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#### ABSTRACT

The annual report of the Northwest Regional Educational Laboratory summarizes research and development work and technical assistance activities in 15 programs and projects administered through four laboratory divisions. Among topics covered are improving teacher competencies, rural education, intercultural reading and language development, Alaskan telecommunications, career education, manpower counselor training, adult education, Samoan education, and evaluation, audit and assessment projects. A complete listing of individual projects is included and a three-year staement of income by programs and funding agencies given. (SK)





Northwost **Bogional** Educational Laboratory

# Annual to Aspend to Manhaits



### **Northwest Regional Educational Laboratory**

# Annual Report to Members

#### Mission

The mission of the Laboratory is to improve educational processes by:

- Developing educational products and procedures based on scientific knowledge and technology
- Assisting institutions, organizations and agencies in installing and using effective products and procedures

#### Governance and Membership

A nonprofit organization, the Laboratory is governed by a 27-member Board of Directors. A total of 822 member institutions participate in cooperative planning, development, evaluation and dissemination activities.

#### Staff and Facilities

The Laboratory is headquartered in the seven-story Lindsay Building and occupies space in the nearby Loyalty Building and World Trade Building in downtown Portland. Field offices are maintained in American Samoa and Tacoma, Washington.

The Laboratory has a staff of more than 200 full-time employees.

#### **Finance**

Contracts with the National Institute of Education, U.S. Office of Education and other federal agencies, State Education Agencies, colleges, schools and other organizations provided \$6.27 million for Laboratory activities during 1974.

#### **Programs**

Research and development work and technical assistance activities are carried out in 15 programs and projects administered through 4 Laboratory divisions.

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# **Programs**

IMPROVING TEACHING COMPETENCIES PROGRAM 3
RURAL EDUCATION PROGRAM
INTERCULTURAL READING AND LANGUAGE DEVELOPMENT PROGRAM
COMPUTER TECHNOLOGY PROGRAM
PROJECT PLANIT
ALASKA TELECOMMUNICATIONS PROJECT
CAREER EDUCATION PROGRAM
AREA MANPOWER INSTITUTE FOR DEVELOPMENT OF STAFF10
MANPOWER COUNSELOR TRAINING PROJECT 1
ADULT EDUCATION PROGRAM
SAMOA EDUCATION PROJECT
EVALUATION AND AUDIT PROJECTS
ASSESSMENT PROJECTS
EXPERIMENTAL SCHOOLS EVALUATION PROGRAM 16
OTHER TECHNICAL ASSISTANCE PROJECTS



### Improving Teaching Competencies Program

Traditional school methods and curriculum content are centered mainly on the transmission of information. Comparatively little emphasis is given to providing students with the knowledge, skills and attitudes necessary to become responsible individuals capable of living interdependently in a world of continuous, rapid change.

Generally, schools have met objectives which center on coenitive learning for students with high intellectual ability and motivation. They have been less successful in promoting individual worth and dignity, self-understanding and maximum potential for individual growth.

To help meet this need, a set of instructional systems is being developed to conduct inservice workshops and campus courses for teachers and administrators.

#### Completed Instructional Systems:

INTERPERSONAL COMMUNI-CATIONS (IPC) - NWREL-trained instructional leaders at colleges and schools used the training program to conduct workshops and courses for 848 school personnel in capabil ities to communicate with students. the community and each other Publisher's records indicate the materials were used for training an additional 2,492 teachers and administrators.

RESEARCH UTILIZING PROB-LEM SOLVING (RUPS) - Classroom and Administrators versions the system were used by NWREL-trained instructional leaders at colleges and schools to conduct workshops and courses in problem solving skills for 632 school personnel Publisher's records indicate the materials were used to train an additional 1.045 teachers and administrators

SYSTEMATIC AND OBJEC-TIVE ANALYSIS OF INSTRUCTION (SOAI) - NWREL-trained instructional leaders at colleges and schools used the training program to conduct workshops and courses for 204 school personnel in interpersonal relations skills, supervisory techniques and teaching strategies Publisher's records indicate the materials were used to train an additional 217 school personnel.

DEVELOPMENT OF HIGHER LEVEL THINKING ABILITIES -The system was used by NWRELtrained instructional leaders at colleges and schools to conduct workshops and courses for 197 teachers in teaching strategies which increase student's problem solving capabil-Publisher's records indicate

# 8,933 TEACHERS, **ADMINISTRATORS GAIN NEW** SKILLS IN COURSES. WORKSHOPS

Major inservice efforts were underway in Fairfax County, Virginia; Detroit; the states of Florida and South Dakota: Minneapolis: Spokane and Seattle, Washington; Portland; Montgomery County, Maryland and Australia.

Instructional leaders trained by the Laboratory conducted 140 courses and workshops for 4,751 teachers and administrators during 1973-74 school year. Sales records of publishers indicate NWREL materials were used to provide training for an additional 4,182 school personnel during 1974.

Development and evaluation of six new training systems progressed during the year.



Seattle workshop in Preparing Education Training Consultants

the materials were used to train an additional 321 teachers.

FACILITATING INQUIRY IN THE CLASSROOM Teaching strategies which encourage student inquiry were gained by 248 teachers in workshops and courses conducted by NWREL-trained instructional leaders at colleges and schools. Publisher's records indicate the materials were used to train an additional 139 teachers.

INTERACTION ANALYSIS -The system was used by colleges and schools to conduct workshops and courses for 332 teachers in techniques of Interaction Analysis.

SYSTEM APPROACH FOR EDUCATION - Seventy-five teachers were trained in the systematic planning process.

#### Instructional Systems Under Development:

INTERPERSONAL FLUENCE -- Field testing and experimental use of the system for increasing skills which enable people to clarify misunderstandings usually mistakenly dealt with as conflicts involved 704 teachers and administrators.

SKILLS TRAINING (PETC I) -Increased skills in selecting, adapting and conducting training programs were gained by 359 teachers and administrators participating in field test workshops. As part of the training, they in turn conducted workshops in Group Process Skills for 949 other school personnel.

CONSULTATION SKILLS (PETC II) - Field testing and experimental use of the system for

increasing consulting skills for improving the organizational functioning of a school involved 66 teachers and administrators.

ORGANIZATIONAL DEVEL-OPMENT (PETC III) - Trial of the program for increasing organiza-tional development skills involved 36 teachers and administrators.

RELEVANT EXPLORATIONS IN ACTIVE LEARNING (REAL) The first 14 learning packages were tested with 45 teachers.

CONFLICT AND NEGOTI-ATIONS - Twenty-four teachers participated in the first trial of the training program



University of Idaho summer workshops



8,933 Teachers Trained

Systems Completed Res. Util. Prob. Solv. (Adms. Vers.) System Approach for Education

7,300 Teachers Trained Systems Completed. Res. Util. Prob. Solv. (Classroom Version)

Sys. & Obj. Anal. of Instruction

Int. Com.

26

7,200 Teachers Trained

7,800 Teachers Trained Systems Completed: Facilitating Inquiry in the Classroom Interaction Analysis

7,600 Teachers Trained

6,500 Teachers Trained

2,500 Teachers Trained

300 Teachers Trained

Program Begun Lab Established



#### Rural Education Program

In recent years programs for schools in rural communities have been planned largely by agencies outside those communities, and local people have not had the means to initiate and carry out educational changes they desired. By enlarging the capacity of local people to solve educational problems, states can help rural communities have greater influence over the nature of their schools. As community representatives, students and school personnel with their school boards, join in planning school programs, they can have a positive and lasting impact on local learning opportunities and educational achievement.

The Laboratory is developing a Rural Futures Development (RFD) Strategy that encourages communities to use carefully planned, step-by-step approaches to design new school programs, install them and determine their success. At the same time personnel in State Education Agencies are being trained to coordinate RFD Strategy work statewide.

STRENGTHENING LOCAL SCHOOL AND COMMUNITY CAPABILITY FOR CHANGE — Materials and procedures were designed for four complementary, systematic change and development processes

- Community Change Process
- School Renewal Process
- School Leadership Development Process
- School Board Development Process

ENHANCING EDUCATION AGENCY SUPPORT FOR CHANGE – Materials and procedures were designed to assist personnel in state and regional education agencies in utilizing the RFD Strategy including.

- RFD Strategy Descriptions
- RFD Support Agency Guide
- RFD Training Plan and Materials
- Process Facilitator Manual



# TRIAL OF RURAL FUTURES DEVELOPMENT STRATEGY BEGUN IN UTAH

The design, development and testing of sets of interrelated materials and procedures for improving rural schools progressed at Washington field sites. Trial of a training system for State Education Agency personnel was carried out in Montana.

The first complete test of the entire Rural Futures Development Strategy is underway in Utah.



NWREL Rural Education staff works with San Juan (Utah) School District staff (center right and bottom right) and schools in Okanogan County, Washington, to carry out RFD Strategy





Trial of Integrated RFD Strategy Begun

Teacher, School and Support Agency Strategies Added

Development of Community Change Process Begun

Program Begun Lab Established

# Intercultural Reading and Language Development Program

The different language patterns, value systems and personal experiences of many children from varied cultural backgrounds result in a need for special teaching materials. There also is a growing awareness on the part of many cultural groups that their children are growing up without the knowledge and appreciation of the unique characteristics of their culture.

To help meet these needs, reading and language development materials are being created for elementary grades. The systems are designed to increase reading and language abilities and at the same time, bolster pride in ethnic heritage and confidence in abilities to achieve.

NORTHWEST INDIAN READERS - Indians in three regions of the Northwest continued the design and development of materials for the early elementary grades. Plains Indian materials are being tested in Montana. Plateau Indian materials in Oregon, and Coast Indian materials in Washington.

GUAM READERS — First grade materials were printed for all elementary schools on the island Evaluation of second grade materials continued and third grade materials were introduced in test classrooms.

CHAMORRO LANGUAGE AND CULTURE COURSE - Development was begun on a Chamorro language and culture course for junior high students in Guam

ALASKAN READERS — The Eskimo, Indian and Aleut Printing Company in Fairbanks is printing and distributing the Alaskan materials, which are being used during the 1974-75 school year in 77 village schools.

SPECIAL EDUCATION MATE-RIALS — Vocational and career related materials in language skills, social skills and work habits are being developed with the Hawaii State Department of Education for mentally retarded children in Pohukaina and Waimano Schools.

COMMUNICATIONS MOD-ULES — Testing of "Strategies in Communications," units for increasing listening, reading, speaking and writing skills of junior high students, was completed in 27 Northwest school districts. The materials are being prepared for publication and general use.

## MATERIALS MEET SPECIAL NEEDS OF ALASKA, GUAM, HAWAII, NORTHWEST INDIAN CHILDREN

The use of first grade materials developed by Pacific Northwest American Indians began in selected schools in Idaho, Montana, Oregon and Washington.

First grade materials were printed for all elementary schools in Guam, while evaluation of materials for second and third graders was underway at test schools.

The Eskimo, Indian and Aleut Printing Company in Fairbanks continued to print and distribute Alaskan Readers to village schools.

Development of vocational and career related materials in language, social skills and work habits for mentally retarded children began with the Hawaii State Department of Education.



Northwest Indians develop reading and language materials







Hawaii Materials Begun

Alaskan Readers Completed

Indian Readers Begun

Guam Readers Begun

Alaskan Readers Begun
Lab Established



# Computer Technology Program

The use of computers for school administration and instruction is increasing.

Two things are needed for expanded and effective use of computers in schools.

- 1. Teachers and administrators who are knowledgeable about potential and appropriate computer applications
- 2. Curriculum materials which are available for teachers to use in the classroom

#### Curriculum Materials:

ELEMENTS OF COMPUTER CAREERS — The career education materials for high school students have been completed and are being published this spring by Prentice-Hall.

PROBLEM SOLVING UNITS — Prototype units in science, social studies, business education and energy/environment have been drafted.

#### Training Materials:

INTRODUCTORY AND APPLICATIONS COURSES — A completed introductory course, applications course for teachers and application course for administrators are available through Tecnica Education Corporation. Major trial of the materials as part of a graduate program in school administration is taking place at the University of Idaho; a major inservice training program was completed in Utah.

THE COMPUTER IN DATA MANAGEMENT/DECISION MAK-ING — Trial of materials at Northern Arizona University and Portland State University produced data for revision of prototype materials. Revised materials were further tested at Northern Arizona University and the University of lowa and are ready for publication.

SELECTING, SPECIFYING AND DEVELOPING COMPUTER INSTRUCTIONAL MATERIALS—Trial of materials at 10 workshops involving 250 Minnesota teachers produced data for revision of prototype materials. The materials on "selecting" were revised and further tested in Minnesota.

# PRENTICE-HALL PUBLISHES CAREER EDUCATION MATERIALS IN COMPUTER OCCUPATIONS

"Elements of Computer Careers," published by Prentice-Hall, provides materials for high school students.

Introductory and applications courses are being used both for inservice training at schools and as part of graduate programs in school administration at universities.



University of Idaho uses computer units in educational administration program



World's Fair visitors try NWREL computer unit on energy



Career Education Materials Published

1973

Introductory and Application Courses for School Personnel Completed

Program Begun

1970

**/9**6

Lab Established

Secondary school administrators at Granite School District, Salt Lake City, in computer training session



#### **Project PLANIT**

A computer language which can be used on a variety of different time sharing systems greatly facilitates the writing and use of computer based instructional materials. PLANIT (Programming LANguage for Interactive Teaching) is designed for use on various computing equipment of the type that is normally operated on college and university campuses.

PLANIT includes a language for authoring instructional course content and the logic for administering it automatically and simultaneously to a group of students working at computer terminals. The author prepares his material in the PLANIT language either at a terminal or on cards and the time sharing system presents it to students, automatically keeping performance records. The system, which is contained in a single magnetic computer tape, can be installed on a variety of computers with much less effort and expense than any other comparable computer program.

PLANIT DEVELOPMENT — Under development at various institutions for some 10 years, the language for computer assisted instruction has been completed and a dissemination system and materials prepared. It is now in use at more than 20 universities.

PROFICIENCY MAINTE-NANCE INSTRUCTIONAL MOD-ULE – A translator program for Installation of PLANIT on Litton's ANGYK-12 TACFIRE computer at Ft. Hood, Texas is underway.

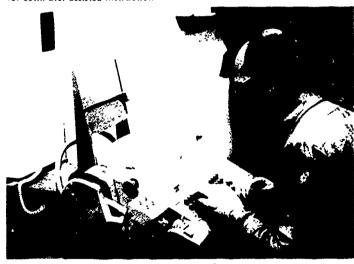
## USE OF COMPUTER LANGUAGE RANGES FROM UNIVERSITIES TO MILITARY BASES

Debugging of the PLANIT computer language has been completed and it has been packaged for general use. PLANIT is being used at more than 20 universities.

A translator program is being developed to install PLANIT on a Litton-built computer for U.S. Army education programs.



Project PLANIT Director Charles Frye explains new language for computer assisted instruction



Teachers need not know computer language to develop their own instructional units at teletype terminal



Dissemination Begun

974

1973

Debugging Completed

Project Begun

196

896

796



#### Alaska Telecommunications Project

The spring of 1974, the ATS-F satellite was launched as part of a program to demonstrate the potential applications of communications technology to education. The National Institute of Education awarded grants to three regional organizations for the initial planning and subsequent operation of experimental demonstrations. The Office of Telecommunications of the Office of the Governor of Alaska, the Federation of Rocky Mountain States, and the Appalachian Regional Commission. These demonstrations explore the use of satellite distribution of educational television materials and other services.

The Alaska Office of Telecommunications contracted with the Laboratory to design 96 television programs in basic oral communications and health education. The programs are being produced by KUAC-TV at the University of Alaska.

BASIC ORAL LANGUAGE DEVELOPMENT — The 32 "Amy and the Astros" programs provide direct teaching with Amy assisting two Astro children to learn to speak the English language and learn about Alaska.

HEALTH EDUCATION -- The 64 "Right On!" programs present health information in a lively and humorous manner.

## ALASKAN CHILDREN VIEW TV PROGRAMS VIA SATELLITE

The two series "Right On!" and "Amy and the Astros" use puppets interacting with human characters to present health information and teach children to speak the English language. Experimental telecasts to 15 communities and villages began October 7, 1974.





Children in Valdez view TV programs broadcast from Uriversity of Alaska via satellite





Television Broadcasts Begun

Project Begun

#### Career Education Program

Career education is a broad new concept which emphasizes the need for education to deal with all life careers — worker, learner, family member and citizen.

Experience-Based Career Education (EBCE) i, one model for providing career education. It uses businesses and community agencies as learning sites in an alternative program for high school juniors and seniors. EBCE provides an individualized approach for students to learn life skills, basic skills and career development.

EXPERIENCE-BASED CAREER EDUCATION (EBCE) — Based on development and trial of the model, "user guidelines" are being prepared on the topics of governance, management, instructional system, basic skills, life skills, career development, guidance, employer/community utilization and product development and dissemination.

Eleven sites have been selected in the Northwest for replication and further testing of EBCE materials and procedures.





# 11 DISTRICTS PLAN TRIAL OF EXPERIENCE-BASED CAREER EDUCATION

Development of the EBCE model is in its third year at Tigard, Oregon, where 59 juniors and seniors currently are enrolled in the pilot project.

Evaluation of the total model at five additional sites and specific parts of the model at six sites is being planned and will begin in the fall of 1975.





Juniors and seniors at Tigard, Oregon, in Experience-Based Career Education Program



Replication Sites Selected

EBCE Exploratory Test Begun

EBCE Model Designed

Feasibility Studies Begun

196

1970

161

# Area Manpower Institute for Development of Staff

An increase in manpower training programs throughout the nation has been accompanied by an increased need for skilled instructors, counselors and administrators.

Western AMIDS provides training and assistance for staff members of local manpower programs in 11 states and territories. Assistance typically concentrates on capabilities for identifying, analyzing and solving learning problems of trainess outside the cultural mainstream.

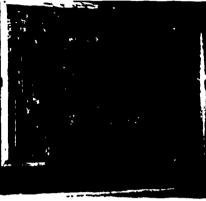
Staff development services are concentrated on the following areas

- Human and cultural awareness
- Instructional methods
- Curriculum development and adaptation
- Guidance and counseling
- Related and basic education
- English as a second language
- Manpower planning and administration
- Interagency cooperation and community support services

# 2,963 MANPOWER PERSONNEL BENEFIT FROM 277 TRAINING, ASSISTANCE ACTIVITIES

A total of 277 workshops and other assistance activities were conducted during 1974 for local manpower staff members in Alaska, American Samoa, Arizona, California, Guam, Hawaii, Idaho, Nevada, Oregon, the Trust Territory and Washington. Manpower project personnel participating in these activities totalled 2,963.





Manpower training sessions were conducted in 11 states and territories in the Pacific and Western United States







Services Expanded to 11 States, Territories

Northwest AMIDS Established



#### Manpower Counselor Training Project

Counselors who work with manpower trainees need different skills, abilities and insights than counselors who work in schools. Manpower training program counselors need to understand cultural and language differences, real experience in the labor market and frustrations typically experienced by the unemployed adult.

The Laboratory, Oregon State University and Portland State University have cooperatively developed and evaluated a model training program for the preparation of manpower counselors.

Three basic features of the training program are:

- Training takes place in the actual work setting
- Success of training is measured by actual performance, not by completion of a specific number of credit hours
- First-hand experiences in the world of work help counselors understand problems of trainees

TRAINING MATERIALS — Training materials and procedures are available in a package format including.

- 1. Training Package
- 2 Instructor's Key to Preassessment Materials
- 3. Resource Manual

DISSEMINATION WORK-SHOPS - Forty-two workshops were conducted during 1974 to introduce the training program on college and university campuses across the United States.

## 42 WORKSHOPS INTRODUCE COUNSELOR TRAINING NATIONWIDE

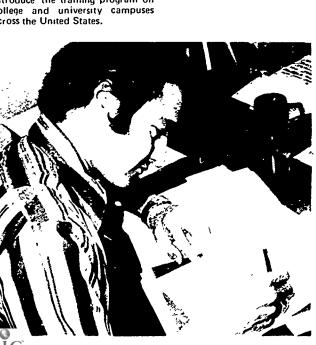
The development of a field-based, individualized, open entry and open exit training program has been completed over the past three years.

Oregon State University and Portland State University installed the program in September 1973 parallel to their regular counselor education program for a field test of the model

Training materials and procedures have been packaged and used to conduct dissemination workshops.



Typical "graduates" of the program are (top) Mike Lee, Manpower Planner, Clackamas Gounty, Oregon: (center) Gail Mejia, Manpower Counselor, Portland Community College; and (bottom) Ray Ayala, Counseling Supervisor, School for the Deaf, Vancouver, Washington





Dissemination
Workshops Conducted

Oncampus Trial of Model Begun

1973

Training Model Developed

Project Begun

.

196

89

1961

Lab Established

#### Adult Education Program

An estimated 60 million adults in the United States including one out of every two adults in Alaska, Idaho, Oregon and Washington—do not have a high school education. Effective staff development has not been readily available to adult education—administrators, teachers, counselors and para professionals. This is particularly a problem in the North west because it encompasses a large sparsely populated geographic area.

A regional consortium was formed to:

- Develop and conduct local, state and regional training programs in proven techniques of instruction in adult education
- Develop an institutional and agency capability to carry out adult education staff development

REGION X STAFF DEVELOP-MENT PROJECT Courses and workshops were conducted during 1973-74 for 1,134 state and local administrative, teaching, counseling and paraprofessional staff members in Alaska, Idaho, Oregon and Washington, Training activities included university courses, workshops and individualized technical assistance.

COUNSELOR TRAINING PROJECT Pilot testing of 67 counseling and guidance training modules was completed by 20 adult education evaluators in rural and urban settings Idaho State University and Oregon State University were instrumental in conducting these tests

An Adult Career Education Counseling and Guidance Literature Resource directory and supplement were prepared for counselors and adult educators

# 1,134 TEACHERS OF ADULTS BENEFIT FROM TRAINING, SERVICES

Staff development activities are provided in Region X by a consortium including the State Education Agencies in Alaska, Idaho, Oregon and Washington; the University of Alaska; Idaho State University; Oregon State University and Washington State University.



Community college staff members develop training modules in adult career education counseling



Workshops for adult educators are coordinated from University of Alaska, Idaho State University, Oregon State University and Washington State University campuses





1,134 Adult Educators
Participate in Training
Counseling Modules
Tested

Counseling Project Begun

1,459 Adult Educators Participate in Training

Staff Development Project Begun

696

896

67

Lab Established

# American Samoa Education Project

Over the past three years many new federally funded projects and programs have been initiated by the Government of American Samoa. This growth has increased greatly the need for training in planning and evaluation skills, as well as the need for developing a comprehensive planning and evaluation system.

DEPARTMENT OF EDUCATION -- Evaluation of nine Department of Education projects is underway
Upgrading Language Abilities Program
Sea Study Laboratory
Reading Project
Elementary Inservice Training Project
SCIS
Special Education Program
Secondary Vocational Education/
Industrial Arts
Project PACIFIC
American Samoa Bilingual/Bicul-

The Laboratory also is assisting the Department of Education in preparing a five-year plan and program goal setting.

tural Project

COMMUNITY COLLEGE –
Evaluation of six Community College projects is underway:
Vocational Education Program
Manpower Development Training
Adult Basic Education
Commercial Fisheries Development
Project
Driver Training and Safety Program
Education Professions Development
Act (EPDA)

The Laboratory also is assisting the Community College in preparation for accreditation and staff development.

# PROJECTS MEET SPECIAL NEEDS OF CHILDREN, ADULTS IN AMERICAN SAMOA

Primary Laboratory assistance to the American Samoa Department of Education and Community College is in planning, managing and evaluating educational projects, and in increasing staff and organizational effectiveness through teacher training and organization development activities.





Community College

**Projects Begun** 

Department of Education Projects Begun



# **Evaluation and Audit Projects**

The Laboratory's Audit and Evaluation Section has adopted an "evaluation by objective" approach to evaluation. This approach entails organizing the work of a project into components such as management, instruction and development. The work on each component is then organized into a series of tasks and each task is converted into a performance objective. The performance objective may entail the use of a particular procedure (i.e., process objectives) or the objective may specify an outcome (i.e., product objective). At least one evaluative question is posed for each performance objective. Subsequently, an evaluation procedure is devised to secure an answer to each question.

NWREL staff members make periodic visits to project sites to review data collection efforts and perform summary analysis of the data. Site visits result in an implementation report, an interim evaluation report or a final evaluation report summarizing project activities to date and recommending changes where appropriate.

Evaluation services have been provided to programs which focus on a variety of cultural groups, including Spanish speaking students, Native American Indians, Black students, Alaska Native students and Asian American students in both urban and rural settings

Evaluation assistance was provided for 17 projects being conducted by 15 local and intermediate school districts under Titles 1, III and VII of the Elementary and Secondary Education Act.

Evaluation services were provided to three multisite programs Project SEED, California State Department of Education (32 sites) Child Development Specialist Prolect Oregon State Department

ject, Oregon State Department of Education (6 sites)

Urban, Rural, Racial, Disadvantaged Project, Washington State Superintendent of Public Instruction (31 sites)

Evaluation assistance also was provided during the year to:

Oregon Regional Medical Program, University of Oregon Medical School

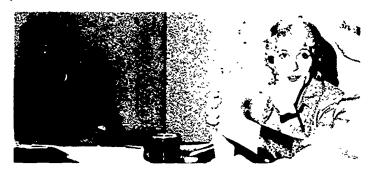
Idaho Consortium EPDA Project, University of Idaho

Metro Corrections Project, Columbia Region Association of Governments

Project to Read Project, Oregon
State Department of Education
Itional Village Training Pro-

# 78 PROJECTS BENEFIT FROM EVALUATION ASSISTANCE

The Laboratory conducted 28 project evaluations, onsite technical reviews for 35 additional projects and provided technical assistance to 15 others.





grams, Portland School District
Increasing the Understanding of
Multi-Ethnic Heritage, Center
for Urban Education, Portland
Special Education Program Planning, Alaska State-Operated
Schools





NWREL evaluation staff provides services to educational projects in (top) Gresham, Oregon; (center and right) Alaska; and (left) Pocatello, Idaho

Evaluation and Audit Section Established

1973

Lab Established

#### Assessment Projects

The need to assess the performance of both students and school personnel is increasing.

Many schools are moving toward competency based graduation requirements, resulting in the need for testing devices for the measuring of tasks in actual or simulated settings. State Education Agencies also need performance tests for statewide assessments.

Institutions of higher education have similar needs related to competency based programs for training of school personnel.

All of these institutions need access to instruments and procedures for assessing the skills and capabilities of students and school personnel. They also need planning and implementation services in collecting information about student achievement and other educational concerns.

#### Test Collection Projects:

CLEARINGHOUSE FOR AP-PLIED PERFORMANCE TESTING – The Clearinghouse was established in 1974 by the State Education Agencies in Hawaii, Oregon, Pennsylvania and Washington under a ESEA Title V grant to assist schools and agencies in locating and using appropriate testing materials and procedures.

MEASURES OF FUNCTIONAL ADULT LITERACY - Existing tests are being collected and evaluated for use by national and state Right-to-Reari, Adult Basic Education and other programs.

#### Statewide Assessment Projects:

Assistance is being provided to State Education Agencies:

ALASKA — Analysis of alternatives for test development

HAWAII — Collection and development of exercises and items for reading and math assessments

OREGON - Selection of objectives, analysis of data and reporting of results

WASHINGTON — Assessment of reading at the sixth grade level

MULTILINGUAL ASSESS-MENT -- Instruments which are culturally and Inguistically "bias free" are being refined and tested at 10 bilingual and bicultural projects across the United States.

## STATE AGENCIES, LOCAL DISTRICTS RECEIVE ASSISTANCE IN ASSESSING STUDENT PERFORMANCE

Activities are designed to help school districts, State Education Agencies, federal agencies and institutions of higher education meet their needs in planning assessment work and in collecting reliable information for making important decisions.







Assessment Unit Established

Lab Established

Statewide assessment work by State Education Agencies in Alaska, Hawaii, Oregon and washington focuses on reading and mathematics



# Experimental Schools Evaluation Program

The Experimental Schools Program at Franklin Pierce School District near Tacoma is in its fourth year. The program represents a large scale, multi-year effort to bring a concentration of new educational materials and methods to one site.

A major element of the program — evaluation and documentation of the results — was contracted to the Laboratory. The result of Laboratory analyses will be to:

- Measure achievement, attitudes and other student objectives
- Identify and document individual successful and unsuccessful practices
- Describe and analyze relevant forces which influence the program
- Systematically document the total program
- Identify successful evaluation and documentation

Laboratory studies and documentation activities at Franklin Pierce School District during 1974 resulted in the following reports.

INSTRUCTIONAL ANALYSES

"Social Perspectives of Individualized Learning"

ORGANIZATIONAL ANAL-YSES – "The Fiscal Environment of the Franklin Pierce Experimental Schools Project"

"School District - Franklin Pierce Education Association Relationships"

"Project Governance A Three-Year Review"

"Perceptions of Institutional Character"

COMMUNITY ANALYSES – "Survey of the Parents of the Frank-In Pierce School District"

# EVALUATION LOOKS AT HOW AND WHY RESULTS ARE BEING ACHIEVED

Laboratory evaluation work focuses on three areas: Instructional Analyses Organizational Analyses Community Analyses





NWREL evaluators work with Experimental Schools Program staff at Franklin Pierce School District in Washington



1967

Lab Established



ERIC

Full Text Provided by ERIC

3 53

Program Begun; Tacoma Office Established

# Other Technical Assistance Projects

Many educational needs and problems are unique to a particular institution or setting.

To meet this need, state and local institutions may need to develop entirely new procedures or materials. In some cases the need may only be to locate and adapt existing ones.

The Laboratory provides special assistance to meet these specific needs upon request.

FEDERAL AGENCIES - Technical assistance and training was provided to strengthen the monitoring of programs and projects by Region X of the Department of Health, Education and Welfare.

STATE AGENCIES — Alaska, California, Montana, Oregon and Washington State Education Agencies were assisted in the areas of management, planning, evaluation and dissemination.

HIGHER EDUCATION – Special assistance was provided in such areas as planning, evaluation and communications.

SCHOOL DISTRICTS – Assistance to local and intermediate school districts varied from feasibility studies to training in cultural awareness.

OTHER ORGANIZATIONS -Assistance is provided to other organizations conducting educational programs.

INFORMATION SEARCHES — The Laboratory's Information Center uses a computerized information retrieval system called DIA-LOG to quickly search more than 200,000 magazine articles, research studies, books, instructional materials and state of the art papers comprising 20 different information bases, including ERIC (the Educational Resources Information Center). Searches were conducted during the year to locate information on such topics as:

Record keeping in Elementary School Mathematics

Special Education in Rural Areas Culture Free Tests

Success in Learning and Self-Image Active Programs in Rehabilitation of Juvenile Delinquents

Day Care Affiliated with Public Schools

Career Education for the Elementary Level

Governance and Finance in Community and Junior Colleges

Teacher Militancy and Bureaucratic Change

Self-Instructional Materials for Business Correspondence

Family Influences on Early Childhood Development

Women and Minorities in Educational Administration

# 28 FEDERAL, STATE, LOCAL ORGANIZATIONS RECEIVE HELP ON SPECIAL NEEDS

Special assistance to meet specific needs and problems of federal, state and local agencies includes training sessions, design of management and monitoring plans, feasibility studies, planning, testing and design of materials.

One hundred and fifteen searches were conducted for school districts, colleges and other agencies to locate reports, documents and materials which helped answer specific questions and provided information for planning and implementing local educational programs.



Workshop for Idaho school administrators



Study of instructional program at Seattle's Immaculate High School



Alaska State Operated School System plans special education activities



Montana educators use the ERIC (Educational Resources Information Center) system



# **Summary of Activities**

Program/Project	Purpose	Funding Source		
Improving Teaching Competencies Program	Develop interrelated instructional systems to provide training for school personnel in process skills which promote student self-understanding, self-sufficiency and interdependence	National Institute of Education		
Field Test and Dissemination Workshop	Utilize instructional systems to provide instruction for school	Wellington Department of Education, New Zealand		
	personnel	University of South Carolina		
		Fairfax County Public Schools, Alexandria, Virginia		
		Idaho State University		
		Oregon State Department of Education		
		Queensland Department of Education, Australia		
		Detroit School District (Michigan		
		Spokane School District (Washington)		
		Montgomery County Public Schools, Maryland		
Rural Education Program	Provide products and procedures for itral people to change both their school systems and their communities to support more appropriate and effective learning experiences to enable youth to gain control of their futures	National Institute of Education		
RFD in Utah	Field test materials and procedures in the Rural Futures Development	San Juan County School District (Utah)		
	Strategy	Utah State Board of Education		
Intercultural Reading and Language Development Program	Develop systems to increase reading and language abilities of children from different cultural backgrounds while simultaneously bolstering ride in their culture			
Alaskan Readers	Complete development and eval- uate materials for grades 1-3	National Institute of Education		
Northwest Indian Readers	Develop materials in cooperation with 28 tribes in Idaho, Montana, Oregon and Washington	National Institute of Education		
Guam Readers	Develop materials for grades 1-3	Guam Department of Education		
Chamorro Language and Culture Course	Develop a course for junior high school	Guam Department of Education		
Hawaii Special Education Project	Develop career and vocational ed- ucational materials for trainable mentally handicapped children	Hawaii State Department of Education		
Computer Technology Program	Develop computer based materials for training school personnel for student use	National Institute of Education		
Environmental Education Project	Develop computer based curric- ulum units on environmental ed- ucation	U. S. Office of Education Division of Technology and Environment Education		
Project PLANIT				
Programming Language for Interactive Teaching Project	Complete debugging of the PLAN- !T language for computer assisted instruction and package it for transport	National Science Foundation		
Proficiency Maintenance Instructional Module Project	Install the PLANIT language on the Litton-built TACFIRE computer	U.S. Army Research Institute		
Alaska Telecommunications Project	Design educational television pro- grams for telecast via satellite to children in Alaskan villages	Alaska Office of Telecommunications		



Program/Project	Purpose	Funding Source
Career Education Program	Continue development and eval- uation of the Experience-Based Ca- reer Education Model	National Institute of Education
Area Manpower Institute for Development of Staff	Provide staff development services to the western states and Pacific territories	U.S. Office of Education Division of Manpower Development and Training
Manpower Counselor Training Project	Conduct dissemination activities re- lated to the competency based manpower and community college counselor training system	Oregon State Department of Education/USOE Division of Manpower Development and Training
Adult Education Program		
Region X Project for the Training of Teachers of Adults	Continue the four-state staff development	U.S. Office of Education Division of Adult Education
Adult Career Education Counseling Project	Continue the development and eval- uation of competency based train- ing for paraprofessionals, teachers and administrators in career educa- tion counseling for adults	U S. Office of Education Division of Adult Education
Samoa/Guam/Trust Territory Education Projects		
Samoa Education Project	Provide assistance to the Department of Education in planning and evaluation	American Samoa Department of Education
	Provide assistance to the commu- nity college in planning and eval- uation	American Samoa Community College
Community Development Training Program	Conduct a needs assessment and training of community development personnel	Guam Department of Education
Human Relations Workshop	Conduct training for Government employees under the Intergovern- mental Personnel Act	Guam Training and Development Division
Project PACIFIC	Continue to evaluate the pilot installation of Hawaii English Project materials in the three U.S. Pacific territories	American Samoa Department of Education
		Guam Department of Education Trust Territory Department of Education
Bilingual Education Projects	Continue to evaluate the project on Rota	Trust Territory Department of Education
	Continue to evaluate the project in Guam	Guam Department of Education
Budgeting and Contract Monitoring Plan	Design a place for special education and train staff	Trust Territory Department of Education
Special Education Manage- ment Monitoring Plan	Develop a management matrix and conduct staff training	Guam Department of Education
Evaluation and Audit Projects	Evaluate Title I, III and VII projects	Albany Union School District (Oregon)
		Anchorage Borough School District (Alaska)
		Bend School District (Oregon)
		Central Point School District (Oregon)
		Corvallis School District (Oregon)
		Grants Pass School District (Oregon)
		Gresham Union High School (Oregon)
		Highline School District (Washington)
		Jackson County Intermediate Education District (Oregon)
		Josephine County School District (Oregon)
		Lake Oswego School District (Oregon)
9	21	Marion Intermediate Education District (Oregon)



Program/Project	Purpose	Funding Source
		North Clackamas School District (Oregon)
		Pleasant Hill School District (Oregon)
		Pocatello School District (Idaho)
		Portland School District (Oregon
		Reynolds School District (Oregon
		Tigard School District (Oregon)
		Toppenish School District (Washington)
,		Union Albany School District (Oregon)
		Union County Intermediate Education District (Oregon)
	<i>⇒</i>	Vancouver School District (Washington)
		Washington County Intermediate Education District (Oregon)
Oregon Regional Medical Program	Continue to provide evaluation assistance	University of Oregon Medical School
Project SEED	Continue to evaluate the special ele- mentary education program for dis- advantaged in four California cities	California State Department of Education
Idaho Consortium EPDA Project	Evaluate outcomes of leadership training activities	University of Idaho
Urban, Rural, Racial Dis- advantaged Education Project	Evaluate projects at 30 sites in the state of Washington	Washington State Superintendent of Public Instruction
Metro Correction Project	Continue to evaluate the project in the Portland area	Columbia Region Association of Governments
Child Development Specialist Project	Evaluate six pilot projects in Oregon	Oregon State Department of Education
Right to Read Project	Evaluate training provided for staff members of five projects in Oregon	Oregon State Department of Education
Vocational Training Program	Assist in evaluating programs at Vo- cational Village	Portland School District
Increasing the Understanding of Multi-Ethnic Heritage	Evaluate the project	Center for Urban Education, Portland
Special Education Program	Assist in identifying needs and potential delivery system	Alaska State-Operated Schools
Warm Springs Internship Project	Evaluate the project	Confederated Tribes of Warm Springs, Oregon
Assessment Projects		
Clearinghouse for Applied Performance Testing	Provide state and local education agencies access to testing materials and procedures	Hawaii State Department of Education (for a consortium including the Oregon, Pennsylvania and Washington State Education Agencies)
Measures of Adult Literacy	Collect and evaluate measures of functional adult literacy	USOE Office of Planning, Budget and Evaluation
Statewide Assessments	Analyze data and prepare reports on reading assessment	Oregon State Department of Education
	Assist in preparing reading and math objectives	Hawaii State Department of Education
	Assist in assessment of reading objectives	Washington State Superintendent of Public Instruction
	Prepare an analysis of four bases for test development	Alaska State Department of Education
Evaluation Center Development	Assist in designing a center for training, research and service	University of British Columbia
Alternative Teacher Education Programs	Evaluate nine alternative teacher education programs	University of British Columbia
Experimental Schools Evaluation Program	Evaluate and document the Experi- mental Schools Program at Franklin Pierce School District	National Institute of Education
Other Technical		
Assistance Projects	Davidon management instruments	Not and Institute of



Six Functions of Schooling

Program/Project	Purpose	Funding Source
Strengthening Program and Project Monitoring	Provide technical assistance to the regional office staff	U.S. Department of Health, Education and Welfare, Region X
Multi-Cultural Awareness Workshop	Conduct training for district staff	Anchorage Borough School District
Career Education Project	Design a cost system for the project	Tri-District Co-Op, Mossyrock, Washington
Management Workshop	Conduct training for Alaska school administrators	Alaska State Department of Education
Feasibility Study	Develop and test new needs assess- ment procedures in the area of child care services	Mid-Willamette 4-C Council, Salem, Oregon
Copyright Procedures	Provide technical assistance	Sheldon Jackson College, Sitka
ESEA Title IV Planning	Assist in developing a planning matrix for Integrated Grants Management	Washington State Superintenden of Public Instruction
Vocational Skills Center	Conduct a study of the feasibility of a training center operated co- operatively by six school districts	Aberdeen School District (Washington)
Oregon Child FIND Project	Assist in designing programs for handicapped children	Regional Resource Center, University of Oregon
Problem Solving Consultation	Assist in planning processes in in- dividual schools	Portland School District
Communications Assistance	Assist in preparing a 5-year report of activities for improved education of the handicapped	Regional Resource Center, University of Oregon
Human Resource File Development Project	Assist in developing a regional re- source file of people in special ed- ucation	Regional Resource Center, University of Oregon
Graduation Requirement Report Analysis	Assist in developing competency based high school graduation re- quirements	Lincoln County School District (Oregon)
Annual Testing Program , Analysis	Assist in analyzing test data derived from the district's annual testing program	Josephine County School District (Oregon)
Evaluation Competencies Planning Project	Assist in implementing a systematic plan for producing evaluation competencies	Oregon State Department of Education
Developing Institution Project	Provide assistance in planning and evaluation	Concordia College, Portland
Comprehensive Plan for Postsecondary Education	Assist in development of a state- wide plan for Oregon	Oregon Educational Coordinat- ing Council
Quality Basic Education Project	Prepare informational materials for community meetings	Montana State Superintendent of Public Instruction
Western Region Interstate Planning Project	Provide technical assistance to the 8-state project	Oregon State Department of Education
Administrator's Workshop	Provide staff development for Area III administrators in decision making processes	Portland School District
Attendance Unit Pattern Study	Determine the feasibility of mod- ifying attendance units	Pendleton School District (Oregun)
Teachers' Workshop	Provide staff development for teachers at Atkinson and Llewellyn elementary schools	Portland School District
Consultation Assistance	Provide assistance to the Title III project	Billings School District (Montana)
AERA Evaluation Training Institute	Assist in conducting training for 30 state agency personnel	California, Oregon and Wash- Ington State Education Agencies
Inservice Education Program	Conduct training for 85 staff mem- bers in communications and prob- lem solving	Milton-Freewater School District (Oregon)
Gifted and Talented Educational Needs Planning	Organize two planning sessions for representatives of national organiza- tions	Ventura County Superintendent of Schools (California)
Instructional System Analysis	Develop a study of instruction and curriculum at Immaculate High School	Central Area Pastoral Ministry Study Steering Committee, Seattle
Manzanita Individualized Curriculum Project	Assist in production of dissemination materials	Josephine County School District (Oregon)
Helping Eliminate Early Learning Disabilities	Assist in production of dissemina- tion materials for the project at Central Point School District	South Umpqua School District (Oregon)
€ ) abs	(Oregon)	



Program/Project	Purpose	Funding Source
ESA Technical Assistance	Assist the ESA Advisory Council in Planning and setting priorities	National Advisory Council for for the Emergency School Act
Vocational Skills Center	Assist in planning a multidistrict center in the Aberdeen area	Washington Coordinating Council of Occupational Education
Instructional Systems Analysis	Develop a study of instructional systems and content at Immaculate High School	Central Area Pastoral Study Steering Committee, Seattle
Experimental Schools Project	Provide planning assistance	Berkeley Unified School District (California)
Decision Making Workshop	Conduct training for the Washing- ton State Department of Social and Health Services	Western Washington State College
Organizational Climate Variables	Assist in a study of the organiza- tional climate of the district	Beaverton School District (Oregon)
High School Feasibility Study	Conduct a feasibility study for establishing a new high school	Sisters School District (Oregon)



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# Resources

NWREL INCOME BY PROGRAMS						
	F'	Y 72	FY	73	FY	74
Improving Teaching Competencies Program	\$ 763,800	17.2%	\$ 831,130	16.6%	\$1,157,611	18.8%
Rural Education Program	601,300	13.6%	808,704	16.1%	1,289,413	20.9%
Intercultural Reading and Language						
Development Program	547,100	12.3%	657,807	13.1%	557,236	9.0%
Computer Technology Program	210,700	4.8%	198,333	4.0%	309,030	5.0%
Project PLANIT			59.409	1.2%	65,269	1.1%
Alaska Telecommunications Project					183,578	3.0%
Career Education Program	691,200	15.6%	847,817	16.9%	830,090	13.5%
Area Manpower Institute dor Development						
of Staff	384,500	8.7%	361,314	7.2%	541,164	8.8%
Manpower Counselor Training Project	134,300	3.0%	159,679	3.2%	44,924	0.7%
Adult Education Program	71,200	1.6%	176,712	3.5%	277,655	4.5%
Samoa/Guam/Trust Territory Education						
Projects	318,200	7.2%	233,542	4.7%	98,182	1.6%
Evaluation and Audit Projects	84,400	1.9%	136,334	2.7%	216,376	3.5%
Assessment Projects					122,557	2.0%
Experimental Schools Evaluation Program	204,900	4.6%	257,950	5.2%	305,101	4.9%
Other Projects .	350,400	7.8%	240,293	4.8%	143,890	2.3%
Miscellaneous Revenues	74,600	1.7%	40,537	0.8%	29,710	0.4%
Totals	\$4,436,600	100.0%	\$5,009,561	100.0%	\$6,171,786	100.0%
NWREL INCOME BY FUNDING AGE	NCIES					
	F'	Y 72	F'.	73	F)	74
National Institute of Education			\$3,432,258	68.5%	\$4,240,572	68.7%
U.S. Office of Education	\$2,902,300	65.4%	204,295	4.1%	755,806	12.2%
Other Federal Agencies			64,629	1.3%	204,153	3.3%
State/Territorial Education Agencies	1,143,600	25.8%	1,083,717	21.6%	726,193	11.8%
Colleges/Universities	67,000	1.5%	24,300	0.5%	24,347	0.4%
School Districts	160,700	3.6%	125,994	2.5%	148,036	2.4%
Businesses and Others	163,000	3.7%	74,368	1.5%	72,679	1.2%
Totals	\$4,436,600	100.0%	\$5,009,561	100.0%	\$6,171,786	100.0%



# **Member Institutions**

Laboratory members include institutions and agencies in the Northwest region and the Pacific area, New members accepted during 1974 were:
Community College of American Samoa
Firth (Idaho) School District Melstone (Montana) School District

In addition to electing members of the governing board, member institutions are field sites for testing educational materials and procedures. Personnel from these institutions serve on program advisory committees and participate in the design, development and dissemination of new products.

	Alaska	American Samoa	Guam	Hawaii	Idaho	Montana	Oregon	Washington	Totals
State and Territorial Departments of Education	1	,	1	1	1	1	í	1	8
Public School Districts	27			7	81	79	115	157	466
Private/Parochial Schools	7			1	3	4	7	8	30
Intermediate/County School Districts				· 		8	18	12	38
Colleges/Universities	6	1	1		5	9	27	30	79
Professional Associations	7				6	2	59	55	129
Community/Cultural Agencies	1					2	5	4	12
Business/Industry						1	4	7	12
Others	3				4	3	29	9	48
TOTALS	52	2	2	9	100	109	265	283	822



# **Board of Directors**

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Woodburn (Oregon) School District

Mere Betham Director of Education

Government of American Samoa

George Brain (chairman) Dean of Education

Washington State University

Frank Brouillet Washington State Superintendent of

**Public Instruction** 

Maurice Claeys Vice President

Rainier National Bank Seattle, Washington

Dolores Colburg Montana State Superintendent of

**Public Instruction** 

Verne Duncan Oregon State Superintendent of

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Rulon Ellis Superintendent

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Marshall Lind Alaska Commissioner of Education

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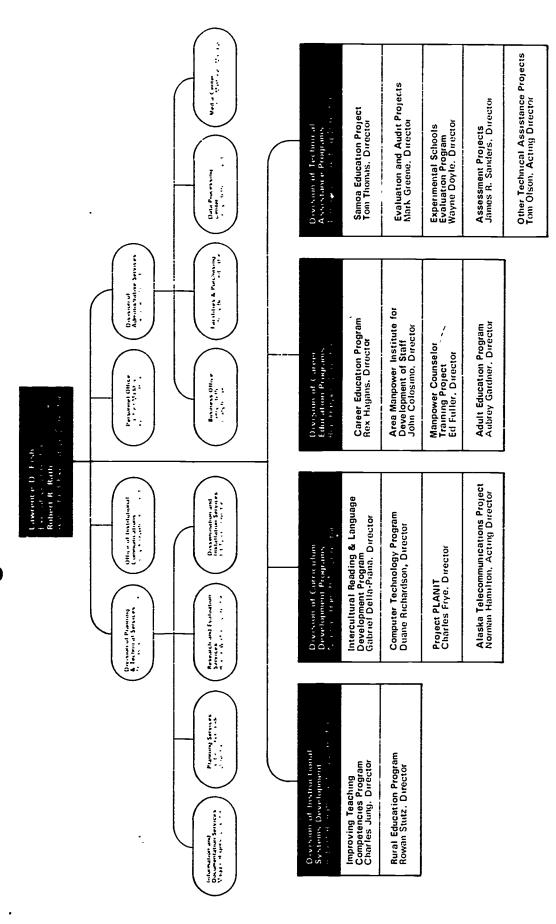
Robert Woodroof Superintendent

Edmonds (Washington) School District





# Organizational Chart



#### Headquarters

710 S.W. Second Avenue, Portland, Oregon 97204 (503) 224-3650

#### **Field Offices**

American Samoa - Department of Education, Pago Pago, American Samoa 96799 Washington - 313 South 129th Street, Tacoma, Washington 98444 (206) 531.4254

**April 1975** 

