



CONSERVATION ENHANCEMENT ACTIVITY

E580B

CONSERVATION STEWARDSHIP PROGRAM

Stream corridor bank vegetation improvement

Conservation Practice 580: Streambank and shoreline protection

APPLICABLE LAND USE: Crop (Annual & Mixed); Crop (Perennial); Pasture; Range; Forest; Farmstead; Associated Ag Land

RESOURCE CONCERN: Animals

ENHANCEMENT LIFE SPAN: 20 years

Enhancement Description

Stream corridor bank vegetation components are established to improve ecosystem functioning and stability.

Criteria

- This enhancement can be applied to streambanks and adjacent floodplain/riparian area of natural channels where the channel is susceptible to erosion.
- Stream corridor vegetative components shall be established as necessary for ecosystem functioning and stability. The appropriate composition of vegetative components is a key element in preventing excess long-term channel migration in re-established stream corridors.
- Establishment of vegetation on channel banks and associated areas shall also be in accordance with NRCS Conservation Practice Standard Critical Area Planting (Code 342).
- Utilize vegetative species that are native and/or compatible with local ecosystems. Avoid introduced, invasive, noxious or exotic species that could become nuisances.
- Select plant materials that provide habitat requirements for desirable wildlife and pollinators.

E580B-Stream corridor bank vegetation improvement	July 2019	Page 1
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CONSERVATION STEWARDSHIP PROGRAM

- Treatments shall be designed to achieve habitat and population objectives for fish and wildlife species or communities of concern as determined by a site-specific assessment or management plan. Objectives shall be based on the survival and reproductive needs of populations and communities, which include habitat diversity, habitat linkages, daily and seasonal habitat ranges, limiting factors and native plant communities.
- The type, amount, and distribution of vegetation shall be based on the requirements of the fish and wildlife species or communities of concern to the extent possible.
- Treatments shall be designed to meet aesthetic objectives as determined by a site-specific assessment or management plan. Aesthetic objectives shall be based on human needs, including visual quality, noise control, and microclimate control.
- Construction materials, grading practices, and other site development elements shall be selected and designed to be compatible with adjacent land uses.
- Treatments shall be designed to achieve recreation objectives as determined by a site-specific assessment or management plan. Safety requirements shall be based on type of human use and recreation objectives.
- Livestock exclusion shall be considered during establishment of vegetative treatments and appropriate grazing practices applied after establishment to maintain plant community integrity. Wildlife may also need to be controlled during establishment of vegetative treatments. Temporary and local population control methods should be used with caution and within state and local regulations.
- Design the stream corridor and bank vegetation enhancement for an expected life of at least 20 years.



CONSERVATION STEWARDSHIP PROGRAM

Documentation and Implementation Requirements

Participant will:

- Prior to implementation, prepare the planned acres for tree or shrub establishment. Refer to NRCS Conservation Practice Standards Streambank and Shoreline Protection (Code 580) and Critical Area Planting (Code 342). (NRCS will provide technical assistance, as needed.)
- Prior to implementation, select a combination of deep-rooted trees and shrubs appropriate for preventing bank erosion, promoting sedimentation, and limiting long-term channel migration. These plant materials should also provide habitat for wildlife, pollinators, and fish species as determined by a site-specific assessment or management plan (NRCS will provide technical assistance, as needed.)

Plant Species / Type	Number	Planted for what wildlife, pollinators, fish:

- Prior to implementation, select arrangement and spacing design to maximize erosion control and planting techniques and timing appropriate for the site and soil conditions. (NRCS will provide technical assistance, as needed.)

TASKS	Species/Type	Species/Type	Species/Type	Species/Type	Species/Type
Planting Date					
Planting Technique					
Arrangement/Spacing					

- During implementation, use erosion control methods based upon specifications developed for the site.
- After implementation, protect the area from livestock until vegetation is well-established, and, if necessary, control wildlife access within state and local regulations.
- After implementation, conduct inspections after high flows and undertake prompt actions if there is excessive streambank or streambed instability or erosion.



CONSERVATION STEWARDSHIP PROGRAM

NRCS will:

- As needed, provide technical assistance to meet the criteria of the enhancement.
- Prior to implementation, verify the enhancement is planned for acres that have been appropriately graded and prepared for tree and shrub establishment. Refer to NRCS Conservation Practice Standard Critical Area Planting (Code 342).
- Prior to implementation, verify no plants on the Federal or state noxious weeds list are included.
- As needed, prior to implementation, NRCS will provide technical assistance:
 - Developing a Wildlife Habitat Management Plan for targeted suite of species.
 - Meeting with participant to review the Wildlife Habitat Management Plan and plan and specifications.
 - Selecting a combination of appropriate, deep-rooted tree and shrub species for preventing bank erosion, promoting sedimentation, and limiting long-term channel migration and achieving habitat and species objectives.
 - Selecting appropriate arrangement and spacing design to maximize erosion control and planting techniques and timing appropriate for the site and soil conditions.
 - Planning the use of additional erosion control, as needed for the site.
 - Preparing specifications for applying this enhancement using approved specification sheets, job sheets, technical notes, and narrative statements in the conservation plan, or other acceptable documentation.
- During implementation, verify all erosion control needed for the site is functioning and is maintained to specifications developed for the site.
- During implementation, evaluate any planned changes to verify they meet the enhancement criteria.
- After implementation, verify the planned trees and shrub species were established to specifications developed for the site.
- After implementation, verify the planting is protected from livestock and, as necessary, from wildlife.
- After implementation, verify planned erosion control provided by the site is functioning and is maintained to specifications developed for the site.

E580B-Stream corridor bank vegetation improvement	July 2019	Page 4
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NRCS Documentation Review:

I have reviewed all required participant documentation and have determined the participant has implemented the enhancement and met all criteria and requirements.

**CONSERVATION
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Participant Name _____ Contract Number _____

Total Amount Applied _____ Fiscal Year Completed _____

NRCS Technical Adequacy Signature Date





WASHINGTON SUPPLEMENT TO CONSERVATION ENHANCEMENT ACTIVITY E580B

CONSERVATION STEWARDSHIP PROGRAM

Additional Criteria for Washington

- In addition to the criteria specified in the National job sheet E580B the following guidance and criteria apply in Washington:
 - Use the *Stream Visual Assessment Protocol 2 (SVAP2)* to evaluate instream conditions, including bank and channel stability and current habitat conditions, and to help define treatment objectives.
SVAP2 is available in: Washington FOTG Section 3/Resource Planning Criteria for RMS/Conservation Tools.
 - Use *Biology Technical Note 14 Wildlife Habitat Evaluation Guide (WHEG), Riparian* tab, to assess riparian habitat conditions. This and its other landuse/habitat tabs, when needed, may be used to evaluate and score *general* wildlife habitat conditions in those landuses. However, when WHEGs specific to the wildlife of interest (see below) are available, such WHEGs should be used rather than Bio TN 14.
Bio Tech Note 14, as well as the other Biology Tech Notes listed below, are all available in:
Washington FOTG Section 1/Reference Lists/Technical Notes by Discipline/Biology.
 - The following WHEGs should be used to assess habitat conditions for pollinators and/or for beneficial insects (note applicable habitat or landuse types):
 - *Biology Technical Note 30 Beneficial Insect Habitat Assessment Form and Guide - Farms and Agricultural Landscapes* (also: farmsteads, associated ag lands)
 - *Biology Technical Note 31 Pollinator Habitat Assessment Form and Guide - Farms and Agricultural Landscapes* (also: farmsteads, associated ag lands)
 - *Biology Technical Note 32 Pollinator Habitat Assessment Form and Guide - Natural Areas and Rangelands.* (also: forestlands)



CONSERVATION STEWARDSHIP PROGRAM

- Use the following sources to identify suitable plant species for pollinators and beneficial insects:
 - For locations west of the Cascades, see: *Biology Technical Note 33, Native Plants for Pollinators and Beneficial Insects in the Maritime Northwest Region.*
 - For locations east of the Cascades, see: *Biology Technical Note 24, Plants for Pollinators in the Inland Northwest.*
 - Further species that *may* be suitable for sites in either eastern or western Washington State may be found in Oregon’s *Plant Materials Technical Note No. 13 Plants for Pollinators in Oregon*; however, if using this source first confirm that the plants occur in the same major land resource area (MLRA) as your area of Washington to avoid Oregon species that might be wholly incompatible here. (Oregon’s MLRAs can be found in eFOTG under: Oregon/ Section I/Maps/ General.)
- Contact the NRCS State or Area Biologist for recommendations for assessing habitats for other specie of concern, or if you have questions about plant species selection or other aspects of applying the criteria in this supplement to the enhancement.