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A REVIEW OF THE  
OBJECTIVES, GENERAL PLAN, AND AGENDA FOR  
A POPULATION/ENVIRONMENTAL EDUCATION WORKSHOP

(Alexandria, Egypt, August 17-28, 1980)

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# C O N T E N T S

## Page

I. INTRODUCTION	
Itinerary	1
Host Country and U.S. Officials	1
II. OBJECTIVES AND GENERAL PLAN	
1. USAID/Cairo Telegrams	3
2. Goals for the Workshop	3
3. Background of American Consultants	4
4. Preparation for the Workshop	4
III. OBJECTIVES AND AGENDA FOR THE WORKSHOP	
Objectives	5
Workshop Agenda	5
A. Participants	6
1. Egyptian Professional Staff	6
2. American Consultants	6
B. Schedule	7
IV. EVALUATION	
Pretest and Posttest Content and Results	13
Evaluation of Lesson Plans, Instructional Materials, and Presentations	14
V. CONCLUSIONS AND RECOMMENDATIONS	
Conclusions	16
Recommendations	16
APPENDICES	
Appendix A: Resources Used in the Workshop	
Appendix B: Overhead Transparencies Used in Presentation on the Effects of Population Factors on Social and Economic Development in Egypt	

## I. INTRODUCTION

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The Ministry of Education (MOE) of Egypt requested the services of American consultants to assist in the planning and implementation of a summer workshop on population and environmental education to be held at the Institute for Training and Research in Family Planning, in Alexandria, Egypt. Dr. Mary Turner Lane went to Cairo on April 24 for initial planning with the MOE staff. The consultancy lasted until May 6. For the workshop in August, Dr. Lane was joined by Dr. Ralph Wileman and Dr. Thomas Price, the American consultants invited by USAID. The Egyptian professional staff was headed by Mr. Sayed el Sheikh, director of Population and Environmental Education, MOE. The program was funded by USAID/Cairo.

### Itinerary

The consultant's itinerary was as follows:

August 11, 12	Travel to Cairo (Lane)
August 11-13	Travel to Cairo (Wileman)
August 10-12	Travel to Cairo (Price)
August 13-16	Planning for workshop with American consultants and Egyptian professional staff in Cairo
August 17-28	Workshop in Alexandria
August 28-29	Return to Cairo and complete USAID contacts
August 30, 31	Return to United States

### Host Country and U.S. Officials

The following host country and U.S. officials were contacted:

- Dr. Shafik Atta, Undersecretary, Preparatory and Secondary Education
- Mr. Sayed el Sheikh, Director, Population and Environmental Education Office

- Mr. Mohamed Gamil, Supervisor, Population and Environmental Education
- Dr. Helmy El Bermawy, Ministry of Health
- Mrs. Salha Awad, Director, Institute for Training and Research in Family Planning, Alexandria
- Dr. Thomas Reese, Population Office, USAID
- Ms. Laila Stino, Research Analyst, USAID
- Dr. Emily Leonard, Project Officer, Urban Health Project, USAID

## II. OBJECTIVES AND GENERAL PLAN

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The substance of this Workshop on Population and Environmental Education was determined in the following way:

### 1. USAID/Cairo Telegrams

The request for the 1980 Workshop on Population and Environmental Education from the MOE and USAID was for funds to provide a workshop which would:

- a. give an orientation in the fields of population and environmental education to teachers throughout Egypt in order to prepare them to introduce modern methods and materials in these subject areas in the school systems; and
- b. assist Egyptian teachers to run similar local workshops at the governate level.

The workshop was the culmination of one year of study by teachers in a correspondence course offered by the MOE in the past academic year.

### 2. Goals for the Workshop

In the planning mission in Cairo, completed by Dr. Lane and MOE officials in May, these goals were identified for the workshop:

- a. orient participants to a basic cognitive and affective structure of population and environmental education;
- b. give participants an understanding of a problem-solving approach to teaching population and environmental education; and
- c. enable participants to conceptualize learning activities, design instructional materials, and produce visual aids for use in the classroom.

### 3. Background of American Consultants

The MOE requested that the consultants have a broad background of training and experience in curriculum development, teaching strategies, and instructional materials design and particular knowledge of the application of these skills to population education. Dr. Mary Turner Lane is a professor of Social Studies and Population Education at the University of North Carolina, Chapel Hill. She directed the Population and Environmental Education Workshop in Alexandria in 1978. Dr. Ralph Wileman, a professor of Instructional Design and Population Education at the University of North Carolina, Chapel Hill, participated in the Population and Environmental Education Workshop at Alexandria in 1977. Dr. Thomas Price is a professor of Science and Environmental Education at Humboldt State University, Arcadia, California.

### 4. Preparation for the Workshop

In addition to the planning mission Dr. Lane held in Cairo in May, Drs. Lane and Wileman were asked to spend one week in North Carolina preparing for the workshop. They were to:

- a. preview films and film strips to select and bring to the workshop;
- b. prepare transparencies to use on the overhead projector;
- c. preview instructional design texts; and
- d. prepare model instructional materials.

A report on these materials, as they were prepared and used, will be found in the appendix of this report.

### III. OBJECTIVES AND AGENDA FOR THE WORKSHOP

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#### Objectives

The workshop focused on five major objectives:

1. Objective: To orient participants to a basic structure for population and environmental education. (Days 1, 2 and 3)
2. Objective: To give participants an orientation to using a problem-solving approach to teaching population and environmental education. (Days 4 and 5)
3. Objective: To help participants conceptualize learning activities related to population and environmental education. (Days 6 and 7)
4. Objective: To help participants design and produce supporting visual aids to use as learning activities in their teaching. (Day 8)
5. Objective: To permit participants to demonstrate problem-solving teaching methods using their learning activities and supporting visual aids. (Day 9)

(The days in parentheses indicate the approximate time spent on each objective.)

The instructional strategies used to accomplish the objectives are detailed in the Agenda.

#### Workshop Agenda

Population and Environmental Education Workshop  
August 19-28, Alexandria, Egypt

"Designing Instruction for Population and Environmental Education  
in Egypt"

A. Participants

1. Egyptian Professional Staff

- Dr. Muhammad Helmy El Bermawy, Director General, Ministry of Health
- Mr. Shafik Atta, Undersecretary for Preparatory and Secondary Education
- Dr. Zahia Marzouk, President, Institute of Training and Research for Family Planning, Alexandria
- Mr. Ahmad Abdul Fattah, Director, Population and Development Project, Central Organization for Family Planning
- Mr. Sayed El Sheikh, Senior Supervisor, Population and Environmental Education Office, MOE
- Mr. Muhammad Gamil, Head, Population and Environmental Education Section
- Mrs. Salha Awad, Director, Institute of Training and Research in Family Planning
- Mr. Sameer Al Hagrassy, Director of Training, Central Organization of Family Planning
- Mr. Abd El Sattar Hammam, Senior Supervisor, Translation Section, Public Relations Department, MOE
- Mr. Gamal Noweir, Prime Researcher, National Center for Education Research, MOE

2. American Consultants

- Dr. Mary Turner Lane, Social Studies Education, University of North Carolina, Chapel Hill, North Carolina
- Dr. Ralph Wileman, Professor of Instructional Media, University of North Carolina, Chapel Hill, North Carolina
- Dr. Thomas D. Price, Professor of Environmental Education, Humboldt State University, Arcadia, California

B. Schedule

August 19 - Tuesday

9:00 - 10:30

Opening Session

1. Mrs. Salha Awad
2. Mr. Shafik Atta
3. Dr. Mary Lane
4. Dr. Muhammed Helmy El Bermawy
5. Dr. Zahia Marzouk

11:00 - 12:30

Lecture: "Development of Human Resources"  
Mr. Sameer Al Hagrassy

1:00 - 2:00

Lecture: "National Policy for Population and Family Planning  
in Egypt"  
Dr. El Bermawy

5:00 - 6:00

Lecture: "Measures Taken by Ministry of Education in Field  
of Population Education"  
Dr. Safik Atta

6:00 - 7:00

Lecture: "Population Education: Its Concepts and Objectives"  
Mr. El Sheikh and Mr. Gamil Sheikh

Pretest: Population and Environmental Education

August 20 - Wednesday

9:00 - 10:00

Slide-Sound Presentation:  
"Relationships between Population and Development"  
Dr. Wileman

11:00 - 12:30

Illustrated Lecture:  
"Relationships between Population and Development in Egypt"  
Dr. Wileman

1:00 - 2:00

Overhead Transparency Presentation:  
"General Structure of Population Education"  
Dr. Lane

5:00 - 6:00

Lecture: "Role of Ministry of Health in Facing Population  
Education"  
Dr. El Bermawy

6:00 - 7:00

Lecture: "Domains of Population Education in Egypt"  
Mr. El Sheikh, Mr. Gamil

August 21 - Thursday

9:00 - 11:00

Examination for participants on correspondence lectures given  
in past school year

11:00 - 1:30

Lecture: "What is Environmental Education and How Does It  
Relate to Population and Development?"  
Dr. Price

August 22 - Friday

Field trip for students and instructors

August 23 - Saturday

9:00 - 10:30

Lecture-Discussion: "Goals, Concepts, and Generalizations  
in Environmental Education"  
Dr. Price

10:30 - 12:30

Group Work and Group Reports:  
"Developing Concepts and Generalizations in Environmental  
Education"  
Dr. Price

12:30 - 2:00

Lecture-Discussion: "Major Guiding Ideas in Environmental  
Education"  
"Steps in Problem-Solving"

August 24 - Sunday

9:00 - 11:00

Lecture-Demonstration-Discussion:  
"Developing Instructional Materials to Use in a Problem-Solving Approach"  
Dr. Wileman

11:00 - 12:30

Lecture-Demonstration-Discussion:  
"Collecting and Displaying Data in Problem-Solving"  
Dr. Lane  
  
"Using Film in Presenting Data and Stimulating Problem-Solving"

12:30 - 2:00

Lecture-Demonstration-Discussion:  
"An Open-Access Environmental Education Curriculum"  
Dr. Price

Examination of group and individual activities that promote the objectives of an environmental education program for elementary and intermediate schools

5:00 - 7:00

Evaluation of Student Research Projects,  
Mr. Gamil and Mr. Sheikh:  
"Population Growth in Local Communities Related to Social and Economic Development"  
  
"Idea Lesson in Population Using Concepts from Population Education"

August 25 - Monday

9:00 - 10:00

Lecture: "Preparing Instructional Materials for Use in  
Population and Environmental Education"  
Dr. Wileman

10:00 - 2:00

Group Work: Groups, established along subject matter lines,  
began planning lessons and designing instructional  
materials for use in teaching concepts in popula-  
tion education by problem-solving methods. All  
consultants were involved.

5:00 - 7:00

Lecture: "Developing Curriculum in Population Education"  
Mr. Noweir

August 26 - Tuesday

9:00 - 10:30

Review and demonstration of the process of planning a lesson  
and designing instructional materials. One group demonstrated  
its lesson, which was critiqued by consultants.

10:30 - 12:30

Group Work Session:  
Continued planning, design, and construction of lessons  
and instructional materials. All consultants were involved.

12:30 - 1:00

Posttest: Population and Environmental Education  
Mr. Gamil and Mr. Sheikh

August 27 - Wednesday

9:00 - 9:30

Instruction and Criteria for Group Presentations and  
Evaluation: Dr. Wileman

The presentations included (a) Plan of the Lesson,  
(b) Relevance of the Lesson to Population and Environmental  
Education, (c) Problem-Solving Method, and (d) Instructional  
Aids Constructed. All consultants were involved.

2:30 - 3:00

Discussion

7:30 - 10:00

Final Session

Presentation of Certificates of Participation

August 28 - Thursday

9:00 - 1:00

Final Evaluation and Closing Activities

#### IV. EVALUATION

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### Pretest and Posttest Content and Results

The pretest and posttest were administered and scored by Mr. Gamil and Mr. Sheikh. Pretest and posttest data were presented as percentages of participants who successfully answered questions in each section.

The following areas of content were covered in the tests:

1. Aspects of National Development Affected by Population

Pre = 42%  
Post = 83%

2. Domains of Population in Egyptian Curriculum for Preparatory and Secondary Education

Pre = 2%  
Post = 83%

3. Steps in Problem-Solving Method of Teaching

Pre = 35%  
Post = 90%

4. Aspects of Physical Environment Related to Population

Pre = 10%  
Post = 81%

5. Types of Instructional Materials

Pre = 80%  
Post = 85%

6. Use of Structure for Population Education in Design of Instructional Materials and Procedures

Pre = 0%  
Post = 71%

7. Characteristics of Good Visual Aids

Pre = 78%  
Post = 98%

Evaluation of Lesson Plans, Instructional Materials, and Presentations-

Each group worked together for two days to prepare lesson plans and instructional materials on the final day. The presentations were evaluated on the basis of the following criteria:

1. Did the lesson plan include:
  - a. Teaching concepts in population and environmental education;
  - b. Instructional objectives;
  - c. Instructional materials;
  - d. Teaching procedures; and
  - e. Evaluation procedure and instrument?
2. Did the lesson integrate population and environmental concepts with the particular subject matter orientation of the teachers?
3. Did teaching procedures include steps in the problem-solving process?

4. Were effective instructional aids designed, constructed, and used?

After each presentation, a brief critique was given by the three American consultants. Positive and negative comments on the four major criteria were presented. The purpose of this session was more to provide feedback to participants than to quantify their success. It was felt by the consultants and their Egyptian counterparts that the results were generally very positive.

## V. CONCLUSIONS AND RECOMMENDATIONS

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### Conclusions

1. The planning session that Dr. Mary Turner Lane held with the MOE officials in May contributed significantly to achieving the goals of the workshop as well as aiding MOE officials in understanding the value of planning skills. Planning several months ahead rather than the week before the workshop allowed for a more exhaustive search for resources to use in the workshop and provided time to develop unique resources appropriate for Egyptian educators. The planning mission also contributed to Professor Lane's knowledge (which is needed as a base for designing an appropriate workshop) of the MOE and Egyptian educational system.
2. It is the opinion of the MOE and of the American consultants that the use of a variety of instructional resources facilitated learning and stimulated the interest of the participants.
3. Evidence from formal and informal evaluations by the American consultants and MOE staff indicated highly successful achievement of workshop objectives.
4. The success of this workshop is in part attributable to the fact that the MOE has moved ahead significantly in the development of curriculum for and instruction in population and environmental education.
5. The facilities provided at Alexandria, and under the supervision of Mrs. Salha Awad, are excellent for instructors and students.
6. Translation work for the workshop was a key factor in the success of the workshop.

### Recommendations

1. When workshops are held in the Family Planning and Research Institute, the participants should number a maximum of 40, not 60 to 70, as was the case this year.

2. The MOE should consider seriously including questions on population, environment, and development of Egypt at every level of the national examination to help ensure that these ideas will be taught in the schools.
3. Continued concern by the MOE about the lack of instructional materials for teacher-training and public school use should be addressed.
4. When visual aids include words, the words should be written in Arabic if possible.
5. The number of American staff for this workshop should continue to be limited to a minimum of three consultants.

APPENDICES

Appendix A  
RESOURCES USED IN THE WORKSHOP

## Appendix A

### RESOURCES USED IN THE WORKSHOP

The following resources were brought to Egypt for use in the workshop:

1. Pakistan's Population and Pakistan's Development: a 35 m.m. sound slide presentation; an AID/RTI production.
2. Egypt - The Effects of Population Factors on Social and Economic Development. (See Appendix B.)
3. Population Education: a series of overhead transparencies; UNC-Chapel Hill.
4. Environmental Education: a series of overhead transparencies designed and produced in Egypt by the U.S. consultants.
5. For Your Pleasure: a 16 m.m. promotion picture.
6. World Population: a 16 m.m. promotion picture.
7. Population Explosion: a 16 m.m. promotion picture.
8. No Room for Wilderness: a 16 m.m. promotion picture.
9. A series of non-electronic instructional materials:
  - a picture series on doubling time;
  - a large hand-made map of Egypt;
  - a question and answer viewer for "programmed" learning;
  - The Green Box (learning activities for humanistic environmental education); and
  - magnetic board lessons on family size, use of money, and Egypt's population dynamics.
10. Arabic handouts on population and development and instructional design.
11. Five publications, in Arabic and published by the MOE, were distributed to each participant in the workshop. The publications were:

- A Structure for Population Education;
- Methodology in Population Education;
- Physiology of Reproduction;
- Relationship between Family Size and Its Welfare; and
- Evaluation in Population Education.

Appendix B

OVERHEAD TRANSPARENCIES USED IN PRESENTATION ON  
THE EFFECTS OF POPULATION FACTORS  
ON SOCIAL AND ECONOMIC DEVELOPMENT IN EGYPT

## Appendix B

### OVERHEAD TRANSPARENCIES USED IN PRESENTATION ON THE EFFECTS OF POPULATION FACTORS ON SOCIAL AND ECONOMIC DEVELOPMENT IN EGYPT

1. The National Development Goals of Egypt
2. Egypt-Population Dynamics
3. Birth Rates, Death Rates, Rates of Natural Increase, 1952-1978
4. Egypt--Age Distribution and Child Dependency
5. Egypt--Momentum of Population Growth
6. Egypt--Population Growth Under Different Fertility Assumptions, 1976-2025
7. Egypt's Labor Force, 1976-2025
8. Labor Force and Child Dependents, 1976-2025
9. New Job Requirements Per Year
10. Capital Needed to Maintain Present Capital/Labor Ratio
11. Gross Domestic Product and Per Capita Income
12. Government Expenditures Needed to Maintain in 1976 Level of Social Services Per Capita
13. Funds Required to Maintain 1976 Per Capita Income
14. Cereals Required For Food Consumption, 1976-2025
15. Arable Land Per Rural Person
16. Resettlement of Rural Households Required to Maintain Present Ratio of Cultivated Land Per Person
17. Annual Government Health Expenditures at 1977 Rate
18. Pregnant Women in Egypt, 1976-2025
19. Primary School-Age Children and Enrollment Under Constant Fertility
20. Primary School-Age Children and Enrollment Under Three-child and Two-child Families

21. Egypt--Population of Cairo, 1976-2025
22. New Housing Needed in Urban Areas, 1980-2010