

READINGS IN THE FIELD
OF
NATURAL RESOURCE & ENVIRONMENTAL ECONOMICS

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PREFACE

This is the latest version of a document periodically produced since the early 1980's. It combines an outline of the field of natural resource and environmental economics with a bibliography of 945 references. In the past, this reading list has been used in a variety of ways: as a guide to the literature for graduate students in departments of economics which do not offer a Ph.D.-level survey course of the field; as a resource for Ph.D. students who wish to develop a directed readings course in the field; and as an aid to students at the masters and undergraduate levels who wish to explore selected areas in greater depth.

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We welcome suggestions of ways to improve this document, including additions and other changes to the outline and reading list. Please send your suggestions to Rob Stavins at the John F. Kennedy School of Government, Harvard University, 79 John F. Kennedy Street, Cambridge, Massachusetts 02138; phone 617-495-1820; fax 617-496-3783; e-mail: robert_stavins@harvard.edu.

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b. Single-Owner Private Production (or Public Management)

(1) Overview

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(a) Theory

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(b) Effects of Uncertainty

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- (3) Backstops**
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- (4) Discount Rate Effects**
 - Farzin 1984
- (5) Stochastic Time Horizons**
 - Long 1975
 - Henderson and Salant 1978
- (6) Increasing Extraction Costs**
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 - Hanson 1980
- (7) Risk Aversion**
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- (8) Variable Technological Capabilities**
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- (10) Multiple Deposits**
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 - Hartwick 1978
 - Weitzman 1976b
- (11) Multiple Uses/Users**
 - Chakravorty, Roumasset, and Tse 1997
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(12) Recycling

- Fullerton and Wu 1998
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(13) Durables

- Karp 1996
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- Levhari and Pindyck 1981
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(14) Multi-Sector Economy

- Gale 1967

(15) Imperfect Competition

(a) General

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- Khalatbari 1977
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(b) Monopoly

- Pindyck 1987
- Gilbert 1978
- Lewis 1976
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(c) Oligopoly

- Reinganum and Stokey 1985
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2. Renewable Resources

a. Overview

(1) The Basic Model

(a) General

- Swallow 1990
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- Smith 1977a
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(b) Basic Forests

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(c) Basic Fisheries

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- Lewis 1981
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- Haight and Holmes 1991
- Norstrom 1975
- Plantinga 1998
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b. Public Management (or Single-Owner Private Production)

- Clark 1990, Ch. 2.4-4.6
- Anderson 1986
- Kellogg 1988
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(1) Stock Externalities

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- Berck 1981
- Falk and Mendelsohn 1993
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(2) Irreversible Investment

- Clark *et al.* 1979
- Charles 1983

(3) Limited Entry

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- Wilen 1988

(4) Contracting

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(5) Enforcement

- Anderson 1989
- Sutinen and Anderson 1985

(6) Taxation

- Chang 1982

(7) Information Management

- Arnason 1990

(8) Multispecies Management

- Wilson 1982

(9) Downstream Sectors

- Clark and Munro 1980

(10) User Group Conflicts

- Bishop and Samples 1980

(11) Congestion

- Brown 1974

3. External Effects

a. General

(1) Open Access

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(2) Common Property

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(2) Common Property

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(3) Information Spillovers

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- Thompson and Wilson 1994
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d. Analytical Solutions

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- Clark 1990, pp. 97-102
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(2) Computational and Numerical Techniques

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(5) Commitment and Time Consistency

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(6) Bang-Bang Control

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(7) Most Rapid Approach Paths

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(2) Stochastic Calculus

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(3) Blackwell's Theorem

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(4) Stochastic Dynamic Programming

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(5) Stochastic Optimal Control

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(6) Bounded and Unbounded Payoffs

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c. Testing Hotelling

(1) Valuation Principle

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(2) Price Paths

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(2) Growth Accounting

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(3) Valuing Resource Holdings

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b. Applied Benefit-Cost Analysis

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C. Policy

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(1) Establishing Rights

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- Townsend 1992

(2) Unitization of Common Pools

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b. Regulation

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- Bjorndal 1993

c. Taxes/Subsidies

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a. Market Structure

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b. Resource Security

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c. Trade

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d. Effects on Growth

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e. Effects on Distribution

(1) Cross-Sectional Distribution

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- Bull *et al.* 1994
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(2) Temporal Distribution and Sustainability

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(4) Coal

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- Fisher and Karp 1993
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(3) Opportunity Costs of Public Projects

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(4) Inter- vs. Intra-Generational Equity

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(2) Option Value

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(c) Supply Uncertainty

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(d) Empirical Applications

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(e) Nature of the Good

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(f) Dichotomous Choice vs. Open-Ended

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