



## APL REVISITED: ITS USES AND ADAPTATION IN STATES

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#### FORFWORD

No project in the 15-year history of the Adult Baics Education Program has bad more widespread and rapid limpact than the Adult Pedicinanse Level (APL) study, APL beam in 1971 with support from the Adult Education Division of the U.S. Office of Education (USOI). By the time the final report from this taked you set susued in 1977, two-histod of the states had already decided to implement some form of competency-based adult education, almost all of them based on the APL findings. Whithin the next 2 years, seven major state or notional-level studies had refined, expanded, modified, and left relatively inted the APL's identification of project years prove seven allows state or notional-level studies also decided to compare from the compared to the project of the provided program of the project are prove sevelable commerciate.

The APL project included a series of activities. The first was the identification of competencies required to function in society. The second was an assessment of the levels of competence among the American adult population. The third was the development of curticulum materials and quides for adult competency-based eucleation programs. In addition, the Adult Education Division sponsored national and regional workshops to inform state administrators and macetiflorers about the APL process and findings.

The two papers in this volume look at the APL from different perspectives, John Excheexamines the substance of the APL-dendfled compelencies in relation to 1 other efforts to identify adult competencies—two of which preceded APL. Fischer's paper looks at the little stage of the APL process—the identification of competencies that are proposed as encompasing the performance demands of some segment of adult life. She cautions the reader to understand that the sponsors and directions of this land effort are lead with many detations. Flow these are made and what these ludgments are will producingly affect the substance of competency identification and the determination of which ones will be proposed as sessifial to competency identification and the determination of which ones will be proposed as sessifial to

She then reviews 12 competency identification efforts at the national or state level: the original two APL lasts of competencies, five that were built directly on APL, and five that were not limited to the APL framework, although they covering substantially with APL. Two of the latter were actually conducted prior to the APL project. Her descriptions illustrate how these critical fundaments were made and the surveys of need conducted.

In the final section of her paper, Fischer presents an extensive Summary of Competencies. Using the API. listing as a baseline, she identifies those that other studies have determined to be important, as well as the degree of variation between the API's list and the others. For those studies that were not limited to the API. list, the additions are also presented.

The 1978 changes in the Federal Adult Basic Education law place greater emphasis on teaching the eligible population those stills and abilities that are necessary for functioning in adult like. It is likely that many programs will want to destrip the files of completencies that which is integrated into their programs. Our intention in this paper is to illustrate that much of this work has already been done. While tearhings about the expected, depending on local conditions and student needs, program developers and instructors need no longer start from difficults and student needs, the least 28 studies offers an avotance reasonate to competency about the conditions and the student needs of the sea 28 studies offers an avotance reasonate.

Walter Haney and Lloyd David look at the phenomenal spread of the APL concept and materials as a central event in the evolution of adult basic education programs. In this context, they also review some major criticisms of APL that illustrate the pitfalls of designing and implementing competency-based education programs.

After reviewing the history of the original APL effort, they scrutinize the conclusions of five major APL critics and add a few of their own. Their analysis emphasizes the impact of these criticisms on judgments about the validity and scientific quality of the study. They are not pleased with what they find. In effect, they and the others question many of the decisions and judgments that Fischer has outlined as critical in the competency identification process.

They then turn to the spread of APL to state and local programs and the development of curriculum materials for Adult Beste Education classes. They conclude that a variety of factors have contributed to first evolution, including USOE's sonosorship of developmental efforts to implement APL-based changes and the perception by adult educators that the APL framework offered a valuable and much needed alternative to radiational adult basic education.

They conclude that the value of APL has been its contribution to breadening the consentions of how adult bases education can be organized and to entriching the body of curticulum materials on which adult educations can draw. However, they were negative the use of the paper and pennel, multiple- and limited-choice format as a value of assessing "times to be and additional and indirections of the processing of a competence. Such procedures, they feel, are too local and igid for these purposes. More finamentally, they question the plausibility of searching for any one set of knowledge and skills with which to define overall adult competence in a costoly as a variegated and plurafistics are modern America.

Our intention in this paper is not to open the wounds of criticism that have aurounded AFL, although this is a danger. AFL, was a constructive, sincers effort by both research and development and program professionals to make systematic improvements in a system that many precised was not effective. Workforing against an established view of the programs assessing to find ways to guide some fundamental changes, it is not surprising that the results are imported and that critical will expose these inperfections to view. Rather, we seek to inform the contractive of the contractive

This report is one of several being published under the auspices of NIE's Adult Learning Team, Education in the Home, Community, and Work Unit, Program on Teaching and Learning, A second is The Adult Illiterate Species Out by Anne Eberie and Sandra Robinson. The third is Adult Development and Approaches to Learning, with contributions by Harry Lasker and James Moore on "Current Studies of Adult Development: Implications for Education," and by Edwin L. Simpson on "Adult Learning Theory & State of the Art."

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# COMPETENCIES FOR ADULT BASIC EDUCATION AND DIPLOMA PROGRAMS: A SUMMARY OF STUDIES AND CROSS-REFERENCE OF RESULTS

Joan Keller Fischer Worcester State College



## COMPETENCIES FOR ADULT BASIC EDUCATION AND DIPLOMA PROGRAMS: A SUMMARY OF STUDIES AND CROSS-REFERENCE OF RESULTS

In February 1978, the U.S. Office of Education generated an institutional workshop on adult competency education. A summary of the research and activities relevant to competency beared adults of the education was presented and later published adults and effort of the education and later published adults and efforts for Rational Institutional Workshop on Competency Based Adult Education (Pischer, 1979). In both cases, a number of the surveys and studies were still in progress, and than less line ofto states which the correct paper is based on the completed projects. Its purpose is to update and analyse in greater defail these efforts to identify competencies in cases you for adult infliction and an adult in the competencies of the control of the competencies in cases and for adult inflictioning and to summarize competencies from the

## 1. Identification of Competencies

In the last few years, studies of the necessary competencies for adults have concentrated on those related to functioning successfully outside of school—a reaction to the emphasis on basic reading, math, and grammar skills within our Adult Basic Education and high school equivalency programs and an attempt to alter at least the context of that instruction, if not the entire curriculum?

Identifying competencies necessary for successfully carrying out adult responsibilities is a complex process involving a series of decisions. Either directly or indirectly, the program developers make decision regarding:

•What are the competencies?

What level or standard of performance indicates competence?

Which competencies are truly necessary?

On what criteria should decisions of necessity be based?

· How should competencies be stated?

- If the procedure selected involves surveying people, additional decisions include:

  •Who should be surveyed?
- •Should the survey be of a questionnaire type or an assessment instrument?
- •How are the competencies transposed into questionnaire or assessment Items?
- If a questionnaire is used, what is the best way of phrasing the question to the respondents so that the response is valid?

Throughout the process of competency identification, judgments are made that reflect the fullence of section factors as the individual or organization that is conducting the study, the funding agency, the amount of money available, and the availability of dashed information. In-vertible, subjective the updgments enter into an affect the final results. These are most obvious in a compation of the competency domains and the lemma of the questionnable or assessment instrumer. These decidings are open to critician by those who disagree with them or see whether the competency of the competency of the control of the competency of the control of the

One of the earliest, and probably the most visible, effort to identify adult functional competencies was the Adult Performance Level (APL) project funded by USOE and conducted by the Texas Education Agency and the University of Texas. This project became a point of departure for many others who have sought to replicate or expand on the APL lists.

Reactions to the APL listing varied. While some adult educators readily accepted the listing, others questioned the procedures (Grifflish and Cervor, 1976) and asserted that the statements and liens were value laden and/or initialed. These reactions are reflected in the approaches taken in laber studies. In some cases, other researches sought to desurrent which of the APL Objective ABS studies must be readed. Other studies sought to go beyond or expand while the control of the while for one the requires and search as a ceruit of the control of the contr

This review of competency identification studies focuses one: (1) studies that were limited to reactions to the APL Staftigs and (2) studies that were not limited to APL. The reviews of both bytes of studies emphasize the procadures used to identify competencies. In both cases, only studies that produced listings of competencies based on substantial representations of sub-jects have been included; studies that are limited to one program or community have not been included.

## 2. The APL Study

Although the APL work has been reviewed extensively in other articles, its importance as a major effort in studies to determine competencies merits its inclusion in this review. The APL research was initiated by USOE to stimulate development of curriculum specifically designed for adults. The project had three objectives:

- To determine the basic requirements of adult living.
- . To determine the basic performance criteria associated with these requirements,

 To develop, field test, and administer an instrument that would identify levels of competency.

The first objective was accomplished by: (1) revolveing behavioral and acid research to energetize the needs of undereducedard and underemployed edults; (2) surveying state and Federal legencies and foundations to identify characteristics that distinguished successful from nucucestial deality, (2) conducting a serie of regional conferences on shall made to which expenditure of the series of

## FIGURE 1

#### THE API. MATRIX

KNOWLEDGE AREAS					
SKILLS	CONSUMER ECONOMICS	COMMUNITY RESOURCES	GOVERNMENT AND LAW	HEALTH	OCCUPATIONAL KNOWLEDGE
COMMUNICATION SKILLS					
COMPUTATION					
PROBLEM SOLVING					
INTERPERSONAL RELATIONS					

Several concepts are integral to the APL definition of functional competency:

 Functional competency is meaningful only in a specific context. Recognizing the differences among various subpopulations, the researchers chose to "create a single indicator" that was common to most people in the United States.

 Functional competency entails the application of skills to the five general knowledge areas and is a function of individual skills and social requirements.

Functional competency is directly related quantitatively to success in adult life. This
assumption led the researchers to adopt an index of success that was a composite of
income, level of education, and occumational status.

Though the lack of full documentation of the background research leading to the lists of competencies and the use of the selectes success indicators have been criticate. In API, last of competences and the survey here provided a basis for one before size the control of competences and the survey here provided a basis for an obliging ARE curriculum and procedures. Several lasts of competences in API, electricular, the product The most widely distributed and quotient and the selection of API, electricules. The more recent listing of 41, which got the control of the provided the provided by the API, affig gree from curriculum writing affects that the than from additional research. In compiling the latter, the staff tired to allumiast sense of the displacedom across beginter (API, Project Sellar) 1976; November 1977).

The format for setting the AFL competencies consists of a general goal statement, intermediate objectives, and enabling or that objectives. These levels of objectives have been consignated unto dysective statement of the setting objectives. Theoretically, if an individual can be applied to the competency statement of the setting objective statement of the unit objective and is competent in that area. Each objective involves tasks for using reading and other communication selfs, competation, inhepressoral relations, and problem-solving selfs.

Some API. comprisincy abstraints are more specific than others: for example, "to be ware of obserting unchinqua" in "to be able to court and convert coins and currency," "to be aware of various aspects of self-and to use this to promote personal growth and effective the respectance (oping" is. "to prepare for the opinications and microwise." This variation in the phrasting of competencies is not unique to API. It relates the difficulty of stating warbout competencies, some of which may be relatively straightforward while others are more well-active. The degree of specific you competency properties of the properties of the contract of the properties of

#### 3 API Based Validation Studies

Studies designed primarily to determine the appropriateness of the APL list of competencles to ABE populations were conducted in New Jersey (two dirots), USCE Rejion X, Pennyawana, and Alacia. These studies primarily assessed student need or interest in response to statements drawn from the APL list of major or enabling objectives. Frequently, only some of the APL statements were used, and these were paraphrased from the original APL statements.

#### New Jersey Adult Basic Education Study

To determine the appropriateness of the APL objectives for New Jersey native born and English as a Scool Language (ESL) ABE students, two studies were conducted. Fisherty (1977) interviewed English-speaking ABE students to determine their self-perceived needs and interests. Forthy to statements were selected to reflect the five APL knowledge areas Allhough the process for selecting the particular statements used was not described, emphasis was placed on statements that vougld be better and understandable to ABE students.

Generally, many of the competency statements included in this study could be viewed as subcomponents of the APL unit objectives rather than as a reflection of the total scope of oblectives. For example, "Filling Out an Income Tax Form" and "How the Court System Works" (the APL statements) are not synonymous with "To Understand the Concept of Income Tax" and "To Understand the Court Systems and How to Use the Legal System in Order to Protect Your Rights and Possessions" (the terms used by the survey).

A preliminary interview schedule was field stated and review to construct the final Zypage questionment. For each distances, the respondant were asked. "Do you want to learn this still in your ABE class fits year?" "How much do you after a fine properties of the construction of the properties of the properties of the five knowledge areas was probed in greater depth. The interview also included opps ended questions to accent and additional skills distant and the provinty of these desired

The survey population included only students participating in ABE basic shifts instruction. Twenty programs were madomly selected to represent programs of different size. Then alcelans present at the time of the schoduled site value were interviewed. The final sample of 20% growed to be generally representative of the tool ABE population, particularly of those in the Allantic where seen. Eased on the results of the APL test instrument, these respondents had a below of the critical APL less than the APL set instrument. College Testing Programs' revi-

Student responses for interest in learning and necessity of learning a competency were related. However, in all instances, a greater percentage of respondents were interested in learning a competency than felt in accessory to learn it. Thoughout ore 50 percent blowed an interest in learning delidia ascorated with the percentage of the control of the

In spite of the positive interest in learning APL areas, when asked why they amoulted in the program only 6.4 percent stated a reason related to life-toroging states. Subserts expensed greater direct interest in instruction related to the basic stills and specific occasional skills into a general APL topics. Fisherly thisse concluded that although New Jerney stories were interested in learning competencies, basic skills were a higher priority. The difficulty with this finding, within 5 in our common in completency-based research, it hat no one is sure that the respondent distinguish between basic skills (reading, writing, oral communication) and basic the state of the program of the prog

## New Jersey English As a Second Language Study

A second study was conducted in New Jersey to accention APL loopies of greatest Interest and Importance to ESL students in ABE programs in the nothern part of the Sate (Bodrams and Lanzano, 1978). The linest of the study was to help teachers select meaningful contasts of ESL instruction. To keep the questionnaise to a reasonable length, only now APL content of the Content of the

Students were asked to respond to each of the 66 topics by rating their interest in and the importance of each. To rob this treat and importance, students had six options that included "no opinion." "don't undestand," and "move enough." A "free response" section allowed asked to indicate additional topics of interest or importance to them, what they found most difficult to learn when they first arrived in the United States, and what activities were the most difficult to learn when they first arrived in the United States, and what activities were the most difficult to learn when they first arrived in the United States, and what activities were the most difficult to learn when they first arrived in the United States, and what activities were the most difficult to learn when they found the state of the

The majority of the responses (359 out of 453) were from Spanish-speaking students. An additional 57 were Japanese, and 37 were Polish speakers. Although demographic data were collected, there was no indication of how representative the respondents were either of all New Jersey ESI, students or of those from the counties surveved.

Reposes were analysed according to these three language groups. As with other surveys of this pay, miting of interest and importance were helphy correlated. In all three groups, ISS, safety sever exhibitates about learning topics included in the APL study. Speaking-pasking students were more reported to the APL topics, while apparaises and Polish students were less responsive. Different groups were also interested in learning different topics. Speaking-pasking were most interested in a cougational knowledge topics, while Japanese respondents ranked five consumer economical times and of greatest interest to them. There were also many variations for included late many different paths and many variations for included late many.

Since Spanish-speaking students comprised the largest group of respondents, the items of greatest interest/Importance to these students were identified. Four indicators were used:

. Fifty percent or more respondents judged the topic very interesting.

- ·Fifty percent or more judged the topic very important.
- $\bullet \mbox{The mean interest rating was 2.5 or higher (scale of 1 to 3).}$
- The mean importance rating was 2.5 or higher.

The 23 topics listed in table 1 met one or more of the above criteria.

Spanish and Japanese student responses to "fee response" items were categorized and are lated in ord or frequency for each category in table 2. The most frequently noted free responses topics relate to learning the English language and the new culture. Other frequently noted free responses topics relate to learning the English language and the new culture. Other frequently mentioned litems repetated some of the ACH (copics (e.g., employment, health case, food, and transportation). Some of these, however, were not included on the survey, which dealt only with occupational knowledge and consumer economics. For response tiems apparently tended to relate to specific and immediate student concerns (e.g., "talk to mechanic about professm with car").

The frequency of life-coping skills topics, along with the English-language and cultural topics, could realistically be interpreted to support ESL extendent interest in learning both life-coping skills and English. Many of the survey tense were related to topics (information), while about 15 others invoked very specific language behaviors (e.g., "speaking in a plo Intervetor). Life-skills topics can provide ESL teachers a basis for designing instructional content, providing wanted information, and/or teachine language learning.

# TABLE 1 NEW JERSEY ESL TOP TWENTY-THREE TOPICS FOR SPANISH-SPEAKING STUDENTS

- · Discuss what kind of job is best for you.
- · Learn how to take employment tests.
- \*Learn how to speak in a job interview.
- ·Learn about deductions from a job paycheck.
- · Discuss job benefits: vacation time.
- \*Discuss job benefits: sick leave
- ·Discuss job benefits: medical insurance.
- ·Discuss job benefits; social security.
  - Discuss job benefits: pensions.
- ·Discuss job benefits: unemployment insurance.
- ·Learn about job qualifications.
- ·Discuss job benefits: labor unions.
- Discuss job problems: lay offs.
- ·Learn how to read advertisements to tell legitimate offers from suspicious offers.
- ·Discuss how to look for a job.
- Discuss how to apply for a job.
- Discuss job benefits: life insurance.
- The good and bad of charge accounts.

  Discuss warranties and how to use them.
- •Fill out application forms.
- ·Reading leases.
- ·Learn how to get a loan for a car.
- ·Learn how to use a bank.

#### TARLE 2

## NEW JERSEY EST FREE RESPONSE ITEMS

Academic Subjects (continued) Employment (continued) English politics lagra a trade Foolish conversation looking for work art reading newspaper ads for John religion comprehension of T.V., movies architecture reading and writing tob benefits toternational relations postel acquitte letters literature composition choosing a career knowing about employment music telenhone problems affecting humanity English for daily use possibilities applying for a ich science filing out tob applications work hours U.S. Government and Law customs labor losse U. S. laws way of life getting a resident visa ambiance Transportation everything citizenship exam many things finding my way Miscelloneous necesia setting from place to place page of life following directions emergendes vouth nubic transportation calling police or firemen people's character local streets car accidents freedom cars the city behavior talk to mechanic about problems big cars American mentality with car wide streets driver's license social system pollution human relations recreation family life Insurance fear otilities lack of communication among restaurants travel agencies neighbors holidays Shopping Children racism adolescents authority shopping respect for humanity English in food and clothing stores psychology of adolescents no servants knowing quality of product how to deal with adolescents shopping for food school for children social relations of children exchanging ttems talking with children's teachers knowing correct prices System of Education Finances system of education Employment money enrolling in college Income tax financial aid for college work banking day of work economic system Housing employment opportunities high cost of living housing start a business become a secretary welfare appearance of housing credit become a commercial artist decorating an apartment money order become a teller become a nurse Clothing become a factory worker Academic Subjects style of clothing

current events

history

join the army

## USOE Region X Study

The User Needs Assessment conducted in USOE Region X by the Northwest Regional Educational Laboratory (SWREEL) included only statements related to consumer economics and was designed to proop (NWREEL) included only statements related to consumer economics and was designed to proop (NWREEL) and the experiments of the

Survey sites were selected to represent the proportion of ABE students in each state, rural/urban location, ethnic group, income level, age, and sex. Each site received 20 surveys, 19 to be completed by students and 1 by an instructor. Of the 460 surveys distributed, responses were received for 382.

The percentages of students ranking an objective as "very important" varied somewhat from state to site and for fince in clifferent see, orthicit, age, and income groups. The manner of asking students to rank importance may have influenced student responses. Students were asked how important it is to develop materials dealing with each erea. They may actually have ranked a statement as "not important" if their program arteacy had materiate fetaled to that topic.

As with other studies, the survey statements varied somewhat from the original APL statement. This variation in some cases resulted in a narrower presentation of the competency (e.g., "How to Count and Change Money" and "How to Use Math in Handling Moneyer" or To be Able to Count and Convert Coins and Currency, and to Convert Weights and Measures Using Measurement Tables and Mathematical Operations."

## Pennsylvania Assessment Project

A statewide APL validation survey was conducted in Pennsylvania as part of an ABE Assemin Project (Linday) and Nead, 1977). The primary purpose of the survey was to determine how receptive the participants in ABE programs would be to APL instructional topics. The 1,500 suddent and 277 slaff respondents were associated with 60 programs in the State and represented beginning, intermediate, and advanced levels of ABE Instruction.

Four general behavior statements that flustrated the reading, writing, computation, and problem solving tasks represented in each APL knowledge area were developed. Students were asked:

- · Could they "do tasks like this now?"
- If an adult education course could teach them "to do this sort of task well," would they take such a course?

#### Teachers were asked:

- Did they teach this type of competency specifically?
- If they did not teach it specifically, did they provide training in the skill involved?
   How important did they consider this type of competency?

Additional information on the rating of competencies was gathered during a followup

Since the study was intended to determine receptivity to APL topics, the statements to which respondents reacted were composites of selected tasks. For example, the consumer economics reading item was stated as follows:

Being able to read catalogs, consumer guides, advertisements, and similar material, in order to select goods and services that you need daily.

The presentation of life-skills topics also emphasized individual basic skills rather than the integration of basic skills to perform an adult life task. Thus, respondents did not react directly to statements correlated to an APL objective or task.

The researchers also collected test data using the original Texas version of the APL survey. Because that version of the survey required more time to administer, four parallel tests of equal difficulty were compiled. Using a simultaneous person-item sampling technique, the tests were administered to students at three instructional levels.

When categorized according to students' instructional levels and teachers' and workshop participants' rankings, the responses to the survey varied. There was, however, general agreement that occupational knowledge was of greatest importance, with consumer economics next

Scores on the APL survey indicated that over half of the students fell into the lowest APL category APL II. And that the APL survey scores were related to instructional placement in program. Moreover, the perceived shiftly to do the tasks included on the questionnaire and willingses to lake part in instruction related to hose tasks was a direct reflection of instructional level. That is, more students at the first to fourth grade level fell into the APL I range; they felt they could not complete the tasks, and were willing to participate in instruction to learn how, interestingly though, there appeared to be title relationship between student self-assessment of ability and actual performance on related test items.

In spite of the positive response to desire for instruction for reading, writing, computing, and problem solving using life-related materials, counselors, supervisors, and students all ranked "Preparing for the High School Equivalency Exam" and "Increased Self-Confidence" as higher priorities than coping with life roles and problems.

#### Alaska Validation Survey

The Alaska API. Validation Survey (Alaska Center for Staff Development, 1978; Alaska Commission on Post Secondary Educino, 1977) was intended to determine the degree of congruence between areas in which adults were found to be deficient on the national level and the precipition among Alaskases in Beste Education Programs as to the relevance of these areas. In addition to accretating the perceived needs of students across the State, the Institute of the Alaska State of the Alaska State of State of State of the State of S

To compile the survey, the list of 65 APL objectives was used as a basis for 81 items across all five APL knowledge areas. Each Item began with the words: "I want to learn..." Students checked: "Yes," "I think so," "I don't know," "I don't links so," or "No." A priority rating of 1 to 5 was obtained and mean preference scores were calculated.

The survey use administered to 992 ABE students and nonstudents between January and May 1978. The nonstudents included suchers, administrators, or other professionals employed in ABE programs. Data were analyzed according to the following categories: unstancins, urban incontudents, urgain, employment setus, and income. The priority ratings lated in the Summary of Competencies (section 6 of this paper) were foose for all decidents surveyed.

A review of items indicated that several were phrased to be more specific to Ababa (e.g., Heve to Stere Food, Like Canning or Frezing). "More Not Provided the Continuation of APL objectives, in fact, a few could have related to several objectives (e.g., "I Want to Learn About Buying Food)". The priority ranking of times and APL categories varied noticeably among people included in the categories above. Often, one term would fail among the top (10 for one group, but not be stimilarly named for any other group. Preference for general APL snowledge areas, ranked across all groups, was as follows: [Uncontinuation of the continuation of the co

### 4. Competency Identification Studies Not Limited to API

## Utah Consumer Competencies Study

A somewhat unique approach was used by the Consumer Research Center to Identify specific consumer competencies needed by Utahans (Aliaro and Cilipatrick, 1978). Beginning with the proposition that Utah's cultural and economic situations are unique, the researchers also recognized the effect that life-cycle position might have on consumer competency needs.

To prepare a preliminary list of consumer needs, the researchers used information from:

(1) a literature review, inhurugh which consumer education topics were identified; (2) an expenditure profile, based on Bureau of Labor Shistics data, of adult consumers excerding to life-style stages; (3) a list of prominent consumer frauds in Utah; and (4) a subjective innovedege of the demographic and cultural makes, up of the Stote.

The list of consumer needs was then rended according to the following criteria: tudicated according to the following criteria: tudicated according to the following criteria included policy and tuding of contential for improving the well-being of Utah consumers through education. The list was also renduced for people in the following circumstances backbell rate; upong married; full rest; full need for the following circumstances being the rate; upong married; full rest; full need for the following circumstances being the rate; upong married; full rest full full rest. full renduced by the following circumstances being the rend full renduced by the full renduced problem; charapteristic home meanagement, and filterines.

The priority of topics and the specific tasks associated with each varied according to the life stage. For example, the top priority for young marrieds was transportation; for empty nest

II, it was health. Although finencial planning was third in priority for both groups, young martrieds emphased budgeing, credit-bunking, and financial records, while Social Security, wills, trusts, and estets were more important for empty nest II adults. The list of consumer needs identified through these railwings provided the basis for developing specific behalvorial objectives—i.e., the values, knowledge, and skills deemed necessary to make an economically rational excenditure.

The Utah listing included items from the APL areas of community resources, occupational knowledge, and health. In addition, many of the specific competencies could be considered to be above the level of minimal coping (e.g., wills and estate planning, music lessons/instruments).

To aid in the development of curriculum, project staff recommended that instruction be modularized. Core topics would provide a common instructional experience. Modules would augment the core instruction and deal with the lumediate competencies associated with each core topic for the various life situations. This system was intended to provide flexibility and eppropriate instruction for adults:

The use of Bureau of Labor Statistics data to develop spending habit profiles for eight lifestyle stages suggests a nelevant consideration for competency identification studies. Although only national statistics were available, the findings were modified to suff Utah's demographic and cultural station. The lack of weaklable objective data specific to Utah are quivers automation trainance on subjective judgment for this modification. It should be noted that this research destand this of include collection customate or assessment data from Utahans.

The Ulub study represented a different approach to identifying compelencies—one that interprise to deal with the sailey of adult learned studies line. Investide, incert sessements have lound that the interest and perceived needs of students very according to see, age, either group, income, and other factors. In addition, a previetion to benevation among adult educators is that instruction must appear relevent to individual learners. The concept of identifying vertices in a magnitude of perceival compelency to perform a compelency of the program developers in that I allows for vertication in compelencies concluded and tasks undertaken while maintaints some considerancy in curriculum competencies.

## Adkins-Connecticut Reconnaissance Survey Method

As the first step in designing a Life-Stell Educational Program, Winthrop Adding proposed an approach for fearinging needle acola and psychological problems of living (Addins; 1977). The procedure, called the Reconneissance Survey Method, stresses the collection of qualitative data through counseligniseries'we techniques. The information collected is then analyzed to identify clusters of problems and to organize specific problem data within each cluster. Collection and relimenter for problem statements are certained out over a series of interviews with several groups. Generally, the approach is similar to grounded theory or qualitative research procedures.

The Reconnaissance Survey procedure was used in the Valley Regional ABE program area of Connecticut. This program served five towns in the State and was considered to be if the State's industrial recions. Interviews were conducted with 258 people. from nine groups (e.g., blacks, ex-offenders, welfare mothers) considered to be in greatest need of ABE instruction, as well as with ABE program staff members and personnel from other community programs.

The statements appeared to cluster into seven categories:

Occupational and Career Problems.
 Problems in Living in Community.

Problems of Personal Growth and Development.

Problems in Relating to Others.
 Medical and Health Problems.

Marriage and Family Problems

Problems of Being a Parent

For each major category there was a list of subcategories, each with supportive problem statements. The population(s) from which the problem statements derived were indicated in the listing. (To compile the Summary of Competencies for this study, only the problem statements pertaining to all lining groups interviewed were considered.)

The findings from the Aultins-Connectical survey were not presented as empetiency settlements. However, the procedure for problem identification democratical on alternative additional step that researchers could employ in determining necessaries and extractional step that researchers could employ in determining necessaries and extractional step that researchers could remploy in determining necessaries and problems of the problems that did not a step to the problems that did not a step to the problems that did not set to the problems that did not shall be specified upon the problems that did not shall be specified upon the problems that did not shall be specified upon the problems that did not shall be specified upon the problems that did not shall be specified upon the problems that the proble

Addins' perspective toward life skills must also be noted, as this perspective affected the findings and problem statements. In this life-skills approach, social and psychological problems rather than literary skills and knowledge are emphasized. Learning activities dealing with the problems are supposed to evolve through a problem-solving process rather than consist of a fixed, predetermined set of tasks.

An examination of the problem interments indicates that—in spite of the difference in productives for identifying needs, Althing represence on the nature of those needs, and the presenting of isatements—imany either disertly refer or relate to base skills and innovaleties. Many into observations are consistent interfaces to the control interface of the control interfaces of the c

In comparing the Connecticut problem statements with the APL objectives, it appears that the content of many of the problem statements directly corresponds to APL general and enabling objectives. The problem statements derived from Addins' research, however, emphasize

the fact that, although individuals can increase their competencies by acquiring information and skills, there is also an external, societal factor involved in success. This factor places an added burden on disadvantaged adults and may, in fact, produce barriers that cannot be overcome through education.

#### California ABE Needs Analysis

The Calfornia Division of Adult and Continuing Education contracted with NOMOS Intitute (June 30, 1977). Decreible 1977) to conduct a Statewide analysis of public needs for Adult Basic Education. The intent was to identify all necessary competencies that are funcorial to economic and educational success in today's demanding, complex society. The proference of the contraction of the co

NOMOS was also to determine the standards for the competencies, methods for desermining possession of competency, a sampling plan, and the competency levels of Callionia, adults. Although the researchers drew on the APL listing, information from interviews with 50 agency representatives included that previous work than of accurately featingthe many of the competencies. The plan was interesting for the proposed use of multiple sources to identify and of the competencies. The plan was interesting for the proposed use of multiple sources to identify destroying a competencies. The plan was interesting for the proposed use of multiple sources to identify destroying a competencies. The plan was interesting for the proposed use of multiple sources to identify the destroying and the competencies.

The project report indicase that the last of specific competencies worked from a literature verw, a latting of generalized competencies, the composition of an organizational framework, specific statements generated by an expert panel; and extensive review, rewriting, and editing (NOMOS, May 1978). The proposed procedures are worth considering because they represent a theoretical perspective regarding procedures that should be followed. That such procedures are worth considering because they represent a theoretical perspective regarding procedures that should be followed. That such procedures are worth or the control of the contr

Five major competency categories were determined:

 Cultural Competencies.—related to beliefs, attitudes, traditions, and behaviors strongly held by society and including such thinges as at expression and appreciation; custom, ceremonies, and traditions; communication, recreation, and leisure, religion, micrally, and values; and philosophy, science, and history.
 Economic Competencies—related to accustion and managing goods and services

and Including such activities as banking, budgeting, consumerism, and employment.

 Health and Safety Competencies—including such areas as first aid, health hazards, nutrition, and health literacy.

 Interpersonal Competencies—including such competencies as verbal communications, self-awareness, and handling stress that enable a person to live with and among others.  Socio-political Competencies—including citizenship, sources of information, legal processes, political processes, public resources, and transportation

The five categories contained subcategories and specific statements for each subcategory. These specific statements represented the competencies.

The resultant list contained some competencies that many might not consider necessary suscessful survival (e.g., "Recognize Major Forms of Dance" and "Engage in Creative Pursuits"). The criterion for necessity is one that must be very clearly stated and that deserves greater attention by those conducting competency identification studies.

In discussing difficitions of competium, Hearth (1978) addressed these conceptual condifferentiates. He asserts that: "A competency at particular level of performance is functional when it serves to meet a need of a person with particular characteristics... in a particular set of hearth (1974) and the properties of the person with particular set of the person toward find-whole alberation for the person may not have a particular competence. He also throther points out that although a person may not have a particular competence for every find the person of the conservation of the person of the hearth (1974) and the person of the hearth (1974) and the person of the p

A Statewide survey of adult competency in California uniting the 130 performance indicators deviouped by NOMOS was recently conducted. The segon-dren sampling was based on salected geographic region, ethnicity, age, and pender are reported in a region of the control of the

On the 130 performance indicators used, the total acrops eathered a 75 percent overall competent" (see Used) performance level. Women performed elightly better than acro on these indicators, and this difference was consistent in magnitude across all other categories are certificated better. The age group between 50 and 60 years, on the average, displayed higher competency scores than both the group between 150 and 30 years and those over 60 years. Efform disordies in the consistential power than the white majorities are consistentially lower than the white majorities are consistentially lower than the white majorities have been concentrations of populations with competency across and the second consistential power than the white majorities have been concentrations of populations with competency experiments of delicities.

When the sample was categorized by employment status, those not working evidenced a performance level considerably lower than those employed either partitime or fulltime. Similarly, those who had completed more formal education scored better on the survey.

Among the marital status groups, those who were widowed appear to have the largest performance deficits. Adults whose parents were born outside the United States and those

raised in homes where language other than English was spoken also scored poorly on the per-

In summary, the major demographic groups with the most severe performance deficits were (rank order not implied); young adults and the elderly; minorities; urban residents; those not employed; those with little formal education; the widowed; immigrants and those with immigrant parents; and those with non-English language home backgrounds.

The analysis of survey data also focused on the five categories of competencies:

Cultural Competencies. Performance on these indicators seemed particularly related to minority status and formal education. Linguistic minorities seemed to have particular difficulties in finding adequate recreational resources.

- Economic Competencies. Performance levels were lowest among the young (under 20), the elderly, the unemployed, and those with non-English speaking home backgrounds.
- \*Feethin and Sofety Competencies. This category included performance levels that were higher than any of the other categories (nearly 80 percent correct). Adults whose parents were not born in the United States and those who grew up in homes in which a language other than English was spoken had somewhat I lower scores than the average of the total sample. In general, the three most difficult topics were first add, bith control methods, and fire emergencies.
- Interpersonal Competencies. In general, this category was more difficult for men, those with little education, the elderly, and those whose parents were not born in the United States.
- Socio-political Competencies. Ethnic minorities, those at low occupational levels, and those with non-English speaking home backgrounds had the largest performance deficits.

# New York External High School Diploma Program Competencies

The External High School Diploma Program for Adults in New York State bases the award of a diploma on demonstration of generalized and individualized competencies. It is not an instructional program, but concentrates on the Identification and assessment of competencies. The generalized competencies are those considered to be prequestlyte to thrither learning.

When the program was bring developed, studies identifying competencies (e.g., the API, study) were not available. As a starting point, the protect design group identified seven general reast: Communication, Computation, Self-Awareness, Social Awareness, Consumer general reast: Communication, Computation, Self-Awareness, Social Awareness, Consumer preferred in the communication of the second self-awareness (Balley et al., 1973). Competencies in each of these areas were deterred out his part professional experience with adult lawares, trood life proprience, and ability and prior experience in writing behavioral objectsions.

The program developers, working in small groups, identified and agreed on 64 competencies in response to the question, "What skills do adults need to cope with daily living?" Representatives from small business, industry, unions, schools, and social agencies reacted to the list, which was then refined, and the regional committee for the diploma program reviewed and critiqued the list prior to the final approval (Nickse. 1977).

Two assumptions guided the task force:

- That the application of learning is holistic; skills such as reading and math were therefore to be demonstrated in context.
- That competencies and the performances by which they are tested must be related to the common developmental tasks of adulthood

Program staff clearly recognized that the choices of competencies and the selection of stills to be assessed involved value indements and were somewhat artitrary. Nevertheless, the similar-

be between the content of the New York lat and that of other listings is remarkable.

The last of generalized life skills minimum competencies, however, should be considered within the content of the entire program design, which assesses the possession of the competencies through the tasks: (1) a series of sources of sometimes there exists of the content of the competencies through the tasks: (1) a series of sources of the competencies through the tasks: (1) a series of sources of the competencies through the tasks: (1) a series of sources of the competencies (2) and the content of th

didate have satisfied the generalized competency orgalization they must also demonstrate competency in the competency in t

tilication of the candidate's job stillin, a review of the Dictionary of Occupational Thies specific job stills by the program assessor; destrictation of the community "expert; "establishment of standards and competencies by the expert; administration of the performance assessment by the expert, in conjunction with the assessor; and review by all experts of complementers identification of pion skills competence in the include local standards for performance. To date, over 90 checklets of competencies have been developed through this procedure.

Since the selection of area and particular competencies within each area are individualized, the cross-reference competency summary in section 6 of this paper considers only those included in the generalized life skills areas. The stress on the five tasks listed above has also been taken into account.

## National Center for Research in Vocational Education Project

The Occupational Adaphatility Research Program at Olso State University's National Center for Research in Vocational Education (NGRVE) has recently completed in Investigation of competencies and literacy needs for occupational adaphatility and transferable skills (skil, 1980). The concept of transferablic skills are underlying components of functional competency and intenses the ability to insafets skills and underlying components of functional competency and intenses the ability to insafets skill and the state of the competency of the competency

possessing the ability to transfer. Within this framework, the project staff sought to collect information that would be useful to practitioners and legislators concerned with competency-based education or minimal competency testing.

A mater lat of functional competencies related to occupational adaptability was compiled from those included in other major research and testing efforts. These lates were mixed or coording to priority by experts in adult competency-based education and personnel representatives from business. Competencies were defined in items of specific based skills. A survey consisting of 39 statements were the survey of the consisting of 39 statements where the consisting of 39 statements are consistency of 39 statements of the consisting of 39 statements are consistency of 39 statements of the consistency of 39 statements of the consistency of 39 statements of 30 statements

People surveyed responded to the following questions:

- •Where should a person be taught this (home, school, or on the job)?
- . Where do most people actually learn this (home, school, or on the job)?
- If a person did not have this ability, how well would he/she do at work (do well, have some difficulty, or have a great deal of difficulty)?

It is this last question that was designed to determine the importance of the competency

Four groups were surveyout: the general adult population, high school students, teachers, and employers. A representative sample of 2,085 English speaking adults 19 gives and older were interviewed on a door-to-door basis. To obtain responses from inschera and high school utilents, 105 public school systems in the contiguous founds dates were systematically selected and saided to participate; 37 agreed. Although the design called for a sample of 1,500 stackness, only 378 responded. A total of 1,556 thigh school underse, selected from the same school spillens as the total company, and segraphic region. Of the 200 surveys matted, 107 were returned.

Opinions regarding where skills should be taught did not vary gealty among the four response groups. There was slich big agreement between where an athligh school be taught and where it was actually learned. However, many competencies thought to be the response skilly of the school were actually learned. However, many competencies thought to be the response skilly of the school were actually learned at home or on the job. With respect to judging the importance of an ability, the responses were consistent across the groups. Respondents who thought people would have some problems if they did not have the abilities their Co. the basis of mean responses of the general adult population, the competencies were maked by importance for doing well at work. The II ont Important commentencies, in raish order, were:

·Use reading, writing, and math skills called for by a job.

·Use tools and equipment called for by a job.

·Deal with pressures to get the job done.

•Get along with others

·Follow rules and policies.

. Do parts of the job that one may not want to do.,

·Have a good work attitude.

- . Follow job safety and health rules.
- ·Hold a job that matches one's interests and abilities.
- . Get a job for which one has the training and background.

Though the correlation across groups in the ranking of important abilities was high, the employer group was more emphatic than the other groups on the need for many of the abilities.

For the purposes of the Summary of Competencies, the general population response rate is a stated. It must be noted, though, that since no competency was perceived as unimportant, all 39 could be considered relevant and important to developing occupational competency.

·Make change using bills and coins.

- ·Manage money so that you can pay your bills.
- Balance a checkbook.
  - . Write a check or fill out a money order.
  - \*Keep records and receipts to file income tax forms.
  - · Add the total (plus tax) of a purchase.
  - ·Prepare and stick to a budget.
  - Be able to tell when you are not getting satisfactory service (like from doctors, lawyers, mechanics, etc.)
  - Take good care of your belongings and property.
  - · Decide which purchases you make are necessary and which are not.

As with the survey of occupational adaptability competencies, the NCRVE project staff will continue to analyze these data, particularly for differences in importance that may reflect a different sense of priorities and needs of various socioeconomic and ethnic/racial groups.

## Northwest Regional Educational Laboratory Functional Literacy Project

Recognizing that people's mastery of and need for reading, writing, and other skills vary tremendously according to their socketal circumstances and personal situations, the Functional Literacy Project at Northwest Regional Educational Laboratory (NWREL) designed a procedure to Identify the specific literacy needs of a community. The process is now being field tested in one site. A three-phase procedure has been outlined for this study (Reder, 1978);

\*Pinase — identification of the ways in which Benscy stills are patterned into propole, deally lives. This identification will entall gathering such information as: "What do people in the community read in the course of their everyday activities?" and "What do people in the community read in the course of their everyday activities?" and "What Markey lives will also attempt to identify where and how thereto give some of their properties of the communication. Their formation gathered will be used to accorde in and written communication. Their formation gathered will be used to accorde in and written communication. Their formation gathered will be used to accorde in their writing and their properties."

•Phase II—Select one or more life domains for intensive investigation. Community interest and the opportunity to conduct research will be considered in the selection of the domain(s), and the procedures used in Phase I will then be applied more intensively to the domain(s) selected.

 Phase III—Design and delivery of literacy instruction. The instructional component will also enable project staff to collect longitudinal data regarding adult literacy development.

Implicit in the above process is an awareness of literacy as a contextual tool. Use of written materials is seen as part of a broader activity, and is affected by the materials periment to this activity and other components of a total situation. While a lengthy and involved procedure, it is one that shows great potential for identifying more accurately the competencies necessary for successful functioning in a specific location and for a specific purpose.

# Summary of Purposes and Procedures

The studies presented in this paper vary in their purposes, procedures used, and manner of stating the competencies and of asking questions on a survey. This is inevitable considering the many judgments that the study discretors and sponsors had to make. This variability makes cross-referencing difficult and, at times, quite subjective.

As a prelude to the comparison of competency objectives presented in section 6, the variations in purpose and method are presented first. These should assist the reader in interpreting the various findings and using the summary charts. Collectively, these studies had several purposes:

•To identify necessary competencies for adults nationally, regionally, within a state,

or within a portion of a state.

To determine the learning needs of adults.
 To gather data for curriculum decisions.

 To ascertain the applicability of or receptivity to competencies specified by the APL study.

To provide a model for program personnel to determine the needs of their students.

To expand upon the APL list.

Several studies included multiple purposes. Table 3 summarizes the purposes for conducting each of the studies.

TABLE 3

						SOFS	IUDI	ES				
Study	-		Based		_	-		- 51	uchas No	Limited	to APL	-
Purposes	APL	NWREL, USOE Region X	N.J. ABE	N.J. ESL	Penn. ABE	ALASKA	UTAH	ADKINS- CONN.	NEW	CAUF.		NWREL Functions Literacy
To identify necessary competencies (necessity)	×		х	×			x		×	×	×	×
nationally	х						_	_		-	×	_
regionally		х		_			_		_	_		_
statewide			х		×	Х	X		×	×	-	
portion of a state	Г			х				х		×		х
To determine the learning needs of adults (Interest)			×	x	×			×		×		
To make curriculum docisions	×	×	×	Г		х	×					×
To ascertain the applicability or receptivity so APL.		×	×		×							
To provide a model for local needs assessment for programs						x				x		×
To expand APL list				х						×	×	

A list of possible procedures for identifying competencies and an indication of procedures used in each study are summarized in table 4. These procedures include:

Collecting prior literature and data from a variety of sources. (An X next to "Collecting prior literature and data" indicates information other than APL..)

- . Collecting additional information:
  - —Questioning adults regarding what they need to know or are interested in learning (qualitative).
  - Asking experts or providers of services to adults to identify what adults generally
    or clients of a service need to be able to do.
  - Asking people to respond to a list of pre-specified competencies and to indicate necessity or interest (quantitative; questionnaires/surveys).

. .....

SUMMARY OF PROCEDURES USED TO IDENTIFY COMPETENCIES NEEDS

	L	APL-Based Studies   Studies Not Limited to	PL-B	S pase	APL-Based Shidles			Strick	Shidies NorT Imhed to API	imited t	API	
Study	APL	NWREL, USOE N.J. Region X ABE	N.J.	N.J.	N.J. Penn. ESL ABE	ALASKA	UTAH	ADKINS- CONN.	NEW YORK	CALIF.	CALIF. NCRVE	NWREL Functional Literacy
Collecting prior literature and data from a variety of sources	×						×		×	×	×	
Collecting additional in- formation:									ı			
Questioning     adults regarding     what they need to     know or are interested in learning     (qualitative)		-		×				×				
b) Asking ex- perts or pro- viders of services to adults to identi- ity what sadults generally or clents of a clents of a acrice need to be able to do	×								×	×	×	

TABLE 4 (continued)

-				
	NWREL Functional Literacy		*	
to APL	CALIF. NCRVE	×		
Limited 1		×		
Studies Not Limited to APL	NEW YORK		×	
Str	ADKINS- CONN.			
	тан			
	ALASKA	· ×		
APL-Based Studies	N.J. Penn. ESL ABE	×		
pase	N.J.	×		
APL-B	N.J.	×		
	NWREL, USOE N.J. Region X ABE	· ×		
	APL			
	Study	c) Asking people to respond to a list of pre-specified compretencies and to indicate recessing or interest (quantitative; questionnaires/ surveys)	d) Analyzing what people do in relationship to performing certain roles or activities	e) Selecting models of people "functioning successfully" and analyzing behaviors and qualities that are related to success

Chida	Ц		PL-B	ased S	tudies			Spir	See Not 1	imited to	API	
Procedure	APL	NWREL, USOE N.J. N.J. Penn. Region X ABE ESL ABE AL	ABE.	N.J.	Penn, ABE	ALASKA UTAH	UTAH	ADKINS NEW CALIF. NCRVE F	NEW	CALIF.	NCRVE	
			İ		Ī							CHELOCY
Administering tasks to a sample of adults												
a) Multiple- choice, open- ended items	×		>		,							

- -Analyzing what people do in relationship to performing certain roles or activities.
- -Selecting models of people "functioning successfully" and analyzing behaviors and qualities that are related to success
- · Administering tasks to a sample of adults:
- -Multiple-choice, open-ended items
- -Performance-based tasks

The procedures marked for each study are those specified in the reports. Although the New York Steet program model uses performance-based assessment to award pidpones, that procedure was not used to determine minimal competendes to be requised in the program. Thus, two methods for determining minimal competendes analyzing the behavior and qualities of persons functioning successfully, and administrating performance tasks to a sample of adults—were not employed by any of these efforts.

Because they were done price to the publication of the APL study, neither the Adhen-Connection study on the New York State Ising on deminal competencies was influenced by the APL findings. Additional date sources for these efforts and the Unit study included: (1) Bureau of Labor Statistics date and expenditure patient date; (2) consumer and social servilor agencies; (3) studies regarding adult development; (4) other sociological verifings; (5) ownersal literature reaccition connections.

### 6. Summary of Competencies

To complie the cross-reference Summary of Competencies from the studies reviewed, the 65 APL objectives were used as the base list. The use of the APL category labels and objectives does not imply a preference for the organization and use of terms presented in APL. Rather, the choice seemed reasonable as a purely practical decision since many of the studies were designed with direct reference for APL.

To prepare the cross-reference list, each APL major objective and the enabling objectives as the state of the

Decisions regarding congruence of the competency statements required substantial judgment. Variations in phresing and origination of competency statements across studies frequently made it difficult to judge the original researcher's intent and the extent of similarity with APL statements. Such decisions were somewhat clearer with the APL validations studies, so long as the bestic comparison was with the major objective. Even for these studies, however, there were inconsistence in scope and procedures. For example, the runder of tiens useful celetrarium exceeds the procedure of the example, the competency of the example of the studies of the example of the e

review these judgments, and other agreed or made suggestions for change. Most of their recommendations were readily accepted.

The sustains in items from the statement of APL objectives may have resulted from sevend considerance: (I) dearled length of the operall survey; (2) comprehensiveness or simplicity of the opidal APL statements and (3) researcher? own judgments regarding importance. The final statements deniended between creating sucception, transiable times and conveying a competency stater than a task. The less specific the tiern, the more the reproduct could read into 1. The sear behavior respondents associate with a competency statement may also vary, demonstrating the difficulty of obtaining reliable responses to the competencies intended when preparing instruments.

Considering the variations across the studies, it seemed appropriate to list the main Intent of conginal PAL completency, specially since the more recent PAL listing contains objective statements that are phresed somewhat differently than the original list of 65 objectives. Therefore, the objectives listed in the Summary of Competency star objective—roughly parallel to the APL major objectives—rather than a series of competency statements.

The Summary of Competencies is in four parts:

Part 1—Knowledge/Information Categories.

Part 2—Basic Skills.

•Part 3-Major Objectives by Competency Area.

 Part 4—Additional Objectives (i.e., not emphasized in APL, but included in other studies)

Most of the studies covered all five of the APL knowledge categories. Consumer concents and occupiantal knowledge, however, seemed to be emphasted mers. The Utah effort considered only consume reconomics, but on closer examination, many of its statements related to APL objectives in the community resources, health, and occupational knowledge extended by treatments, as near oller resolute all ou in importance by ABE students and staff, secretive of the contract resources, however, and the contract of the contract resources, however, and the contract of the contract resources, however, and the contract of the contract resources are part of many other competencies (e.g., "using community resources to deal with fashiousing practices" might be included in a consumer economics section). Cultural and self-instance of the contract of the cont

The summery of basic shifts also required a great deal of the writer's judgment in considering the desert statements in the reports, knowledge of the studies, and inferences drawn from the competency statements. The form when considered in conjunction with practice and practitioner comments, underscored the practitioner comments and preparation for passing the GED test and practitioner comments, which procedure and still a state of the practition 
Parts 1, 2, and 3 of the Summary of Competencies used the APL listing of 65 objectives as the basis of comparison, although some modifications and a few additions were introduced. The summary indicates the degree of correspondence between the individual studies and the APL haseline list:

In four of the studies—NWREL USOE Region X, New Jersey ABE, New Jersey ESL, and NCRVE—the respondents indicated whether they thought the competency was necessary, important, or helpful in accomplishing tasks of adult life. The summary reports the percentage who felt this was so. In the Alaska project, the 81 statements were ranked in order of priority. The summary lists the ranking for each.

Part 4 of the summary lists competencies that were added by the studies not limited to the APL. In these cases, no judgments as to degree of relatedness were made.

While the Summary of Competencies indicated correspondence among the various topics considered, it did not lotally convey the variations in perhapsits. For example, the APL listing incorporated a strong emphasis on basic skills in all chicerbus. The Addins list was comprised of a series of problem, not competency, statements. Many of the validation studies—the New Jerrey ones and Alaska, for Instance—were comprised of a list of general statements that may have corresponded to a materio and or to several of the substees under that total.

It must also be remembered that several of the studies were limited to only certain knowledge areas (e.g., consumer commics). Decisions regarding which components to include and how to phrase the statements determined what choices the respondent could make about the importance of a competency. The inclusion of a topic or still on a survey represented the researcher's and sponsor's judgment about what was important. Thus the form of the lateral and consistence, sealthed the limits for the responses.

This Summany of Competencies is not Intended to be a definitive listing, It is useful in pointing out those areas that a number of large-scale studies have determined as important or necessary for functioning in adult life. There appears to be a fair amount of consistency across that I projects included, as well as a number of areas in which once or more of them have put greater or lesser emphasis. The topics listed by those studies not limited to APL indicate other areas to be considered.

The purpose of the summary and this report is to assist Adult Basic Education program administrators and instruction in selecting those areas that would be appropriate for their programs. Valley as according to region, state, locality, population group, and individual student as a contraction of the programs according to region, state, locality, population group, and individual student with the amphasts in the Adult Basic Education Act are urged to look at the results of these studies as a starting post. Substantial this and effort could be saved by adopting these competencies to individual program and student needs rather than beginning the process all over south.

## SUMMARY OF COMPETENCIES, PART 1: KNOWLEDGE / INFORMATION CATEGORIES

		ı	THE OWNER OF THE OWNERS					0				
		1	APL	APL-Based Studies	studies				Studies Not Limited to APL	ot Limite	d to API	Γ.
Study	ĕ	APL	TOOL THUM		:							
Category	65 obj.	65 41 obj. obj.	NWKEL, USOE Region X	ABE	N.J.	Penn. ABE	Alaska	Cfah	Adkins- Conn.	×.	Calli	Calif. NCRVE
Consumer Economics	•	•		37% h 60%	•	•	•	•		•	•	•
Community Resources Problems in living in community	•	٠		24% h 48%		•	٠	•	•	•	•	
Government and Law Citzenship	•	•		38% h71%		•	•			•	•	
Health and Safety Marriage and family problems Problems of being a parent	•	•		28% h 52%		•	•	•	00	•	•	
Occupational Knowledge	•	•		40% h71%	•	•	•	•		•	•	•
Cultural Self-awareness Social awareness Problems in personal growth and development								•	•	• •		
Key to Symbols: • = essentially the same as APL;	ş	l g	e as APL;				e	emphas	O = emphasis on a sub-category of API	ub-cated	our of A	i.

Θ exequitable that seek is APL that with quasare emphasis.
 Respondent Viprions: b = general reporting deleties would be indigit, b = propring radiang of relationship to APL: the deleties well of the following the reporting of deletionship to APL: and the deleties well of the following the reporting objective is important or necessary.

### SUMMARY OF COMPETENCIES, PART 2: BASIC SKILLS

	L	1	APL	APL-Based Studies	Based Studies		Γ		Studies Not Limited to APL	ot Limits	ed to AP	7
Study	¥	APL		:								
Skills	8.8	65 41 obj. obj.	NWREL, USOE Region X	ABE	N.J. ESL	ABE.	Alaska	Ctah	Adians- Conn.	N.Y.		Calif. NCRVE
Communications Skills	•	•		•	•		٥	0	•	•	•	۰
Reading	•	•		•		•		-		•		
Writing	•	•		•		•				•		
Listening, speaking, viewing	•	•		•						•		
Language				•	•							
Computation Skills	•	•	0	•	•	•	•	۰	۰		•	•
Scientific awareness			-				19 d					
Interpersonal Relations	٠	•					•		•	•	•	•
Problem Solving (making decisions)	•	•				•			•	•		
Specific Job Skills				•					•			•
Key to Symbols: • = essentially the same as APL;	ally th	e sam	e as APL;				0	emphasi	• emphasis on a sub-category of APL;	o-categor	ry of AP	تہ

h = percent reporting objective would be helpful; p = priority ranking of the objective out of total of 81; all other percents are of those reporting essentially the same as APL, but with greater emphasis;

# SUMMARY OF COMPETENCIES, PART 3: MAJOR OBJECTIVES BY COMPETENCY AREA

	Į		Š	nsumer	Consumer Economics	mics						
/		1	APL	APL-Based Studies	Studies			Ľ	Studies Not Impact to Apr	lost I loniza	Id to AD	
Study	~	APL		L	L				- I canno	5	1000	Ţ
Objective	名章	65 41 obj. obj.	NWREL, USOE Region X	ABE	ESL	Penn. ABE	Alaska	Chah	Adkins- Conn.	ž	Celli	Calif. NGRVE
Counting and converting coins and currency, weights, and measures	•	•	61%	15% h 15%	658 728	•	p 38		•	•	•	67%
Understanding income tax	•	•		60% 16%		•	• 11		•		•	50%
Managing money (budgeting) and consumerism	•	•	75%	48% h 19%		•	• 4 ° 6	•	•	•	•	€58 878 878
Using catalogs		•	50%			•	99 0	•	•			917
Using consumer guides, making decisions about purchases	•	•	64%		9.62	•	939	•	•	0	•	38.8
Factors that affect costs of goods and services		•			<b>9</b> 69	0	o 84	•	•		•	35%
Understanding how changes in the economy make a difference in how												33%

 emphasis on a sub-category of APL;
 marginal relationship to APL. Respondents Opinions: h = percent reporting objective would be helpful; p = priority ranking of the objective out of total of 81; all other percents are of those reporting Key to Symbols: • = essentially the same as APL, but with greater emphasis; • = essentially the same as APL, but with greater emphasis; objective is important or necessary.

much you have to spend

Consumer Economics (continued)

		NCRVE	25%		47% 25%	31% 37% 24%		0 37% 19% 25%
Studies Not Limited to APL		Calif	0	•	•	•	0	
of Limite		ž	•		•	•		0
otudies N		Adkins- Conn.		•	•			
"		Chah	•	•		•	•	•
	- Committee	Alaska	o 4 8		•8	⊕ <sup>n</sup> 18	₽75 ₽80	0 26
		Penn. ABE	0	۰	0	•	0	•
ndies	;	ESL	73% 68% 88%	75%		• <del>8</del>	66% 70% 52%	75%
APL-Based Studies	:	ABE	33%		20% h 17%	20% h 16%	9 11 g	
APL	TOOL TOOLS	NWREL, USOE Region X	<b>6</b> 4%	35%	•	•	16%	985
Ī	APL	4 <u>8</u>	0		•	•	•	•
	Ā	8.6	•	•	•	•	•	•
	Strudy	Objective	Comparison shopping: price vs. quality	Packaging of goods; cost- effectiveness for quality and storage	Sales (understanding and making decisions to buy)	Understanding advertising techniques	Ordering food and tipping in a restaurant	Purchasing home furnishings
					33			

_	-,-	ы		_			
		NCRVE	333%		39% 27%	528 318 318	31%
d to AP		Calif.	•	•	•	•	
ot 1 imite		×.					
Studies Not 1 imited to API		Adkins- Conn.	•				
0		Clah	•	•		•	
ſ		Alaska	• 55.55 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	₽58 ₽47	• 354	·8	
		Penn. ABE			•	•	
hudies		ESL	• \$25.44.48.65.55 \$24.44.48.65 \$2.44.48.65		22% 88%	84%	
APL-Based Studies		ABE	388% h 20% h 18%		43% h26%	98% h 19%	
APL		NWREL, USOE Region X	73%	64%	53%	\$0.8 \$0.8	
П	APL	£ <u>8</u> ,	•	•	•	•	
Ц		8.8	•	•	•	•	
	Study	Objective	Obtaining housing, utilines	Buying and maintaining a car	Care of personal possessions (cleaning, having things fixed, warranties)	Sanking services	Ordening mortgages Defermining the most pro- fitable way to save money

Consumer Economics (continued)

			APL-	APL-Based Studies	tudies			,	Studies Not Limited to APL	ot [.imite	d to AP	
Study	APL	J		:								
Objective	65 41 obj. obj.	4.6	NWREL, USOE Region X	ABE	ESL	Penn. ABE	Alaska	Clah	Adkins- Conn.	Y.	Zij	NCRVE
Understanding credit systems	•	•	288%	20% h20%	73% to	0	ь 36	•		•	•	0
					Several							
Establish a credit rating												30%
Bank loans Financing through a store												888
Understanding and selecting insurance	•	•	71%	46% h 19%	98%	•	• %	•	•		•	30%
Fraudulent practices; resources for protection	•	•	• 889	62% h 17%		•	• 8	•	•	•	•	24% 30% 27%
Consumption of world resources; individual's responsibility	•	•	53%				₽ 52	е			•	27%

SUMMARY OF COMPETENCIES, PART 3: MAJOR OBJECTIVES BY COMPETENCY AREA

			- Contra	Accupational followiedge	T WILLIAM	agnar						
/	ı	ĺ	APL	APL-Based Studies	tudies			S	Studies Not Limited to APL	ot Limite	d to AP	Γ.
Study	ζ.	APL										
Objective	65 41 obj. obj.	4.8	NWREL, USOE Region X	ABE	ESI	Penn. ABE	Alaska	Utah	Adkins- Conn.	×.	Selic	NCRVE
Sources of employment	•	•		27% h 24%	79% 74% 75%	۰	p 13	•	•	•	•	. 56%
Requirements of different occupations	•	0			848 778 818	•	p 16	•	•	•	•	29% 40%
Occupational interests (testing and counseling)	•	•		• 44% 1,25%	• %	•	o p 16 p 24	•	•	•	•	40%
Private and other employment agencies	•	•			• 75 %		p 27	•	•	0	•	26%
Job applications and interviews	•	•		46% h27% 31% h24%	82% 79% 62% 91%	•	• 28	•	•	•	•	29%

Occupational Knowledge (continued)

		NCRVE	978 378 328 458 458 458	Range from 20-	24% 33% 118% 22%	40% 322% 213% 277%
Studies Not Limited to APL		jij	•	•		
of Limite		N	e		0	•
Studies N		Adkins- Conn.	•	•	e	•
S		Utah	•	•	•	•
		Alaska	• 44 • 44	• 15 0	0 6	p 56
		Penn. ABE				
udies		ESI.			* 82 8 8 7 7 8 4 8 4 8 4 8 4 8 8 8 8 8 8 8 8	77% 66% 63%
APL-Based Studies		ABE.	34% h 19%		0 46% h19% h22%	
APL.		NWKEL, USOE Region X				
Ī	APL	£.8	•	•	•	
	₹	965 ido	•	•	•	•
/	Study	Objective	Standards of behavior for types of employment	Attitudes and skills that may lead to promotion	Financial and legal aspects of employment	Aspects of employment other than financial that affect job

## SUMMARY OF COMPETENCIES, PART 3:

Study		TO THE COLUMN		MAJOR OBJECTIVES BY COMPETENCY AREA	5			5					
LL			Com	Community Resources	y Resou	rces							
			APL.	APL-Based Studies	ndies			ľ	Studies Not Limited to APL	ot Limite	d to AP		
/	APL		100	;	;								
Objective 65	4.49		0 ×	ABE	EST	ABE.	Alaska	Çta	Conn.	×.	ji G	NCRVE	
Types of community resources	•						• 49	•			•		
How and when to apply for				•			•	•	•	•	•		
social security and medicare				40% h 22%			p.71						
Recreational services	•						•	•		•	•		
	_			13% h 16%			p 59						
Informational services	•						•	٠		۰	۰		
Borary)				h 30%			p 49						
Resources for acting on	<u> </u>					0	•	•	۰	0		0	
							P 35					27%	
Recognize traffic signs, driving regulations, safety	•			17%			•		•	•	•		
				27% 14%			p 66 p 72						
Transportation schedules,	•			• 5		•		•	•	0	•		
fares, informational resources	$\dashv$			15% h 15%			p 75						

.

APL-Bas	Study APL	Objective 65 41 Region X ABE Objective 0bj 0bj	Time zones, daylight savings	Making travel plans, ar-	kelationship between transpor- ation and public problems traffic problems, energy)	Understanding the influence
APL-Based Studies		× ABE				
tudies	-	ZZ				
		Penn. ABE		•	0	
Ī		Alaska	•	p.46		•
				•	•	
Studies Not Limited to APL		Utah Adkins- Conn.	•		•	
ot Limite		Y.				
d to AP		ğ				
٠		Calif. NCRVE				

39

## SUMMARY OF COMPETENCIES, PART 3: MAJOR OBJECTIVES BY COMPETENCY AREA

				Ĕ	Health							
			APL.	APL-Based Studies	udies				Studies Not Limited to APL	ot Limite	d to AP	
Study	APL	7			;	,						
Objective	8.8	65 14.9	NWKEL, USOE Region X	ABE	ESI	Penn. ABE	Alasica	Ctah	Adkins- Conn.	z. >	Calif.	Cald. NCRVE
Safety measures; prevention	•	•		0			•		•	•	•	
				45 th			p 32					
Medical and health services in the community	۰	٥						•	•	٥	•	
Pregnancy and prenatal care	٠	•					•		•		•	
							7, d					
Family planning and birth	•	•		•			•	•	•	۰	•	
control				16% h 11%			p.78					
Child-rearing practices and procedures for quarding	•	٠		٥			•	•	·		•	
health and safety of a child				16% h 9%			p 41 p 49					
Health needs and concerns of the adolescent and ways to	•	•					٠	٠	•		٠	
sase transition to adulthood							p 25 p 25 p 26					

					_		Studies	of Limit	Studies Not Limited to APL	_
APL				L						
65 obj.			N.J.	Penn. ABE	Alaska	Ulah	Adkins- Comn.			NCRVE
		۰			•	•		0	•	
		36% h 24%			p 12					
					• 5		•	•	•	
					p 3/					
		٥			•			•	•	
		31%			p 2					
	0				. 0	•	•			l
-					80					
					•	•	•	•	•	
		32%			p 42					
		16%			20					
-		h 24%			p14					
-		L			•		•	0		
_			_		p31	_				
÷					•		•		•	
					556					
		11-12-	Nurgen 1500 004) Region X	MWREL DOE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 WWELL USOE N.J. N.J. 11 Respons N.J. N.J. 12 S.S. 13 S.S. 14 S.S. 15 S.S. 15 S.S. 16 S.S. 16 S.S. 17 S.S. 18 S.S. 1	141 NWWELL USON NW 1 N.1. Penn, 145 NWWELL USON NA N. 1	Mingapan   Mingapan	Marganix   Note   Not	441 NWHEL, USCA R. R. E. S. Age. And Addison- tol. National Comm.   Weight   Note   Note	

## SUMMARY OF COMPETENCIES, PART 3: MAJOR OBJECTIVES BY COMPETENCY AREA

## Government and Law

									1	1		
			APL-1	APL-Based Studies	ndies			•,	Studies Not Limited to APL	ot Limite	d to AP	
Study	APL		0001	7					Adkins		3	
Objective	65 obj. obj.		NWKEL, USOE Ragion X	ABE	EST	ABE	Alaska	Cah	Conn	×.	i S	Calli
Structure and function of the Federal Government	•			0 8			• 5			0	•	
Constitution, branches, etc.				126% 126%			p 32					
(also state and local governments)							. 282 d					
Participation in govern- ment process										•		
Relationship between indi- vidual and the government	•	•		90% 115%			p.23		•	•		
Relationship between indi- vidual and the lagal system	•			45%			P 23		•	•	•	
				31% h 17%			p 35					
Legal documents, contracts	•	•					• 2 4				•	
Relationship between government services and taxes	•			47% h 19%							•	

### SUMMARY OF COMPETENCIES, PART 4: ADDITIONAL COMPETENCIES

### Utah Study

### Major Objective: Consumers' Role in the Economy

### Enabling Objectives

- Should recognize that in a free enterprise economy expenditures amount to an economic vote for type and quality of goods
- Must recognize that by becoming an efficient and effective decisionmaker they will improve society's allocation of resources
- Fundamentals of how a free economy works and how the role of consumer affects overall
  market structure
- Knows importance of effective and efficient decisionmaking, management concepts and techniques

### Major Objective: Introduction to Life Cycle/Life Style Concepts

### Enabling Objectives

- · Awareness that life cycle positions have effect on problems individuals face
- Should understand the life cycle concept and its effect on life style or personal consumption
   Recognize that life cycle analysis can be effective planning aid.

### Major Objective: Telephone Services

### Enabling Objectives

- Should be aware of total costs of telephone service and habits which can save money
- Needs to know how costs vary with types of service
- · Awareness of advantages that telephone services offer
- · Awareness that vendors other than phone company distribute telephone equipment

### Major Objective: Wills

### Enabling Objectives

- Parents and persons with substantial assets have obligation to prepare a will
- Consumers should believe that it is important to have estate plans reviewed periodically by an attorney
- Consumer should know what legal skills vary automatically from one attorney to another
   Should know the basic laws of descent and distribution
- ·Should know how gifts, trusts, and estates are taxed

### SUMMARY OF COMPETENCIES, PART 4. ADDITIONAL COMPETENCIES

### Adkins-Connecticut Study

### Major Objective: Problems of Living in the Community

### Enghling Objectives:

•Dealing with conflicts between own children and neighbors' children; also dealing with unreasonable neighbors

\*Special problem of recent unemployment and the maintenance of housing

Overcrowding, particularly for families with many children, exacerbates family conflicts and tonelons

Fear of danger from others on dark nights going to and from public transportation

People on welfare do not have adequate resources for transportation to and from school Psychological consequences of lack of adequate transportation

Dealing with school boards and school officials

Not feeling a part of the community through participation in community

### Major Objective: Problems of Being a Parent

### Enghling Objectives

Disappointment with the school system

Misdiagnosis of child as having a learning disability

Dealing with special problems of retarded, physically handicapped, or hyperactive children ·Helping handicapped children with feelings of rejection and exclusion

·Getting help in dealing with handicapped children

•Finding out about day care facilities

Identifying responsible people to care for children

Need for babysitter or day care in order to go to school or work

·Lack of after-school and summer programs for children · Adult at lower educational level than children feels inferior

· Dealing with separation, divorce, or desertion

Dealing with lying, theft, and sneaky behavior \*Dealing with neighbors' children and neighbors

·Problems of child abuse

·Helping children with problems of death

### Adkins-Connecticut Study (continued)

### Major Objective: Marriage and Family Problems

### Enghling Objections

- · Deterioration of marital relationship and family life after prolonged unemployment
- . Helping one's spouse deal with feelings of failure due to unemployment
- ·Husband takes out frustrations on wife and family
- Money problems are major source of argument between husband and wife
- Conflicts over raising children from a previous marriage
- Difficulties of divorce
- · Difficulties in meeting someone of the opposite sex
- Unemployment and loss of income makes household management extremely difficult

### Major Objective: Occupational and Career Problems

### Enabling Objectives

- Belief that fate or chance determines what inb you get and in an inability to affect destiny.
- Limited access to on-job-training programs, summer employment, etc.
   Problems that prevent certain groups from enrolling in educational and training programs.
- Need for training leading to taking correspondence and inevitably failing
- ·Lack of coordination between employment and training agencies
- · Difficulty in communicating with physicians
- Impersonalness of doctors
- Lack of concern by doctors about medical aid patients, and refusal to see welfare patients
   Inability to get any doctor to come to the house

### Major Objective: Problems in Relating to Others

### Enablina Objectives

- . Knowing how to interpret the facial expressions of others
- · Giving in to children's wishes because of peer pressure
- . Dealing with discrimination because of being too short, fat, or a minority
- Avoiding opportunities because of fear of being discriminated against
- ·Discrimination against women in employment
- · Dealing with and resolving conflicts between different kinds of life demands
- Difficulty in balancing home and family responsibility and responsibility to self.
- ·Feeling that there are very few places that one can admit one's ignorance

### SUMMARY OF COMPETENCIES, PART 4:

### New York External Degree Program

### Major Objective: Self-Awareness

Fnahling Objectives

· Annly the decisionmaking process

•Identifu one's own values, goals, roles, and needs

Augrenage of art in gueruriau life

React to or create an exhibit

•React to a live performance

Identify uses of music to manipulate emotions

### Major Objective: Social Awareness

Enghling Objectives

State contributions of a different culture to American life

•Use history in making decisions or plans

•Function within a group

·State the effects of one group upon another

State the relationship between the individual and the environment

·Communicate in a socially acceptable manner

Recognize and share fundamental assumptions and world views about concepts such as fairness, truth (philosophy, science, history)

· Identify the diseases and other health problems associated with one's family

\*Recognize normal physical and emotional changes associated with various states of life

· Make family decisions with family members

Recognize social norms in a variety of situations and exhibit cooperative skills for participating
in social life—get along with others

### SUMMARY OF COMPETENCIES, PART 4: ADDITIONAL COMPETENCIES

### California Study

### Major Objective: Occupational and Career Problems

### Enghling Objectives

- Problems that prevent certain groups from enrolling in educational and training programs
- ·Use the tools and equipment the job calls for
- ·Follow rules and policies
- •Use material and knowledge of other people to develop job interests
- ·Manage one's own time and activities
- ·Use the reading and math skills the tob calls for

### Major Objective: Relating to Others

### Enabling Objectives

- . Dealing with discrimination because of being too short, fat, or a minority
- ·Discrimination against women in employment
- . Knowing how to interpret the facial expressions of others
- \*Use history in making decisions or plans
- •State contributions of different culture to American life
- . State the relationship between the individual and the environment
- Communication in a socially acceptable manner
   Recognize and share fundamental assumptions and world views about concepts—fairness,
- truth (philosophy, science, history)

  •Identify the diseases and other health problems associated with one's family
- Recognize normal physical and emotional changes associated with various stages of life
   Make family decisions with family members
- Be aware of life cycle positions and their effect on planning future, solving problems, life style and personal consumption patterns

### Major Objective: Being a Successful Consumer

### Enablina Objectives

- ·Decide if a more expensive item is worth the extra cost
- · Decide what gives you the best return (or profit) on your money, if you want to save money
- Understand how changes in the economy make a difference in how much you have to spend
   Establish a credit rating

### California Study (continued)

·Get a mortgage on a house

·Fix things when they break or tear

•Find the right person to sell something to you

·Be able to tell when you are not getting satisfactory service (as from doctors, lawyers, mechanics, etc.).

### SUMMARY OF COMPETENCIES, PART 4: ADDITIONAL COMPETENCIES

### National Center for Research in Vocational Education

### Major Objective: Adaptability in the World of Work

Enabling Objectives

·Use the tools and equipment the lob calls for

·Follow rules and policies

·Persuade others to one's way of thinking

·Use material and knowledge of other people to develop job interests

Ask for a raise in salary

Manage one's own time and activities

·Use the reading and math skills the job calls for

### Major Objective: Being a Successful Consumer

### Enabling Objectives

·Decide if a more expensive item is worth the extra cost

Decide what gives you the best return (or profit) on your money, if you want to save money
 Understand how changes in the economy make a difference in how much you have to spend

\*Understand now change

Establish a credit rating
 Get a mortgage on a house

•Fix things when they break or tear

 Decide between selling something large yourself, such as a house or car, or having someone sell it for you

·Find the right person to sell something to you

Decide between renting or buying something you may not need very often

Be able to tell when you are not getting satisfactory service (doctors, lawyers, mechanics, etc.).

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### THE APL STUDY: SCIENCE, DISSEMINATION, AND THE NATURE OF ADULT EDUCATION

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### THE APL STUDY: SCIENCE, DISSEMINATION, AND THE NATURE OF ADULT EDUCATION

Education is America's magic....If the economy is to sustain, some development dollars must be reinvested in adult education. We believe this is the best application of dollars for investment in order to return to the society the magic multipliers of American adult education.

William Flowers and Linda Hartsock representing the Adult Education Association and the National University Extension Association in testimony before the United States Congress, 1977.

If education is America's magic, then adult education is surely an important and growing part of the show. Since passage of the Adult Education Act of 1966, renollments in adult education state grant-supported programs have grown from eround 580,000 to more than 1.2 million in 1978 (U.S. Congress, 1977, p. 105). According to date from the National Center for Education Statistics (NCES), the number of adult education participants graw from 8.3 million in 1987 to 18 million to 1975 (Golladex, 1976).

This remarkable growth has been coupled with an upsurge of interest in a new form of adult education—namely, competency-based adult education. Malcolm Knowles, in his History of the Adult Education Movement in the United States (1977), has described this new laterest and one of the major motivations behind it:

The granest swell of competency-based education for adults. .occurred following the report of the findings of the Adult Performance Level (APL) Study to October, 1975. Funded with \$1 million from the Office of Education's Adult Education Dyston, the first phase of the Study—an assessment of the functional competency of American adults—rook just over four years to complete. Its general finding that one or of the (£1.95 general adults better the skills and knowledge needed in only about 46.53. per second of the study of t

Even before the Study was completed many state departments of education and local school systems had started developing APL competency-based programs and materials and conducting workshops to help teachers become competent in using the new approach.

Despite its udespread impact, the APL project his been subjected to relatively little critical scrutiny. The principal critical reviews of the APL project ere by Griffin and Carvaco (1976, 1977), Natisper et al. (1975), and Feller et al. (1978), Ronald Cervero, for example, has argued that the key assumptions of the APL study you in "feulty reasoning," and he has concluded that the APL set does not measure "functional competence but is really just a set.)

The juxtaposition of this growth and stong critisian is the subject of this paper. Our custion is simple. If API, has the false with its critica say the sury has had had such a prevailve impact on adult education in this country? We begin in section 1 by summarizing the API, study and this black), in section 2, we consider why, despite serious shortcomings, the API, study has caused such an apparent pureault in adult education. We go not to suggest that these condications rule important questions concerning both the recent enthusiasm for competency lesting in American education. We go not have a summarized the summarized and influence discussions and endowers.

One important distriction should be made clear at the outset. In sections 1 and 2, we limit un attention to the original APL such and test developed on the basis of that study and test developed on the basis of that study and published by the American College Testing Program. We do not comment on APL curvious materials that have been developed subsequent to the APL study. This distriction is important because many of the criticisms leveled against the APL study and tests are not necessarily vole to example the criticisms leveled against the APL study and tests are not necessarily under the APL curvious materials, incleed, as we show in section 3, some of the assumptions implicit in APL curvious materials are contrary to those embodied in the APL study and sex, and sex, we offishin, know sepportate for the diverse needed and concerns of adult learners.

### 1. The APL Study and Its Progeny

One out of five American adults lacks the skills and knowledges (sic) to function effectively in the basic day-to-day struggle to make a living and maintain a home and familu.

> HEW NEWS. U.S. Department of Health, Education and Welfare, 10-29-75. (quoted in Heller et al., 1978)

What led the Department of Health, Education, and Welfare to issue such a proclamation? If true, surely such a state of affairs is as workstome as an unemployment rate of 20 percent. For this new release seys not just that adults lack jobs or lack skills for jobs, but that they lack the requisites to function effectively in life. To explain this astounding conclusion, we go back to the origins of the APL study.

### Origins of the APL Study: 1970-1973

In August 1970, the Division of Adult Education of the U.S. Office of Education (USOE) to the Acquest for Proposals for a research project that would establish an adult education system based on a new definition of a

The challenge is to feater frivough every means the ability to read, write, and compute with the functional competerers needed for meeting the requirement of abilit living. The emphasis of this definition is on its finis phrase, "requirements for ability living." These requirements must be determined by an analysis of adult living rather than the common practice of attachting a grade equivalence to them... A system of the common tractice of attachting a grade equivalence to them... A system of the common tractice of attachting a grade equivalence to them... A system of the common tractice of attachting a grade equivalence to them... A system of the common tractice of attachting a grade equivalence to the common tractice of attachting a grade equivalence to them... A system of the common tractice of attachting a grade equivalence to the common tractice of attachting a grade equivalence to the common tractice of attachting a grade equivalence to the common tractice of attachting a grade equivalence to the common tractice of attachting a grade equivalence to the common tractice of a stack the common tractice of attachting a grade equivalence to the common tractice of attachting a grade equivalence to the common tractice of attachting a grade equivalence to the common tractice of attachting a grade equivalence to the common tractice of attachting a grade equivalence to the common tractice of attachting a grade equivalence to the common tractice of attachting a grade equivalence to the common tractice of a stack the common tractice of a stack that the commo

In the summer of 1971, a contract for the project was awarded to the Texas Shet Education Agency, which in turn subconstrated most of the work to the Division of Stensions on the University of Texas at Austin. On the basis of "a roview of related literature and research," and exertased survey of state and Ideals agencies and foundation," "a series of conferences on adult needs... in different series across the country," and "a series of series-shoutcured interviews are across the series of the series of the series of the series of series of the series of

The taxonomy consisted of a matrix of basic solfia and general knowledge areas in which seek of the basic skills might be applied. The basic skills were communication (pading, witting, speaking, and listening), computation, problem solving, and interpersonal relations. \*The general innoveledge areas were occupational knowledge, consumer innoveledge, beath; community resources, government and law, and transportation. The project staff explained this twe-dimensional amorpach to defining skill commerciates as follows.

(The basic skill areas play a major role in defining the minimum level of performance within each of the general knowledge areas. The attainment of the basic skills in themselves do not (skc) distinguish the successful from the unsuccessful, however the application of these skills within each knowledge area help define the minimum level of performance that an adult must obtain. (Adult Performance Level Study, 1973)

In order "to define "interfora" literacy in terms of observable behaviors in certain skills retaining to as etc. on needs which have been identified as be brieft jumported to success in adult life," (AP, Study, 1973), two steps were desmed essential. Part, the inquiry would need to construct extents by which "success" in society might be measured and in terms of which the adult competencies might be validated. Second, the behaviors presumed to represent adult competence must be shown to be empirically related to the criterio of success and the success of 
<sup>\*</sup>The 1973 APL report refers to communication skills appearently as encompassing reading, writing, speaking and listenting, and computation.

To accomplish this, APL project staff undertook a field study to validate possible adult competence measures in terms of success in society. The 1973 APL study report explains that three types of variables afforded measurable indexes of success: "occupational prestige, weekly income, and level of education," the latter considered both in terms of level of adult basic education and vears of formal schooline.

Having developed the taxonomy of adult competencies in terms of a matrix with basic skills on one dimension and knowledge areas along the other, the project staff constructed "lists of adult-life instalations in each area of need," Test terms developed from this list were then administered to a sample of some 4,000 adult volunteers, most of whom were participants in adult education programs. In 30 class.

The 1973 report does not make clear exactly how test terms relevant to "adult-life situations in each mare of need" were developed or selected, no reascely how many thems were field tested. The report simply presents a "revised list" of adult performance items that was "developed from the linkal let and from analysis of the test data." The bulk of the 1973 report (almost 200 out of 280 pages) consists of "field validation results" discussed in terms of the six APL knowledge and

Although the report emphasizes the matrix approach to defining adult competence in terms of both sides and knowledge areas, the presentation of results dispenses with the still dimension in a single sentence: "Performance in terms of basic sides of reading, writing and terms of the side of the still sentence in a single sentence: "Performance in terms of basic sides of reading, writing and API, report, however, does adult with soft differentiation.] Both orderedge are results. The final API, report, however, does adult with soft differentiation.] Both of the sides and the side of the side and the sides of the side and the side of the side and the side of the side and the side of the side and the sides of the side and the side of the side and the side of the side o

After describing the field validation results, the 1973 report presents the "most important product" of the first year of work in the API study," hamely, API goals, objectives, and basks. The report explains simply that this listing constitutes "requirements for adult living which we have tentiatively identified as contributing to success in adult life (in the sense of being positively related to wantous criteria for success!)." The report concludes:

For the first time, there is a body of research which offers guidance on whot we should be teaching our students in ABE. This project has defined a system of adult needs and has described on army of behaviorfol tasks keyed to these needs which, for the most part can be demonstrated to be positively related to various measures of success in adult life. (Emphasis in original.)

### APL Project, Phase Two: 1973-1975

The second phase of the APL project began in 1973 and is reported in Adult Functional Competency: A Summory (1975) and in Finol Report: The Adult Performance Lewel Study (1977). On the basis of the field validation, the framework for defining adult competence and the Items for measuring it were refined. The new framework retained the skills and knowledge area matrix and encompassed the same skills: communication, computation, problem solying.

and interpersonal relations. The knowledge areas dimension had one less area, now consisting of occupational knowledge, consumer economics (rather than knowledge), community resources, government and law, and health. Why transportation was dropped as a separate knowledge area was not explained in either the summary report or the final report, but it appearantly became part of the community resources, knowledge area.

The revised set of adult competency test items (or performance indicators as they cometimes were called was administed to a representative sample of 7,500 adults throughout the continental United States, and three competency juvels were determined in terms of performance on the APIL settle turns. These these calegories—termed APIL celed 1, 2, and 3—are described in table 1. These levels are described as 'conjoint' delimitors' based on the settle of the settle

On the basis of the national survey and these definitions of adult performance levels, the final report concluded:

In general, the answer to the question posed by this section is "not ac completent as we thought." Overall, approximately on-Pith of U.S. adults are "functionally in-completent." This estimate is based on a representative sample of adults performing to indicators which cover the five general knowledge areas and four skills. When troken into the Individual knowledge areas and skills, this level of incompletent of the CRL11 arranges from 16.5 for unified to 335 (pr computation. Thus, at least one of the skills deemed important for survival in this society, about one-thed of U.S. adults are incompetent.

The report goes on to discuss performance level results for each of the five knowledge and four general skill areas, and variations in overall results in terms of years of education, family income, occupation, sex, age, region of the country, ethnicity, size of household, and employment status. With respect to ethnicity, the report states:

While less than 20% of the Whites were estimated to be functionally incompetent, more than 40% of the Black and Spanish surname groups were estimated to be so.

Apparently based on the findings from the second phase of the APL study, HEW Issued a press release in the fall of 1975 stating that, "One out of five American adults lacks the skills and knowledges to function effectively in the basic day-to-day struggle to make a living and maintain a home and family" ('Heller et al., 1978).

### **Initial Reactions to APL Study**

The study and its findings roused considerable attention. The tide of Edith Roth's lead article in the May 1976 USOE-published journal American Education credited the study with causing "A Ferment in Education." She wrote:

Today—not quite five years since the APL study began—more than 30 states are either gearing up to teach or are already teaching adults to gain competency in the 65 practical objectives which the University of Texas team developed.

### TABLE 1 DEFINITIONS OF API, PERFORMANCE LEVELS\*

### ADI 1

(Least Competent Adults)

API. I's are those adults whose mastery of competency objectives is associated with:

- Inadequate Income—poverty level or less
  - AND
- 2. Inadequate education-8 years of school or fewer AND
- 3. Low job status-unemployed or unskilled.

### API 2

(Marainally Competent Adults)

APL 2's are those adults whose mastery of competency objectives is associated with:

 Marginal income—more than poverty but no discretionary income AND

3. Semiskilled to upper-level blue collar and sales job status.

- 2. Marginal education-9 to 11 years of school

### APL 3

(Most Competent Adults)

- APL 3's are those adults whose mastery of competency objectives is associated with: AND
  - 1. Highest levels of income-varying amounts of discretionary income
  - 2. Highest levels of education-high school completion or more AND
  - 3. White collar or professional-management job status.

<sup>&</sup>quot;It should be noted that the definitions cited here are different than those given in Adult Functional Competency: A

A 1977 report by USOE's Bureau of Occupational and Adult Education listed 120 current Adult Performance Level and adult competency educational projects in 3d states.

The APL approach was not only popular with solul educators around the country, but also received the seed of approach from the Jennit Dissemilation Review Panel (DRP) in HEW's Education Division in March 1975. "An enruth, the APL aduly was subsequently itself in the 1976 (DSC-approared carbon of recomplary educational programs, Educational Programs, and the Company of the Compan

Items developed from APL objectives were field tested on random samples of adults over 18 in the U.S. Five such surveys were conducted, objectives were obtained through interviews with business, industrial, and educational personnel, prospective employers, and target audiences; expert opinion; and literature research.

Given widespread nettonal interest among adult educators and JDRP approval, the API. study offered an opportunity for commercial enterprise. In March 1975, USOE and the University of Texas at Austin entered into an agreement with the American College Testing (ACT) Program under which ACT received the "exclusive tight to retine, adapt, publish, and distribute the API. materials." \*\* As Griffith and Ceveror (1977) observed (1977) observed.

Under the ACT framework emphasis was placed upon developing a test that would be entirely written, whereas the Texas version had included an oral portion to measure speaking and listenino.

As implemented by ACT, the "AFL Program" constitut of six instruments: an Adult Performance Level General Survey; containing 40 multiple-folice terms and evaluable in both adult and high school forma), and five Content Area Measures, one each in community resources, courselined instrudeling, consumer exconneits, health, and powerment and law and the state of the content of the

Because APL assessment items are linked to specific objectives and tasks drawn from everyday life, APL measures can assess functional competence more directly than traditional achievement tests.

The operational matrix with which the APL program functions is related to five life skills and five general content areas. (ACTP, 1977)

<sup>\*</sup>The JDRP reviews evidence of the effectiveness of educational programs, practices, and products developed under Federal auspices prior to the expenditure of Federal funds for disseminating approved programs, practices, or products.

<sup>\*\*</sup>APL curriculum materials currently are being published separately by Harcourt Brace Jovanovich under the title
"The APL Series." These are discussed in section 3.

The ACT maths, like that of the second phase of the Texas APL protect, listed community resources, consequential networkings, consumer economics, health, and government and law on the content zero dimension. But unable the Texas matrix, it listed identification of faces deems, reading, writing, compulsion, and problems solving on the skills dimension. For the ACT Program, the "definitionion of facts and items" skill was calcided and the "minestination of their start and the start of the ACT Program, the "definitionion of the ACT program, the "definitionion of the ACT program, the "definition of the ACT program, and program of the ACT program, and program of the ACT program, and the ACT preservation and the ACT program, and the ACT program, and the ACT

From such a practical point of view, it is easy to see why this skill switch was made. One might wender, however, whether "functional competence" which includes interpersonal relationship skills and excludes identification of facts and terms skills is the same as "functional competence" which does the reverse. However, before we get too far into such specific questions, we will exporte the broader literature critical of the APL study and the tests resulting from

### 2. Second Thoughts

The preceding account would indicate that the APL study was a highly successful undertaking: a 4-year research study resulting in widely publicized findings; approval by the JDRP as exemplary; adoption of APL materials into adult education endeavors in dozens of states around the country; and publication of six APL testing instruments as a commercial entermine.

But even as these events were occurring, several observors began to ask questions about the Pacedeaver. Although their comments have received relatively little attention, five critics—Ackand, Cervero, Griffth, Heller, and Natiger—seem to have raised significant and fundamental questions concerning the APL enterprise. These critics address the APL study from a variety of perspectives.

### Criticisms of API.

Griffith and Cervero (1977) have suggested that the APL study is historically and educationally shortsighted. "The belief that the APL approach is novel," they wrote, "is simply naive. The main characteristics of the concept have historical precedents extending back over a hundred years."

Griffith and Cervino traced efforts to define educational objectives in terms of the demands of contemporary like back is an 1861 inquity by historic Spencer. They also citie, without laboration, Ralph Tyder's 1960 admonition that one contemporary like are but one of the sources objectives for the school curriculum and. any contemporary like are but upon one of fines sources was theoretically deficient." They mention four bettind the black of fines sources was theoretically deficient. "They mention four bettind the black of fines sources was theoretically deficient." They mention four bettind the black of fines sources was theoretically deficient. They mention four bettind the black of fines sources was theoretically deficient. They mention four bettind the black of fines are sources.

- The endless proliferation of goals and objectives to which this approach leads.
- The emphasis of the progressive education movement on the Individual learner.
- Calls for a return to the critical dialectic approach to education as opposed to the life adjustment approach to learning.
- •The requirement that the curriculum designer decide in advance which types of people are "good clitzens, good parents or true believers."

Griffith and Cervero's point that the APL test "exemplifies a philosophy of adjustment to desting society in that it prepares people to perform the functions which are defined by the developers as necessary for success in society is reflected in sevent other criticisms of the APL endeavor. For example, Heller et al. (1978), in their critical description and analysis of the APL study and of curricula and programs that reflect the APL findines, observes.

The major problem, as we see it, was whether the APL study was an attempt to generate competencies that are essential to survival or competencies essential to success...(There are important differences (methodological, pedagological, and philosophical) in whether adult uncorrelated competency is conceptualized as menting stills and knowledge associated with success in contemporary society or whether or competency and an advantage of the contemporary society or whether or contemporary society or whether co

These critics point out that the APL study attempted to have it both ways, and, as a result, confusion regarding this distinction "premierates all published reports." For example, the field validation phase of the APL study was simed at showing significant positive associations between results on the APL sets them and respondent may be applied to the confusion of the applications that the study of the application of the application of the application and the application of the applic

Reviewers have also criticated the ways in which the APL survey data were analyzed and interpreted. The first comment on this aspect of the APL study, as far as we know, was by Acland (1976). He begins by noting the assumption underlying the enthusiasm to like-sells or an analysis of the sells of the action of the action of the sells of the action of

One APL item that Aciand analyzed asked people to use a mock atrline schedule to select a flight so that they could make an appointment in another city at a particular time. According

The AR. Host report equitions hist. "For those of you such one statistically inclined, Appendix C contrint an explantation of the procedure used to create the ARL levels." But whom one trains to Appendix C, all that is provided in an introductory-inclined and opinionation of Sayer Timerem in terest of develop and and back both from sum; there are no delates presenting the bactor on which the three ARL levels were delined. A recent paper by Williams (1977) addresses the problem of the Sayer S

to the APL study, 30 percent falled to choose the correct answer.\* As Acland notes, the APL developers apparently assumed that the airline schedule Item measured some general life-skill or competence. Nevertheless, Acland observes:

(The case can be made that there are skills which apply to checking alrilne schedules which are not necessary for other tasks. In that case it is prefinent to ask how many people use airlines. In September 1974, only one person in two (55 percent) had ever flown (Callun,) 1974. This makes the "bed" result look a fot less depressing; if the APL Indingl now seems to reflect differences in the tasks people face rather than differences in their mobiles solving state.

To Blustrate his point regarding different ways in which people solve the same problem. Acland clair setulity on an APL term indicating that only 93 percent of the population could correctly complete calculations for a partially completed Federal income tax form 1040 when provided with the pertinent information. In contrasts, he clair internal Revenue Service data indicating that only about 6 percent of individual returns extually contain entitlencie errors of any lad.

The reason that the APL results are much more discouraging is evident; in real life people get help. In fear, about half the individual returns are signed on the preparer's line, while a special survey undertaken for the IRS shows another 10-15 percent got assistance and did not report it. So at least 60 percent of all returns are made with some kind of help.

The two points raised by Ackand are essentially question, of measurement splicity—orise that are particularly crucial to any effort to seess the fault. competence. Plant, it comnot necessarily be inferred that a person lecke a perticular stall simply becommodated in a person lecke a perticular stall simply become produced in the processor of the person lecked and the problem of a person lecked and the problem of the person lecked and the problem in a person lecked and the person lecked and the problem in a person lecked and the person lecked and the person lecked and th

A more recent critique of the APL study, har raised questions about the validity of the APL states an easawer of innicional competence. Covered undeted and 1980) has employed a factor enables approach and reports their his excess of the APL states are consequently and an October 1974 administration of the 67-time version of the APL states are consequently as the state of the states are consequently as the state of the states are consequently as the state and combined to the state factor of the state and combined to these independent dimensions, the suggests that individuals abilities in the state and combined to the state and the

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Acting 5 article does not make clear the source of the APL results he cites. In personal communication (August ), however, Adami indicated that his source of APL data was computer printouts obtained directly from the University of Texes APL researchers.

"Based on the principle of parsimony, the APL test should be considered a measure of those things which we are reasonably sure a paper and pendit lest can measure—the three R's, rether than a construct which claims to represent the universe of behaviors which an effectively functioning adult must possess."

Another approach to assessing the quality of the APL test was adopted by Nafiger et al. (1975) in their rovitor of adult competency test. They used a method for assessing the quality developed by the Center for the Study of Evaluation (CSS) at the University of California at Nafiger and the Collagues reted the Texas version of the APL test as good in terms of examines appropriateness, fair in terms of measurement validity, but poor in terms of animateness validity, and etherical excellences (techding arout antiger for conversal and predictions).

The low ratings resulted in part from the unevailability of certain technical data on the original Texas version of the APL test. Such data [particularly reliability data) are now available for the ACT version of the test. We should also point out that the CSE approach to rating lest quality has been roundly criticized by some test experts as "incredibly subjective" (Anastasi, 1078)

If one does not agree with factor analytic approach, nor the concerns of measurement experts for technical quality of iests, an elternative method of assessing the quality of sets and what it measures is to look at "correct" responses to individual test items and assess their reasonableress and accuracy. This was one approach adopted by Heller et al. (1978). They commended on two of the original APL questions in the general knowledge area of government and law.

(APL Study Director, Norwell) Northcutt writes: "A shocking 34% of the (national seasement) amplied fell that police had the authority to detain a suspect for as long as a week, without bringing charges against time into recognizing the sligability of the control of the study o

Let's examine another item and the findings included in the national assessment. "Concerning the right to peaceful sensibly, 12 percent of the sample fill that premission to have public meetings about of not be given to certain kinds of groups; ad, "radicals" and "route-lements." Clearly, the wording of this listen asis the respondent for an opinion rather than the constitutional guarantee; the proportion of the properties of the properties of the proportion of the "Rolling of the Properties of the same properties of the manner."

### Validity of the Criticisms

This brief review of criticisms of the APL study and the test deriving from it has touched only the highlights. These five critics of the APL study and test collectively have charged that the APL study was:

·Largely ignorant of earlier relevant literature.

 Inconsistent in formulating and describing the framework and philosophy guiding the inquiry.

In error, factually, in formulating specific test items.

•Incorrect in interpreting the meaning of test item results.

Incomplete in analyzing test results and documenting test quality, with the result that
the very attributes that the test measured were misconstrued.

Taken together, these assertions might add up to a devastating indictment of the antice PAP, study. What should be made of them? If we are to judge the API, study as actientific inquity, these criticisms are, we think, essentially correct. We might quibble with some of the ricks' expurents, and allow with some of their documentation, but, essentially, their perceptions of the API, study as a schemic undertaking are sound. The authors of the API, study withing. Newtherise, these criticisms seem to be worth to genous attention.

We can illustrate our concerns about the APL study by focusing largely on the 1973 report and thereby show our concerns about: (1) the overall logic behind the study; (2) the idea of success embodied in the study; and (3) the quality and validity of the APL test items.

The first paragraph of the 1973 report states:

(T)he APL study is an attempt to define "functional" literacy in terms of observable behaviors in certain skills relating to a set of needs which have been tentatively identified as being important to "success" in adult life.

One need only think of recent concern in our seelety for the handicapped, including the visually imparted and the blind. In voweful about the plausability of the undertaking, Being abile to see is, after all, a fairly includemental skill, but it is by means a skill requisite to success for all people. The comparison may seem under; one con means a skill requisite to success for general undertakings. Neverthieless, we think! If illustrates a more generally member to the state of the properties of the state o

We are, in addition, more than a little uneasy with the way the APL study defined success in society—strictly in terms of income, education, and occupational status.

<sup>\*</sup>As Ites two known the only critisism that former API. Study Director Norvell Northcutt has responded to it the appeared liberappears as to whether the API. sets measures aucress or survival skills. Dr. Northcutt has said that, at the bottom end of the API. each, the test measures survived skills, while in its upper ranges it measures aucress skills.

The general assumption was that the more money a person makes, or the more education he has, or the higher status his or her job is accorded by our society, the more "successful" that person is. (Adult Performance Level Study, 1973)

One need only reflect for a moment to realize that success encompasses more than years of schooling, income, and occupational situats. These three things surely are important to many speople's definition of success, the stand in any undersiding, not only in the seek-ing after money, schooling, and success on the stand in any undersiding, not only in the seek-ing after money, schooling and success the standard standard in the APL study of years of schooling as a measure of success, and success the seek success that the APL instrument is altogether through the standard stand

Nevertheless, the bulk of the 1973 report creatist of turn-by item presentations of field in lessals in terms of the three citizent variables, and the results for all of the 17.6 mem show a statistically significant association with one or more of these citizento variables. However, the 1973 report also present date, in an appendix, showing the relationships be towen item results and several offer bedeground variables, including ethnicity, age, and city and the citizent of the second of the second control of the citizent 
These data suggest that a striking finding from the field trial was that the APL leaves distortinated relatively poorly in terms of respondent income. This point is important because much previous research has shown that income is easily the most important determined of status in the United States. Coharan and Reinwest (1978), for example, excendly concluded that "almost two-theids of the vertance in social status assigned by our respondents to tryopinterial failment described by income, occupation, and excholing was accounted for by in-

<sup>\*</sup>Griffith and Cervero (1977, p. 215) observe that "a measure of expressed personal satisfaction with one's vocation and general status in life" was at one point considered as an additional criterion of success, but apparently was dropped by the APL developers early in the study.

<sup>\* &</sup>quot;The issue of the reliability of this sort of self-reported background data is not addressed in the APL report, but clearly is one that merits attention.

<sup>\*\*\*</sup>We should note that the relationship between test item results and background variables may have been affected by the way in which the batte were collapsed by the APL study authors. (See pp. 11-12 of the 1973 study report.) It is unclear exactly how collegating criticine variables affected the association between test litera results and ditetation vertables. Methodological work on deta aggregation suggests that it would artificially inflate such relationships. (See Black). 1961.)

# TABLE 2

# NUMBER (AND PERCENT) OF APL ITEMS (1973) FOR WHICH RESULTS SHOW A STATISTICALLY SIGNIFICANT ASSOCIATION WITH BACKGROUND VARIABLES

				Bac	Background Variables	sles		
Knowledge Areas	Total No. of Items	Ethnicity	ABE Levels	Age	Education	Income	Occupational	City Size
Occupational Knowledge	37	31 (84%)	31 (84%) 37 (100%) 30 (81%) 37 (100%) 15 (41%)	30 (81%)	37 (100%)	15 (41%)	18 (49%)	37 (100%)
Consumer	900	49 (98%)	49 (98%) 50 (100%) 42 (84%) 50 (100%) 20 (40%)	42 (84%)	50 (100%)	20 (40%)	35 (70%)	48 (06.9)
Health	80	8 (100%)	8 (100%)	8 (100%)	8 (100%) 8 (100%) 8 (100%)	3 (38%)		8/100%
Community Resources	22	22 (100%)	22 (100%) 18 (82%) 22 (100%) 2 (9%)	18 (82%)	22 (100%)	2 (9%)	18 (82%)	22 (100%)
Government								

Summarzed from Adult Performance Level Project Staff, The Adult Performance Level Study (Austin, Texas: Texas. Education Agency, 1973) pp. 272-285. It is not made clear what confidence level was used for this report in determining statistical significance. Hence, these data are simply summaries of results reported to be significant in the appear dat ables of the 1973 report. Specifically, different portions of each exercise, which were screed separately, are trained Source:

23 (100%) 23 (100%) 23 (100%) 174 (99%) 150 (86%) 175 (100%)

175

35 (100%) 23 (99%) 173 (99%)

26 (74%) 22 (96%) 126 (72%)

21 (60%) 14 (61%) 75 (43%)

29 (83%) 35 (100%) 23 (100%) 23 (100%)

34 (97%)

33 (94%) 23 (100%) 166 (95%)

8 8

& Law

Transportation

While is it that results for several dozen APL test items are associated with respondentel ethicity, age, and city size more strongly than with their income? Since the authors of the 1975 APL study report did not even acknowledge this fact, much less captor it; we have little way to address this question directly. Nevertheless, an examination of some of the APL items suggests some possible exchangions. For examine, one of the 1973 APL test litems was

Mary Dilly is a housewife. She needs to make some extra money for a while. She can type, bake, and sew. The quickest thing for her to do to make money is to:

- a. Apply for temporary office work
  - b. Go to school.
- d. Make her own clothes.
- e I don't know
- (The Adult Performance Level Study, 1973)

Osterably, the "correct" assert to this question is option a. According to the appendix to the 1973 report, resides on this lies were established by self-instally pleased to respondents' ethiciity and oby size, but not to their income or occupational setats. It is easy to insegine why blacks and Mexican-Americans may have septemicans the place self-installed the "correct field simply because they are proportion than did whites (which the appendix data indicate they did simply because they are may have septemicate demployment districtional tool sealing them to conclude that applying for a temporary job is not a way to earn quick money. This is, of course, pure speculation, but the important point is that the assertion that there is one "correct" asserts is unsequent.

Other test items from the 1973 report are similarly ambiguous. This poor quality in test items persists in the ACT version of the APL test. Question number 13 on the ACT's APL Assessment Instrument (Form AA-1), for example:

The city garbage truck has not picked up Esther Maxey's garbage for three weeks. Eather is having trouble keeping the files and mice away. What should she do? a. Take the garbage down the street to an empty lot.

- b. Call the hospital to complain about the mice.
- c. Call the sanitation department about the problem.
- d. Cover the garbage with a sheet.
  - (American College Testing Program, 1978)

We suppose that the intended "correct" answer is option. C. But given the infamous in efficiency, or many cities in public services, a pleatible argument could be made for other answers as well. If this test item measures and public services, a pleatible argument could be made for other answers as well. If this test item there is of social propriets. But fire notion that this sort of test term measures "adult," competence" or even competence in figuring what to do with one's getbage is altogether mercosterous.

We could go on, but we trust our point has been made: As a scientific inquiry, the APL study was very week. Even if we put askide doubts about the existence of a general construct of "adult competence," the much publiched finding that 20 prevent of American adults are "functionally incompetent" on the basis of the design, conduct and reporting of the APL study is allocated the remeable. We are remaineded of the conclusions down in the early vears of mental is allocated the rutherable. We are remaineded of the conclusions down in the early vears of mental and contributions of the carry to the early vears of mental and contributions of the carry to the contributions of the c

testing in this country concerning the average mental age of Americans. Our view of the sclentific ment of the APL study's conclusion parallels that of Walter Lippman's on the idea, drawn by a Mr. Latimop Stoddard some 57 years ago, that the mental age of Americans was only 14. One need only substitute "functional incompetence" for "mental age" to see the significance of Mr. Lippman's remarks for the APL study.

(The data themselves lead to no such conclusion. It is impossible that they should, it is quite impossible for honest statistics to show that the average adult intelligence of a representative sample of the nation is that of an immature child in that same nation. The average adult intelligence cannot be less than the average adult intelligence, and to anyone who knows what the words "mental ages" mean, Mr. Soddurfs' semant is practicely as slity as if the had written that the average mile was

The mobile is that Mr. Sloddard uses the words "mental age" without explaining either to immedio to bit raceters not the conception of "mental age" is derived. It is was in such an enormous hurry to predict the ownerful of civilization that he could not puese long enough to estaphties not a few simple sless. The result is that he satisfies at a few certifying slettlike and uses these set upon which to exect a gildering lower of generalities. For the statement that the average mental age of Americans is only about fourteen is not inaccurate. It is not incorrect. It is nonsense.

# 3. Science, Promotion, and the Nature of Adult Education

If the scientific merit of the APL study is Indeed as questionable as we suggest, why did it cause such an upheaval in the world of adult education? One possible explanation has been suggested by Griffith and Cervero (1977), who point out:

The APL approach has been thoroughly and effectively publicized and promoted by the U.S. Office of Education. It is not possible to point to any other development in the field of adult education which has been given as much sustained attention as has the APL project.

USOE may have promoted the AFL study for several reasons. Some critics have charged that, from the very lessance of the 1970 re study of adult competence, USOE was committed to the proposition that the study would lead to a statement of objective for an adult declaration systems round which an around which are study to the controllatum and instructional masterial could be developed. For example, Griffith and Carrollatum and instructional masterial examples of the controllatum and instructional material remarkable that U.S. Office of Education personners and the commental thing. "It seems remarkable that U.S. Office of Education personners and the controllation of the Carrollation personners and the controllation of the Carrollation for the United States."

Such expectations, at least in terms of the tenets of educational research justification, may not be as unusual as Griffith and Cervero suggest. In fact, much federally sponsored research on education is premised on the notion that it will lead to improvements in educational prac-

tice. Such initial expectations should, of course, not preclude subsequent decisions that the ex-

# Why APL Spread

As noted in section 1, the APL study was approved by the JIBPR pM March 1975 and lasted in USO'E s cassled of JIBPR approved projects [Educational Program That Uso'h is 1976.<sup>2</sup>

The APL study did not constitute an educational program. According to the APL submission that JIPR, if represented a project of repeticy the compensation with the case of the approximation of the JIPR. If represented or the APL submission of the JIPR, if represented or the APL submission of the JIPR. If represented or the section is section to the APL submission of the APL submission of the APL submission of the APL submission of point of the APL submission of the APL submission of point of the APL submission of the Intel® States. The APL submission of point of the APL submission of point of the APL submission of point of the APL submission of the APL submission of point of the APL submission 
It is true that the APL is not an educational program. However, the staff of the CB Adult Education Program has been mading efforts to change the orientation of its projects from an emphasis on traditional, scatemically oriented basts still material (e.g., Dick and dance readers) to emphasis on the achievement of functional literacy measures like the APL. They therefore wonted to disseminate that technique, and in order to do so were required, of course, to receive NDRP approved. (Evers. 1990.)

Following JDRP approval, USOE moved quickly to promote the APL approach. On April 23, 1975, that agency published rules and regulations in the Federal Register governing Federal filanancial assistance to state adult education programs under the Adult Education and of 1966. A section entitled "Esablishment of national priorities in adult education," stated:

...the U.S. Office of Education will review and identify, for the guidance of the sate deuclational agencies and (self infinity from other research communities, national priorities annually in the field of adult education and as necessary, will publish nor-rest priorities in the Federal Register. The state educational agency may take these priorities into consideration for its guidance in the development of its annual program of priorities and objectives under the annual program plan. Each state is requested in its annual program plan to indicate how the priorities established by the 1975, p. 1975 if dolt to published antional priorities. "Verdeut Register, April 23, 1975, p. 1975."

Included in these rules and regulations was an appendix entitled, "Priorities for Programs of National Significance," which stated:

Adult performance level implementation. By the end of fiscal year 1975, the Adult Performance Level (APL) test and objectives will be completed and available for im-

<sup>&</sup>quot;In the bird edition of Educational Programs That Work (USOE, 1976), the APL study was described as "a research study to identify and seem scale flamentamic competency (identify)." (5. 72) in the fount relation of Educational Programs That Work (USOE, 1977), the DEPT approximations and date managed the same as in the third identification, that the description of the APL studyed, This failing was now a "competency-leading signed and education that combines diagnosis, prescription, securing, evaluation and possible recedentaling of the copies

plementation. States should plan to utilize section 309 and other funds in support of projects to conduct a statewide literacy assessment and to develop instructional programs designed to meet APL objectives. Also encouraged are staff development or special projects within focus on the translation of APL objectives into curriculum and teacher competencies. Careful attention should be paid to the avoidance of overlap and digitation in these development. Federal Regular, April 25., 1975, p. 1975, p. 1976, p. 1976

Two points are noteworthy with regard to USOE's proclaiming this priority. First, it was used long before the ruthy's final report was completed. Second, this priority gave Federal sanction not only to the general notion of organizing adult education so at to meet the life and coupstional needs of a dutils with two levels of formal schooling, but to one particular most of the complete of the control of the c

Perhaps one might view the API, project not as a scientific inquiry, but as a very effective exercise in marketing ideas for adult education. Indeed, given American passion for worldly success, the justification of the API. test items in terms of their mathematical association with indicators of success in life would appear to be a stroke of marketing genius.

The notion of basing the APL study findings on a nationwide statistical survey also greatly enhanced its potential for garnering public attention. As Daniel Boorstin, in *The Americans*, *The Democratic Experience* (1974), has written:

The distinctive fact about statistics in the United States was not their rise as a learned specialty. One by-product of democracy was an unprecedented popular diffusion of statistics, and in the twentieth century a new kind of number consciousness captured the public mind.

The number consciousness of the public and the American passion for worldly success to help to sepain with the temperature conclusion of the API, study—that one title of LIS, adults are "functionally incompetent"—received such widespread attention. But neither of Ederal Collision of Study and the study of API, on the world of adult education. After all, the Federal Collision of the Study and the Study of 
The Adult Education Act of 1966 emphasized "which hate; education"—defined as elucidation for adults whose inability to speak, sead or write the English leaguage greatly impairs that ability to get or retain jobs commensurate with the Wellstabblind Comprolled Commental, 1979, for problem with fullifing this mandate is the well-stabblind and the control of the delication vortes directly with adults' previous educational attainment. Particle Const (1978), for example, clear data showing that participation rates in dutle deuce-

<sup>\*</sup>Other stated priorities dealt with dissemination of improved programs and practices at the state level, the role of employees, staff development, and experimental and demonstration projects.

tion in 1975 ranged from 30 percent for adults with 5 or more years of college, to 12 percent for high school graduates, to only 2 percent for those with an elementary education or less (0 to 8 years of schooling). A 1975 review by the Comptroller General of the adult basic education program authorized by that legislation confirms this general condition.

Only about one percent of the Adult Education program's estimated target population of 57 million adults (16 years of age or older and not enrolled in school who have not completed their secondary education) and four percent of the 15 million adults with less than eight years of school have participated in any given year.

As a result of this review, the Comptroller General recommended, among other things, that the U.S. Office of Education:

 emphasize recruiting and educating participants from the first priority group (adults functioning at the fourth grade level or below);

 develop a system to identify potential benefits of special projects and to insure maximum dissemination to, and adoption of their results by state and local management levels.

Given these recommendations and USOE's agreement with them (Comptroller General, 1975), it becomes easier to understand why the API, study was greeted enthussatically at USOE and why that agency promoted the API. approach even before the study if final report was finished. The API study not only supplied damatic evidence of the need for adult basic education, but also provided a framework for organizing actair education activities to respond to the need.

In congressional hearings in 1976, Daniel Flood (D-Pa.), then chairperson of the House Appropriations Subcommittee on Labor and Health, Education, and Welfare, asked USOE officials what they planned to do to resolve deficiencies identified by the APL study. Paul Delker, director of USOE's Division of Adult Education, explained:

...the basic purpose of the study was to define the educational fields of adults. And that study does, in the form of 65 objectives, identify the knowledges (sic) and skills which adults must have if they are going to function effectively.

We met just last month with all of our state discretors in Texas, with the (APL) project staff, in planning how the states with Bulled curriculum and develop more effective systems based on this more accurate definition. The money which the Congress in 1974 authorized for experimental demonstration authority at 15%, does give the resources to the states to take the ball and run with it. (U.S. Congress, 1976, n. 440)

USOE not only provided financial resources to the states to take the APL. ball and rum with the—what the priority placed on APL, with respect to the section 309 exceptimental and demonstration monies, which in 1976 amounted to around \$10 million—but also provided more direct promotion of the APL. In 1977, for example, USOE sponsorder regional workshops to introduce adult educators to the APL approach. Also, a number of adult educators must in Tesus the devices curriculum materials to be bil immiserant the APL approach. But it was not just USOE promotion that made the APL approach attractive to adult educations. The APL seemed to organize adult education activities so as to overcome obstacles to participation by less well-deucated individuals. As Kjell Rubenson (1978) observed:

In this light, it becomes easier all to appreciate the attractiveness of the APL to adult existence. APL encouraged adult elicitation to adopt a form quite different from the three R's orientation of inclinational schooling and to do so in a way that seemed to promise adult learners with improvements in their general living stations and advantages in the labor ranket. Not Much of the APL curriculum development work has been done by the salf of the Adult Personance Level Popete of the University of Feas and Austra-The-same group that conducted the APL station. The Adult Personance Level Popete of the University of Feas and Austra-The-same group that conducted the APL station of the APL sta

Perhaps the most important thing to consider in judging the value of the APL. Series is the content. Traditional skills like reading and computing are treated as the means to an end—rather than as ends in themselves. The like-coping information your odult learners will spin through these materials will serve them well long after they leave your classroom. (p. 7)

When one looks into the sample of the APL series content provided in the promotional books, or find a enange of practical information dealing with everything from family budgeting to job finding and health care. This information is organized into the same five budgeting to job finding and health care. This information is organized into the same five monolega area as in APL series (consumer economics, occupational knowledge, health, relief to the control of the contro

The introduction to these "what would you do" situations advises that, "...there are no right or wrong answers. Everyone has to deal with a problem in his or her own way." This ad-

<sup>\*</sup>For an account of other efforts to develop curriculum materials appropriate to the APL approach, see Helier et al., 1978.

<sup>&</sup>quot;These materials are divided into eight units: consumer economics I, II, and III; occupational knowledge; community resources; health I and II; and government and law. Each unit contains a reading book, student workshook, teaching measus, and tender to the control of the cont

vice seems entirely sensible in light of the criticisms of the APL study and ast. Indeed, this dischieriner seems entirely appropriate to a host of whall competence problems—inducing whether radicals and trouble-makers should have the right to produce assembly, what Mary Dilly should do to make quick money, and what Elser Marce quick of own the garbage—but flees in the face of the assumption implicit in the multiple-choic format of the APL test that there are uniform falls and wrone answers to such problems.

The advice also brings us to what we see as the primary value of the APL approach to adult advacation. Simply put, the APL approach has helped diversify methods of organizing adult basic education. It need not be arranged entirely around the traditional three R's of schooling. Rather, it can be organized in terms of real experiences of adult learners.

This view seems to be substantiated by the opinions of servent sold inchestors with whom where talked doubt the experiences with APL materials. One sed, for example, that the materials serve as a supplementary source in planning lessons for adult learners around rise mon concerns, but not as primary one. Another recounted that the APL like-felds approach has proven useful, but that the APL curriculum, based on the 65 APL objectives, has not been toolly adopted, in sum, among the small and completely unsystemate sample of adult education with whom we subset, none had adopted either the APL test or the curriculum forms of the control of the cont

In sum, the rapid spread of the APL concept and the curriculum materials can be attributed to the convergence of a number of factors in the mid-1970's:

- •Its acceptance by the Joint Dissemination Review Panel
- USOE efforts to inform state adult education leaders of the results of the APL study and, via Federal funding, to encourage adoption of its objectives in adult basic education programs.
- The recognition that the APL approach offered an attractive alternative to traditional ABE programs, which reached only a small proportion of the eligible population.
- The development of curriculum materials that did not adhere to the assumptions of the original APL idea.
- The fact that adult educators could adapt APL to their own needs.

In these respects, the Influence of the APL study seems to have been largely solutary. Detile see respects are largely contrary to the narrow conception of competence ambidded in the APL test lited—liq the original Texas version and, to an even greater extent, in the APC Instrument, which uses the mulliple-choice formal exclusively. So the APL enterprise seems to us to have prompted two different sendencies in adult basic education. On the one hand, it has heped to broaden conceptions of how sold libestice descion can be organized and his entitled the body of curriculum materials available to bodil educations. But on this other hand, it has been appropriated to the contraction of the sendencies of the contraction of the sendencies.

## Areas for Further Study

This APL story series, we think, to nite some larger questions about both the recent entiestion for competent justing sensembly and the means by which deuticational clears and innovations are communicated to and influence educational endeavors. In the marketplace of eleutational idea, high period seems to have a perament place. If the end results of a social inquiry like the APL study are largely subtray—having produced some useful adult education curriculum manerals and broademed conceptions of how adult education can be organized—that reader might women why we are so that his the subtraction of the conpetition of the control boundary of the control of the con

Though some of the developments flowing from the APL study may appear excellent, it is of the first inportance that education realise exactly what such improvements signify. For matchel will follow it there is contained about the meaning of these reforms. If, for example, the impression takes or odd that Park Less "includings" pressure adult comprehene, then it is not possible, we think—spain paraphrating Lipman—to imagine a more contemptable it is not possible, we think—spain paraphrating Lipman—to imagine a more contemptable proceeding than to control an adult with a set of multiple-choice litems and, effer a bit of monkeying around with them, proclaim that person functions(b) incompetent. It would not not be a set of the process 
This leaves us with two sets of questions on the API, tests and curriculum materials and on and the back education. It seems to us that firm one should be shered about two the API, tests and materials are being used. Are the test in fact being used to draw summary conclusions obtain a thickhalds overall competence of How do shall educators who use the tests and curriculum of the control of the state of the control of the c

We have not, in this beff evides of the APL study and its progeny, been able to examine these questions in any dept. Nevertheless, we think that answers to them are of far more than merely accidentic interest. McClarg, for which the product of th

Beyond questions directed strictly at the API, study and its progeny lies another set of questions about the state of abilit basic electrons in the United States, indeed, we think these questions are far more important than those diet in the API. anterprise. For as we have telled to have in this bert pears, the poble ancress of the API. anterprise. For as we explained by the scientific quality of the API. study nor even by USO III about a sense in the top the post of the API. and the program of the API and the area of the API and the API an

training for adults be tied more closely with adult basic education programs? How does the APL approach to adult basic education relate to other forms of adult education?

Adult education programs almed at adult "carring the General Educational Development (GED) degree, for example, tent to serve adults with more formal schooling (5 to 12 years) than those in adult basic education. The GED criented programs a letter of the control than those in adult basic education. The GED criented programs a like the relationship between these two approaches to adult aducation? To what extent, if any, are the "His-sidils" approach in adult probase education (coremplified in the AFL) and the "School-sidils" approach in adult prediction (oxemplified in the GED) leading to a strattled system of adult education? How credentialling role of adult in the GED (seeding to a strattled system of adult education? How credentialling role of adult in the GED).

These are some of the questions that this review of the API, enterprise has raised in surminds. We realize that there will likely be no dear-cut naveur to many of them. Alterdings to them is, nevertheless, of considerable importance. For if we do not, it may happen that the tendency in the API, enterprise toward an enterprise value on other atomic base deucation can consider the approximation of the approximation of the approximation of the second considerable and enterprise and the approximation of the ap

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