

# TRB Environmental Research: Synthesis

## July 2008

A synthesis of recent environmental research available from the Transportation Research Board's Research in Progress database.

### SECTIONS

- Air Quality
- Aviation
- Built Environment
- Climate Change
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- Marine
- Miscellaneous Impacts
- Noise
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- Soils and Geology
- Streams and Stream Crossings
- Vegetation Management
- Water Quality
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### AIR QUALITY

State: National

Funding Organization: TRB

Title: **Research for the AASHTO Standing Committee on Planning, Task 68: Implications of New 8-Hour Control Strategy Development on Transportation Programs, Policies, and Projects**

Subtopic(s): Air Quality Management, Ozone

Status: Completed 2007/8/10

State: New York

Funding Organization: DOT

Title: **Modeling Air Quality and Energy Impacts of NYSDOT Highway ROW Management**

Subtopic(s): Air Quality, Right of Way

Status: Active

State: New York

Funding Organization: City College of New York

Title: **Hot-Spot Analysis of Fine Particles for Environmental and Health Impact Assessment of Transportation Emissions in South Bronx**

Subtopic(s): Pollutants, Carbon Monoxide, Emission Control Devices

Status: Active

State: National

Funding Organization: University Transportation Center for Mobility—Texas Transportation Institute

Title: **Methodology and Guideline for Regulating Traffic Flows under Air Quality Constraints in Metropolitan Areas**

Subtopic(s): Air Quality, Traffic Assignment

Status: Active

State: Vermont

Funding Organization: University of Vermont, Burlington—UVM Transportation Center

Title: **Emissions and Performance of Alternative Vehicles in Northern Climates**

Subtopic(s): Pollutants, Emission Control Systems, Hybrid Vehicles, Alternate Fuels

Status: Active

State: Texas  
Funding Organization: Southwest Region UTC  
Title: **Microsimulation for Coupled Models of Travel & Location Choice: Applications to Greenhouse Gas Emissions**  
Subtopic(s): Microsimulation, Travel Behavior, Greenhouse Gases  
Status: Active

State: Wyoming  
Funding Organization: DOT  
Title: **Effectiveness of Using Recycled Asphalt Materials (RAP) and other Dust Suppressants in Gravel Roads**  
Subtopic(s): Dust Control  
Status: Active

State: Alaska  
Funding Organization: UTC  
Title: **Development of Ambient PM2.5 Management Strategies**  
Subtopic(s): National Ambient Air Quality Standards, Particulate matter, Nonattainment areas, Policy  
Status: Active

State: California  
Funding Organization: DOT  
Title: **Near Source Modeling of Transportation Emissions in Built Environments Surrounding Major Arterials**  
Subtopic(s): Particulates, Arterial Highways, Land Use Planning  
Status: Active

State: Arizona  
Funding Organization: DOT, FHWA  
Title: **Cost Evaluation of Cross-Border Truck Emissions Testing using Heavy Duty Remote Sensing (HDRS) Equipment**  
Subtopic(s): Border Regions, Trucking, Emission Control Systems  
Status: Active

State: California  
Funding Organization: DOT  
Title: **Mitigating the Social and Environmental Impacts of Multimodal Freight Transportation Corridor Operations**  
Subtopic(s): Ports, Freight Transportation  
Status: Active

State: California  
Funding Organization: DOT  
Title: **An Energy and Emissions Impact Evaluation of Intelligent Speed Adaptation**  
Subtopic(s): Intelligent Speed Adaptation, Emission Control Devices, Traffic Congestion  
Status: Active

State: California  
Funding Organization: DOT  
Title: **Estimating Potential Exposure to Diesel Truck Freeway Emissions in Southern California: A Methodology for Assessing Air Pollution Impacts of Goods Movement**  
Subtopic(s): Freight Traffic, Pollutants  
Status: Active

State: California  
Funding Organization: University of California, Berkeley—UTC  
Title: **Emission and Air Quality Impacts of New Diesel Engine Control Technologies**  
Subtopic(s): Diesel Engines, Pollutants, Particulate Matter, Nitrogen Oxides  
Status: Active

State: Tennessee  
Funding Organization: University of Tennessee, Knoxville  
Title: **Effects of Urban Greenway Construction on Pedestrian and Cyclist Injury Rates, Travel Patterns, and Estimated Vehicular Emissions**  
Subtopic(s): Greenways, Pedestrian Areas, Cyclists, Right of Way  
Status: Active

State: National  
Funding Organization: FTA  
Title: **Advanced Vehicle Emission Reduction Sensor Program**  
Subtopic(s): Public Transit, Emission Control Devices  
Status: Active

State: North Carolina  
Funding Organization: DOT  
Title: **Real World Duty Cycles and Utilization for Construction Equipment in North Carolina**  
Subtopic(s): Pollutants, Construction Equipment  
Status: Active (End Date: 2007/6/30)

State: Connecticut  
Funding Organization: DOT  
Title: **Detailed Modal Analysis of Particulate Emissions from Connecticut Transit Buses for Emissions Modeling**  
Subtopic(s): Emission control systems, Diesel buses  
Status: Active

State: National  
Funding Organization: FHWA  
Title: **Integrating Transportation and Air Quality Planning—Phase III**  
Subtopic(s): MPOs, Transportation Planning  
Status: Active (End Date: 2008/3/31)

## **AVIATION**

State: National  
Funding Organization: ACRP, FAA  
Title: **Aircraft and Airport-Related Hazardous Air Pollutants: Research Needs and Analysis**  
Subtopic(s): Air Quality, Aviation  
Status: Completed 2008/3/7

State: National  
Funding Organization: ACRP, FAA  
Title: **Research Needs Associated with Particulate Emissions at Airports**  
Subtopic(s): Air Quality, Aviation  
Status: Completed 2008/2/1

State: National  
Funding Organization: ACRP, FAA  
Title: **Guidance for Quantifying the Contribution of Airport Emissions to Local Air Quality**  
Subtopic(s): Air Quality, Airports  
Status: Active

State: National  
Funding Organization: ACRP, FAA  
Title: **Guidebook on Preparing Airport Greenhouse Gas (GHG) Emissions Inventories**  
Subtopic(s): Greenhouse Gases  
Status: Active

State: National  
Funding Organization: ACRP, FAA

Title: **Summarizing and Interpreting Aircraft Gaseous and Particulate Emissions Data**  
Subtopic(s): Aircraft, Emission Control Devices  
Status: Active (End Date: 2008/4/9)

State: National  
Funding Organization: ACRP, FAA  
Title: **Handbook for Analyzing the Costs and Benefits of Alternative Turbine Engine Fuels at Airports**  
Subtopic(s): Aircraft, Benefit Cost Analysis  
Status: Active

State: National  
Funding Organization: ACRP, FAA  
Title: **Guidebook on Community Responses to Aircraft Noise**  
Subtopic(s): Airports, Noise Control, Land Use  
Status: Active

State: National  
Funding Organization: ACRP, FAA  
Title: **Synthesis of Information Related to Airport Problems, Topic S02-01: Effects of Aircraft Noise: Research Update on Selected Topics**  
Subtopic(s): Airport Operations, Noise  
Status: Active

## **BUILT ENVIRONMENT**

State: National  
Funding Organization: NHCRP, AASHTO, FHWA  
Title: **Research for the AASHTO Standing Committee on the Environment, Task 49: Effective Practices for Considering Historic Preservation in Transportation Planning and Early Project Development**  
Subtopic(s): Historic Preservation, Transportation Planning, Environmental Impact Statements  
Status: Active

State: National  
Funding Organization: NCHRP, AASHTO, FHWA  
Title: **Synthesis of Information Related to Highway Problems, Topic 39-09: Design Flexibility Considerations for Established Cities**  
Subtopic(s): Right of Way, City Planning  
Status: Active

State: California  
Funding Organization: San Jose State University—UTC  
Title: **The Caltrans Statewide Cultural Property Information System**  
Subtopic(s): Right of Way, Management Systems, Cultural Resources  
Status: Active

## **CLIMATE CHANGE**

State: California  
Funding Organization: Department of Transportation  
Title: **California's 2050 Transportation Context: A Response to Global Warming and Executive Order #S-3-05**  
Subtopic(s): Air Quality  
Status: Completed 2008/5/31

State: National  
Funding Organization: NCHRP, AASHTO, FHWA  
Title: **Research Program Design—Administration of Highway and Transportation Agencies, Strategies for Reducing the Impacts of Surface Transportation on Global Climate Change**

Subtopic(s): Ground Transportation  
Status: Active

State: Alaska  
Funding Organization: DOT, UTC  
Title: **Logistical Support for the Ninth International Conference on Permafrost—NICOP**  
Subtopic(s): Weather and climate, Ecology, Permafrost  
Status: Active

State: California  
Funding Organization: DOT  
Title: **Traffic Congestion: Quantifying the Real World Impact on Greenhouse Gases**  
Subtopic(s): Traffic Congestion, Greenhouse Gases, Air Quality Management  
Status: Active

State: National  
Funding Organization: NCHRP, AASHTO, FHWA  
Title: **Research for the AASHTO Standing Committee on the Environment, Task 24: Climate Change and U.S. Transportation**  
Subtopic(s): Transportation Planning  
Status: Active (End Date: 2007/9/30)

State: National  
Funding Organization: FHWA  
Title: **Strategic Planning and Research Assistance: Climate Change, Air Toxics, and CMAQ Reporting**  
Subtopic(s): Strategic Planning, Air Quality  
Status: Active (End Date: 2008/2/6)

## **CONSTRUCTION**

State: National  
Funding Organization: NCHRP, AASHTO, FHWA  
Title: **Research for the AASHTO Standing Committee on the Environment, Task 47: Compendium of Best Practices for Incorporating Environmental Commitments into Transportation Project Construction Contract Documents**  
Subtopic(s): Best Practices, Environment, Construction  
Status: Active

State: National  
Funding Organization: Infrastructure Technology Institute  
Title: **Strategies for Improving Low-CO2 Cements**  
Subtopic(s): Construction Industry, Pollutants, Air Quality Management  
Status: Active

State: New York  
Funding Organization: University Transportation Research Center, City College of New York  
Title: **Development of Highly Sensitive Portable Hydrocarbon Sensors**  
Subtopic(s): Road Construction, Hydrocarbons, Soil Samplers  
Status: Active

State: Wisconsin  
Funding Organization: University of Wisconsin, Madison—National Center for Freight and Infrastructure Research and Education  
Title: **Assessing Environmental Impacts Associated with Bases and Subgrades Stabilized with Coal Combustion Products (CCPs)**  
Subtopic(s): Coal Based Materials, Greenhouse Gases  
Status: Active

State: Washington  
Funding Organization: University of Washington, Seattle  
Title: **Green Roads—an Environmental Ratings System for Roadway Design and Construction**  
Subtopic(s): Sustainable Development, Highway Design  
Status: Active

State: Virginia  
Funding Organization: DOT, University of Virginia, Charlottesville  
Title: **Understanding the Environmental Effects of Cured-in-Place Pipes for Utility Pipe Rehabilitation**  
Subtopic(s): Pipelines, Soil, Water Quality  
Status: Active (End Date: 2007/5/31)

### **CORRIDOR STUDIES**

State: Pennsylvania  
Funding Organization: DOT  
Title: **I-99 Environmental Research**  
Subtopic(s): Environmental Design  
Status: Completed 2007/3/5

State: Minnesota  
Funding Organization: DOT  
Title: **North/West Passage Clarus Regional Demonstration—Environmental Sensor Station MetaData Development**  
Subtopic(s): Sensors, Metadata  
Status: Active

### **ENDANGERED SPECIES**

State: North Dakota  
Funding Organization: FHWA  
Title: **Blowout Penstemon Endangered Species**  
Subtopic(s): Endangered Species, Habitat, Conservation  
Status: Completed 2007/6/30

State: Nebraska  
Funding Organization: DOT, FHWA  
Title: **Laboratory & Field Measures of Habitat Suitability for Burying Beetles**  
Subtopic(s): Endangered Species, Habitat  
Status: Active

State: Nebraska  
Funding Organization: FHWA  
Title: **Burying Beetle—Phase II**  
Subtopic(s): Endangered Species, Insects, Vegetation  
Status: Active

State: Kentucky  
Funding Organization: DOT  
Title: **Endangered Species Issues**  
Subtopic(s): Best Practices, Policy, Legislation and Regulation  
Status: Active

### **HYDROLOGY**

State: Oregon  
Funding Organization: FHWA

Title: **Rainfall Analysis: Mapping Extreme Precipitation for Oregon**

Subtopic(s): Hydrology, Rainfall

Status: Completed 2008/1/31

State: New Jersey

Funding Organization: DOT

Title: **Handbook of Scour Countermeasure Designs**

Subtopic(s): Bridges, Scour, Channel Stabilization, Technological Innovations

Status: Active (End Date: 2007/7/31)

## **MARINE**

State: Alaska

Funding Organization: DOT

Title: **Environmental Impact of Creosote Treated Marine Piles**

Subtopic(s): Creosote, Marine Engineering, Water Transportation

Status: Active

State: Washington State

Funding Organization: FHWA

Title: **Effects of Pile Driving on Species**

Subtopic(s): Pile Driving, Habitat

Status: Completed 2007/2/28

State: Hawaii

Funding Organization: DOT

Title: **Island Mapping of Chloride Deposition Rate**

Subtopic(s): Coastal Environment, Chlorides, Reinforced Concrete Bridges, Corrosion

Status: Active

State: National

Funding Organization: NCHRP, AASHTO, FHWA

Title: **Predicting and Mitigating Hydroacoustic Impacts on Fish from Pile Installation**

Subtopic(s): Bridges, Fish

Status: Active

State: North Carolina

Funding Organization: DOT

Title: **Shoreline Monitoring at Oregon Inlet Terminal Groin**

Subtopic(s): Coastal Engineering, Erosion Control

Status: Active (End Date: 2008/6/30)

## **MISCELLANEOUS IMPACTS**

State: California

Funding Organization: DOT

Title: **Life-Cycle Environmental Assessment of Passenger Air and Rail Transportation**

Subtopic(s): Air and Rail Transportation, Pollutants, Life Cycle Analysis

Status: Completed 2007/7/31

State: Vermont

Funding Organization: University of Vermont, Burlington

Title: **Sign 1F: Integrated Transportation and Land Use Models: Roadside Environment Metrics**

Subtopic(s): Land Use

Status: Active

State: National

Funding Organization: NCHRP, AASHTO, FHWA

Title: **Synthesis of Information Related to Highway Problems, Topic 39-07: Reducing Litter on the Roadsides**

Subtopic(s): Litter, Roadside Improvement

Status: Active

State: California

Funding Organization: DOT

Title: **Integrated Management of Roads and Roadsides: Long-term Research Framework for Road Effect Zones in California**

Subtopic(s): Road Networks, Road Effect Zone, Runoff, Noise, Wildlife

Status: Active

State: Arizona

Funding Organization: DOT, FHWA

Title: **Evaluating the Effectiveness of Microbe Application to Petroleum Spills at Crash Sites**

Subtopic(s): Spills (Pollution), Runoff

Status: Active

State: Alaska

Funding Organization: University of Alaska, Fairbanks—UTC

Title: **Dust Measurement to Determine Effectiveness of Rural Dust Strategies**

Subtopic(s): Dust Control

Status: Active (End Date: 2008/6/30)

State: New York

Funding Organization: DOT

Title: **Phragmites Biocontrol**

Subtopic(s): Biocontrol, Invasive Species

Status: Active

State: New York

Funding Organization: DOT

Title: **Development of a Portable Petroleum By-Products Chemical Sensor—Phase 3 and Phase 4**

Subtopic(s): Petroleum, Contaminated Soils, Sensors, Groundwater

Status: Active

State: Arizona

Funding Organization: FHWA, DOT

Title: **“Heat Island” Effect of Pavements**

Subtopic(s): Pavement Performance, Technological Innovations, Heat Island Effect

Status: Active (End Date: 2008/6/30)

State: Missouri

Funding Organization: USDOT

Title: **Leaching Behavior of Coal Combustion Products and the Environmental Implication in Road Construction: Phase 2**

Subtopic(s): Road Construction, Leaching, Fly Ash

Status: Active

State: Missouri

Funding Organization: USDOT

Title: **Leaching Behavior of Coal Combustion Products and the Environmental Implication in Road Construction: Phase 3**

Subtopic(s): Road Construction, Leaching, Fly Ash

Status: Active

State: Kentucky

Funding Organization: DOT

Title: **Prevention of Volatile Organic Compound Releases from KYTC Bridge Painting Operations**

Subtopic(s): Organic Compounds, Bridges, Painting

Status: Active

## **NOISE**

State: National

Funding Organization: ACRP, FAA

Title: **Synthesis of Information Related to Airport Problems, Topic S02-03: A Compilation of Airport Noise Programs in Areas Outside DNL 65**

Subtopic(s): Airport Noise

Status: Active

State: Ohio

Funding Organization: DOT

Title: **Smart Sensor for Autonomous Noise Monitoring (SSAM)**

Subtopic(s): Noise, Monitoring

Status: Active

State: Ohio

Funding Organization: DOT

Title: **Effectiveness of Noise Barriers Installed Adjacent to Transverse Grooved Concrete Pavement**

Subtopic(s): Noise Barriers, Pavement Grooving

Status: Active

State: Arizona

Funding Organization: DOT, FHWA

Title: **Investigations of Environmental Effects on Freeway Acoustics**

Subtopic(s): Acoustic Emission, Wind Speed

Status: Active

State: Arizona

Funding Organization: DOT, FHWA

Title: **Pavement Noise Study**

Subtopic(s): Pavement performance, Noise control

Status: Active

State: Montana

Funding Organization: DOT

Title: **Noise Compatible Planning**

Subtopic(s): Land Use Planning, Noise Control

Status: Active

State: Washington State (Pooled Fund Study)

Funding Organization: DOT

Title: **Tire/Pavement Noise Research Consortium**

Subtopic(s): Noise Barriers, Pavement Surface, Durability

Status: Active

State: National

Funding Organization: NCHRP, AASHTO, FHWA

Title: **Research for the AASHTO Standing Committee on the Environment, Task 40: New Noise Barrier Products & Noise Barrier Approval Research & Guidelines**

Subtopic(s): Noise Control, Guidelines

Status: Active (End Date: 2008/1/9)

State: Florida

Funding Organization: DOT

Title: **Pavement Noise Research: Modeling of Quieter Pavements in Florida**  
Subtopic(s): Open Graded Aggregates, Pavement Performance, Pilot Studies  
Status: Active (End Date: 2007/2/27)

State: National  
Funding Organization: NCHRP, AASHTO, FHWA  
Title: **Measuring Tire-Pavement Noise at the Source**  
Subtopic(s): Measurement, Pavement Design  
Status: Active (End Date: 2008/3/31)

State: National  
Funding Organization: NCHRP, AASHTO, FHWA  
Title: **Truck Noise-Source Mapping**  
Subtopic(s): Trucks  
Status: Active (End Date: 2008/2/24)

## **POLICY**

State: National  
Funding Organization: NCHRP, AASHTO, FHWA  
Title: **Research for the AASHTO Standing Committee on the Environment, Task 29: Best Practices Library from the Environmental Stewardship Practices in Construction and Maintenance Compendium**  
Subtopic(s): Best Practices, Environment  
Status: Completed 2007/7/1

State: National  
Funding Organization: NCHRP, AASHTO, FHWA  
Title: **Research for the AASHTO Standing Committee on the Environment, Task 25: Modification and Amendment of Environmental Permits on Design-Build Projects**  
Subtopic(s): Design Build Construction, Environmental Permits  
Status: Completed 2007/7/1

State: National  
Funding Organization: NCHRP, AASHTO, FHWA  
Title: **Research for the AASHTO Standing Committee on the Environment, Task 22: Land Use Forecasting for Indirect Impacts Analysis**  
Subtopic(s): Land Use Planning, Best Practices, Impacts  
Status: Completed 2007/3/1

State: National  
Funding Organization: NCHRP, AASHTO, FHWA  
Title: **Research for the AASHTO Standing Committee on the Environment, Task 54: Evaluate Colorado's Area-wide Cumulative Effects Assessment (ACEA) Methodology as a Mechanism for Cumulative Impacts Analysis of Regional Transportation Plans**  
Subtopic(s): Regional Transportation, Transportation Planning, Environment  
Status: Active

State: Wisconsin  
Funding Organization: University of Wisconsin, Madison, National Center for Freight and Infrastructure Research and Education  
Title: **Develop and Asset Management Tool for Collecting and Tracking Commitments on Selected Environmental Mitigation Features**  
Subtopic(s): Asset Management, Environmental Mitigation  
Status: Active

State: National  
Funding Organization: NCHRP, AASHTO, FHWA  
Title: **Research for the AASHTO Standing Committee on the Environment, Task 51: Asset Management of Environmental Mitigation Features**

Subtopic(s): Asset Management, Environmental Mitigation  
Status: Active

State: National

Funding Organization: NCHRP, AASHTO, FHWA

Title: **Research for the AASHTO Standing Committee on the Environment, Task 46: Compendium of Best Practices for Environmental Compliance and Stewardship at Transportation Maintenance Facilities**

Subtopic(s): Best Practices, Environmental Compliance, Maintenance Facilities

Status: Active

State: National

Funding Organization: NCHRP, AASHTO, FHWA

Title: **Research for the AASHTO Standing Committee on the Environment, Task 38: Guide to Use of Tier I Environmental Impact Statements for Transportation Projects**

Subtopic(s): Environmental Impact Statements

Status: Active

State: National

Funding Organization: NCHRP, AASHTO, FHWA

Title: **Research for the AASHTO Standing Committee on the Environment, Task 43: Guidance on Legal Sufficiency Criteria for Adequate Cumulative and Secondary Impacts Analysis in EIS Documents**

Subtopic(s): Environmental Impact Statements

Status: Active

State: National

Funding Organization: NCHRP, AASHTO, FHWA

Title: **Research for the AASHTO Standing Committee on the Environment, Task 37: Effective Organizational Structures and Management Practices for Achieving Environmental Stewardship in Transportation Agencies**

Subtopic(s): Best Practices, Streamlining, Stewardship

Status: Active

State: National

Funding Organization: NCHRP, AASHTO, FHWA

Title: **Synthesis of Information Related to Highway Problems, Task 39-12: Identify Promising Technologies for Biological Surveys**

Subtopic(s): Biology, Surveys, Technological Innovations

Status: Active

State: California

Funding Organization: San Jose State University—UTC

Title: **Public Support for Environmental Transportation Taxes and Fees? A Survey of Californians**

Subtopic(s): Transportation Taxes, Fuel Taxes

Status: Active

State: California

Funding Organization: DOT

Title: **Costs and Effectiveness of Lower-Speed, Environmentally-Friendly Urban Highway Designs**

Subtopic(s): Traffic Congestion, Cost Effectiveness, Highway Design

Status: Active

State: National

Funding Organization: NCHRP, AASHTO, FHWA

Title: **Research for the AASHTO Standing Committee on the Environment, Task 32: Linking Environmental Resource and Transportation Planning—The Current State of Practice**

Subtopic(s): Transportation Planning, Environmental Design  
Status: Active (End Date: 2007/9/3)

State: National

Funding Organization: NCHRP, AASHTO, FHWA

Title: **Research for the AASHTO Standing Committee on Planning, Task 66: Improved Methods for Assessing Social, Cultural, and Economic Effects of Transportation Projects**

Subtopic(s): Transportation Projects, Quality of Life

Status: Active (End Date: 2008/2/1)

State: Minnesota

Funding Organization: University of Minnesota, Minneapolis—UTC

Title: **Scoping in Environmental Review for Transportation Projects**

Subtopic(s): Transportation Planning, Scoping, Best Practices

Status: Active (End Date: 2007/7/1)

State: National

Funding Organization: NCHRP, AASHTO, FHWA

Title: **Guide for Transportation Landscape and Environmental Design**

Subtopic(s): Environmental Design, Guidelines

Status: Active (End Date: 2008/5/14)

State: Florida

Funding Organization: DOT

Title: **Environmental Digital Data Repositories Project**

Subtopic(s): Digital Mapping

Status: Active (End Date: 2008/2/3)

State: National

Funding Organization: NCHRP, AASTO, FHWA

Title: **Research for the AASHTO Standing Committee on the Environment, Task 23: Environmental Performance Measurements Related to Transportation Project Planning, Design, Construction, Maintenance and Operations**

Subtopic(s): Transportation Planning

Status: Active (End Date: 2007/7/1)

## **SNOW AND ICE CONTROL**

State: National

Funding Organization: NCHRP, AASHTO, FHWA

Title: **Guidelines for the Selection of Snow and Ice Control Materials To Mitigate Environmental Impacts**

Subtopic(s): Snow and Ice Control, Environmental Impacts

Status: Completed 2007/1/1

State: Maine

Funding Organization: DOT

Title: **Risk Management Analysis and Sustainability of MaineDOT Anti-icing Policies**

Subtopic(s): Risk Management

Status: Active

State: Maine

Funding Organization: DOT

Title: **Effects of Road Salt on Bedrock Wells**

Subtopic(s): Bedrock, Groundwater

Status: Active

State: Kentucky

Funding Organization: DOT

Title: **Effects of Chloride Contamination-Winter Bridge Painting on Coatings Performance**

Subtopic(s): Bridge Paints, Chloride  
Status: Active

State: Nevada  
Funding Organization: DOT  
Title: **Effects of De-icing Salts on Vegetation in the Lake Tahoe Basin**  
Subtopic(s): Vegetation  
Status: Active

State: South Dakota  
Funding Organization: DOT  
Title: **Assessment of Chloride Damage to Vegetation**  
Subtopic(s): Roadside Flora, Chloride Content  
Status: Active (End Date: 2007/2/28)

State: New York  
Funding Organization: DOT  
Title: **Using Living Snow Fence to Improve Snow and Ice Control and Vegetation along Highways**  
Subtopic(s): Vegetation Control  
Status: Active

State: National  
Funding Organization: ACRP, FAA  
Title: **Alternative Aircraft and Airfield Deicing and Anti-Icing Formulations with Reduced Aquatic Toxicity and Biological Oxygen Demand**  
Subtopic(s): Aircraft  
Status: Active

State: National  
Funding Organization: ACRP, FAA  
Title: **Managing Runoff From Aircraft and Airfield Deicing and Anti-Icing Operations**  
Subtopic(s): Aircraft, Water Quality  
Status: Active (End Date: 2007/11/8)

State: Virginia  
Funding Organization: DOT  
Title: **Assessment of Soil and Wash-Water Quality Beneath Salt-Spreader Storage Racks: Lubricant and Salt Quantification**  
Subtopic(s): Salts, Washing  
Status: Active (End Date: 2007/9/30)

State: Minnesota  
Funding Organization: DOT  
Title: **Study of Environmental Effects of De-icing Salt on Water Quality in Minnesota**  
Subtopic(s): Water Quality  
Status: Active

State: New Jersey  
Funding Organization: DOT  
Title: **Salt Runoff Collection System (7501)**  
Subtopic(s): Runoff, Maintenance Facilities  
Status: Active (End Date: 2007/9/30)

State: Vermont  
Funding Organization: DOT  
Title: **Statewide Investigation of Roadway Deicing Effects on Water Quality in Vermont**  
Subtopic(s): Chlorides, Water Quality  
Status: Active

## **SOILS AND GEOLOGY**

State: Pennsylvania  
Funding Organization: DOT  
Title: **Jonathan Run Acid Rock Discharge Mitigation Strategies**  
Subtopic(s): Acids, Rocks  
Status: Completed 2007/3/5

State: New Mexico  
Funding Organization: DOT  
Title: **Standards for Tire-Bale Erosion Control and Bank Stabilization Projects: Engineering Validation of Existing Practice and Implementation**  
Subtopic(s): Erosion Control  
Status: Active

State: Vermont  
Funding Organization: DOT  
Title: **Detection and Mitigation of Roadway Subsidence**  
Subtopic(s): Settlement, Sinkholes  
Status: Active

## **STREAMS AND STREAM CROSSINGS**

State: Washington State  
Funding Organization: FHWA  
Title: **Culvert Testing for Fish Passage at the Skookumchuck Test Bed**  
Subtopic(s): Fish Passage  
Status: Completed 2007/6/30

State: Minnesota  
Funding Organization: DOT  
Title: **Cost Analysis of Alternative Culvert Installation Practices in Minnesota**  
Subtopic(s): Cost analysis, Culverts, Aquatic Life, Fish Passage, Hydrology, Erosion Control  
Status: Active

State: Alaska  
Funding Organization: DOT  
Title: **Ice Forces on Bioengineered Bank Stabilization**  
Subtopic(s): Bank Protection, Ice, Soil Stabilization, Hydraulic Structures  
Status: Active

State: Virginia  
Funding Organization: DOT  
Title: **Effects of Sedimentation on Native Freshwater Mussels**  
Subtopic(s): Freshwater Mussels, Sedimentation, Construction Sites  
Status: Active

State: Oregon  
Funding Organization: FHWA  
Title: **Waterway Enhancement Construction Methods**  
Subtopic(s): Fish Passage, Culverts  
Status: Active

State: Alaska  
Funding Organization: DOT  
Title: **Evaluation of Ecological Benefits of Revegetated Riprap and Bioengineering**  
Subtopic(s): Habitat, Bioengineering, Banks (Waterways)  
Status: Active

State: Alaska  
Funding Organization: DOT

Title: **Development of Design Criteria for Vegetated Riprap**

Subtopic(s): Banks (Waterways), Riprap

Status: Active

State: Kansas

Funding Organization: DOT

Title: **Development of Guidelines for Stream Realignment Design**

Subtopic(s): Realignment, Guidelines

Status: Active

State: Montana

Funding Organization: DOT

Title: **Warm Water Species Fish Passage in Eastern Montana Culverts**

Subtopic(s): Culverts, Habitat

Status: Active (End Date: 2007/2/28)

State: Oklahoma

Funding Organization: DOT

Title: **Degradation of Major Streams in Oklahoma**

Subtopic(s): Degradation, Bridge Design

Status: Active

State: Oregon

Funding Organization: DOT

Title: **Low Flow Stream Flow Analysis**

Subtopic(s): Drainage, Fish

Status: Active

State: Oregon

Funding Organization: DOT

Title: **Drainage Facility Management System-System Development and Pilot Data Collection/Implementation Project**

Subtopic(s): Culverts, Condition Surveys

Status: Active (End Date: 2007/6/30)

State: Washington State (Pooled Fund Study)

Funding Organization: DOT

Title: **Fish Passage Capability through Modified Culverts: Flume Research Study**

Subtopic(s): Fish Passage, Culverts, Velocity Measurements

Status: Active

State: Virginia

Funding Organization: DOT

Title: **Development of Regional Channel Geometry Curves for the Piedmont Physiographic Provinces of Virginia**

Subtopic(s): Hydrology

Status: Active

State: Kansas

Funding Organization: DOT

Title: **Inventory and Assessment of Road-Stream Crossings for Aquatic Organism Passage, with Recommendations for Culvert Design**

Subtopic(s): Culverts, Design, Fish

Status: Active

State: Vermont

Funding Organization: DOT

Title: **An Assessment of Culvert Replacements Modified for Fish Passage**

Subtopic(s): Culverts, Fish Passage

Status: Active

State: Georgia  
Funding Organization: DOT  
Title: **An Investigation and Comparison of Stream Channel Restoration Techniques at Bridge Sites**  
Subtopic(s): Bridges, Restoration Ecology  
Status: Active (End Date: 2008/2/17)

State: Nebraska  
Funding Organization: FHWA, DOT  
Title: **Low-Cost Energy Dissipation at Culvert Exits**  
Subtopic(s): Culverts, Scour, Erosion Control  
Status: Active

State: Vermont  
Funding Organization: DOT  
Title: **Continuously Monitored Scour**  
Subtopic(s): Bridges, Scour, Data Collection  
Status: Active

## **VEGETATION MANAGEMENT**

State: Florida  
Funding Organization: DOT  
Title: **Techniques and Training for Management of Invasive Species and Vegetation on Florida Rights-of-Way**  
Subtopic(s): Vegetation Control, Weed Control, Right of Way  
Status: Active

State: Florida  
Funding Organization: DOT  
Title: **Evaluation of Pollution Levels Due to the Use of Consumer Fertilizers under Florida Conditions**  
Subtopic(s): Pollution, Fertilizers, Landscape Maintenance  
Status: Active

State: Nebraska  
Funding Organization: FHWA  
Title: **Adapting NDOR's Roadside Seed Mixtures of Local Site Conditions**  
Subtopic(s): Roadside Improvement, Seeding  
Status: Active

State: North Carolina  
Funding Organization: DOT  
Title: **Establishing Native Vegetation and Improved Invasive Species Control on North Carolina Roadsides**  
Subtopic(s): Native Plants, Invasive Plants, Drainage  
Status: Active

State: Hawaii  
Funding Organization: DOT  
Title: **Native Grass Hydroseed Development**  
Subtopic(s): Hydroseeding, Native Plants, Drainage, Sustainable Maintenance  
Status: Active

State: Nebraska  
Funding Organization: FHWA, DOT  
Title: **Establishing Permanent Vegetation after Highway Construction**  
Subtopic(s): Roadside Improvement, Erosion  
Status: Active

State: Oklahoma  
Funding Organization: DOT  
Title: **Vegetative Rehabilitation of Highway Cut Slopes**  
Subtopic(s): Rehabilitation, Drainage  
Status: Active

State: Oklahoma  
Funding Organization: DOT  
Title: **Herbicide Research Program**  
Subtopic(s): Herbicides, Weed Control  
Status: Active

State: Utah  
Funding Organization: DOT  
Title: **Freeways To Fuel: A Novel Approach To Biofuels Production**  
Subtopic(s): Roadside Improvement, Right of Way  
Status: Active

State: Alaska  
Funding Organization: University of Alaska, Fairbanks—UTC  
Title: **Integrated Vegetation Management Along Alaska's Highways**  
Subtopic(s): Herbicides  
Status: Active (End Date: 2008/6/30)

State: Missouri  
Funding Organization: DOT  
Title: **Study of Roadside Vegetation Establishment on Critical Areas**  
Subtopic(s): Erosion Control, Right of Way, Rivers  
Status: Active

State: Oklahoma  
Funding Organization: DOT  
Title: **Roadside Vegetation Management**  
Subtopic(s):  
Status: Active

State: Maryland  
Funding Organization: DOT  
Title: **Development of Native Seed for Soil Stabilization Projects**  
Subtopic(s): Native Plants, Soil Stabilization  
Status: Active (End Date: 2007/12/31)

State: Arizona  
Funding Organization: FHWA, DOT  
Title: **Effectiveness of Various Pre-Emergent Herbicides**  
Subtopic(s): Herbicides, Weed Control  
Status: Active (End Date: 2008/6/30)

State: National  
Funding Organization: NCHRP, AASHTO, FHWA  
Title: **Guidelines for Vegetation Management**  
Subtopic(s): Best Practices, Right of Way  
Status: Active (End Date: 2008/4/28)

State: Minnesota  
Funding Organization: DOT  
Title: **Canada Thistle Seed Movement**  
Subtopic(s): Seeding, Best Practices  
Status: Active

State: North Carolina  
Funding Organization: DOT  
Title: **Innovative and Environmentally Responsible Methods for Controlling Invasive Woody Plant Species in North Carolina Rights of Way**  
Subtopic(s): Invasive Plants, Herbicides  
Status: Active (End Date: 2008/6/30)

State: Mississippi  
Funding Organization: DOT, FHWA  
Title: **Cogongrass Inventory and Management**  
Subtopic(s): Grasses, Weed Control, Native Plants  
Status: Active (End Date: 2007/9/30)

State: Florida  
Funding Organization: DOT  
Title: **Native Roadside Wildflowers in Rural Areas: Developing Best Management Practices for Establishment of Plantings by Seed and Enhancement of Naturally-Occurring Populations**  
Subtopic(s): Wildflowers, Best Practices, Seeding  
Status: Active (End Date: 2007/12/31)

State: Minnesota  
Funding Organization: DOT  
Title: **Improved Methodologies for the Inoculation of Prairie Legumes in Roadside/Revegetation Settings**  
Subtopic(s): Legumes, Monitoring  
Status: Active

State: Indiana  
Funding Organization: DOT  
Title: **Creation of a Committed Johnson Grass Research Test Area and Implementation Study**  
Subtopic(s): Grasses  
Status: Active

State: North Carolina  
Funding Organization: DOT  
Title: **Herbicide Options for Weed Management in the North Carolina Highway Wildflower Program**  
Subtopic(s): Herbicides, Weed Control, Wildflowers  
Status: Active (End Date: 2007/6/30)

State: New York  
Funding Organization: DOT  
Title: **Vegetative Weed Suppressive Groundcover (Alternative to Herbicides Initiative)**  
Subtopic(s): Herbicides, Right of Way, Tolerance  
Status: Active (End Date: 2007/9/30)

## **WATER QUALITY**

State: Nebraska  
Funding Organization: FHWA  
Title: **Feasibility of Integrating Natural and Constructed Wetlands in Roadway Drainage System Design**  
Subtopic(s): Drainage, Wetlands  
Status: Active

State: New Hampshire  
Funding Organization: NCHRP, AASHTO, FHWA

Title: **Research for the AASHTO Standing Committee on the Environment, Task 53: Stormwater Treatment with Vegetated Buffer**

Subtopic(s): Water Quality Management, Best Practices

Status: Active

State: Ohio

Funding Organization: DOT

Title: **Exfiltration Trenches for Post Construction Storm Water Management for Linear Transportation Projects**

Subtopic(s): Detention Basins

Status: Active

State: Vermont

Funding Organization: DOT

Title: **Porous Pavement Performance Evaluation in a Cold Weather Climate—Randolph Park and Ride**

Subtopic(s): Pavement Performance, Pollution Removal

Status: Active

State: Kansas

Funding Organization: University of Kansas, Lawrence—Transportation Research Institute

Title: **Assessment of the Short and Long Term Effectiveness of Bioretention Cells Treating Paved Surface Runoff in Lenexa Kansas**

Subtopic(s): Detention Basins

Status: Active

State: Kentucky

Funding Organization: DOT

Title: **EPA MS4 Communities Survey Specifications**

Subtopic(s): Water quality, Detention basins, Surveys

Status: Active

State: Minnesota

Funding Organization: DOT

Title: **Estimating the Size Distribution of Suspended Sediments in Minnesota Stormwater—Phase I: The Methodology**

Subtopic(s): Sediments, Detention Basins, Samples

Status: Active

State: Vermont

Funding Organization: University of Vermont, Burlington—UVM National UTC

Title: **Sign 1G: Integrated Transportation and Land Use Models: Stormwater Metrics**

Subtopic(s): Land Use Models, Stormwater Quality

Status: Active

State: North Carolina

Funding Organization: DOT

Title: **Effects of Highway Construction in Sedgefield Lakes and King's Mill**

Subtopic(s): Road Construction, Sedimentation, Monitoring

Status: Active

State: Arizona

Funding Organization: DOT, FHWA

Title: **Sampling and Analyses of Storm Water Runoff on the Red Mountain Freeway Loop 202 between Gilbert Rd. and Lindsey Rd.**

Subtopic(s): Stormwater, Best Practices, Data Collection

Status: Active (End Date: 2008/6/30)

State: Oregon

Funding Organization: DOT, FHWA

Title: **Copper Speciation in Highway Stormwater Runoff as Related to Bioavailability and Toxicity to ESA-Listed Salmon**

Subtopic(s): Runoff, Copper, Pollutants

Status: Active

State: Oregon

Funding Organization: DOT, FHWA

Title: **Environmental Durability of Fiber-Reinforced Composite Repairs for Diagonally-Cracked Reinforced Concrete Bridges**

Subtopic(s): Fiber Reinforced Concrete, Bridge Deck Replacement

Status: Active (End Date: 2007/12/31)

State: Washington State

Funding Organization: FHWA

Title: **Highway Stormwater Research**

Subtopic(s): Pollutants, Runoff, Drainage Coefficient

Status: Active (End Date: 2008/3/31)

State: North Carolina

Funding Organization: DOT

Title: **Stilling Basin Design and Operation for Water Quality: Field Testing**

Subtopic(s): Drainage, Detention Basins

Status: Active

State: California

Funding Organization: DOT, USDOT

Title: **Paving the Way for Best Management Practices of Fugitive Water on Pavement Surfaces**

Subtopic(s): BMPs, Drainage, Pavements

Status: Active (End Date: 2008/5/31)

State: Minnesota

Funding Organization: DOT

Title: **Assessment of the Underground Stormwater Management Devices Under High Flow Conditions**

Subtopic(s): Drainage, Detention Basins

Status: Active

State: District of Columbia

Funding Organization: DOT

Title: **Trash and Water Quality Monitoring of Catch Basin Inserts**

Subtopic(s): Trash, Catch Basins

Status: Active

State: New Jersey

Funding Organization: DOT

Title: **Water Quality Banking**

Subtopic(s): Drainage

Status: Active

State: New Jersey

Funding Organization: DOT

Title: **Water Quality Mitigation and Banking**

Subtopic(s): Runoff, Wetlands, Right of Way

Status: Active

State: North Carolina

Funding Organization: DOT

Title: **Evaluation of Nutrient Loading Rates and Effectiveness of Roadside Vegetative Connectivity for Managing Runoff from Secondary Roads**

Subtopic(s): Runoff, Vegetation Control  
Status: Active

State: Connecticut  
Funding Organization: DOT  
Title: **Evaluating Stormwater Quality Associated with Milling of HMA Surfaces**  
Subtopic(s): Runoff, Hot Mix Pavement Surfaces, Milling  
Status: Active

State: North Carolina  
Funding Organization: DOT  
Title: **Evaluation of Manufactured Stormwater Best Management Practices**  
Subtopic(s): BMPs, Runoff  
Status: Active (End Date: 2008/4/30)

State: Minnesota  
Funding Organization: University of Minnesota, Minneapolis  
Title: **Design Tool for Controlling Runoff and Sediment from Highway Construction**  
Subtopic(s): Sediments, Runoff, Road Construction  
Status: Active (End Date: 2007/1/31)

State: Virginia  
Funding Organization: DOT, Virginia Polytechnic Institute and State University—Blacksburg  
Title: **Optimal Selection & Design of Stormwater BMP Facilities in a Highway Setting**  
Subtopic(s): Drainage, BMPs  
Status: Active (End Date: 2007/6/15)

State: North Carolina  
Funding Organization: DOT  
Title: **Evaluating Sediment Capture Rates for Different Sediment Basin Designs**  
Subtopic(s): Erosion Control, Sediments, Construction Sites  
Status: Active (End Date: 2007/6/30)

State: Minnesota  
Funding Organization: Metropolitan Council of Governments  
Title: **Assessment of Stormwater Management Practices on the Water Quality of Runoff**  
Subtopic(s): Stormwater Quality, Flood Protection  
Status: Active (End Date: 2007/6/30)

State: Wisconsin  
Funding Organization: DOT  
Title: **Evaluate the Performance of the StormFilter in an Urban Setting of Wisconsin**  
Subtopic(s): Drainage Structures  
Status: Active (End Date: 2008/3/31)

State: Maryland  
Funding Organization: DOT  
Title: **Improved Management of Stormwater Runoff—Mitigation of Thermal Effects**  
Subtopic(s): Runoff, Fish, Temperature  
Status: Active (End Date: 2008/1/31)

State: Massachusetts  
Funding Organization: DOT  
Title: **Pavement Runoff Constituents in Closed Highway Drainage Systems**  
Subtopic(s): Drainage Structures, Pavement Design  
Status: Active

State: Vermont  
Funding Organization: DOT  
Title: **Correlating Stream Flow and Stormwater Models**

Subtopic(s): Drainage, Streamflow, Detention Basins  
Status: Active

State: Wisconsin

Funding Organization: DOT

Title: **Pollutant Loading to Storm Water Run-Off from Highways: Impact of a Highway Sweeping Program—Phase II**

Subtopic(s): Runoff, Best Practices

Status: Active (End Date: 2007/12/31)

Status:

## **WETLANDS**

State: Nebraska

Funding Organization: FHWA

Title: **Developing a Water Budget Analysis for Nebraska Sandhills Wetland**

Subtopic(s): Wetlands, Budgeting

Status: Completed 2007/12/31

State: Minnesota

Funding Organization: DOT

Title: **Wetlands: Role of Buffers in Upland Infiltration, Nutrient Absorption, and Wildlife Habitat**

Subtopic(s): Water Quality, Habitat, Infiltration

Status: Active

State: North Carolina

Funding Organization: DOT

Title: **Methodology to Assess Vegetation, Hydrologic, and Soil Parameters that Affect Wetland Restoration Success**

Subtopic(s): Vegetation, Wetland Restoration, Hydrology

Status: Active

State: North Carolina

Funding Organization: DOT

Title: **Research of Hydrologic and Water Quality Performance of 4 Linear Wetlands in Eastern NC and House Creek Watershed Interchange Retrofits**

Subtopic(s): Water Quality, Runoff, BMPs, Detention Basins

Status: Active

State: Missouri

Funding Organization: DOT

Title: **Amphibian Conservation in Mitigation Wetlands**

Subtopic(s): Amphibians, Habitat

Status: Active (End Date: 2007/12/31)

State: Minnesota

Funding Organization: DOT

Title: **Wetland Mitigation in Abandoned Gravel Pits**

Subtopic(s): Gravel Pits, Abandonment

Status: Active

State: Arkansas

Funding Organization: EPA

Title: **Comparison of Wetland Impact Assessment Methodologies**

Subtopic(s):

Status: Active

State: Kentucky

Funding Organization: DOT

Title: **Future Management Strategies for State Maintained Wetlands**

Subtopic(s): Management, Monitoring, Inventory

Status: Active

State: National

Funding Organization: NCHRP, AASHTO, FHWA

Title: **Temporary Bridging to Avoid or Minimize Impacts to Waters and Wetlands During Highway Construction**

Subtopic(s): Road Construction, Water

Status: Active (End Date: 2008/5/30)

State: Virginia

Funding Organization: DOT

Title: **Understanding Cattail (Typha sp.) Invasion and Persistence in VDOT Mitigation Wetlands**

Subtopic(s): Native Plants, Weed Control

Status: Active (End Date: 2007/9/30)

State: Minnesota

Funding Organization: DOT

Title: **Wildlife Value of Reed Canary Grass Infested Wetlands in Minnesota**

Subtopic(s): Wildlife, Vegetation, Native Plants

Status:

State: Massachusetts

Funding Organization: DOT

Title: **Characterization of Compost for Erosion and Sedimentation Control**

Subtopic(s): Erosion Control, Water Quality, Best Practices

Status: Active (End Date: 2007/12/30)

State: Indiana

Funding Organization: DOT

Title: **Constructed Wetland Systems for Wastewater Management**

Subtopic(s): Wastewater, Water Quality

Status: Active

## **WILDLIFE**

State: Oregon (Pooled Fund—Western Transportation Institute)

Funding Organization: DOT

Title: **Animal Vehicle Crash Mitigation Using Advanced Technologies**

Subtopic(s): Wildlife, Vehicle Crashes

Status: Completed (End date: 2008/8/29)

State: Texas

Funding Organization: Texas Transportation Institute

Title: **Deer-Vehicle Crash Information and Research Center Pooled Fund Support**

Subtopic(s): Deer-Vehicle Collisions

Status: Completed 2007/12/31

State: National

Funding Organization: ACRP, FAA

Title: **A Guidebook for Addressing Aircraft/Wildlife Hazards at General Aviation Airports**

Subtopic(s): Aircraft Collisions, Wildlife

Status: Active

State: Maryland

Funding Organization: DOT

Title: **An Investigation into the Use of Drainage Structures by Wildlife**

Subtopic(s): Wildlife, Drainage Structures  
Status: Active

State: Indiana  
Funding Organization: DOT  
Title: **Predicting and Monitoring Traffic-Induced Vertebrae Mortality Near Wetlands**  
Subtopic(s): Animal Vehicle Collisions, Wetlands  
Status: Active

State: Arizona  
Funding Organization: DOT, FHWA  
Title: **Genetic Variation of Pronghorn across US Highway 89 and State Route 64**  
Subtopic(s): Animal Migrations, Genetics  
Status: Programmed

State: Arizona  
Funding Organization: DOT, FHWA  
Title: **Elk Movements Associated with a High-Traffic Highway: Interstate-17**  
Subtopic(s): Animal Migrations, Animal Vehicle Collisions  
Status: Programmed

State: California  
Funding Organization: University of California, Davis—UTC  
Title: **Modeling Habitat Fragmentation in Relation to Road Systems: A Tool for Transportation Planning in California**  
Subtopic(s): Habitat, Fragmentation, Transportation Planning  
Status: Active

State: Oregon  
Funding Organization: DOT, FHWA  
Title: **Wildlife Movement Study**  
Subtopic(s): Highway Safety  
Status: Active

State: Virginia  
Funding Organization: DOT  
Title: **Testing an Integrated PDA-GPS System to Collect Standardized Roadkill Data**  
Subtopic(s): Animals, Collisions, Databases  
Status: Active (End Date: 2008/1/31)

State: National  
Funding Organization: FHWA  
Title: **Wildlife Vehicle Collision Reduction Study**  
Subtopic(s): Animal-Vehicle Collisions  
Status: Active

State: New York  
Funding Organization: DOT  
Title: **Effects of New York State Roadways on Amphibians and Reptiles**  
Subtopic(s): Wetlands, Road Kill  
Status: Active

State: New York  
Funding Organization: DOT  
Title: **Pathogen Analysis of Road-Killed Deer Carcass Compost Facilities**  
Subtopic(s): Road Kill, Compost  
Status: Active (End Date: 2007/9/30)

State: North Carolina  
Funding Organization: DOT  
Title: **Effectiveness of Bear Crossings on I-26 in Madison County**

Subtopic(s): Wildlife Crossings  
Status: Active (End Date: 2007/6/30)

## **WILDLIFE CROSSINGS**

State: Arizona  
Funding Organization: FHWA  
Title: **Evaluation of Measures to Minimize Wildlife Vehicle Collisions and Maintain Wildlife Permeability Across Highways (Phase I and Phase II)**  
Subtopic(s): Wildlife Crossings  
Status: Completed 2008/2/25

State: Colorado  
Funding Organization: DOT  
Title: **Wildlife Underpass (Lynx) Monitoring**  
Subtopic(s): Wildlife Crossings  
Status: Completed 2007/12/31

State: Colorado  
Funding Organization: DOT  
Title: **Highway Corridor Wildlife Mitigation/Habitat Connectivity**  
Subtopic(s): Wildlife Crossings  
Status: Completed 2007/5/31

State: Maine  
Funding Organization: DOT  
Title: **Connecting Transportation Infrastructure and Habitat**  
Subtopic(s): Habitat, Connectivity  
Status: Active

State: Maine  
Funding Organization: DOT  
Title: **Monitoring Wildlife Passage Structures along the Gorham Bypass**  
Subtopic(s): Animal Passage Systems, Surveillance  
Status: Active

State: Arizona  
Funding Organization: DOT, FHWA  
Title: **Predicting Desert Tortoise (*Gopherus agassizii*) Habitat and Identifying Movement Patterns within the Proposed Highway 95 Realignment**  
Subtopic(s): Wildlife Crossings, Highway Realignment, Habitat  
Status: Programmed

State: Arizona  
Funding Organization: FHWA, DOT  
Title: **State Route 64 Wildlife Accident Reduction Study Monitoring**  
Subtopic(s): Wildlife Crossings, Wildlife Movement, Traffic Safety and Wildlife  
Status: Active

State: Arizona  
Funding Organization: DOT, FHWA  
Title: **Antelope Movements North of Interstate 40 in Arizona**  
Subtopic(s): Animal Migrations, Wildlife Crossings, Habitat, Highway Safety  
Status: Active

State: Arizona  
Funding Organization: DOT, FHWA  
Title: **Continued Evaluation of Measures to Minimize Wildlife-Vehicle Collisions & Maintain Wildlife Permeability—Kohls Ranch Section, State Route (SR) 260**

Subtopic(s): Wildlife Crossings  
Status: Active

State: Montana  
Funding Organization: DOT  
Title: **Bozeman Pass Wildlife Linkage and Highway Safety Pilot Study**

Subtopic(s): Wildlife Crossings  
Status: Active

State: Wyoming  
Funding Organization: FHWA  
Title: **Effectiveness of Trapper's Point Wildlife Crossing Animal Detection System**

Subtopic(s): Warning Systems, Wildlife Crossing  
Status: Active

State: Wyoming  
Funding Organization: FHWA  
Title: **Relating Vehicle-Wildlife Crash Rates to Roadway Improvements**

Subtopic(s): Traffic Safety and Wildlife, Wildlife Crossings, Accident Rates  
Status: Active (End Date: 2007/1/31)

State: Wyoming  
Funding Organization: DOT  
Title: **Utilizing GPS Technology to Evaluate Moose Movements in Relation to Vegetation, Structure and Roadway Design Along U.S. Highway 287/26 in Northwest Wyoming**

Subtopic(s): GPS, Animal Migrations, Wildlife Crossings  
Status: Active (End Date: 2007/12/31)

State: Minnesota  
Funding Organization: DOT  
Title: **The Utility of Wildlife Crossings in MN**

Subtopic(s): Wildlife Crossings  
Status: Active

State: Vermont  
Funding Organization: DOT  
Title: **Statewide GIS Database/Analysis for Wildlife Habitat**

Subtopic(s): Geographic Information Systems, Wildlife Crossings  
Status: Active

State: Vermont  
Funding Organization: DOT  
Title: **Evaluating the Effectiveness of Wildlife Passage Structure on the Bennington Bypass**

Subtopic(s): Wildlife Crossings  
Status: Active (End Date: 2008/6/1)