic effort. UMass respondents were less satisfied with their advisors, with their academic programs, and their college experience.

Using a discriminant analysis, 12 variables were found to be major predictors of which college a student attended, satisfaction with advisor, ratio of non-course to total academic effort, external locus of control, course academic effort, ability to create fun, non-course academic effort, involvement in physical activities, satisfaction with college experience, satisfaction with house experience, liking mod/ suite mates and feeling isolated. The first discriminant function accounted for 71% of the trace, while the second accounted for 29%, (Kegan, 1975b)

Insert Table III about here

Insert Table IIIa about here



A factor analysis was performed on the Spring (1975) Cycles data from Hampshire College. The results showed that the first factor accounted for 16% of the variance and 8 factors were necessary to account for 75% of the variance. The factors are described as; 1) energy and fun; 2) non-course academic effort; 3) intellectual involvement and learning; 4) meetings with advisor; 5) physical environment and learning; 6) house satisfaction; 7) advisor satisfaction; 8) social learning; 9) external locus of control; 10) time spent playing; 11) college satisfaction; 12) general program satisfaction; and 13) personal relationship changes. (Kegan, 1975a)

Finally, a brief comparison was made between the Spring (1975) Cycles data at UMass and the condits obtained from running a parallel Cycles at UMass during the Fall of 1975 (Benedict, 1975b). Because of the effects of the economy and budget cuts, several items were hypothesized to have significantly different results. However, only two items showed actual differences. They were; satisfaction with outside environment (t = 2.18, df 242 p <.03, n = 280), and average number of hours slept during the last two weeks (t = 3.21, df 287, p <.001, n = 28). It appeared that the detrimental effects of university budget cuts (if any) had not yet strongly affected students.



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SUMMARY AND CONCLUSIONS

There have been several reasons for collecting and analyzing Cycles data in the variety of ways described. On one level, Cycles data provides quality of life indications for the time at which it is administered. Hampshire College Cycles have established a longitudinal data base for viewing change over time and for measuring relative effects of events on campus. At Amherst College, the data from Cycles (Spring 1975) were used as a baseline from which to evaluate the Fall 1975 instruction of coeducation.

At UMass, where Cycles has continued to be administered, a database is being established. In addition, departments or agencies dealing with a particular subgroup of the student population are comparing results of the subgroup to the total. Cycles is also used to supplement and verify results of the weekly campus telephone surveys, each of which focuses on one campus issue. Probably, the biggest use of the Cycles data at the university has been to highlight areas for further investigation. In particular, based on Cycles Spring 1975 and similar Fall 1975 results, UMass has been following up the issue of student dissatisfaction of advisors.

As mentioned earlier, administering Cycles at several schools had as one purpose, the beginning of a framework from which to view data from one school. While it is still in the initial stages, UMass was able to make use of the framework with regard to the question of "satisfaction with advisor". While the level of satisfaction with advisor



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reported may have appeared low to UMass examiners of data, the perspective of the results from Hampshire and Amherst Colleges was of substantial benefit. This is not to say that the framework will provide an ultimate cutting score for acceptability/non-acceptability of results, but it does give the researcher a comparative sense both of how high, low or average the results are, and of what may be realistic goals.

Studies at Hampshire over the past 2 1/2 years have indicated that students' satisfaction with their academic progress and feelings of isolation were significantly related to students' satisfaction with their college experience. In view of the importance of the feelings of isolation, these three-college data indicating high Hampshire reported isolation.

Some of the contributions of the Amherst College data to the framework raise interesting points for further discussion. Amherst students report having greater commitment to a working group. Some educational research implies that such a commitment is conducive to greater learning (Birney, Grose, Coplin, 1959). Amherst's greater satisfaction with security raises some tri-college questions. How do objective measures of security problems compare across the three colleges, and if objective measures support Amherst's better security, what factors contribute to their better security program? Finally, is the higher trust of Amherst students due to better security or to other factors?

The continued three-college use of the Cycles instruments will



strengthen the data-base each school has established and allow each school to evaluate ongoing programs. Furthermore, each school will be able to compare its results with those produced by the other schools and eventually establish a criterion against which each can judge the success of its efforts toward educating students. These criteria will not be norms, nor will they be arbitrary, indefensible cutting point for judging survey results. Cycles has been shown to be a reliable and practical method for collecting multi-dimensional data on students' "quality c ife". Its usefulness is largely limited or enhanced by the imagination of its researchers.



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APPENDIX

CYCLES SURVEY

TABLES



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Hampshire Cycles Survey

HAMPSHIRE COLLEGE

Office of Institutional · Research and Evaluation

Hello! We're trying to learn more about what living at Hampshire is like: what types of changes occur during the course of a year. We need your help in answering these questions which focus on your experience DURING THE PAST TWO WEEKS. Please complete this Cycles Survey today, and return it to IRE, Prescott House, via college mail. Leave blank inapplicable questions; feel free to add marginal comments.

1. How many times have you met with your advisor in the past two weeks (write number).
2. How many total hours have you met with your advisor in the past two weeks.
3. How would you rate your contacts with your advisor: 1) poor; 2) fair;
3) good; 4) very good; 5) excellent.
4. How satisfied have you been with your advisor: 1) very dissatisfied;
2) dissatisfied; 3) satisfied; 4) very satisfied.
5. How satisfied are you with your academic progress the past two weeks (use codes from Question 4).
6. During the past two weeks, how satisfied have you been with your Hampshire experience (use the codes from Question 4).
7. How satisfied have you been with your House experience (use codes from Question 4).

For questions 8 - 26 use this EXTENT SCALE: 1) to a very little extent; 2) to a little extent; 3) to some extent; 4) to a great extent; 5) to a very great extent.

8.	I have been satisfied with the help provided by my House staff (use EXTENT
9. 10.	SCALE). I feel I have little influence over the things that happen to me. I have been satisfied with the weather and outside environment the past
11. 12.	two weeks. I like myself. During the past two weeks, I have been able to participate in and create fun while completing my necessary work.
	I have usually been energetic and enthusiastic. I have been trusting of people, I have not been cautious or guarded. I have felt lonely during the past two weeks.
$ \begin{array}{r} 16. \\ $	I have felt isolated from most of the people at hampshile. I am satisfied with Hampshire's security program. I have liked the people I live with (my mod/suite) the past two weeks. I have a commitment to a working groupeg. Hampshire Graphics, theater,
-	<pre>xx. During the past two weeks, to what extent have you been involved in the following activities: 20. Intellectual21. Social22. Physical</pre>
=	During the past two weeks, to what extent have you learned in each of these three areas. Also give specific examples of your learnings: 23. Intellectual24. Social25. Physical
26.	To what extent are you satisfied with your average Hampshire course (neither your best nor worse course). 23

27	During the past two weeks, have you experienced any changes in your important personal relationships: 1) very bad; 2) bad; 3) no change; 4) good;
28	During the past two weeks, approximately how many days have you been unable to do your usual studying and work because you were sick.
$-\frac{29}{-30}$. On the average, now many hours have you stept per hight (write number). . In the past two weeks, how much effort have you put into your non-course academic work (independent study, house course, etc.) in hours/week.
$ \frac{31}{32}$	 During the past two weeks, how much effort have you put into your courses in hours per week (include class time). How many hours have you been in your lounge/living room per week.
33	 During the past two weeks, how many hours per week have you spent playing, relaxing. Current residence: 1) Merrill: 2) Dakin: 3) Greenwich: 4) Enfield: 5) Prescott:
	6) off-campus. Noar you arrived at Hampehire: 10 7
$ \begin{array}{c} - 33 \\ - 36 \\ - 37 \\ - 38 \\ -$	 Term you first arrived at Hampshile: 19 7 Term you first arrived at Hampshile: 1) January; 2) Spring; 3) Fall. Number of semesters in residence at Hampshile (not on leave). Primarily associated School: 1) none; 2) HA; 3) LC; 4) NS; 5) SS; two or more Schools, list:
39	. Number of semesters at another college before coming to Hampshire (transfer students write number; non-transfers write zero).
40	. What is your degree of financial aid: 1) none; 2) some; 3) full. . How many Divisional exams have you successfully completed.
42	 Divisional contract filed: 1) in Div I; 2) Div II filed; 3) Div III filed; 4) Div III completed. Your are
49 44 45	. Your sex: 1) male; 2) female. . Are you a member of the Third World: 1) no; 2) yes.
46	. About Hampshire, I feel
47	. Has anything happened to you personally during the past two weeks that's
	been good/bad? (clearly indicate which)
48	• Have you done anything during the past two weeks that you especially like or dislike? (clearly indicate which)
49	. Were there any critical incidents that have happened during the past two weeksthings that may have affected your answers to these questions or were otherwise important to you?
o5	0. Approximate number of minutes you took to complete this survey. 24

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		A.CS)			1 164.1	2 167.0	165.	3 156.	3 158.	. 133.	5 145.	1 152.	4 148.	5 144.	. 165.	2 102. 156	5 147.	3 156.	7 163.	4 110.	2 169.	4 165.	2 160. 7 161	2 157.	4 63.	6 139. -	, 172. 6 131.	6 1jj.	1 173.	4 172. 4 90.	2 168	6 176.	6 166.	2 173.	1 166.	171 8	8 165	69	168	52 12 9	03 81
•		빅	: مد	1.43		.12	2.	1.4	4	4	-1- -	6 i 6	1.5	5 : 1		ar in I	1	-1.4	6.1	.2	-1.9			ب	8.2		• •	4.	-1.0	4. 18.4		1.1	9 -	4	1.1	8	.			4	-10.0
	Ter	1-04)	с. 	110.	.211	.812	.749	.152	.618	. 532	. 346	.002	.086	937		20/-	0617	. 016	240	3 .274	016	10.	910. 1	.050	3 .256	2 .657	2 .820 2 .820	103	0 .482		104. 1	1 .342	0 .700	2 .692	5 .426	1 .061	1 .162	000.0	3 .858	EZO. E	5.000
	Spring	2) - 23	đf	90.81	122.83	129.34	132.15	122.27	12/.55	110.38	133.49	133.21	117.31	133.12	99.58	124.80	135.99	116.65	100.87	85.26	107.57	112.56	123.03	128.3	76.58	79.5	80.3	80.5	105.9(123.00	125.9	0*66	114.6	124.0	123.6	119.4	75.2	105.0	118.4	78.0	70.9
	DVET		ىد	2.61	1.26	.24	.32	1.44	.50	.63	95	3.18	1.73	80	1.25	25.1		-2.44	-1.18	-1.10	-2.45	2.59	2.45	1.98	1.14	45	23	1.65	70	- 54		.95	39	40	.80	1.89	1,41	-18.14	18	2.31	-6.28
	Change	ł	۵.	.025	010.	.154	.670	.277	877.	.836	:343	.007	. JIO	.548	.677	.154	2#1. 817	.392	.420	.472	.086	.092	.686	.285	000.	.877	288.	960.	877.	6 77.	398	160.	.291	.346	.084	.064	.465	000.	.260	.00	000.
	ble 1 -	1 - 53	ĮĮ	83.70	56.38	53.23	60.52	56.35	50.33	53.05	61.59	54.70	59.36	56.67	70.27	59.80	00.00 51 55	54.70	61.45	0E. 9E	82.71	63.86	57.30	69.63	40.00	78.99	57.87 37.82	70.22	72.49	65.78 55.78	55.86	86.92	50.61	64.21	59.85	59.60	76.83	27.00	52.03	77.60	51.00
	티	3	•	-2.28	-2.23	-1.45	43	-1.10	77	.21	96	-2.82	-1.02	.60	.42	1.44	6 . .1	98.	.81	.73	1.74	-1.71	41	-1.08	-6.72	.16	87 1.08	-1.69	.76	.28		-1.71	1.07	95	-1.76	-1.89	73	9.79	-1.14	13.11	8.63
•.		1	<u>م</u>	18 .	.265	.848	.795	£6 † .	.617	.642	.648	.184	.317	.957	.041	.427	. ceo.	6/1. 850.	.452	060.	.112	.005	100.	104.	.256	. 269	.653	.028	.942	.483	177.	.726	626.	.377	.960	.088	.045	000.	E7E.	.762	.155
EGE		5	đ	17.60	52.57	58.56	6 3 .36	74.98	50.42	53.49	58.77	54.73	76.50	57.07	71.38	65.24	58.16	67.26	64.85	48.85	65.24	77.04	63.43	01.8U	76.58	67.32	81.49 48 77	76.98	68.09	61.67	80.2C	83.24	68.01	67.64	68.78	67.11	58.00	00.EE	81.81	69.54	64.93
COLL		3		7.7.	6	- 19	.26	69	23	47	- 46	-1.35	-1.01	.05	-2.08	- 80	-1.7	86.1 2.11	.76	1.73	1.61	-2.89	-3.66	-2.14	-1.14	1.11	3. S	-2.24	.07	71		ñ	08	.89	05	-1.73	-2.05	10.29	.90	.	1.44
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		5		8			8. E	. 1	9.	•	•	÷			.	<u>N</u> !	-	0 E	6	15	8	01	5	22	8	182	187 25	2	.	\$ 2	5 10	-			•	-		-•	•	•	- -
		5	5	6	3 3	_	_	~	3	96	80	8	· · 16		5 5. - 55	30 .92	1/. 0	91. C*	E69. 72	214. 62	89 . 78 4	25 .307	81 .027	24 275 26 275	000. 00	37 .282	787 . 2 7 275. 00	83 .78	85 .64	40.99		99	37	. 15	83	62		62	6	8	- ē
					7 4 7 9	. 64	E 44.5	7.66 20	46.64 31	96°EE E/	80.46 80	EE.2E 19	i. 16.62 61	50 27.73 .5	50 49. 05 .55	10 42.30 .92	1/ 04.14 	01. CP.CP U.	669. 72.64 04	214. 22.12 58	28 47.89 .784	04 38.25 .307	29 42.81 .027	11 33.24 .575	81 22.00 .000	09 49.37 .282	27 40.72 .787 24 38.09 .735	27 32.63 .78	47 49.85 .64	01 48.40 .99	0. W.CC 11 5. 14.14 42	25 45.66 .8	28 47.37	58 44.15 .	49 43.83	75 44.62	0	67 44.62	24 41.92	85 50.00	27 29. M
				41.	1.52 24	.64 74.	E. A4 E2.	7.EE 20.1-	46 49.94	96.66 67	3.08 34.08	61 35.33	39 29.91 .i	60 27.73 .59	.60 49.05	,10 42.30 .92	17. 04.14 12	01. CP.CP 04.1- 07. 84.14 10.	.40 49.27 .693	83 21.23 .415	.28 47.89 .784	1.04 38.25 .307	2.29 42.81 .027	81 44.60 .422 1.11 33.24 .275	-4.81 22.00 .000	-1.09 49.37 .282	27 40.72 .787 - 34 38 00 .735	.27 32.83 .78	.47 49.85 .64	-01 48.40 .99	0. 03.00.00 17.4 2. 14.41 5.	25 45.66 .8	28 47.37	58 44.15	49 43.83	.75 44.62	0	.67 44.62	24 41.92	-2.85 50.00	0 5.27 29.0
	Carine Term		ם ה		1,52 24. 1.5	.749 43.		7.66 20.1- 776.	.487 .46 49.94	.52873 33.96	.145 3.08 34.08	. 74261 35.33			1.487 .60 49.05 .55	1.822 ,10 42.30 .92	91837 41.40 .71 		1.691 .40 49.27 .693	214. 21.23 21.23 .415	1 .912 .28 47.89 .784	0.773 1.04 38.25 .307	7.254 2.29 42.81 .027	275. 92.61 11.1 33.26. 1275	.500 -4.81 22.00 .000	3 .864 -1.09 49.37 .282	1	207 .21 32.83	1 .941 .47 49.85 .64	3.650 .01 48.40 .99	0. 00.66 1/. 6 006. A 6. 14.74 48. 072. A	5 .89925 45.66 .8	2 .65328 47.37	7 .j49 58 44.15 .	0 .59349 43.83	0 .933 .75 44.62	0 .326 0 0	0 .940 .67 44.62	9 .97524 41.92	3 .864 -2.85 50.00	.500 5.27 29.0
	a mer Series Tern	c1 - c3		48.75'.321 .14 3	24.74 .192 1.52 24 42.47 .770 .74 45	.EA 7A. 647. 16.26	47.85 .230 .23 44.3	7.66 20.1- 776. 27.96	44.77 .487 .46 49.94	33.77 .52873 33.96	37.07 .145 3.08 34.08	38.58 .74261 35.33	39.04 .77039 29.91	28.88 .47760 27.73 .55	43.23 .487 .60 49.05 .55	43.03 .822 ,10 42.30 .9 2	71. 04.15 75 818. 41.54 21. 22. 22. 21. 21. 21. 21. 21. 21. 21.	01: 64:64 04:1- 660: 0/:64 76: 384:14 16: 742: 13:24	45.48 .691 .40 49.27 .693	23.24 .78363 21.23 .415	44.98 .912 .28 47.89 .784	44.70 .773 1.04 38.25 .307	38.97 .254 2.29 42.81 .027	275, 32.55 1.11 33.26 .275	0 .500 -4.81 22.00 .000	' 38.43 . 864 -1.09 49.37 .282	38.31 .99127 40.72 .767 257 - 31 80 85 75	29.95 .207 .27 32.83 .78	* 46.11 .941 .47 49.85 .64	148.03 .650 .01 48.40 .99	0. 00.66 1/. 6 000. 0 2. 14.74 42. 072. 46.74 5	1 48.55 .89925 45.66 .8	. 12.72 .65328 47.37) 44.07 .34 958 44.15 .	i 48.60 .59349 43.83	8 45.30 .933 .75 44.62	3 29.00 .326 0 0	39.60 .940 .67 44.62	3 44.99 .97524 41.92	7 38.43 .864 -2.85 50.00	0 .500 5.27 29.01
	Channel and Carline Terr	c2 - c3	t df p t	1.00 48.75' .321 .14 3	22 23.1 291. 47.42 40.1- 24 47. 017. 74.24	.64 74. 647. 16.56 56.	-1.22 47.85 .230 .23 44.3	7.55 39.1- 775. 39.73	70 44.77 .487 .46 49.94		-1.49 37.07 .14 5 3.08 34.0 8	33 38.58 .74261 35.33	29 39.04 .77039 29.91 .1	.72 28.88 .47760 27.73 .55	.70 43.23 .487 .60 49.05 .55	23 43.03 .822 ,10 42.30 .9 2	71. 04.14 - 19.8 37 41.40 - 71.	01: 64:64 04:1- 600: 0/:64 46:1)[[: 34:14 16: 742: 12:54 21:1-	40 45.48 .691 .40 49.27 .693	28 23.24 .78363 21.23	.11 44.98 .912 .28 47.89 .784	29 44.70 .773 1.04 38.25 .307	-1.16 38.97 .254 2.29 42.81 .027	278. 0048 10 623. 02.58 12.1 	0 0 .500 -4.81 22.00 .000	-,17 38.43 .864 -1.09 49.37 .282		1.29 29.95 .207 .27 32.83 .78	.07 46.11 .941 .47 49.85 .64	46 48.03 .650 .01 48.40 .99	0. 00.66 1/.6- 000. 0 0 0 2. 14.54 42. 072. 46.54 21.1-		. 45 43.72 .65328 47.37	.60 44.07 .34958 44.15 .	.54 48. 60 .59349 43.83	08 45.30 .933 .75 44.62	1.00 29.00 .326 0 0	.08 39.60 .940 .67 44.62	.03 44.99 .97524 41.92	17 38.43 .864 -2.85 50.00	0 0 500 5.27 29.04
	tio 1 - Channess Amor Carlas Term		P t df P t	.342 1.00 48.75' .321 .14 3	2040 - 29 42.47 770 24 24 24 25 24 24 25 24 24 25 24 25 24 25 24 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25	.EA 7A. 047. 16.25 26. 850.	.538 -1.22 47.85 .230 .23 44.3	7.62 .0.1- 776. 29.99.7.	.84470 44.77 .487 .46 49.94	.582 .64 33.77 .52873 33.96	.046 -1.49 37.07 .145 3.08 34.08	.92233 38.58 .74261 35.33	.49629 39.04 .77039 29.91 .1	.019 .72 28.88 .47760 27.73 .55	.265 .70 43.23 .487 .60 49.05 .55	.05023 43.03 .822 ,10 42.30 .92		01: C4:54 04:1- 400: 07:54 46:1 /21. 75: 24:54 16: 242: 12:54 21:1- 669.		.55728 23.24 .78383 21.23 .415	.530 .11 44.98 .912 .28 47.89 .784	.98129 44.70 .773 1.04 38.25 .307	.138 -1.16 38.97 .254 2.29 42.81 .027	.425 1.11 42.50 .23561 44.00 .422 47486 33.57 .395 1.11 33.24 .275		.68517 38.43 .864 -1.09 49.37 .282			.988 .07 46.11 .941 .47 49.85 .64	.18346 48.03 .650 .01 48.40 .99	0, 00.66 1.17 000, 0 0 0 000, 0 5. 14.74 42, 072, 270, 24, 41, 5		. 75.4 4.2 .65328 47.37		.152 .54 48.60 .59349 43.83	.38108 45.30 .933 .75 44.62	1.600 1.00 29.00 .326 0 0	.557 .08 39.60 .940 .67 44.62	.137 .03 44.99 .97524 41.92	.68517 38.43 .864 -2.85 50.00	.560 0 0 .500 5.27 29.04
	antio 1 - Change Ameri Carlas Terr	$\frac{1}{1} - \frac{1}{1} - \frac{1}$	d b t d p t	55.63 .342 1.00 48.75' .321 .14 3	56.97 .501 -1.54 24.74 .192 1.52 24 55.00 .040 .29 42.47 .770 .74 45	53.41 .036 .52 35.31 .749 .47 43.	53.21 .538 -1.22 47.85 .230 .23 44.3	55.80 .702 .89 39.72 .377 -1.02 33.7	52.54 .64470 44.77 .487 .46 49.94	36.88 .562 .64 3 3.77 .52873 33.96	44.69 .046 -1.49 37.07 .145 3.08 34.08	53.18 .92233 38.58 .74261 35.33	51.68 .49629 39.04 .77039 29.91 .1	51.01 .019 .72 28.88 .47760 27.73 .5 5	55.00 .265 .7 0 43. 23 .487 .60 49.05 .55	53.18 .05023 43.03 .822 ,10 42.30 .9 2	42.10 .006 .10 42.14 .91837 41.40 .71	47.05 121 121 142.51 07.51 42.1 121 121 121 121 121 121 121 121 121	34.95 .95640 45.48 .691 .40 49.27 .693	38.87 .55728 23.24 .78363 21.23 .415	45.84 .530 .11 44.98 .912 .28 47.89 .784	52.20 .98129 44.70 .773 1.04 38.25 .3 07	53.64 .138 -1.16 38.97 .254 2.29 42.81 .027	43.66 425 1.21 42.30 .23301 44.00 .422 xx xm x7x 8 6 33.57 .395 1.11 33.26 .275	0 .500 0 0 .500 -4.81 22.00 .000	54.39 .68517 38.43 .864 -1.09 49.37 .282	52.47 .334 .01 38.31 .99127 40.72 .787 	21.89 .255 1.29 29.95 .207 .27 32.83 .78	58.18 .988 .07 46.11 .941 .47 49.85 .64	55.41 .18346 48.03 .650 .01 48.40 .99	0 0.500 0 0.500 0 0.500 0 0.500 0 0.500 0 0.500 0 0.500 0 0.500 0 0.500 0 0.500 0 0.500 0 0.500 0 0.500 0 0.500	50.12 .326 .13 48.55 .89925 45.66 .8	52.95 .353 .45 43.72 .65328 47.37 ·	58.07 .11 .60 44.07 .34958 44.15 .	56.86 .152 .54 48.60 .59349 43.83	58.88 .38108 45.30 .933 .75 44.62	36.00 1.600 1.00 29.00 .326 0 0	37.57 .55 7 .08 39.60 .940 .67 44.62	55.56 .137 .03 44.99 .97524 41.92	54.39 .68517 38.43 .864 -2.85 50.00	0 .560 0 0 .500 5.27 29.04
	and a former and a former	$c_1 - c_2 \qquad c_2 - c_3$	t di p t di p t	96 55.63 .342 1.00 48.75' .321 .14 3	66 56.97 .501 -1.34 24.74 .192 1.52 24 1.10 55.00 .040 .29 42.47 .770 .74 45	.EA 7A. 047. 15.35 55. 960. 14.62 51.1	.62 53.21 .538 -1.22 47.85 .230 .23 44.3	36 55.80 .702 .89 39.72 .377 -1.02 33.7	20 52.54 .84470 44.77 .487 .46 49.94	.55 36.88 .5 62 .64 33.77 .52873 33.96	2.06 44.89 .04 6 -1.49 37.07 .145 3.08 34.08	10 53.18 .92233 38.58 .74261 35.33	.68 51.68 .49629 39.04 .77039 29.91 .1	.23 51.01 .619 .72 28.88 .47760 27.73 .55	1.13 55.00 .265 .70 43.23 .487 .60 49.05 .55	2.00 53.18 .05023 43.03 .822 ,10 42.30 .92	2.88 42.10 .006 .10 42.14 .91837 41.40 .71	101: 59:59 09:1- 600: 07:54 46:1 121: 80:54 47:00: 10: - 40 53:53 5631 -11:14 42:51 -247 -91 41:48 -376	.06 54.95 95640 45.48 .691 .40 49.27 .693		63 45.84 .530 .11 44.98 .912 .28 47.89 .784	.02 52.20 .98129 44.70 .773 1.04 38.25 .307	1.51 53.84 .138 -1.16 38.97 .254 2.29 42.81 .027	. 51 43.66 .4 25 1.11 42.30 .20561 44.00 .422 4.9 44 4.74 86 33.57 .395 1.11 33.24 .275	0 0 .500 0 0 .500 -4.81 22.00 .000	.41 54.39 .68517 38.43 .864 -1.09 49.37 .282	96 52.47 .334 .01 38.31 .99127 40.72 .767 		-01 58.18 .988 .07 46.11 .941 .47 49.85 .64	1.35 55.41 .18346 48.03 .650 .01 48.40 .99	0 0 .500 0 0 .500 0 0 .51 .51 .51 .51 .50 .54 .54 .5		. 16.14 82 653. 21.64 24. 25. 353 - 28	1.62 58.07 .11 .60 44.07 .54958 44.15 .			0 38.00 1.660 1.00 29.00 .326 0 0	59 37.57 .557 .08 39.60 .940 .67 44.62	1.51 55.56 .137 .03 44.99 .97524 41.92	.41 54.39 .68517 38.43 .864 -2.85 50.00	0 0 2500 0 0 500 5.27 29.04
	2		t df p t df p t	96 55.63 .342 1.00 48.75' .321 .14 3	-2.10 55.00 .040 -12 24 24.14 .192 1.52 24 -2 -2 -10 55.00 .040 -2 42 -42 -2 -10 55.00 -040 -25 -20 -24 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2	-2.12 53.41 .036 .51 32 35.31 .64 .	.62 53.21 .538 -1.22 47.85 .230 .23 44.5	34 55.80 .702 .89 39.72 .377 -1.02 33.7	20 52.54 .84470 44.77 .487 .46 49.94	.55 36.88 .582 .64 33. 77 .52873 33.96	-2.06 44.69 .046 -1.49 37.07 .145 3.08 34.08	10 53.18 .92233 38.58 .74261 35.33	.68 51.68 .49629 39.04 .77039 29.91 .1	.23 51.01 .019 .72 28.88 .47760 27.73 .55	1.13 55.00 .265 .70 43.23 .487 .60 49.05 .55	2.00 53.18 .05023 43.03 .822 ,10 42.30 .92	2.88 42.10 .006 .10 42.14 .91837 41.40 .71		.06 54.95 .95640 45.48 .691 .40 49.27 .693	.59 38.87 .557 -28 23.24 .78383 21.23 .415	63 45.84 .530 .11 44.98 .912 .28 47.89 .784	.02 52.20 .98129 44.70 .773 1.04 38.25 .307	1.51 53.64 .138 -1.16 38.97 .254 2.29 42.81 .027	224. 00.44 10 00.2 12.1 22.1 12.1 42.0 10.4 10. 12.2 12.4 12.2 12.5 12.5 12.5 12.5 12.5 12.5 12.5	0 0 .500 0 0 .500 -4.81 22.00 .000	.41 54.39 .68517 38.43 .864 -1.09 49.37 .282			01 58.18 .988 .07 46.11 .941 .47 49.85 .64	1.35 55.41 .18346 48.03 .650 .01 48.40 .99	v: vv:te 1/.te vve: v v v v000, 0 0 0 vv 2. 14.14 42. 0220 220 24.14 23		. 94 52.95 353 .45 43.72 .65328 47.37 ·	-1.62 58.07 .11 .60 44.07 .34958 44.15 .			0 38.00 1.630 1.00 29.00 .326 0 0	59 37.57 .557 .08 39.60 .940 .67 44.62	-1.51 55.56 .137 .03 44.99 .97524 41.92	.41 54.39 .68517 38.43 .864 -2.85 50.00	0 0 0 2560 0 0 2500 5.27 29.04

HAMPSHIRE COLLEGE

TABLE I

N SCIOOLS. ATHERST UTASS-CAS HC-AC SHIRS Ξ	N SCHOOLS. AMHERST UMASS-GAS HC-AC HC-AC HC-AC HC-AC SHURK Σ	N SCIIOLS. AMBRENT UMASS-CAS HC-AC	N SCHOLS. ANHERST UNASS-CAS HC-AC
Scinols. AMERST UNASS-CAS HC-AC II 1.22 122 1.3 1.07 -1.55 12 1 1.22 122 1.3 1.07 -1.55 12 1 1.22 122 1.1 1.22 1.23 1.07 -1.55 12 1 1.22 122 1.1 1.22 1.3 1.07 -1.55 12 1 1.22 122 3.1 1.27 1.3 1.07 -1.55 12 1 1.27 122 3.1 0.76 0.17 2.3 0.77 -1.3 46 1.1 1.14 1.10 2.7 1.01 -7.3 46 -7.44 56 -7.9 57 57	Scinols. Attensis Utass-cas Hc-Ac	Scinons. Avents rest UNASS-CAS IIC-AC	Scittors. Anterst UMASS-CAS IIC-AC BIC-AC BIC-AC <th< th=""></th<>
S. ATHERST UMASS-CAS HC-AC 20 \underline{n} $\underline{\Sigma}$ \underline{D} $\underline{\Sigma}$ \underline{D} $\underline{\Gamma}$ \underline{E}	S. AMBRST UTASS-CAS HC-AC	S. AMIRST UMASS-CAS HC-AC HC-AC HC-AC HC-AC 22 122 11 1.07 -1.55 12 -1.55 12 22 122 1.1 1.07 -1.55 12 -1.44 -66 79 122 1.1 1.07 -1.44 -66 -1.44 -66 79 122 1.1 1.07 -1.53 0.99 -2.55 -99 3.26 0.99 -2.56 7.48 0.00 79 122 3.1 0.77 1.102 -1.44 -66 0.00 79 122 3.1 1.27 1.01 -7.9 0.25 0.99 -2.55 0.09 -2.66 0.99 0.26 0.99 0.26 0.99 0.26 0.99 0.26 0.99 0.26 0.99 0.26 0.99 0.26 0.99 0.26 0.99 0.26 0.99 0.00	S. AMERST UNSS-CAS HC-AC E- R L S. C-UMSS AC-UMSS A
AMIERST WASS-CAS HC-AC 22 1.3 1.07 2 2 2 2 122 1.3 1.07 2 2 1 1 2 1 122 1.1 1.07 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1	\square <td>AMIERST UTASS-CAS HC-AC HC-AC HC-UMASS \square Σ Σ</td> <td>π SD π SD π SD π π</td>	AMIERST UTASS-CAS HC-AC HC-AC HC-UMASS \square Σ	π SD π SD π SD π
ERST WASS-CAS HC-AC \times ΣD Δ ΣD E E \cdot 107 \cdot ΣD E E E \cdot 1102 \cdot ΣD -446 666 \cdot 1102 \cdot 20 -446 666 \cdot 0.76 117 2.3 0.97 -73 466 \cdot 0.70 146 2.6 0.89 -74 666 \cdot 0.70 146 2.6 0.89 -73 466 \cdot 0.71 146 2.6 0.89 -1.61 1.1 0.71 146 2.6 0.89 1.61 1.1 1.1 0.71 146 2.6 1.01 -73 466 0.79 0.71 146 2.7 1.01 2.7 1.01 -73 466 0.71 1.13 1.21 1.21 1.21 -73 1.60 <	ERST UMASS-CAS HC-AC HC-AC HC-UMA 3 1.07 \times 2D $-$ 2 $ -$ <t< td=""><td>ERST UMASS-CAS HC-AC HC-AC HC-MCS </td><td>ERST UNASS-CAS HC-AC E. L. <thl.< th=""> <thl.< th=""></thl.<></thl.<></td></t<>	ERST UMASS-CAS HC-AC HC-AC HC-MCS	ERST UNASS-CAS HC-AC E. L. L. <thl.< th=""> <thl.< th=""></thl.<></thl.<>
SD \square Σ SD \square Σ Σ \Box	SD \square SD E	SD \square <td>SD \square \square</td>	SD \square
Increase case HC-AC \Box Σ ΣD E E \Box Σ DD -1.55 12 117 $\Sigma.3$ 0.97 -73 666 146 2.6 0.89 -73 666 146 2.6 0.84 -73 46 146 2.7 1.01 -73 46 146 2.6 0.84 -73 46 146 2.7 1.01 -73 46 145 2.9 1.12 -73 46 145 2.9 1.12 -1.48 14 145 2.9 1.12 -1.48 14 145 2.9 1.12 -1.48 14 145 2.9 1.12 -1.61 11 145 2.9 1.09 -73 0.09 144 3.0 1.126 1.24 1.26 0.11 145 2.9 1.01	Increase Hc-AC Hc-AC Hc-UNM Increase Σ	D. MASS-CAS HC-AC HC-AC HC-UTASS D \times ΣD E E E E 117 2.3 0.97 44 66 79 43 00 146 2.6 0.89 26 79 3.26 00 146 2.76 0.89 26 79 3.26 00 146 2.76 0.89 26 79 3.26 00 146 2.77 1.01 73 46 1.64 00 146 3.2 1.01 1.39 1.7 1.01 26 2.94 00 147 3.2 1.01 1.39 1.7 1.05 2.57 00 146 3.2 1.00 1.61 1.1 1.27 0.01 146 3.2 1.01 1.61 1.1 1.27 0.10 146	\square
SS-CAS HC-AC S2-CAS $HC-AC$ S2 SD E P 22.6 0.89 -73 43 22.6 0.89 -26 79 22.6 0.89 -26 79 22.6 0.84 -73 46 23.5 1.12 -73 46 33.8 0.86 -1.61 11 3.1 1.09 -3.94 00 3.1 1.09 -3.94 00 3.1 1.01 -73 46 2.9 1.12 -1.48 14 2.1 1.01 -1.73 46 2.1 1.01 -7.3 46 2.1 1.12 -1.61 11 2.1 1.12 -1.61 11 2.1 1.12 -2.6 79 3.1 1.09 0.51 0.05 2.1 1.12 -1.26 0.94 2.1 1.126 <td>SS-CAS HC-AC HC-AC HC-UMM S2-CAS SD Σ Σ<td>SS-CAS HC-AC HC-AC HC-UMASS \times 2D L P L P 2.6 0.89 .79 .43 .00 2.6 0.89 .53 .60 7.48 .00 2.6 0.89 .53 .60 7.48 .00 2.6 0.89 .54 .59 3.56 .00 2.7 1.01 -3.94 .00 -7.48 .00 2.7 1.01 -3.94 .00 -7.48 .00 2.7 1.01 -3.94 .00 -7.46 .10 3.5 1.12 -7.73 .46 1.64 .10 2.7 1.01 -3.94 .00 .06 .95 3.12 1.01 -1.17 .24 1.64 .10 2.7 1.13 -1.14 .14 1.83 .01 3.11 1.24 1.26 .17 .16 .10 2.7 1.13 .14 .16 .17 .16 3.0</td><td>S5-CAS HC-AC HC-MCAS HC-UMASS AC-UMASS Σ Σ Σ Σ Σ Σ Σ 2.3 0.97 -1.55 1.2 -444 66 79 3.28 2.5 0.97 -53 60 7.48 00 7.22 2.6 0.89 -73 46 1.64 10 7.22 2.6 0.89 -73 46 1.64 10 7.22 2.8 1.21 -73 46 1.64 10 7.22 2.8 1.21 -73 46 1.00 2.36 5.30 2.9 1.01 1.21 -1.39 117 -64 100 2.55 2.9 1.01 1.27 1.27 1.27 2.31 3.03 2.9 1.01 1.27 1.46 1.00 2.55 5.30 2.9 0.88 1.21 1.14 1.84 1.83 1.19 2.9</td></td>	SS-CAS HC-AC HC-AC HC-UMM S2-CAS SD Σ <td>SS-CAS HC-AC HC-AC HC-UMASS \times 2D L P L P 2.6 0.89 .79 .43 .00 2.6 0.89 .53 .60 7.48 .00 2.6 0.89 .53 .60 7.48 .00 2.6 0.89 .54 .59 3.56 .00 2.7 1.01 -3.94 .00 -7.48 .00 2.7 1.01 -3.94 .00 -7.48 .00 2.7 1.01 -3.94 .00 -7.46 .10 3.5 1.12 -7.73 .46 1.64 .10 2.7 1.01 -3.94 .00 .06 .95 3.12 1.01 -1.17 .24 1.64 .10 2.7 1.13 -1.14 .14 1.83 .01 3.11 1.24 1.26 .17 .16 .10 2.7 1.13 .14 .16 .17 .16 3.0</td> <td>S5-CAS HC-AC HC-MCAS HC-UMASS AC-UMASS Σ Σ Σ Σ Σ Σ Σ 2.3 0.97 -1.55 1.2 -444 66 79 3.28 2.5 0.97 -53 60 7.48 00 7.22 2.6 0.89 -73 46 1.64 10 7.22 2.6 0.89 -73 46 1.64 10 7.22 2.8 1.21 -73 46 1.64 10 7.22 2.8 1.21 -73 46 1.00 2.36 5.30 2.9 1.01 1.21 -1.39 117 -64 100 2.55 2.9 1.01 1.27 1.27 1.27 2.31 3.03 2.9 1.01 1.27 1.46 1.00 2.55 5.30 2.9 0.88 1.21 1.14 1.84 1.83 1.19 2.9</td>	SS-CAS HC-AC HC-AC HC-UMASS \times 2D L P L P 2.6 0.89 .79 .43 .00 2.6 0.89 .53 .60 7.48 .00 2.6 0.89 .53 .60 7.48 .00 2.6 0.89 .54 .59 3.56 .00 2.7 1.01 -3.94 .00 -7.48 .00 2.7 1.01 -3.94 .00 -7.48 .00 2.7 1.01 -3.94 .00 -7.46 .10 3.5 1.12 -7.73 .46 1.64 .10 2.7 1.01 -3.94 .00 .06 .95 3.12 1.01 -1.17 .24 1.64 .10 2.7 1.13 -1.14 .14 1.83 .01 3.11 1.24 1.26 .17 .16 .10 2.7 1.13 .14 .16 .17 .16 3.0	S5-CAS HC-AC HC-MCAS HC-UMASS AC-UMASS Σ Σ Σ Σ Σ Σ Σ 2.3 0.97 -1.55 1.2 -444 66 79 3.28 2.5 0.97 -53 60 7.48 00 7.22 2.6 0.89 -73 46 1.64 10 7.22 2.6 0.89 -73 46 1.64 10 7.22 2.8 1.21 -73 46 1.64 10 7.22 2.8 1.21 -73 46 1.00 2.36 5.30 2.9 1.01 1.21 -1.39 117 -64 100 2.55 2.9 1.01 1.27 1.27 1.27 2.31 3.03 2.9 1.01 1.27 1.46 1.00 2.55 5.30 2.9 0.88 1.21 1.14 1.84 1.83 1.19 2.9
SD E P. SD E -1.55 -1.25 -1.55 -1.44 666 0.89 -53 600 0.84 -79 43 0.84 -79 43 0.84 -79 43 0.86 -79 43 0.101 -73 46 1.01 -73 46 1.121 -73 46 1.121 -73 46 1.121 -73 46 1.121 -73 46 1.121 -1.48 14 1.126 -1.61 11 1.126 -1.61 11 1.126 -1.61 11 1.126 -1.61 11 1.126 -1.28 06 1.120 -1.28 06 1.120 -2.140 06 1.111 02	SD E <td>SD E E<td>SD E RC-MC RC-UMASS AC-UMASS AC-UMASS -1.55 1.2 -1.56 0.0 7.22 26 0.84 79 $.54$ 5.9 3.52 0.00 3.80 0.84 73 $.46$ 1.64 1.0 2.55 0.0 3.80 0.101 -7.73 $.46$ 1.64 0.0 2.55 0.0 2.55 1.112 -7.73 $.46$ 1.64 0.0 2.55 0.0 1.112 -7.73 $.46$ 1.64 0.0 2.55 0.0 1.112 -1.148 1.14 1.14 1.27 2.12 1.121 -1.148 1.14 1.164 0.0 2.554 0.1 1.122 -2.16</td></td>	SD E <td>SD E RC-MC RC-UMASS AC-UMASS AC-UMASS -1.55 1.2 -1.56 0.0 7.22 26 0.84 79 $.54$ 5.9 3.52 0.00 3.80 0.84 73 $.46$ 1.64 1.0 2.55 0.0 3.80 0.101 -7.73 $.46$ 1.64 0.0 2.55 0.0 2.55 1.112 -7.73 $.46$ 1.64 0.0 2.55 0.0 1.112 -7.73 $.46$ 1.64 0.0 2.55 0.0 1.112 -1.148 1.14 1.14 1.27 2.12 1.121 -1.148 1.14 1.164 0.0 2.554 0.1 1.122 -2.16</td>	SD E RC-MC RC-UMASS AC-UMASS AC-UMASS -1.55 1.2 -1.55 1.2 -1.55 1.2 -1.55 1.2 -1.55 1.2 -1.55 1.2 -1.55 1.2 -1.56 0.0 7.22 26 0.84 79 $.54$ 5.9 3.52 0.00 3.80 0.84 73 $.46$ 1.64 1.0 2.55 0.0 3.80 0.101 -7.73 $.46$ 1.64 0.0 2.55 0.0 2.55 1.112 -7.73 $.46$ 1.64 0.0 2.55 0.0 1.112 -7.73 $.46$ 1.64 0.0 2.55 0.0 1.112 -1.148 1.14 1.14 1.27 2.12 1.121 -1.148 1.14 1.164 0.0 2.554 0.1 1.122 -2.16
HC-AC -444 -1.55 -444 -54 -54 -54 -54 -79 -79 -54 -1.25 -1.29 -1.19 -1.19 -1.19 -1.19 -1.19 -1.19 -1.19 -1.17 -1.24 -1.17 -2.05 00 -1.19 -1.17 -1.24 -1.17 -2.05 00 -2.05 -1.11 -2.05 -1.12 -1.24 -1.17 -2.05 -1.19 -2.05 -2.53 -2.05 -2.53 -2.05 -2.53 -2.00 -5.74 -000 -5.	HC-AC HC-MC-UMM L L 2 L L - L -44 .66 .79 .43 .53 .60 7.48 -54 .59 3.52 -54 .59 3.52 -7.48 .14 1.64 -5.02 .0080 -1.17 .24 1.64 -1.19 .058489 1.09 .05 2.54 -1.19 .0080 .20 8489 1.2720 .20 8489 1.2729 -2.05 .04 1.28 .2129 .2129 .2120 .2121 .23 .00215 .2.15	HC-AC HC-UMASS E P E E -1.55 12 -44 66 .79 43 53 60 7.48 00 -53 66 79 3.26 00 -394 00 -79 3.26 00 -139 17 -4.64 00 -139 17 -4.64 00 -502 00 -4.64 00 -1017 24 11 127 21 -1.61 11 1.27 21 11 -1.17 24 1.06 95 00 -1.61 11 1.27 21 11 -1.61 11 1.27 21 11 -1.17 24 1.06 95 00 -1.18 1.14 1.83 07 11 -205 04 1.28 25 01 -2111 92 -61 25 11 -213 21 1.12 21 21 <t< td=""><td>HC-AC HC-UMASS AC-UMASS AC-UMASS E E E E E E -444 66 79 43 00 7.22 -53 60 7.48 00 7.22 -54 59 3.26 00 3.86 -773 46 1.64 .00 7.22 -54 59 3.52 .00 3.86 -139 .17 -4.64 .00 7.28 -139 .17 -4.64 .00 2.55 -1.39 .17 -4.64 .00 2.55 -1.48 .14 1.83 .07 3.38 -1.17 .24 1.64 .10 2.55 -1.48 .14 1.83 .07 3.38 -1.17 .24 1.83 .07 3.38 -1.19 .25 .01 2.54 .01 1.92 .11 .25 .10 2.55</td></t<>	HC-AC HC-UMASS AC-UMASS AC-UMASS E E E E E E -444 66 79 43 00 7.22 -53 60 7.48 00 7.22 -54 59 3.26 00 3.86 -773 46 1.64 .00 7.22 -54 59 3.52 .00 3.86 -139 .17 -4.64 .00 7.28 -139 .17 -4.64 .00 2.55 -1.39 .17 -4.64 .00 2.55 -1.48 .14 1.83 .07 3.38 -1.17 .24 1.64 .10 2.55 -1.48 .14 1.83 .07 3.38 -1.17 .24 1.83 .07 3.38 -1.19 .25 .01 2.54 .01 1.92 .11 .25 .10 2.55
P P P P P P P P P P P P P P	P. H.C-UMAN 112 112 112 112 112 12 112 143 112 166 129 1.64 111 1.27 111 1.27 114 1.64 117 -4.64 118 1.64 111 1.27 111 1.27 114 1.83 124 1.64 125 1.64 126 1.64 127 1.14 128 -2.55 128 -1.65 128 -1.28 .00 -2.57 .01 -2.61 .02 -2.61 .128 -1.22 .128 -1.22 .128 -1.22 .128 -1.22 .000 -2.15 .01 -2.15 .02 -2.15 .13 .26 .13 .26 .13 .26	P. L. L.MASS 112 112 112 2.66 113 2.60 114 3.26 117 -4.64 111 1.27 114 1.83 114 1.83 114 1.83 114 1.83 118 00 .00 -80 .11 1.27 .12 .21 .14 1.83 .05 2.54 .06 -80 .11 1.28 .05 2.54 .06 .95 .07 .164 .084 -88 .033 .07 .04 1.28 .05 2.55 .06 2.08 .44 .00 .01 -68 .02 .110 .12 .12 .136 .16 .144 .00 .01 .136 .02 .136 .	P. E. L. AC-UMASS AC-UMASS 112 12 12 12 666 7.48 00 7.22 79 3.26 00 7.22 79 3.25 00 7.22 79 3.25 00 7.23 17 -4.64 00 7.25 00 -4.64 00 2.55 01 1.64 10 2.55 01 1.64 10 2.55 00 -4.64 00 -3.28 01 1.27 21 3.03 11 1.27 21 3.03 11 1.27 21 3.03 00 -4.64 00 -3.28 .01 1.27 21 1.19 .02 2.54 01 2.51 .03 2.54 01 2.52 .04 1.42 2.51 1.19 .05 2.54 01 2.52 .04 1.28 .06 1.43
	HC-UMA HC-UMA 1.27 1.48 1.27 1.28 1.27 1.27 1.28 1.27 1.28 1.28 1.28 1.28 1.28 1.28 1.28 1.28	HC-UMASS L P.	HC-UMASS AC-UMASS E P - - 7.48 00 7.22 3.26 00 7.22 3.26 00 7.22 3.52 00 7.22 3.52 00 3.80 3.52 00 2.86 1.64 10 2.55 0.6 95 5.30 1.83 07 3.38 1.64 .10 2.55 .06 .95 5.30 1.83 .07 3.38 1.64 .10 2.55 .06 .95 5.30 1.28 .201 .51 2.54 .01 .51 2.54 .01 .51 2.55 .01 .51 2.55 .01 .51 2.55 .01 .51 2.55 .01 .51 1.42 .15 .14 2.55 .03 .56 1.43 .06 1.43

	WILKS LAMBDA	SIG CHANGE RAO'S V	STANDARDIZED FUNCTION 1	COEFFICIENTS FUNCTION 2
VO4 satisfied with advisor	0.745	0.000	0.899	-0.069
V48 ratio noncourse:total acad effort	0.669	0.000	0.036	0.158
V09 external locus of control	0.628	0.000	-0.409	-0.203
V31 course academic effort hrs/wk	0.599	0.000	0.127	-0.622
Vl2 able participate, create fun	0.582	0.001	0.197	-0.207
V30 non-course acad. effort hrs/wk	0.569	0.004	0.269	0.330
V22 physical activity involvement	0.557	0.004	-0.256	-0.113
VO7 satisfied with house experience	0.544	0.001	0.353	-0.233
V18 liked mod/suite mates	0.523	0.000	-0.317	0.246
Vl6 felt isolated	0.515	0.014	0.252	0.038
VO6 satisfied with college experience	0.508	0.032	0.154	0.148
VI7 satisfied with security	0.502	0.061	0.114	-0.172
VII like self	0.497	0.095	0.049	-0.203
V19 commitment to working group	0.493	0.177	0.055	-0.216
V27 changes, personal relationships	0.489	0.145	-0.121	0.271
V20 intellectual activity involvement	0.486	0.180	-0.162	0.089
V29 hours slept per night	0.483	0.226	-0.112	0.102
V14 been trusing	0.481	0.296	-0.086	-0.130
V21 social activity involvement	0.478	0.294	0.103	0.022
V25 physical learning	0.478	0.569	0.026	0.179
V24 social learning	0.477	0.564	0.029	-0.127
V15 felt lonely	0.476	0.638	-0.050	0.081
V26 satisfied with average college course	0.475	0.714	o.006	0.096
V23 intellectual learning	0.475	0.822	0.042	-0.067
VO5 satisfied with academic progress	0.475	0.953	0.014	0.032

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TABLE III: NONDEMOGRAPHIC DISCRIMINANT ANALYSIS

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TABLE III

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TABLE IIIA: DISCRIMINANT PREDICTION RESULTS

		PREDIC	TED GROUP	MEMBERSHIP	
NONDEMOGRAPHIC QUEST		別	AC	UMASS	CORRFT PREDICTION
НС	103	64	21	18	62%
AC	117	23	77	17	66%
NN	139	15	20	104	75%
	x ² =196.9	p<0.000			68%
DEMOGRAPHIC QUESTIONS	S				-
HC	103	43	37	23	42%
AC	117	29	72	16	62%
M	139	38	43	58	42%
	x ² =35.7	p<0.000			
BOTH SETS OF QUESTIO	· SN				-
нс	103	70	21	12	68%
AC	117	18	87	12	74%
WN	139	11	18	110	79%
	$x^2 = 272.1$	p<0.000			74%

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Developing and Using Quality of Life Indicators--The Cycles Survey

PAULA NASSIF ROYER, University of Massachusetts, Amherst * DANIEL KEGAN, Hampshire College

The problems of developing a low cost, quality institutional research program capable of longitudinal research, continuous broad bandwidth monitoring and data comparisons with other institutions, led to the development of the Cycles Survey as an initial set of student quality of life indicators. Cycles is a multidimensional survey instrument with behavioral and non-behavioral questions. Test-retest reliabilities range from 0.50 to 1.00. Cycles has been used to investigate short-term changes in key monitoring variables over the course of a term, to measure annual changes in quality of life for all students and for specific subgroupings such as freshmen or women. In addition to establishing data baselines, Cycles can be used to link norm-referenced and criterion-based evaluations.

*Now at National Evaluation Systems, Inc., Amherst, Mass. 01002

