CORRELATES OF ACADEMIC ATTRITION

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INTRODUCTION

It has become increasingly evident that the problem of academic mortality among college students merits research attention. Wolfle, et al (32) demonstrated that there is currently a severe shortage of college trained people, and it appears likely that this deficiency will continue for at least another decade. On the other hand, Berdie (2) found that only about half of the high school graduates who appeared to be good college prospects actually attended college. Clearly, one reason for the circumstance which Wolfle describes is to be found in Berdie's report.

Obviously, the need for more college graduates could be met if ways could be found to increase the number of qualified high school graduates attending college. This solution would involve a marked increase in the already over-taxed capacities of universities and colleges to provide higher education.

An alternative approach would be to graduate a higher percentage of college students than is current practice. This could be done by lowering academic standards - an academically unpopular and probably self-defeating measure - or by "salvaging" a greater percentage of qualified students who do not graduate.

If the "salvaging" process is going to be successful there will need to be a better understanding of the conditions and correlates of unsuccessful college work by academically qualified students. There are a multitude of personal and situational factors which may be associated with premature termination of college studies.

It is conceivable that a number of qualified students may withdraw because of certain conditions at the institution which could realistically

be changed. For example, better housing facilities, restricted electives, etc. On the other hand, some may withdraw because they have personal characteristics such as poor study habits or mild behavior disorders, which tend to inhibit academic progress. Once identified, such characteristics may be modified; others may be practically unmodifiable. In the former case, colleges may institute remedial programs. In the latter, they may conceivably set new admission standards.

Apart from the considerations of societal need and the college's training capacities, academic mortality has serious implications for the individual student. It is often with a great deal of lost pride and decrease in self-confidence that many students return to their families and friends (Iffert, 13). The psychological consequences of failure in an academic institution have not received systematic attention from research workers but casual observation and limited research would suggest that they are considerable in many cases (Quarles, 24).

Clearly, it would be advantageous to students, college administrators, and to society in general if the academic mortality rate could be reduced. Granted that a large proportion of attrition cases represent low ability students who were unable to compete intellectually, it seems likely that a significant number of ability-qualified students also fall by the way-side (Stagner, 25). It is to this general problem that this study is addressed.

REVIEW OF LITERATURE

A number of studies have been done on factors related to student mortality. Nearly all of them have concluded that the causes of student mortality are numerous and complex. Several of these studies have employed

a questionnaire as a follow-up technique for getting information concerning the dropout students (4, 6, 13, 17, 18). In none of these studies has the percent of questionnaire returns been large enough to validly infer that the results were representative of the entire attrition population.

Nevertheless, several studies have consistantly reported six reasons for withdrawal (18, 19, 20, 24). In order of importance these were: (1) failure in college work, (2) lack of finances, (3) lack of interest, (4) illness, (5) disciplinary dismissal, and (6) needed at home.

It is not surprising that failure in college work ranks first among reasons for withdrawal (6, 14, 16, 18, 19, 20, 21, 31). Several studies (3, 16, 26) have suggested that one of the most likely reasons for failure is limited academic ability.

However, in almost all the studies some low ability students were successful and some high ability students failed in college work or dropped out for some other reason.

Most of the studies that investigated the factors related to academic attrition did not control the ability factor. Findings from such studies may not be reliable because the differences in ability were confounded with other differences. Arnholter (1), for instance, studied the difference between persisting and attrition high school students on two personality tests (The California Mental Health Analysis and The Rotter Incomplete Sentence Blank). She concluded that the dropouts were less well adjusted than the persisters. Stewart and Roberts (27) studied differences between attrition and persisting students on the Kuder Preference Record at George Peabody College for Teachers. They found the latter scoring higher on outdoor and mechanical interests, whereas the former scored higher on persuasive and clerical interests. Herriott (12) studied attitudinal

differences between persisters and dropouts using five custom-made attitude scales. He found that those students who persisted tended to score higher than did the withdrawees on evaluative and persevering attitudes, and lower on the attitude of self-confidence.

The United States Office of Education reported an extensive study in this area (18). They found that withdrawees and persisters differed on a number of factors. A higher percentage of older students (20 years vs. 17 years) withdrew from college. Moreover, a larger percentage of the students whose homes were farther away from school, and who did not live in Greek houses, withdrew.

Several studies have been made on the differences between attrition and persisting students in regard to background factors (1, 5, 8, 15, 17 22, 28, 30). In general, these studies have pointed out that withdrawees tended to come from below average size families in which the parents had high school educations. In addition, in a substantial number of cases the family was of rather low economic status.

In none of the above studies was the factor of scholastic aptitude held constant. This appears to be a serious error insofar as one might logically expect a relationship between scholastic ability and many of the factors reported to be associated with academic attrition. For example, it has been shown that sons of professional men score higher on scholastic aptitude tests than do sons of laboring men (29).

Only two studies were found in which an attempt was made to equate the attrition and persisting students on the factor of scholastic aptitude. Griffiths (10) studied the personality differences between freshman men who persisted at Ohio State University and those who were on scholastic probation. In order to study these differences he equated the persisters

Examination scores. Then, by comparing the scores which the students in these two groups received on the Bell Adjustment Inventory he found that there were no significant personality differences, according to this measure, between those students who were academically successful and those who were not.

Another study in which the persisting and attrition students were equated on ability scores was done by Fullmer (9). The measure of ability which he used was the American Council on Education Psychological Examination. He found that there was no significant difference between the two groups in regard to grade point averages. There was, however, a tendency for the students in the persisting group to have changed majors more frequently than dropouts.

From this review of literature, it is clear that the general conclusion regarding the number and complexity of factors related to student mortality is justified. In addition to the factor of academic ability, the literature review does suggest that the students in the attrition and persisting groups could differ on a number of other factors. Six studies (1, 3, 14, 20, 24, 25) have suggested possible personality differences. Another (27) suggested differences in vocational interests. A number (5, 15, 17, 20, 22, 28, 30) indicated certain background differences which were related to attrition; another (12) suggested attitudinal differences. As has been pointed out, these studies have been found lacking in terms of experimental sophistication.

Therefore, the suggestions gleaned from this review of literature must be considered to be highly tentative.

Problem

Even though the suggestions found in the review of literature must be considered to be highly tentative, they were accepted as a starting point for the present study. Formally, the problem under investigation was the identification of psychological and sociological characteristics related to academic attrition among ability-qualified freshman men at Kansas State College.

PROCEDURE

Sample

The sample used for the study was drawn from a group of 219 Kansas State College male freshmen who had withdrawn from college at or before the end of their first semester. This study was concerned with personal characteristics other than low ability associated with student withdrawal. Therefore, only those students in the schools of Agriculture and Arts and Science who had a raw score of 95 or higher on the American Council on Education Psychological Examination were used. For the school of Engineering and Architecture, only those students who made a raw score of 33 or above on the Pre-Engineering Aptitude Test were selected for study. These cut-off points were chosen because students who made such scores would be "expected" (statistically) to earn grade point averages of 1.0 or higher. (The overall grade point average required for graduation is only 0.7.) A total of 54 students (24.7 percent) of the original group were found to have scores at or above the cut-off points.

A comparison group of 54 persisting male freshmen was selected at random after two conditions had been met. First, the persisting student

had to have been enrolled in the same school as his attrition mate. Second, the two students (one dropout, one persister) had to have identical scholastic aptitude test scores.

Characteristics Studied

It was convenient to group the data on which persisting and attrition students were compared into four categories. These categories were personality, background, vocational interests, and attitudes and values. The measures used were not designed especially for this study, but rather were those available from the freshman orientation testing program. Thus, only limited aspects of each of the four areas could be investigated.

Personal Preference Schedule (P.P.S.). Definitions of the fifteen needs which it purports to measure are included in Appendix A. This is a test which was devised for the purpose of measuring the relative strengths of psychological needs. There also is a consistency score which is an indicator of how consistent the student was in his answers to the test questions.

The motivational orientation of this test, together with its careful development (particularly in the matter of overcoming the tendency of subjects to over-choose socially desirable responses), make it a particularly appealing device for an investigation of this kind.

The background factors were measured by the <u>Biographical Information</u>

<u>Inventory (BII)</u> - a locally devised questionnaire containing questions about personal history, attitudes, and values. A copy of this instrument is included in Appendix A.

Vocational interests were measured by the Strong Vocational Interest

Blank for Men. This test is composed of questions about interests which

are generally possessed by men in particular occupations. Two types of scores are provided - occupational and non-occupational. The former include scores on 45 specific occupations. These occupations are grouped into seven major occupational groupings, and four single-occupation groups. Each of the seven groups had previously been judged by Counseling Center counselors as to whether it was a primary, secondary, tertiary, reject, or no pattern. It was these judgments, rather than specific occupational scores, which were employed in this study.

Exact scores were used for the three non-occupational keys -- Interest

Maturity (IM), Occupational Level (OL), and Masculinity - Femininity (MF).

The first represents the degree to which one's interests correspond to

15 year old boys as opposed to 25 year old men; the second describes the

degree of similarity to business and professional men as opposed to

unskilled laborers; and the third provides a rating on the degree to which

the individual's likes and dislikes correspond to those of men as opposed

to women.

Vocational values were measured by the <u>Choosing An Occupation</u>

Questionnaire -- a locally devised instrument which requires the ranking of 12 vocational values (Advancement, Security, Prestige, etc.). A copy of this instrument is also included in Appendix A.

Statistical Analysis

Where there was a reason to expect possible school differences, the data were analyzed separately by school before being pooled to test for over-all differences between persisting and attrition groups. The groups were compared statistically by using the <u>t</u> test or, where appropriate (i.e., where the data were discrete or non-normal) by the Chi-square technique.

It was decided to call differences statistically significant at the 5 per cent level of probability "significant" differences, and differences which were statistically significant at the 10 per cent level "trends".

The number of students in the equated groups differed in the various phases of this study because not all of them took every test. When the results on a given measure were unavailable for a given student, that student and his control were both eliminated from that aspect of the study.

RESULTS AND DISCUSSION

As noted earlier, it was convenient to group the findings of the study into four broad categories -- those relating to differences in personality characteristics, in background, in interests, and in attitudes and values. Results under each of these categories are presented and discussed below.

Personality

Scores on the PPS for 48 pairs of attrition and persisting groups were available. Table 1 presents the major findings of this analysis.

Table 1. Comparison of attrition and persisting groups on the Edwards Personal Preference Schedule

Need		Attritic	-	:	Persistin	-	:	t
		Mean	s.d.		Mean	s.d.		
Achievement	BIT WENNING TO THE LAST.	14.9	4.3		15.2	4.4		.421
Deference		12.9	3.7		13.3	3.7		.445
Order		10.9	3.6		10.5	4.4		.527
Exhibition		13.8	3.9		14.0	5.5		.191
Autonomy		14.1	4.3		12.6	5.0		1.657*
Affiliation		16.3	4.4		15.3	4.1		1.158

Table 1. (Cont'd)

Need	N =	on Group	Persistin	_	. t
Mood .	Mean	s.d.	Mean	s.d.	
Intraception	13.7	4.8	15.3	4.3	1.725*
Succorance	9.9	4.9	11.1	4.6	1.256
Dominance	14.4	4.9	15.2	5.0	.842
Abasement	15.0	4.1	16.9	4.2	2.224*
Nurturance	15.6	4.8	15.0	3.8	.613
Change	15.3	4.6	13.3	4.8	2.142*
Endurance	15.2	6.1	15.2	5.5	•000
Heterosexuality	15.7	7.5	14.6	6.4	.774
Aggression	11.9	4.3	11.6	3.6	•335
Consistency	10.8	2.1	10.8	2.5	.089

^{*}p .10

Two significant differences were found (p<.05). Persisters averaged significantly higher on the need for abasement, while the attrition group scored higher on the need for change. In addition, trends (p<.10) were found on needs for autonomy and intraception, with the attrition group scoring higher on the former and lower on the latter.

The fact that students who persisted in college scored higher on the need for abasement may be interpreted as indicating that they were better able to accept criticism and blame than were the students who withdrew. Higher autonomy scores by the attrition group may indicate stronger desires for independence from college and its rules and regulations. One might hypothesize that, as a group, the attrition students were somewhat more rebellious and given to projection, while the persisting students were more mature.

The notion might be advanced, in regard to the withdrawees scoring

higher on the need for change, that perhaps they found school too humdrum, routine, and lacking in variety. If this characteristic can be interpreted as indicating some restlessness on the part of the dropouts, one might infer tendencies toward impulsivity on their part. Higher intraception scores on the part of the persisters may support this interpretation, insofar as intraception is associated with an analytical thoughtfulness.

At best, these are speculations. Even for these four variables, mean differences were small and standard deviations were relatively large.

Thus, while some statement about group differences is possible, and suggestive interpretations can be made, nothing about the personality of the individual withdrawee or persister can be said. A pattern analysis, in which various combinations of needs were studied, might prove illuminating.

Background

A number of background factors to which the students had responded on the Biographical Information Inventory were studied in an attempt to find out if there were any differences between the attrition and persisting groups.

The factors studied were:

- 1. Age
- 2. Veteran status
- 3. Population of home town
- 4. Influence of high school background on college achievement
- 5. Number of seniors in high school graduating class
- 6. Father's education
- 7. Mother's education

No significant differences or trends were indicated by the data. (Tables 7, 8, 9, 10, 11, 12, and 13 in Appendix B). The median age for the students in both the persisting and attrition groups was 18. (Table 7 in Appendix B). Some interesting tendencies (not statistically significant) were noted. There was a slight tendency for the withdrawees to be from either towns of less than 1,000 or cities over 10,000, whereas the persisters tended to be from towns of intermediate size (Table 8 in Appendix B). Moreover, there was a tendency for the students who persisted to believe more things in their high school background influenced their college achievement positively (Table 9 in Appendix B). There was a slight tendency for more dropouts to have come from high schools where the number of seniors was less than 50 (26 attrition students versus 19 persisters) (Table 10 in Appendix B). The adjustment from high school to college may have been more difficult for these students (24). The differences in parental education and in veteran status were extremely small. (Appendix B, Tables 11, 12, and 13).

Background factors investigated in this study seemed to be relatively independent of group classification (attrition or persisting). But to say background is unimportant would be unrealistic for two reasons. First, only a limited amount of background data was examined. Second, as in the case of personality characteristics, only group trends were tested; it seems likely that a more thorough research into individual background patterns would produce more positive results.

Interests

Scores on the Strong Vocational Interest Blank were available for 47 pairs of subjects. Comparisons were made on both occupational and

non-occupational interests.

Occupational Interests. The frequency of occurrence of primary, secondary, tertiary, reject or no patterns on each of the seven major interest groups was tabulated. Since one would logically expect students enrolled in different schools to have different interests, attrition and persisting subjects enrolled in the same school were compared. The Chisquare test of statistical significance was employed.

No differences were found between dropouts and persisters in terms of their occupational interests. The data from which this conclusion was drawn are summarized in Table 14 in Appendix B.

The number of cases within each school was so small that the negative finding should be regarded as tentative. It would appear safe to conclude that the occupational groups of the SVIB had very little, if any, power to discriminate between persisters and dropouts as defined in this study.

Table 2. Scores on the Occupational Level Scale for groups of persisting and attrition students.

					G	roup				1
School	:	N	:	Attri Mean		:	Persi Mean	_	:	t
Agriculture		11		43.8	5.7		48.4	3.4		2.2**
Arts and Science		21		48.3	4.5		48.7	5.8		0.3
Engineering		15		46.7	5.6		47.8	3.9		0.6
Total		47		46.7	5.4		48.4	4.6		1.5

^{**}p < .05

Non-Occupational Interests. Table 2 presents the results obtained on the Occupational Level Scale. While persisters averaged higher than

dropouts in all three schools, the difference was significant only in the school of Agriculture. The magnitude of the difference was so slight in the schools of Arts and Science and Engineering that, despite this consistency, combining the groups led to acceptance of the null hypothesis.

The tendency for the persisters to score higher on the O.L. key is in agreement with the findings of several other studies (11, 16, 23).

Table 3. Scores on the Masculinity-Femininity Scale for groups of persisting and attrition students

				G	roup			4	
	-		Attri	tion	9	Persi	sting		
School :	N	:	Mean	s.d.	:	Mean	s.d.	:	t
Agriculture	11		56.6	5.2	and the second s	52.4	6.0	nazzo Arouadatos del Petr Minuco	1.7*
Arts and Science	21		52.1	7.6		47.6	8.7		1.8*
Engineering	15		55.8	6.0		55.6	7.1		0.1
Total	47		54.3	6.8		51.3	8.3		1.9*

^{*}p < .10

Scale. No significant difference (p < .05) was found when the students in the attrition and persisting groups were compared by school. However, a significant difference was found when the schools were pooled. Those students who withdrew scored higher than those who persisted. Two trends were found when comparison was made by schools. Those students in the attrition group scored higher on the M-F scale than did those who persisted in the schools of Agriculture and Arts and Science.

When the students in the attrition and persisting groups were compared on the Interest Maturity Scale, a slight but not statistically significant

tendency was found for the students in the persisting group to score higher than the withdrawees. Refer to Table 15 in Appendix B.

Results on the non-occupational scales of the SVIB are often discussed under the topic of "personality" rather than "interests" (cf. Darley and Hagenah (7)). While the differences reported here were not large, they do suggest tendencies on the part of the persisting group to identify somewhat more closely with professional (as opposed to laboring) men and to be somewhat more feminine (cultured? broad?) in their likes and dislikes. Further study of these characteristics would probably be rewarding.

Attitudes and Values

As noted earlier, there were two sources of information regarding the attitudes and values of the subjects. One was the Choosing an Occupation questionnaire, in which the students placed in rank order 12 different "vocational values". (Advancement, security, salary, prestige, etc.) Since this questionnaire was distributed 9 weeks after classes started, results from it were available for only 32 pairs of subjects. The other source of information was the Biographical Information Inventory (BII) results of which were available for 47 pairs on 4 of the measures and 45 on the remaining 3 measures.

For the most part, persisting and attrition students were homogeneous with regard to their vocational values. Refer to Table 16 in Appendix B. Only one trend was found -- on the vocational value of "Prestige".

Table 4 describes this finding.

Importance of "Prestige" in the vocational planning of persisting and attrition students

							R	anki	ng							
Group	:	1, 2,	or	3	:	4	-	9	•	10,	11,	or	12	:		
Persisting	12 Nov. 10 Nov.	2				*****	18	5			1	5		N	=	32
Attrition		0					2	3				9		N	-	32

From Table 4, it is apparent that persisters tended to rate prestige as less important than did the attrition group. However, two persisters placed this value in one of the first three ranks, whereas none of the attrition group rated it that highly. Such an inconsistency may mean that strong feelings regarding this value, regardless of their direction, are associated with persistence. Alternatively, it may simply be reflecting chance fluctuations in the ratings. Further study of this variable is needed to clarify the interpretation of this finding.

A variety of attitudes and values were studied from the BII. (a) 22 fairly general attitudes toward school and life in general (see pp. 4 and 5 of the BII included in Appendix A); (b) educational goals in college; (c) perceived attitude of parents toward vocational goal: (d) perceived chances of graduating from college; (e) matters the student had changed his feelings toward; (f) matters he was still deciding about; and (g) number of things liked about previous school experiences.

Again, for the most part, the two groups were homogeneous with respect to these attitudes. Refer to Tables 17, 18, 19, 20, 21, and 22 in Appendix B. Only two trends were found. (a) On the statement "At least half of a student's college courses should be electives (not required courses)", the persisting group tended to be uncertain, whereas the dropout group both agreed and disagreed more frequently. This finding is presented in Table 5.

Table 5. Responses of the students in the attrition and persisting groups to the statement "At least half of a student's courses should be electives (not required) courses".

Group :		Disa	gree	Resp		Agr	66	· To	tal
		No.	%	No.	%	No.	%	No.	%
Attrition		26	55	9	19	12	26	47	100
Persisting		18	38	19	40	10	21	47	100

The other trend was found in regard to the number of matters the students were still deciding about. The students in the attrition group tended to still be deciding about more things. These results are shown in Table 6.

Table 6. Responses of the students in the attrition and persisting groups in regard to the number of matters about which they were still deciding

					Numbe	er of	Matter	s Still	Decid:	ing		
			0		1	L	2	.3	4 to	9	To	tal
Group	:	No.	%	1	No.	%	: No.	%:	No.	% :	No.	%
Persistin	g	14	30		12	26	18	38	3	6	47	100
Attrition		18	38		10	21	9	19	10	21	47	100

From Tables 5 and 6, it is clear that these trends did not represent clear-cut findings. For the present, it seems safest to assume that these differences represent chance fluctuations, but more extensive study at a later date may establish these trends with more certainty.

In summary, it appears that, in terms of the attitudes and values assessed in this study, the two groups were very similar. All differences found were statistically non-significant, and thus, highly tenatative.

As in the case of personality, interest, and background factors, the study of group differences in attitudes and values was relatively unproductive and may have covered up some of the individual differences.

IMPLICATIONS

It is abundantly clear that the attrition and persisting groups were not separated effectively on the basis of the variables considered in this study. Why might this be so?

One reason would be that the groups really didn't differ, that is, that persistence in or withdrawal from college are "chance" determined behaviors. This explanation is hardly sensible; what is "chance" other than the sum of our ignorances? Three alternative types of explanations occur-a faulty sample, limited measurement, and/or an ineffective method.

Regarding the first, a faulty sample, it will be recalled that the groups were defined on the basis of whether or not the students registered for second semester classes. If so, the student was called a persister; if not, he was labeled an attrition student. It seems likely that many errors of classification occurred in the process. Some "attrition" students may have temporarily interrupted their training because of illness or finances; others may have enrolled in other colleges. Similarly, it is likely that a number of "persisters" will become "attrition" cases before four years have passed. Productive study of the sociological-psychological characteristics which differentiate dropouts from persisters requires a more careful definition of these groups than that provided in this study.

It is seldom that data collected for one purpose can serve well other purposes. The various measures utilized in this study were collected for

two main purposes: (a) to assist counselors and advisors in working with individual students; (b) to describe the general characteristics of the freshman class at Kansas State. These purposes overlap, but are not identical with the purpose of the present study. Questionnaires and inventories especially devised to investigate the problem of attrition among ability-qualified students would be helpful.

Finally, the complexity of the problem raises questions as to how it might most profitably be investigated. The search for mean differences, required by the design herein employed, implies hypotheses concerning the "type" who withdraw as opposed to the "type" who persist. Common sense and psychological experimentation argue against this "type" concept, and statisticians have agreed by pointing out how the mean often conceals more than it reveals. Conceivably, a more fruitful approach at this time might be a relatively intensive clincal study of individual dropouts and persisters. Such a study might well suggest patterns of characteristics predictive of future academic behavior. At the very least, it could provide a framework for developing the measurement devices discussed previously, and for developing hypotheses concerning the dynamics of persistence and withdrawal.

SUMMARY AND CONCLUSIONS

The major goal of this study was to examine the relationship of a number of personal and situational factors to college withdrawal among ability-qualified freshman men at Kansas State College.

A sample of 54 male students was taken from a group of 219 freshmen who had withdrawn from college at or before the end of their first semester. Since this study was concerned with dropouts who appeared to

be qualified for college work on the basis of scholastic aptitude, only those students whose test scores predicted first year grades of 1.0 or higher were included.

A comparison group of 54 persisting male freshmen was selected at random after two conditions had been met. First, the persisting student had to have enrolled in the same school as his attrition mate. Second, the two students (one dropout, one persister) had to have identical aptitude test scores.

The data on which the persisting and attrition students were compared was grouped into four categories. These were personality, background, vocational interests, and attitudes and values.

Assessment devices included the Edwards PPS, Strong VIB, and two locally devised questionnaires designed to collect information on students' background, attitudes, and values.

The following conclusions appear warrented when they are considered within the limits of the sample used:

- 1. The persisters averaged significantly higher on the personality need for abasement, while the students in the attrition group scored higher on the need for change.
- 2. Trends were found on needs for autonomy and intraception, with the students in the attrition group scoring higher than the persisters on the former and lower on the latter.
- 3. Background factors investigated seemed to be relatively independent of group classification (attrition and persisting).
- 4. No differences of any consequence were found when the persisting and attrition groups were compared on vocational interests. However, the persisters scored higher on the Occupational Level key and lower on the

Masculinity-Femininity measure than did the withdrawees.

- 5. Measures of attitudes and values failed, in general, to separate the two groups. Three isolated and inconsistent trends were found.
 - 6. Several suggestions for further research were discussed.

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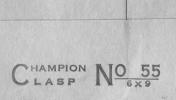
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APPENDICES

APPENDIX A



Need Definition List

Ach (Achievement): To be known as an authority on something, to accomplish something of significance, to be able to do things better than others.

Def (Deference): To get suggestions from others, to follow the leadership of others, to do what is expected of you.

Ord (Order): To like order, to aim for perfection in detail, to have things planned and organized.

Exh (Exhibition): To be the center of attention, to make an impression, to have an audience.

Aut (Autonomy): To be free to do what you want, to defy convention, to be critical of authority.

Aff (Affiliation): To make many friends, to form strong personal attachments, to do things with friends rather than alone.

Int (Intraception): To analyze oneself or other people, to understand why people behave as they do, to predict how others will act.

Suc (Succerance): To want encouragement, have others interested in your problems, receive affection from others.

Dom (Dominance): To dominate others, to be a leader, to influence others, to make decisions.

Aba (Abasement) To accept blame when things go wrong, to feel guilty when one does something wrong, to avoid personal conflicts.

Nur (Nurturance): To be helpful to others, to encourage others, to be affectionate toward others, to sympathize with others.

Chg (Change): To do new and different things, to try a number of different jobs, to participate in new fads, to travel.

End (Endurance): To persist, to keep at a task until it is completed, to put in long hours of uninterrupted work.

Het (Heterosexuality): To date, to be interested in the opposite sex, to engage in social activities with the opposite sex.

Agg (Aggression) To be critical of others, to attack contrary points of view, to "get even" with others, to tell others what one thinks of them.

BIOGRAPHICAL INFORMATION INVENTORY

Student Counseling Center

Kansas State College

PLEASE PRINT				Date		
Name			Sex	xMarital	Status	
Last	First	Middle	Initial			
Curriculum		AgeYea	rs Montl	Veteran Ye	s or no	Branch of service
Home Address	*		Nu	mber of senio	rs in your	
Manhattan Address	-		hig	sh school grad	uating clas	SS
Father's Name			Father's Ag	geFather	's Occupa	tion
Mother's Name			Mother's A	ge	_	
Mother's present o	ccupation		_Mother's	Occupation be	ore Marri	iage
Parents' Marital St	tatus:					
	Living Toge	ether		Father Dece	ased	
-	Divorced			Mother Dece		
	Separated (Crede Se	hool	(Wigh S	abool) (Co	llere	
Father's Education	1 2 3 4 5				ollege) . Jr. S	r.
36 (1) 37 1 (1	1 0 0 4 5	Control of the second s	The second secon	rade complete		
Mother's Education	1 2 3 4 5	6 7 8	9 10 11	12 Fr. So	. or. s.	r.
Other members in					n while	
Brothe	rs & Sisters	Age	Year	s in School	Presen	t Occupation
		_				
						î
demonstration was the control of the						
Visite and account of the subset of the subs					-	
	*					
Curriculum Choice				AND STORY OF THE STATE AND STORY		
How certain	n are you of this c		2 3 4 5 ry uncertai			one)
Vocational goal				Santa de la companya		
How certain	n are you of this?		2 3 4 5	n) (verv c		

What is your parents' attitud	de toward your vocational goal? (check appropriate statement.)
They suggested it	
They want it more	e than I do
They helped me p They left it pretty	olan it.
They left it pretty	much up to me.
They had other pr	references but came around to my way of thinking.
They want me to	references but came around to my way of thinking. go to college but would rather I chose another curriculum.
They are rather of	opposed to my going to college.
	three major job duties in the vocation you have chosen:
(Example: Supervising	others, writing reports, performing technical analyses.)
1	
*	
2	
3.	
List the major influences wh	
	r does this kind of work, and from what I've seen him do, it seems
like somethi	ing I want. 2. I worked part-time for a man engaged in this work,
and it seeme	ed interesting. 3. I've heard there were many opportunities in that
field, etc.)	
and the state of t	
NAMES OF THE OWNER, AND THE OWNER,	
· ·	
What will you do if you are u	insuccessful in finishing college?

What do you think your	chances of graduating from	college are? (check one)					
Less th	an 1 chance out of 10		, x				
1 out of	10	6 out of 10					
2 out of	10	7 out of 10					
3 out of		8 out of 10					
4 out of		9 out of 10					
5 out of		10 out of 10					
-	as a job similar to the one yo						
Relative	е	No one					
Friend		Have no definite type of position in mind.					
How do you plan to finan	nce your college program?	(check appropriate statements)					
My own	savings	G. I. Bill					
Parents	3	Earn per cent of	expenses by				
Summer	r work	part-time work while it Scholarship					
	if you feel it will have no ef	nus" (-) before those which will fect, write a zero (0) in the blace	nk.				
Mathem	atics	Orientation to college					
Study H	abits	Information about jobs					
Reading		Philosophy of life					
Concent	ration	Teacher methods					
Extra-c	curricular activities	Athletics					
Interest	in learning	Size of school					
reaction to each reason	by placing an X in the appropriate around the most important	posing the job that they have. I priate column. After you have reason. (Imp. = Important, No.	marked each				
Imp. Not Imp. H.C.							
	Salary is high.						
The second secon	Good security - not like	ly to be laid off.					
	Work is challenging.						
	Work is important to m	v philosophy of life.					
- Indiana in the second	Job commands respect						
	Work is interesting.						
	Work is helpful to other	· a					
	Work demands some sp						
Company and Compan	Opportunities for advan						
	Shortage of qualified wo						
Company Compan	There is much variety i						
discussion and analytical and a second	Most positions are arou						
The state of the s	Most positions are in m						
	can be my own boss (o	r relatively independent).					

People change from time to			
	전대 그 네트워크의 기의 게임이 있습니다. 그래요 하는 기계 하는 그리고 있는데 하는 데 그리고 있다.	. N. 18 - A. C. C. M. 1401 - TANGETING MINN, C. 741, C. S. C. C. C. 140 - C. 3	ge his mind about. Place a
			have at some time in the past. f your opinion hasn't changed.
leave the space blank.	igs you are suit trying t	decide about. In	your opinion hash t changed,
Dating	Republicans	Music	Dancing
Religion	Democrats	Art	Petting
Studying	Smoking	Sports	Honesty
Work I'd like	Drinking	Literature	Money
	ctivity list below, place ch aspect you disliked.	a "plus" (+) befor	nings have you liked and dise e each aspect that you liked before each aspect about
Homework		Association	with teachers
Outside reading		Tests	
Themes or repor	rts	School activi	ities (sports, newspaper,
Discussions (rec	itations)	clubs, etc.)	
Lectures	_	Memory wor	·k
Studying	9685	Social life	
Listed below are a number which you agree, a "minus" upon which you are undecide	(-) beside those with w		us" (+) beside those with , and a zero (0) beside those
A person should interesting.	nalified to do college wo work as hard at somethi he lives of college stude	ng that is unintere	ty to go to college. esting as at something that is
	et more out of college if		ills himself.
At least half of a		es should be elect	ives (not required courses).
	e taught in public school		
The best college ful function.	courses are those that t	each one how to p	erform some specific, use-
	s over with a counselor	s a sign of weakn	ess.
			ear of study has been com-
Anyone who tries	hard enough can get a c	college education.	
	on needs a college educa		be successful.
College graduate	s are happier than non-c	ollege graduates.	
	dents should get the bes		
College professor	rs are not generally ver	y practical.	
The second secon	ould cheat on a test if he re to college than studyi		

Students with poor high school records shou A person shouldn't be made to do things tha If a student does not attend class regularly, Athletic scholarships are justified.	t are not interesting to him.
If you argue with a college professor, you s	simply show your ignorance.
The following list includes different things that people Number them in order of their importance to you. Plaimportant, "2" before that which is next important, and	ace a "1" before the thing that is most
Skill to earn a living.	
Better understanding of myself.	
Better understanding of the world in whi	ch I live.
New friends.	
More social experience.	
Business and social contacts.	
We are interested in the various places you may have starting from the time you were born.	lived. Please list these and the dates,
Place	<u>Date</u>
For each of the following statements, if you <u>agree</u> with true about you), cross out the \underline{T} in front of the number generally true about you, cross out the \underline{F} before the number	c. If you disagree and feel that it is not
T F 1. I participated in four or more activities in	high school (athletics, plays, school

- paper, etc.)
- F 2. The members of my family are frequently too curious about my personal affairs.
- F 3. I earn most of my own spending money.
- 4. I have worked most of every summer for the last four summers.
- 5. I can deal with an actual situation better than I can cope with general ideas and T F theories.
- T F 6. My parents and I live in different worlds, as far as ideas are concerned.
- T F 7. I enjoy an intimate conversation with one person more than a general converstaion with several.
- F 8. I would rather know than do.
- T F 9. I am interested in a person's behavior more than in his inner life.

- T F 10. I have had complete responsibility for a day or two while my employer was away from work.
- T F 11. My parents sometimes criticize me unjustly.
- T F 12. I am interested in business and financial problems of the day.
- T F 13. I usually see things as a whole and am apt to disregard minor details.
- T F 14. I have several times had opportunity to make speeches before groups of people.
- T F 15. I am a practical person interested in tangible achievement.
- T F 16. I have traveled in more than four states.
- T F 17. I dislike everything that has to do with money buying, selling, and bargaining.
- T F 18. My parents frequently find fault with my conduct.
- T F 19. I have visited at least five cities of more than 50,000 population.
- T F 20. I feel I know a great deal about my own motives and feelings.
- T F 21. I am rather detached and impersonal in my dealings with other people.
- T F 22. I like being in the thick of action.
- T F 23. I would rather write a fine book than be an important public figure.
- T F 24. I have had considerable experience writing reports.
- T F 25. My parents have certain personal habits that frequently irritate me.
- T F 26. I feel that a person's life should be the full expression of his innermost self.
- T F 27. My anticipations remain with the realm of the probable, i.e., they are based on past experience.
- T F 28. I would rather take an active part in contemporary events than read and think about them.
- T F 29. I like above all to discuss general questions scientific or philosophical with my friends.
- T F 30. I have attended at least one state or national meeting of an organization to which I belong.
- T F 31. I like to play cards.
- T F 32. My father is pretty close to an ideal father.
- T F 33. I would rather grow inwardly and achieve balance and fullness of experience than win success in practical affairs.
- T F 34. I like to do things with my hands; manual labor, manipulation or construction.
- T F 35. I believe that science offers as good a guide to the future as there is.
- T F 36. I am apt to see an underlying or symbolic meaning in the stories I read.
- T F 37. I like to associate with people who take life emotionally.

T	F	38.	My relations with other people ar	e simple and uncomplicated.
Т	F	39 .	I have participated in school plays	S.
Т	F	40.	My parents expect too much of me	9.
Т	F	41.	I have had some experience teach	ing children.
Т	F	42.	My head is full of ideas clamouring	ng to be expressed.
Т	F	43.	I am quite conventional in my beh	avior.
Т	F	44.	It is easier for me to deal with coideas about man or nature.	encrete facts in one special field than with general
Т	F	45 .	I feel things deeply and personally	, and am sensitive to the deeper feelings of others.
T	F	46.	I have been an officer in at least f	our organizations or classes.
Г	F	47.	My teachers seem to depend upon	me.
Г	F	48.	I am familiar with Robert's Rules	of Order.
Г	F	49.	I have been a county, district, or	state officer in an organization to which I belong.
Г	F		I have had considerable experience	
Abo	out	how 1	many books were in your home?	
Abo	out	how 1	many books have you read in your	lifetime (other than text books)?
Wh	at k	kind o		ime reading? Number the following in the order of
			Mystery	History
			Science Fiction	Novels
			Biography Travel	Social issues (non-fiction) Science
Abo	out	how o	often did your parents read to you	before you began school?
			Almost never	Once or twice a week
			Occasionally	Almost every day
	at d	lo you	consider to be the two major pro	blems in the world today?
	2.			
		_	did you begin dating?ntly do you date? (i.e. once a wee	k, once a month, etc.)

About how many times have you appl	ied for a job during your lifetime?	
Check any of the following occupation	ns in which you have <u>relatives</u> or <u>frie</u>	ends.
Certified Public Accountant	Foreign Missionary	Life Insurance Sales-
Lawyer	Minister	man
Dentist	Federal Government Service	Buyer
Secretary	Architect	Librarian
Mechanic	Pilot	Veterinary
Engineer	Personnel Officer	Politician
Home Demonstration Agent	Geologist	Farmer
County Agent	Journalist	Carpenter
Nurse	Executive or Administrator	Horticulturist
Chemist	Draftsman	Medical Technician Retail Store Manager

CHOOSING AN OCCUPATION Student Counseling Center Kansas State College

This questionnaire is concerned with the relative importance of various factors in your occupational plans. The directions are quite complicated and will require careful reading. Your full cooperation may well make it possible to improve our counseling service to future students.

Part I.

Suppose two job offers (Job A and Job B) were made to you. Suppose further that you had, or could get, extensive information about both of them regarding all 12 factors listed on the next page.

To which factor would you give the most consideration? Place a "1" in the space opposite that factor.

Assume the two jobs were equal on that factor. Which factor would you consider next? Place a "2" in the space opposite that factor.

Assume the two jobs were also equal on that factor. Which factor would you consider next? Place a "3" in the space opposite that factor.

Continue numbering the factors in this manner until all 12 of them have been ranked. In ranking any factor, always assume that factors you have previously ranked are equal for the two jobs. Be sure to rank each factor; use each of the numbers "1" through "12" once and once only.

Part II.

On this part of the questionnaire, we would like to determine just how many of these factors you would need to consider in order to make a choice between Job A and Job B.

Assume that Job A was clearly superior to Job B on the factor you have numbered "1". Would you accept Job A then or would you consider some of the other factors? If you would accept Job A, draw a circle around number "1".

If you would not accept Job A after considering only the factor you had rated "1", suppose that it was clearly superior to Job B after you had considered both the factor you numbered "1" and the factor you numbered "2". Would you then accept Job A? If so draw a circle around "2".

If you still would not accept Job A, then examine the factor you have numbered "3". Suppose Job A was clearly superior to Job B after you had considered all 3 of these factors (those you numbered "1", "2", and "3"). Would you then accept Job A? If so draw a circle around "3". If not, continue this process, drawing a circle around the last factor you feel you would need to consider. (Assume after each new factor is considered that, all in all, Job A is clearly superior to Job B.)

Many thanks for your cooperation.

ANSWER SHEET

Please Pr	ını							
Name_ Last		First	Ŋ	Ag ⁄Iiddle	e <u> </u>	Curr Months		•
Class (Fre	esh., S	Soph., etc.)_				No Vetera		YesNo
In what occ	cupatio	onal field do y	ou hop	e to find en	nployme	nt after gradu	ation?	
How certai	in are	you that this i	s the	field you wa	int? (C	ircle a numbe	r)	
1	2	3	4	5	6	7	8	9
Very		Fairly			-	Fairly	·	Very
Uncertain		Uncertain				Certain		Certain
				Factors				
		ptance (Exten as a cog in a			npany tr	eats me as ar	n individ	dual rather
· · · · · · · · · · · · · · · · · · ·	Adva	ncement (Pos	sibilit	y of getting	promot	ions)		
	Chall	lenge (Amount	of ing	genuity and	thought	required)		
	Dema	and (Number o	of oper	nings in rel	ation to	number being	traine	d)
	Indep	endence (Deg	ree to	which I can	contro	l my own wor	k activi	ties)
	Inter	est (Degree to	which	h I would ei	ijoy the	actual work a	ctivitie	s)
	Locat	tion (Whether	job is	in large ci	ty, east	coast, etc.)		
		tige (Degree t re the job)	o whic	ch others	wife, pa	rents, friend	sresp	pect and
	Salar	y (Amount of	money	I would ea	rn)			
	Secur	rity (Likelihoo	od of b	eing fired o	or laid o	ff)		
	Usefu	ılness (Degre	e to w	hich the job	benefit	s society in g	eneral)	
	Vario	ety (Number o	f diffa	rent duties	involve	d)		

APPENDIX B

Table 7. Ages of the students in the attrition and persisting groups

	Age		:	Attrition Group N = 46	:	Persisting Group N = 46
 Less	than	17	er en	0		0
		17 /		14		15
		18 /	,	22		26
		19 /		2		1
		20 /		1		1
		21 /		6		3

Table 8. Populations of the towns from which the students in the attrition and persisting groups came

Population of Home Town	Attrition Group N = 46	:	Persisting Group N = 46
Less than 1,000	14		13
1,000 - 2,500	7		11
2,500 - 10,000	8		9
10,000 - 50,000	12		8
Over 50,000	5		5

Table 9. Extent to which students in the persisting and attrition groups believed their high school background would influence their college achievement

								I	mp or	rta	nce	R	atin	ng							
Group	1	- 7	to	0	:	1,	2,	3,	or	4	:	5	or	6	:	7	or	8	9 or more	:	N
Persisting			4					11					7				7		18		46
Attrition			8					10					10				9		10		46

Table 10. Number of seniors in the high school graduating classes which students in the persisting and attrition groups were in.

			Nu	mber c	f S	eniors	in C	lass					
Group		than O :	:	10-24	:	25-4 9	:	50-99	; (ver	100	:	N
Persisting	**************************************	4		7		8	, and a second of	9]	18	·	46
Attrition		2		14		10		4		3	L6		46

Table 11. Education of the fathers of the students in the attrition and persisting groups

Father's Education	:	Attrition Group N = 45	:	Persisting Group N = 45
l - 8 grade		13	200 may 200 mg	9
9 - 11 grade		3		6
12th grade		19		15
FrJr. in college		6		7
Sr. in college		4		8
Anything beyond		0		0

Table 12. Education of the mothers of the students in the attrition and persisting groups

Mother's Education	Attrition Grou	up Persisting Group N = 43
1 - 8 grade	7	6
9 - 11 grade	1	1
12th grade	21	20
FrJr. in college	6	10
Sr. in college	7	6
Anything beyond	1	0

Table 13. Veteran status of the students in the attrition and persisting groups

Veteran Status	Attrition Group N = 46	Persisting Group N = 46
Non-veteran	38	42
Veteran	8	4

Table 14. Scores on occupational interest groups (of the SVIB) for groups of persisting and attrition students (N per group = 47)

	:	Group :	Primary	Secondary or Tertiary	No Pattern or Reject
I	Creative	Persisting	3	17	27
	Scientific	Attrition	1	20	26
II	Physical	Persisting	6	16	25
	Science	Attrition-	5	12	30
IV	Sub-professional	Persisting	19	17	11
	Technical	Attrition	19	19	9
V	Social Welfare	Persisting	3	11	33
		Attrition	2	9	36
III	Business Detail	Persisting	4	28	15
		Attrition	2	26	19
IX	Business Contact	Persisting	4	21	22
		Attrition	3	25	19
х	Verbal	Persisting	1	16	30
		Attrition	1	15	31

Table 15. Scores on the <u>Interest Maturity Scale</u> for groups of persisting and attrition students

					Gro	oup				
				Attri	tion	-	Pers	isting		
School	:	N	:	M	s.d.	:	M	s.d.	:	t
Agriculture	on manager of Photographic	11		49.2	7.2	CONTRACT ASSESSMENT	48.0	7.2	******	•3
Arts and Science		21		50.0	10.5		51.2	6.6		.4
Engineering		15		46.5	7.8		48.5	10.6		.5
Tota1		47		48.7	9.0		49.6	8.2		•5

Table 16. The rank in regard to importance which the students in the attrition and persisting groups gave twelve vocational values (N per group = 32)

			Ranking	
	Group :	1, 2 or 3 :	4 - 9 :	10, 11 or 12
Acceptance	Persisting	1	23	8
	Attrition	5	16	11
Advancement	Persisting	10	18	4
	Attrition	10	18	4
Challenge	Persisting	5	19	8
	Attrition	4	20	8
Demand	Persisting	2	16	14
	Attrition	5	19	8
Independence	Persisting	7	20	5
•	Attrition	5	21	6
Interest	Persisting	24	1.7	1
	Attrition	24	8	0
Location	Persisting	5	13	14
	Attrition	2	15	15
Prestige*	Persisting	2	15	15
0	Attrition	0	23	9
Salary	Persisting	17	13	2
•	Attrition	21	8	3
Security	Persisting	13	16	3
	Attrition	15	16	1
Usefulness	Persisting	7	15	10
	Attrition	3	13	16
Variety	Persisting	3	17	12
· ·	Attrition-	2	15	15

*p<.10

Table 17. Responses of the students in the attrition and persisting groups in regard to the attitudes which they held toward college (N per group = 47)

Attitude Statement	Group :	Disagree	Response Uncertain	: Agree
Those who are qualified to do	Attrition	19	12	16
college work owe it to society to go to college		14	11	22
A person should work as hard	Attrition	17	5	25
at something that is uninter- esting as at something that is interesting	Persisting	13	7	27
Parents control the lives	Attrition	30	14	3
of college students too much	Persisting	30	12	5
A person would get more	Attrition	11	9	27
out of college if he paid all the bills himself	Persisting	8	6	33
At least half of a student's	Attrition	26	9	12
college courses should be electives (not required courses)*	Persisting	18	19	10
Communism should be taught	Attrition	33	9	5
in public schools	Persisting	37	7	3
Religion should be taught	Attrition	19	15	13
in public schools	Persisting	19	15	13
The best college courses are	Attrition	5	11	31
those that teach one how to perform some specific, use-ful function	Persisting	11	10	26
Talking problems over with	Attrition	40	6	1
a counselor is a sign of weakness	Persisting	40	_ 13	24
College majors should not	Attrition	10	12	25
pe declared until at least one year of study has been completed	Persisting	11	16	20
Anyone who tries hard enough	Attrition	9	5	33
can get a college education	Persisting	5	8	34

Table 17. (Cont'd)

Attitude Statement	: Group :	Disagree	Response Uncertain	: Agree
Nowadays a person needs a	Attrition	20	4	23
college education if he wants to be successful	Persisting	12	5	30
College graduates are happier	Attrition	17	18	13
than non-college graduates	Persisting	10	25	12
The smartest students should	Attrition	30	7	9
get the best grades	Persisting	21	12	14
College professors are not	Attrition	13	31	3
generally very practical	Persisting	14	30	3
Almost anyone would cheat on	Attrition	27	13	7
a test if he were sure that he wouldn't be caught	Persisting	26	11	10
There's a lot more to college	Attrition	2	4	41
than studying and attending classes	Persisting	2	4	41
Students with poor high	Attrition	36	9	2
school records should not be allowed to enter college	Persisting	37	7	3
A person shouldn't be made	Attrition	21	16	10
to do things that are not interesting to him	Persisting	24	15	8
If a student does not attend	Attrition	12	15	20
class regularly, he should be failed	Persisting	8	15	24
Athletic scholarships are	Attrition	6	19	22
justified	Persisting	5	19	23
	Attrition	35	7	5
	Persisting	35	8	4
	Persisting Attrition Persisting Attrition	8 6 5 35	15 19 19 7	

^{*}p< ·10

Table 18. The educational goals of those students in the attrition and persisting groups as they ranked them in regard to order of importance (N per group = 45)

					Impor		
Educational Goal :	Group :	1	: 2	: 3	: 4	: 5	: 6
Skill to earn a living	Attrition	30	7	5	1	1	1
	Persisting	35	3	5	1	1	0
Better understanding of	Attrition	5	5	11	9	7	8
myself	Persisting	5	8	10	10	6	6
Better understanding of the	Attrition	6	18	7	7	4	3
world in which I live	Persisting	5	20	6	7	3	4
New friends	Attrition	3	5	14	12	7	4
	Persisting	0	8	11	13	11	2
More social experience	Attrition	0	1	5	8	15	16
	Persisting	0	1	10	3	17	14
Business and social contacts	Attrition	1	9	3	8	11	13
	Persisting	0	5	3	11	7	19

Table 19. The parents' attitude toward the vocational goal of the student as the students in the attrition and persisting groups perceived them.

Parents' Attitude Towards Vocational Goal:	Attrition Group :	Persisting Group
They suggested it	1	1
They want it more than I do	1	1
They helped me plan it	9	9
They left it pretty much up to me They had other preferences but came around to	33	30
my way of thinking They want me to go to college but would rather	1	1
I chose another curriculum	0	3
They are rather opposed to my going to college	0	0
Total	45	45

Table 20. The chances of graduating from college as perceived by the students in the persisting and attrition groups

Group	:		to	:	6 out of to 7 out of			8 out of 10 :		10 out : of 10	: N
Persistin	g	teati.	5	-	8	nut recent	.mutate Con	11	11	10	48
Attrition	-		12		10			7	8	8	45

Table 21. Responses of the students in the attrition and persisting groups in regard to the number of things they had changed their feelings toward

								Number	•								
Group	:	0 -	3	:	4	or	5	:	6	or	7	:	8	or	9	:	N
Persisting		11	*******			13		our man and the state of the st	day decises	8			*****	15		**************************************	47
Attrition		14				13				9				11			47

Table 22. Responses of the students in the persisting and attrition groups in regard to the number of things they liked about school

			Number		
Group	0	1, 2, or 3	4 - 5	6 - 9	N
Persisting	13	15	11	8	47
Attrition	15	18	11	3	47

CORRELATES OF ACADEMIC ATTRITION

bу

DONALD OLIVER NELSON

B. A., Washburn University, 1956

AN ABSTRACT

submitted in partial fulfillment of the

requirements for the degree

MASTER OF SCIENCE

Department of Psychology

KANSAS STATE COLLEGE
OF AGRICULTURE AND APPLIED SCIENCE

The major goal of this study was to examine the relationship of a number of personal and situational factors to college withdrawal among ability-qualified freshman men at Kansas State College.

A sample of 54 male students was taken from a group of 219 freshmen who had withdrawn from college at or before the end of their first semester. Since this study was concerned with dropouts who appeared to be qualified for college work on the basis of scholastic aptitude, only those students whose test scores predicted first year grades of 1.0 or higher were included.

A comparison group of 54 persisting male freshmen was selected at random after two conditions had been met. First, the persisting student had to have enrolled in the same school as his attrition mate. Second, the two students (one dropout, one persister) had to have identical aptitude test scores.

The data on which the persisting and attrition students were compared was grouped into four categories. These were personality, background, vocational interests, and attitudes and values.

Assessment devices included the Edwards PPS, Strong VIB, and two locally devised questionnaires designed to collect information on students' background, attitudes, and values.

The following conclusions appear warrented when they are considered within the limits of the sample used:

- 1. The persisters averaged significantly higher on the personality need for abasement, while the students in the attrition group scored higher on the need for change.
- 2. Trends were found on needs for autonomy and intraception, with the students in the attrition group scoring higher than the persisters

on the former and lower on the latter.

- 3. Background factors investigated seemed to be relatively independent of group classification (attrition and persisting).
- 4. No differences of any consequence were found when the persisting and attrition groups were compared on vocational interests. However, the persisters scored higher on the <u>Occupational Level</u> key and lower on the <u>Masculinity-Femininity</u> measure than did the withdrawees.
- 5. Measures of attitudes and values failed, in general, to separate the two groups. Three isolated and inconsistent trends were found.
 - 6. Several suggestions for further research were discussed.