

BIOLOGY AND ENVIRONMENT
ARTICLE PROJECT REPORTS - ADDITIONAL INSTRUCTIONS

1. Save paper - please no separate title pages or literature citation pages. All of this information, including the article citation, should go at the top of your one page article summary.

Example:

Aldo Leopold 8 a.m. M W F
Article Project # 1 September 2, 1993

Duplaix, N. 1990. South Florida Water: Paying the Price. National Geographic 178 (1): 89-113.

(NOTE: 178 is the volume, 1 is the issue number, and 89-113 are pages)

2. At the bottom of your report, lead in to your accompanying activity. Explain how this activity relates to what you learned.

Examples:

a. To follow up on the information I learned in the article by Duplaix, I wrote a letter to the South Florida Water Management District, because they have responsibility to regulate consumptive use of water. A copy of this letter attached to my report.

b. Because of the problems I learned about in Repetto's article on tropical deforestation, I decided to join The Nature Conservancy. This conservation group works to protect species diversity. Its Latin America Division has helped protect a variety of habitats including tropical rainforests. Attached is a copy of my check, my membership application and a brochure describing some of their projects.

c. I read this article on beach erosion after attending a ranger-led field trip at Canaveral National Seashore that showed the importance of dune vegetation in reducing erosion. Information from the field trip is summarized on page 2.

3. Reminders: Your syllabus includes:

- a. examples of article topics to keep you on track
- b. reference to Appendix V, p. A17, for letter writing instructions

ARTICLE PROJECT- EXAMPLE

(Use this format)

Edwina Wilson, September 24, 2001, 6 p.m., M (your name, date submitted, class meeting time)

BIOSPHERE-RESERVES

Reference Citation

Dyer, M.I. and M.M. Holland 1991. The biosphere-reserve concept: need for a network design. Bioscience 41 (5): 319-325.

Outline

I. The Concept of Biosphere-Reserves

- A. to set aside representative lands
- B. to preserve genetic stocks
- C. to better human societies in regions with environmental degradation

II. Current Status

- A. 280 reserves identified, 43 in U.S.
- B. many lack clear definition of operational guidelines and objectives
- C. most so far based on broad vegetation zones defined by Udvardy

III. Networks of reserves - commonalities across space and time

- A. central place systems - for landscape dynamics analysis
- B. interconnectable nodes - corridors link reserves

IV. Research and Conservation Sites

- A. many reserves lack funding for research and policy plans
- B. NSF's Long-Term Ecological Research sites
- C. UNESCO's Man and Biosphere Program
- D. monitoring
 - 1. species number
 - 2. chemical and physical values
- E. experimental manipulation
 - 1. environmental control factors - e.g., temperature or water
 - 2. pollutants

V. Needs for Successful Biosphere Reserves - a prototype is the coastal marine system along the eastern seaboard

- A. Address current ecological threats, e.g., air pollution, climate changes
- B. Strong science foundation
- C. Charters that serve national and international needs
- D. Well defined projects

(this is an example of the second page of an article report)

I. Name and Address of a **Policy Decision-maker** to write to on the issue:

According to p. 114-115 of:

Florida Conservation Foundation 1993. Guide to Florida Environmental Issues and Information.
Fla. Conservation Foundation,
Winter Park, FL.

Florida's governor and state legislature passed Preservation 2000 in 1990, a ten year, \$3 billion land acquisition project for preserving endangered species and habitats (as described in the article by Dyer and Holland). Much of the funding goes to the Conservation and Recreational Lands (CARL) program which is (according to p. 286 of FCF's guide) administered by:

Florida Department of Natural Resources
3900 Commonwealth Blvd.
Tallahassee, FL 32399

I could write a letter to the CARL committee telling them to purchase lands which support the biosphere reserve concept or to Florida's governor or state legislators asking them to continue to fund Preservation 2000. According to my voter registration card, I live in FL Senate District 12 and FL House of Rep. District 40.

II. **Personal Actions** - I could help with this issue with the following actions.

A. **Political Actions** (Other than writing to an elected official as described above):

Vote for local, state, and federal officials who support nature reserves.

B. **Consumer Actions:**

1. Don't buy products made from endangered species. According to pp. 46 and 75 of:
The Earthworks Group. 1989. 50 simple things you can do to save the Earth. Earthworks Press. Berkeley, CA,
those items include ivory, tortoiseshell, coral, cat pelts, and some tropical hardwoods.

2. Don't buy products which involve the destruction of endangered habitats. According to page 42 of the following reference that includes beef from rainforest areas:

Lewis, S. 1990. The rainforest book: How you can save the world's rainforests. Living Planet Press, Los Angeles.

3. Do buy products that depend on intact ecosystems, e.g., Brazil nuts.

C. **Environmental Group Action:** Financially support or volunteer time for organizations that support the idea of reserves. According to Appendix 1 of our text these include:

1. Conservation International
2. International Union for Conservation of Nature and Natural Resources
3. Rainforest Action Network
4. The Nature Conservancy

III. **Field Trip** - I could learn more about reserves by:

A. Attending a field trip to any county, state or federal land designed for conservation purposes, e.g., Wekiva Basin GEOPark, or Ocala National Forest.

B. Attending a meeting of a local environmental group, such as those listed in the syllabus, about conservation of habitat or endangered species.

C. Attending a conference such as a Florida Native Plant Society conference regarding the ecosystem preservation.

D. Attending a city or county commission meeting where the topic is land acquisition, preservation, or management.

Reference Citation Format for a Scientific Paper

In Text of Paper:

1. examples for a single author:
 - a. Bean (1993) suggests a "... lack of official interest in ..." invertebrates.
 - b. No invertebrate has yet recovered sufficiently to ... (Bean, 1993).
2. examples for two authors:
 - a. Opler and Krizek (1984) include 54 plates.
 - b. Some specimens of the Eastern Tiger Swallowtail are ... (Opler and Krizek, 1984).
3. examples for three or more authors:
 - a. Schaal *et al.* (1992) analyzed ribosomal DNA sequences.
 - b. Habitat loss shrinks populations and thus ... (Schaal *et al.*, 1992).
4. example for communication in person or by phone (not to be listed in Literature Cited):

A precise location one mile NW of Pensacola, N of US 90 was given for the pickerel frog, *Rana palustris* (R.E. Ashton, personal communication).

Be sure to use quotation marks when quoting a passage. However, quotations should be used sparingly, only when the exact wording is important. In most cases, rather than quoting, the information should be rewritten in your own words.

In "Literature Cited" Section of Paper:

1. example for a single author of a journal article:

Bean, M.J. 1993. Invertebrates and the Endangered Species Act. *Wings* 17 (2): 12-15.
(Note: Journal name needs to be italicized or underlined, 17 is the volume number, 2 is the issue number, and 12-15 are the page numbers).
2. example for a book with two authors:

Opler, P.A. and G.O. Krizek. 1984. *Butterflies East of the Great Plains*. John Hopkins University Press, Baltimore. 294 pp.
(Note: Publisher's name and location are given. Also notice the hanging indent for any reference that extends longer than one line, that is, the second and later lines are indented.)
3. example for three or more authors:

Schaal, B., W.A. Smith, and K. Schmid. 1992. DNA variation in the rare endemic *Salvia penstemonoides*. *Wildflower* 5 (2): 28-32.
(Note: Unlike the format for within the text of the paper, all names are listed).
4. example for document written and published by same agency:

St. Johns River Water Management District. 1994. *Chapter 40C-9: Water Management Lands Acquisition and Management*. Palatka, Florida. 15 pp.

Literature citations should be listed in alphabetical order at the end of the paper.