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ABSTRACT .

According. to recent census figures, 10% of today's population are over 65 years old. It has often been stated that. individual learning needs and capabilities decline with age. To challenge this idea, a study was conducted to gather information about older adults, their learning interests, activities, and obstacles. Four hypotheses were tested through a series of interviews with 256 adults (55 and over) in Nebraska. The interview schedule was tested for reliability and validity. Data were analyzed utilizing tables with frequencies, percentages, and mean scores as well as a crossbreak analysis and t-test of significance for testing some hypotheses. Data from the study, revealed a need for more suitable continuing education programs based on the following findings: (1) obstacles to learning selected most often were "don't like to go out at night. " "not enough time," "cost," "home responsibilities," and "job responsibilities;" and (2) courses selected as an indication of learning interests included "Stretching Your Retirement Dollar," "Tax Benefits for Older Americans," "Outdoor Flora", "Medical Care in the Retirement Years," and "Laws Affecting the Aged." The study's design, findings, recommendations, and implications of the study are presented. Data collection materials, miscellaneous tables, and comparison data on learning projects are appended. (Author/EC)



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Much has been written about the older adult and learning. A large number of such writings have focused on the premise that learning needs and capabilities decline with age. However, recent research and discussion have been centered around a changing theme: declines in learning abilities and interests may be considerably less than has been historically thought. In fact, there is some evidence now available that shows older adult learners outstripping younger learners in certain areas of endeavor.

The purpose of the research presented in this report was to obtain an even greater understanding of the older learner. Consequently, learning interests, obstacles, and actual activities were examined. The Adult and Community Education Section of the State Department of Education supported, in part, this research with the expectation that additional information about a particular group of adults would eventually benefit the state's entire adult education program. Thus, the encouragement and support of Dr. Leonard Hill is greatly appreciated.

The work of Marsha Fangmeyer and Jim Gingles in assisting with the data analysis is highly appreciated. In addition, the excellent work of Olie Ahlquist, Judy Amber, Frank Bomberger, Romeo Guerra, Vern Jacobs, Neal Jennings, and Gary Whiteley -graduate student interviewers -- is gratefully acknowledged. The scope of this research would have been greatly limited without the assistance of these excellent students. Finally, the cooperation of all those individuals interviewed was most rewarding. Hopefully, this report will repay them for their efforts and contribute to better educational opportunity for all older adults in the State of Nebraska.

> Roger Hiemstra Project Coordinator

September 1, 1975

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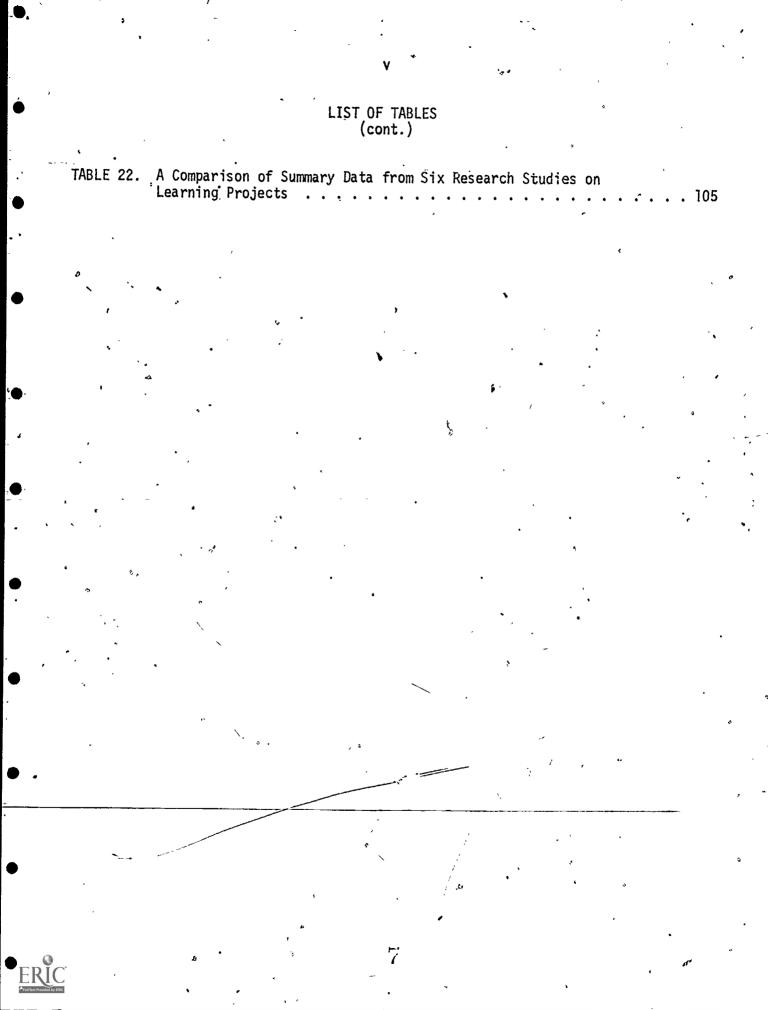
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### CHAPTER 1

#### INTRODUCTION

# General Statement

The largest minority group in the nation today is the elderly and it is proportionately growing larger each year. Yet equal educational opportunity for the elderly at this point in time is more a myth than a reality. Out of "the 1971 White House Conference on Aging" came a very powerful statement related to education and the aging:

Education is a basic right for all persons of all age groups. It is continuous and henceforth one of the ways of enabling older people to have a full and meaningful life, and a means of helping them develop their potential as a resource for the betterment of society.<sup>1</sup>

Few individuals would think that an older citizen should be denied an equal education, but the fact remains a very small percentage of the individuals over the age of 55 do involve themselves in formal educational programs (see Table 1). However, a review of almost any flyer or catalog describing the adult education programs will reveal an increasing desire to provide courses and activities to older people.

If a variety of educational opportunities are available to older citizens, the question may be raised as to why the elderly are not more involved. Are they just not interested, or are there subtle discriminating factors that inhibit equality in educational opportunities? Before dealing with such a question, a closer look at the older American is in order.

Of the total population of 210 million, according to recent census information, 21 million Americans are over the age of 65. Having this large a percentage of our society 65 or older is only a current day phenomenon, and it appears that the percentage will increase. The 65 and over population has been growing faster than

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### Table 1 Participants in Formal Adult Education Programs As a Percentage of the Total Eligible Population by Age United States, May 1969.

Age	Population in each age group	% who participated in adult education
17-24 25-34 35-44 45-54 55-64 65 and over	24,800,000 23,600,000 22,700,000 22,700,000 22,700,000 17,900,000 18,600,000	18.0 18.2 13.5 9.4 4.5 1.6

Imogene E. Oakes, Participation in Adult Education, 1969, Initial Report (Washington, D.C.: U.S. Government Printing Office, U.S. Department of Health, Education, and Welfare, National Center for Educational Statistics, 1971), p. 11.

the rest of the population for several decades, there now exist seven times as many people over the age of 65 as there were in 1900. With further advances in the medical field, the number of years a person 65 years of age would expect to live could double or triple.

California, New York, Pennsylvania, Florida, Illinois, Ohio, Texas and Michigan account for over 50% of the older population in the United States. Over 60% live in metropolitan areas, mostly in the city center areas. Some 40% of the older population live in non-metropolitan areas, mostly living in small towns. Over 95% live within the community, and not in an institution. Of this group, over 25% live alone or with individuals other than relatives. There are approximately 140 women to every 100 men, and 4 widows to every widower, in the over 65



age group, -

Transportation and mobility is often a problem for this age group. Simple shopping excursions and medical visits can create major problems due to lack of adequate travel facilities for the elderly. Of the total elderly population living outside of institutions, 86% have some chronic health condition. While the majority of the chronic conditions do not interfere to a great extent with mobility, 6% of the olderly population heed to be helped by another person, and 5% are housebound. Some of the major chronic conditions affecting the elderly are arthritis, rheumatism, hearing impairment, and digestive problems. About 90% of the elderly population wear some form of corrective lens, and 5% wear hearing aids.<sup>3</sup>

Many of the elderly are subjected to inadequate housing, poor nutrition, and sub-standard health care due to a low income level. In 1972, the average income of a retired couple was 4,96 while 53% of all individuals living alone or with non-relatives made less than 2,500. Although in the general population the number of individuals classified as poor is decreasing, the elderly poor compose a slowly growing proportion of the total.

As of 1972 there were more than 2 million individuals over the age of 65 who were "functionally illiterate". More than 12% of the total elderly population had completed less than 5 years of school. Of the racial minorities included in this group, 38.7% had completed less than 5 years of school. Only 32% of the total elderly sample had completed four years of high school, with only 12.9% of the minority group members having completed four years of high school. Only 7% of all individuals over the age of 65 have college degrees.<sup>5</sup>

The Nebraska Commission on Aging's series "Aging in Nebraska" pointed out some interesting facts about the elderly in Nebraska. The past contury has seen



persons 65 and over grow from 1% of the Nebraska population to nearly 12.4%. The past decade has seen a 43.1% increase in women aged 74 and older which makes them, percentage wise, the fastest growing segment of the Nebraska population. Between the years 1960 to 1970, an average of 5.3 persons age 65 and older joined the Nebraska population each day.<sup>6</sup> While many states, as previously discussed, have more total numbers of elderly than Nebraska, on a percentage basis Nebraska and Iowa are tied for second for having the highest proportion of its population over the age of 65. Only Florida has a higher percentage total.<sup>7</sup>

### <u>Problem</u> Setting

There has been a great amount of literature about the older adult and learning, but much of this material seems to be based more on myth than reality. Many authors have thought that learning needs as well as other needs and capabilities decline with age. Recent research has challenged this assumption, centering around the premise, that such declines might be considerably less than has been historically thought. In fact, there is some evidence now available showing that. older learners can outstrip younger learners in certain areas. Havighurst, for example, has pointed out that learning is necessary throughout life because of continuously new developmental task needs with life.<sup>8</sup> As a matter of fact, some of the greatest changes in life and needs for continual adaptation come with such events as retirement, death of spouse, and declining health.

Thus, a variety of stereotypes about the elderly are rigorously being challenged. McClusky refers to these as myths that are being dispelled. He suggests that the elderly, in general, are active, intelligent, and involved people who have positive feelings about themselves and their potential.<sup>9</sup>

A theory in direct opposition to classifying the elderly as individuals with



declining needs, and capacities is a theory that has been called the "activity theory,"<sup>13</sup> The main assumption of this theory is that an elderly person's morale will be high as long as he or she is able to stay active even if faced with role reductions and changes. This would mean replacing lost roles with other new areas of interest and activities. This suggests that there is even a greater need for continuing education in the elderly years than in the younger years. Several other researchers have found additional reasons for supplemental education to start at approximately age 55 and extend on through the elderly years. For example, a longitudinal study uncovered data that suggests a process of disengagement does occur in later years, but that psychological disengagement proceeds physical disengagement from society by as much as ten years.<sup>11</sup> Another finding was that a measure of life satisfaction not only remained stable for those actively involved in various activities during their elderly years, but tended to increase with age for many individuals.<sup>12</sup>.

Thus, it appears as though those individuals who remain active retard the advent of the disengagement process and experience continued or increasing life satisfaction. It is suggested here, therefore, that a functional adult education program for the older adult learner is a societal necessity.

# Purpose of the Study

This research project was based in part on the work completed by Allen Tough<sup>13</sup> and some research by Hiemstra.<sup>14</sup> Tough and his associates, found that by defining learning as a series of related learning episodes totaling at least seven hours of effort within a six month period, the typical adult they surveyed annually spends 700 hours in learning activities. Deciding and planning, traveling time to a learning activity, and evaluating personal progress were include their definition.

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Coolican reported on five similar follow-up studies with various populations.<sup>15</sup> These studies revealed that the range of average times spent annually in learning varied from 244 hours for young mothers to i244 for (male) professionals.

Hiemstra studied both inhibitors to participation and learning interests in adults over 65. "This study revealed that transportation limitations and a dislike of going out at night were the top reported factors affecting participation in adult education activities. When asked to select learning activities they might participate in if the various participation problems could be overcome, the respondents showed a much greater preference for instrumental categories of learning as compared to expressive categories. The research to be reported here combined the approaches and areas of focus in both of the above studies.

Consequently, the primary purpose of this study was to secure a better understanding of the learning interests, activities, and obstacles of older adults, 55 years of age and older. It is anticipated that such information will help adult educators in Nebraska and in other states plan and implement better programs of education for the older adult.

# Questions to be Answered

The following questions served as guides for the study:

- What are the obstacles older adults perceive as limiting to their participation in learning activities?
- 2. What are the relationships among various demographic/biographic characteristics and perceived obstacles to learning?
- 3. What are the perceived preferences for instrumental and expressive forms of education?

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4. What are the relationships among various demographic/biographic characteristics and the perceived preferencés?

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5. How much learning activity is undertaken by older adults in a given year? 6. What is the nature of such learning activity?

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- 7. What are the relationships among various demographic/biographic.characteristics and the amount of learning undertaken in a year?
- 8. What are the relationships between instrumental or expressive preferences and the amount of learning undertaken in a year?

In Chapter IV the questions will provide guidelines for the display, comparison, and discussion of findings.

### Limitations of the Study

In a study of this nature one major limitation will always be the representativeness of the sample. As will be discussed in Chapter III, an attempt was made to include an element of randomness in the selection of respondents. However, such factors as voter registration card biases, the selection of individuals in residences designed exclusively for the elderly, and obtaining a minority group population contained limitations that prevented a totally random and representative sample. Certainly the entire State of Nebraska was not represented.

Each interviewer was trained in an identical manner. However, one limitation would be the consistency among interviewers in asking questions, interpreting responses, and recording responses. For purposes of the study it was assumed that interviewers would work in as professional a manner as possible and that respondents would answer questions to the best of their ability.

A final limitation dealt with the fact that there exists an incomplete theoretical framework for asking relevant questions pertaining to older adults and learning. As will be described in the next chapter, a great deal of information presently exists; however, more information is needed and some of what exists conflicts with other information. Consequently, although research hypotheses are de to in later



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chapters, it is assumed that follow-up research will be required to better understand the areas addressed in this study.

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# Definition of Terms

<u>Activity</u> - The term "activity" is utilized to describe any general pursuit of learning that is achieved through a sequence of progressive tasks and/or actual experiences.<sup>16</sup>

<u>Adult</u> - Any person who has reached the maturity level where he or she has assumed responsibility for himself or herself and sometimes others and who has assumed a productive role in the community.<sup>17</sup>

<u>Adult Education</u> - Relationship between a student and an educational agent in which the agent provides, facilitates, and/or supervises a series of related learning experiences for the student.<sup>18</sup>

<u>Clientele</u> - Refers to the person or types of persons benefitting from a specific educational service -- the customer.

<u>Continuing Education</u> - "That idealistic and timeless conceptual thread that connects all deliberate efforts to help the human organism learn through life ... It has become common for adult educators who function within the (formal) context of colleges and universities to refer to their activities as continuing education."<sup>19</sup> <u>Course</u> - Term used to designate a specific type of adult learning which has an identifiable purpose, content, structure, and time period.

<u>Expressive education</u> - Courses designed to help older adults increase the enjoyment of life, to add new experiences, and to express themselves.<sup>20</sup>

<u>Facilitator</u> - An educational change agent who makes particular action possible by being available as resource, information source, and/or learning director.



<u>Instrumental education</u> - Basic or skill mastery courses necessary for the effective mastery of the aging process.<sup>21</sup>

Knowledge and skill - The entire range of behavioral changes -- cognitive, attitudinal, perceptive, feeling; and psychomotor.

<u>Learning</u> - The acquisition of knowledge, attitudes, or skills and the mastery of behavior in which facts, ideas, or concepts are made available for individual use.<sup>22</sup>

<u>Learning project</u> - A series of clearly related learning efforts adding up to at least seven hours of effort within a six month period. The last 12 months from the day of the interview will be the time period in which projects will be examined. Deciding and planning, traveling time to a learning activity, and evaluating personal progress will also be considered as part of the learning project time.<sup>23</sup>

Learning for self-fulfillment - The projects to be included here are efforts at learning for leisure, arts and crafts, hobbies, and recreation; included, too, would be learning related to music, art, dance, theatre, religion, ethics, or moral behavior.

<u>Lifelong Learning</u> - A process of learning that continues throughout life.<sup>24</sup> It is usually thought of in connection with the need to learn throughout one's lifetime in order to cope with a constantly changing society.

<u>Non-Credit Adult Education</u> - An educational process which does not grant academic credit for application to a specific academic degree.

Occupational, vocational, and professional competence - This includes learning related to preparing to enter the labor market, on-the-job training, retraining for a shift in occupation, and also basic and literacy education. Graduate courses taken by a teacher to meet state requirements would be counted here.

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<u>Personal or family competence</u> - This includes learning for the individual's role as parent, spouse, and homemaker; it also includes learning related to mental and physical health. An extensive counseling session on estate planning or family finances would be included here.

Program - An activity which is planned and organized with specific objectives.

<u>Social and civic competence</u> - This area covers the individual's role as a responsible citizen including voting and politics, current events, community government and development, pollution, and ecology.

# Outline of the Study

The second chapter reviews literature related to inhibitors to learning, learning needs and learning activities. Some more general reports concerning the projected growth of educational projects related to the elderly are also described.

Chapter III describes the design of the study and includes a methodological look at: (1) population, (2) instrumentation, (3) the interviewing process, (4) how validation/reliability was accomplished, and (5) how the data were analyzed.

Chapter IV contains a display and discussion of the study findings, including a testing of the study's hypotheses. Tables will be included where they help explain or clarify the data.

The final chapter discusses the implication of the findings and attempts to draw some general conclusions. A brief summary of the findings with suggested implications for further research are also included.

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#### CHAPTER II

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#### REVIEW OF SELECTED LITERATURE

# Introduction

Elderly people have been stereotyped in many ways varying from culture to culture and from century to century. In the American society the general perception of the elderly has been essentially negative. Old age is often seen as a period characterized with ever increasing social withdrawal and isolation. The elderly individual is seen as a passive physical and psychologically dependent individual who is oriented toward the past rather than the future.<sup>1</sup> It was found in one research study that young people of college age often misperceive that elderly individuals will be resentful of youth, more often than not in need of assistance, overly interested in their families, and preoccupied with their own death.<sup>2</sup>

As was suggested in the first chapter, most of the above stereotypes and many others are being disproven with research. However, it can still be theorized that negative attitudes permeating our culture have affected elderly individuals in their attempts to be successful in conventional classrooms. To add to this problem it is suggested that only on very few occasions have educational opportunities been directed at real needs and goals of the elderly. Instead, "we tend to place them in 'playpens' by providing recreation . . . while doing almost nothing to furnish them with the means to keep mentally alert."<sup>3</sup>

Having now obtained zero population growth, the average age of the United States population will rise. Two other factors contributing to the rise in average age are low immigration levels and a reduction in the death rate. All of these factors point to a need for an adjustment of attitude on society's part in relation to the elderly, an attitude adjustment that would specifically include those societal members working with the elderly in some educational contribution In addition, it seems safe to assume that the educational level of all age groups will rise with time because of increased opportunity and because of the greater educated young growing older. Thus, it should not be too presumptuous to predict a dramatic increase in demand by the elderly for greater educational opportunities in the next few years. Hopefully, this research will help adult educators understand more about older people and their learning needs, interests, and problems.

# Inhibitors to Learning

There are a variety of known or believed inhibitors to learning and educational activity relative to the elderly person. Some of the cognitive inhibitors relate to such beliefs that the elderly face declining memory potential, increasing inabilities to perform paired associate learning tasks, slowness in developing conditional responses, and difficulties in sorting out learning that is related to long, sequentially-related learning tasks. On the other hand, others believe when such factors as time requirements are removed these problems disappear.<sup>4</sup> Thus, more and continued research will be required before such beliefs can become facts with which a learning facilitator can deal.

Many authors feel more comfortable talking about non-cognitive inhibitors, although the evidence on such factors is probably not even as sound as what is known about the cognitive area. Some of the non-cognitive factors discussed include slowness due to physiological reasons (e.g., hearing and vision problems), lack of interest, and lack of educational attainment. Other inhibitors described in the literature involve transportation problems, fear of going to learning activities that are held in the evening, lack of awareness of what is available, prohibitive costs, and lack of time.<sup>5</sup>, 6, 7, 8

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The United States Congress and Senate Special Committee on Aging found income to be a major concern for the elderly. The elderly have an income that is less than half of the income of the younger generation. In most parts of the country that gap is widening. Families headed by an older person had a median family income of \$5,453.00 in 1972, while those elderly individuals still living as a family unit had a median family income of \$2,199.00.<sup>9</sup> Thus, elderly individuals numbering as high as 4.3 million are living in households which are considered to be below the poverty level.

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A variety of disabling health problems also act as inhibitors to elderly participants in educational activities. High medical cost, the time involved with medical visits, decreasing energy reserves, handicaps, and crippling diseases are only a few of the problems many older people face.<sup>10</sup>

Still another problem to be discussed here is the fact that in planning programs adult educators simply are not considering the older adult as a possible participant.<sup>11</sup> The fact that only 1..6%-of-those-individuals-over 64 participated in adult education during 1969 (as reported in Table 1, Chapter I) is some indication of this problem. Consequently, it is suggested that adult educators must examine a variety of approaches to overcoming the various inhibitors if the many learning needs of the older person are to be met.

# Learning Needs

There are a variety of needs that can be discussed relative to the older person. McClusky suggested several types of needs that education has a potentially powerful role to play in fulfilling: coping, expressive, contributive, influence, and transcendence.<sup>12</sup> He suggests various implications related to education for each category.

Coping needs refer to the more basic needs that fulfill the requirements for psycho-social adjustments and physical well-being. Educational programs related to such needs would be adult basic education, health education, programs involving economic improvement training and retraining, family life education, and leisure activities. Programs related to the expressive need category would include activities that were being engaged in for their own sake. These could include liberal arts, hobbies, and physical education activities. Contributive needs might include in-service training, leadership skill building, and community service awareness activities. Programs related to influence needs could be represented by community action education and programs dealing with leadership or management. The need for transcendence learning could be met through such coursës as the study of literature, philosophy, and even theology.

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Hiemstra completed a study in which the expressive-vs-instrumental conceptof need was explored, a broader classification scheme than the one described above. The study revealed that a significantly higher preference for instrumental activities (competency areas designed for effective mastery of old age challenges) was elicited from older people as compared to preferences given for expressive activities (experiences designed to increase a person's enjoyment of life).<sup>13</sup> Instrumental-type learning activities would include course titles such as "Stretching your Retirement Dohlar," "Wills and Estate Planning," "Nutrition and the Aging Process," and "Medical Care in the Retirement Years." Expressive examples would include "Art Appreciation," "Nature Photography," "The Archaeology of Mexico," "Three Black Authors," and "Introduction to Crafts." Other researchers have studied the instrumental and expressive classification scheme. Studies by Goodrow,<sup>14</sup> Marcus,<sup>15</sup> and Whatley<sup>16</sup> have supported the pref-

erence for instrumental courses finding. An important point, however, is that the information on such preferences needs to be supplemented by research on demonstrated or actual learning needs in comparison with perceived needs and interests.<sup>17</sup> DeCrow further cautions that the instrumental and expressive categories are quite broad and that dichotomizing all educational opportunities has some drawbacks.<sup>18</sup> Finally, further analysis of what older persons are actually participating in is needed to more fully understand what should be offered.<sup>19</sup>

Another means for describing some learning needs of the older person is to examine those circumstances of life that primarily only the elderly face, i.e., retirement, bereavement, and death. Pre-retirement education, financial planning workshops, and loneliness seminars are likely topics for adult education planners to consider. Perhaps, though, there are better means for meeting these type of needs. Kimmel, for example, suggests that the older person himself or herself is potentially one of the best sources to provide expertise and to facilitate learning on these topics.<sup>20</sup>

An important thing to remember is that each elderly adult is a unique individual and different individuals with different needs will demand different educational programs. Birren believes that when age-related differences in learning are found, it is not a primary capacity to learn that makes the difference, but an individual's basic perceptual differences, a mind set, the motivation of the individual, or the physiological state (including that of disease and disability status).<sup>21</sup> All these factors have implications for educational programming and in analyzing learning activity by older people.

Learning Activity

There are many interesting endeavors already taking place to meet some of the learning needs of the older person. Many institutions of higher

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beginning to graduate professional adult educators who have specialized in the area of Gerontology. Some universities and colleges are also offering means for the elderly to enroll in regular programs or to participate in non-traditional programs. The North Hennipen (Minnesota) College, as one specific example, has built a large program for senior citizens with many participants involved in both credit and non-credit college courses.

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Various national organizations have also become involved with providing educational opportunity to the older person. The National Institute for Senior Centers is currently working to upgrade senior center personnel so that better opportunities for learning can be provided.<sup>22</sup> In addition, the National Retired Teachers Association has a program entitled "The Institute of Lifetime Learning," and the American Association of Retired Persons has a program entitled the "Herman L. Donovan Senior Citizens' Fellowship Program."<sup>23</sup>

DeCrow completed a national study aimed at uncovering the extent of learning opportunity in a variety of agencies. Some 3500 different programs were reported from all parts of the educational field and from a variety of non-school organizations. The study revealed that of the 3500 reporting agencies, 58% had begun new activities within the year preceeding the receipt of the questionnaire.<sup>24</sup> Such findings show the rapid growth in opportunity and the fluidity of the situation.

Within the State of Nebraska a fluid and growth situation exists, too. Within the past year a special state-wide pre-retirement education program has been initiated by the Gerontology Program of the University of Nebraska-Omaha.<sup>25</sup> Many older people have already participated in the program and more will in the coming year. In addition, about 1000 people over the age of 68 participated in adult education programs supported through grants by the State Department of Education.<sup>26</sup> Finally, several community colleges and state colleges in Nebraska have special

programs for the elderly, 27

A facinating area of study in examining the topic of learning activity by older people is bio-feedback. The controlling of hypertension through biofeedback, for example, has tremendous implications for the older person.<sup>28</sup> Some researchers have shown that the elderly can learn certain bio-feedback techniques quicker than younger people, suggesting that the elderly are potentially better at self-awareness or progressive relaxation kinds of activities.<sup>29</sup> Perhaps these types of endeavors, when more is understood about their potentials and dangers, can be utilized to help the older person become much more skilled at personal problem solving.

A related literature area is the emerging theory base pertaining to adults' learning projects.<sup>30</sup>, <sup>31</sup> Although not specifically concerned with the older adult learner, the material on learning projects is reviewed here because part of the interview schedule used for the studies reported above was adapted for use in the current study.

As will be reported in Chapter IV, support for the idea that the older person should have more learning opportunities has been found. Certainly many opportunities already exist and more are bein's provided each year; however, it is hoped that this research report will help adult educators understand more about the older person, their problems, and their needs so that an even better job can be done in the future.



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Table 2. A Comparison of Summary Statistics from Five Research Studies on Learning Projects<sup>a</sup>

#### <u>References</u>

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<sup>1</sup>Jacob Tuckman and Irving Lorge, "Attitude Toward Aging of Individuals with Experience with the Aged," <u>Journal of Genetic Psychology</u>, 92, 1958, pp. 192-204.

<sup>2</sup>Nathan Kogan and Florence C, Shelton, "Images of 'Old People' and 'People in General' in an Older Sample," <u>Journal of Genetic Psycholody</u>, 100, 1962, pp. 3-21.

<sup>3</sup>Jack London, "The Social Setting for Adult Education," a chapter in <u>Handbook</u> <u>of Adult Education</u>, edited by Robert M. Smith, et al. (London: The MacMillan Company, 1970), p. 15.

<sup>4</sup>An excellent discussion of various cognitive-related factors is contained in Sheila M. Chown, editor, <u>Human Ageing</u> (Baltimore, Maryland: Penguin Books, Inc., 1972), various chapters. A shorter discussion of some cognitive factors is contained in David L. Arenberg and Elizabeth A. Robertson, "The Older Individual as a Learner," a chapter in Grabowski and Mason, <u>op. cit</u>.

<sup>5</sup>Various chapters in Grabowski and Mason, <u>op. cit</u>., contain some discussion of non-cognitive inhibitors.

<sup>6</sup>Hiemstra, op. cit.

<sup>7</sup>Roger DeCrow, Director, Older Americans Project, <u>New Learning for Older</u> <u>Americans</u> (Washington, D.C.: Adult Education Association of the U.S.A., ca. 1974).

<sup>8</sup>Lowell Eklund, "Aging and the Field of Education," a chapter in <u>Aging and the Professions</u>, edited by Matilda White Riley, et al., Volume II of <u>Aging and Society</u>, under the direction of Matilda White Riley, 3 volumes (New York: Russell Sage Foundation, 1968-70).

<sup>9</sup>U.S. Congress. Senate. Special Committée on Aging. <u>Developments in Aging:</u> <u>1972 and January-March, 1973</u>. Report No. 93-147 (Washington, D.C.: U.S. Government Printing Office, 1973).

<sup>10</sup>David A. Peterson, "The Role of Gerontology in Adult Education," a chapter in Grabowski and Mason, <u>op. cit</u>.

<sup>11</sup>Michael G. Kobasky, "Educational Opportunities for the Elderly," a chapter in Grabowski and Mason, <u>op. cit</u>.

<sup>12</sup>McClusky, <u>op. cit</u>.

<sup>13</sup>Hiemstra, <u>op. cit</u>.

<sup>14</sup>Bruce Goodrow, <u>The Learning Needs and Interests of the Elderly in Knox County</u>, <u>Tennessee</u>, Doctoral Dissertation, University of Tennessee, 1974 (Ann Arbor, Michigan: University Microfilms, order #75-11, 169, 1975).



<sup>15</sup>Edward E. Marcus, "Effects of Age, Sex, and Socioeconomic Status on Adult Education Participants' Perception of the Utility of Their-Participation," a Doctoral Dissertation in progress, University of Chicago,

<sup>16</sup>Lynda Folsom Whatley, <u>Expressive and Instrumental Educational Interests</u> of Older Adults as Perceived by Adult Educators, Gerontologists, and Older Adults, Masters, Thesis, University of Georgia, 1974.

<sup>17</sup>For further information on the issue of perceived versus demonstrated needs see Roger Hiemstra and Roger Long, "A Survey of 'Felt' Versus 'Real' Needs of Physical Therapists," <u>Adult Education</u>, XXIV, No. 4, 1974, pp. 270-79.

<sup>18</sup>DeCrow, <u>op. cit</u>. p. 58.

<sup>19</sup>Hiemstra recently examined the learning activities available in five different senior citizen centers or programs and determined that 82% of all activities were expressive in nature. Consequently, even if the older person wished to participate in instrumental activities, the actual opportunities appear quite limited.

<sup>20</sup>Douglas C. Kimmel, <u>Adulthood and Aging</u> (New York: John Wiley and Sons, Inc., 1974).

<sup>21</sup>James E. Birren, <u>The Psychology of Aging</u> (Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1964).

<sup>22</sup>National Council on Aging, "Seminar on Programming," National Institute of Senior Centers, Airlie, Virginia, December 9-12, 1973 (Washington, D.C.: National Council on Aging, 1974).

<sup>23</sup>Kobasky, <u>op. cit</u>.

<sup>24</sup>DeCrow, <u>op. cit</u>.

<sup>25</sup>Nebraska Commission on Aging, <u>The Older Nebraskan Voice</u>, first issue, ca. 1975.

<sup>26</sup>Nebraska Commission on Aging, <u>The Older Nebraskan Voice</u>, VI, No. 5, May-June, 1975, pp. 12-24.

<sup>27</sup>Ibid.

<sup>28</sup>Frandes Wilkie and Carl Eisdorfer, "Intelligence and Blood Pressure in the Aged," <u>Science</u>, 172, 1971.

<sup>29</sup>Diane S. Woodruff and James E. Birren, "Biofeedback Conditioning of the EEG Alpha Rhythm in Young and Old Subjects," Proceedings of the 80th Annual Meeting of the American Psychological Association, Honolulu, 1972, 673-674.

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- <sup>30</sup>Tough, <u>op. cit</u>.



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<sup>31</sup>Patricia M. Coolican, <u>Self-Planned Learning: Implications for the Future</u> <u>cof Adult Education</u> (Syracuse, New York: Educational Policy Research Center, Syracuse University, 1974). She also references in her report various other studies based on the learning projects concept. Patricia M. Coolican, <u>The</u> <u>Learning Style of Mothers of Young Children</u>, Doctoral Dissertation, Syracuse University, 1973. Laurent Denys, <u>The Major Learning Efforts of Two Groups of</u> <u>Accra Adults</u>, Doctoral Dissertation, University of Joronto, 1973. Will Johns, <u>Jr., Selected Characteristics of the Learning Projects Pursued by Practicing</u> <u>McCatty</u>, <u>Patterns of Learning Projects Among Professional Men</u>, Doctoral Dissertation, University of Toronto, 1973.

### CHAPTER III

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#### DESIGN OF THE STUDY

The theme developed thus far in the report points out the great need for life long learning to facilitate adequate adjustment in the later years. At the same time, there exists evidence that current learning opportunities being offered to the older adult for purposes of personal growth and development are not being used extensively. What are the reasons for this low participation rate? It is an intent of this study to supply some answers to this question by securing a better understanding of learning interests, obstacles, and activities of older people. Hopefully, such answers will help promote more functional educational programs for the elderly.

#### Type of Study

This research endeavor utilized the contribution of field study techniques and the survey method involving a personal interview. Katz suggests that exploratory field studies have three purposes: "to discover significant variables in the field situation, to discover relations among variables, and to lay a ground work for later, more systematic and rigorous testing of hypotheses."<sup>1</sup> It was anticipated that the information gained by combining an interview approach with the field study technique would provide the most comprehensive accumulation of information possible given the current state of knowledge regarding learning activity and the older adult.

Several tentative hypotheses were formulated for the study based on a limited number of related studies. It is expected that a testing of these hypotheses and additional results of the study will provide a better understanding of some existing variables, prompt continued research, and promote a more rigorous testing of



hypotheses in subsequent research.

### Hypotheses

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1. One aspect of the study was to obtain as representative a sample as possible. Consequently, the following null hypothesis was examined:

<u>H1</u>: There will be no differences between demographic data for the study sample and 1970 census data for Nebraska.

2. The study also examined the instrumental and expressive course classifications (see Chapter II). The following null hypotheses were examined:

<u>H2</u>: There will be no preference differences in course selection according to instrumental or expressive categories. (The predicted direction is preference for instrumental courses.)

<u>H3</u>: There will be no preference differences according to instrumental or expressive categories based on various demographic characteristics. (Directional predictions will be described in Chapter IV.)

3. The study examined the amount of learning activity undertaken in a year by older adults. Data collection on learning activity was based on the information by Tough and Coolican described in Chapter II.

<u>H4</u>: There will be no significant differences in the average number of learning projects or hours spent in learning according to various demographic characteristics. (No direction is predicted.)

# Data Collection Procedures

Data collection for this study involved the use of an interview schedule. Appendix A shows the instrument, the accompanying sheets for the interviewer's use, and the corresponding computer code sheet.

#### The Interview Schedule

The instrument contained four major sections:

1. The first section sought answers to questions on sex, age, marital status, formal education attainment, and profession or occupation. The interviewers made personal judgements in recording race, social class, and type of housing in which the interviewee resided.

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2. Part two was designed to obtain information on some potential inhibitors to participation in learning endeavors. Yes/No responses were required to 25 obstacles the respondents felt would prevent older people from participating in learning activities. The obstacles were ascertained through a review of the literature.

3. The third section examined the instrumental versus expressive categorization notion. Yes/No responses were required to indicate interest in 32 different course titles, given that the participant had no obstacle to prevent him or her from enrolling in each. The 32 titles were taken from a pool of 75 course titles gleaned from the literature, course catalogues from five institutions offering courses or programs to the elderly, and the earlier study.<sup>2</sup> A panel of three adult education/gerontology experts were utilized to determine whether a course title was deemed instrumental or expressive in nature. Where there was unanimous agreement, 16 instrumental and 16 expressive, those courses were included in the pilot-test interview schedule.

4. The final section utilized the interview schedule from Tough's work as a basis to determine the amount of learning activity within the year proceeding the interview. This section utilized a probing technique to ascertain the number of different learning projects, the types, the amount of time spent on each project, and information as to the nature of involvement in the learning activity.

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# Interviewing Process

Eight interviewers (advanced graduate students in adult education) were trained in a four hour session that included an orientation to the research project and process, a simulation interviewing activity, and a practice session on two individuals in the age 55 or older range who were selected at random. The researcher observed the interviewing procedure during the simulation activity, . examined the data sheets after the practice sessions, and answered interviewers' questions as they arose. Each interviewer was given information pertaining to the sample from which he or she was to choose respondents. Interviewers then carried out the interviews (the average time for each interview was slightly more than one hour),<sup>3</sup> completed the corresponding code sheets, and turned in their information.

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The interviewing process requires an extensive probing technique to help respondents recall all learning activities in a given years, especially those that are primarily self-planned or self-initiated. Thus, each interviewer was taught to approach the stimulation of recall through several related questions, through the use of reminder lists for the respondents to see or listen to, and through final follow-up questions. A sheet with reminder interviewing tips and supplemental sheets to the interview schedule were made available to each interviewer (see Appendix A).

#### <u>Reliability</u>

Several efforts were made to ensure that as reliable an instrument as possible was designed.

1. The initial draft of an instrument was pilot-tested by the researcher with four people aged 57, 60, 68, and 81, respectively. Individuci questions were

checked for ambiguity, clarity, wording, and sequence. Some minor corrections were made and the final form of the instrument developed.

2. The definition of learning utilized originally by Tough was redefined slightly to facilitate each interviewer in having a common understanding of a learning project. The definition utilized was as follows: A series of clearly related learning efforts adding up to at least seven hours of effort within a six-month period. The learning effort must include activities designed to obtain new information, to develop new skills, or to re-examine existing attitudes and beliefs. Activities undertaken primarily for entertainment or recreational purposes are not to be included, nor is any time to be included that is not directly related to the learning activity.

3. A research assistant in the Department of Adult Education at the University of Nebraska examined each interviewer schedule and code sheet for consistency, interviewer problems, learning projects recorded that did not fit the above definition, and code sheet errors. Any problems were discussed with the researcher and the interviewer if necessary.

4. One interviewer was obviously having difficulties with the process because of his frequent questions and the nature of the data being collected. Subsequently, he was asked to drop out of the interviewing process and data from his completed interviews were not included in the final tabulations.

5. A telephone follow-up of one respondent from each of the interviewer's group of respondents approximately one month after the interview was carried out. Although statistical testing was not attempted with such a small follow-up sample, the researcher believes that because there were so few differences between the telephone information and the interview data, especially on the obstacles and course preferences information, the instrument and the interviewers were quite reliable.<sup>4</sup>

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Invariably, one learning project could be added with intensive probing or in some cases one mentioned in the initial interview was not recalled over the telephone. Despite his intensive efforts, Tough also determined that "interviewers feit they failed to uncover all of the learning projects in some interviews and that perhaps self-planned learning is even more common than . figures indicate."<sup>5</sup>

6. Statistically the following was accomplished: The total sample was split randomly into two groups. The groups were then compared by chi-square on the total number of expressive and the total number of instrumental course selections. To significant differences were found as shown below:

۶	Instrumental Prefere	ences.	Expressive Preferer	ices
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Group	<u>615</u> /		439	
i iotels	1244		· 841 -	
x <sup>2</sup> vilue	= 1.42 /	p is N.S.		
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#### Validity

Several fior's were made to ensure initially that a valid interview schedule was available or after the collection of the data to assess how valid was the instrument.

1. In the init, " development of the instrument a review of the literature aided from a courses, lightly view the inclusion of obstacles and courses,

2. A panel of general assisted in the construct validity effort by categorizing the courses chosen as distrumental or expressive. An original pool of 75 course titles was obtained to the literature and from the course catalogs of agencies offering courses to compider person. Each panel member (a teacher in gerontology,



an administrator of gerontology programs, and an adult education/cooperative extension researcher) was given the list of 75 courses and a definition of the two terms. Where there was unanimous agreement from all three (each working independent of the other) that a course title was instrumental or expressive it was included on the instrument. To keep even numbers sixteen in each category were included (there were actually 29 "expressive" agreements). Respondents were not told anything about the instrumental or expressive categorizations.

3. Observations made during the pilot-testing by the researcher suggested that the instrument was actually measuring indications of learning inhibitors, course preferences, and learning activity.

4. Concurrent validation involved the comparison of course preferences with information reported on section 4 of the schedule after the actual learning activities were categorized by the researcher and the research assistant working independently. The information is shown below:

		Number of Preferences	·	Actual Learning Projects
Instrumental	· ]	244		421
Expressive		841		271
	$x^2$ value = .30	0	= N.S.	

Individual respondent correlations of the number of course preferences to the number of actual learning projects were as follows:

- .2541 instrumenta] = .3474

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expressive

Although both correlation coefficients are relatively small, they are . significant at the .001 leyel and beyond.

Population for the Study

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The population consisted of 256 adults, 55 and older, residing in the State of Nebraska.<sup>6</sup> The following describes their location and how they were selected:

- 1. Urban (Lincoln) Group --
  - a. 114 people were chosen randomly from voter registration cards and divided
     up among three interviewers.<sup>7</sup>
  - b. 31 people were chosen randomly from the rolls of two residential complexes built especially for the elderly and interviewed by one person.
- 2. Rural Group -- 38 people were chosen randomly from voter registration cards or rural townships in Nebraska (eighteen townships and two communities were represented near Lincoln and Omaha, Nebraska) and interviewed by one person.
- 3. Small Town Group --
  - a. 45 people were chosen randomly from the voter registration cards in three small Nebraska communities (under 4,000 population) and interviewed primarily by one person (one person noted above interviewed four people in this group).
  - b. 28 people were chosen randomly from the rolls-of a Mexican-American . community center in a middle-sized Western Nebraska town (15,000) and interviewed by a Spanish speaking person.

The refusal rate was very low (only 17 people refused to be interviewed). However, two interviewers exhausted their pool of names because of not being able to find people at home and thus reduced the number of potential respondents. In addition, several interviewees determined that the interview was taking too much time and were unable or unwilling to finish answering all the questions on the instrument.



### <u>Data Analysis</u>

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Tables with frequencies, percentages, and means will be utilized to describe much of the data throughout Chapters III and IV. In addition, a crossbreak analysis was used wherever it was determined that comparisons could be explained better, where the significance of any differences revealed through exploratory computations could be shown, and when testing some of the study's hypotheses. The t-test for significant differences between means was utilized for examining the fourth hypothesis.

The crossbreak analysis was utilized when two nominal (actual on researchermanipulated) variables were being compared. A major purpose of the crossbreak technique is as follows:

. . . to facilitate the study and analysis of relations. Crossbreaks, by conveniently juxtaposing research variables, enable the researcher to determine the nature of the relations between the variables.<sup>9</sup>

The "Statistical Package for the Social Sciences" (a computer package available through the University of Nebraska's Computer Center) contains a crossbreak analysis program that includes computation of the chi-square statistic. Fisher's exact test is applied in SPSS when there are fewer than 21 cases and Yate's corrected chi-square is applied to all other comparisons when the tables are  $2 \times 2$  tables.<sup>10</sup> Significance found at the .05 level and beyond will be included in this report. Because directions are predicted for hypotheses 2 and 3, the one tailed test of significance was utilized.<sup>11</sup>, 12

The t-test of significance was employed to explore the relations between nominalized (actual or researcher manipulated) variables (questions on the instrument) and interval scales (the number of learning projects and the number of hours) in an examination of the fourth hypothesis. The assumption of equal-intervals



was made for the two scaled variables so that the t-test could be used:

if we use ordinal measures as though they were interval or ratio measures, we can err seriously in interpreting data and the relations inferred from data, though the danger is probably not as grave as it has been made out to be . . On the other hand, if we abide strictly by the rules, we cut off powerful modes of measurement and analyses and we are left with tools inadequate to cope with the problems we want to solve.<sup>13</sup>

In addition to an assumption about equal intervals, the researcher made the assumption that two populations, i. e., natural or manipulated groupings, might or might not have the same variance. The SPSS computer package automatically computes an F test of sample variance so that a decision on pooled variance probability estimate versus separate variance probability estimate could be determined at the .05 level of confidence:

... the null hypothesis  $H_0$ :  $\sigma_1^2 = \sigma_2^2$  with alternative  $H_1$ :  $\sigma_2^2 \neq \sigma_2^2$  and a significance level  $\alpha^1$  is chosen ... From the sample variances, F is computed.

 $F = \frac{\text{larger } S^2}{\text{smaller } S^2}$ 

If the probability for F is greater than  $a^1$ , Ho is accepted: t based on the pooled-variance estimate . . . should be issued.

If the probability for F is less than or equal to α<sup>1</sup>, H<sub>0</sub> is rejected;
 t based on the separate variance estimate . . . should be used.<sup>14</sup>
 Thus, the researcher examined each t value in light of the above and signi ficant values reported in the next chapter were determined accordingly.

### The Respondents

<u>General Information</u>

Table 3 displays a variety of demographic data pertaining to the respondents. In summary of that data the subjects were approximately sixty percent female, mostly white American, and mainly from the middle class strata. Post of the interviewees lived in a house, were married, and were at least a high school graduate.

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Characteristic Description	Response Frequency	, Percent	Accumulativ Percent
Sex:	, ,	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Male	105	41.0	
Female.	<u>151</u>	59.0	
<b>、</b>	256	100.0	
Race:			
White American	227	88.7	88.7
Black American	<b>j</b> r	• .4	89.1
Mexican American	28	10.9	100.0
•	256	100.0	
Social Class: <sup>a</sup>			,
Lower	15	5.9	5.9
Middle-Blue Collar	116	45.3	51.2
Middle-White Collar	, 109	42.5	93.7
Upper	<u>   16    </u>	<u>6.3</u>	100.0
- N	256	, . 100.0	ł
Living Arrangement:			
Apartment	32	12.5	12.5
House	193	75.4	, 87.9
-Other	31	12.1	100.0
¢.	256	100.0	
Marital Status:	, •	¢	,
Married	162	63,3	63.3
Widowed	65	25.4	88,7
Single	21	8.2	96.9
Divorced/Separated	8	3.1	100.0
•	256	100.0	

Table 3. Various Demographic Characteristics for the Study's Respondents

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Table 3. (continued)

Characteristic Description	Response Frequency	Percent	Accumulative Percent
Years of Education:	÷ ,		·····
Less than 8th Grade	24	9.4	9.4
8th - 11th Grade 🛸 🥆	62	24.3	33.7
High School Graduate	, 13	32.2	65.9
Some College	3.7	14.5	80.4 /
Collegé Graduate	25	9.8	90.2
Graduate Training	25	9.8	100.0
	255	100.0	• ,
Profession/Occupation: <sup>b</sup>			~
Higher Executive/Professional	- 11	4.3	4.3
Lower Executive	46	18.0	22.3
Administrative Personnel	16	6.3	- 28.6 -
Homemaker	79	30.6	59.2
Clerical/Technician	39	15.3	74.5
Skilled	41	16.1	90.6
Semi-Skilled	16	6.3	96.9
Unskilled	. 8	<u> </u>	100.0
	256	100.0	
Age:			,
55-64	101	39.45	
	155	60.55	
65 and older			

Median Age -- 67,10 years

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Characteristic Description	Response Frequency	Percent	Accumulative Percent
Location: <sup>C</sup>			2
Urban	145	56,6	•••••
Rural	<u>111</u>	43.4	~ -
	256	100.0	,

Table 3. (continued)

<sup>a</sup>Determined by the interviewer based on answers to other questions and personal observations. This particular category was also discussed during the interviewers' training session.

<sup>b</sup>Determined by the interviewer based on answers to other questions or to direct questions about occupation. This particular category was also discussed during the interviewers' training session.

<sup>C</sup>Urban subjects included only those residing in Lincoln. All others were

A wide variety of occupations were represented, but with only a fairly small percentage falling in semi-skilled or unskilled categories.

The age distribution showed a fairly large number in each group, although sixty percent of the interviewees were over 64. The range of age was from 55 to 98 with the average age at slightly more than 68 years. Slightly more than thirty-five percent were 70 years of age or older.

Interviewers also asked questions seeking to ascertain if the older persons had received training outside the formal education structure. It was reported that 108 people had received or participated in specialized training. The following outlines the main categories reported:



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Vocational/technical training - 15 people On the job training - 41 people Correspondence study - 8 people Business school - 18 people Miscellaneous training - 26 people

This particular question was not pursued in depth by the interviewers. Subsequent research would need to delve deeper into the topic if it is considered an important variable.

### Hypothesis Testing

The first hypothesis stated in the null form there will be no differences between demographic data for the study sample and 1970 Census data for Nebraska. Table 4 shows the comparative data for selected variables. On the demographic characteristics of age, sex, marital status, and occupation, the study sample was representative of the total state population, 55 years of age and older. However, the hypothesis received only partial support. The study sample included more non-whites, higher educated people, and more urban residents than would be expected in a truly representative sample. The fact that a fairly large proportion of the individuals resided in Lincoln accounted for much of the difference.

Comparison Variables		Study_Data		Census Data	
	N	0.	%	No.	%
Séx:		1			
Female Male		51 <u>25</u>	59.0 <u>41.0</u>	177,593 144,591	55. 44.
<b>T</b> otals	2	56	100.0	322,184	100.
$x^2$ value <sup>a</sup> = 1.51	N.S.			,	
Race:	,				I
White American Other	2	27 29	88.7 <u>11.3</u>	316,300 <u>5,884</u>	98.2 <u>1.8</u>
Totals	25	6	100.0	322 <b>,</b> 1 <u>.</u> 84	100.0
$\chi^2$ value = 128.73	Sig. = <	.001		,	,
Marital Status: Married Widowed Single Divorced/Separated	6 2	5	63.3 25.4 8.2 <u>3.1</u>	201,307 28,125 78,875 17,259	61.8 8.7 24.2 <u>5.3</u>
Totals	25	6	100.0	. 325,566 <sup>b</sup>	100.0
$\chi^2$ Value = 2.57	N.S.			•	
ears of Education:	,				×
Less than 8th Grade 8th - 11th Grade High School Graduate Some College College Graduate Graduate Training	24 62 83 37 25 <u>25</u>	2 3 7 5	9.4 24.3 32.2 14.5 9.8 9.8	45,950 134,206 58,825 25,408 10,592 7,453	16.3 47.5 20.8 9.0 3.8 2.6
Totals	- 256	;	100.0	282,434 <sup>C</sup>	100.0
$\chi^2$ value = 135.13	Sig. = < .	001		,	

Table 4. Crossbreak Comparison of Selected Study Demographic Variables with 1970 U.S. Census Data for Nebraskans (55 Years of Age and Older)

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Table 4.	(continued)
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Comparison Variables	-	Stuc	ly Data	Census	Data
		No.	%	No.	%
Occupation: <sup>d</sup>					
White Collar Blue Collar		112 <u>65</u>	63.3 <u>36.7</u> .	320,482 185,676	63. 36.
Totals		177	100.0	406,158	100.
$x^2$ value = 0.00	N.S.			、	
Age:					
55-64 65 and older		101 <u>155</u>	39.45 60.55	138,658 183,526	43. 56.
Totals	٧	256	100.0	322,184	100.0
$\chi^2$ value = 1.39	N.S.	^		,,	100,1
ocation: <sup>e</sup>					
Urban Rura1		145 111	56.6 <u>43.4</u>	162,454 <u>159</u> ,730	50.4 <u>49.6</u>
. Totals		256	100.Ò	322,184	100.0
$x^2$ value = 3.96	Sig.≓	< .05			
· · · · · · · · · · · · · · · · · · ·			•		

Expected frequencies within each category were obtained for the chi-square test by multiplying the corresponding Census data percentage times the study number total.

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Based on sampling projections so that the totals are different than the actual universe total.

### С

Based on sample projections of those individuals with an income so that the totals are different than the actual universe total.

d

Based on sample projections of employed individuals, 16 years of age and older, so that the totals represent the entire Nebraskan adult opulation. White collar includes professional, technical, managerial, sals, clerical,

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and farm owners classifications. Blue collar includes craftsmen, operatives, and laborer classifications. Housewives/homemakers, service workers, and private household workers are not included in either group. Homemakers are also not included in the study population for the chi-square computation.

Urban included only Lincoln residents. Rural included all other individuals.

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### References and Footnotes

Daniel Katz, "Field Studies," a chapter in <u>Research Methods in the Behavicral</u> <u>Sciences</u>, edited by Leon Festinger and Daniel Katz (New York; Holt, Rinehart, and Winston, Inc., 1953), p. 17.

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Hiemstra, op. cit.

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Tough, <u>op. cit.</u>, averaged about two hours per interview in his work. As will be seen in Chapter IV, the number of projects and hours devoted to learning were fewer in this study as compared to what Tough found. Perhaps the interviewers for this study did not do an adequate job of probing to uncover all learning projects. However, if subsequent research reveals that the older person does indeed spend fewer hours in learning each year, then the less than two hours in interviewing is probably all that is required to gather the data.

Coolican, <u>op. cit</u>., p. 11, notes that no coefficients of interviewer reliability were established among the various interviewers mentioned in her report. Subsequent research should endeavor to determine actual interviewer reliability.

Tough, <u>op. cit</u>., p. 89.

Age 55 was chosen because that is now the age being considered by many as the time to begin retirement. Robert Havighurst, "Adult Education and Human Development," <u>Centro Social</u>, International issue, 14, 1967, p. 12, refers to it as the beginning point for maintaining one's position and for looking ahead. Financial limitations precluded the choice of study individuals who resided outside the State of Nebraska.

City hall officials made available the voter registration cards. A pool of randomly selected individuals was obtained with names, addresses, and ages. Each interviewer was given a list of names and he or she contacted people on the list until between 35 and 40 interviews were completed.

The term "yariable" in this study refers to the various demographic characteristics, the obstacle selections, the course preferences, and the learning projects information.

Fred N. Kerlinger, Foundations of Behavioral Research (New York: Holt, Rinehart and Winston, Inc., 1967), p. 243.

# References and Footnotes (cont.)

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Norman H. Nie, et al., <u>Statistical Package for the Social Sciences</u>, second edition (New York: McGraw-Hill Book Company, 1975), p. 243.

Sidney Siegel, <u>Nonparametric Statistics</u> (New York: McGraw-Hill Book Company, 1956), p. 13.

Bruce W. Tuckman, <u>Conducting Educational Research</u> (New York: Harcourt, Brace, Jovanovich, Inc., 1972), p. 378.

13 Kerlinger, <u>op. cit</u>., p. 427.

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Nie, et al., <u>op. cit</u>., p. 270.

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CHAPTER IV

# Introduction

The purpose of this chapter will be to present as concisely as possible the major findings of the study. There are three major sub-divisions in the chapter. The first section will be a brief description of responses to the obstacles that prevent older people from participating in formal learning activities. The second section presents information on course preferences. The section will include some comparisons according to the instrumental and expressive categories and a testing of hypotheses 2 and 3. The final section will describe the learning projects information, make several comparisons, and test hypothesis 4.

## Obstacles to Learning

Interviewers asked each respondent the following question: "Many things stop people from taking a course of study, learning a skill, or following a topic of interest. Which of the following do you feel are important in keeping you from learning what you want to learn?" Then a list of 25 obstacles was read and interviewees selected as many as they wanted from the list as obstacles to learning activity.

Table 5 shows the ranked responses from all the people interviewed. Not wanting to go out at night was indicated as an obstacle by almost one-half of the respondents. Perhaps this finding indicates that adult education is preceived of as only evening activity and, if such a conclusion is true, then the nontraditional efforts of educational institutions will need considerable promotion.



Obstacle Description	No, Saying' Yes	źa	Rank
Don't like to go out at night Not enough time Costs Home responsibilities Job responsibilities Don't have enough energy or stamina Don't know what I'd like to learn I'm too old to begin learning My health is bad Time required to complete programs Don't enjoy studying Too much red tape in enrolling Courses not scheduled when I can attend Strict attendance requirements No transportation available Courses often aren't interesting Tired of school and classrooms Not confident of my ability No information about where I can	116 100 78 77 73 72 69 67 67 53 47 45 43 38 37 32 31 31	45.3 39.1 30.5 30.1 28.6 28.1 28.0 26.3 26.3 21.8 18.7 18.9 18.5 16.0 14.5 13.7 12.4 12.1	1 2 3 4 5 6 7 8.5 8.5 10 11 12 13 14 15 16 17.5 17.5
get what I want Courses don't seem to be available I don't meet requirements to begin Friends and family don't like idea Low grades in past No way to get credit for a degree No place to study or practice	30 24 21 20 9 7 7	12.3 10.4 8.9 7.9 3.6 3.0 2.7	19 20 21 22 23 24.5 24.5

Table 5. Obstacles to Learning Activity Ranked by the Numbers Indicating Yes

Percentages based on total number of responses per item. There were occasional non-responses for an item.

A further examination of the table reveals that perceptions of personal problems, time constraints, and health-related obstacles are ranked quite high. Obstacles related primarily to administrative decision-making areas perhaps are



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the next highest marked areas. Family-related constraints, attitudes about personal abilities, and course-related problems were obstacles receiving only a few "yes" responses.

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Hopefully, the information related to perceived obstacles can be utilized by program administrators to make learning opportunities more available. In addition, subsequent research should focus more intently on this issue of obstacles and determine some means whereby they can be overcome.

# Instrumental and Expressive Learning

Interviewers also made the following statement about potential enrollment in adult education activities: "Suppose you had an opportunity tomorrow to enroll in an adult education course that met once a week for two hours for six consecutive weeks. By this I mean that you had the time, the finances, and the transportation to wherever the course would be offered. In which of the following courses might you be interested in enrolling?" The respondents were then read the list of 32 courses and asked to indicate their interest with a "yes" or "no" reply. Table 6 details those responses.

Many of the instrumental selections were ranked highly by the respondents. Fifty percent or more of the individuals said they would enroll in two of the five money-related courses and four of the five were ranked in the top half of course selections. Health related topics were another area of high interest. Music appreciation, art appreciation, outdoor flora, and modern religions were the only expressive courses ranked in the top half.

Perhaps not too surprising, the topic "The high cost of dying" was ranked at the bottom. Art, crafts, and outdoor-related courses also were infrequently selected by respondents. Hopefully, the information on course selection will be



Course Title	No. Saying Yes	, <sub>3</sub> a ∖	Rank
Stretching Your Retirement Dollar (I) <sup>b</sup>	 1 38	53.9	1
Tax Benefits for Older Americans (I)	1291	50.4	1 2
Jutdoor Flora	107	41.8	2
Medical Care in the Retirement Years (I)	103	40.2	2 3 4 5 6 7
aws Affecting the Aged (I)	100	39.1	5
Fourism and Your Travel Dollar (I)	97	37.9	5
lusic Appreciation	90	35.2	7
ills and Estate Planning (I)	38 /	34.4	8
lew Opportunities in Retirement (I)	· 35	33.3	9.5
Physical Fitness with Fun (I)	• 35	33.2	9.5
lutrition and the Aging Process (I)	83	32.5	11
eisure Activities for Retirement Years (I)	82	32.2	12
odern Religions	78	30.5	13
undamentals of Investing (I)	73	28.5	14
eading Efficiency (I)	68	26.7	15 .
rt Appreciation	64	25.0	17
ntroduction to Crafts	64	25.0	17
id-Western Birds	64	25.0	17
ilms and Photography "	55	21.6	19
he Nature of Prejudice	50	19.6	20
onversational Spanish	45	17.6	21
he Archaeology of Mexico	έG	16.8	22.5
eginning Painting	43	. 16.8	22.5
inancial Aspects of Retirement Counseling (I)	42	16.4	24
ock Collecting	36	74.7	25.5
pot Problems and Care (I)	. 36 .	14.1	25.5
ature Photography	SE (	13.7	27
hree Black Authors	26	10.2	28
stronomy: From Myth to Science		9.0	29 _
ushroom Hunting	31	7.1	30.5
asics of Lipreading (I) he High Cost of Dying (I)	<b>.3</b> *	.7.0	30.5

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Table 6. Course Selection Preferences Ranked by the Numbers Indicating Yes

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a Percentages based on total number of responses per item. There were occasional non-responses for an item.

The letter in parentheses signifies an instrument: course. .11 others were classified as expressive in nature.



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helpful in future course planning by educators.

The second hypothesis predicted a greater preference for instrumental courses. As Table 7 shows, a significant preference for instrumental types of learning was found and the null hypothesis of no difference according to instrumental or expressive categories can be rejected. Note, too, that the figures in parentheses reveal that actual learning involvement was in the direction of instrumental activities at a significant level.

Preference Category	Actual No.	%	Expected No. <sup>a</sup>	%
Course Title Selection:				,
Instrumental Expressive	1244 841	59.7 <u>40.3</u>	1042.5 1042.5	50.0 50.0
Totals	2085	100.0	2085.0	100.0
$\chi^2$ value = 77.89 Sig. = <	.001		•	,
Actual Learning Projects: <sup>b</sup>				, ,
Instrumental Expressive	(421) ( <u>271</u> )	(60.8) ( <u>39.2</u> )	(346) ( <u>346</u> )	(50.0) ( <u>50.0</u> )
Totals	(692)	(100.0)	(692)	(100.0)
$\chi^2$ value = (32.51) Sig. = (<	.001)			

Table 7. Preferences Toward Instrumental and Expressive Forms of Learning

Assuming the null hypothesis of nc difference, 50% of the total number of course selections or learning projects could be expected in both categories.

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The actual learning projects are described in the next major section. Analysis and categorization of actual learning projects is described in Chapter III within the validation discussion.

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The third hypothesis called for an examination of any preference differences according to instrumental or expressive categories based on various demographic characteristics. Predicted directions were as follows based on an earlier study by the researcher:<sup>1</sup>

- 1. The oldest individuals would show more preference toward instrumental.
- 2. Males would show more preference toward instrumental.
- 3. Blue collar workers would show more preference toward instrumental than would white collar workers.
- 4. Rural residents would show more preference toward instrumental than would urban residents.
- Less than college graduates would show more preference toward instrumental. than would college graduates.

Table 8 shows the results related to the hypothesis and includes data for comparisons according to the variables "race," "social class," "living arrangement," and "marital status" for which no directions were predicted. (Additional related tables can be found in Appendix B.)

The directions suggested were generally supported, although only for two variables were there significant differences. In addition, younger individuals tended to prefer instrumental courses at a greater rate tha. older respondents. Consequently, rejection of the null hypothesis can only be partial. Note, too, that the "race" and "marital status" characteristics showed significant differences in the comparisons and should provide some directional suggests for future hypotheses and research.

The learning activities to be described more fully in the next section were also analyzed according to the instrumental and expressive categories. (For 20 of the projects it was impossible to determine if the classification should be instrumental or expressive. Consequently, only a base of 692 instead of 714 could

Č	omparison Variable	. Instrum No.	ental %	Expr No.	essive %	Totals
Age: '	······			·	· ^ ^ A	τ
55-64 65 and ol	der	67 91	73.6 67.4	24 44	26.4 32.6	91 <sup>°</sup> 135
	Totals	158		68 -	••	226
· • ,	$\chi^2$ value = 0.73	Sig. = N.S.			L	,
Sex:	*	,				* <i>(</i>
Females Males	· .	83 75	63.4 78.9	48 20	36.6 21.1	· 131 
	Totals	158		68		. 226
	$\chi^2$ value = 5.64	Sig. = < .01				•
Occupation: <sup>b</sup>						
Blue Colla White Coll		85 72	70.2 69.2	36 <u>32</u>	29.8 30.8	2121 104
	Totals	157		68	•	225
	$\chi^2$ value = 0.00	Sig. = N.S.			\$	
Location: <sup>C</sup>					e.,	• •
Urban Rural	, ·	82 <u>76</u>	62.6 80.0	49 <u>19</u>	37.4 20.0	131 95
	Totals	158		68		226
	$\chi^2$ value = 7.12	Sig. = < .005				
Education: <sup>d</sup>		-	مو			
Less than College Gr	College Grad. Paduate	129 	72.1 60.9	. 50 <u>18</u>	27.9 39.1	179 46
	Totals	157		68		225
``	$\chi^{2}$ value = 1.68	Sig. = N.S.			-	

# Table 8. Crossbreak Comparisons of Various Demographic Variables with Instrumental or Expressive Learning Preferences<sup>a</sup>

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Table 8. (continued)

Race: White American Other <sup>e</sup>	133				•
White American		1			
other	25	66.8 92.6	66. _2	33.2 7.4	199 27
Totals	158		68		, 22,6
$\chi^2$ value = 6.32 Sig.	. = < .02	f		,*	;
Social Class: <sup>g</sup>		£			×.
Urper Upper Middle Lower Middle Lower	6 69 77 <u>6</u>	42.9 68.3 77.0 54.5	8 32 23 `5	57.1 31.7 23.0 45.5	14 101 100 <u>11</u>
Totals	, 1.58		68		226
$\chi^2$ value = 0.03 Sig.	= N.S.		•		
Living Arrangement:				•	
Home/House Apartment Institution Other <sup>11</sup>	121 22 10 5	71.6 73.3 52.6 62.5	48 8 9 3	28.4 26.7 47.4 37.5	169 30 19 8
Totals	158		68		226
$\chi^2$ value = 0.35 Sig.	= N.S.				
Marital Status:			٠		-
Married Widowed Single Divorced/Separated	107 38 8 5	75.4 66.7 42.1 62.5	35 19 11 <u>3</u>	24.6 33.3 57.9 37.5	142 57 19 <u>8</u>
Totals	158		68		226
$\chi^2$ value = 9.48 Sig.	√= < <b>.</b> 05	,			
	<u>`\</u> '				
	<u> </u>				,
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# Table 8. (continued)

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Instrumental or expressive preferences were determined by tabulating an individual's total number of selections or projects in each category. If the individual's total for instrumental was larger than the total for expressive, the label of instrumental preferences was given (vice versa for expressive preferences). Thirty people had chosen an equal number of instrumental and expressive courses and were not included in the computations for this table. Totals are not always equal to 226 because of non-response.

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Homemakers were included within the blue collar grouping. Appendix B shows an expanded version of the occupational classification.

See Table 4, Chapter III, for a description of the location classification.

Appendix B shows an expanded version of the educational classification.

Other included one Black American and 25 Mexican Americans.

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A two tailed test for significance table was utilized for this and the next three variables.

See Table 3, Chapter III, for a discussion of this variable.

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"Other" included people living with relatives, living at a residence only temporarily, in the process of moving, or living in a convent.

be used.) In a comparison of the learning projects and the various demographic characteristics, some similar and a few differences were observed relative to the information presented above for the third hypothesis. Table 19 in Appendix B contains these findings. The primary differences was in the "race" comparison where a non-significant difference was found.

Table 20 in Appendix B contains a comparison table to Table 8 above, except that those cases where the number of instrumental preferences equaled the number of expressive preferences are included. The only difference in relation to Table 19 was the fact that a non-significant chi-square value existed for marital status.

The same information on actual learning projects was also analyzed by T-test according to the total number of projects per year. As Table 9 shows, there was only one significant difference in the test of means. White collar workers carried out more learning projects in a year than did blue collar workers. As will be seen in a later table, this can be accounted for in part by the fact that the white collar worker was more involved with professional or vocational improvement type of projects.

Although the information in Table 9 is not presented here necessarily in support of hypothesis 2 or 3, the findings should provide useful information for future researchers and program planners. In essence, the data trends suggest that younger people, white collar workers, males, urban residents, people living in homes or apartments, college graduates, non-whites, married people, and upper/upper middle class people are more likely to be engaged in instrumental activities. Females, urban residents, white collar workers, college graduates, non-married individuals, and upper/upper middle class people are more likely to be engaged in expressive forms of learning. Table 21 in Appendix B contains some supplemental data.

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Comparison Variable $'$	•	Instrum	enta l		Expres	sivo
	No.a	Mean	01 0	No.	a Mean	St. Dev.
Age:	•	- •		,		
55~64 65' and older	85 <i>*</i> 105	2.41 2.06	1.66 1.11	55 88		1.03 1.10
•	Ϋ́Τ	value =	1.76	т	va¹lue ≐	-0.04
•		Sig. =	= N.S.		Sig.	= N.S.
Sex:				-		1
Female , Male	112 78	2.13 2.35	1.29 1.52	95 48	1.95 1.79	1.13 0.94
· · ·	۲v	/alue =	-1.05	Т	value =	0.87
<b>`</b> .	9	Sig. = N	I.S.		Sig. =	= N.S.
Location:						
Urban Rural	106 84	2:25 2.18	1.43 1.34	90 53	1.95 1.79	1.09 1.04
•	Τv	alue =	0.33	Т	value =	0.89
		Sig. =	N.S.		Sig. =	• N.S.
Occupation:			1			
Blue Collar <sup>b</sup> White Collar	103 86	2.01 2.47	1,23 1,54	75 67	1.83 1.96	1.03
	Τv	alue =	-2.26	Т	value =	-0.71
-		Sig. =	<.05		Sig. =	N.S.
Living Arrangement:						
Apartment/House/Home Institution/Other	167 23	2.25 2.00	1.40 1.28	122 21	1.88 2.00	1.07 1.14
	Τv	alue = (	0.85	T	value =	-0.46
		Sig. =	N.S.	,	Sig. =	N.S.

Table 9. T-test Comparisons of Various Demographic Variables with the Number of Instrumental and Expressive Learning Projects

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Table 9. (continued)

7.

Comparison Variable	Instrumental No. <sup>a</sup> Mean St. Dev.	Expressive No.ª Mean St. Dev.
Education:		
College Graduate Less than Coll. Grad.	44 2.43 1.76 146 2.15 1.26	35 2.06 0.91 107 1.84 1.13
×	T value = 1.18	T value = 1.15
	Sig. = N.S.	Sig. = N.S.
Race:	-	•
White American Other	161 2.20 1.42 29 2.31 1.23	123 1.90 1.08 20 1.85 1.04
	T value = -0.44	' T value = 0.21
	Sig. = $N.S.$	Sig. = $N.S$ .
Marital Status:		
Married Not married <sup>C</sup>	129 2.34 1.49 61 1.95 1.10	0.980.98 57 2.05 1.19
` <b>`</b>	T value = 1.82	T value = 1.38
	Sig. = N.S.	Sig. = N.S.
Social Class:		
Upper/Upper Middle Lower/Lower Middle	101 2.30 1.40 89 2.12 1.38	83 2.00 1.12 60 1.75 1.00
	T value = 0.86	T valuė̀ = 1.40
	Sig. = N.S.	Sig. = N.S.

#### а

The figures represent the number of cases not projects; individuals with zero projects have been excluded.

### b

С

Homemakers were included in the blue collar classification.

# ERIC Full fact Provided by ERIC

Single respondents were never married, widowed, divorced, or separated.

## Learning Projects

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Interviewers asked a variety of probing questions to help respondents recall the number of different learning projects and number of hours spent with each project. As Table 10 shows, the older people interviewed are spending a considerable amount of time each year in learning endeavors. It should be noted that 42 people choose not to or were unable to supply information relative to learning projects because of fatigue or unwillingness. Most of these individuals fell in the older and/or lower class groupings. Consequently, a base of 214 people will be utilized throughout this section.

In addition to actual learning activity, the interviewers all noted that most people spent many hours each week of their life watching television programs of an entertainment nature as opposed to an educational nature. One obvious conclusion from this information is the fact that the typical older person in Nebraska keeps active or busy in a variety of ways.

Tables 11 and 12 outline the number of different projects and number of hours spent in learning. Although the majority of the respondents carried out fewer than four projects and spent fewer than 300 hours in learning, many people are engaged in considerable learning each year. To give the reader a flavor of the learning activity, three examples are given:

- -- one 86 year old gentleman in Lincoln spent nearly 600 hours last year learning how to grow an organic garden. His activities included attending meetings, reading books, watching ETV programs on gardening, attending gardening meetings, and talking with other gardeners.
- -- an 81 year old Lincoln woman spent nearly 1200 hours last year researching for her autobiography. She remarked that she doesn't really care if it is ever published; she just wants to write it.
- -- a semi-retired 69 year old factory worker devoted over 2000 hours to research for several magazine articles he is writing. He has had several things published over the years.

Informational Description <sup>b</sup>	- Hours	Projects
Average Per Person Per Year	324.56	3.33
Standard Deviation	<b>296.05</b>	1.95
Median	237.43	3.04
Range	12-2300	1-9
Total Number of Project	ts `= 712	, `\
Total Number of Hours =	= 69,456	$\langle \rangle$

# Table 10. Older Adults' Learning Projects: General Descriptive Information<sup>a</sup>

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a Based on 214 individuals with one or more learning projects.

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See Coolican, op. cit., p. 12, for comparable data.

Table	11,	Number of Learning Projec	ts
		Conducted In A Year	

Number of Projects <sup>a</sup>	Number of People	Percent of People <sup>D</sup>	Accumulative Percent	
- 0	41			
.]	46	21.4	21.4	
2	43	20.0	41.4	
3	4 34	15.8	57.2	
4	38	17.7	74.9	
5	26	12.1	87.0	
6	14	6.5	93.5	
7	5	2.3	95.8	
8	6	2.8	98.6	
9	3	1.4	100.0	

See Tough, <u>op</u>. <u>cit</u>., p. 17, for comparable data.

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Based on a base of 214

individuals.

Number of Hours <sup>a</sup>	Number of People	Percent of People	Accumulative Percent	
12-99	37	17.29	17.29	
100-199	51	23.83	41.12	
200-299	38	17.76	58.88	
300-399	29	13.55	72.43	
400-499	19	8,88	81.31	
500-599	12	5.61	86.92 <sup>.</sup>	
600-699	9	° 4.21	91.13	
700-799	3	1.40	. 92.53	
800-899	, 5 ,	2.34	94.87	
900-999	6	2.80	97.67	,
1000-1499	• 3	1.40	99.07	
1500-1999	1	0.47	9,9.54	
2000-2300	1 .	0.47	100.01 <sup>b</sup>	

2

Table 12. Number of Hours Spent In Learning In A Year

a See Tough, op. cit., p. 18, for comparable data.

b.

Rounding error.

The information on learning projects was compared with various demographic variables to ascertain a better picture of the learning activity. Table 13 contains this information. If a composite picture is possible, the active older learner in Nebraska more often than not is 55-64 years of age, rural/ non-town, white American, upper class, living in an apartment, not-married,

			••		• • •
Comparison Variable	No. of People	Average No. of Projects	Range of Projects	Average No. of Hours	Range of Hours
Age:		٠		-	
55-64 65 and ölder	91 123 <sub>-</sub>	3.43 3.26	. 1-9 1-9	336.74 315.54	12-1675 20-2300
Community:		, <i>,</i>			
Urban Rural/Non-Town Rural/Small Town	126 36 52	3.44 3.75 2.72	1-9 1-8 1-6	352.11 388.44 211.30	12-1675 20-2300 20-520
Sex:	•		,		
Male Female	89 125	3.19 3.43	1-9 1-9	327.65 322.35	20-2300 12-1675
Race:	:	*	•		
White American Black American Mexican American	185 1 28	3.29 3.00 3.64	1-9 3 1-6	333.52 350.00 239.71	12+2300 1050 20+668
Social Class:		;		• ,	
Lower Lower Middle Upper Middle Upper	14 85 101 <sup>.</sup> 14	2.93 2.96 3.48 4.64	1-6 1-9 1-9 2-7	256.29 293.59 307.18 590.86	50+990 20+2300 12+1296 212+1675
Living Arrangement	t:				
Apartment Home/House Institution Other	28 159 18 9	3.71 3.21 3.73 3.56	1-9 1-9 1-9 2-8	413.39 310.40 232.44 302.67	26-999 12-2300 75-450 50-668
Marital Status:	```````````````````````````````````````				
Married Widowed Single Divorced/ Separated	140 51 16 7	3.30 3.18 4.32 2.85	1-9 1-7 1-9 1-5	302.51 357.83 307.19 337.86	12-2300 35-1675 30-910 26-955

Table 13. Comparisons of Learning Projects Information With Demographic Variables

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Table 13.	(continued)
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	No. of People	Average No. of Projects	Range of Projects	Average No. of Hours	Range of Hours
Education:		) )	ς	·	•
Under 8th Grade	22	3.22	1-6	250.55	50-668
8 - 11th Grade	45	2.40	, 1′−7	222.22	20-999
H.S. Graduate	65	3.26	1-8		· 12-1675
Some College	34	3.76	1-8	443.50	25-2300
College Graduate	24	3.75	1-9	276.38	30-815
Graduate Training	24	4.25	~ 1-9	45292	20-1296
Occupation:				`	
Highest Professional	9	4.32	1-6	<b>3</b> 54.33	136-659
Lower Professional	4 <sup>°</sup> 5	3.51	1-9	370.11	20-1296
Administrative Personnel		4.57	1-9	388.14	45-945
Clerical/Sales/		· •	,		-J-J-J
<b>Technician</b>	29	3.48	1-8	· 273.62	12-700
Skilled Manual	31	2.81	1-9	242.59	20-990
Semi-skilled/Operative	14	2.58	1-8	358.00	20-2300
Unskilled	5	3.01	1-4	283.00	100-580
Homemaker	66	3.21	1-8	. 302.03	20-1675

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See Tough, <u>op</u>. <u>cit</u>., pp. 20-21 and Coolican, <u>op</u>. <u>cit</u>., p. 12 for comparable data.

and highly educated. No discernible trends were obvious for the characteristics of "sex" and "occupation" because of similar percentages or small numbers in the various categories.

Respondents were also asked to make judgements about each project they reported. They were asked about the current status of the project at the time of the interview, the reason for doing the project, the primary planner of the learning activity, the subject matter area studied, and the source of the subject matter. The resulting data are contained in Table 14.

Only about one-quarter of the projects were inactive, perhaps reflecting the role learning continuously plays in fulfilling needs and in satisfying interests.



'Table	14.	Learning	Projects:	Supportive	Informationá
10010		Learning	riojects.	Supportive	

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Informational Description	No. of Projects <sup>b</sup>	Percent of Projects
Current Status of Projects:		
Inactive Active	176 534	24.79% 75.21%
Reason for Doing Project:	4	
To Obtain Credit For a Test or Examination For Job Improvement/Acquisition Enjoyment Mixed Reasons	27 9 106 485, 76	3.84% 1.28% 15.08% 68.99% 10.81%
Primary Planner of Project:	· ·	
A Group or its Leader/Instructor One Person in One-to-One Situation Material/Non-Human Resource The Learner Him or Herself Mixed (No-Dominant type of Planner)	145 73 28 391 72	20.45% 10.30% 3.95% 55.15% 10.16%
Subject Matter Area: <sup>C</sup>	·	•
Occupationa/Vocational Personal/Family Social/Civic Self-Fulfillment	115 144 67 385	16.17% 20.25% 9.42% 54.15%
Source of Subject Matter:		
Group/Group Instructor Expert Books, pamphlets, newspaper Programmed Materials TV/Radio/Recordings Displays/Exhibits/Museums/Galleries Friend/Relative/Neighbor Mixed Sources	86 32 222 20 66 8 53 223	12.11% 4.51% 31.27% 2.82% 9.30% 1.13% 7.47% 31.41%

a See Tough, <u>op</u>. <u>cit</u>., pp. 86-88, and Coolican, <u>op</u>. <u>cit</u>., p. 12-13.

b

Project totals for each major category are not always equal because of occasional non-responses.

See the definitions in Chapter I.

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Nearly 70% of all the primary reasons given for undertaking a project were of a purely enjoyment nature. It also turns out that the learner himself or herself plans most of the projects, or an average of 2.14 of all projects (see Table 15).

The subject matter areas studied were varied, although more than half of the projects were reported as self-fulfillment in nature (see the definitions' in Chapter I). Some comparisons of the subject matter areas with various demographic variables are shown in a later table. Table 14 also contained information as to the primary source of the subject matter information reported by respondents. Books, pamphlets, and newspapers served as the biggest single source of information. Unfortunately from the researcher's point of view,<sup>2</sup> the community and its resources were little utilized for learning needs.

Number With At Least One Project	Average Nc. With Planner		
. 86	7.69		
48	1.52		
ِ 22	1.27		
• 183	2.14		
. 46	1.57		
	Least One Project 86 48 22 183		

Table 15. Frequency of Type of Primary Planners of Learning Projects

Table 16 contains some comparison information on the choice of subject matter area according to various demographic characteristics. As can be seen, there was considerable difference in choice according to the various sub-categories. Younger educated people, clerical/sales/technician employees, skilled manual workers, unskilled people, and homemakers were more likely to report self-

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Table 16. Comparison of Subject Matter Area By Various Demographic Variables<sup>a</sup>

A	rea By V	arious De	mograp	hiç Vari	abliesa			-	
Comparison Variable		ational/ tional %		sonal/ mily %		cial/ ivic%		lf- illment %	
Åge:				<b>_</b>		,	<u>.</u>		
. 55-64 65 and Older	85 30 <sup>•</sup>	- 27-33 7.50	72 <sup>.</sup> 72	23.15 18.00	23 44	740 11 .00	-131 254	<u>42.12</u> 63.50	••• ••
		$\chi^{2} =$	62.01	•	Sig.	= <.001		•	
Community:				\$					
Lincoln Rural/Non-Town Rural/Small Town	80 22 13	18.48 16.42 9.03	95 25 24	21.94 18.66 16.67	. · 47 8 12	10.85 5.97 8.33	211 79 95	48.73 58:96 65.97	
•	•	$\chi^{2} =$	13.60		Sig.	= <.01			;
Sex:		`		e				,	
Male Female	76 ∗ 39	26.86 9.11	- 50 94	17.67 21.96	20 47	7.07 10.98	137 248	48.41 57.94	
•	·	$\chi^2 =$	40.34		Sig.	= <.01			
Race:		j		2	<b>*</b> *			*	
White American Black American Mexican American	110 0 5	18.12 00.00 4.95	109 3 32	17.96 100.00 31.68	64 0 3	10.54 0.00 2.97	324 0 61	53.38 0:00 60.40	
		$\chi^{2} =$	26.52		Sig.	= <.001			
Social Class:									
Lower Lower Middle Upper Middle Úpper	4 32 62 17	10.53 12.90 17.82 22.08	8 61 61 14	21.06 24.60 17.53 18.18	0 21 30 16	0.00 8.47 8.62 20.78	26 134 195 30	68.42 54.03 56.03 38.96	,
		$\chi^2 =$	9.83		Sig.	= <.05			
					-				

Comparison Variable		oational/ utional %		sonal/ mily%		cial/ ivic %		lf- illment %
iving Arrangement:	P.							
Apartment Home Institution Other	23 87 0 5	12.07 11.76 0.00 15.15	22 104 8 10	19.82 21.05 11.10 30.30	17 36 14 0	15.32 7.29 19.18 0.00	) 49 267 51 18	44.14 54.05 69.86 54.55
•		$\chi^2 =$	14.70		Sig.	= <.01		
arriage Status:							```	
Married Widowed Single Divorced/Separated	85 15 <sub>\</sub> 7 8	18.44 8.98 10.94 42.11	87 43 8 6	18.87 25.75 12.50 3/1.58	26 25 13 3₊	5.64 14.97 20.31 15.79	263 84 36 2	\$7.05 50.30 -56.25 10.53
	•	$\chi^{2} =$	11.64		Sig.	= <.01		
ducation:								
Less than 8th Grade 8 - 11th Grade High School Graduate Some College College Graduate Graduate Training	2 11 26 24 16 36	2.90 10.00 12.68 17.65 17.98 35.64	21 20 43 23 19 78	30.43 18.18 20.98 16.91 21.35 17.82	1 13 22 11 12 8	1.45 11.82 10.73 8.09 13.48 7.92	.45 66 114 78 42 39	65.22 60.00 55.61 57.35 47.19 38.61
ccupation:		x² ,≠	26.59	``	Sig.	= <.001		
Highest Professional Lower Professional Administrative Personnel Clerical/Sales/Technician Skilled Manual Semi-Skilled/Operative Unskilled Homemaker	13 40 24 10 9 9 1 9	27.08 26.14 37.50 10.53 10.47 27.27 7.69 4.23	6 29 12 24 14 44 44 51	12.50 18.95 18.75 25.26 16.28 12.12 30.77 23.94	6 12 4 3 11 3 0 22	12.50 7.84 6.25 3.16 12.79 9.09 0.00 10.33	23 72 24 58 52 17 8 131	47.92 47.06 37.50 61.05 60.47 51.52 61.54 61.50
、		χ <sup>2</sup> = 3	34.33		Sig.	= <.001		

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<sup>a</sup>Chi-square values are based on the collapsed categories as displayed in Table 9. Percentages are based on comparison variable sub-category totals.



fulfillment projects.

The data in Table 16 were also analyzed by chi-square according to the collapsed categories utilized earlier. Every comparison was significant at the .05 level or beyond. Certainly these findings should suggest several subsequent research ideas.

The fourth hypothesis suggested that no significant differences would be found in the average number of learning projects or hours spent in learning according to various demographic characteristics. As Table 17 and 18 show the null hypothesis is supported almost totally. There were no significant differences in the number of hours spent by the population in a pursuit of learning. When the number of learning projects was examined, three significant differences emerged: The two combined upper class groups carried out more projects than the two combined lower groups; college graduates carried out more projects than non-college graduates; white collar workers carried out more learning projects than did blue collar workers.

Certainly the evidence available from this study shows that older adults are very actively involved with learning. They are a busy group, with lots of additional interests yet to be satisfied, but with several obstacles that may. prevent their full participation in learning endeavors. Hopefully, this research will provide assistance to those planning and administering educational programs for the older person and stimulate some additional research.

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	······		
Comparison Variab	le No. Grou		of Hours St. Dev.
Age:			
55-64 65 and 01der	91 123	336.74 315.54	315.81 304.91
	T value = 0.49	Sig. = N.Ś.	
Community:			
Urban Rura1	/126   88	352.11 285.10	3T0.95 303.68
	T value = 1.57	Sig. = N.S.	• • •
Sex:			·
Male Female	89 125	327.65 322.35	327.29 296.68
	T value = 1.12	Sig. = N.S.	
Race:	× .		
White American Other	185 29	333.52 267.34	320.40 219.02
	T value = 1.07	Sig. = N.S.	
Social Class:			
Lower/Lower Middle Upper Middle/Upper	99 115	287.21 356.70	314.00 302.38
- ă	T value = -1.64	Sig. = N.S.	
iving Arrangement:			
Institution/Other	27	255.85	145.30

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Comparison Variable	No. in Group	<u>Number</u> Mean	of HoursSt. Dev.
Marital Status:	. /		
Married/Widowed Not Married	191 • 23	318.18 377.48	295.77 407.23
Т	<b>v</b> alue = -0.87	Sig. = N.S.	
Education:			
College Graduate Non-College Graduate	48 165	366.73 312.74	298.73 312.68
Ť	value = 1.09	Sig. = N.S.	
Occupation:			
Blue Collar White Collar	115 98	, 307.23 339.93	342.26 262.71
т	<b>v</b> alue = -0.77	Sig. = N.S.	,

Table 17, (continued)

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Table 18. T-test Comparison of Various Demographic Variables with the Number of Annual Learning Projects

Comparison Variab]	e No.in Group	<u>Number of</u> Mean	Projects St. Dev.
Age:			
55-64 65 and Older	91 123	3.43 3.26	2.10 <sup>-</sup> 1.85
	T value = 0.61	Sig. = N.S.	-
Community:			•
Urban Rural	126 88	3.44 · 3.17	2.01 1.87
	T value = 1.02	Sig. = N.S.	
Sex:			
Male Female	89 125	3.19 3.43	1.94 1.97
	T value = -0.89	Sig. = N.S.	
Race:			
White American Other	185 29	3.29 3.62	2.04 1.32
	T value = -0:85	Sig. = N.S.	•
Social Class:			
Lower/Lower Middle Upper Middle/Upper	99 115	2.96 3.65	1.92 ' 1.94
ŗ	[ value = -2.62	Sig. = <.01	
Living Arrangement:			
Institution/Other Apartment/Home/House	2 <sup>/</sup> 7 <sup></sup> 187	3.67 3.28	2.13 1.93
۲ ``	value = 0.88	Sig. = N.S.	

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Comparison Variable	No. in Group	<u>Numbèr (</u> Mean ·	of Projects St. Dev.
Marital Status:			<u> </u>
Married/Widowed Not Married	191 23	3.27 2.87	1.86 2.62
Τv	alue = -1.40	Sig. = N.S.	
Education:			•
College Graduate Non-College Graduate	48 165	4.00 3.15	2.13 1.87
Τv	alue = 2.51	Sig. = <.02	
Occupation:			
Blue Collar White Collar	115 98	3.02 3.69	1.87 2.01
T va	alue =-2.53	Sig. = <.02	

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Table 18. (continued)

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## References

<sup>1</sup>Roger Hiemstra, "Educational Planning for Older Adults: A Survey of 'Expressive' vs. 'Instrumental' Preferences," <u>International Journal of Agin</u> <u>and Human Development</u>, 4, 1973, pp. 147-156.

<sup>2</sup>See Roger Hiemstra, <u>The Educative Community</u> (Lincoln, Nebraska: Professional Educators Publications, 1972), for a discussion of the community's educational potential.



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#### CHAPTER V

#### SUMMARY, CONCLUSIONS, AND IMPLICATIONS

The purpose of this research endeavor was to study, analyze, and describe one segment of the adult population, namely the older learner. An attempt was made to understand what older individuals are learning, how much they are learning, and types of learning in which they would like to be involved in the coming years. It is anticipated that the information uncovered will assist in the future improvement of educational opportunity and programming for the older person, will assist adult and continuing educators in improving their own roles as facilitators of learning, and will generate a variety of research and writing.

## An Overview

The older person is the largest minority group in the United States and growing larger each year. Current research and writings have suggested that this group could use more educational opportunities in order to lead more satisfying and productive lives; however, available data show that few older people are taking advantage of the formal educational programs that are offered. The question that must be asked is why the older adult learner does not become more involved with adult and continuing education.

The problem of this study was to secure a better understanding of learning interests, activities, and obstacles of the older adult. Utilizing an interview in a field setting, data were collected from 256 Nebraskans, 55 years of age and older. A fairly random sample was obtained, although the study population included more minority group individuals, higher educated people, and more urban residents than would be expected in comparison to 1970 Census data.

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The obstacles to learning selected most often were as follows: "don't like to go out at night," "not enough time," "cost," "home responsibilities," and "job responsibilities." The top five course selections as an indication of learning interests included the following: "Stretching Your Retirement Dollar," "Tax Benefits for Older Americans," "Outdoor Flora," "Medical Care in the Retirement Years," and "Laws Affecting the Aged."

There was a statistically significant preference for instrumental forms of learning as opposed to expressive forms. Demographic characteristics were examined in comparison to the instrumental/expressive course choices. Significate differences revealed that males, rural residents, minority group individuals, and married people preferred instrumental type of courses more than their counterparts.

Learning activity was measured though a series of probing questions developed by Tough.<sup>1</sup> The average number of learning projects per person\_each year was 3.3; the average number of hours in learning was 324.56. "Enjoyment" was the most popular reason for undertaking the learning and the learner himself or herself most often planned the activity. The subject matter area most projects were concentrated in was "self-fulfillment"; "books, pamphlets, and newspapers" were the most common single source of content and information.

The learning information was also compared with various demographic variables. Upper-middle and upper class individuals, college graduates, and white collar workers were involved with a significantly greater number of learning projects. However, there were no significant differences in terms of the number of total hours spent each year in learning. Appendix C contains a table showing comparisons of the data for this study with several other studies completed on learning projects.



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#### Recommendations

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#### General Information

The primary obstacles to learning reported in this study have supported those suggested by several authors.<sup>2</sup> Many of the frequently cited obstacles relate to problems the elderly have in availing themselves of institutionally-sponsored programs. Often there are fewer opportunities, courses are not specifically designed for the older person, and the elderly are simply unaware of educational programs in formal settings.

<u>Recommendation No. 1</u>: That educators find new and non-traditional means for making learning opportunities more available to the older person.

<u>Recommendation No. 2</u>: That some of the top ranked obstacles in this study and those noted in other writings be addressed in order that educational opportunities can be utilized by older persons as a means for more fulfilling lives.

Poor health, physical limitations, and psychological problems are also prevalent obstacles to learning for many other people.<sup>3</sup> Interviewers of the older adults were asked to note on the instrument any visible or mentioned disabling health problems, such as blindness, learing limitations, psychological disorders, heart trouble, or physical handicaps. Out of the 214 people, 13 (6%) were so identified with an average of 2.77 learning projects each. This lower average would indicate that health-related obstacles do diminish learning activity somewhat.

<u>Recommendation No. 3</u>: That health educators find means to make learning opportunities more available to the older person with health problems.

The entire instrumental-vs-expressive notion suggests several implications Older adults seem to be saying they would like more instrumental learning opportunities and they are actually carrying out more instrumental learning. Another implication is that economic factors related to the life style of the older

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person may be partially responsible for the learning choices. The fact that four of the top five course selections were related to financial or legal matters lends support to the notion that inflation, fixed incomes, and other economic problems are creating new needs for instrumental knowledge and information.

<u>Recommendation No. 4</u>: That educators provide more instrumental learning opportunities to the older person.

<u>Recommendation No. 5</u>: That better means for facilitating the older learner's participation in instrumental learning be discovered and utilized.<sup>4</sup>

<u>Recommendation No. 6</u>: That the tables containing significant demographic sub-group differences in the choice of instrumental courses be studied and the information utilized in the planning of future educational programs.

Considerable learning activity is taking place among the older population, despite a variety of obstacles. Thus, the evidence of this study should help break down even more some of the myths about the declining abilities and the inactivity of the older person. As was suggested in Chapter I, education and learning can be utilized to replace the lost roles and activities that occur with age and thereby maintain morale, productivity, and a meaning in life.

<u>Recommendation No. 7</u>: That scholars continue to research in and write about the potential and ability that are possible throughout life so any believers in the myths of older age can be helped to behave differently.

Although there is much learning activity in the over 54 age group, there remain many new interests unmet and challenges to be stimulated. Partial justification for such a conclusion comes from the fact that so many course choices of all types were made.

<u>Recommendation No. 8</u>: That the information in Table 6 be utilized as a basis for future program planning and for continued efforts in the assessment of meeds.



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Much interest and activity exists around the United States in establishing educational programs for the urban elderly. "In a recent survey . . . the greatest interest was shown by participating schools in developing programs for the urban elderly."<sup>5</sup> However, we can't forget the rural and small town older person. This study should considerable individual learning activity taking place in rural areas but not nearly as much in small towns. Perhaps the various sub-groups of people in this study found to have been involved with fewer/learning projects than their counterparts simply do not have the same accessibility to learning opportunities, resources, and stimulation.

<u>Recommendation No. 9</u>: That educational leaders and institutions in the United States renew their efforts to serve rural and small town older learners.

<u>Recommendation No. 10</u>: That the availability of learning opportunity to the various demographic sub-groups shown in this study to have fewer learning projects be examined and analyzed for future program planning purposes.

The homemaker was shown in this study (see Table 13) and in the Coolican study<sup>6</sup> to have relatively few learning projects compared to several other occupational classifications. The availability of time when maintaining a home and limited access to educational resources no doubt accounts for some of the differences. At the same time the homemaker made many course choices of things she would like to do if there were no limiting constraints.

<u>Recommendation No. 11</u>: That the educational profession study ways to make learning opportunities more available to the older homemaker.

<u>Recommendation Ho. 42</u>: That reasons for lower participation in actual learning . activity by the older homemaker be examined and analyzed to assist in future program planning.

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There was considerable learning activity of a self-fulfillment or personal nature. Nearly three quarters of all the reported learning projects were in the self-fulfillment or personal/family categories. In addition, a frequently cited reason for undertaking a learning project was for pure enjoyment. Call it the 'leisure society, changing values, or the back to earth movement, people appear to be entering a stage of personal growth and satisfaction seeking.<sup>7</sup>

Recommendation No. 13: That educational program planners utilize the information in Table 14 relative to subject matter areas of actual learning for future program development. (Special attention should be given to facilitating learning of a self-fulfillment nature.)

There was little actual learning activity of a credit nature or because of some test or examination. Other related studies have reported similar findings. (see Table 22 in Appendix C).

<u>Recommendation No. 14</u>: That educators de-emphasize credit programs, the use of testing, and other elements of traditional schooling in the administration of future programs for the older learner.

<u>Recommendation No. 15</u>: That educators help the older learner to accept and be made aware of more non-traditional learning opportunities in order that negative stereotypes about education can be diminished.

Considerable tolevision watching was reported to the interviewers. As a matter of fact an immense problem interviewers had was determining what was actual learning as official to intertainment or recreation. One person may nave watched the "Watergute" marries tweely for entertainment reasons. Another person may have been truly chlightened, stimulated to carry out additional conding and study, and even spirited into an active involvement with some political contribution. At any rate, considerable tolevision viewing is taking place among the older to the in the State of Nebracia.



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<u>Recommendation No. 16</u>: That all aspects of the television medium continuously be studied and experimented with relative to the education of older adults.

Perhaps the clearest implication from this study is that educators must learn how to remove their institutional blinders and recognize all of the learning going on and needed outside of the institutional structure. This will require educators working in new roles, making learning opportunities available in new settings, 'and helping to make available more resources for learning.

<u>Recommendation No. 17</u>: That educators learn how to facilitate the use of entire communities and their many resources for learning.<sup>8</sup>

## The Adult and Continuing Educator<sup>9</sup>

There are several findings from the data that have specific implications for the adult and continuing educator. It is hoped this study and the other available or emerging data on learning projects will be explored long and hard. Roles will need to change, the nature of adult education training programs probably will require adjustment, and ways in which program teachers interact with the learners will require examination and modification.

If a good deal of learning is going on outside the institutionally-sponsored program, how can the adult educator successfully intervene? Should there even be an intervention? When should any interventions be undertaken? These are heavy philosophical and methodoligcal questions that must be debated at national meetings and in the field's publications.

<u>Recommendation No. 18</u>: That a dialogue pertaining to the role of the adult and continuing educator with learning projects be initiated by national leaders in the field.

Recommendation No. 19: That implications of the above discussion for the

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training of adult and continuing educators be derived, discussed in the field's publications, and experimented with in graduite training programs across the country.

Several study findings raise even more specific questions: How can learning projects be facilitated? How can projects be initiated? What kinds of resources can be developed for use in learning projects? How can the self-directed learner be made more efficient and the learning be accomplished more effectively? Why are so few experts chosen for assistance or so little programmed instruction used in learning projects? The answers to these questions must come from future study.

Recommendation No. 20: That the above questions be stimuli for future research, discussion, thought, experimentation, and writing by adult and continuing educators.

#### Methodological Considerations

There are a few methodological involventies as a result of this study. Certainly the probing interview technique has some real strengths that should be considered by educators. At the same time, the researcher wonders if all kinds and amounts of learning are uncoverable with the interviewing technique as it now exists. Perhaps follow-up visits and other techniques are required.

<u>Recommendation No. 21</u>: That educators be trained in the use of the probing interview as a needs assessment and resourch tool.

<u>Recommendation No. 22</u>: That the system for uncovering learning by adults be continuously developed. refined, and r portoo.

## Additional Research deeds

A study of this nature would be quite incomplete if it did not give birth to some new questions and ideas. Therefore, following are several questions for other researchers to consider. Some of the questions could be the should be

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hypotheses to be tested and others could be utilized as bases for exploratory studies.

- 1. What obstacles actually stop or prevent older learners from participating in learning projects? Are such obstacles prevalant throughout the United States or across various demographic sub-groupings?
- 2. Are offerings by educational institutions across the country mainly expressive in nature?
- 3. Will the findings on I-VS-E choices in comparison with demographic variables hold throughout the United States?
- 4. What kind of needs are being fulfilled through the choice and carrying out of instrumental types of learning?
- 5. Will the findings on learning projects by older adults hold throughout the United States?
- 6. How can learning projects be initiated most effectively?
- 7. Can material resources be made more helpful and attractive to learning project initiators?
- 8. How could television be utilized in learning projects?
- 9. Could television be utilized more effectively in aiding the learning efforts of older adults?
- 10. Why do divorced or separated people spend more time on vocational/occupational earning projects? (That question is just an example of the type of questions possible to raise in examining various of the comparisons between learning project information and the demographic variables.)
- 11. Why do the number of learning projects diminish with age? Obstacles? Availability? Interest?
- 12. How can the older homemaker be assisted with learning activity to have a more satisfying life? Should she?
- 13. How can the learning efforts of the self-directed learner be made more effective and efficient?
- 14. Is poor health a factor in the amount of learning undertaken in a year? -
- 15. Do small town older learners throughout the United States undertake fewer Learning activities than their big city counterparts? If yes, why?
- 16. How can the adult and continuing educator be more helpful within the world of learning projects?

#### <u>Conclusions</u>

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Older people can, want to, and do learn? It is hoped that this study provides a little more evidence to dispell some of the negative stereotypes about the elderly that have persisted over time. As a matter of fact, it is hoped that several stereotypes are feeling some loose and vibrating underpinnings. The minority person, the less educated individual, the blue collar workers, and the lower class person in this study were all busily engaged in many hours of learning each year.

In addition, the self-planner, independent learner is very visible in Nebraska as he or she is in other parts of the country.<sup>10</sup> Much of that learning is instrumental in nature.

One final conclusion relates to the potential of the older persons themselves. The immense learning involvement of the study population, their observed and reported enthusiasm to assist with the research activity, and their keen interest in the fact that someone cared to know what they are doing made this research project most rewarding. As the elderly are the fastest growing minority in the United States, everything possible should be done to serve them better. Hopefully, the information\_ uncovered through this study will help in the facilitation of better lives for older persons and a maximization of that existing potential.

## An Invitation

No research effort and corresponding analysis endeavor should end with the completion of a report. It is hoped that interested readers will be stimulated to make their own inquiries into the topic of the older adult and learning. Questions, comments, suggestions, and challenges are welcome and sought.

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#### References and Footnotes

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Tough, op. cit.

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Several chapters in Grabowski and Mason, <u>op. cit</u>., Goodrow, <u>op. cit</u>., and previous writings by Hiemstra, 1972, <u>op. cit</u>. discuss various obstacles.

3

W. Dean Mason, "Aging and Lifelong Learning," <u>Journal of Research and</u> <u>Development in Education</u>, 7, Summer, 1974, p. 73.

Because so many of the credit and non-credit learning opportunities offered by educational institutions are the more glamorous sounding expressive courses (art, travel, music, crafts, etc), the older person is often reluctant to take or is unaware of instrumental courses. The Gerontology Center at the University of Nebraska-Omaha recently attempted to offer and publicize a number of instrumentaltype activities. The activities had very low participation rates and some had to be cancelled. Perhaps, too, the titles often utilized have unappealing connotations.

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Mason, <u>op. cit</u>., p. 73. In addition, DeCrow, <u>op. cit</u>., p. 69, found that more <u>t</u>han 50% of the educational offerings took place in urban or suburban areas.

Coolican, op. cit., or refer to Table 22 in Appendix C.

The researcher recently tested this conclusion in his church. A mailed quest, maire was returned by 40 people, more than half of whom were over the age of 50. Out of 184 course choices made from a list of potential courses the church could sponsor, 65 (35.3%) were in personal growth or personal communication skill building areas. However, the related courses represented only 24% of the total list of courses.

Arguments related to this recommendation have been made elsewhere by the author. See Roger Hiemstra, <u>The Educative Community</u> (Lincoln, Nebraska: Professional Educators Publications, 1972), and "Community Adult Education in Lifelong Learning," <u>Journal of Research and Development</u> in Education, 7, Summer, 1974, pp. 34-44.

Tough, <u>op. cit</u>., addresses in greater detail most of the issues raised in this section.

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See Table 22, Appendix C, and the corresponding related original references.





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APPENDIX A

DATA COLLECTION MATERIALS AND RELATED

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INFORMATION



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Suppose you had an opportunity tomorrow to enroll in an adult education course that met once a week for two hours for six consecutive weeks. By this I mean that you had the time, the finances, and the transportation to wherever the course would be offered. In which of the following courses might you be interested in enrolling. I will read them to you and you may select as many as you have an interest in by indicating yes or no.

ASTRONOMY: FROM MYTH TO SCIENCE STRETCHING YOUR RETIREMENT DOLLAR THE ARCHAEOLOGY OF MEXICO CONVERSATIONAL SPANISH FILMS AND PHOTOGRAPHY \_ MODERN RELIGIONS \_ THREE BLACK AUTHORS OUTDOOR FLORA WILLS AND ESPATE PLANNING NUTRITION AND THE AGING PROCESS \_ LEISURE ACTIVITIES FOR RETIREMENT YEARS NATURE PHOTOGRAPHY READING EFFICIENCY \_ NEW OPPORTUNITIES IN REFIREMENT THE HIGH COST OF DYING FINANCIAL ASPECTS OF RETIREMENT COUNSELING BASICS OF LIP READING MEDICAL CARE IN THE RETIREMENT YEARS \_ FUNDAMENTALS OF INVESTING TOURISM AND YOUR TRAVEL DOLLAR TAX BENEFITS FOR CLDER AMERICANS \_\_ MUSHROOM HUNTING \_\_ ROCK COLLECTING FOOT PROBLEMS AND CARE ART AP RECIATION \_ THE NATURE OF PREJUDICE \_\_\_ BEGINNING PAINTING LANS AFFECTING THE AGED \_\_\_ INTRODUCTION TO CRAFTS MUSIC APPRECIATION MID-WESTERN BIRDS

PHYSICAL FITNESS WITH FUN

Are there any other course titles or topics that you would like to add?

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Now I'm interested in listing the things <u>you</u> have tried to learn during the past year. When I say "learn" I don't just mean learning the sorts of things that people learn in schools and colleges. I mean any sort of deliberate effort at all to learn something, or to learn how to do something. Perhaps you tried to get some information or knowledge -- or to gain new skills or improve your old ones -- or to increase your sensitivity or understanding or appreciation. Can you think of any efforts like this that you have made during the past 12 months?

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regardless of whether it was easy or hard, big or little, important or trivial, serious or fun, highbrow or lowbrow. (P) It doesn't matter when your effort started, as long as you have

you made to learn anything at all. Anything at all can be included,

(P) Try to think back over all of the past 12 months -- right back to

\_ of last year. I am interested in any deliberate effort

spent at least a few hours at it sometime since last (month)

(P) We want to get as <u>complete</u> a list as possible, because we think that people make far more attempts to learn than anyone realizes. We can include any sort of information--knowledge--skill--or understandar at all that you have tried to gain -- just as long as you spent at least a few hours at it sometime during the past 12 months.

(P) Can you recall any other efforts to learn that were related to your home or your family? Anything related to your hobbies or recreation? Your job? Your responsibilities in various organizations, or clubs, or in a church or synagogue, or on a committee, or some other responsibilities? Anything related to some teaching, writing, or research that you do outside of your job?

(P) Going back over the past 12 months, can you recall any other times that you tried to learn something by reading a book? When you read newspapers or magazines, do you read certain topics or sections because you want to remember the content? Have you tried to learn anything else from booklets, pamphlets, or brochure:? From memos, letters, instructions, or plans? From technical or professional literature? From material from a library? From workbooks or programmed instruction? From an encyclopedia or other reference work?

-85-ID (F) Have you learned anything at all from a medical doctor? From a lawyer? From a counselor or therapist? From a financial or tax advisor? From a social worker? From a private teacher? From a specialist or expert? From individual private lessons? (F) Have you learned anything from documentaries or courses on television? From TV news or some other TV programs? From radio?... In a theatre? Have you tried to learn from conversations? Or from osking questions: that is, have there been any topics or areas that you have tried to learn about from your friends or other people? Have you deliberately soucht to learn by seeking out stimulating individuals? Have you tried to learn anything from your spouce or other relatives? From a neighbor? (P) Perhaps you have learned something in some group or other? Perhaps in some meeting or discussion group? From attending a confer-ence? From a retreat or weekend meeting? From an institute or short course or workshop? From a committee or staff meeting? From taking a course? From attending evening classes, or lectures, or a speech? From a correspondence course? From attending a club or group meeting? (P) Perhaps tape recordings or phonograph records or "a language lab" helped you learn something during the past year? Have you learned in a church or synagogue? In a college, university, or school? In some community organization? In a company or factory or office? In a government program? In an exhibition, museum, or art gallery? In some vacation spot? Now I have a list of some of the things people learn (sheet one). It may remind you of other things that you have tried to learn during the past 12 months. Take as long as you want to read each word, and to think about whether you have tried to learn something similar. (Give him or her the sheet, or read it aloud if necessary.) ON, that gives us a fairly complete list. If you suddenly think of setting else you have learned, though, please tell me.

ERIC

Now I want to find out a bit more about each of your efforts to learn. Let's begin with the first one on the list. It was your efforts to learn \_\_\_\_\_. Here is a sheet that will help us learn more about your efforts and estimate the number of hours that you spent at learning this, and the number of hours spent at planning and preparing for that learning. (Hand him or her the second sheet.)

(If possible, pin down and record just what the learning segments were. For example, you could ask, "How did you go about learning this? How was it learned? What did you do? Was there anything else you did to learn \_\_\_\_\_?" Examples that you might record to help understand the total effort are: Watched an expert, listened to a record, read, bracticed, attended a meeting, etc. This list of activities is primarily for your benefit in helping the person estimate his or her time accurately: we do not need the data for any specific purpose other than it might help you later determine the subject matter source. In other words, don't make any special effort to get it or to record it carefully, but on the other hand don't discard it either.)

(Ask for a time estimate in total number of hours. If the number of hours is below 14, check two criteria. First, "Within some sixmonth period during the past year, did you spend at least <u>five</u> hours at the learning itself--that is, at the \_\_\_\_\_\_ learning effort." Second, "Within some six-month period or shorter period during the past year, did you spend at least seven hours altogether on the learning effort?" If both criteria are met write yes and proceed; if both are not met write no and move to the next learning project.)

(Ask them to select whether they have been active or not active.) (Determine their reason for undertaking the project. Ask, "in any of your efforts on the learning endeavor, was <u>credit</u> any part of your motivation?' That is, did you hope to use any of your learning efforts for academic credit--towards some degree, cartificate, diploma, or grade achievement? (Pause) Was any of your learning directed toward passing a test, examination, or course--or toward some license or a driving test? (Pause) Or was it toward some requirement or examination or upgrading related to a job? (Pause) Or did you undertake the learning activity for your own enjoyment or self-improvement? NOTE: you will need to determine the primary reason.)

Now we are going to think about your learning effort and try to decide who or what was the director or leader. That is, who decided what you would learn--and how you would learn--whenever you spent some time trying to learn? Here is a sheet explaining what I mean (sheet three). (If no one resource was primarily (51/2) responsible, classify it as mixed. If he or she does not seem to understand, or if you feel doubtful about the response, ask who the <u>marticular</u> director or leader was. If you anticipate difficulty or if the learner asks, say that we are interested in who the leader was for the past 12 months rather than earlier.)

(Finally, determine the major source of subject matter. That is, what resource provided <u>most</u> of the content-a book, a pro ski instructor, a discussion group, a television broadcast, etc.)

(Repeat for each learning project, recording the appropriate data.) That completes the interview. Thank you very much for your time and assistance. I think your efforts will help to make education more meaningful in the lives of many adults.

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		ID	`
	Learning project #( )		
	How was it learned?	5 	
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	Number of hours?	(Criteria check	)
	Not very active now	or Definitely active now	, 
	Reason for project	سر ه به زمانها این و با از این و ا	, 
		۰	
	Source of subject matter	و و و و و و و و و و و و و و و و و و و	~==
•	a state and a state of the stat		ya afili da taku kari ya Ayaba ya tu daga. Ma afili a taku
		(Criteria check	)
.'	Not very active now	or Definitely active new	-
	Reason for project _/		
	Director of learning		فو مهم به
	- · · · · · · · · · · · · · · · · · · ·	9.	. aerong ,-g
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Some things that people learn about

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1.	A sport or game; swimming; dancing; bridge
2.	Current events; public affairs; politics; peace: biography
3.	Sewing; cooking; homemaking; entertaining
4.	Driving a car
5.	Home repairs; woodworking; home improvement project;
	decorating and furniture
6.	A bobby on enoting and furniture
	A hobby or craft; collecting something; photography.
8.	"Raising a child; discipline; infant care; child's education
	Nature; agriculture; birds
.9.	Mathematics; statistics; arithmetic
10.	Speed reading; effective writing; public speaking; vocabulary;
	Literature
11.	Science; astronomy; man in space
12.	Health; physical fitness; posture; clothes; appearance
13.	History; geography; travel; some region, city, or neighborhood
14.	rersonal finances; savings; insurance: investing: purchasing
	something
15.	Psychology; effective relationships with people; groups;
	leadership; social skills
16.	· Typing; data processing; mechanical skill'
17.	Some personal problem; mental health; an emotional problem;
•	an illness or medical condition
18.	Various careers; choosing an occupation; finding a job
19.	Gardening; landscaping
20.	Something related to a job or responsibility or decision
21.	Musical instrument; singing; music appreciation
22.	Professional or technical competence; sales skills; how to
	teach or supervise
23.	
	Some aspect of religion; ethics; philosophy; moral behavior
24.	Current changes in society; the future; problems in cities;
	pollution; sociology
23.	Relationship with the opposite sex; manners; marriage;
56	relationships within the family
26.	Art; painting; architecture; the opera; movies; television
27.	Business management; economics; business
28.	Sensory awareness; human potential; communication; understanding
• •	oneself; efficiency
29.	New techniques; a new way of doing something; an innovation
30.	Spanish; French; some other language
•	

1

SHEET ONE

1. We need your best guess about the total amount of time that you spent at all aspects of this particular learning effort during the past 12 months.

Please include the time you spent reading -- listening -observing -- or learning in some other way -- if your <u>main</u> purpose during that activity was to gain and retain certain knowledge or skill. In other words, we will include all the times during which at least <u>half</u> of your total motivation was to gain certain knowledge or skill, and to retain it until at least two days later.

In addition to the time you spent at the actual learning itself, please include all the hours that you spent, during the past 12 months, at deciding about the learning, planning the learning, and preparing and arranging for it. This can include any time spent at deciding whether to proceed with the learning -deciding what to learn -- deciding how to learn -- deciding where to get help -- seeking advice about these decisions (from other people or from printed materials) -- traveling to some of the learning activities, such as a meeting or practice session or library -- arranging appropriate conditions for learning -obtaining that book or person for the actual learning -obtaining that book or reaching that person.

Of course, you cannot remember <u>eractly</u> how many hours, so\_\_\_\_\_ just give your best guess. /If you wish, just choose the closest number from the following list:

1 3 6 10 20 40 70 100 140 180 or more

1

2. Which of these following two answers best describes this particular learning effort at the present time:

(A) NOF VERY ACTIVE -- that is, you have dropped it or completed it, or you have set it aside for a while (or you are spending much less time at it now than you were before)

OR

(B) DEFINITELY ACTIVE -- that is, you are definitely continuing this learning effort right now, and you are spending about as much time as ever at it.

SHEET THO

There are four different sorts of learning efforts, according to who directs them. That is, a person's efforts to learn can be classified according to who was <u>responsible for the day-to-day</u> <u>planning</u>. We have to look at who planned or decided <u>exactly what</u> <u>and how</u> the person should learn at each session. For example, who decided what the person should read or hear, or what else he or she should do in order to learn?

### 1. <u>Group-planned learning</u>

In some learning projects, you may decide to attend a group and let the group (or its leader or instructor) decide what and how you learn during each session. A group may be of any size, with a minimum of five persons. Examples might be lectures, study groups, workshops, small informal groups, or conferences.

#### 2. <u>One-to-one learning</u>

In some learning projects, the planning and deciding of what to learn and in what order is handled by one person, who helps the learner. in a one-to-one situation. That is, there is one helper (or instructor, teacher, expert, or friend) and there is one learner. These two persons interact usually face-to-face, although it could be by telephone or by correspondence. Even if 2-4 learners were receiving individualized attention from one other person at the same time, it would be included here.

## 3. Material Resource learning

In these learning projects, the major part of the detailed direction on what to learn and what to do at each session resides in some material resource, object, or nonhuman resource. A programmed instruction book, a set of tape recordings, or a series of TV programs are examples. The learner follows the programs or materials and they tell him or her what to do next.

### 4. Self-planned learning

In other learning projects, the learner him or herself retains the major responsibility for the day-to-day planning and decisionmaking. He may get advice from various people and use a variety of materials and resources, but he retains the responsibility for deciding what activities to try next, what to read, and what skill or knowledge should be next in the sequence. Instead of turning the job of planning over to someone else, he makes the day-to-day decisions alone.

#### SHEET THREE

	ĺ			
÷ , ,	The Elderly and Learning ProjectsDa	ta Sheet		
(A nine "	9" always equals no response or answer)		,	
Interview	ID (Print here)	1-3	-	
Card Numb	er	4.	_1	
Commúnity	l=Lincoln 2=Rural 3=Other	5		
Quadrant	1=I 2=II 3=III 4=IV 5=Other	, 6	,	
Sex	l=Male 2=Female	7		
Race	l=Caucasian 2=Negroid .3=Mexican-American 4=Other	8		
*Social Cla	ass l=Lower 2=Middle-Blue Collar 3=Middle-White Collar 4=Upper	9.	, <u>'a</u>	•
Living Arrange	l=Apartment 2=Home ements 3=Institution 4=Other	10.,		
- Age (actu	aal)	11-12	J	•
Marital St	atus l=Married 2=Married/Widowed 3=Single 4=Divorced/Separated	13		
Years of F Educati	formal '1=Under 8th grade 2=8-11th grade on 3=H.S. grad. 4=Some college 5=college grad. 6=graduate training	14	<u>.</u>	
2=0n	ning l=Vocational/technical school the job training 3=correspondence study iness school 5=other	15		
Profession Occupatio	n 2=Business manager/lessor profes. 3=Administrative personnel	16.	 8 - <sub>y</sub>	
	4=Clerical, sales, technicians 5=Skilled manual employee 6=Machine operator/semi-skilled 7=Unskilled 8=Homemaker	đ	· · · ,	
1. Obstac	les to learning l=Yes 2=No		-	· ·
Cost	· · · · · · · · · · · · · · · · · · ·	17	-	
Not en	ough time	18		
. Home re	esponsibilities	19		
Job res	sponsibilities	. 20	4 100,710	
38 Amount	of time required to complete program	21	سمنو	*

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	<u>Obstacles</u> (continued) 1=Yes 2=No			
	I'm too old to begin learning		22 .	· ·
	No information about what I want	•	23	-
	Courses aren't scheduled when I can attend		24	°
	Strict attendance requirements		25	
:	Low grades in the past	,	26	
	Courses don't seem to be available	/	27	~
	Too much red tape in getting enrolled		28	
	I don't have enough energy and stamina		.29	• • •
	I don't enjoy studying		30 <sup>-</sup>	
	Courses often are not interesting		31	
	No transportation available		32 ·	-
	I'm tired of school and classrooms		33	، مىش
	I don't méet requirements to begin	ī	34	آ آ
	No way to get credit for a degree	-	35	2
c	Don't know what I'd like to learn	1	36	genants
	Friends or family don't like the idea	```	37	
	Don't like to go out at night		38	
	My health is bad		39	
	No place to study or practice	1	40	• •
	Not confident of my ability		41	* #
2.	Course_selection 1=Yes 2=No	•		. <b>.</b>
	Astronomy: From myth to science		42	
	Stretching your retirement dollar		43	
	The archaeology of Mexico		44	
	Conversational Spanish		45	
ů	Films and photography		4.6	
	Modern religions		47	
v	Three Black authors		48	

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<u>Courses</u> (continued) l=Yes 2=No	
Outdoor flora	49
Wills and estate planning	50
Nutrition and the aging process	51
Leisure activities for retirement years	52
Nature photography	53
Reading efficiency	54
New opportunities in retirement	55
The high cost of dying	56
Financial aspects of retirement counseling	57
Basics of lip reading	58
Medical care in the retirement years	59
Fundamentals of investing-z	60
Tourism and your travel dollar	61
Tax benefits for older Americans	62
Mushroom hunting	63
Rock collecting	64
· Foot problems and care	65
Art appreciation	66
The nature of prejudice	67
Beginning painting	68
Laws affecting the aged	· 69
Introduction to crafts	70
Music appreciation	. 71
Mid-Western birds	72
Physical fitness with fun	73

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Number of occupational, vocational projects Number of occupational, reality projects Number of personal, family projects Number of social, civic projects Number of learning for self-fulfillment projects Learning project #1: (Card two; 1-3, 5-16 dup.) .a. Estimated number of hours/project b. How active lenot very active now 2 = definitely active now 2 = 0 = 4 2 =		3. Lea	rning proje	cts informa	tion	•	•	K <b>0</b>	,	× ,	,
Number of personal, family projects       76-77          Number of social, civic projects       78         Number of learning for self-fulfillment projects       79-80         Learning project #1: (Card two; 1-3,5-16 dup.)       4       2         .a. Estimated number of hours/project       17-19         b. How active l=not very active now       20       2         .a. Estimated number of hours/project       17-19         b. How active l=not very active now       21         .a. Estimated number of learning 3=material resource       21         .a. Estimated number of learning 5=mixed       21         d. Primary director l=group 2=one*to-one       22         .a. Source of l=group,group instruct.       23         .a. Estimated materials 6=TV, redio, recording, casettes       23         .a. recording, casettes       24         .a. estimated       41       48         .a. for the second materials 6=TV, redio, recording, casettes       56         .a. gas definitely       50       57         .a. for the second materials for the second materials for the second materials for the second material second materials for the second material second material second materials for the second material second materialsecond materials for the second material second material					-	rojects		74-75	<sup>ی</sup> .		1
Number of social, civic projects       78         Number of learning for self-fulfillment projects       79-80         Learning project #1: (Card two; 1-3, 5-16 dup.)       4.       2         .a. Estimated number of hours/project       17-19       20         b. How active l=not very active now       20       4         c. Frimary reason l=credit 2=test, exam.       21       -         .a. Estimated number of learning 3=material resource       22       -         d. Primary director l=group 2=one+to-one of learning 3=material resource       22       -         .a. Source of l=group, group instruct. subject matter 2=friend, relative, newspoper 5=programmed materials 6=TV, radio, recordings, casettes       23       -         .a. Estimated       34       41       48       55       -         .a. 2       .a. 2       .a. 2       .a. 2       -       -         .a. 2       .a. 2       .a. 2       .a. 2       -       -         .a. 5       .a. 2       .a. 2       .a. 2       .a. 2       .a. 2       -         .a. 5         .a. 5       .a. 5       .a. 5       .a. 5       .a. 5       .a. 5       .a. 5       .						, ,			******		•
Number of learning for self-fulfillment projects Learning project #1: (Card two; 1-3, 5-16 dup.) a. Estimated number of hours/project b. How active l=not very active now c. Frimary reason l=credit 2=test, exam. 3=j6b 4=enjoyment 5=mixed d. Frimary director l=group 2=one*to-one of learning 3=material resource 4=self-planned learning 5=mixed e. Source of l=group, group instruct. 3=expert 4=books, namphlets, newspacer $5=programmed materials 6=TV, radio, recordings, casettes 7=displays, exhibits, inuseums, galleries7=337444545454549562936447779-807-19204204212242323242426455565730374451587279-6170772120454545454956575877587920575877202720272122233037445158792426272027212836435057303744515879233037445158792330374451587923303037445158792330374451587923303744515879233037445158792330303141792330303131313279233030313131313279233030313131313232323333323333333441414855566235643556623564355057505750575057505750575057505750575057$		• •	1		-						•
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a. Estimated number of hours/project $17-19$ b. How active l=not very active now $2=def initely active now$ c. Primary reason l=credit 2=test, exam. 3=job 4=enjoyment 5=mixed $21d. Primary director l=group 2=ope=to-one of learning 3=material resource 4=self-planned learning 5=mixed 22e. Source of l=group, group instruct. 23subject matter 2=friend, relative, newspaper 5=programmed materials 6=TV, radio, recordings, casettes 7=displays, exhibits, museums, galleries 8=mixed\frac{72}{24-26} = \frac{73}{35} = \frac{42}{42} = \frac{49}{49} = \frac{56}{56} = \frac{75}{72} = \frac{34}{35} = \frac{42}{42} = \frac{49}{29} = \frac{56}{56} = \frac{76}{72} = \frac{76}{20} = \frac{76}{77} = \frac{20}{77} = \frac{27}{79} = \frac{23}{23} = \frac{76}{30} = \frac{76}{72} = \frac{79}{79} = \frac{23}{23} = \frac{36}{30} = \frac{76}{79} = \frac{27}{79} = \frac{23}{23} = \frac{36}{30} = \frac{76}{79} = \frac{27}{79} = \frac{23}{23} = \frac{36}{30} = \frac{76}{79} = \frac{27}{79} = \frac{23}{23} = \frac{36}{30} = \frac{41}{45} = \frac{48}{45} = \frac{55}{46} = \frac{62}{79} = \frac{76}{79} = \frac{27}{79} = \frac{23}{23} = \frac{30}{30} = \frac{76}{72} = \frac{79}{79} = \frac{23}{23} = \frac{30}{30} = \frac{76}{72} = \frac{29}{79} = \frac{23}{30} = \frac{36}{30} = \frac{41}{49} = \frac{48}{55} = \frac{52}{62} = \frac{59}{79} = \frac{56}{72} = \frac{79}{79} = \frac{23}{23} = \frac{30}{30} = \frac{76}{72} = \frac{62}{79} = 6$		Number	of learning	for, self-f	ulfillm	ent proj	ects	79-80			
b. How active l=not very active now 2=definitely active now 2=definitely active now 2=definitely active now 2=definitely active now 2=0 - 4 c. Primary reason l=credit 2=test, exam. 21 - 3=job 4=enjoyment 5=mixed 22 - 4 d. Primary director l=group 2=ope+to-one of learning 3=material resource 4=self-planned learning 5=mixed 23 - 23 - 23 - 23 - 23 - 23 - 23 - 23		Léarnin	ng project #	l: (Card t	wo; 1-3 <sub>.</sub>	,5-16 du	p.)	. 4.	_2.`	•	•
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of learning 3=material resource 4=self-planned learning 5=mixed e. Source of 1=group, group instruct. subject matter 2=friend, relative, methin 3=expert 4=books, pamphlets, newspaper 5=programmed materials 6=TV, radio, recordings, casettes 7=displays, exhibits, museums, galleries 8=mixed $\frac{72}{24-26} - \frac{191}{31-33} - \frac{38-40}{38-40} - \frac{45}{45} + \frac{46}{55} - \frac{52-54}{55} - \frac{52-54}{55} - \frac{52}{55} - \frac{52}{55}$	•	۰ C,					am.	21	gus dag	•	•
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		37			51		58	** *	1 64		

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#### Miscellaneous Notes for Interviewers

Do not interrupt the person's list of learning projects in order to ask criterion questions unless it is clear that the person is far off the track. Whenever there is a long pause, though, you may want to clarify the one or two or three possible learning projects that have just been mentioned. Use all your insight and questioning skill in order to understand just what the real focus was. Try to become precise about just what the person was trying to learn. Especially if he selects one of the methods or subjects from our lists, try to get him or her to use his or her own phrase rather than ours. Record the desired knowledge and skill, the task or responsibility, the question or interest, or whatever the focus was.

'Do not quarrel with the person's decisions and data, but do sometimes make one or two attempts to check his understanding of the question or to clarify his answer. Record for me any doubts you have about the responses you get.

Whenever the person mentions some activity or some area of his life that ycu think might have produced other learning projects, too, ask him about this possibility.

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# APPENDIX B

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MISCELLANEOUS TABLES INSTRUMENTAL AND

EXPRESSIVE

PREFERENCES

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## Table 19. Crossbreak Comparisons of Various Demographic Variables with Instrumental or Expressive Learning Projects<sup>a</sup>

Comparison Variable	Instr .No.	umental %	Expr No.	essive %	Totals
Age:					
55-64 65 and 01der	· 54 <u>62</u>	73.0 60:2	4 20 <u>41</u>	27.0 39.8	74 <u>103</u>
Totals	116		61		• 177
,	= 2.57	Sig. =	N.S.		۰ ۲
Sex:	•			**	۰ ۱
Female . Male	59 57	59.0 74.0	41 <u>20</u>	41.0 26.0	100 
Totals	• 116 <sub>.</sub>	- ' >	. · 61	•	177
· * x <sup>2</sup>	= 3,71	Sig. =	<.05		•
Location:	۰. ۲			)	**
Urban Rural	60 • , <u>56</u>	59.4 73.7 -	41 <u>20</u>	40/.6 26.3	101 76
· Totals	ʻ 116		61	, , «	"
α X <sup>2</sup>	= 3.31	. Sig. =	<.05		<b>°</b>
Occupation: •	* , ^	* * *	~	3	, *
Blue Collar White Collar	53 <u>63</u>	66.3 65.6	27 <u>33</u>	33.8 34.4	80 96
Totals	116	<i>F</i>	60	¥	<b>176</b>
χ <sup>2</sup> :	= .01 <sup>`</sup>	Sig. = 1	N.S.	• ა	
Education:		* * * , *		1	
College Graduate Less than College Grad.	23 <u>93</u>	57.5 68.4 -	17 <u>43</u>	42.5 31.6	`*40 <u>136</u>
Totals	· 116		60		176
, χ <sup>2</sup> =	<b>1.18</b> ,	Sig. = ≀	N.S.	,	

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# Table 19. (continued)

Comparison Vari	able	<u>Instru</u> No.		Expr No.	essive %	• Total
ace:		·			•	
White American Other	<i>,</i>	1.00 <u>16</u>	65.4 66.7	53 <u>8</u>	34.6 33.3	153 . <u>24</u>
•.	Totals	. 116	6	. 61	•	176
arital Status:	χ <sup>2</sup> π <sup>*</sup>	.01	Sig. =	N.S.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Married		88	°73 Q	31	26.1	119
Not Married		, <u>28</u>	`73,.9 48`.3	30	51.7	58
•	Totals	116		61		177
,	$x^{2} =$	10.27	Sig. =	<b>&lt;.005</b> ∖∖		

"Instrumental projects preference was determined to be when a person had carried out more instrumental projects than expressive projects (vice versa for expressive preference). In addition, 79 individuals had an equal number of instrumental and expressive learning projects and were not included in this table. There were two instances of non-response.

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Comparison Varia	able	<u>Inst</u> No.	rumental (I) %	Exp No.	r <u>essive (E)</u> %	,No.	= E <sup>a</sup>	<sub>,</sub> Totals
Location:		Q	· · ·		· · · ·	· <b>%</b>	-	
Urban Rural/Non-Town Rural/Small Town		82 22 54	56.6 57.9 74.0	49 7 <u>12</u>	33.8 18.4 16.4	14 9 <u>.7</u>	9.7 23.7 9.6	145 38 73
	Totals	۽ 158		68	•	_30		256
•	-		$\chi^2 = 14.56$		Sig. = <.01			• •
Sex: '				i		`		
Male Femále	, ,	75 83	71.4 55.0	20 <u>48</u>	19.0 31.8	10 <u>20</u>	9.5 13.2	105 151
•	Totals	158 <sup>.</sup>		68		30	٩	<u>~</u> 256
Race:	e ,	*	$x^2 = 7.24$	•	Sig. = <.05	•	<b>A</b> <sup>**</sup>	
White American Other	۵	133 25	58.6 86.2	66 2	29.1 6.9	28 2	12.3 6.9,	- 227 
с. Х	Totals	158		68		30	4	256
,		-	$\chi^2 = 8.68$		Sig. = N.S.			
ocial Class:			. ``				. ,	
Upper . Upper Middle Lower Middle Lower		6 69 77 <u>6</u>	37.5 63.3 66.4 40.0	8 <sup>°</sup> 32 23 5	50.0 29.4 19.8 33.3	2 8 16 4	12.5 7.3 13.8 26.7	16 109 116 <u>15</u>
	Țota 1 s	158		68		30	۲.	256
	,	,	$\chi^2 = 14.07$		Sig. = <.05			

Table 20. Crossbreak Comparisons of Various Demographic Variables with All Instrumental or Expressive Learning Preferences

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a In thirty cases the number of instrumental choices equaled the number of expressive choices.



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Table 20. (continued)

		<del>,</del> ,,,,,,,						
Comparison Varia	able	<u>Instrum</u>	ental (I) %	Express No.	ive_(E) %	I No.	<u>= E<sup>a</sup> %</u>	Totals
Living Arrangement:	EX	× .		,				
Apartment Home/House Institution Other	•	22 121 10 <u>5</u>	68.8 62.7 , 45.5 55.6	- 8 - 48 - 9 - 3	25.0 24.9 40.9 33.3	2 24 3 <u>1</u>	6.3 12.4 13.6 11.1	32 193 22 9
	Totals	158		68		30 <sup>/</sup>		256
Age:		x <sup>2</sup>	= 4.35	, Sig.	= N.S.		0	×
55-64 65 and Older	<b>.</b> .	67 <u>91</u>	67.7 58.0	24 44	24.2 28.0	8 22	8.1 14.0	99 <u>157</u>
•	Totals	158		68	, , ; ,	· 30		256
Marital Status:		x <sup>2</sup>	= ,3.08	Sig. ∛ ♥	**	•	•	
Married Widowed Single Divorced/Separated	•	107 •38 8 5	66.0 58.5 38.1 62.5	,35 19 11 <u>3</u>	21.6 <sup>-2</sup> 29.2 52.4 37.5	20 ,8 ,2 _0	·12.3 12.3 9.5 0.0	162 65 21 <u>8</u>
	Totals	158		<b>`</b> 68 、	i .	, 30 <sup>‡</sup>		ື. 256
<b>#</b> .	١	x <sup>2</sup>	= 10.90	S.ig.	= N.S.	· ·	- ,	•
Education:		*	•	, ```	1 t. 1 <b>k</b>	-		
Under 8th Grade 8-11th Grade H.S. Graduate Some College College Graduate Graduate Training		18 38 53 20 14 <u>14</u>	75.0 61.3 64.6 54.1 56.0 56.0	2 13 21 14 10 . <u>8</u>	8.3 21.0 25.6 37.8 40.0 32.0	4 11 8 3 1 3	16.7 17.7 9.8 8.1 4.0 12.0	24 62 82 37 25 25
. ·	Ťotals ∮	157 x <sup>2</sup>	= 13.26	68	= N.S.	30		255

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Table.20. (continued)

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Comparison Variable	. <u>Inŝtrum</u> No:	nental (I) %	Express No.	sive (E)	No.	<u>= E<sup>a</sup> .</u> .	Total
cupation:			<b>J</b>	•	· 8	······································	• • •
Higher Executive/ Professional	8	, 72.7	ן ר	9.1	× 2	18.2	- 11
Lower Executive/	* 1		4	J.1 	· ·	10.2	
Professional	30 .	65.2	∘ 1 <b>3</b> €	28.3	* 3	6.5	46、
Administrative Personne Clerical, Sales, Techni		62.5	<u>5</u>	31.3	. 1	6.3	16
Skilled Manual Employee	28 $28$	61.5 68.3	13 11,	-33.3 26.8	2	`5.1 4.9	2 39 41
Machine Opérator/	.0 _0 (	* , 3	115	20.0	÷.	4.5	• • • • • •
Semi-Skilled	11 ,	68.8	1 ·	<b>6.3</b>	<u>`</u> 4	25.0	/ 16
Unskilled	5	62:5	1	` 12.5″	2	25.0	8
Homemaker	> <u>. 41</u>	52.6	<u>23</u>	29.5	<u>14</u> .	17 <b>.</b> 9	78
'\ Total	s 157 ;	,	68;	<b>.</b> .	30		. 255
• •			uu,	*	•.	•	, LUU
	γ <sup>2</sup> χ <sup>2</sup>	= 18.31	) Sig	j. = N.S.	, ,	_ 1	
Comparisone Variable	nstrumental a No. i	*	instrument			essive	<u> </u>
· · · · · · · · · · · · · · · · · · ·	Group			t. Dev.	Mean	• . St. I	Dev:
Age:							
Age.				\ \	1 × /	-	•
55-64 . 65 and 01der	101 155	2.0 1.3	38	1.76 1.33 -	1.03 1.08	1:21 1.26	
55-64		_ 1.3 T	3 8 value = 3 Sig. = <.	1.33	1.08 T Valu		5
55-64	155	_ 1.3 T	8 value = 3	1.33	1.08 T Valu	1.26 ue =30	5
55-64 65 and 01der	155 °	_ 1.3 T	8 value = 3 Sig. = <. 8	1.33	1.08 T Valu	1.26 ue =30	

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Table 21. (continued)

Comparison Variable	No. in Group <sup>a</sup> »	<u>Instru</u> Mean	mental St. Dev.	Expres Mean	sive St. Dev.	•
Location:				•	î î	
Urban Rural	145 111	1.64 → 1.65	1.58 1.49	4.21 .86′	1.28 1.10	ŗ,
	۰.	T'value Sig.	=85 = N.S.	T value Sig.		,
Occupation:	ĥ	۰. ۲				*
Blue Collar White Collar	142 1]3	1.46 1.88	1.38 1.71	.96 1.16	1.18 1.29	
	•	T value Sig.	= -2.17 = <.04		= -1 <sup>.</sup> .24 = N.S.	ŝ
Living Arrangement:		,		•	•	
Apartment/House/Home Institution/Other	225 31	1.67 c 1.48	1.56	1.02 1.35	1.22 1.33	,
	•	T value Sig.	= 0.67 = N.S.	T value Sig. :	= -1.34 = N.S.	* <u>`</u>
Education:	•	• 1			,	•
College Graduate Less than College Grad.	50 205	2.14 1.53	1.83 1.44	1.44 .96	1.22 1.23	•
	•	T value Sig.	)= 2.53 = <.02	T value Sig.:	= 2.49 = <.02	
Race:	۰ ·					•
White'American Other	227 29	1.56 2.31	1.56	1.03 * 1.28	1.24 1.22	
· · · · · · · · · · · · · · · · · · ·	-		= -3.00 = <.01		= -1.02 = N.S.	
••				~		
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• /	Table 21	. (continue	:d)	·		, ` , `
Comparison Variable	No. in Group	<u>Instru</u> Mean	mental St. Dev.	<u> </u>	essive.	 * •,
Marital Status:	در • •				- , •	n .
Married Not Married	162 94c	1.86 1.27	1.63	•.95 1.24 ·	1.15 1.37	0`
Social Class:	,		= 3.04 = <.01	′∖T valu ∖'Sig.	ie ≐/-1⊽.76 .= Ŋ.S.	•
Upper/Upper Middle Lower/Lower Middle	125 131,	1.86 1.44	1.55 1.51	1.32 .80	1.31 1.11	•.
, , ,	Ţ	T value Sig. :	= 2.16 = <.02		e = 3.46 = <.001	

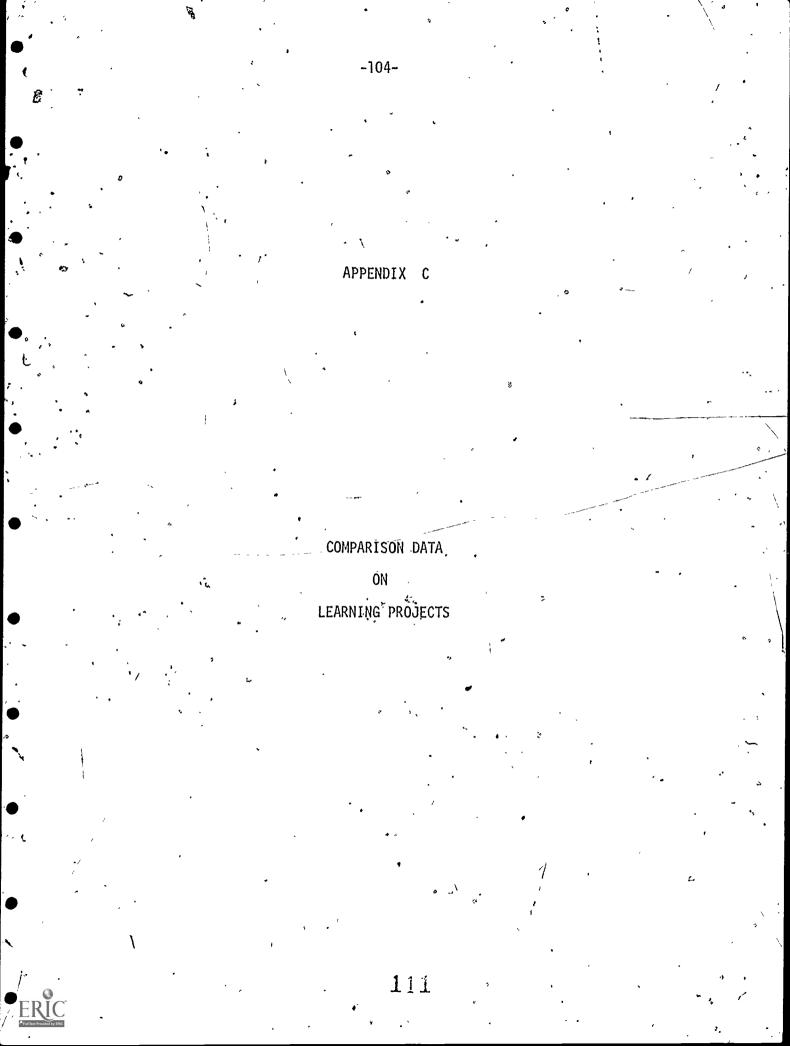
Homemakers were included in the blue collar classification.

c Single respondents were never married, widowed, divorced, or separated.

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	Self-planned Group planned One-to-one Resource planned Mixed	Credit Non-credit Planner Type:	Active Inactive/Completed Learning/for Credit.	Mean Median Range Current Status of Projects:	Mean Median Range Percent of Participation: Number of Hours:	Data Description Number of Learning Projects:	I I
	- 98 - 98 - 98 - 98 - 98 - 98 - 98 - 98	° 99% 8	66% 34%	816 687 0-250.9	8.3 0-20 98%	Tough (N=66)	Table 22. A Six Research
	106 5888 1888	99% ,	67% 33%	244 160 24-1012	4.2 4.4 1-9	Coolicań (N=48)	Comparison of Studies on Lea
•	, 198% 198% 198%	9 5 8 8	* 25%	1046 558 31-6165	8.4 1-22 100%	Johns (N=39)	of Summary Data Learning Projects <sup>a</sup>
•	115 115 そそそそ	с. ж ж х	N.A.	1244 1058 157-4233	11.1 10.3 2-31 100%	McCatty (N=54)	້ອ
· · ·	175 68 38 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	, 93%	, N.A.	430 376 20-1324	4.8 1-12 100%	Denys (N≓40)	
ERIC.	10 20 10 25 55 8 20 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	• • 4% •	。 25% *	ジ25 237 12-2300 1	83.5% 83.5%	01der Adults (N=214)	

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Table 22. (continued)

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1	Data Description	Tough (N≒66)	Coolican (N=48)	Johns (N=39)	McCatty (N=54)	Denys (N=40)	01der Adults (N=214)
- •	Subject Matter Area:				•		
	Ocçupational/Vocational Personal/Family	N.A. N.A.	57% 57%	30% 23%	, 55% 14%	45% 22%	, 16% 20%
	social/Civic Self-Fulfillment	N.A. N.A.	8% 27%	10% 38%	22% 22%	13%	54% 54%
- /	Subject Matter Source:						
	Group or Instructor Expert	N.A.	14% 15%	N.A.	N.A.	N:-A.	12%
	Books, Pamphlets, Newspaper Programmed Materials	N.A.	27% 27% 28%	N.A.	N.A.	N.A.	31% 31%
	TV/Radio/Recordings Disnlavs/Fyhtits	N.A.	م م دی ع ری د	N.A.	N.A.	N N	5 0 0 8 96 1
	Friends/Relatives Mixed Sources		23% 11%	N.A. N.A.	A N N N	N.A. N.A.	31%8
1						**	·

a ° For the sources see Footnote 31, Chapter II.

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