

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)

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(a) Theory

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- (3) Backstops**
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- (4) Discount Rate Effects**
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- (5) Stochastic Time Horizons**
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- (6) Increasing Extraction Costs**
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- (7) Risk Aversion**
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- (8) Variable Technological Capabilities**
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- (10) Multiple Deposits**
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 - Weitzman 1976b
- (11) Multiple Uses/Users**
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(12) Recycling

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(13) Durables

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(14) Multi-Sector Economy

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(15) Imperfect Competition

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(b) Monopoly

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(c) Oligopoly

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2. Renewable Resources

a. Overview

(1) The Basic Model

(a) General

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(b) Basic Forests

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

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(2) Irreversible Investment

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- Charles 1983

(3) Limited Entry

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(4) Contracting

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(5) Enforcement

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(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

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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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(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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(4) Stochastic Dynamic Programming

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(6) Bounded and Unbounded Payoffs

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c. Testing Hotelling

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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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(2) Unitization of Common Pools

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b. Regulation

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- Bjorndal 1993

c. Taxes/Subsidies

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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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(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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(c) Closed-End Surveys

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(f) Dichotomous Choice vs. Open-Ended

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