U.S. Environmental Protection Agency

National Center For Environmental Research

# Science Topics: Economics and Decision Sciences - Background

**Background**

- What is the STAR Economics and Decision Sciences Program?
- How does NCER determine what research is needed?
- What are NCER's EDS Research goals?

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**What is the STAR Economics and Decision Sciences Program?**

The STAR Economics and Decision Sciencess (EDS) research program supports research by external social scientists that environmental decision-makers can use in real-world situations. The EDS program assists EPA in estimating costs and benefits of proposed actions, identifies costs savings of non-regulatory approaches, and assists in optimizing the use of its enforcement compliance resources. Behavioral research is important to developing effective solutions to environmental problems because the causes and remedies are behavioral in nature. Better understanding of polluter motivations and environmental values can improve the human and ecosystem health, decrease pollution control costs, and improve the efficiency and effectiveness of environmental policies.

From 1995 through 2001, NCER has partnered with the National Science Foundation (NSF) and worked independently to issue 12 RFAs. Together with NSF, EPA has provided more than $17 million to fund 108 research projects.

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**How does NCER determine what research is needed?**

**NCER's Economics and Decision Sciences Research is being performed under:**

- GPRA Goal 8: Provide a sound scientific basis to improve understanding of environmental risk and develop and implement innovative approaches for current and future environmental problems
- Objective 3: Emerging Risk Issues. By 2008, establish capability and mechanisms to anticipate or identify environmental or other changes that may portend future risk, integrate futures planning into ongoing programs and promote coordinated preparation for, and

NCER works with clients in EPA and elsewhere to identify the scientific questions that are of the highest interest, focus targeted competitive solicitations or requests for applications (RFAs) - on these topics, select the best and most useful peer-reviewed proposals, and disseminate the research results to a variety of audiences. Current EDS research results are helping environmental managers at all levels of government to estimate the costs and benefits of proposed actions, identify the cost-effectiveness of alternative regulatory and non-regulatory approaches, and optimize the use of enforcement and compliance resources.

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**What are NCER's EDS Research goals?**

The EDS program focuses research on topics where behavior has the greatest impact on environmental outcomes, and where our scientific understanding is in greatest need of improvement. NCER's EDS program has four specific long-term research goals:

1. Identify motivations for environmental behavior and decisions for different entities.
2. Develop reliable estimates of how people value environmental and health benefits with emphasis on children's health.
3. Identify the behavioral responses of different entities to various government interventions, including regulations, enforcement, and technical assistance.
4. Identify the socioeconomic causes and consequences of the potentially most significant long-term environmental issues and the tools for predicting and addressing these.

To answer these questions, we have four on-going RFAs including:

1. Valuation of Ecological and Health Benefits;
2. Corporate Environmental Behavior and the Effectiveness of Government Interventions,
3. Market Mechanisms and Incentives; and,
4. The Value and Use of Environmental Information.

response to change

- Sub-objective 001: Pollution Prevention and New Technology - Enhance the Environmental Protection Agency's capabilities to anticipate, understand, and respond to future environmental developments; conduct research in areas that combine human health and ecological considerations; and to conduct research in social science, environmental decision making, economic valuation, and estimation of environmental costs, risk, and benefits.

Specific focus areas within these RFAs change from year to year in response to newly identified needs and knowledge added by our existing research.

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# Science Topics: Economics and Decision Sciences: Solicitations

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- What is the current focus of our research?
- What were the areas of emphasis in NCER's past socioeconomic research solicitations?

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**What are some basic questions that we are trying to answer through our solicitations?**

1. What and how significant are the different motivations for environmental behavior (e.g., financial, reputation, ethics, etc) for different types of entities?
2. What are the likely behavioral responses of different entities to various government interventions, including regulations, enforcement, technical assistance and incentives?
3. How can programs be designed to take advantage of predictable behavioral responses to deliver cost-effective environmental protection through market forces?
4. What are the theoretical and methodological issues in developing reliable estimates of how people value environmental and health benefits as individuals or in groups?
5. What are the long term socio-economic trends and events that will have significant environmental effects; how can these effects be predicted and addressed?

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**What is the current focus of our research?**

NCER's current 2002 socio-economics program includes four solicitations:

**Corporate Environmental Behavior**

This category of solicitations covers the motivators of regulated entities' environmental behavior and performance, and assesses the influence of various governmental interventions.

**Questions we have tried to answer through past *Corporate Environmental Behavior* solicitations include:**

1. What determines environmental behavior or performance and compliance with environmental laws and regulations?
2. What are the relationships between environmental compliance behavior and performance, and facility or business characteristics such as management structure, size, profitability, corporate policies, etc.?

**Projects**

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**Market Mechanisms and Incentives**

These solicitations generally cover market-based mechanisms and other incentives for environmental management.

http://es.epa.gov/ncer/rfa/

**Decision Making and Valuation for Environmental Policy (with the National Science Foundation)**

http://es.epa.gov/ncer/rfa/02dmvep.html

This RFP Solicits proposals in three focus areas:

- ecosystems valuation, including methods improvements as well as ways to incorporate non-monetizable or non-quantifiable ecological information into environmental policy decisions;
- how to link individual with group or community valuation of environmental amenities; and community environmental decision-making in general;
- research on the costs and benefits, use and affects of environmental information in environmental decision-making

**Human Health Valuation**

http://es.epa.gov/ncer/rfa/02childrenval.html

This RFP is designed to promote research to enhance economic valuation of reducing environmental risks to children's health - including the willingness to pay (WTP) for reductions in (1) morbidity and (2) mortality risks to children's health. Health end points that may be addressed include: (a) childhood cancers, (b) incidence of food- or water-borne pathogenic illnesses, (c) developmental disorders; (d) respiratory illnesses; and (e) diseases, both fatal and non-fatal, that may manifest in adulthood as a result of childhood exposure to toxins or pathogens. Attributes that might be addressed may include include intelligence, fertility, functionality, mobility, and life expectancy. This research is expected to emphasize development of empirical research and data.

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**What were the areas of emphasis in NCER's past socioeconomic research solicitations?**

1995

**Valuation for Environmental Policy**

This competition

**More specific questions that EPA has tried to answer with the *Corporate Environmental Behavior* solicitations include:**

- What motivates companies to monitor, dissuade and punish poor environmental performance by their own facilities or non-compliant behavior by their employees?
- What motivates firms to attain environmental performance beyond that required by regulation?
- What organizational characteristics (e.g., centralized or decentralized environmental compliance responsibility) foster improved environmental performance and compliance?
- What (non-governmental) financial incentives exist to encourage compliance? Does pollution prevention really pay? How and in what circumstances do environmental compliance and performance contribute to the bottom line?

http://es.epa.gov/ncer/rfa/

emphasized research on methods of valuation of non-market environmental goods and services, especially ecosystems, using contingent valuation and other stated preference methods;

1996

**Decision Making and Valuation for Environmental Policy**

This competition was broadened to include valuation of non-cancer health benefits, and estimates of costs of alternative environmental policies including economic incentives;

1997, 1998, and 1999

**Decision-Making and Valuation for Environmental Policy**

These competitions emphasized research in five areas (1) cost estimation; (2) benefit estimation; (3) identification of the relationship between the economy and environmental quality; (4) ecosystem valuation; and (5) decision-making.

2000

**Valuation of Children's Health Effects**

This competition focused on valuation of children's health effects in two areas (1) parental and societal willingness to pay (WTP) for reductions in risks to children's health, and (2) improved transfer of benefits from existing adult-oriented analyses to children.

2000

**Market Mechanisms and Incentives for Environmental Management**

This competition offered in cooperation with the EPA Office of Policy and Innovation

**DMVEP Program**

- Costs of Environmental Programs: This area of research seeks to find and test integrated models and improved methods to estimate and validate aggregate and sectoral costs of environmental protection programs and policies.
- Ecosystem Valuation: Scientific advances in ecosystem research require a better understanding of the inter-connections among social, economic, physical, and biological systems. Research in this area identifies valuable ecosystem functions and focuses on how comprehensive and critical ecosystem changes can be measured in terms of social welfare.
- Benefits of Environmental Programs and Policies: This area of research seeks to develop methods to improve estimations of values of environmental protection programs and reductions in mortality and morbidity risks resulting from pollution and other environmental hazards.
- Decision-Making for Environmental Policy: This area of research examines the behavioral and institutional factors that influence the development, implementation, and evaluation of environmental policies. Improved understanding of these influences can lead to improvements in policy design and acceptability.

sought research projects on market-based mechanisms and other incentives for environmental management.

2000

**Corporate Environmental Performance and the Effectiveness of Government Interventions**

EPA in cooperation with DOJ/NIJ were interested in research that (1) identifies the determinants, or motivators, of regulated entities' environmental behavior and performance, and (2) assesses the influence of various governmental interventions on this behavior/performance.

2001

**Corporate Environmental Behavior: Examining the Effectiveness of Government Interventions and Voluntary Initiatives**

This solicitation succeeded the Corporate Environmental Performance and the Effectiveness of Government Intervention solicitation and continues to focus on the motivators behind adoption of environmentally sound business practices and the effects of government interventions on these motivators.

2001

**Market Mechanisms and Incentives for Environmental Management**

This RFA focused on market mechanisms and economic incentives was reissued for funding in January 2001.

2001

**Valuation of Environmental**

**Impacts on Human Health**

This RFA emphasized research that developed theoretical and/or empirical methods and data to better value (1) the health risks to children from environmental sources, or (2) health risks with delayed onset, severe and long-term health consequences, such as cancer.

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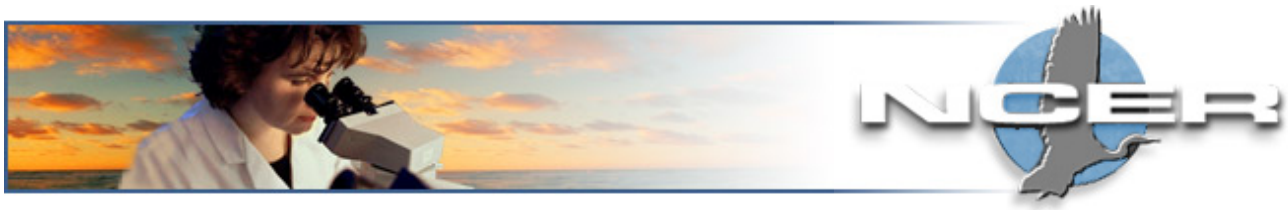






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**Grant Recipients**
(full list by category by year also see below)

**NSF/EPA - Decision Making and Valuation for Environmental Policy (DMVEP)**

| 1995 | 1996 | 1997 | 1998 | 1999 - 2000 | 2001 |

**Corporate Environmental Behavior**

| 2000 | 2001 |

**Human Health Valuation**

| 2000 | 2001 |

**Market Mechanisms and Incentives for Environmental Management**

| 2000 | 2001 |

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# Science Topics: Economics and Decision Sciences - Research Results

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### Results Used by EPA and Others

The economic and decision making research conducted by many STAR grantees is being used by EPA, state, and local governments and other researchers:

- Cost Benefit Analyses
- Conducting Stated Preference Surveys
- Cost Abatement Estimates
- Marketable Permits - Air Pollution Trades
- Land Preservation/Environmental Management
- Fast-track Programs
- Risk Reduction Valuation
- Wetlands Restoration
- Communication/Risk Perception

### Cost Benefit Analyses

- The recently published Guidelines for Preparing Economic Analyses (EPA, 2000), EPA's peer-reviewed guidance for cost-benefit and other economic analyses supporting rulemaking and policies, includes citations of 10 STAR supported socio-economic research publications from peer-reviewed journals (out of a total of about 60 STAR socio-economic projects completed at the time). These effectively will help guide policy development at EPA for the

foreseeable future.

Guidelines for Preparing Economic Analyses

- Herriges, et al's (Iowa State Univ.) research on valuing water quality improvements provided results that were used by EPA's Office of Water in preparing: "Economic, Environmental, and Benefits Analysis of the proposed Metal Products & Machinery Rule".

  Original Abstract
- Smith's (North Carolina State Univ.) STAR research on the effects of air pollution on property values was used as new evidence in planning for EPA's second prospective 812 cost-benefit study according to a staff review document. The same study was also referenced in the European Union's assessment of benefit measurement methods for valuing air pollution.

  Original Abstract
- Similarly, in the draft analytic plan prepared by EPA's Air Office, reviewed by the Science Advisory Board, Hammitt et al's (Harvard University) research on a contingent valuation approach to valuing mortality risk reductions provided the only two CV studies, of more than 80 studies reviewed, that met EPA-proposed quality criteria for use in the forthcoming (second) prospective Section 812 cost benefit study of the Clean Air Act.

  Original Abstract
- Gregory, et al (Decision Research), have undertaken STAR-supported empirical work on discounting of environmental, health and monetary goods. Because of its path-breaking nature and direct implications for benefit cost analysis, the researchers have been asked by several agencies to share initial results and to discuss their implications for ongoing analyses. Researchers have reported findings to the City of Seattle (King County, WA), the Conference Board of Canada, EPA's Superfund program and the National Estuary Program. Researchers are also incorporating new results into current work on hazardous and radiation waste cleanup options for the Department of Energy

  Original Abstract

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**Conducting Stated Preference Surveys**

- EPA's National Center for Environmental Economics in the Administrator's Office (NCEE) is in the early stages of developing a handbook for practitioners conducting stated preference surveys. The handbook will draw heavily on several published STAR grant results, notably Carson (U. Cal. San Diego).

  Original Abstract
- Carson's (U. Cal. San Diego) theoretical research into incentive-compatible formats for stated preference surveys is now being used by other, independent, researchers who will be developing surveys that will establish values for ecological resources (Hanemann, U.Cal Berkeley), and human health, including reducing fatal risks (DeShazo & Cameron, UCLA). This second-stage research will likely be very important to EPA and state policy analysts evaluating the costs and benefits of environmental programs. This illustrates how basic theoretical research supported by STAR influences a field of study, which ultimately is translated into empirical results that are used in policy development.

  Original Abstract
- Kanninen, (University of Minnesota) used a STAR grant to develop a theoretical (methodological) framework to improve the statistical efficiency of stated preference surveys, allowing researchers to develop statistically valid results using smaller sample sizes, which reduces the cost of conducting surveys. The method has been used in at least two other studies, one in a STAR grant studying the value of wetlands (Hoehn, Michigan State University), and, in a separate study, the attributes of Michigan bird-watching sites. This is demonstrative of how theoretical results ultimately make their way into policy-making

  Original Abstract

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**Cost Abatement Estimates**

- Gray & Shadbegian's (Clark University) research has reportedly

been used in EPA discussions with OMB about pollution abatement cost estimates in conjunction with the Thompson report - an annual OMB report to Congress on the overall costs of regulation. This research has also improved EPA's ability to interpret of the Census's Pollution Abatement and Control Expenditure data, and was included in briefings for the last EPA Administrator on the costs of environmental protection.

Original Abstract

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**Marketable Permits - Air Pollution Trades**

- STAR research on marketable permits for air pollution (Burtraw et al, Resources for the Future) in the presence of pre-existing taxes has been used by the Clean Air Markets Division of the Office of Air and Radiation, as well as the Departments of Treasury and Commerce to evaluate the impacts of carbon taxes and other air pollution trades. The investigators also have made presentations to the President's Council of Economic Advisors, state governments and the OECD, they also conducted a briefing for legislative and agency staff on capital hill and provided guidance to the Congressional Budget Office. One researcher was appointed to the Intergovernmental Panel on Climate Change (IPCC) as a result of this research. This research also has influenced two European countries to reevaluate their pollution tax policy proposals.

Original Abstract

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**Land Preservation/Environmental Management**

- EPA's Region 3 is initiating efforts to use the results of STAR research identifying cost-effective means to preserve migratory bird habitat (ReVelle, Johns Hopkins University) in several important ways throughout the mid-Atlantic region: 1. along with other information (e.g., weather information) Region 3 is using the study methods to alert the public and local governments about bird migration patterns, which will influence pesticide applications and

timing, land use decisions and NEPA applications; 2. Region 3 is using the information from this research to advise USDA and state environmental agencies to better select plant species used in streambank buffers to prevent nonpoint water pollution so they will also provide migratory bird habitat; and 3. Region 3 also is using this research to modify oil spill responses to better address migratory bird habitat protection.

Original Abstract

- EPA's region 3 also is intending to employ Bockstael's (Univ. of Maryland) research on the effectiveness of farmland preservation programs in its Mid-Atlantic Integrated Assessment Project

Original Abstract

- Swallow (University of Rhode Island) reports that his research is helping state and local officials (e.g., town planners), and non-profit organizations (e.g., land trusts) rank priorities for conservation dollars, and plan for management of urban sprawl This research has helped these groups improve their integration of public values for open space into new development. This researcher has been contacted by land developers from Florida, Washington state, and St. Louis County, who want to learn to use environmental impact fees to preserve open space.

Original Abstract

- In order to make effective stakeholder participation possible, Morgan, et al's (Carnegie Mellon) research developed comprehensible and comprehensive representations of the complex scientific and value issues involved in environmental management. The researchers also developed methodologies that allow thoughtful, unbiased deliberation by stakeholders. The researchers' approaches have been used in a number of relevant decision forums, include deliberations of EPA's Science Advisory Board and several highly visible committees of the National Academy of Science/National Research Council/Institute of Medicine.

Original Abstract

- As a result of his STAR grant research on fragmentation of habitat and shoreline development, another

grantee (Lemberg, Western Michigan University) was asked to review and revise a proposed shoreline development ordinance for Prairieville Township, Barry County, Michigan. Issues included setback of structures, height above shoreline, and width of shoreline vegetation buffer. He was also asked by the Gun River Watershed Project Steering Committee in Gun Plain Township, Allegan County, Michigan to do a field survey of a stretch of the Gun River to evaluate potential for native plant landscaping to mitigate stream bank erosion problems. He also has been receiving requests from lakeshore associations for consulting on lakeshore landscaping.

Original Abstract

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**Fast-track Programs**

- Krupnick and Blackman's (Resources for the Future) research on the efficiency of EPA's XL program has direct policy relevance for designing future "fast-track" programs. EPA's Office of Policy, Economics and Innovation has consulted the researchers regarding the results.

Original Abstract

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**Risk Reduction Valuation**

- Mortality risk reduction valuation research by STAR supported researchers (Krupnick, et al, Resources for the Future) was used by Health Canada, which proceeded to fund a similar study on Canadian population. In addition, this work led the European Community to fund a study of mortality risk valuation estimates in France, Britain, Spain, Germany and Italy. It also led Korean researchers who were working with EPA's International Office to do a mortality risk valuation study using the STAR researchers' instrument for a sample of Koreans. The Canadian study is significantly referenced in a recent report of the Royal Society of Canada (the NAS equivalent) evaluating the cost-benefit analysis performed by Environment Canada for the proposed changes to the PM standards.

Original Abstract

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**Wetlands Restoration**

- Opaluch's (University of Rhode Island) STAR research is being used by the state of Rhode Island to develop an approach to prioritize wetlands restoration projects. The researchers are coordinating with the State of Rhode Island Department of Environmental Management and Coastal Resources Management Council to use a public survey conducted under a STAR grant as input into their process to set priorities for restoration actions.

  Original Abstract

- The research team of Hulse, et al (Univ. of Oregon) have worked closely with the Willamette Restoration Initiative, a group appointed by Oregon's Governor Kitzhaber, to develop a restoration strategy for the Willamette River and surrounding lands. This restoration strategy was published and delivered to the Governor and legislature of Oregon in February 2001 (see http://www.oregonwri.org EXIT EPA). The first of 4 key recommendations by the group is to use the spatially-explicit restoration prioritization developed primarily through work by the PIs on this project.

  Original Abstract

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**Communication/Risk Perception**

- Werner's (Univ. of Utah) research into communication and household hazardous waste management behavior has been used by local government program managers to improve communications, often at a lower cost, that has resulted in improved management of household hazardous waste.

  Original Abstract

- One researcher (Fischhoff, Carnegie Mellon University) reports that as a result of his STAR supported research on risk perception and constructed preference, he has become involved with businesses, and state and local governments in negotiations involving pipeline siting, nuclear power plant siting, electricity deregulation, power

plant refueling, the anthrax vaccine, hazardous material labeling, and toxicity research reporting.

Original Abstract

- Beierle's, (Resources for the Future) survey of electronic participation mechanisms in state environmental agency websites was the most downloaded paper ever from Resources for the Future's website--around 6,000 copies in a month, with apparently high use by state agency staff. The project also led to the PI's involvement in an electronic dialogue that EPA just conducted on public participation in EPA decisions, which resulted in proposed pilot projects using these electronic dialogues as integral parts of public participation in rulemaking.

  Original Abstract

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The following searches relay NCER economics and decision projects by topical area:

Projects by Topical Area:

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Annual Review Workshops were designed to allow federal officials and Investigators to interact and for the significance the funded studies and preliminary findings to be discussed.

The following reports funded by EPA and NSF were conducted to determine if the DMVEP program is producing useful results and communicating them effectively. Results of the program are assessed and summarized, and a bibliometric analysis is also included:

Evaluation Report: "A Decision Making and Valuation for Environmental Policy Interim Assessment " (PDF)

Final Report: Interim Assessment for the Decision Making and Valuation for Environmental Policy Grants Program (PDF)

- Appendix A - Grants by Research Category

Topic and Methods (PDF)

- Appendix B - Publications Database for DMVEP Interim Assessment (PDF)
- Appendix C - DMVEP Research Grant Abstracts and Findings (PDF)

The following workshops provided a forum for investigators to interact with one another and with EPA, NSF, and other federal officials interested in valuation research.

Proceedings 1998 Decision-Making and Valuation for Environmental Policy Workshop (PDF)

Proceedings 1997 Decision-Making and Valuation for Environmental Policy Workshop (PDF)

# Science Topics: Economics and Decision Sciences - NCER Publications

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- **STAR Report #8**

This report describes economic and ecological research supported by EPA's STAR program to meet the needs for cost, benefit and valuation information to support environmental decision making.

- Research capsule being drafted
- State of Science Report underway: A report will be developed characterizing the state of the science in valuation and suggesting priority areas for investing research funds

**Environmental Decision Making and Economics**

Environmental policies and programs are intended to protect the health and well being of humans and ecosystems. Policies that protect the environment also provide economic value and other benefits to society. Federal environmental laws typically require some economic analyses to be conducted by implementing agencies.

Methods commonly used by economists to measure public values include revealed or stated preference methods and contingent valuation. Representatives of the public are surveyed, or choices made by individuals or supported by the public in local government forums are determined, to learn how various types of environmental protection have been valued. Measures used by ecologists to describe the functions and services of healthy ecosystems are also central to valuing the benefits of environmental protection. Each of these types of approach are furthered by research supported by the STAR program.

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# Science Topics: Economics and Decision Sciences - Other Related Research

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(Leave this question here - Thought there was a collection of CERI economic stuf on NCEE site - but can't find it - other suggestions?)

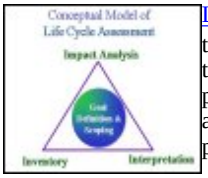
**Systems Analysis Branch**

The Systems Analysis Branch of the National Risk Management Research Laboratory (NRMRL) develops and demonstrates cost-effective decision making tools for use by public and private sectors. The tools integrate environmental solutions, life cycle concepts, value engineering, environmental engineering, economics, trade-offs, and pollution prevention factors.

**Simulation and Design**

Simulation and Design - this team develops computerized approaches to achieving environmentally beneficial changes in manufacturing processes and products.

**Life Cycle Assessment**




Life Cycle Assessment - this team is involved in the advance of LCA practice and application across the public and private sectors.

**Impact Assessment and Measurement (IAM)**

The IAM program focuses on the development and application of environmental impact assessment and progress measurement for environmental decision making.

**Environmental Engineering Economics**

Environmental Engineering Economics - this program provides scientists and decision makers information on NRML activities related to the cost and cost effectiveness of environmental technologies and risk management methods.

**Engineering Trade-Offs**

Engineering Trade-Offs team - this NRMRL team is tasked to develop a new integrated decision making approach to compare two or more states of being: a benchmark and an alternative, a change in a production process, alternative processes or products. Differences in engineering performance, , economic/cost efficiency, environmental burdens, and social resistence to change are highlighted.

**Tools Integration for Sustainable Development**

Tools Integration for Sustainable Development - This NRMRL team focuses on the identification, development, integration, and application of environmental decision making tools.

# Science Topics: Economics and Decision Sciences - Related EPA Research.

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## Office of Policy, Economics, and Innovation

The Office of Policy, Economics, and Innovation is EPA's primary policy arm which houses the National Center for Environmental Economics and groups innovative approaches to compliance including voluntary partnerships, market - based incentives, and new technologies.

### Innovative Approaches

Innovative Approaches relays numerous EPA programs that encourage voluntary actions into regulatory approaches including Partners for the environment, Project XL, Community Based programs and others.

## National Center for Environmental Economics

EPA's National Center for Environmental Economics (NCEE) conducts and supervises research and development on economic analytic methods; leads production of cross-Agency economic reports; provides guidance for performing economic analysis; promotes consistency in the preparation and presentation of economic information in the Agency. The Center prepares economic analyses under its own direction, and functions as an internal resource for other Agency offices

seeking information on benefit-cost research and techniques, economic impact models and measures, and economic incentive mechanisms. The Center also conducts research on environmental health issues in an effort to improve risk assessment data used in economic analyses and aid in the evaluation and design of environmental programs.

### Regulatory Economic Analyses Inventory

The Regulatory Economic Analyses Inventory is a searchable database of more than 1700 document descriptions with more than 50 downloadable EPA economic analysis reports, organized by assessment topics.

## Office of Pollution Prevention and Toxics (OPPT) - Economic Analysis

OPPT - Economic Analysis - This site relays the economic analyses conducted by EPA's Office of Pollution Prevention and Toxics as part of its decision making process, under TSCA, EPCRA, AHERA and ASHAA. The site includes market studies, financial feasibility studies, and industry sector studies.

**Design for the Environment (DfE)**

This site describes the Design for the Environment (DfE) program which is one of EPA's premier partnership programs, working with individual industry sectors to compare and improve the performance and human health and environmental risks and costs of existing and alternative products, processes, and practices.

## Pollution Prevention - Business Practices

The EPA's Pollution Prevention - Business Practices site describes several programs through which EPA promotes environmental stewardship to the business community via several programs that encourage businesses to incorporate environmental concerns into their standard financial and accounting practices.

## Office of Water - Water Quality Economics and Benefits

EPA's Office of Water program is designed to improve the data and methods used for estimating benefits of water quality programs instituted under the 1972 Clean Water Act.

## Safe Drinking Water

Safe Drinking Water - This site relays new cost benefit analyses for upcoming drinking water regulations. EPA is developing a new regulatory impact analysis framework for proposed drinking water regulations. The Safe Drinking Water Act, as amended in 1996, requires that whenever EPA proposes a national primary drinking water regulation, EPA must publish a cost-benefit analysis. Components of the analysis include treatment design, unit treatment costs and national costs, model systems development, baseline estimates, data quality objectives, and benefits analysis.

**Allowance Trading**

Allowance Trading - Site describes how to use the allowance trading system for sulfer dioxide air emissions. Allowance trading is the centerpiece of EPA's Acid Rain Program, and allowances are the currency with which compliance with the SO2 emissions requirements is achieved. Through the market-based allowance trading system, utilities regulated under the program, rather than a governing agency, decide the most cost-effective way to use available resources to comply with the acid rain requirements of the Clean Air Act. Utilities can reduce emissions by employing energy conservation measures, increasing reliance on renewable energy, reducing usage, employing pollution control technologies, switching to lower sulfur fuel, or developing other alternate strategies. Units that reduce their emissions below the number of allowances they hold may trade allowances with other units in their system, sell them to other utilities on the open market or through EPA auctions, or bank them to cover emissions in future years. Allowance trading provides incentives for energy conservation and technology innovation that can both lower the cost of compliance and yield pollution prevention benefits.

## Clean Air Act - Cost Benefit Analyses

Clean Air Act - Cost Benefit Analyses - Relays the cost benefit analyses related to the Clean Air Act.

**Air Quality Management - Cost Benefit Analyses**

Air Quality Management - Cost Benefit Analyses - Relays information on cost benefit analysis of air quality management strategies and new methods for assessing benefits costs and market assessments associated with the National Emission Standard programs and State and local air

pollution control programs.

### Root Causes of Non-compliance

Root Causes of Non-compliance - From 1996 through 1998, EPA and the Chemical Manufacturers Association (CMA) worked together to pilot an approach for identifying and evaluating the root causes (that is, underlying causes) of noncompliance with regulatory requirements, to identify recommendations for improving compliance, and to provide insight into the effect of environmental management systems (EMS) on compliance. This site relays the details of this report.

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# Science Topics: Economics and Decision Sciences - External Partnership Projects

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**Recipients and their Research Projects**

**Research Results**

**Research By Topic**

**Program Reviews and Evaluations**

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**Related ORD Research**

**Related EPA Research**

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## National Science Foundation DMVEP Program

This is the National Science Foundation's DMVEP Program site EXIT disclaimer . The National Science Foundation (NSF) and the Environmental Protection Agency (EPA) have jointly supported extramural grant activities in this field since fiscal year 1995. DMVEP encourages research that will contribute to the development of practical, credible approaches for estimating the benefits and costs of environmental programs and improving decision making about environmental issues.

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# Science Topics: Economics and Decision Sciences - Research Results

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- Workshops and Conferences

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**Related EPA Research**

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**NSF/EPA - Decision Making and Valuation for Environmental Policy (DMVEP)**

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# Science Topics: Economics and Decision Sciences - Research Results

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**Workshops and Conferences**

NCER and NCEE have jointly sponsored a series of social science research workshops, with six topical workshops that present STAR grant and other research taking place from Fall 1998 through Fall 2000. These workshops included:

- *Valuing and Managing Ecosystems*
- *Valuing Health for Environmental Policy with Special Emphasis on Children's Health Issues*
- *Economic Research and Policy Concerning Water Use and Watershed Management*
- *Community Based Environmental Decision-Making*
- *Stated Preference: What do we know? Where do we go?*
- *Economic Analysis and Land Use Policy*

* Beyond Compliance

Two workshops are planned each year for the next few years. The format of the workshops includes research presentation and discussions by EPA and external parties. Proceedings, including discussions, are available on the web (see at: http://www.epa.gov/economics/ link to Workshop Series, Past Workshops, Proceedings).

NCER also co-sponsored a research symposium with EPA's Office of Enforcement and Compliance Assurance and Department of Justice's National Institute of Environmental Justice (NIJ) and Environmental and Natural Resources Division. The symposium, in May 1998, hosted the pre-eminent researchers in the field of deterrence and enforcement effectiveness and resulted in the establishment of a new STAR grant program in 2000, Corporate Environmental Behavior and the Effectiveness of Government Intervention.

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# Science Topics: Economics and Decision Sciences - Research Results

| Number | Identifier | Abstract | Annual/ Final Reports | Pubs Count | Proposed Start Date |
|---|---|---|---|---|---|
| 1 | R824671 | Environmental Values and National Economic Accounts | 1997 Final | Total Pubs: 1 | October 1995 - June 1997 |
| 2 | R824310 | How People Respond to Contingent Valuation Questions | 1997 Final | -- No Pubs -- | October 1995 - April 1998 |
| 3 | R824711 | Mortality Risk Valuation And Stated Preference Methods: An Exploratory Study | 1997 Final | | October 1995 - September 1997 |
| 4 | R824693 | Towards a Social Psychology of Stated Preferences | 1997 Final | Total Pubs: 4<br>Journals: 4<br>-- No Books -- | October 1995 - December 1999 |
| 5 | R824710 | Valuing Environmental Damages with Stated Preference Methods New Approaches that Yield Demonstrably Valid Values for Non-Priced Environmental Goods | 1997 | | November 1995 - October 1996 |
| 6 | R824698 | Comparative Studies of Approaches to Eliciting Economic Values | 1997 Final | Total Pubs: 9<br>-- No Journals --<br>-- No Books -- | October 1995 - September 1997 |
| 7 | R824679 | Preference Formation and Elicitation in Valuing Non-Market Goods | 1997 | | October 1995 - September 1997 |
| 8 | R824706 | Eliciting Environmental Values A Constructivist Approach | 1997 Final | Total Pubs: 10<br>Journals: 2<br>-- No Books -- | October 1995 - September 1997 |
| 9 | R824699 | Innovation in the Valuation of Ecosystems A Forest Application | 1997 Final | Total Pubs: 5 | October 1995 - September 1997 |
| 10 | R824707 | Deriving Biodiversity Option Value Within a Model of Biotechnology Research and Development | 1997 Final | Total Pubs: 11<br>-- No Journals --<br>-- No Books -- | October 1995 - September 1997 |
| 11 | R824709 | Developing Conjoint Stated Preference Methods for Valuation of Environmental Resources Within Their Ecological Context | 1997 | | October 1995 - September 1997 |
| 12 | R824687 | Improving Willingness-to-Accept Responses Using Alternate Forms of Compensation | 1997 Final | Total Pubs: 1<br>-- No Journals --<br>-- No Books -- | October 1995 - April 1997 |
| 13 | R824886 | Measuring Societal Perceptions, Attitudes, and Economic Benefits of Ecological Integrity and Biodiversity by Extending Contingent Valuation Method Surveys | 1997 Final | Total Pubs: 6 | July 1996 - April 1999 |
| 14 | R824688 | Can Contingent Valuation Measure Passive Use Values | 1997 | -- No Pubs -- | October 1995 - September 1997 |
| 15 | R824705 | Valuing the Stock and Flow of Mineral and Renewable Assets in National Income Accounting | 1997 | | October 1995 - September 1997 |

# Science Topics: Economics and Decision Sciences - Research Results

| Number | Identifier | Abstract | Annual/ Final Reports | Pubs Count | Proposed Start Date |
|---|---|---|---|---|---|
| 1 | R825313 | Effective Environmental Policy in the Presence of Distorting Taxes | 1997<br>1998<br>Final | Total Pubs: 74<br>Journals: 13<br>Books: 3 | October 1996 - September 1998 |
| 2 | R825311 | Decision-Making under Uncertainty in the Conservation of Biological Diversity | 1997<br>Final | Total Pubs: 13<br>Journals: 10<br>-- No Books -- | October 1996 - October 1998 |
| 3 | R825308 | Valuing Reductions in Environmental Sources of Infertility Risk Using the Efficient Household Framework | 1997<br>Final | Total Pubs: 5<br>Journals: 1 | October 1996 - September 1997 |
| 4 | R825307 | Stated Preference Valuation Using Real Money for Real Forested Wetlands | 1997<br>1999 | Total Pubs: 5<br>Journals: 1<br>-- No Books -- | October 1996 - October 1998 |
| 5 | R825310 | Updating Prior Methods for Non-Market Valuation A Bayesian Approach to Combining Disparate Sources of Environmental Values | 1997<br>1998<br>Final | Total Pubs: 10<br>Journals: 3 | October 1996 - September 1998 |
| 6 | R825312 | Valuation of Risks to Human Health Insensitivity to Magnitude? | 1997<br>1998<br>1999<br>Final | Total Pubs: 34<br>Journals: 6<br>-- No Books -- | October 1996 - October 1999 |
| 7 | R825309 | Ecosystem Valuation Policy Applications for the Patuxent Watershed Ecological-Economics Model | 1997<br>Final | Total Pubs: 36<br>Journals: 5<br>Books: 1 | January 1997 - December 1998 |

# Science Topics: Economics and Decision Sciences - Research Results

| Number | Identifier | Abstract | Annual/ Final Reports | Pubs Count | Proposed Start Date |
|---|---|---|---|---|---|
| 1 | R825825 | A Decision Analysis Framework for Groundwater Remediation | 1999<br>Final | Total Pubs: 24<br>Journals: 4 | October 1997 - September 2000 |
| 2 | R825822 | Establishing correlations between upland forest management practices and the economic consequences of stream turbidity in municipal supply watersheds | 2000 | Total Pubs: 3<br>-- No Journals --<br>-- No Books -- | October 1997 - September 2000 |
| 3 | R825995 | Stigma of Environmental Damage on Residential Property Values | Final | Total Pubs: 5 | October 1997 - August 1998 |
| 4 | R825996 | Delineating Optimal Wetland Habitat Corridors for Inclusion in Migratory Flyways | 1999<br>Final | Total Pubs: 3<br>Journals: 1<br>-- No Books -- | October 1997 - September 1999 |
| 5 | R825821 | Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework | 1999 | | October 1997 - September 2000 |
| 6 | R825826 | Improving Air Quality Benefit Estimates from Hedonic Models | 1998<br>Final | Total Pubs: 8<br>Journals: 2<br>Books: 1 | October 1997 - September 1998 |
| 7 | R825827 | Promoting Proper Use of a Household Hazardous Waste Facility: A System Approach | 1998<br>1999<br>Final | Total Pubs: 18<br>Books: 3 | October 1997 - December 1998 |
| 8 | R825824 | A Comparison of Direct Methods for Valuing Environmental Policies: A Case Study in New Hampshire's White Mountains | 1998<br>1999<br>Final | Total Pubs: 21<br>Journals: 3<br>-- No Books -- | October 1997 - September 1999 |

# 1998 Decision Making and Valuation for Environmental Policy STAR Recipients

**Abstracts** | Publications

| Number | Identifier | Abstract | Principal Investigator | Proposed Start Date |
|---|---|---|---|---|
| 1 | R826612 | Market Valuation Models and Ecosystem Management in Making Legal and Policy Choices | Salzman, James<br>Ehrlich, Paul<br>Daily, Gretchen<br>Daly, Herman<br>King, Dennis<br>Ruhl, J. B.<br>Fischman, Robert | June 1998 - December 1999 |
| 2 | R826608 | The Valuation of Mortality Risk Reductions: Application of Two New Survey Instruments | Krupnick, Alan J.<br>Cropper, Maureen<br>Alberini, Anna<br>Belli, Robert<br>Simon, Nathalie | October 1998 - September 2000 |
| 3 | R826617 | The Impact of Farmland Preservation Programs | Bockstael, Nancy<br>Nickerson, Cynthia J. | October 1998 - September 1999 |
| 4 | R826615 | An Examination of Utility Consistent Approaches to Modeling Corner Solutions in Recreation Demand | Herriges, Joseph A.<br>Kling, Catherine L.<br>Phaneuf, Daniel J. | September 1998 - August 2001 |
| 5 | R826611 | Assessing Preferences for Environmental Decisions with Long-Term Consequences | Keller, Robin<br>Eppel, Thomas | July 1998 - June 2000 |
| 6 | R826614 | Multi-Objective Decision-Making for Environmental Remediation | Mayer, Alex<br>Horn, Jeff<br>Enfield, Carl | September 1998 - August 2001 |
| 7 | R826619 | Land and Management with Biological and Economic Objectives | Montgomery, Claire<br>Arthur, Jeffrey L.<br>Polasky, Steve | October 1998 - December 2000 |
| 8 | R826610 | Environmental Policy and Endogenous Technical Change: A Theoretical & Empirical Analysis | Opaluch, James J.<br>Jin, Di<br>Grigalunas, Thomas A. | October 1998 - September 2001 |
| 9 | R826609 | The Role of Locational Equilibria and Collective Behavior in Measuring the Benefits of Air Pollution Policies | Smith, V. Kerry<br>Sieg, Holger | September 1998 - August 2001 |
| 10 | R826616 | Estimating the Cost of Carbon Sequestration in Global Forests | Sohngen, Brent<br>Mendelsohn, Robert<br>Sedjo, Roger | September 1998 - August 2000 |
| 11 | R826618 | Environmental Labeling of Electricity: Label Design and Performance | Teisl, Mario F. | September 1998 - August 2000 |

# 1999 Decision Making and Valuation for Environmental Policy STAR Recipients

| Number | Identifier | Abstract | Annual/ Final Reports | Pubs Count | Proposed Start Date |
|---|---|---|---|---|---|
| 1 | R827919 | Business-led Environmental Management: Economic Incentives and Environmental Implications | 2000 | Total Pubs: 4<br>Journals: 1 | December 1999 - December 2001 |
| 2 | R827918 | Voluntary Environmental Standards: Furthering Moral Suasion While Preventing Moral Hazard | 2000 | Total Pubs: 21<br>Journals: 1<br>-- No Books -- | September 1999 - October 2001 |
| 3 | R827987 | Optimal Experimental Design for Nonmarket Choice Experiments | 2000 | Total Pubs: 3<br>Journals: 1 | January 2000 - June 2002 |
| 4 | R827972 | Over-compliance in Point Source Water Pollution | No Annual Reports | -- No Pubs -- | December 1999 - December 2000 |
| 5 | R827920 | Continued Development of Methods for Characterizing and Ranking Health, Safety, and Environmental Risks | 2000 | Total Pubs: 10 | December 1999 - December 2001 |
| 6 | R827922 | Web-Based Methods for Valuing Wetland Services | 2000 | Total Pubs: 3<br>-- No Journals --<br>-- No Books -- | October 1999 - September 2002 |
| 7 | R827921 | Indicators of Ecosystem Value: Deriving Units of Exchange for Habitat Trades, Banking, and Preservation Priorities | 2000 | | September 1999 - December 2001 |
| 8 | R827931 | Understanding Observed Differences in Time-Preference Rates | 2000 | Total Pubs: 6<br>-- No Journals --<br>-- No Books -- | September 1999 - September 2001 |
| 9 | R827932 | An Integrated Modeling Framework for Analyzing Wetlands Policies | 2000 | Total Pubs: 1 | October 1999 - September 2002 |

# 2000 Corporate Environmental Performance and the Effectiveness of Government Interventions STAR Recipients

**Abstracts** | Publications

| Number | Identifier | Abstract | Principal Investigator | Proposed Start Date |
|---|---|---|---|---|
| 1 | R828826 | Organizational Structures, Citizen Participation, and Corporate Environmental Performance | Grant, Don | June 2001 - May 2002 |
| 2 | R828824 | Determinants of Environmental Compliance: Plant, Firm, and Enforcement Factors | Gray, Wayne B.<br>Shadbegian, Ronald J. | May 2001 - April 2004 |
| 3 | R828828 | "Shaping Corporate Environmental Behavior and Performance: The Impact of Enforcement and Non-Enforcement Tools" | Earnhart, Dietrich H.<br>Haider-Markel, Donald<br>Ebihara, Tatsuji<br>Glicksman, Robert | March 2001 - March 2004 |
| 4 | R828827 | Tracking Deterrent Messages in Environmental Enforcement | Kagan, Robert A.<br>Gunningham, Neil<br>Thornton, Dorothy | June 2001 - May 2003 |
| 5 | R828825 | Normative, Social, and Calculated Motivations for Compliance: Marine Facilities and Water Pollution | May, Peter J. | June 2001 - June 2004 |

# 2000 Market Mechanisms and Incentives for Environmental Management STAR Recipients

Abstracts | Publications

Check All

| Number | Identifier | Abstract | Principal Investigator | Proposed Start Date |
|---|---|---|---|---|
| 1 | R828721 | Evaluating the Dissemination and Impact of Toxics Release Inventory Data | Vasu, Michael<br>Atlas, Mark<br>Dimock, Michael | December 2000 - November 2002 |
| 2 | R828626 | Introducing Markets for Green Products: Product Demand, Environmental Quality & Economic Welfare | Moore, Michael R.<br>Kotchen, Matthew J. | January 2001 - December 2002 |
| 3 | R828627 | Testing the Potential to Implement Collective Enforcement Agreements in Point-Nonpoint Source Pollution Trading and Voluntary Incentive Agreements | Sohngen, Brent<br>Randall, Alan | September 2000 - August 2002 |
| 4 | R828631 | Multi-Lateral Emissions Trading: Political Economy and Firm Response | Farrell, Alex<br>Dowlatabadi, Hadi<br>Epple, Dennis<br>Farrow, Scott | September 2000 - August 2002 |
| 5 | R828628 | Efficiency and Distributional Consequences of the Allocation of Tradable Emission Allowances | Burtraw, Dallas<br>Fischer, Carolyn<br>Pizer, Billy | October 2000 - September 2002 |
| 6 | R828629 | Designing Incentives that Strengthen Local Capacity for Land Development with Open Space and Healthy Ecosystems: Environmental Impact Fees | Swallow, Stephen K. | January 2001 - February 2003 |
| 7 | R828630 | Evaluation of Phase II Compliance with Title IV of the 1990 Clean Air Act Amendments | Ellerman, A. Denny<br>Joskow, Paul L.<br>Schmalensee, Richard<br>Montero, Juan Pablo | October 2000 - March 2003 |

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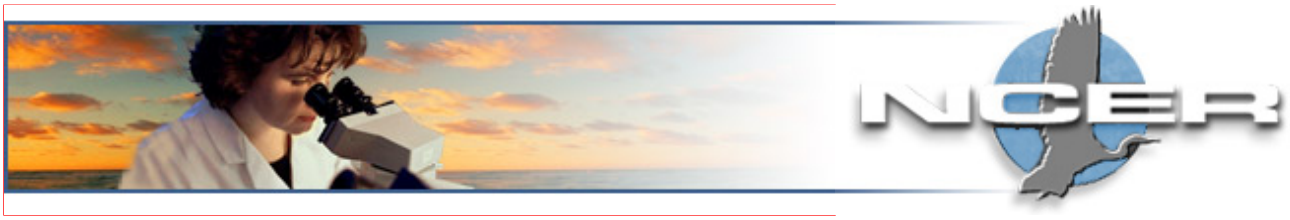




# 1995 Valuation and Environmental Policy STAR Recipients

Abstracts | Publications

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| Number | Add to Report? | Identifier | Abstract | Principal Investigator | Proposed Start Date |
|---|---|---|---|---|---|
| 1 | ☐ | R824671 | Environmental Values and National Economic Accounts | Flores, Nicholas E. | October 1995 - June 1997 |
| 2 | ☐ | R824310 | How People Respond to Contingent Valuation Questions | Payne, John W.<br>Desvouges, William H.<br>Schkade, David A. | October 1995 - April 1998 |
| 3 | ☐ | R824711 | Mortality Risk Valuation And Stated Preference Methods: An Exploratory Study | Krupnick, Alan J.<br>Cropper, Maureen<br>Alberini, Anna<br>Belli, Robert<br>Simon, Nathalie | October 1995 - September 1997 |
| 4 | ☐ | R824693 | Towards a Social Psychology of Stated Preferences | Dietz, Thomas<br>Guagnano, Gregory A.<br>Stern, Paul C. | October 1995 - December 1999 |
| 5 | ☐ | R824710 | Valuing Environmental Damages with Stated Preference Methods New Approaches that Yield Demonstrably Valid Values for Non-Priced Environmental Goods | Cummings, Ronald G.<br>Osborne, Laura L.<br>Pate, James<br>Brewer, Paul | November 1995 - October 1996 |
| 6 | ☐ | R824698 | Comparative Studies of Approaches to Eliciting Economic Values | Carson, Richard T.<br>Groves, Theodore<br>Machina, Mark J. | October 1995 - September 1997 |
| 7 | ☐ | R824679 | Preference Formation and Elicitation in Valuing Non-Market Goods | Brookshire, David S.<br>Berrens, Robert<br>Ganderton, Philip<br>McKee, Michael<br>Jenkins, Hank<br>Kaplan, Hillard | October 1995 - September 1997 |
| 8 | ☐ | R824706 | Eliciting Environmental Values A Constructivist Approach | Fischhoff, Baruch | October 1995 - September 1997 |
| 9 | ☐ | R824699 | Innovation in the Valuation of Ecosystems A Forest Application | Russell, Clifford<br>Dale, Virginia | October 1995 - September 1997 |
| 10 | ☐ | R824707 | Deriving Biodiversity Option Value Within a Model of Biotechnology Research and Development | Rausser, Gordon C. | October 1995 - September 1997 |
| 11 | ☐ | R824709 | Developing Conjoint Stated Preference Methods for Valuation of Environmental Resources Within Their Ecological Context | Opaluch, James J.<br>Swallow, Stephen K. | October 1995 - September 1997 |
| 12 | ☐ | R824687 | Improving Willingness-to-Accept Responses Using Alternate Forms of Compensation | Mansfield, Carol<br>Houtven, George Van<br>Huber, Joel | October 1995 - April 1997 |
| 13 | ☐ | R824886 | Measuring Societal Perceptions, Attitudes, and Economic Benefits of Ecological Integrity and Biodiversity by Extending Contingent Valuation Method Surveys | Loomis, John<br>Fausch, Kurt<br>Covich, Alan<br>Kent, Paula<br>Strange, Liz | July 1996 - April 1999 |

| | | | | | |
|---|---|---|---|---|---|
| 14 | ☐ | R824688 | Can Contingent Valuation Measure Passive Use Values | Schulze, William<br>Poe, Gregory<br>Kahneman, Daniel<br>Cameron, Trudy<br>Brown, Gardner<br>McClelland, Gary | October 1995 - September 1997 |
| 15 | ☐ | R824705 | Valuing the Stock and Flow of Mineral and Renewable Assets in National Income Accounting | Davis, Graham | October 1995 - September 1997 |

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- ☑ EPA Representative
- ☑ Proposed Start Date
- ☐ Region
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The perspectives, information and conclusions conveyed in research project abstracts, progress reports, final reports, journal abstracts and journal publications convey the viewpoints of the principal investigator and may not represent the views and policies of ORD and EPA. Conclusions drawn by the principal investigators have not been reviewed by the Agency.

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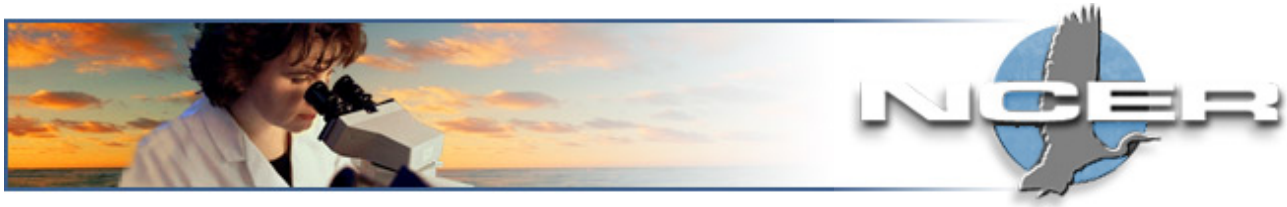




# 1996 Decision Making and Valuation for Environmental Policy STAR Recipients

Abstracts | Publications

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| Number | Add to Report? | Identifier | Abstract | Principal Investigator | Proposed Start Date |
|---|---|---|---|---|---|
| 1 | ☐ | R825313 | Effective Environmental Policy in the Presence of Distorting Taxes | Burtraw, Dallas<br>Parry, Ian<br>Goulder, Lawrence | October 1996 - September 1998 |
| 2 | ☐ | R825311 | Decision-Making under Uncertainty in the Conservation of Biological Diversity | Solow, Andrew R.<br>Camm, Jeffrey<br>O'Connor, Raymond<br>Csuti, Blair<br>Polasky, Steve | October 1996 - October 1998 |
| 3 | ☐ | R825308 | Valuing Reductions in Environmental Sources of Infertility Risk Using the Efficient Household Framework | Houtven, George Van<br>Smith, V. Kerry | October 1996 - September 1997 |
| 4 | ☐ | R825307 | Stated Preference Valuation Using Real Money for Real Forested Wetlands | Swallow, Stephen K.<br>Paton, Peter | October 1996 - October 1998 |
| 5 | ☐ | R825310 | Updating Prior Methods for Non-Market Valuation A Bayesian Approach to Combining Disparate Sources of Environmental Values | Herriges, Joseph A.<br>Kling, Catherine L. | October 1996 - September 1998 |
| 6 | ☐ | R825312 | Valuation of Risks to Human Health Insensitivity to Magnitude? | Hammitt, James K.<br>Graham, John<br>Hanemann, Michael<br>Corso, Phaedra | October 1996 - October 1999 |
| 7 | ☐ | R825309 | Ecosystem Valuation Policy Applications for the Patuxent Watershed Ecological-Economics Model | Geoghegan, Jacqueline | January 1997 - December 1998 |

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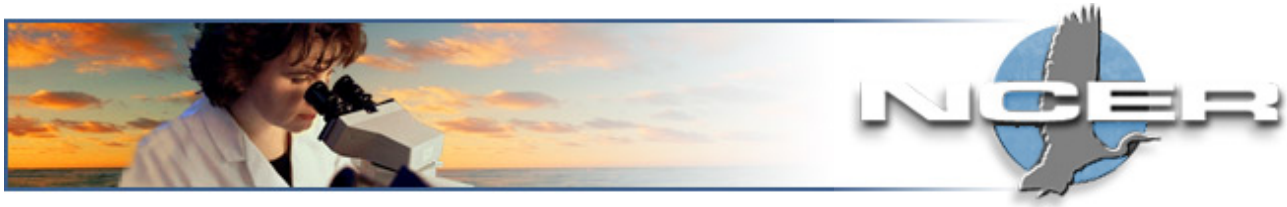




# 1997 Decision-making and Valuation for Environmental Policy STAR Recipients

Abstracts | Publications

Check All

| Number | Add to Report? | Identifier | Abstract | Principal Investigator | Proposed Start Date |
|---|---|---|---|---|---|
| 1 | ☐ | R825825 | A Decision Analysis Framework for Groundwater Remediation | Harvey, Charles F. | October 1997 - September 2000 |
| 2 | ☐ | R825822 | Establishing correlations between upland forest management practices and the economic consequences of stream turbidity in municipal supply watersheds | Hulse, David<br>Whitelaw, E.<br>Grant, Gordon | October 1997 - September 2000 |
| 3 | ☐ | R825995 | Stigma of Environmental Damage on Residential Property Values | Rausser, Gordon C. | October 1997 - August 1998 |
| 4 | ☐ | R825996 | Delineating Optimal Wetland Habitat Corridors for Inclusion in Migratory Flyways | ReVelle, Charles<br>Boland, John<br>Snyder, Stephanie<br>Williams, Justin<br>Malcolm, Scott<br>Bain, Daniel | October 1997 - September 1999 |
| 5 | ☐ | R825821 | Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework | Krupnick, Alan J.<br>Shih, Jhih-Shyang<br>Krupnick, Alan J.<br>Shih, Jhih-Shyang<br>Russell, Armistead G. | October 1997 - September 2000 |
| 6 | ☐ | R825826 | Improving Air Quality Benefit Estimates from Hedonic Models | Thayer, Mark<br>Murdoch, James C.<br>Beron, Kurt | October 1997 - September 1998 |
| 7 | ☐ | R825827 | Promoting Proper Use of a Household Hazardous Waste Facility: A System Approach | Werner, Carol M. | October 1997 - December 1998 |
| 8 | ☐ | R825824 | A Comparison of Direct Methods for Valuing Environmental Policies: A Case Study in New Hampshire's White Mountains | Halstead, John M.<br>Stevens, Thomas H.<br>Hill, L. Bruce | October 1997 - September 1999 |

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# 1998 Decision Making and Valuation for Environmental Policy STAR Recipients

Abstracts | Publications

Check All

| Number | Add to Report? | Identifier | Abstract | Principal Investigator | Proposed Start Date |
|---|---|---|---|---|---|
| 1 | ☐ | R826612 | Market Valuation Models and Ecosystem Management in Making Legal and Policy Choices | Salzman, James<br>Ehrlich, Paul<br>Daily, Gretchen<br>Daly, Herman<br>King, Dennis<br>Ruhl, J. B.<br>Fischman, Robert | June 1998 - December 1999 |
| 2 | ☐ | R826608 | The Valuation of Mortality Risk Reductions: Application of Two New Survey Instruments | Krupnick, Alan J.<br>Cropper, Maureen<br>Alberini, Anna<br>Belli, Robert<br>Simon, Nathalie | October 1998 - September 2000 |
| 3 | ☐ | R826617 | The Impact of Farmland Preservation Programs | Bockstael, Nancy<br>Nickerson, Cynthia J. | October 1998 - September 1999 |
| 4 | ☐ | R826615 | An Examination of Utility Consistent Approaches to Modeling Corner Solutions in Recreation Demand | Herriges, Joseph A.<br>Kling, Catherine L.<br>Phaneuf, Daniel J. | September 1998 - August 2001 |
| 5 | ☐ | R826611 | Assessing Preferences for Environmental Decisions with Long-Term Consequences | Keller, Robin<br>Eppel, Thomas | July 1998 - June 2000 |
| 6 | ☐ | R826614 | Multi-Objective Decision-Making for Environmental Remediation | Mayer, Alex<br>Horn, Jeff<br>Enfield, Carl | September 1998 - August 2001 |
| 7 | ☐ | R826619 | Land and Management with Biological and Economic Objectives | Montgomery, Claire<br>Arthur, Jeffrey L.<br>Polasky, Steve | October 1998 - December 2000 |
| 8 | ☐ | R826610 | Environmental Policy and Endogenous Technical Change: A Theoretical & Empirical Analysis | Opaluch, James J.<br>Jin, Di<br>Grigalunas, Thomas A. | October 1998 - September 2001 |
| 9 | ☐ | R826609 | The Role of Locational Equilibria and Collective Behavior in Measuring the Benefits of Air Pollution Policies | Smith, V. Kerry<br>Sieg, Holger | September 1998 - August 2001 |
| 10 | ☐ | R826616 | Estimating the Cost of Carbon Sequestration in Global Forests | Sohngen, Brent<br>Mendelsohn, Robert<br>Sedjo, Roger | September 1998 - August 2000 |
| 11 | ☐ | R826618 | Environmental Labeling of Electricity: Label Design and Performance | Teisl, Mario F. | September 1998 - August 2000 |

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- [x] Identifier Code
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- [x] Principal Investigator
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- [x] Institution
- [x] Publication Count
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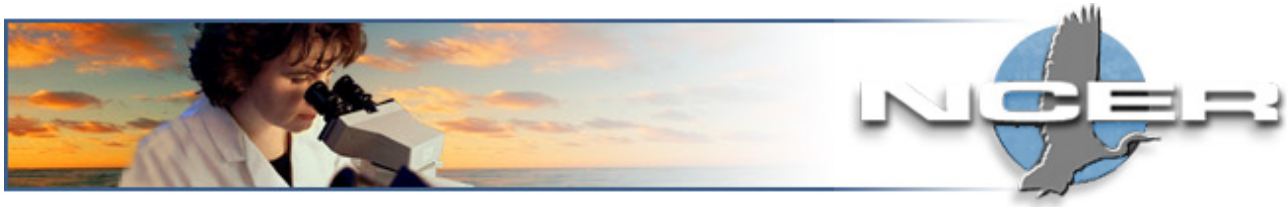




# 1999 Decision-making and Valuation for Environmental Policy STAR Recipients

Abstracts | Publications

Check All

| Number | Add to Report? | Identifier | Abstract | Principal Investigator | Proposed Start Date |
|---|---|---|---|---|---|
| 1 | ☐ | R827919 | Business-led Environmental Management: Economic Incentives and Environmental Implications | Khanna, Madhu<br>Thurston, Deborah | December 1999 - December 2001 |
| 2 | ☐ | R827918 | Voluntary Environmental Standards: Furthering Moral Suasion While Preventing Moral Hazard | King, Andrew<br>Radner, Roy R.<br>Lenox, Michael<br>Terlaak, Ann<br>Barnett, Michael<br>Shaver, James Myles | September 1999 - October 2001 |
| 3 | ☐ | R827987 | Optimal Experimental Design for Nonmarket Choice Experiments | Kanninen, Barbara J. | January 2000 - June 2002 |
| 4 | ☐ | R827972 | Over-compliance in Point Source Water Pollution | Horowitz, John K. | December 1999 - December 2000 |
| 5 | ☐ | R827920 | Continued Development of Methods for Characterizing and Ranking Health, Safety, and Environmental Risks | Morgan, Granger<br>Dekay, Michael<br>Fischbeck, Paul | December 1999 - December 2001 |
| 6 | ☐ | R827922 | Web-Based Methods for Valuing Wetland Services | Hoehn, John P.<br>Lupi, Frank<br>Kaplowitz, Michael D. | October 1999 - September 2002 |
| 7 | ☐ | R827921 | Indicators of Ecosystem Value: Deriving Units of Exchange for Habitat Trades, Banking, and Preservation Priorities | Boyd, James<br>Simpson, R. David | September 1999 - December 2001 |
| 8 | ☐ | R827931 | Understanding Observed Differences in Time-Preference Rates | Gregory, Robin<br>Slovic, Paul<br>Knetsch, Jack<br>Lichtenstein, Sarah<br>Finucane, Melissa<br>Peters, Ellen<br>Arvai, Joseph<br>Burns, Katie | September 1999 - September 2001 |
| 9 | ☐ | R827932 | An Integrated Modeling Framework for Analyzing Wetlands Policies | Weinberg, Marca<br>Wilen, James<br>Quinn, James | October 1999 - September 2002 |

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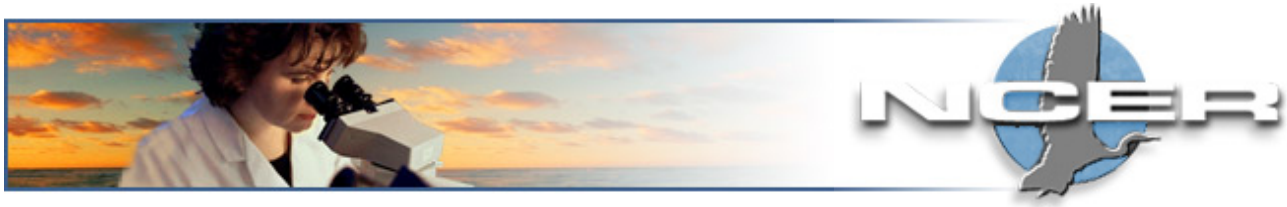




# 2001 Decision-making and Valuation for Environmental Policy STAR Recipients

Abstracts | Publications

Check All

| Number | Add to Report? | Identifier | Abstract | Principal Investigator | Proposed Start Date |
|---|---|---|---|---|---|
| 1 | ☐ | R829407 | Environmental Management Systems: Informing Organizational Decisions | Lave, Lester<br>Hendrickson, Chris | November 2001 - October 2003 |
| 2 | ☐ | R829508 | Measuring Economics Benefits for Amenity Consequences of Land Cover Changes | Smith, V. Kerry<br>Phaneuf, Daniel J.<br>Palmquist, Raymond B. | October 2001 - September 2004 |
| 3 | ☐ | R829384 | Economics of Conserving Ecosystem Integrity with Residential Development around Vernal Pools | Swallow, Stephen K.<br>Paton, Peter | January 2002 - December 2003 |
| 4 | ☐ | R829440 | Environmental Management Systems: Do Formalized Management Systems Produce Superior Performance? | Andrews, Richard N.<br>Amaral, Deborah | November 2001 - November 2003 |
| 5 | ☐ | R829485 | Not All Deaths are Created Equal: Understanding Individual Preferences for Reductions in Morbidity-Mortality Events | DeShazo, J. R.<br>Cameron, Trudy | October 2001 - September 2003 |

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- ☑ Principal Investigator
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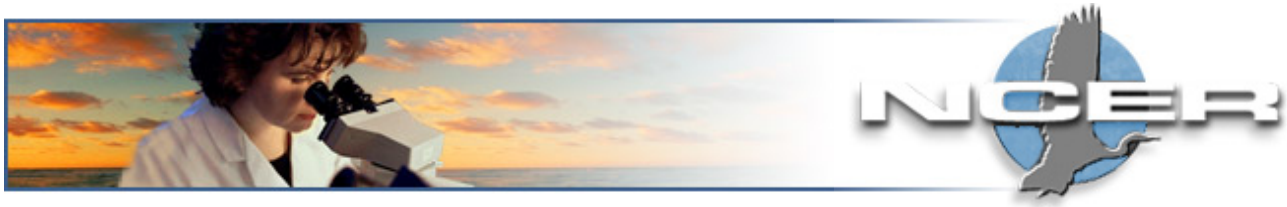




# 2000 Corporate Environmental Performance and the Effectiveness of Government Interventions STAR Recipients

Abstracts | Publications

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| Number | Add to Report? | Identifier | Abstract | Principal Investigator | Proposed Start Date |
|---|---|---|---|---|---|
| 1 | ☐ | R828826 | Organizational Structures, Citizen Participation, and Corporate Environmental Performance | Grant, Don | June 2001 - May 2002 |
| 2 | ☐ | R828824 | Determinants of Environmental Compliance: Plant, Firm, and Enforcement Factors | Gray, Wayne B.<br>Shadbegian, Ronald J. | May 2001 - April 2004 |
| 3 | ☐ | R828828 | "Shaping Corporate Environmental Behavior and Performance: The Impact of Enforcement and Non-Enforcement Tools" | Earnhart, Dietrich H.<br>Haider-Markel, Donald<br>Ebihara, Tatsuji<br>Glicksman, Robert | March 2001 - March 2004 |
| 4 | ☐ | R828827 | Tracking Deterrent Messages in Environmental Enforcement | Kagan, Robert A.<br>Gunningham, Neil<br>Thornton, Dorothy | June 2001 - May 2003 |
| 5 | ☐ | R828825 | Normative, Social, and Calculated Motivations for Compliance: Marine Facilities and Water Pollution | May, Peter J. | June 2001 - June 2004 |

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- ☑ Principal Investigator
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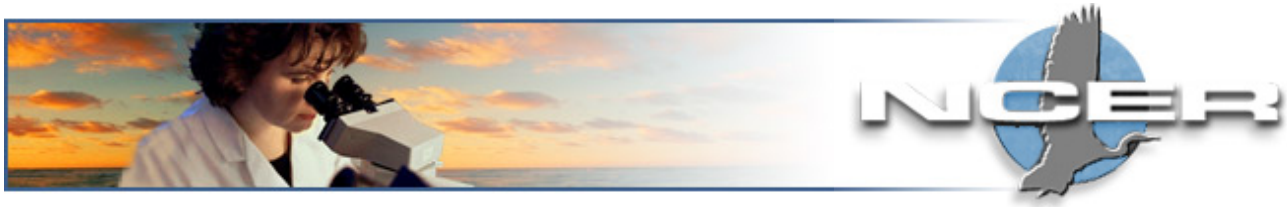




# 2000 Valuation of Children's Health Effects STAR Recipients

Abstracts | Publications

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|---|---|---|---|---|---|
| 1 | ☐ | R828716 | Benefit Transfer Using Values from Adult-oriented Studies to Evaluate Children's Health Effects (Phase 1 - - Theory) | Crocker, Thomas D.<br>Agee, Mark D.<br>Shogren, Jason F. | December 2000 - November 2003 |
| 2 | ☐ | R828717 | Environmental Risks to Children's Health: Parents' Risk Beliefs, Protective Behavior, and Willingness to Pay | Dickie, Mark<br>Gerking, Shelby | January 2001 - December 2003 |

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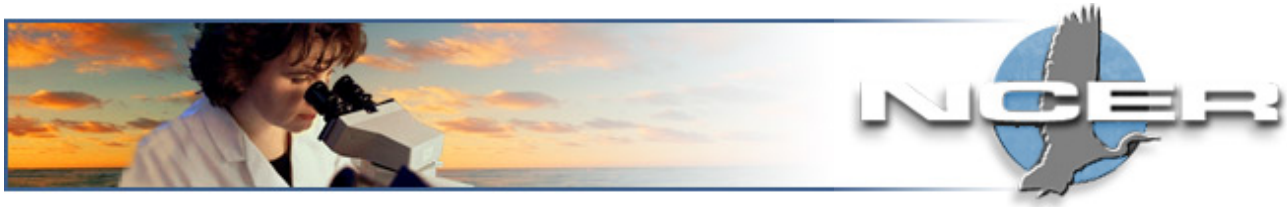




# 2000 Market Mechanisms and Incentives for Environmental Management STAR Recipients

Abstracts | Publications

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|---|---|---|---|---|---|
| 1 | ☐ | R828721 | Evaluating the Dissemination and Impact of Toxics Release Inventory Data | Vasu, Michael<br>Atlas, Mark<br>Dimock, Michael | December 2000 - November 2002 |
| 2 | ☐ | R828626 | Introducing Markets for Green Products: Product Demand, Environmental Quality & Economic Welfare | Moore, Michael R.<br>Kotchen, Matthew J. | January 2001 - December 2002 |
| 3 | ☐ | R828627 | Testing the Potential to Implement Collective Enforcement Agreements in Point-Nonpoint Source Pollution Trading and Voluntary Incentive Agreements | Sohngen, Brent<br>Randall, Alan | September 2000 - August 2002 |
| 4 | ☐ | R828631 | Multi-Lateral Emissions Trading: Political Economy and Firm Response | Farrell, Alex<br>Dowlatabadi, Hadi<br>Epple, Dennis<br>Farrow, Scott | September 2000 - August 2002 |
| 5 | ☐ | R828628 | Efficiency and Distributional Consequences of the Allocation of Tradable Emission Allowances | Burtraw, Dallas<br>Fischer, Carolyn<br>Pizer, Billy | October 2000 - September 2002 |
| 6 | ☐ | R828629 | Designing Incentives that Strengthen Local Capacity for Land Development with Open Space and Healthy Ecosystems: Environmental Impact Fees | Swallow, Stephen K. | January 2001 - February 2003 |
| 7 | ☐ | R828630 | Evaluation of Phase II Compliance with Title IV of the 1990 Clean Air Act Amendments | Ellerman, A. Denny<br>Joskow, Paul L.<br>Schmalensee, Richard<br>Montero, Juan Pablo | October 2000 - March 2003 |

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| Name | Last modified | Size | Description |
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| compliance.html | 22-Apr-02 16:21 | 27K | |
| compliancecostandp2.h+ | 22-Apr-02 16:21 | 93K | |
| corporateenvbehav.htm+ | 22-Apr-02 16:21 | 38K | |
| ecovalair.html | 22-Apr-02 16:21 | 27K | |
| ecovalland.html | 22-Apr-02 16:21 | 36K | |
| ecovalmethod.html | 22-Apr-02 16:21 | 65K | |
| ecovalwater.html | 22-Apr-02 16:21 | 37K | |
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| recreationval.html | 22-Apr-02 16:21 | 33K | |
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# Tabular Query Results of NCER Program and Solicitation Information

**4 Abstracts are listed**

**Your Query was:**

**"compliance cost*" <or> regulat* cost" <or> "government intervention cost" <or> "cost of compliance" <or> "cost of regulat*" <or> "cost of government intervention"**

***Narrow your search results by entering additional terms:***

Refine Search Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|
| 1 | none | Evaluation of Cr(VI) Exposure Assessment in the Shipbuilding Industry | Urban Waste Management & Research Center | Bhaskar Kura, Ph.D., Assistant Professor, Civil and Environmental Engineering | none | none | none | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2 | R82-1240-101 | Economic and Social Impact of Employees Commute Requirements of the Federal Clean Air Act Amendments of 1990 | Towson State University | Gordon Scott Bonham | none | $341,233 | 3 years | Highlighted |
| 3 | R826155 | Environmental Regulation and Productivity Benefits in the Paper Industry | George Perkins Marsh Institute, Clark University | Wayne B. Gray and Ronald J. Shadbegian | Matthew Clark | $300,000 | October 1, 1997 - September 30, 2000 | Highlighted |
| 4 | R828631 | Multi-Lateral Emissions Trading: Political Economy and Firm Response | Carnegie Mellon University | Alex Farrell (afarrell@andrew.cmu.edu), Hadi Dowlatabadi, Dennis Epple, Scott Farrow | Matthew Clark | $149,366 | September 1, 2000 - August 31, 2002 | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects

**Query was:**
**"compliance cost*" <or> regulat* cost" <or> "government intervention cost" <or> "cost of compliance" <or> "cost of regulat*" <or> "cost of government intervention"**

# Tabular Query Results of NCER Program and Solicitation Information

**49 Abstracts are listed**

**Your Query was:**

**"compliance cost*" <or> regulat* cost" <or> "government intervention cost" <or> "cost of compliance" <or> "cost of regulat*" <or> "cost of government intervention" <or> (cost <and> (pollution prevention <or> emission* trading <or> voluntary compliance))**

regulat* cost" "government intervention cost" "cost of compliance" "cost of regulat*" "cost of government intervention" (cost (pollution prevention emission* trading voluntary compliance))">

***Narrow your search results by entering additional terms:***

Refine Search Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|
| 1 | R825370C006 | Pollution Prevention Process Simulator | Michigan Technological University | B.A. Barna, T.N. Rogers, P.P. Radecki | none | none | none | Highlighted |
| 2 | R828631 | Multi-Lateral Emissions Trading: Political Economy and Firm Response | Carnegie Mellon University | Alex Farrell (afarrell@andrew.cmu.edu), Hadi Dowlatabadi, Dennis Epple, Scott Farrow | Matthew Clark | $149,366 | September 1, 2000 - August 31, 2002 | Highlighted |
| 3 | R826739 | New Methods for Assessment of Pollution Prevention Technologies | North Carolina State University | H. Christopher Frey and Morton A. Barlaz | Barbara Karn | $180,000 | October 1, 1998 - September 30, 1999 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4 | 104UHH2345 | Life-Cycle Environmental Costing for Managing Pollution Prevention in the Chemical and Petroleum Refining Industries: A Cross-Border Approach | University of Houston | Beth Beloff, David Shields, Miriam Heller | none | none | none | Highlighted |
| 5 | none | Evaluation of Cr(VI) Exposure Assessment in the Shipbuilding Industry | Urban Waste Management & Research Center | Bhaskar Kura, Ph.D., Assistant Professor, Civil and Environmental Engineering | none | none | none | Highlighted |
| 6 | R824741 | Pollution Prevention Technology Transfer for the Printing Industry | Institute of Advanced Manufacturing Sciences, Inc. (IAMS) | Sally Clement and Larry Kramer | Matthew Clark | $259,284 | October 1995 - October 1997 | Highlighted |
| 7 | R825370C036 | The Design Option Ranking Tool | Michigan Technological University | B.A. Barna and T.N. Rogers | none | none | none | Highlighted |
| 8 | R825331 | Pollution Prevention in Industrial Condensation Reactions | Research Triangle Institute | James J. Spivey and Makarand R. Gogate | Barbara Karn | $359,906 | October 1, 1996 - September 30, 1999 | Highlighted |
| 9 | R824744 | Preparation of Pollution Prevention and Socio-Economic Monographs Using EPA CSI and the DfE Program | Water Environment Federation | Albert Gray, Robert Schweinfurth, and Kimberly Roy | Paul Shapiro | $100,000 | October 1, 1995 - September 30, 1997 | Highlighted |
| 10 | R824753 | Assessing Compliance Burden from Implementation of CAAA Title V Permitting Rules and Regulations | Georgia Institute of Technology | Barry Bozeman | Matthew Clark | $240,000 | October 1995 - September 30, 1997 | Highlighted |
| 11 | R824754 | Advising, Monitoring, and Evaluating a Minnesota Pollution Control Agency Pilot Project for Flexible, Multi-media Permitting | University of Minnesota; Independent Consultant; University of Minnesota | Professor Alfred Marcus, Dr. Donald Geffen, Professor Ken Sexton | Paul Shapiro | $255,000 | October 1, 1995 - September 30, 1997 | Highlighted |
| 12 | R824740 | A Framework to Compare Polices for Source Reduction | University of Texas at Austin | Don Fullerton, Economics | Paul Shapiro | $88,784 | October 1, 1995 - September 30, 1997 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 13 | R825328 | Chemical Plant Wastewater Reuse and Zero Discharge Cycles | University of Oklahoma | Miguel J. Bagajewicz | Barbara Karn | $224,977 | October 1, 1996 - September 30, 1999 | Highlighted |
| 14 | R825370C050 | Clean Chemicals Manufacturing Integrated Synthesis and Processing of Chemicals | University of Minnesota | P. Daoutidis, R.W. Carr, E.L. Cussler, L.D. Schmidt and F. Srienc | none | none | none | Highlighted |
| 15 | R82-1240-101 | Economic and Social Impact of Employees Commute Requirements of the Federal Clean Air Act Amendments of 1990 | Towson State University | Gordon Scott Bonham | none | $341,233 | 3 years | Highlighted |
| 16 | R824737 | Evaluation and Demonstration of Wet Cleaning Alternatives to Perchloroethylene-based Garment Care | University of California, Los Angeles | Robert Gottlieb | Matthew Clark | $129,968 | October 1, 1995 - June 1997 | Highlighted |
| 17 | R828630 | Evaluation of Phase II Compliance with Title IV of the 1990 Clean Air Act Amendments | Massachusetts Institute of Technology | A. Denny Ellerman (ellerman@mit.edu), Paul L. Joskow, Richard Schmalensee, Juan Pablo Montero | Matthew Clark | $289,477 | October 1, 2000 - March 31, 2003 | Highlighted |
| 18 | R828246 | Superheated Water and Steam Degreasing of Working Stocks, Parts, and Equipment in Machining, Manufacturing and Production Processes and Operations | University of Michigan | Walter J. Weber, Jr. | Barbara Karn | $320,000 | 9/1/2000 - 8/31/2003 | Highlighted |
| 19 | R828163 | Evaluating a New Class of Imprinted Sorbent Materials for Toxic Metals Removal | Department of Civil and Environmental Engineering, Zettlemoyer Center of Surface Science, Lehigh University | Arup K. SenGupta1 and Alfred Miller | S. Bala Krishnan | $193,000 | July 1, 2000 - June 30, 2002 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 20 | 104UAL4276 | Waste Minimization in the Magnetic Tape Industry: Waterborne Coating Formulations for Magnetic Tape Manufacture | University of Alabama | David E. Nikles, Alan M. Lane | none | none | none | Highlighted |
| 21 | R825304 | Environmentally Benign Photo-Assisted Catalysis Selective Oxidation Reactions in Zeolites | University of Iowa | Sarah C. Larsen and Vicki H. Grassian | Barbara Karn | $260,228 | October 1, 1996 - September 30, 1999 | Highlighted |
| 22 | R825370C057 | Environmentally Conscious Manufacturing: Prediction of Processing Waste Streams for Discrete Products | Michigan Technological University | John W. Sutherland and Walter W. Olson | none | none | none | Highlighted |
| 23 | R829407 | Environmental Management Systems: Informing Organizational Decisions | Carnegie Mellon University, Pittsburgh, PA | Lester Lave (ll01@andrew.cmu.edu), Chris Hendrickson | Susan Carrillo | $323,265 | November 1, 2001 û October 31, 2003 | Highlighted |
| 24 | R825363 | Direct Quantitation Of Haloacetic Acids By Surface Enhanced Raman Scattering | Pennsylvania State University | Michael J. Natan | Sheila Rosenthal | $163,609 | November 4, 1996 - November 3, 1998 | Highlighted |
| 25 | R828171 | Development of a Membrane-Based Electrostatic Precipitator | Ohio University | Hajrudin Pasic, Khairul Alam, David Bayless, and David Ingram | Paul Shapiro | $225,000 | August 1, 2000 - July 31, 2002 | Highlighted |
| 26 | R826155 | Environmental Regulation and Productivity Benefits in the Paper Industry | George Perkins Marsh Institute, Clark University | Wayne B. Gray and Ronald J. Shadbegian | Matthew Clark | $300,000 | October 1, 1997 - September 30, 2000 | Highlighted |
| 27 | R828628 | Efficiency and Distributional Consequences of the Allocation of Tradable Emission Allowances | Resources for the Future | Dallas Burtraw (Burtraw@rff.org), Carolyn Fischer, Karen Palmer, Billy Pizer | Matthew Clark | $251,000 | October 1, 2000 - September 30, 2002 | Highlighted |
| 28 | R825394 | Sub-Critical Water Extraction of Organic Pollutants | University of North Dakota; University of Leeds | Steven B. Hawthorne and Anthony Clifford | Sheila Rosenthal | $374,925 | December 24, 1996 - December 23, 1999 | Highlighted |
| 29 | R824739 | Wind Energy Assessment in China | American Wind Energy Association | Kevin Rackstraw | Paul Shapiro | $159,972 | October 1, 1995 - September 30, 1997 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 30 | R826165 | Spouted Bed Electrolytic Recovery of Metals for Source Reduction and Waste Minimization | Brown University | Joseph M. Calo | Paul Shapiro | $291,499 | January 14, 1998 - January 13, 2001 | Highlighted |
| 31 | R827719 | Ferric Oxide/Alkali Metal Oxide Induced Oxidation of CHCs in Polluted Gas Streams | LSU | Barry Dellinger, Ph.D. | Paul Shapiro | none | September 1, 1999 - August 31, 2002 | Highlighted |
| 32 | R824732 | Intelligent Decision Making and System Development for Comprehensive Waste Minimization in the Electroplating Industry | Wayne State University | Yinlun Huang | Barbara Karn | $100,000 | September 1, 1995 - September 30, 1997 | Highlighted |
| 33 | 094LSU0410 | Pollution Prevention by Process Modification Using On-Line Optimization | Louisianna State University | Ralph W. Pike | none | none | none | Highlighted |
| 34 | R828128 | Designing for Environment: A Multi-objective Optimization Framework Under Uncertainty | Environmental Institute, Carnegie Mellon University | Urmila Diwekar | Barbara Karn | $274,424 | April 1, 2000 û March 31, 2003 | Highlighted |
| 35 | R825370C005 | Integrating Models for Predicting Pollution Treatment with Models for the Manufacturing Process | Michigan Technological University | J.R. Mihelcic, A. S. Mayer, D. W. Hand, C.C. Nesbitt, D. R. Lueking, and T. N. Rogers | none | none | none | Highlighted |
| 36 | none | Developing a Consensus and Training on Pollution Prevention Metrics | Northeast Waste Management Officials' Association and , the New Jersey Technical Assistance Program | Terri Goldberg, Marcus Healey | none | none | none | Highlighted |
| 37 | R827227 | Development of Novel Bioadsorbents for Heavy Metal Removal | University of California, Riverside | Wilfred Chen, Ashok Mulchandani, and Rajesh Mehra | S. Bala Krishnan | $360,818 | December 1, 1998 - November 30, 2001 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 38 | R829440 | Environmental Management Systems: Do Formalized Management Systems Produce Superior Performance? | University of North Carolina at Chapel Hill, Chapel Hill, NC | Richard N. Andrews (pete_andrews@unc.edu), Deborah Amaral | Susan Carrillo | $340,000 | November 19, 2001 - November 18, 2003 | Highlighted |
| 39 | R827121 | Solvent-less, Electron Beam-Cured Vinyl Ether Coating Formulations for Flexible Magnetic Media Manufacture | The University of Alabama | David E. Nikles | Paul Shapiro | $328,209 | October 1, 1998 - September 30, 2001 | Highlighted |
| 40 | R828721 | Evaluating the Dissemination and Impact of Toxics Release Inventory Data | North Carolina State University | Michael Vasu (vasu@social.chass.ncsu.edu), Mark Atlas, and Michael Dimock | Susan Carrillo | $196,197 | December 1, 2000 - November 30, 2002 | Highlighted |
| 41 | R826731 | Continuous Micro-Sorting of Complex Waste Plastics Particle Mixtures Via Liquid-Fluidized Bed Classification (LFBC) for Waste Minimization and Recycling | Brown University, Providence, RI | J.M. Calo, Professor, Chemical Engineering Program, Division of Engineering | Barbara Karn | $265,000 | February 1, 1999 - March 31, 2002 | Highlighted |
| 42 | R825370C042 | Environmentally Conscious Design for Construction | Michigan Technological University and The M.W. Kellogg Company | R.M. Patty, J.W. Sutherland, C.R. Baillod, D.W. Hertz and D. Grandy | none | none | none | Highlighted |
| 43 | R828257 | Investigation of Room Temperature Ionic Liquids as Environmentally Benign Solvents for Industrial Separations (TSE99-A) | The University of Alabama,. Tuscaloosa, AL; The University of Florida, Gainesville, FL | Robin D. Rogers, The University of Alabama (PI); Alan R. Katritzky, The University of Florida (Co-PI) | Barbara Karn | $375,000 | May 1, 2000 - April 30, 2003 | Highlighted |
| 44 | R825370C023 | Amphophilic Solvents for Pollution Prevention | University of Minnesota | E.L. Cussler | none | none | none | Highlighted |
| 45 | R825370C019 | Selection of Processes to Support Environmentally Conscious Design and Manufacturing | Michigan Technological University | W.W. Olson and J.W. Sutherland | none | none | none | Highlighted |
| 46 | R828210 | Wastewater Reuse and Zero Discharge Cycles in Process Plants | University of Oklahoma | Prof. Miguel Bagajewicz, Prof. Mariano Savelski | Barbara Karn | $99,988 | June 15, 2000 - June 14, 2001 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 47 | R828207 | Computational Requirements of Statistical Learning: Ideal Decision-Making for More Sustainable Urban Environments. | Georgia Institute of Technology | Victoria C. P. Chen, Michael E. Chang, Eva K. Y. Lee, Ellis L. Johnson | Barbara Karn | $335,000 | July 1, 2000 to June 30, 2003 | Highlighted |
| 48 | none | Novel Approaches For Prevention And Control For Trace Metals | University of North Dakota | Michael D. Mann, John H. Pavlish, Ronald C. Timpe, Steven Sternberg, Kaleb Keuther, Eugene Kozliak | none | none | ending date | Highlighted |
| 49 | none | Technology Commercialization And Education | University of North Dakota - EERC | John H. Pavlish, Constance Y. Wixo, Cynthia M. Purfeerst, and Steven A. Benson | none | $200,000 | 9/30/98 ending date | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects

**Query was:**
**"compliance cost*" <or> regulat* cost" <or> "government intervention cost" <or> "cost of compliance" <or> "cost of regulat*" <or> "cost of government intervention" <or> (cost <and> (pollution prevention <or> emission* trading <or> voluntary compliance))**

# Tabular Query Results of NCER Program and Solicitation Information

**10 Abstracts are listed**

**Your Query was:**

**corporate <and> (environmental behavior <or> environmental performance <or> government interventions <or> regulatory <or> voluntary)<and> <not> (Estimation of Indoor Particulate Matter <or> Technical Outreach Services For Communities <or> Effects of Surfactants <or> Risk and the Structure of Vulnerability)**

***Narrow your search results by entering additional terms:***

Refine Search Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|
| 1 | R828828 | Shaping Corporate Environmental Behavior and Performance: The Impact of Enforcement and Non-Enforcement Tools | University of Kansas, Lawrence, KS | Dietrich Earnhart (earnhart@ukans.edu), University of Kansas, Dept. of Economics / Environmental Studies Program; Donald Haider-Markel, University of Kansas, Dept. of Political Science, Policy Research Institute; Tatsui Ebihara; University of Kansas, Dept | Susan Carrillo | $341,234 | March 12, 2001 - March 11, 2004 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2 | R828826 | Organizational Structures, Citizen Participation, and Corporate Environmental Performance | University of Arizona, Tucson, AZ | Dr. Don Grant (grantd@u.arizona.edu) | Susan Carrillo | $35,123 | June 1, 2001 - May 31, 2002 | Highlighted |
| 3 | R829440 | Environmental Management Systems: Do Formalized Management Systems Produce Superior Performance? | University of North Carolina at Chapel Hill, Chapel Hill, NC | Richard N. Andrews (pete_andrews@unc.edu), Deborah Amaral | Susan Carrillo | $340,000 | November 19, 2001 - November 18, 2003 | Highlighted |
| 4 | R828827 | Tracking Deterrent Messages in Environmental Enforcement | University of California at Berkeley, Berkeley, CA | Principal Investigator: Professor Robert Kagan (rak@uclink4.berkeley.edu), Professor of Political Science and Law at the University of California, Berkeley. Co-Principal Investigators: Professor Neil Gunningham, Director of the Australian Center for Envir | Susan Carrillo | $349,981 | June 6, 2001 - May 31, 2003 | Highlighted |
| 5 | R828825 | Normative, Social, and Calculated Motivations for Compliance: Marine Facilities and Water Pollution | University of Washington | Peter J. May (pmay@u.washington.edu) | Susan Carrillo | $227,303 | June 16, 2001 - June 15, 2004 | Highlighted |
| 6 | R827919 | Business-led Environmental Management: Economic Incentives and Environmental Implications | University of Illinois at Urbana-Champaign | Madhu Khanna, Deborah Thurston | Susan Carrillo | $241,516 | December 15, 1999 û December 15, 2001 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 7 | R828824 | Determinants of Environmental Compliance: Plant, Firm, and Enforcement Factors | Clark University, Worcester, MS | Wayne B. Gray, Principal Investigator (wgray@clarku.edu) and Ronald J. Shadbegian, Co-Principal Investigator | Susan Carrillo | $276,883 | May 1, 2001 - April 30, 2004 | Highlighted |
| 8 | R824748 | Regulation, Business, and Sustainable Development: The Management of Environmentally Conscious Technological Innovation Under Alternative Market Conditions | University of Oklahoma | Mark Sharfman, Mark Meo and Rex Ellington | Paul Shapiro | $244,955 | October 1, 1995 - September 30, 1997 | Highlighted |
| 9 | none | Nickel Speciation Of Residual Oil Ash | University of North Dakota EERC, University of Kentucky, University of Louisville | Kevin C. Galbreath (EERC), Christopher J. Zygarlicke (EERC), Donald L. Toman (EERC), Frank E. Huggins (University of Kentucky), Gerald P. Huffman (University of Kentucky), and John Wong (University of Louisville) | none | $10,000 | 9/30/98 ending date | Highlighted |
| 10 | none | The Use of Environmental Information by Place-Based Environmental Groups | none | Susan Charnley | none | none | none | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects

**Query was:**
**corporate <and> (environmental behavior <or> environmental performance <or> government interventions <or> regulatory <or> voluntary)<and> <not> (Estimation of Indoor Particulate Matter <or> Technical Outreach Services For Communities <or> Effects of Surfactants <or> Risk and the Structure of Vulnerability)**

# Tabular Query Results of NCER Program and Solicitation Information

**7 Abstracts are listed**

**Your Query was:**

**eco* <and> (willingness to pay <or> "valuation")<and> air**

air">

***Narrow your search results by entering additional terms:***

Refine Search Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|
| 1 | R82-1335 | Estimation of Health Effects and Values for Air Quality Improvements: the Cases of Taiwan and Los Angeles | Resources for the Future | Alan Krupnick | none | $161,517 | 2 years | Highlighted |
| 2 | R825824 | A Comparison of Direct Methods for Valuing Environmental Policies: A Case Study in New Hampshire's White Mountains | University of New Hampshire, University of Massachusetts, Appalachian Mountain Club | John M. Halstead, Thomas H. Stevens, L. Bruce Hill | Matthew Clark | $159,071 | October 1, 1997 - September 30, 1999 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 3 | R825821 | Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework | Resources for the Future, Georgia Institute of Technology | Jhih-Shyang Shih, Alan J. Krupnick, Armistead G. Russell | Matthew Clark | $300,000 | October 1, 1997 - September 30, 2000 | Highlighted |
| 4 | R826609 | The Role of Locational Equilibria and Collective Behavior in Measuring the Benefits of Air Pollution Policies | Duke University | V. Kerry Smith and Holger Sieg | Matthew Clark | $199,948 | September 1, 1998 - August 31, 2001 | Highlighted |
| 5 | R825313 | Effective Environmental Policy in the Presence of Distorting Taxes | Resources for the Future; Stanford University | Dallas Burtraw, Ian Parry, Lawrence Goulder | Matthew Clark | $200,000 | October 1, 1996 - September 30, 1998 | Highlighted |
| 6 | R826618 | Environmental Labeling of Electricity: Label Design and Performance | University of Maine | Mario F. Teisl | Matthew Clark | $72,573 | September 1, 1998 - August 31, 2000 | Highlighted |
| 7 | R824688 | Can Contingent Valuation Measure Passive-Use Values? | Cornell University; Princeton University; UCLA; University of Washington; University of Colorado | William Schulze, Gregory Poe, Daniel Kahneman, Trudy Cameron, Gardner Brown, and Gary McClelland | Matthew Clark | $381,150 | October 1, 1995 - September 30, 1997 | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects
Small Business Innovation Research Projects

**Query was:**
**eco* <and> (willingness to pay <or> "valuation")<and> air**

# Tabular Query Results of NCER Program and Solicitation Information

**16 Abstracts are listed**

**Your Query was:**

**eco* <and> (willingness to pay <or> "valuation")<and> (waste <or> land)**

(waste land) ">

***Narrow your search results by entering additional terms:***

Refine Search Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|
| 1 | R824766 | Integrated Ecological Economic Modeling and Valuation of Watersheds | University of Maryland | Robert Costanza | Barbara Levinson | $1,000,000 | November 1, 1995 - November 1, 1998 | Highlighted |
| 2 | R825309 | Ecosystem Valuation: Policy Applications for the Patuxent Watershed Ecological-Economics Model | Clark University | Jacqueline Geoghegan | Matthew Clark | $104,685 | January 1, 1997 - December 31, 1998 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 3 | R829508 | Measuring Economics Benefits for Amenity Consequences of Land Cover Changes | Center for Environmental and Resource Economic Policy, North Carolina State University, Raleigh, NC | V. Kerry Smith (vksmith@are1.cals.ncsu.edu), Raymond B. Palmquist, and Daniel J. Phaneuf | Matthew Clark | $299,855 | October 1, 2001 - September 30, 2004 | Highlighted |
| 4 | R827921 | Indicators of Ecosystem Value: Deriving Units of Exchange for Habitat Trades, Banking, and Preservation Priorities | Resources for the Future | James Boyd | Matthew Clark | $273,000 | November 1, 1999 û December 31, 2001 | Highlighted |
| 5 | R825310 | Updating Prior Methods for Non-Market Valuation: A Bayesian Approach to Combining Disparate Sources of Environmental Values | Iowa State University | Joseph A. Herriges and Catherine L. Kling | Matthew Clark | $210,199 | October 1, 1996 - September 30, 1998 | Highlighted |
| 6 | R825307 | Stated Preference Valuation Using Real Money for Real Forested Wetlands | University of Rhode Island | Stephen K. Swallow and Peter Paton | Matthew Clark | $165,081 | October 15, 1996 - October 14, 1998 | Highlighted |
| 7 | R826619 | Land and Management with Biological and Economic Objectives | Oregon State University | Claire Montgomery, Jeffrey L. Arthur, Stephen Polasky | Matthew Clark | $131,089 | October 1, 1998 - December 31, 2000 | Highlighted |
| 8 | R826616 | Estimating the Cost of Carbon Sequestration in Global Forests | The Ohio State University | Brent Sohngen, Robert Mendelsohn, Roger Sedjo | Matthew Clark | $87,401 | September 1, 1998 - August 31, 2000 | Highlighted |
| 9 | R826617 | The Impact of Farmland Preservation Programs | University of Maryland | Nancy E. Bockstael and Cynthia J. Nickerson | Matthew Clark | $80,860 | October 1, 1998 - September 30, 1999 | Highlighted |
| 10 | R827919 | Business-led Environmental Management: Economic Incentives and Environmental Implications | University of Illinois at Urbana-Champaign | Madhu Khanna, Deborah Thurston | Susan Carrillo | $241,516 | December 15, 1999 û December 15, 2001 | Highlighted |
| 11 | R825995 | Stigma of Environmental Damage on Residential Property Values | University of California, Berkeley | Gordon C. Rausser | Matthew Clark | $42,260 | October 1, 1997 August 31, 1998 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 12 | R825822 | Establishing correlations between upland forest management practices and the economic consequences of stream turbidity in municipal supply watersheds | University of Oregon | David Hulse | Matthew Clark | $320,000 | October 1, 1997 - September 30, 2000 | Highlighted |
| 13 | R825759 | Risk Based Urban Watershed Management-Integration of Water Quality and Flood Control Objectives | Marquette University | Vladimir Novotny, Robert Griffin, David Cloark | Gina Perovich | $880,355 | October 1, 1997 - September 30, 2000, No Cost Extension through September 30, 2001 | Highlighted |
| 14 | R825996 | Delineating Optimal Wetland Habitat Corridors for Inclusion in Migratory Flyways | Johns Hopkins University | Charles ReVelle, John Boland, Stephanie Snyder, Justin Williams | Matthew Clark | $227,858 | October 1, 1997 - September 30, 1999 | Highlighted |
| 15 | R829384 | Economics of Conserving Ecosystem Integrity with Residential Development around Vernal Pools | University of Rhode Island, So. Kingston, RI | Stephen K. Swallow (swallow@uri.edu) and Peter Paton | Matthew Clark | $200,017 | January, 2002 - December, 2003 | Highlighted |
| 16 | R827932 | An Integrated Modeling Framework for Analyzing Wetlands Policies: Balancing Economic Factors and Ecosystems Services | University of California, Davis | Marca Weinberg; James Quinn | Matthew Clark | $125,000 | October 01, 1999 û September 30, 2002 | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects
Small Business Innovation Research Projects

**Query was:**
**eco* <and> (willingness to pay <or> "valuation")<and> (waste <or> land)**

# Tabular Query Results of NCER Program and Solicitation Information

**45 Abstracts are listed**

**Your Query was:**

**eco* <and> (willingness to pay <or> "valuation")<and> (theor* <or> method*)**

(theor* method*)">

***Narrow your search results by entering additional terms:***

Refine Search | Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|
| 1 | R824705 | Valuing the Stock and Flow of Mineral and Renewable Assets in National Income Accounting | Colorado School of Mines | Graham Davis | Matthew Clark | $101,000 | October 1, 1995 - September 30, 1997 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 2 | R824711 | Mortality Risk Valuation And Stated Preference Methods: An Exploratory Study | Resources for the Future, University of Maryland and World Bank, University of Colorado, University of Michigan | Alan Krupnick, Maureen Cropper, Anna Alberini, and Robert Belli | Matthew Clark | $114,822 | October 1, 1995 - September 30, 1997 | Highlighted |
| 3 | R824310 | How People Respond to Contingent Valuation Questions | Duke University, Research Triangle Institute, University of Texas | John W. Payne, William H. Desvouges, David A. Schkade | Matthew Clark | $238,510 | October 1, 1995 û April 30, 1998 | Highlighted |
| 4 | R825824 | A Comparison of Direct Methods for Valuing Environmental Policies: A Case Study in New Hampshire's White Mountains | University of New Hampshire, University of Massachusetts, Appalachian Mountain Club | John M. Halstead, Thomas H. Stevens, L. Bruce Hill | Matthew Clark | $159,071 | October 1, 1997 - September 30, 1999 | Highlighted |
| 5 | R825310 | Updating Prior Methods for Non-Market Valuation: A Bayesian Approach to Combining Disparate Sources of Environmental Values | Iowa State University | Joseph A. Herriges and Catherine L. Kling | Matthew Clark | $210,199 | October 1, 1996 - September 30, 1998 | Highlighted |
| 6 | R824709 | Developing Conjoint Stated Preference Methods for Valuation of Environmental Resources Within Their Ecological Context | University of Rhode Island | James J. Opaluch and Stephen K. Swallow | Matthew Clark | $125,972 | October 1995 - September 1997 | Highlighted |
| 7 | R824710 | Valuing Environmental Damages with Stated Preference Methods: New Approaches that Yield Demonstrably Valid Values for Non-Priced Environmental Goods | Georgia State University | Ronald G. Cummings, Laura L. Osborne, James Pate, and Paul Brewer | Matthew Clark | $113,856 | November 1995 - October 1996 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 8 | R826612 | Market Valuation Models and Ecosystem Management in Making Legal and Policy Choices | American University (1), Stanford University (2), University of Maryland (3), Southern Illinois University (4), Indiana University (5) | James Salzman (1), Paul Ehrlich (2), Gretchen Daily (2), Herman Daly (3), Dennis King (3), J.B. Ruhl (4), Robert Fischman (5), | Matthew Clark | $163,265 | June 1, 1998 - December 31, 1999 | Highlighted |
| 9 | none | Aggregative and Deliberative Contexts for Valuation: A Philosophical Contribution to Experimental Research in Environmental Decision Making | U of MD College Park | Mark H Sagoff, David A Crocker, Paul C Stern | Deborah Hanlon | $158,043 | January 1, 1997 - December 31, 1998 | Highlighted |
| 10 | R825307 | Stated Preference Valuation Using Real Money for Real Forested Wetlands | University of Rhode Island | Stephen K. Swallow and Peter Paton | Matthew Clark | $165,081 | October 15, 1996 - October 14, 1998 | Highlighted |
| 11 | R828717 | Environmental Risks to Children's Health: Parents' Risk Beliefs, Protective Behavior, and Willingness to Pay | University of Southern Mississippi, Hattiesburg, MS; University of Wyoming, Laramie, WY | Mark Dickie (mark.dickey@bus.edu), University of Southern Mississippi; Shelby Gerking, University of Wyoming | Matthew Clark | $347,373 | January 1, 2001 - December 31, 2003 | Highlighted |
| 12 | R824886 | Measuring Societal Perceptions, Attitudes, and Economic Benefits of Ecological Integrity and Biodiversity by Extending Contingent Valuation Method Surveys | Colorado State University | John Loomis, Kurt Fausch, Alan Covich, Paula Kent, and Liz Strange | Matthew Clark | $114,998 | July 1996 - April 1999 | Highlighted |
| 13 | R824699 | Innovation in the Valuation of Ecosystems A Forest Application | Vanderbilt University; Oak Ridge National Laboratory | Clifford Russell and Virginia Dale | Matthew Clark | $139,327 | October 1995 - September 1997 | Highlighted |
| 14 | none | Distinguishing Values from Valuation in a Policy-Relevant Manner | Decision Sci Res Inst | Theresa Satterfield, Stephen Johnson | Deborah Hanlon | $150,000 | August 1, 1996 - July 31, 1998 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 15 | R824687 | Improving Willingness-to-Accept Responses Using Alternate Forms of Compensation | Duke University, Nicholas School of the Environment; Research Triangle Institute (North Carolina); Duke University, Fuqua School of Business | George Van Houtven and Joel Huber | Matthew Clark | $51,402 | October 1995 - April 1997 | Highlighted |
| 16 | R825312 | Valuation of Risks to Human Health: Insensitivity to Magnitude? | Harvard College; University of California, Berkeley | James K. Hammitt; John Graham, Michael Hanemann | Matthew Clark | $377,584 | October 15, 1996 - October 14, 1999 | Highlighted |
| 17 | R827922 | Web-Based Methods for Valuing Wetland Services | Michigan State University | John P. Hoehn, Frank Lupi, Michael D. Kaplowitz | Matthew Clark | $227,758 | October 1, 1999 û September 30, 2002 | Highlighted |
| 18 | GF-95-00918 | Development of an Incentive Compatible Mechanism to Assist in Environmental Remediation Site Pioritization and Allocation of Other Public Goods | University of Colorado | Katherine S. Carson | Virginia Broadway | $25,928 | 9/1/95 | Highlighted |
| 19 | R826615 | An Examination of Utility Consistent Approaches to Modeling Corner Solutions in Recreation Demand | Iowa State University | Joseph A. Herriges, Catherine L. Kling, Daniel J. Phaneuf | Matthew Clark | $134,759 | September 1, 1998 August 31, 2000 | Highlighted |
| 20 | R824693 | Social Psychology of Stated Preference | George Mason University (1), National Research Council (2) | (2) | Matthew Clark | none | October 1, 1995 - December 31, 1999 | Highlighted |
| 21 | R824698 | Comparative Studies of Approaches to Eliciting Economic Values | University of California, San Diego | Richard T. Carson, Theodore Groves, and Mark J. Machina | Matthew Clark | $265,000 | October 1, 1995 - September 30, 1997 | Highlighted |
| 22 | R825308 | Valuing Reductions in Environmental Sources of Infertility Risk Using the Efficient Household Framework | Research Triangle Institute; Duke University | George Van Houtven and V. Kerry Smith | Matthew Clark | $170,971 | October 1, 1996 - September 30, 1997 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 23 | R824766 | Integrated Ecological Economic Modeling and Valuation of Watersheds | University of Maryland | Robert Costanza | Barbara Levinson | $1,000,000 | November 1, 1995 - November 1, 1998 | Highlighted |
| 24 | R824688 | Can Contingent Valuation Measure Passive-Use Values? | Cornell University; Princeton University; UCLA; University of Washington; University of Colorado | William Schulze, Gregory Poe, Daniel Kahneman, Trudy Cameron, Gardner Brown, and Gary McClelland | Matthew Clark | $381,150 | October 1, 1995 - September 30, 1997 | Highlighted |
| 25 | R824671 | Environmental Values and National Economic Accounts: A Theoretical Inquiry | University of Colorado, Boulder | Nicholas E. Flores | Matthew Clark | $43,395 | October 1995 - June 1997 | Highlighted |
| 26 | R825821 | Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework | Resources for the Future, Georgia Institute of Technology | Jhih-Shyang Shih, Alan J. Krupnick, Armistead G. Russell | Matthew Clark | $300,000 | October 1, 1997 - September 30, 2000 | Highlighted |
| 27 | R829508 | Measuring Economics Benefits for Amenity Consequences of Land Cover Changes | Center for Environmental and Resource Economic Policy, North Carolina State University, Raleigh, NC | V. Kerry Smith (vksmith@are1.cals.ncsu.edu), Raymond B. Palmquist, and Daniel J. Phaneuf | Matthew Clark | $299,855 | October 1, 2001 - September 30, 2004 | Highlighted |
| 28 | R823362 | Robustness of Welfare Estimates for Environmental Goods from Discrete Choice Recreational Demand Models | Iowa State University | Joseph Herriges and Catherine Kling | Matthew Clark | $87,912 | September 8, 1995 - September 7, 1997 | Highlighted |
| 29 | R825313 | Effective Environmental Policy in the Presence of Distorting Taxes | Resources for the Future; Stanford University | Dallas Burtraw, Ian Parry, Lawrence Goulder | Matthew Clark | $200,000 | October 1, 1996 - September 30, 1998 | Highlighted |
| 30 | R827921 | Indicators of Ecosystem Value: Deriving Units of Exchange for Habitat Trades, Banking, and Preservation Priorities | Resources for the Future | James Boyd | Matthew Clark | $273,000 | November 1, 1999 û December 31, 2001 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 31 | R825759 | Risk Based Urban Watershed Management-Integration of Water Quality and Flood Control Objectives | Marquette University | Vladimir Novotny, Robert Griffin, David Cloark | Gina Perovich | $880,355 | October 1, 1997 - September 30, 2000, No Cost Extension through September 30, 2001 | Highlighted |
| 32 | R824679 | Preference Formation and Elicitation in Valuing Non-Market Goods | The University of New Mexico | David S. Brookshire, Robert Berrens, Philip Ganderton, and Michael McKee of Economics, Hank Jenkins-Smith of the Institute for Public Policy, and Hillard Kaplan of Anthropology | Matthew Clark | $184,998.00 | October 1, 1995 - September 30, 1997 | Highlighted |
| 33 | R824707 | Deriving Biodiversity Option Value Within a Model of Biotechnology Research and Development | University of California at Berkeley | Gordon C. Rausser | Matthew Clark | $80,000 | October 1, 1995 - September 30, 1997 | Highlighted |
| 34 | none | Economic Effects of Multiple Stresses | Center for Ecological Health Research (Cal-Davis) | James Wilen | none | none | 6/30/95 ending date | Highlighted |
| 35 | R826619 | Land and Management with Biological and Economic Objectives | Oregon State University | Claire Montgomery, Jeffrey L. Arthur, Stephen Polasky | Matthew Clark | $131,089 | October 1, 1998 - December 31, 2000 | Highlighted |
| 36 | R826616 | Estimating the Cost of Carbon Sequestration in Global Forests | The Ohio State University | Brent Sohngen, Robert Mendelsohn, Roger Sedjo | Matthew Clark | $87,401 | September 1, 1998 - August 31, 2000 | Highlighted |
| 37 | R826610 | Environmental Policy and Endogenous Technical Change: A Theoretical & Empirical Analysis | University of Rhode Island1, Woods Hole Oceanographic Institute2 | James J. Opaluch1, Di Jin2 and Thomas A. Grigalunas1 | Matthew Clark | $325,000 | October 1, 1998 - September 30, 2001 | Highlighted |
| 38 | R827919 | Business-led Environmental Management: Economic Incentives and Environmental Implications | University of Illinois at Urbana-Champaign | Madhu Khanna, Deborah Thurston | Susan Carrillo | $241,516 | December 15, 1999 û December 15, 2001 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 39 | R825822 | Establishing correlations between upland forest management practices and the economic consequences of stream turbidity in municipal supply watersheds | University of Oregon | David Hulse | Matthew Clark | $320,000 | October 1, 1997 - September 30, 2000 | Highlighted |
| 40 | R825996 | Delineating Optimal Wetland Habitat Corridors for Inclusion in Migratory Flyways | Johns Hopkins University | Charles ReVelle, John Boland, Stephanie Snyder, Justin Williams | Matthew Clark | $227,858 | October 1, 1997 - September 30, 1999 | Highlighted |
| 41 | R828716 | Benefit Transfer Using Values from Adult-oriented Studies to Evaluate Children's Health Effects (Phase 1 - - Theory) | University of Wyoming, Laramie, WY | Thomas D. Crocker (tcrocker@uwyo.edu), Mark D. Agee, and Jason F. Shogren | Matthew Clark | $103,495 | December 1, 2000 - November 30, 2003 | Highlighted |
| 42 | R825825 | A Decision Analysis Framework for Groundwater Remediation | Massachusetts Institute of Technology | Charles F. Harvey, Charles M. Harvey | Matthew Clark | $205,000 | October 1, 1997 - September 30, 2000 | Highlighted |
| 43 | R827932 | An Integrated Modeling Framework for Analyzing Wetlands Policies: Balancing Economic Factors and Ecosystems Services | University of California, Davis | Marca Weinberg; James Quinn | Matthew Clark | $125,000 | October 01, 1999 û September 30, 2002 | Highlighted |
| 44 | R827920 | Continued Development of Methods for Characterizing and Ranking Health, Safety, and Environmental Risks | Carnegie Mellon University | Granger Morgan, Michael Dekay, Paul Fischbeck | Susan Carrillo | $235,504 | December 15, 1999 û December 14, 2001 | Highlighted |
| 45 | R827918 | Voluntary Environmental Standards - Furthering Moral Suasion While Preventing Moral Hazard | Stern School of Business û New York University | Andrew King, Roy R. Radner, James Myles Shaver | Matthew Clark | $236,390 | November, 1999 û October, 2001 | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects

Small Business Innovation Research Projects

**Query was:**
**eco* <and> (willingness to pay <or> "valuation")<and> (theor* <or> method*)**

# Tabular Query Results of NCER Program and Solicitation Information

**13 Abstracts are listed**

**Your Query was:**

**eco* <and> (willingness to pay <or> "valuation")<and> water**

water">

***Narrow your search results by entering additional terms:***

Refine Search Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|
| 1 | R824766 | Integrated Ecological Economic Modeling and Valuation of Watersheds | University of Maryland | Robert Costanza | Barbara Levinson | $1,000,000 | November 1, 1995 - November 1, 1998 | Highlighted |
| 2 | R829508 | Measuring Economics Benefits for Amenity Consequences of Land Cover Changes | Center for Environmental and Resource Economic Policy, North Carolina State University, Raleigh, NC | V. Kerry Smith (vksmith@are1.cals.ncsu.edu), Raymond B. Palmquist, and Daniel J. Phaneuf | Matthew Clark | $299,855 | October 1, 2001 - September 30, 2004 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 | R825759 | Risk Based Urban Watershed Management-Integration of Water Quality and Flood Control Objectives | Marquette University | Vladimir Novotny, Robert Griffin, David Cloark | Gina Perovich | $880,355 | October 1, 1997 - September 30, 2000, No Cost Extension through September 30, 2001 | Highlighted |
| 4 | R824886 | Measuring Societal Perceptions, Attitudes, and Economic Benefits of Ecological Integrity and Biodiversity by Extending Contingent Valuation Method Surveys | Colorado State University | John Loomis, Kurt Fausch, Alan Covich, Paula Kent, and Liz Strange | Matthew Clark | $114,998 | July 1996 - April 1999 | Highlighted |
| 5 | R825309 | Ecosystem Valuation: Policy Applications for the Patuxent Watershed Ecological-Economics Model | Clark University | Jacqueline Geoghegan | Matthew Clark | $104,685 | January 1, 1997 - December 31, 1998 | Highlighted |
| 6 | R827972 | Over-compliance in Point Source Water Pollution | University of Maryland | John Horowitz | Matthew Clark | $59,316 | December 15, 1999 û December 15, 2000 | Highlighted |
| 7 | none | Economic Effects of Multiple Stresses | Center for Ecological Health Research (Cal-Davis) | James Wilen | none | none | 6/30/95 ending date | Highlighted |
| 8 | R825822 | Establishing correlations between upland forest management practices and the economic consequences of stream turbidity in municipal supply watersheds | University of Oregon | David Hulse | Matthew Clark | $320,000 | October 1, 1997 - September 30, 2000 | Highlighted |
| 9 | R826615 | An Examination of Utility Consistent Approaches to Modeling Corner Solutions in Recreation Demand | Iowa State University | Joseph A. Herriges, Catherine L. Kling, Daniel J. Phaneuf | Matthew Clark | $134,759 | September 1, 1998 August 31, 2000 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 10 | R828070 | An Integrated GIS Framework for Water Reallocation and Decision Making in the Upper Rio Grande Basin | University of New Mexico | Olen Paul Matthews, David Brookshire, Michael Campana, Louis Scuderi, Brad Cullen, Kirk Gregory, Seth Snell, Janie Chermak, Kate Krause | Bill Stelz | $409,977 | March 1, 2000 - February 28, 2003 | Highlighted |
| 11 | R825825 | A Decision Analysis Framework for Groundwater Remediation | Massachusetts Institute of Technology | Charles F. Harvey, Charles M. Harvey | Matthew Clark | $205,000 | October 1, 1997 - September 30, 2000 | Highlighted |
| 12 | R827932 | An Integrated Modeling Framework for Analyzing Wetlands Policies: Balancing Economic Factors and Ecosystems Services | University of California, Davis | Marca Weinberg; James Quinn | Matthew Clark | $125,000 | October 01, 1999 û September 30, 2002 | Highlighted |
| 13 | R827921 | Indicators of Ecosystem Value: Deriving Units of Exchange for Habitat Trades, Banking, and Preservation Priorities | Resources for the Future | James Boyd | Matthew Clark | $273,000 | November 1, 1999 û December 31, 2001 | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects
Small Business Innovation Research Projects

**Query was:**
**eco* <and> (willingness to pay <or> "valuation")<and> water**

U.S. Environmental Protection Agency

National Center For Environmental Research

# Tabular Query Results of NCER Program and Solicitation Information

**2 Abstracts are listed**

**Your Query was:**

**health <and> (willingness to pay <or> "valuation") <and> air**

air">

***Narrow your search results by entering additional terms:***

Refine Search Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | R82-1335 | Estimation of Health Effects and Values for Air Quality Improvements: the Cases of Taiwan and Los Angeles | Resources for the Future | Alan Krupnick | none | $161,517 | 2 years | Highlighted |
| 2 | R825821 | Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework | Resources for the Future, Georgia Institute of Technology | Jhih-Shyang Shih, Alan J. Krupnick, Armistead G. Russell | Matthew Clark | $300,000 | October 1, 1997 - September 30, 2000 | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects
Small Business Innovation Research Projects

**Query was:**
**health <and> (willingness to pay <or> "valuation") <and> air**

# Tabular Query Results of NCER Program and Solicitation Information

**5 Abstracts are listed**

**Your Query was:**

**health <and> (willingness to pay <or> "valuation") <and> (waste <or> land)**

(waste land)">

***Narrow your search results by entering additional terms:***

Refine Search Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|
| 1 | R825309 | Ecosystem Valuation: Policy Applications for the Patuxent Watershed Ecological-Economics Model | Clark University | Jacqueline Geoghegan | Matthew Clark | $104,685 | January 1, 1997 - December 31, 1998 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2 | R826617 | The Impact of Farmland Preservation Programs | University of Maryland | Nancy E. Bockstael and Cynthia J. Nickerson | Matthew Clark | $80,860 | October 1, 1998 - September 30, 1999 | Highlighted |
| 3 | R827919 | Business-led Environmental Management: Economic Incentives and Environmental Implications | University of Illinois at Urbana-Champaign | Madhu Khanna, Deborah Thurston | Susan Carrillo | $241,516 | December 15, 1999 û December 15, 2001 | Highlighted |
| 4 | R825995 | Stigma of Environmental Damage on Residential Property Values | University of California, Berkeley | Gordon C. Rausser | Matthew Clark | $42,260 | October 1, 1997 August 31, 1998 | Highlighted |
| 5 | R825827 | Promoting Proper Use of a Household Hazardous Waste Facility: A System Approach | University of Utah | Carol M. Werner | Matthew Clark | $128,211 | October 1, 1997 - December 31, 1998 | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects
Small Business Innovation Research Projects

**Query was:**
**health <and> (willingness to pay <or> "valuation") <and> (waste <or> land)**

# Tabular Query Results of NCER Program and Solicitation Information

**14 Abstracts are listed**

**Your Query was:**

**health <and> (willingness to pay <or> "valuation") <and> (method* <or> theor*)<and> <not> ("Economic Effects of Multiple Stresses")**

(method* theor*) ("Economic Effects of Multiple Stresses")">

***Narrow your search results by entering additional terms:***

Refine Search | Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | R828717 | Environmental Risks to Children's Health: Parents' Risk Beliefs, Protective Behavior, and Willingness to Pay | University of Southern Mississippi, Hattiesburg, MS; University of Wyoming, Laramie, WY | Mark Dickie (mark.dickey@bus.edu), University of Southern Mississippi; Shelby Gerking, University of Wyoming | Matthew Clark | $347,373 | January 1, 2001 - December 31, 2003 | Highlighted |
| 2 | R825312 | Valuation of Risks to Human Health: Insensitivity to Magnitude? | Harvard College; University of California, Berkeley | James K. Hammitt; John Graham, Michael Hanemann | Matthew Clark | $377,584 | October 15, 1996 - October 14, 1999 | Highlighted |
| 3 | R824706 | Eliciting Environmental Values A Constructivist Approach | Carnegie Mellon University | Baruch Fischhoff | Matthew Clark | $99,987 | none | Highlighted |
| 4 | R824711 | Mortality Risk Valuation And Stated Preference Methods: An Exploratory Study | Resources for the Future, University of Maryland and World Bank, University of Colorado, University of Michigan | Alan Krupnick, Maureen Cropper, Anna Alberini, and Robert Belli | Matthew Clark | $114,822 | October 1, 1995 - September 30, 1997 | Highlighted |
| 5 | R826611 | Assessing Preferences for Environmental Decisions with Long-Term Consequences | University of California, Irvine1, Decision Insights, Inc.2 | L. Robin Keller1, Thomas Eppel2 | Matthew Clark | $181,851 | July 1, 1998 - June 30, 2000 | Highlighted |
| 6 | R825308 | Valuing Reductions in Environmental Sources of Infertility Risk Using the Efficient Household Framework | Research Triangle Institute; Duke University | George Van Houtven and V. Kerry Smith | Matthew Clark | $170,971 | October 1, 1996 - September 30, 1997 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 7 | R827919 | Business-led Environmental Management: Economic Incentives and Environmental Implications | University of Illinois at Urbana-Champaign | Madhu Khanna, Deborah Thurston | Susan Carrillo | $241,516 | December 15, 1999 û December 15, 2001 | Highlighted |
| 8 | R826608 | The Valuation of Mortality Risk Reductions: Application of Two New Survey Instruments | Resources for the Future1, University of Maryland & World Bank2, University of Colorado3, University of Michigan4 | Alan J. Krupnick, Maureen Cropper2, Anna Alberini3, Robert Belli4 | Matthew Clark | $270,000 | October 1, 1998 - September 30, 2000 | Highlighted |
| 9 | R827931 | Understanding Observed Differences in Time-Preference Rates | Decision Sciences Research Institute | Robin Gregory, PI; Paul Slovic, Co-PI | Matthew Clark | $228,463 | November 30, 1999 û November 29, 2001 | Highlighted |
| 10 | R828716 | Benefit Transfer Using Values from Adult-oriented Studies to Evaluate Children's Health Effects (Phase 1 - - Theory) | University of Wyoming, Laramie, WY | Thomas D. Crocker (tcrocker@uwyo.edu), Mark D. Agee, and Jason F. Shogren | Matthew Clark | $103,495 | December 1, 2000 - November 30, 2003 | Highlighted |
| 11 | R825827 | Promoting Proper Use of a Household Hazardous Waste Facility: A System Approach | University of Utah | Carol M. Werner | Matthew Clark | $128,211 | October 1, 1997 - December 31, 1998 | Highlighted |
| 12 | R825825 | A Decision Analysis Framework for Groundwater Remediation | Massachusetts Institute of Technology | Charles F. Harvey, Charles M. Harvey | Matthew Clark | $205,000 | October 1, 1997 - September 30, 2000 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 13 | R825821 | Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework | Resources for the Future, Georgia Institute of Technology | Jhih-Shyang Shih, Alan J. Krupnick, Armistead G. Russell | Matthew Clark | $300,000 | October 1, 1997 - September 30, 2000 | Highlighted |
| 14 | R827920 | Continued Development of Methods for Characterizing and Ranking Health, Safety, and Environmental Risks | Carnegie Mellon University | Granger Morgan, Michael Dekay, Paul Fischbeck | Susan Carrillo | $235,504 | December 15, 1999 û December 14, 2001 | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects
Small Business Innovation Research Projects

**Query was:**
**health <and> (willingness to pay <or> "valuation") <and> (method* <or> theor*)<and> <not> ("Economic Effects of Multiple Stresses")**

# Tabular Query Results of NCER Program and Solicitation Information

**2 Abstracts are listed**

**Your Query was:**

**health <and> (willingness to pay <or> "valuation") <and> water <and><not> ("Economic Effects of Multiple Stresses" <or> R824706)**

water ("Economic Effects of Multiple Stresses" R824706) ">

***Narrow your search results by entering additional terms:***

Refine Search Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|
| 1 | R825309 | Ecosystem Valuation: Policy Applications for the Patuxent Watershed Ecological-Economics Model | Clark University | Jacqueline Geoghegan | Matthew Clark | $104,685 | January 1, 1997 - December 31, 1998 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2 | R825825 | A Decision Analysis Framework for Groundwater Remediation | Massachusetts Institute of Technology | Charles F. Harvey, Charles M. Harvey | Matthew Clark | $205,000 | October 1, 1997 - September 30, 2000 | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects
Small Business Innovation Research Projects

**Query was:**
**health <and> (willingness to pay <or> "valuation") <and> water <and><not> ("Economic Effects of Multiple Stresses" <or> R824706)**

# Tabular Query Results of NCER Program and Solicitation Information

**7 Abstracts are listed**

**Your Query was:**

**(market mechanisms <or> incentives <and> (compliance<or> transaction <or> cost savings <or> regulatory <or> trading <or> transfer*))<and> air**

***Narrow your search results by entering additional terms:***

Refine Search Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|
| 1 | R828630 | Evaluation of Phase II Compliance with Title IV of the 1990 Clean Air Act Amendments | Massachusetts Institute of Technology | A. Denny Ellerman (ellerman@mit.edu), Paul L. Joskow, Richard Schmalensee, Juan Pablo Montero | Matthew Clark | $289,477 | October 1, 2000 - March 31, 2003 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2 | R824753 | Assessing Compliance Burden from Implementation of CAAA Title V Permitting Rules and Regulations | Georgia Institute of Technology | Barry Bozeman | Matthew Clark | $240,000 | October 1995 - September 30, 1997 | Highlighted |
| 3 | R828628 | Efficiency and Distributional Consequences of the Allocation of Tradable Emission Allowances | Resources for the Future | Dallas Burtraw (Burtraw@rff.org), Carolyn Fischer, Karen Palmer, Billy Pizer | Matthew Clark | $251,000 | October 1, 2000 - September 30, 2002 | Highlighted |
| 4 | R828631 | Multi-Lateral Emissions Trading: Political Economy and Firm Response | Carnegie Mellon University | Alex Farrell (afarrell@andrew.cmu.edu), Hadi Dowlatabadi, Dennis Epple, Scott Farrow | Matthew Clark | $149,366 | September 1, 2000 - August 31, 2002 | Highlighted |
| 5 | R828626 | Introducing Markets for Green Products: Product Demand, Environmental Quality & Economic Welfare | University of Michigan | Michael R. Moore (micmoore@umich.edu) and Matthew J. Kotchen | Matthew Clark | $68,042 | January 2001 - December, 2002 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 6 | R825821 | Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework | Resources for the Future, Georgia Institute of Technology | Jhih-Shyang Shih, Alan J. Krupnick, Armistead G. Russell | Matthew Clark | $300,000 | October 1, 1997 - September 30, 2000 | Highlighted |
| 7 | none | The Use of Environmental Information by Place-Based Environmental Groups | none | Susan Charnley | none | none | none | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects
Small Business Innovation Research Projects

**Query was:**
**(market mechanisms <or> incentives <and> (compliance<or> transaction <or> cost savings <or> regulatory <or> trading <or> transfer*))<and> air**

# Tabular Query Results of NCER Program and Solicitation Information

**7 Abstracts are listed**

**Your Query was:**

**(market mechanisms <or> incentives <and> (compliance<or> transaction <or> cost savings <or> regulatory <or> "trading" <or> transfer*))<and> (waste <or> land)**

transfer*)) (waste land) ">

***Narrow your search results by entering additional terms:***

Refine Search Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|
| 1 | R824750 | Environmental Technology Initiative '95 | Maryland Center for Environmental Training, Charles County Community College | Jake Bair | Matthew Clark | $119,824 | October 1, 1995 - September 30, 1997 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 2 | R828627 | Testing the Potential to Implement Collective Enforcement Agreements in Point-Nonpoint Source Pollution Trading and Voluntary Incentive Agreements | The Ohio State University | Brent Sohngen (Sohngen.1@osu.edu) and Alan Randall | Matthew Clark | $200,291 | September 1, 2000 - August 30, 2002 | Highlighted |
| 3 | R824738 | Demanufacturing Partnership Program Located at Rutgers University | Rutgers University, Newark | Joan Mahon | Paul Shapiro | $200,000 | October 1, 1995 - September 30, 1997 | Highlighted |
| 4 | R829384 | Economics of Conserving Ecosystem Integrity with Residential Development around Vernal Pools | University of Rhode Island, So. Kingston, RI | Stephen K. Swallow (swallow@uri.edu) and Peter Paton | Matthew Clark | $200,017 | January, 2002 - December, 2003 | Highlighted |
| 5 | R825797 | Ecological, Demographic, and Economic Evaluation of Opportunities and Constraints for Riparian Restoration | Oregon State University, University of Oregon, ECO Northwest, EPA | S.V. Gregory, D.W. Hulse, E. Whitelaw, Dixon Landers | Dale Manty | $899,999 | June 1, 1998 - May 31, 2001 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 6 | R828629 | Designing Incentives that Strengthen Local Capacity for Land Development with Open Space and Healthy Ecosystems: Environmental Impact Fees | University of Rhode Island | Stephen K. Swallow, Professor (swallow@uri.edu) | Matthew Clark | $103,821 | January 2001 - February 2003 | Highlighted |
| 7 | none | The Use of Environmental Information by Place-Based Environmental Groups | none | Susan Charnley | none | none | none | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects
Small Business Innovation Research Projects

**Query was:**
**(market mechanisms <or> incentives <and> (compliance<or> transaction <or> cost savings <or> regulatory <or> "trading" <or> transfer*))<and> (waste <or> land)**

# Tabular Query Results of NCER Program and Solicitation Information

**12 Abstracts are listed**

**Your Query was:**

**(market mechanisms <or> incentives <and> (compliance<or> transaction <or> cost savings <or> regulatory <or> "trading" <or> transfer*))<and> (theor* <or> method*)<and><not>(R828630)**

transfer*)) (theor* method*)(R828630) ">

***Narrow your search results by entering additional terms:***

Refine Search Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|
| 1 | R825286 | Effectiveness of Regulatory Incentives for Sediment Pollution Prevention: Evaluation Through Policy Analysis and Biomonitoring | University of North Carolina | Seth Reice and Richard N. Andrews | Gina Perovich | $556,981 | October 15, 1996 - October 14, 1999 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2 | R826154 | The Economics of Tailored Regulation and the Implications for Project XL | Resources for the Future | Alan J. Krupnick, Allen Blackman and James Boyd | Matthew Clark | $140,000 | October 1, 1997 - September 30, 1999 | Highlighted |
| 3 | R828631 | Multi-Lateral Emissions Trading: Political Economy and Firm Response | Carnegie Mellon University | Alex Farrell (afarrell@andrew.cmu.edu), Hadi Dowlatabadi, Dennis Epple, Scott Farrow | Matthew Clark | $149,366 | September 1, 2000 - August 31, 2002 | Highlighted |
| 4 | R829440 | Environmental Management Systems: Do Formalized Management Systems Produce Superior Performance? | University of North Carolina at Chapel Hill, Chapel Hill, NC | Richard N. Andrews (pete_andrews@unc.edu), Deborah Amaral | Susan Carrillo | $340,000 | November 19, 2001 - November 18, 2003 | Highlighted |
| 5 | U91-5395 | Cost-Sharing Arrangements to Control Nonpoint Source Pollution (NPSP) | University of Wisconsin - Madison, Department of Agricultural and Applied Economics | Kenneth A. Baerenklau | Jason Edwards | 34,000 | 9/1/98 | Highlighted |
| 6 | GF-95-00795 | Response to Water Protection Rule Changes in the Oregon Forest Practices Act: Landowner/Operator Opinions and Streamside Conditions | Oregon State University | Anne Hairston | Virginia Broadway | $31,246 | 7/1/95 | Highlighted |
| 7 | R828628 | Efficiency and Distributional Consequences of the Allocation of Tradable Emission Allowances | Resources for the Future | Dallas Burtraw (Burtraw@rff.org), Carolyn Fischer, Karen Palmer, Billy Pizer | Matthew Clark | $251,000 | October 1, 2000 - September 30, 2002 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 8 | R824748 | Regulation, Business, and Sustainable Development: The Management of Environmentally Conscious Technological Innovation Under Alternative Market Conditions | University of Oklahoma | Mark Sharfman, Mark Meo and Rex Ellington | Paul Shapiro | $244,955 | October 1, 1995 - September 30, 1997 | Highlighted |
| 9 | R828626 | Introducing Markets for Green Products: Product Demand, Environmental Quality & Economic Welfare | University of Michigan | Michael R. Moore (micmoore@umich.edu) and Matthew J. Kotchen | Matthew Clark | $68,042 | January 2001 - December, 2002 | Highlighted |
| 10 | R828629 | Designing Incentives that Strengthen Local Capacity for Land Development with Open Space and Healthy Ecosystems: Environmental Impact Fees | University of Rhode Island | Stephen K. Swallow, Professor (swallow@uri.edu) | Matthew Clark | $103,821 | January 2001 - February 2003 | Highlighted |
| 11 | R825821 | Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework | Resources for the Future, Georgia Institute of Technology | Jhih-Shyang Shih, Alan J. Krupnick, Armistead G. Russell | Matthew Clark | $300,000 | October 1, 1997 - September 30, 2000 | Highlighted |
| 12 | none | The Use of Environmental Information by Place-Based Environmental Groups | none | Susan Charnley | none | none | none | Highlighted |

**Collections that were searched are:**

Research Center Research Projects
Fellowship Research Projects
Grants Research Projects
Small Business Innovation Research Projects

**Query was:**
**(market mechanisms <or> incentives <and> (compliance<or> transaction <or> cost savings <or> regulatory <or> "trading" <or> transfer*))<and> (theor* <or> method*)<and><not>(R828630)**

# Tabular Query Results of NCER Program and Solicitation Information

**5 Abstracts are listed**

**Your Query was:**

**(market mechanisms <or> incentives <and> (compliance<or> transaction <or> cost savings <or> regulatory <or> trading <or> transfer*))<and> water**

***Narrow your search results by entering additional terms:***

Refine Search | Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|
| 1 | R825286 | Effectiveness of Regulatory Incentives for Sediment Pollution Prevention: Evaluation Through Policy Analysis and Biomonitoring | University of North Carolina | Seth Reice and Richard N. Andrews | Gina Perovich | $556,981 | October 15, 1996 - October 14, 1999 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2 | R828627 | Testing the Potential to Implement Collective Enforcement Agreements in Point-Nonpoint Source Pollution Trading and Voluntary Incentive Agreements | The Ohio State University | Brent Sohngen (Sohngen.1@osu.edu) and Alan Randall | Matthew Clark | $200,291 | September 1, 2000 - August 30, 2002 | Highlighted |
| 3 | GF-95-00795 | Response to Water Protection Rule Changes in the Oregon Forest Practices Act: Landowner/Operator Opinions and Streamside Conditions | Oregon State University | Anne Hairston | Virginia Broadway | $31,246 | 7/1/95 | Highlighted |
| 4 | R828825 | Normative, Social, and Calculated Motivations for Compliance: Marine Facilities and Water Pollution | University of Washington | Peter J. May (pmay@u.washington.edu) | Susan Carrillo | $227,303 | June 16, 2001 - June 15, 2004 | Highlighted |
| 5 | none | The Use of Environmental Information by Place-Based Environmental Groups | none | Susan Charnley | none | none | none | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects
Small Business Innovation Research Projects

**Query was:**
**(market mechanisms <or> incentives <and> (compliance<or> transaction <or> cost savings <or> regulatory <or> trading <or> transfer*))<and> water**

# Tabular Query Results of NCER Program and Solicitation Information

**9 Abstracts are listed**

**Your Query was:**

**(recreation <or> asthetics) <and> (willingness to pay <or> "valuation")**

***Narrow your search results by entering additional terms:***

Refine Search Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|
| 1 | R826615 | An Examination of Utility Consistent Approaches to Modeling Corner Solutions in Recreation Demand | Iowa State University | Joseph A. Herriges, Catherine L. Kling, Daniel J. Phaneuf | Matthew Clark | $134,759 | September 1, 1998 August 31, 2000 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2 | R829508 | Measuring Economics Benefits for Amenity Consequences of Land Cover Changes | Center for Environmental and Resource Economic Policy, North Carolina State University, Raleigh, NC | V. Kerry Smith (vksmith@are1.cals.ncsu.edu), Raymond B. Palmquist, and Daniel J. Phaneuf | Matthew Clark | $299,855 | October 1, 2001 - September 30, 2004 | Highlighted |
| 3 | R823362 | Robustness of Welfare Estimates for Environmental Goods from Discrete Choice Recreational Demand Models | Iowa State University | Joseph Herriges and Catherine Kling | Matthew Clark | $87,912 | September 8, 1995 - September 7, 1997 | Highlighted |
| 4 | none | Economic Effects of Multiple Stresses | Center for Ecological Health Research (Cal-Davis) | James Wilen | none | none | 6/30/95 ending date | Highlighted |
| 5 | R825824 | A Comparison of Direct Methods for Valuing Environmental Policies: A Case Study in New Hampshire's White Mountains | University of New Hampshire, University of Massachusetts, Appalachian Mountain Club | John M. Halstead, Thomas H. Stevens, L. Bruce Hill | Matthew Clark | $159,071 | October 1, 1997 - September 30, 1999 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6 | R824886 | Measuring Societal Perceptions, Attitudes, and Economic Benefits of Ecological Integrity and Biodiversity by Extending Contingent Valuation Method Surveys | Colorado State University | John Loomis, Kurt Fausch, Alan Covich, Paula Kent, and Liz Strange | Matthew Clark | $114,998 | July 1996 - April 1999 | Highlighted |
| 7 | R827921 | Indicators of Ecosystem Value: Deriving Units of Exchange for Habitat Trades, Banking, and Preservation Priorities | Resources for the Future | James Boyd | Matthew Clark | $273,000 | November 1, 1999 û December 31, 2001 | Highlighted |
| 8 | R825822 | Establishing correlations between upland forest management practices and the economic consequences of stream turbidity in municipal supply watersheds | University of Oregon | David Hulse | Matthew Clark | $320,000 | October 1, 1997 - September 30, 2000 | Highlighted |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 9 | R827932 | An Integrated Modeling Framework for Analyzing Wetlands Policies: Balancing Economic Factors and Ecosystems Services | University of California, Davis | Marca Weinberg; James Quinn | Matthew Clark | $125,000 | October 01, 1999 û September 30, 2002 | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
Fellowship Research Projects
Grants Research Projects
Small Business Innovation Research Projects

**Query was:**
**(recreation <or> asthetics) <and> (willingness to pay <or> "valuation")**

# Tabular Query Results of NCER Program and Solicitation Information

**54 Abstracts are listed**

**Your Query was:**

**"valuation" <and> (information <or> communication <or> tech transfer <or> transfer <or> networking <or> questionnaire <or> survey)**

(information communication tech transfer transfer networking questionnaire survey)">

***Narrow your search results by entering additional terms:***

Refine Search | Clear Terms

| Number | Identifier | Abstract | Institution | Principal Investigator | Grant Representative | Grant Amount | Proposed Start Date | Highlighted Result? |
|---|---|---|---|---|---|---|---|---|
| 1 | R824710 | Valuing Environmental Damages with Stated Preference Methods: New Approaches that Yield Demonstrably Valid Values for Non-Priced Environmental Goods | Georgia State University | Ronald G. Cummings, Laura L. Osborne, James Pate, and Paul Brewer | Matthew Clark | $113,856 | November 1995 - October 1996 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 2 | R825310 | Updating Prior Methods for Non-Market Valuation: A Bayesian Approach to Combining Disparate Sources of Environmental Values | Iowa State University | Joseph A. Herriges and Catherine L. Kling | Matthew Clark | $210,199 | October 1, 1996 - September 30, 1998 | Highlighted |
| 3 | R824687 | Improving Willingness-to-Accept Responses Using Alternate Forms of Compensation | Duke University, Nicholas School of the Environment; Research Triangle Institute (North Carolina); Duke University, Fuqua School of Business | George Van Houtven and Joel Huber | Matthew Clark | $51,402 | October 1995 - April 1997 | Highlighted |
| 4 | R827922 | Web-Based Methods for Valuing Wetland Services | Michigan State University | John P. Hoehn, Frank Lupi, Michael D. Kaplowitz | Matthew Clark | $227,758 | October 1, 1999 û September 30, 2002 | Highlighted |
| 5 | GF-95-02252 | Improving the External Validity of Contingent Valuation Methodology | Carnegie Mellon University | Edward Welch | Virginia Broadway | $34,000 | May 31, 1995 | Highlighted |
| 6 | R825307 | Stated Preference Valuation Using Real Money for Real Forested Wetlands | University of Rhode Island | Stephen K. Swallow and Peter Paton | Matthew Clark | $165,081 | October 15, 1996 - October 14, 1998 | Highlighted |
| 7 | R827987 | Optimal Experimental Design for Nonmarket Choice Experiments | Hubert H. Humphrey Institute of Public Affairs, University of Minnesota | Barbara J. Kanninen | Matthew Clark | $61,014 | January 1, 2000 û June 30, 2002 | Highlighted |
| 8 | R825312 | Valuation of Risks to Human Health: Insensitivity to Magnitude? | Harvard College; University of California, Berkeley | James K. Hammitt; John Graham, Michael Hanemann | Matthew Clark | $377,584 | October 15, 1996 - October 14, 1999 | Highlighted |
| 9 | R824886 | Measuring Societal Perceptions, Attitudes, and Economic Benefits of Ecological Integrity and Biodiversity by Extending Contingent Valuation Method Surveys | Colorado State University | John Loomis, Kurt Fausch, Alan Covich, Paula Kent, and Liz Strange | Matthew Clark | $114,998 | July 1996 - April 1999 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 10 | R826608 | The Valuation of Mortality Risk Reductions: Application of Two New Survey Instruments | Resources for the Future1, University of Maryland & World Bank2, University of Colorado3, University of Michigan4 | Alan J. Krupnick, Maureen Cropper2, Anna Alberini3, Robert Belli4 | Matthew Clark | $270,000 | October 1, 1998 - September 30, 2000 | Highlighted |
| 11 | R824699 | Innovation in the Valuation of Ecosystems A Forest Application | Vanderbilt University; Oak Ridge National Laboratory | Clifford Russell and Virginia Dale | Matthew Clark | $139,327 | October 1995 - September 1997 | Highlighted |
| 12 | none | Aggregative and Deliberative Contexts for Valuation: A Philosophical Contribution to Experimental Research in Environmental Decision Making | U of MD College Park | Mark H Sagoff, David A Crocker, Paul C Stern | Deborah Hanlon | $158,043 | January 1, 1997 - December 31, 1998 | Highlighted |
| 13 | R825824 | A Comparison of Direct Methods for Valuing Environmental Policies: A Case Study in New Hampshire's White Mountains | University of New Hampshire, University of Massachusetts, Appalachian Mountain Club | John M. Halstead, Thomas H. Stevens, L. Bruce Hill | Matthew Clark | $159,071 | October 1, 1997 - September 30, 1999 | Highlighted |
| 14 | R828717 | Environmental Risks to Children's Health: Parents' Risk Beliefs, Protective Behavior, and Willingness to Pay | University of Southern Mississippi, Hattiesburg, MS; University of Wyoming, Laramie, WY | Mark Dickie (mark.dickey@bus.edu), University of Southern Mississippi; Shelby Gerking, University of Wyoming | Matthew Clark | $347,373 | January 1, 2001 - December 31, 2003 | Highlighted |
| 15 | R824671 | Environmental Values and National Economic Accounts: A Theoretical Inquiry | University of Colorado, Boulder | Nicholas E. Flores | Matthew Clark | $43,395 | October 1995 - June 1997 | Highlighted |
| 16 | R824698 | Comparative Studies of Approaches to Eliciting Economic Values | University of California, San Diego | Richard T. Carson, Theodore Groves, and Mark J. Machina | Matthew Clark | $265,000 | October 1, 1995 - September 30, 1997 | Highlighted |
| 17 | none | Optimal Experimental Design for Conjoint Analysis | U of Minnesota-Twin Cities | Barbara J Kanninen | Deborah Hanlon | $82,563 | September 1, 1996 - August 31, 1999 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 18 | R824693 | Social Psychology of Stated Preference | George Mason University (1), National Research Council (2) | (2) | Matthew Clark | none | October 1, 1995 - December 31, 1999 | Highlighted |
| 19 | R824711 | Mortality Risk Valuation And Stated Preference Methods: An Exploratory Study | Resources for the Future, University of Maryland and World Bank, University of Colorado, University of Michigan | Alan Krupnick, Maureen Cropper, Anna Alberini, and Robert Belli | Matthew Clark | $114,822 | October 1, 1995 - September 30, 1997 | Highlighted |
| 20 | R824709 | Developing Conjoint Stated Preference Methods for Valuation of Environmental Resources Within Their Ecological Context | University of Rhode Island | James J. Opaluch and Stephen K. Swallow | Matthew Clark | $125,972 | October 1995 - September 1997 | Highlighted |
| 21 | R825311 | Decision-Making under Uncertainty in the Conservation of Biological Diversity | Woods Hole Oceanographic Institution; Oregon State University; University of Cincinnati; University of Maine; University of Idaho | Andrew R. Solow, Stephen Polasky, Jeffrey Camm, Raymond O'Connor, Blair Csuti | Matthew Clark | $271,463 | October 15, 1996 - October 14, 1998 | Highlighted |
| 22 | R824310 | How People Respond to Contingent Valuation Questions | Duke University, Research Triangle Institute, University of Texas | John W. Payne, William H. Desvouges, David A. Schkade | Matthew Clark | $238,510 | October 1, 1995 û April 30, 1998 | Highlighted |
| 23 | R824706 | Eliciting Environmental Values A Constructivist Approach | Carnegie Mellon University | Baruch Fischhoff | Matthew Clark | $99,987 | none | Highlighted |
| 24 | R826609 | The Role of Locational Equilibria and Collective Behavior in Measuring the Benefits of Air Pollution Policies | Duke University | V. Kerry Smith and Holger Sieg | Matthew Clark | $199,948 | September 1, 1998 - August 31, 2001 | Highlighted |

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| 25 | R824679 | Preference Formation and Elicitation in Valuing Non-Market Goods | The University of New Mexico | David S. Brookshire, Robert Berrens, Philip Ganderton, and Michael McKee of Economics, Hank Jenkins-Smith of the Institute for Public Policy, and Hillard Kaplan of Anthropology | Matthew Clark | $184,998.00 | October 1, 1995 - September 30, 1997 | Highlighted |
| 26 | R829508 | Measuring Economics Benefits for Amenity Consequences of Land Cover Changes | Center for Environmental and Resource Economic Policy, North Carolina State University, Raleigh, NC | V. Kerry Smith (vksmith@are1.cals.ncsu.edu), Raymond B. Palmquist, and Daniel J. Phaneuf | Matthew Clark | $299,855 | October 1, 2001 - September 30, 2004 | Highlighted |
| 27 | R82-1335 | Estimation of Health Effects and Values for Air Quality Improvements: the Cases of Taiwan and Los Angeles | Resources for the Future | Alan Krupnick | none | $161,517 | 2 years | Highlighted |
| 28 | GF-95-00918 | Development of an Incentive Compatible Mechanism to Assist in Environmental Remediation Site Pioritization and Allocation of Other Public Goods | University of Colorado | Katherine S. Carson | Virginia Broadway | $25,928 | 9/1/95 | Highlighted |
| 29 | R825826 | Improving Air Quality Benefit Estimates from Hedonic Models | San Diego State University, University of Texas-Dallas | Mark Thayer, James C. Murdoch, Kurt Beron | Matthew Clark | $124,931 | October 1, 1997 - September 30, 1998 | Highlighted |
| 30 | R829485 | Not All Deaths are Created Equal: Understanding Individual Preferences for Reductions in Morbidity-Mortality Events | University of California at Los Angeles, Los Angeles, CA | J.R. DeShazo (deshazo@ucla.edu) and Trudy Ann Cameron | Matthew Clark | $360,756 | October 1, 2001 - September 30, 2003 | Highlighted |
| 31 | R824688 | Can Contingent Valuation Measure Passive-Use Values? | Cornell University; Princeton University; UCLA; University of Washington; University of Colorado | William Schulze, Gregory Poe, Daniel Kahneman, Trudy Cameron, Gardner Brown, and Gary McClelland | Matthew Clark | $381,150 | October 1, 1995 - September 30, 1997 | Highlighted |

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|---|---|---|---|---|---|---|---|---|
| 32 | none | Economic Effects of Multiple Stresses | Center for Ecological Health Research (Cal-Davis) | James Wilen | none | none | 6/30/95 ending date | Highlighted |
| 33 | R829407 | Environmental Management Systems: Informing Organizational Decisions | Carnegie Mellon University, Pittsburgh, PA | Lester Lave (ll01@andrew.cmu.edu), Chris Hendrickson | Susan Carrillo | $323,265 | November 1, 2001 û October 31, 2003 | Highlighted |
| 34 | R824766 | Integrated Ecological Economic Modeling and Valuation of Watersheds | University of Maryland | Robert Costanza | Barbara Levinson | $1,000,000 | November 1, 1995 - November 1, 1998 | Highlighted |
| 35 | R826619 | Land and Management with Biological and Economic Objectives | Oregon State University | Claire Montgomery, Jeffrey L. Arthur, Stephen Polasky | Matthew Clark | $131,089 | October 1, 1998 - December 31, 2000 | Highlighted |
| 36 | R826612 | Market Valuation Models and Ecosystem Management in Making Legal and Policy Choices | American University (1), Stanford University (2), University of Maryland (3), Southern Illinois University (4), Indiana University (5) | James Salzman (1), Paul Ehrlich (2), Gretchen Daily (2), Herman Daly (3), Dennis King (3), J.B. Ruhl (4), Robert Fischman (5), | Matthew Clark | $163,265 | June 1, 1998 - December 31, 1999 | Highlighted |
| 37 | R826616 | Estimating the Cost of Carbon Sequestration in Global Forests | The Ohio State University | Brent Sohngen, Robert Mendelsohn, Roger Sedjo | Matthew Clark | $87,401 | September 1, 1998 - August 31, 2000 | Highlighted |
| 38 | R826617 | The Impact of Farmland Preservation Programs | University of Maryland | Nancy E. Bockstael and Cynthia J. Nickerson | Matthew Clark | $80,860 | October 1, 1998 - September 30, 1999 | Highlighted |
| 39 | R827919 | Business-led Environmental Management: Economic Incentives and Environmental Implications | University of Illinois at Urbana-Champaign | Madhu Khanna, Deborah Thurston | Susan Carrillo | $241,516 | December 15, 1999 û December 15, 2001 | Highlighted |
| 40 | R825996 | Delineating Optimal Wetland Habitat Corridors for Inclusion in Migratory Flyways | Johns Hopkins University | Charles ReVelle, John Boland, Stephanie Snyder, Justin Williams | Matthew Clark | $227,858 | October 1, 1997 - September 30, 1999 | Highlighted |

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| 41 | R826615 | An Examination of Utility Consistent Approaches to Modeling Corner Solutions in Recreation Demand | Iowa State University | Joseph A. Herriges, Catherine L. Kling, Daniel J. Phaneuf | Matthew Clark | $134,759 | September 1, 1998 August 31, 2000 | Highlighted |
| 42 | R828070 | An Integrated GIS Framework for Water Reallocation and Decision Making in the Upper Rio Grande Basin | University of New Mexico | Olen Paul Matthews, David Brookshire, Michael Campana, Louis Scuderi, Brad Cullen, Kirk Gregory, Seth Snell, Janie Chermak, Kate Krause | Bill Stelz | $409,977 | March 1, 2000 - February 28, 2003 | Highlighted |
| 43 | R826618 | Environmental Labeling of Electricity: Label Design and Performance | University of Maine | Mario F. Teisl | Matthew Clark | $72,573 | September 1, 1998 - August 31, 2000 | Highlighted |
| 44 | R829384 | Economics of Conserving Ecosystem Integrity with Residential Development around Vernal Pools | University of Rhode Island, So. Kingston, RI | Stephen K. Swallow (swallow@uri.edu) and Peter Paton | Matthew Clark | $200,017 | January, 2002 - December, 2003 | Highlighted |
| 45 | R827931 | Understanding Observed Differences in Time-Preference Rates | Decision Sciences Research Institute | Robin Gregory, PI; Paul Slovic, Co-PI | Matthew Clark | $228,463 | November 30, 1999 û November 29, 2001 | Highlighted |
| 46 | R829440 | Environmental Management Systems: Do Formalized Management Systems Produce Superior Performance? | University of North Carolina at Chapel Hill, Chapel Hill, NC | Richard N. Andrews (pete_andrews@unc.edu), Deborah Amaral | Susan Carrillo | $340,000 | November 19, 2001 - November 18, 2003 | Highlighted |
| 47 | R828716 | Benefit Transfer Using Values from Adult-oriented Studies to Evaluate Children's Health Effects (Phase 1 - - Theory) | University of Wyoming, Laramie, WY | Thomas D. Crocker (tcrocker@uwyo.edu), Mark D. Agee, and Jason F. Shogren | Matthew Clark | $103,495 | December 1, 2000 - November 30, 2003 | Highlighted |

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| 48 | R825827 | Promoting Proper Use of a Household Hazardous Waste Facility: A System Approach | University of Utah | Carol M. Werner | Matthew Clark | $128,211 | October 1, 1997 - December 31, 1998 | Highlighted |
| 49 | R825825 | A Decision Analysis Framework for Groundwater Remediation | Massachusetts Institute of Technology | Charles F. Harvey, Charles M. Harvey | Matthew Clark | $205,000 | October 1, 1997 - September 30, 2000 | Highlighted |
| 50 | R825821 | Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework | Resources for the Future, Georgia Institute of Technology | Jhih-Shyang Shih, Alan J. Krupnick, Armistead G. Russell | Matthew Clark | $300,000 | October 1, 1997 - September 30, 2000 | Highlighted |
| 51 | R827932 | An Integrated Modeling Framework for Analyzing Wetlands Policies: Balancing Economic Factors and Ecosystems Services | University of California, Davis | Marca Weinberg; James Quinn | Matthew Clark | $125,000 | October 01, 1999 û September 30, 2002 | Highlighted |
| 52 | R827920 | Continued Development of Methods for Characterizing and Ranking Health, Safety, and Environmental Risks | Carnegie Mellon University | Granger Morgan, Michael Dekay, Paul Fischbeck | Susan Carrillo | $235,504 | December 15, 1999 û December 14, 2001 | Highlighted |
| 53 | R825822 | Establishing correlations between upland forest management practices and the economic consequences of stream turbidity in municipal supply watersheds | University of Oregon | David Hulse | Matthew Clark | $320,000 | October 1, 1997 - September 30, 2000 | Highlighted |

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| 54 | R827918 | Voluntary Environmental Standards - Furthering Moral Suasion While Preventing Moral Hazard | Stern School of Business û New York University | Andrew King, Roy R. Radner, James Myles Shaver | Matthew Clark | $236,390 | November, 1999 û October, 2001 | Highlighted |

**Collections that were searched are:**
Research Center Research Projects
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