

## An Integrated Approach to Establishing Native Plants



the  
**art&science**  
of revegetation

This web site contains four integrated and interlinked modules dedicated to explaining the art and science of roadside revegetation. Each module contains similar topics, but communicates them differently depending on informational needs. You may begin with any module and continue through it step-by-step or you may use the *in depth* links to visit related information in other modules to reinforce what you are learning.

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## An Integrated Approach

Integrating safe, efficient transportation with ecological health is a crucial issue that is receiving increased attention. Today, most road projects are designed to existing roads rather than new construction. As roads are modified or updated section by section, a tremendous opportunity presents itself to remedy the oversights of the past, mitigating environmental impacts and improving conditions for healthy ecosystems.

The comprehensive ASD+ page Roadside Revegetation Technical Guide offers an integrated approach to facilitate the successful establishment of native plants along roadsides and other areas of disturbance associated with road modifications.

The guide takes readers through a comprehensive process of **initiating, planning, implementing, and monitoring** a roadside revegetation project with native plants.

[View Technical Guide online >](#)

[Download Guide >](#)

```

graph TD
    Initiation --> Planning
    Planning --> Implementation
    Implementation --> MonitoringManagement[Monitoring/Management]
    MonitoringManagement --> AdaptImprove[Adapt and Improve]
    AdaptImprove --> Initiation
  
```

**The Project Cycle**

Initiation → Planning → Implementation → Monitoring/Management → Adapt and Improve → Initiation

Initiation of Future Projects

## Illustrated Guide

A condensed illustrated summary of roadside revegetation

**View the Illustrated Guide online:**

1. Introduction
2. Integration
3. Initiation
4. Planning
5. Implementation
6. Monitoring
7. Summary

[Download Illustrated Guide > \(1.7 MB PDF\)](#)

## Additional Resources

Acronyms

Success Stories

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The diagram illustrates the Roadside Revegetation training process. It begins with a central circle labeled "The Project Cycle". Surrounding this circle are five rectangular boxes: "Implementation" at the top, "Planning" at the top-right, "Adopt and Improve" at the bottom-right, "Initiation of Future Projects" at the bottom, and "Monitoring/Management" at the top-left. Arrows connect these boxes in a clockwise cycle. Below the "Initiation of Future Projects" box is another box labeled "Initiation".

## An Interactive Approach

The Roadside Revegetation training modules provide a guided learning experience that teaches basic revegetation principals using text explanation, video, illustrations, interactive activities, and quizzes. The modules are intended to complement the Technical Guide but may be used for stand alone training.

Each module will take approximately 30-40 minutes to complete. Information in each module builds upon the modules that precede it. If you are new to revegetation, it is recommended that you work through the modules in consecutive order.

Content requires Adobe Flash Player.  
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### Training Modules

1. Introduction
2. Integration
3. Initiation
4. Planning
5. Implementation
6. Monitoring
7. Summary

## Additional Resources

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## An Innovative Approach

To facilitate a deeper understanding of roadside revegetation, the Visualization tool demonstrates the steps and illustrates potential results in different geographic zones over time. This tool is provided for educational and illustrative purposes only.


The Visualization tool will guide you through the following processes:

1. Identifying your **ecological zone**
2. Defining your **site conditions**
3. Selecting your **plant species**

An interactive illustration will allow you to explore the effects of multiple critical factors and visualize the effects of time on revegetation in three distinct ecological zones.

Identify your ecological zone

Define your site conditions



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01 02 03 04 05 16

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Thank you for sharing your innovations, best practices, lessons learned and other experiences. Please fill in the form below to suggest ideas for new Learning Summaries. Before submittal, please review the [Author Guidelines](#).

[View Learning Summaries](#)

\*Required Field

Project Information

Project Name: \*

Abstract: \*

Location (city or proximity to nearest town, state): \*

Latitude/longitude: \*

Date Implemented: \*

Client: \*

Planners:

Implementers/Contractors:

[www.nativererevegetation.org](http://www.nativererevegetation.org)


## Resource Library

Practical and applied information for planning, implementing, and monitoring restoration projects.

[resources.nativevegetation.org](http://resources.nativevegetation.org)

# NATIVE REVEGETATION

A Practitioner's Resource Library for the Western US



## Resource Library

Search Filters

Report Type:

Restoration Type:

Topic Type:

Date:

Search:

Find

Reset

< All >

< All >

< All >

< All >

Select any column heading to re-sort listing in ascending or descending order

Results per page: 10 | 25 | 50 | 100 | All Total: 475

Report Title	Report Type	Topic	1-10 Next >>
7 Collecting, processing, and storing seeds	Literature	Seeds	<a href="#">Details &gt;</a>
A Shifting Profile: Soil Ecological Knowledge in Restoration Management and Science @	Literature	Overviews & Synopses	<a href="#">Details &gt;</a>
Alternative Management of Roadsides/Vegetation @	Literature	Weeds/Invasive Plants	<a href="#">Details &gt;</a>
Antelope Litterbrush reestablishment: a case study of plant size and browse protection effects @	Literature	Plant Maintenance	<a href="#">Details &gt;</a>
Applying lessons from ecological succession to the restoration of landscapes @	Literature	Soil Erosion	<a href="#">Details &gt;</a>
Assess Site	Roadside Guide	Planning	<a href="#">Details &gt;</a>
Beneficial Soil Microorganisms	Roadside Guide	Soil Microorganisms	<a href="#">Details &gt;</a>
Beyond boot values: predicting plant-available N release from organic amendments	PowerPoint Presentation	Soil Amendment	<a href="#">Details &gt;</a>
Bioenergy production systems and biochar application in forests: potential for renewable energy, soil enhancement, and carbon sequestration	Literature	Soil Amendment	<a href="#">Details &gt;</a>
Caltrans Erosion Control Toolbox	Website	Overviews & Synopses	<a href="#">Details &gt;</a>

Results per page: 10 | 25 | 50 | 100 | All Total: 475

1-10 Next >>

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Identify your **ecological zone**

Intro max iusto laquei nostrud pugna quia, autum fames hinc nunc etiam delent. Lobortis dignissim plaqa renef volutpat eu mollis autem valentia nunc.

Glacier, MT

View detailed Ecoregion map

San Diego, CA

View detailed Ecoregion map

Washington, D.C.

View detailed Ecoregion map

Define your site conditions >

ECOLOGICAL ZONES

in depth

RELATED WEB LINKS

Western Regional Climate Center

USDA Western Soil Survey

PRISM Global Precipitation

USEPA Western Ecology Ecoregions

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## Selecting your plant species

Intra meaus iusto loquam nescitd glibus qui, luctus foras has nobis erat delent. Lobortis dignism plaqa renefo volutpat vero ut melior autem valetudo romis.

### Ecological Zone 7 – Washington, D.C.

<b>COMMUNITY 1: MOIST CONDITIONS</b> (average soils) <a href="#">top</a>		
Botanical Name	Common Name	
Tree Quercus phellos	Willow Oak	
Shrub Cornus amomum	Silly Dogwood	
Ferb Rubackia hirta	Black-Eyed Susan	
Grass Andropogon virginicus	Broomsedge	

<b>COMMUNITY 2: DRY CONDITIONS</b> (sunny, windy, sheep, sandy soils) <a href="#">top</a>		
Botanical Name	Common Name	
Tree Quercus coccinea	Scarlet Oak	
Shrub Rhus copallina	Shining Sumac	
Ferb Coreopsis verticillata	Threaded Coreopsis	

### PLANT SPECIES in depth

[RELATED WEBLINKS](#)

- Western Regional Climate Center
- USDA West Soil Survey
- USEPA Urban Precipitation
- USEPA Western Ecology Ecoregions

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## Interactive Visualization

To facilitate a deeper understanding of roadside revegetation, this Visualization tool demonstrates the stepwise process and illustrates potential results in different geographic zones over time. This tool is provided for educational and illustrative purposes only.

### Glacier, Montana



limiting factors

Top Soil

Soil Compaction

Soil Type

Rockiness

Soil Depth

Biological Pests

Slope:
 

☒ 1:3
 ☐ 1:1

Sward Aspect:
 

☐ SouthWest
 ☒ NorthEast

Year

Ecological Zone

0

1

5

20

WEST

MOUNTAIN

EAST