

BIBLIOGRAPHIC DATA SHEET
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PN-AAJ-019
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PRELIMINARY GUIDE TO AUDIOVISUAL MATERIALS ON ENVIRONMENTAL AND
NATURAL RESOURCE ISSUES IN DEVELOPING COUNTRIES

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1980, 43P.
(A SURVEY FOR THE U.S. AGENCY FOR INT. DEVELOPMENT/MAN AND THE
BIOSPHERE PROGRAM)

ARC NUMBER - 333.0141.N285
CONTRACT NUMBER - AID/MAB
PROJECT NUMBERS -
SUBJECT CLASS - APO000000000

DESCRIPTORS - AUDIOVISUAL AIDS NATURAL RESOURCES
FILMS ENVIRONMENTAL EDUCATION
ENVIRONMENTAL IMPACT DIRECTORIES
INFORMATION DISSEMINATION TRAINING METHODS
AID

333.0141
N285

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PRELIMINARY GUIDE TO AUDIOVISUAL MATERIALS
ON ENVIRONMENTAL AND NATURAL RESOURCE ISSUES
IN DEVELOPING COUNTRIES

A Survey for the
U.S. Agency for International Development/
Man and the Biosphere Program

Prepared by the
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1980

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Introduction

This survey of films, slides, and videotapes on environmental and natural resource issues in developing countries was undertaken by the International Project of the Natural Resources Defense Council (NRDC) for the U.S. Agency for International Development/Man and the Biosphere Program (AID/MAB).

During the last decade, AID has begun to focus more upon the relationship between environment, natural resources, and development. In 1976, AID issued revised procedures calling for the systematic assessment of the environmental impacts of its proposed projects and activities. In 1977, the U.S. Congress gave AID an explicit mandate to address environmental and natural resources problems facing developing countries. Under Section 118 of the Foreign Assistance Act, AID is authorized to make "[s]pecial efforts . . . to maintain and where possible restore the land, vegetation, water, wildlife, and other resources upon which depend economic growth & human well-being, especially that of the poor."

Through the United States National Committee for Man and the Biosphere, AID has sought to cooperate more closely with other federal agencies, state and private institutions with expertise in natural resources management. One objective of the AID/MAB Program is to provide technical and informational support in strengthening AID's capability in the area of environment and natural resources.

AID's focus upon environmental problems is still relatively new, and there remains a need to increase the understanding of AID personnel and their host country counterparts as to the importance of the maintenance of environmental quality and a sound natural resources base to sustainable economic development. Audiovisual materials can play an important role in this regard.

This preliminary guide is the result of an extensive effort by NRDC to locate such audiovisual materials which might be suitable for use in AID training programs. Requests for information about such materials were widely distributed to over 100 government agencies, academic institutions, environmental organizations, and commercial film distributors in the United States and abroad. In particular, assistance was sought from dozens of institutions and individuals working on environmental problems in developing countries. Over 50 film catalogues and guides were reviewed. Also, there were direct

contacts with a number of agencies and organizations in the United States involved in environmental education activities. A selected list of the sources of materials and information utilized in this survey is included at page 40-42.

There are hundreds of films and other audiovisual materials dealing with various environmental issues and hundreds more dealing with aspects of economic development in Africa, Asia, Latin America, and the Near East. This survey sought to find materials which dealt both with environment and development and were appropriate for adult audiences. We found that this is an area which to date has not received much attention from audiovisual producers.

The principal criteria for the inclusion of a film, slide presentation, or videotape in the guide were: (1) whether it illustrates the effects of economic development upon the human environment; (2) whether it discusses the impacts of natural resource degradation upon human well-being; or (3) whether it illustrates an approach to the protection and management of the natural resources. Another important consideration was whether the material considered such issues in a developing country setting or, if not, in a context relevant to AID/developing country concerns.

This preliminary guide was prepared by Shelley Tanenbaum, Angela Maddamma, and Shepard Johnson, under the direction of S. Jacob Scherr of the NRDC International Project. The NRDC

International Project has worked closely with AID over the past four years in the implementation of its environmental and natural resources activities. Earlier this year, NRDC completed an 18-month study of AID's environmental policies, practices and performance. Members of the NRDC International Project staff have interviewed personnel throughout the agency and visited several AID Missions.

This guide should be viewed as an exploratory "first cut." The necessary resources were not made available to permit the screening of any of the materials listed in the guide. The descriptions of the materials listed in the guide are based almost entirely on information provided by the producers or distributors. Thus, the listing of any particular item in this guide should not be seen as a recommendation as to its quality or usefulness.

The following information is provided for each entry in the Alphabetical Listing of Audiovisual Materials:

- Title of the Material
- Date of Production
- Format (Film, 16 mm or 35 mm; slides; videotape or cassette)
- Length in Minutes
- Color or Black and White
- Language (unless otherwise indicated, all materials are in English)

- Name and Address of Distributor
- Name of Producer
- Purchase Price
- Rental Price
- Availability for Loan
- Description of Content

The materials also are indexed by subject matter and geographic setting. (See pp. 38-39.)

ALPHABETICAL LISTING OF AUDIOVISUAL MATERIALS

1. AFRICA'S CURIOUS NATURALIST. 1976, 16mm, 26 min, color.

Distributor: A-V Explorations, 2000 Eggert Road, Amherst, New York 14226

Purchase: \$325
Rental: \$25

Describes the effects of growing human populations on wildlife in Africa. Pushed into smaller areas, elephants and hippopotamus herds have destroyed their own habitats. Shows management techniques developed to restore the ecological balance.

2. AIR IS LIFE. 1978, 16 mm and 35 mm and videocassette, 15-1/2 min., color.

Distributor: International Film Bureau, Inc., 332 South Michigan Avenue, Chicago, Illinois 60604

Producer: Condor Films AG, Switzerland/

Purchase: 16 mm \$250, vc \$195

Discusses the international aspects of air pollution and its three main causes: power production, transportation and industry. International cooperation, long-term planning and conservation are among solutions presented.

3. ALL THE FISH IN THE SEA. Film, videocassette, 30 min., color.

Distributor: Great Plains National Instructional TV Library, P.O. Box 80669, Lincoln, Nebraska 68501

Producer: UN Films for TV

Purchase: Film \$410, vc \$180
Rental: Film \$35/week, vc \$30/week

Documents the danger of extinction of the anchoveta fish species, due to harvesting in the waters of Peru, the world's leading fishery. Shows how such overfishing in one area can cause harm thousands of miles away.

3A. BITTER MELONS. 16 mm, 30 min., color.

Distributor: Documentary Educational Resources, 5 Bridge St.,
Watertown, Massachusetts 02170

Producer: John Marshall

Purchase: \$430

Rental: \$30

Surveys the daily life of the Igwi San people of Botswana. Illustrates the problems faced by these hunter/gatherers in finding food and water in a desert environment.

4. BAGAN LALLANG: A VILLAGE DROWNED. 60 Slides.

Distributor: Research Director, Consumers' Association of
Penang, 27 Kelawei Road, Penang, Malaysia

Purchase: US \$100 or M \$200

The results of land mismanagement are demonstrated in this case study of one village hit by severe flooding when a developer blocked the flow of a river to facilitate housing construction. The slides show the flooding and its aftermath.

5. BIOLOGICAL CONTROL. 1975, 16 mm, 25 min. color.

Distributor: Methuen Publications, 2330 Midland Avenue,
Agincourt, Ontario, Canada

Producer: Open University Educational Enterprises, Ltd., 12
Cofferidge Close, Stoney Stratford, Milton Keynes
M-K 11 1 BY, Bucks, United Kingdom

Purchase: \$420

Rental: \$32/day

Discusses integrated pest management techniques, combining chemical and biological means to control plant pests. Pest control projects in Trinidad and England are used as illustrations.

6. BOGOTA, ONE DAY. 3/4 inch videocassette, color.

Distributor: WGBH-TV, 125 Western Avenue, Boston,
Massachusetts 02134

Purchase: \$325
Rental: \$65 (3 days)

Documents the plight of the almost five million poverty stricken people in Bogota, Colombia. Profiles the different groups living in the inner city, and contrasts them with the rich, who have fled the area.

7. BOTTLE BABIES. 1975, 16 mm, 26 min. color.

Distributor: Unifilm, 419 Park Avenue South, New York, New
York 10016

Purchase: \$375

Reports on infant malnutrition and deaths that have resulted from formula feeding instead of nursing in developing countries. Concentrates on the city slums and villages of Africa, Asia, and Latin America, where mothers are urged by extensive advertising that formula is better for their babies.

8. BRAZIL NUT BUST. 1975, 16 mm, 50 min., color.

Distributor/Producer: Mr. Michael Austin, 320A King's Road,
London SW3, England

Purchase:

Discusses deforestation in Brazil and the resulting severe soil erosion.

9. BRAZIL: THE AMAZON OPENS. 1975, 16 mm, 75 min., French; 53 min., English, color.

Distributor/Producer: Via le Monde Canada, Inc., 326 Ouest,
St. Paul, Montreal, PQ H2Y 2A3 Canada

Purchase: \$1,500

Tells the story of the construction of a 3,500 mile road through the tropical forests of Brazil, and the attempted colonization of this hostile environment by poor farmers. The economics of development of the region are discussed. English version omits interviews with French experts.

10. THE BUSINESS OF EXTINCTION. 1977 16 mm, and 3/4 in. videocassette, 60 min., color.

Distributor: WGBH, Boston, 125 Western Avenue, Boston, Massachusetts 02134

Purchase: 16 mm - \$600, vc - \$325

Rental: 16 mm - \$60 (one day), vc - \$55 (one day)

Reports on endangered species from the jungles of Thailand and the plains of Africa and how they are threatened by international smuggling and loss of habitat, particularly through deforestation.

11. THE COST OF COTTON. 1979, 16 mm, 30 min., color, Spanish also.

Distributor/Producer: Luis Argueta, West 46th, 1D, New York, New York 10036. (212) 265-4787 or (212) 564-9050.

Purchase: \$4.00

Details the environmental and health consequences of heavy DDT applications in the cottonfields of Guatemala. People are threatened by eating DDT-contaminated foods and by working in DDT-treated fields. An increase in the incidence of malaria is attributed to DDT, as is a virtual disappearance of birds and fish.

12. CRISIS IN MALAYSIAN ENVIRONMENT. 16 mm, 21 min., color.

Distributor/Producer: Consumers Association of Penang,
27 Kelawi Road, Panang, Malaysia.

Purchase: M \$1,000, U.S. \$500

Surveys the environmental problems facing Malaysia. Describes the rapid deterioration of Malaysia's environment in recent years because of industrialization, land mismanagement and urbanization, focussing on air and water pollution, rapid deforestation, sewage disposal, and urban congestion. Case studies of three villages are presented.

13. THE DESERT'S EDGE. 1978, videotape, 60 min., color.

Distributor: WGBH Education Foundation, 125 Western Avenue,
Boston, Massachusetts 02134.

Purchase: \$325

Rental: \$55 (one day)

Loan: Available to AID Missions through the MEETS
Coordinator in AID/W for periods of up to 30 days.

Describes the desertification process, and its results: an area equal in size to Britain, France and Germany has been lost to deserts since the early 1900's. Discusses findings that small-scale projects are proving more effective in arresting and reversing desertification than intensive, large-scale "green revolutions."

14. DESERTIFICATION. 1977, 16 mm, 2x26 min., color, also
French, Spanish, Russian, and Chinese.

Distributor: Sevil Audiovisual, 29 rue Guenegaud, 75006 Paris,
France.

Purchase:

A two-part film on desert ecology. The first part describes man's influence on desertification, looking at over-grazing and deforestation. The second part discusses water control and agronomic research to develop means to rehabilitate degraded land. Includes animation and satellite photography.

15. AN ECOSYSTEM - A STRUGGLE FOR SURVIVAL. 1975, 16 mm, and videocassettes, 22 min., color.

Distributor: National Geographic Society, 17 and M Streets, N.W., Washington, D.C.

Purchase: \$330

Describes the mechanics of an ecosystem, including response to change. The Gir Forest in northwest India is highlighted.

16. ENDANGERED ANIMALS: WILL THEY SURVIVE? 1976, 16 mm, 22 min., color.

Distributor: Encyclopedia Britannica Educational Corporation, 425 N. Michigan Avenue, Chicago, Illinois 60611.

Purchase: \$320

Rental: \$17/3 days, \$4 each additional day

Surveys some of the more than 700 animals on the verge of extinction due to pollution and loss of habitat. Shows how misunderstanding of animals' ecological roles led to mismanagement of wildlife populations. Describes captive breeding, legal limitations, wildlife preserves, and other methods of wildlife protection.

17. ENVIRONMENTAL IMPACT OF RURAL ROADS IN HAITI. 1978, videotape, 20 min., black and white.

Distributor: AID Training Office, MEETS

Producer: Tibor Nagy, USAID/Haiti

Loan: Available to AID Missions

Using rural roads in Haiti as an example, this tape discusses environmental impacts resulting from road construction. Suggests points to consider in preparing Initial Environmental Examinations for such projects.

18. ENVIRONMENTAL SOUNDNESS. 1976, videotape, two parts, 60 minutes each, color.

Distributor: AID Training Office, MEETS

Producer: PM/TD

Loan: Available to AID Missions.

Dr. Leonard Berry, Dean of the Graduate School and Director of the Program in International Development at Clark University, outlines some environmental problems in developing countries, including soil erosion, deforestation, and disease. Discusses the relationship between environment and development and the requirements for environmental reviews.

19. THE EROSION OF OUR LAND. 1976, 28 min., 16 mm, color.

Distributor/Producer: New Zealand Film Board, National Film Unit, P.O. Box 10572, Miramar, Wellington 3, New Zealand.

Purchase: \$420

Documents erosion problems (both natural and man-made) in New Zealand's High Country, pumicelands, and East Coast. Shows disastrous consequences of flooding in lowland farms and towns.

20. ESTUARY. 1976, 28 min., color.

Distributor/Producer: National Oceanic and Atmospheric Administration, Film Order Department, 12231 Wilkins Avenue, Rockville, Maryland 20852.

Loan: Available to public

The beauty and the economic value of estuaries along the U.S. coastlines are depicted. Stresses the need to protect them because of their importance for food, commerce, recreation, and as natural treasures.

21. ETERNAL FOREST. 1970, 21 min., 16 mm, color.

Distributor/Producer: United States Department of Agriculture

Purchase: \$121.75

Describes efforts to restore nature's balance in forests, sensibly using their resources while protecting them for future generations.

22. EVERY DROP COUNTS. 1975, 15 min., 16 mm, color.

Distributor/Producer: Israel Film Service, P.O. Box 7885,
Street, Jerusalem, Israel

Purchase:

Discusses the problem of water shortages in Israel, especially in the South. Describes new approaches to conservation such as fully automatic, computer-controlled watering systems.

23. FARMING WITH NATURE. 1977, 16 mm, 35 min., color.

Distributor: Churchill Films, 662 North Robertson Blvd.,
Los Angeles, California 90069.

Producer: Tom Putnam

Purchase: \$410.00

Rental: \$40

Shows the farming practices of Gene Poirot, a Missouri farmer who has returned worn out prairie soil to fertility by close attention to soil minerals and natural principles. This innovative soil pioneer developed new techniques of soil testing and now teaches them to agriculture students, stressing the need to recycle resources.

23A. FIREWOOD. 16 mm, 10 min., color.

Distributor: Documentary Educational Resources, 5 Bridge St.,
Watertown, Massachusetts 02170

Producers: Timothy Ashe and Napoleon Chagnon

Purchase: \$135

Rental: \$20

Shows the difficulties involved in the daily collection of firewood by women of the Yanomamo tribe in Venezuela and Brazil.

24. FIREWOOD - THE OTHER ENERGY CRISIS. 1977, 16 mm, 10 min., color.

Distributor: Dick Young Productions, 118 Riverside, New York,
New York 10024

Producer: United Nations Environment Program, Division of
Communications, P.O. Box 30552, Nairobi, Kenya

Purchase: \$150

Rental: \$35

Illustrates how extensive and indiscriminate cutting of trees for firewood in the Himalayas is depleting resources and causing massive soil erosion.

25. THE FORMULA FACTOR. 26 min., 16 mm, color.

Distributor: Distribution Branch, National Film Board of
Canada, P.O. Box 6100, Montreal, Quebec, Canada
H3C 3H5

Purchase: \$225

Statistics gathered from the developing world and from Northern Canada indicate severe health problems among bottle-fed babies. Blame for malnutrition and death among such infants is placed on formula-producing multinationals and their aggressive advertising campaigns.

26. FOREST UNDER SIEGE. 20 min., 16 mm, color.

Distributor/producer: Film Canada, 1251 Avenue of Americas,
16th Floor, New York, NY 10020

Purchase: \$290

Rental: \$30 (one day)

Damage caused by insects in Canada's one million and a quarter square miles of forest is described, as are the Canadian Forestry Service's methods for fighting this attack.

27. THE GRAINS OF CONFLICT. 1975, 60 min., 16 mm and 3/4" videocassette, color.

Distributor: Educational Film Distribution 42 Charles Street East, Toronto, Ontario, Canada M4Y 1T5

Producer: CTV, Canada.

Purchase: Film \$600, vc \$350

Rental: Film \$50, vc \$50

Investigates the difficulties in India caused by the "green revolution" -- in particular the small farmers' lack of capital which made it difficult for them to purchase the pesticides and herbicides essential for the new grain varieties.

28. THE GRASSLANDS. 1977, 16 mm, 17 min., color/black & white.

Distributor/Producer: Encyclopedia Britannica Educational Corporation, 425 N. Michigan Avenue, Chicago, Illinois 60611

Purchase: \$220

Discusses ecological nature of grasslands and details importance of the Steppes, Pampas and Great Plains to world-wide food production. The effects of the drought and windstorms of the 1980's in Kansas and Oklahoma are reviewed.

29. THE GREAT TURTLE MYSTERY.

Distributor/Producer: BBC Films, Villiers House, The
Broadway, Ealing W52 PA, United Kingdom.
Purchase:"

Describes the migration to Costa Rica of the endangered
green and ridley turtles.

30. GROUND WATER -- THE HIDDEN RESERVOIR. 1971. 16 mm.
19 min., color.

Distributor: The Media Guild, 118 South Acacia, Solana Beach,
California 92075

Producer: Audio Productions, USA.

Purchase: \$310

Rental: \$32

Describes the basics of ground water hydrology. The
process of exploiting ground water from natural or man-made
wells is explained. Also discussed is saltwater infiltration,
which occurs when ground water is removed faster than it can be
replaced by natural sources.

31. HEALTH, FOOD AND NUTRITION. Slides.

Distributor: Consumers' Association of Penang, 27 Kelawei
Road, Penang, Malaysia

Purchase: US \$125, M \$250

This slide series describes health and nutrition problems
in Malaysia. Malnutrition, rural sanitation, school nutrition,
and the switch from breast-feeding to formula-feeding are among
topics discussed.

32. HELMAND VALLEY PROJECT. 1977, videotape, 23 min., color.

Distributor: AID Training Offices, MEETS

Producer: PS & CD

Purchase: Available to AID missions on loan

Dr. Don Vermeer, Chairman of the Department of Geography and Anthropology at Louisiana State University, describes the problems of waterlogging in the Helmand Valley project of southern Afghanistan. Dr. Vermeer compares traditional methods of irrigation to modern methods that have resulted in soil degradation due to over-irrigation.

33. INDUSTRY. 1972, videotape, 52 min., color.

Distributor: Time-Life Films, Time-Life Bldg., New York, New York 10020

Purchase: \$550

Discusses problems which can occur when developing countries adopt modern industrialization techniques for production of goods and services, among them pollution and natural resource exhaustion.

34. JAMES BAY. 27 min., 16 mm, color.

Distributor: Distribution Branch, National Film Board of Canada, P.O. Box 6100, Montreal, Quebec, Canada H36 3H5

Producer: Diederick d'Ally

Purchase:

The probable effects of the Canadian Government's multibillion dollar hydroelectric project at James Bay upon Cree Indian settlements and magnificent wilderness areas is detailed. Raises questions about the justification for sacrificing such a carefully balanced ecosystem and depriving the Indians of their traditional way of life.

35. KASHIMA PARADISE. 1971, 16 mm, 112 min., color, Japanese, with English subtitles.

Distributor: Unifilm, 419 Park Avenue South, New York,
New York 10016

Purchase: \$950

Explores the effects of industrialization on the people of Japan, in particular the village of Kashima's transformation from a small agricultural area to a giant steel factory and petrochemical plant complex. Details changes which occurred in the villagers' lives and the effects of pollution from the new plants.

36. KUALA JURU: A FISHING VILLAGE STRUGGLES FOR SURVIVAL.
49 slides.

Distributor/Producer: Research Director, Consumers'
Association of Penang, 27 Kelawei Road,
Penang, Malaysia.

Purchase: U.S. \$100, or M \$200

- Construction of a bridge and industrial center near the fishing village of Kuala Juru resulted in severe environmental impacts: pollution from industry and siltation from the bridge killed all the fish in the river and thus deprived the villagers of their livelihood.

37. LAND USE AND MISUSE. 1973, 16 mm, 13 min., color.

Distributor: Learning Corporation of America, 1350 Avenue of
the Americas, New York, New York 10019

Purchase: \$230

Rental: \$20/3 days

Details erosion problems caused by deforestation, industrial and agricultural mismanagement and urban development. Loss of water, crops and wildlife, and climatic changes are discussed.

38. LANDSAT - A SATELLITE FOR ALL SEASONS, AN ENVIRONMENTAL SERIES. 1977, 16 mm films, 15 min. each, color.

Distributor: National Audiovisual Center, General Services Administration, Attn: Order Section/RR, Washington, D.C. 20409

Producer: USNASA

Purchase: \$522 (\$87 each)

These films show how the satellite LANDSAT can provide information on environmental quality, geology, and land development. The six films are:

THE FRACTURED LOOK
GROWING CONCERNS
LAND FOR PEOPLE, LAND FOR BEARS
THE POLLUTION SOLUTION?
REMOTE POSSIBILITIES
THE WET LOOK

Two films, GROWING CONCERNS and POLLUTION SOLUTION are particularly of interest to developing countries. In GROWING CONCERNS, it is shown how the LANDSAT satellite can be used to survey and monitor agricultural resources. Satellite imagery can also be used to pinpoint areas infested with insects, hence facilitating pest control. In THE POLLUTION SOLUTION, it is shown how the satellite can trace some air and water pollutants. The satellite can also be used to monitor strip mining and land reclamation.

39. LAS GAVIOTAS. Spanish also.

Distributor/Producer: Guillermo Cajiao, Comunicacion Cinematografica, Apartado Aereo 5621 Cali, Colombia

Purchase: \$935

The film describes a model human settlement in the lowland tropics of Colombia.

40. LIFE IN A TROPICAL RAINFOREST. 1978, 16 mm, 14 min., color.

Distributor: BFA Educational Media, P.O. Box 1795,
2211 Michigan Avenue, Santa Monica, California
90404

Producer: Wolfgang Bayer

Purchase: \$200

Rental: \$16

The ecology of tropical rainforests is presented well visually, but this film is short on information. The film does not discuss the impact on rainforests of human activities, the future of rainforests, nor their fragility. Some information presented in the film is over-generalized.

41. LIVING OFF THE LAND. 16 mm, videocassette, 30 min., color.

Distributor: Great Plains National Instructional Television
Library, P.O. Box 80669, Lincoln, Nebraska 68501

Producer: United Nations Television

Purchase: Film \$410, vc \$180

Rental: Film \$35/week, vc \$30/week

Discusses environmental impacts of development in developing countries. Two countries are highlighted: In Malawi, ecological implications from agricultural development are examined, and in Ghana the construction of the world's largest man-made lake, Lake Volta, is discussed.

42. THE LIVING SANDS OF NAMIB. 1978, 16 mm, 59 min., color.

Distributor/Producer: National Geographic Society, 17th and
M Streets, N.W., Washington, D.C. 20012

Purchase: \$495 •

Rental: \$35

Portrays the diverse organisms that survive in the Namib Desert of Southwest Africa. Demonstrates the ways in which plants and animals adapt to a harsh environment.

43. MAN ALIVE: A SPACE TO BE. 1976, 16 mm, 30 min., color.

Distributor/Producer: CBC Television, P.O. Box 500,
Station A, Toronto, Ontario, Canada

Purchase:

The Egyptian architect Hassan Fathy discusses his ideas for housing in developing countries.

44. THE MANAGED FOREST. 1976, 16 mm, 26 min., color

Distributor/Producer: Mephitis Productions, c/o Lynn Storey,
Box 134, Wilberforce, Ontario, Canada
K0L 3C0

Purchase:

Discusses the problems of vanishing wildlife habitat and multiple land use.

45. THE MAN-MADE LAKES OF AFRICA. 1972, 16 mm, 45 min., black and white.

Distributor: Time Life Video, 1001 N. Highland Street,
Arlington, Virginia 22201

Producer: BBC Television Enterprises, Villiers House, The
Broadway, W52 PA, United Kingdom

Purchase: \$1,500

Examines the environmental and economic implications of hydroelectric dams and man-made lakes in Africa. Kariba Lake, Lake Nassar, and Lake Volta are highlighted. Industrial growth, flood control, and improved transportation are achieved, but at the cost of environmental damage, climatic changes, and community disintegration.

46. MODERNISATION AND THE ENVIRONMENT. 80 slides

Distributor/Producer: Consumers' Association of Penang,
27 Kelawei Road, Penang, Malaysia

Purchase: M \$250, US \$125

A survey of current environmental problems in Malaysia. Case studies of several communities are presented, demonstrating problems of air and water pollution, sewage disposal, deforestation, and urbanization.

47. MZIMA: PORTRAIT OF A SPRING. 16 mm and videocassetts. 53 min., color.

Distributor: McGraw-Hill International Book Company, Film and Media Department, 1221 Avenue of the Americas, New York, New York 10020

Purchase: \$700 (film), \$525 (videocassette)
Rental: \$38 (film)

Documents the interdependence of animals in Kenya's Mzima Springs, a microcosm of jungle life. Some underwater footage.

48. THE NGUBA CONNECTION. 1978, 3/4 inch videocassette, color.

Distributor: WGBH Distribution Office, 125 Western Avenue, Boston, Massachusetts 02134

Producer: Otto Honegger

Purchase: \$250
Rental: \$50

The peanut industry, a multibillion dollar business, is used in comparing developed and developing nation agriculture.

49. NOAH'S PARK. 1976, 16 mm, 27 min., color.

Distributor: Phoenix Films, 470 Park Avenue South,
New York, New York 1003.

Producer: Herbert Krosney

Purchase: \$375

Rental: \$37.50

Examines the Israeli conservation effort to repopulate the Negev Desert with animal species which were present in Biblical times. Animals are captured by Bedouin tribesmen and bred and raised by Israeli biologists at the National Biblical Wildlife Reserve.

50. PESTICIDES IN THE ENVIRONMENT. 1975, 80 slides with audiocassette, 17 min., color.

Distributor: National Audiovisual Center,
General Services Administration,
Attn: Order Section/RR, Washington, D.C. 20409

Producer: Colorado State University Audio-Visual Services

Purchase: \$28.75 (checks to National Archives Trust
Fund-NAC)

Examines environmental hazards caused by misuse of chemical pesticides.

51. PROBLEMS OF CONSERVATION: FOREST AND RANGE. 1979, 16 mm,
14 min., color, Spanish also

Distributor: Distribution Office, Encyclopedia Britannica
Educational Corp., 425 North Michigan Avenue,
Chicago, Illinois 60611

Purchase: \$185
Rental: \$12

Details the "multiple use" programs in large forest and rangeland areas in the United States which stress protection and management to assure effective use of resources. Presents constant battle to preserve wilderness areas in view of rapidly expanding population pressures.

52. RECLAMATION OF THE NEGEV. 1975, 16 mm, 12 min., color.

Distributor/Producer: Israel Film Service, P.O. Box 7885,
1 Mendele Street, Jerusalem, Israel

Purchase: \$168
Loan: Available on limited loan from Israel Embassy,
Washington, D.C.

Discusses the problems of agricultural and housing development in a desert environment, and how they were overcome.

53. THE RENEWABLE TREE. 1979, 16 mm and videocassette, 59 min., color.

Distributor: Time Life Multimedia Distribution Center,
100 Eisenhower Drive, P.O. Box 644,
Paramus, New Jersey 07652

Producer: WGBH

Purchase: Film \$590, videocassette \$295

Rental: Film \$60

Explores solutions to the problem of conserving forests while continuing to meet economic and social demands. Contrasts the standard logging method of clear-cutting--cutting down every tree, regardless of its stage of development, in a give area, and in so doing destroying the area's nutrient replenishment cycle--with newer methods stressing conservation. Examines experiments to produce "super trees" which will thrive in substandard conditions.

54. THE RIGHT TO POLLUTE. 1976, 35 mm and cassette in two parts, 39 min., color.

Distributor: Educational Audio Visual,
Pleasantville, New York 10570

Purchase: \$55

Part 1 focusses on the environmental crises in developing countries created by industrialization, among them pollution and shrinking resource bases. Part 2 discusses the developmental needs of Third World countries.

55. THE RISE AND FALL OF DDT. 1977, 16 mm and videocassette, 18 min., color.

Distributor: Time Life Multimedia Distribution Center,
100 Eisenhower Drive, P.O. Box 644,
Paramus, New Jersey 07652

Producer: WGBH-TV

Purchase: Film \$240, Videocassette \$120

Rental: Film \$25

Details the pros and cons of DDT, called a "miracle" chemical by some, an "indiscriminate destroyer of wildlife" by others. Considering the lives it has saved, the ease and economy of its use, its relatively low price, and the fact that to date there is no evidence that it causes cancer, the film debates whether DDT has been prematurely condemned.

56. THE RIVER MUST LIVE. Revised 1975, 16 mm, 15 min., color.

Distributor: Shell Oil Film Library,
1433 Sadlier Circle West Drive,
Indianapolis, Indiana 46239

Loan: Available from Distributor

Describes decreased usage of major waterways due to pollution problems, and discusses growing need for additional water resources. Compares normal freshwater community interactions with those of polluted waters. Does not cover the effects of toxic substance discharges. Methods to combat pollution of rivers are discussed, emphasizing oxygen economy improvement.

57. RIVER (PLANET EARTH). 1979, 16 mm, 28 min., color.

Distributor: McGraw-Hill Book Company, Princeton Road,
Heights Town, New Jersey 08520

Producer: Fisheries and Environment Canada and NFB

Purchase: \$425

Loan: Available through Canadian Missions

Details importance of river systems to man and demonstrate how water affects economy, sociology, and ecology of a country. Shows how water is "inverted, dammed, used and expelled" for the purposes of industry, power and irrigation.

58. SECOND WORLD CONFERENCE. 1973, 16 mm, 28 min., color.

Distributor: National Audiovisual Center, General Services
Administration, Attn: Order Section/RR,
Washington, D.C. 20407

Producer: U.S. National Park Service

Purchase: \$162.50 (Check to National Archives Trust
Fund-NAC)

A documentary of the Second World Conference on National Parks, held at Yellowstone and Grand Teton National Parks in 1972, with representatives from over 90 countries, where various aspects of conservation, park management, and global environmental problems were discussed.

59. A SENSE OF HUMUS. 1976, 16 mm, 28 min., color

Distributor: Bullfrog Films, Box 114, Milford Square,
Pennsylvania 18935

Producer: Roman Bittman, for the National Film Board of
Canada

Purchase: \$375

Rental: \$35

Loan: Available through Canadian Missions

Demonstrates the economic viability of farming without artificial fertilizers and pesticides. Several small farms throughout Canada are examined, where higher yields and uncontaminated produce are common without the use of costly and energy intensive chemical applications. Explores such organic farming techniques for their possible use in developing countries, since they conserve more resources while using less energy, create less pollution and produce more nutritious food.

60. SHOULD OCEANS MEET? 1971, 16 mm and videocassette, 30 min., color, Spanish also.

Distributor: Time Life Multimedia Distribution Center,
100 Eisenhower Drive, Paramus, New Jersey 07652

Purchase: Film \$400, Videocassette \$200

Rental: Film \$40

Raises questions about the consequences of tampering with joining the Atlantic and Pacific Oceans with a sea-level canal across the Isthmus of Panama, since prior attempts at rerouting or otherwise changing water ways have had unforeseen, adverse effects. Possible impacts on tides, currents, temperatures and animal life are described.

61. SKIN, EYE, AND LUNG PROTECTION FROM PESTICIDE EXPOSURE. 1975, 60 slides and audiocassette, 15 min., color.

Distributor: National Audiovisual Center,
General Services Administration,
Attn: Order Section/RR, Washington, D.C. 20409

Producer: USOPP

Purchase: \$26

Demonstrates correct procedures for reducing incidence of physical harm when using and handling chemical pesticides.

62. SLASH-AND-BURN AGRICULTURE. 16 mm, 17 min., color.

Distributor: B & C Films, 3971 Murietta Avenue,
Sherman Oaks, California

Purchase: \$225

Rental: \$25

Describes slash-and-burn cultivation in tropical forests, portraying techniques for choosing an area, cutting, clearing, planting and harvesting. Discusses differences between slash-and-burn agriculture and mechanized farming, showing the former's compatibility with the ecological balance.

63. SO FAIR A LAND. 1977, 16 mm, 15 min., color.

Distributor: National Audiovisual Center, Attn: Order Section,
Washington, D.C. 20409

Producer: U.S. Agency for International Development, Office
of Public Affairs

Purchase: \$87 (check should be made out to National
Archives Trust Fund-NAC)

Explains the operation and effects of U.S. foreign aid on
the Dominican Republic's forest people.

64. SOLAR ENERGY -- THE GREAT ADVENTURE. 1979, 16 mm, 27 min.,
color.

Distributor: Monumental Films, Inc.,
2160 Rockrose at Malden Avenues,
Baltimore, Maryland 21211

Producer: U.S. Department of Energy, U.S. Environmental
Protection Agency, and U.S. Defense Civil
Preparedness Agency

Purchase: \$275

Introductory film on small-scale solar energy systems.
Series of on-site interviews with professionals and amateurs
working in various areas of solar energy: wind, biomass, solar
heating and others. Focusses on integrated systems.

65. STRIKING A BALANCE. 16 mm, videocassette and kinescope,
30 min., color.

Distributor: Great Plains National Instructional Television
Library, P.O. Box 80669, Lincoln, Nebraska 68501

Producer: United Nations Films-TV

Purchase: Film \$410, vc \$180

Rental: Film \$35/week, vc \$30/week

Reviews various non-chemical methods for controlling
agricultural pests. Highlights projects in Peru's Canete
Valley and at the University of California, where experiments
in "integrated control" are being conducted. Does stress
continuing need for DDT in malaria control.

66. SUDAN: THE CREEPING DESERT. 1977, 16 mm, 13 min., color.

Distributor/Producer: United Press International News Film,
48 Wells Street, London W1, England

Purchase:

Portrays effects of desertification on nomads in the Sahara Desert, and describes reforestation projects under way to try to halt the process.

67. SUN POWER FOR FARMS. 1977, 16 mm, 12 min., color.

Distributor: National Audiovisual Center,
Attn: Order Section/RR, Washington, D.C. 20409

Producer: U.S. Department of Agriculture

Purchase: \$69.50

Describes new developments in using solar energy in agriculture.

68. SURVIVAL IN THE SAHEL. 1975, videotape, 14 min., color.

Distributor/Producer: AID Training Office, MEETS

Loan: Available to AID Missions

Documents the devastation resulting from a six-year drought in the Sahel. Describes emergency relief efforts and discusses types of development needed to prevent such disasters in the future.

69. TOOLS OF CHANGE. 1978, 16 mm, 30 min., color.

Distributor: Unifilm, 419 Park Avenue South, New York,
New York 10016

Purchase: \$400

Explores the "role of technology in history, society and development," emphasizing "appropriate technology" methodology in relation to development project goals rather than size. Professor Amulya K.N. Reddy of the Institute of Technology in Bangalore, India, discusses his differences with the "small is beautiful" concept. Also discussed are the role of multinationals in technology transfer to developing countries; potentially disastrous social and political effects of some technologies, including atomic energy; and appropriate large-scale technologies. Examples included from Africa, Asia, Latin America and Europe.

70. TOPSOIL AND VEGETATION. 1976, 16 mm, 9 min., color.

Distributor: Paramount Communications, 5451 Marathon Street,
Hollywood, California

Producer: ACI Films and Norsk Dokumentarfilm

Purchase: \$165

Rental: \$20

Illustrates the geologic history of arable land. Emphasizes the complex long-term development of such land, including a description of soil ecology; and the need for preservation measures as arable land resources dwindle.

71. TRACES IN THE SAND. 1976, 35 mm, 18 min., color, French only.

Distributor: Office Nationale pour le Commerce et l'Industrie
Cinematographiques, Algeria

Purchase:

Reviews the desertification process in the Sahara Desert over the last century. Natural and man-made disasters have transformed the Sahara from an area abundant in plant and animal life to an area where the last of the desert fauna is in danger of extinction.

72. TREES IN THE DESERT. 1977, 16 mm, 30 min., color.

Distributor/Producer: United Press International News Films,
48 Wells Street, London W1, England

Purchase:

Discusses the tree planting program in Abu Dhabi, begun six years ago. Already supporting bird and insect populations and affecting local climate, it is anticipated that the new forests will soon have advanced to the point of accommodating a farming program.

73. TROPICAL FOREST. 1975, 16 mm, 25 min., color.

Distributor: Methuen Publications, 2330 Midland Avenue,
Agincourt, Ontario, Canada

Producer: Open University Educational Enterprises Ltd., 12
Cofferidge Close, Stony Stratford, Milton Keynes
MK11 1BY, Bucks, United Kingdom

Purchase: \$420

Rental: \$32/day

Explores the tropical forest ecosystem of South-East Asia. Examines its variety of vegetation, growth and regeneration, and other areas. Also includes some discussion of tropical forest exploitation problems.

74. TROPICAL RAINFOREST CONSERVATION. Slide/Tape.

Distributor: Sierra Club International Earthcare Center,
800 Second Avenue, New York, New York 10017

Producer: UNESCO Man and the Biosphere Program

Purchase: \$50

Rental: \$10

Describes the flora, fauna and ecological dynamics of tropical rainforests worldwide. Causes of rainforest deforestation and degradation are discussed, including population growth, unwise agricultural development, conversion to ranching, overcutting, and reservoir construction. Various management and policy solutions are presented, among them ecological mapping, parks and reserves, and properly regulated timber operations and development projects.

75. THE TURTLE PEOPLE. 16 mm, 26 min., color.

Distributor: B & C Films, 3971 Murietta Avenue,
Sherman Oaks, California

Purchase: \$325

Rental: \$25

A vehicle for the discussion of problems in "integrating traditional societies into the world market economy," the traditional society in this case being the Miskito Indians of eastern Nicaragua. The sea turtle is both the main sustenance of these Indians and their most saleable commodity in the marketplace. Conflicts are now arising as the turtle becomes increasingly scarce, and some natives go hungry so that others may sell the turtles and buy the material goods they have been introduced to and now cherish.

76. THE VANISHING BREED. Film, videocassette and kinescope,
30 min., color.

Distributor: Great Plains National Instructional T.V. Library,
P.O. Box 80669, Lincoln, Nebraska 68501

Producer: United Nations Television

Purchase: Film \$410, vc \$180

Rental: Film \$35/week, vc \$30/week

Looks at growing conflict between conserving dwindling animal species and giving in to demands for greater farming, industry and housing in the animals' habitats. Endangered species in East Africa are highlighted, discussing what is being done to protect them, and if such practices should be continued. International whaling regulations are also discussed.

76A. VIDA Y MUERTE DE UN BOSQUE. 16 mm, 10 min., color,
Spanish also.

Distributor: Cecilia Blohm, Sierra Club Latin American
Representative, Campo Alegre, Avenue Los
Cortijos, No. 203-102, Apdo. 69, Caracas 101
Venezuela

Purchase:

Describes deforestation in Venezuela and the need for
tropical forest conservation.

77. THE WATER CYCLE. 1972, 16 mm and 35 mm, 26 min., color.

Distributor/Producer: New Zealand Film Board, National Film
Unit, P.O. Box 10522, Miramar,
Wellington 3 (or contact nearest New
Zealand diplomatic or trade office)

Purchase: \$390

Describes the hydrologic cycle in New Zealand, both as it
should occur naturally, and as it has changed to deal with
man's continuing development and pollution. Outlines the scope
and causes of water pollution in New Zealand

78. WATER: THE HAZARDOUS NECESSITY. 27 min., color.

Distributor/Producer: National Film Board of Canada,
1572 Barrington Street, Halifax,
Nova Scotia, B3J 1Z6

Purchase:

Reports on the severe water problems in developing
countries. One-half of the world's population is without safe
drinking water and some 37 major water-bourne diseases plague
developing countries. Discusses various solutions: improved
sanitation and water clean-up, drugs and medication,
pesticides, etc. Argues that more money is needed for tropical
disease research.

79. WATER FOR LIFE. 1973, 35 mm, 19 min., black and white.

Distributor/Producer: Department of Information,
Government of Sri Lanka, Colombo

Purchase: \$893

Examines the importance of water to Sri Lanka. Discusses the problems caused by water pollution, and measures being taken to provide more water and prevent water-borne disease.

80. WHAT ARE WE DOING TO OUR WORLD. 16 mm, 60 min. (2 parts), color.

Distributor/Producer: Dolores Sura, CBS News, 524 West 57th Street, New York, New York 10019

Purchase: \$600 (2 parts)

Discusses environmental impacts of technological advancement. Water and air pollution, soil depletion, and endangered wildlife species are surveyed.

81. WHAT GOOD IS A WARBLER? 1975, 16 mm, 12 min., color.

Distributor/Producer: Adams and Adams Films,
706 Wayside Drive, Austin, Texas 78703

Purchase: \$195

Examines the interdependence of plants, animals, and their environment by documenting the family life of the endangered Golden-cheeked Warbler.

82. WILL THE FISHING HAVE TO STOP? 1975, 16 mm, 31 min., color.

Distributor: Time Life Multimedia, Time Life Building,
Room 32-48, New York, New York 10020

Producer: Ben Shedd, WGBH-TV, Boston

Purchase: \$375

Rental: \$40

Presents research of the ocean's food chain, in an attempt to understand fluctuations in fish populations. Studies various solutions to the waning fish population, including better international cooperation in size and fish-catch monitoring.

83. THE WITCHY WEED. 1970, 16 mm, 27 min., color, Portuguese with English subtitles.

Distributor: Unifilm, 419 Park Avenue South,
New York, New York 10016

Purchase: \$300

Details the development of the tobacco industry in Brazil. Discusses hazards to workers in tobacco production, among them skin and respiratory disease from constant contact with the plant, and loss of jobs through increasing mechanization.

84. Y MANANA? Spanish only.

Distributor/Producer: Guillermo Cajiao, Comunicacion
Cinematografica, Apartado Aereo 5621,
Cali, Colombia

Purchase: \$826

Documents the problem of deforestation and its adverse effects in Colombia.

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SELECTED LIST OF SOURCES OF MATERIALS
AND INFORMATION

Educational and Environmental Agencies--

National Audiovisual Center
Washington, DC 20409
(202) 763-7420

Center for Environmental Education
1925 K Street, N.W.
Washington, DC 20006
(202) 466-4996

Enoch Pratt Public Library
400 Cathedral Street
Baltimore, Maryland
(301) 396-4616

National Oceanic and Atmospheric Administration
2001 Wisconsin Avenue, N.W.
Washington, DC
(202) 443-8921

Sierra Club
530 Bush Street
San Francisco, CA 94108
(415) 981-8634

National Audubon Society
950 Third Avenue
New York, NY 10022
(212) 832-3200

National Geographic Society
17th and M Streets, N.W.
Washington, DC
(202) 857-7000

Cousteau Society
777 Third Avenue
New York, NY
(202) 826-2940

Environmental Protection Agency
Environmental Information Service
401 M Street, S.W.
Washington, DC 20460
(202) 755-1836

Canadian Embassy
Public Affairs Division
1771 N Street, N.W.
Washington, DC 20036
(202) 785-1400

Documentary Educational Resources
5 Bridge Street
Watertown, MA 02172
(617) 926-0491

Library of Congress
Motion Pictures Division
10 First Street, S.E.
Washington, DC 20540
(202) 287-5840

Media Extension Education Training Service (MEETS)
AID Training Office
Coordinator for Films
1735 North Lynn, Room 405
Rosslyn, VA
(703) 235-9098

Smithsonian Tropical Research Institute
Box 2072
Balboa, Canal Zone

Professor Donald Vermeer
Department of Geography and Anthropology
Louisiana State University
Baton Rouge, LA 70803
(504) 388-5942

Audiovisual Reviews--

Science Books and Films. AAAS (periodical).

Library of Congress Catalogue of Audiovisual Materials
(periodical).

Landers Film Reviews: The Information Guide to 16 mm Films and
Multi-Media Materials. Landers Associates, P.O. Box 69760, Los
Angeles, California 90069 (periodical).

Reel Change: A Guide to Films on Appropriate Technology.
Diane Garey and Larry Hott, Soft-Aware Associates, Inc.,
Friends of the Earth, San Francisco (1979).

Films from EPA. Office of Public Affairs (A-107), U.S. Environmental Protection Agency, Washington, DC 20460 (1977).

International Directory of Environmental Film Sources. EARTHSCAN, 10 Percy Street, London W1P ODR, England (1977).

The Environment Film Review: A Critical Guide to Ecology Films. Environment Information Center, Inc., Film Reference Department, 124 East 39th Street, New York, NY 10016 (1972).