

RESOURCE: PLANTS

Urban Conservation Practice Physical Effects

CONSIDERATIONS:		(1) QUANTITY		(2) CONDITION	(3) MANAGEMENT					
ASPECTS/ PROBLEMS		PLANTS ARE NOT WELL ADAPTED TO SITE	PLANTS ARE UNSUITABLE FOR INTENDED USE	HEALTH AND VIGOR	ESTABLISHMENT, GROWTH, AND HARVEST	NUTRIENT MANAGEMENT	PESTS (BRUSH, WEEDS, INSECTS, DISEASES, AND FUNGI)			
PRACTICE										
TYPE OF PRACTICE	RESOURCE PROBLEM/ CONSIDERATIONS DEFINITION	Plants are not adapted to soil and climatic conditions of the area. (Select a better adapted species or modify site conditions.)	Plant of concern does not meet the needs and objectives of the manager, such as by providing quantity and quality of desired food or forage, controlling erosion, improved soil condition, conserving water, adding beauty, providing habitat for animals.	Plants do not manufacture sufficient plant food to continue the growth cycle or to reproduce.	The management scheme or plan does not provide the proper techniques and timing to meet the plant needs of establishment, growth, and harvest.	The correct amount of plant nutrients are not available to meet plant needs.	Pests are not managed to meet the needs of the plants of concern and the manager's objectives and resource management objectives.			
PRACTICE CODE AND NAME	OTHER EXPLANATIONS									
800 - Urban Stormwater Wetlands	A constructed system of shallow pools that create growing conditions for wetland plants to lessen the impacts of stormwater quality and quantity in urban areas.	Moderate to significant decrease because of establishment of adapted vegetation, creation of impoundments, and manipulation of water levels.	Moderate to significant decrease because of establishment of desired vegetation.	Moderate to significant decrease because of creation of impoundments and manipulation of water levels.	Moderate to significant decrease because of creation of impoundments and/or manipulation of water levels resulting in increased productivity of wetland plants.	Not applicable.	Moderate to significant decrease because permanent adapted vegetation will result in less pests and active management will control pests.			
806 - Construction Road Stabilization	The stabilization of temporary construction access routes, subdivision roads, on-site vehicle transportation roads, and construction parking areas with stone immediately after grading.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.			
808 - Culvert Inlet Protection	A temporary sediment filter located at the inlet to storm sewer culverts.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.			
815 - Diversion	A channel and supporting ridge constructed across the slope to collect and divert runoff.	Slight to significant decrease because of change in available moisture.	Not applicable.	Slight to moderate decrease because of reduced stress from excess water.	Significant decrease because of improvement in area protected by diversion.	Not applicable.	Slight increase because of improved pest habitat on vegetated diversions.			
820 - Diversion Dike	A dike or dike and channel constructed along the perimeter of a disturbed construction area.	Negligible to significant decrease because of site modification from flood water management.	Not applicable.	Slight to significant decrease because of improved soil, water, and plant relationship due to water management.	Slight to significant decrease because of improved soil, water, and plant relationship due to water management.	Not applicable.	Negligible.			

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PRACTICE CODE AND NAME	OTHER EXPLANATIONS									
825 - Dust Control	Controlling dust blowing and movement on construction sites and roads.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.			
830 - Erosion Blanket	The application of a preformed protective blanket of straw or other plant residue, or plastic fibers formed into a mat, usually with a plastic mesh on one or both sides.	Not applicable.	Not applicable.	Slight decrease due to protection of young plants and moisture conservation provided by erosion blanket.	Slight decrease due to protection of young plants and moisture conservation provided by erosion blanket.	Negligible.	Moderate to significant decrease due to protection of young plants.			
835 - Filter Strip	A created or preserved area of vegetation designed to remove sediment and other pollutants and to enhance the infiltration of surface water runoff.	Significant decrease because of proper plant selection.	Significant decrease because of proper plant selection.	Slight decrease because of erosion control. Slight increase because of deposition within the filter strip.	Not applicable.	Not applicable.	Slight to moderate increase because of improved habitat for pests.			
840 - Grass-Lined Channel	A natural or constructed channel that is shaped or graded to required dimensions and established with suitable vegetation for stable conveyance of runoff.	Significant decrease because of proper plant selection and site modification.	Significant decrease because of proper plant selection.	Slight decrease because of erosion control. Slight increase because of deposition within the waterway.	Slight decrease because of improved farmability.	Not applicable.	Slight increase or decrease because of improved habitat for pests as well as beneficial organisms.			
841 - Impoundment Structure-Full Flow	A dam or excavation which creates an impoundment to collect and store debris, sediment, or water.	Not applicable.	Not applicable.	Moderate to significant decrease when used to facilitate grazing management.	Slight to significant decrease when used to facilitate grazing management.	Not applicable.	Negligible.			

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842 - Impoundment Structure-Routed	A dam or excavation which creates an impoundment to collect and store debris, sediment, or water.	Not applicable.	Not applicable.	Moderate to significant decrease when used to facilitate grazing management.	Slight to significant decrease when used to facilitate grazing management.	Not applicable.	Negligible.			
847 - Infiltration Trench	An excavated trench filled with coarse granular material in which stormwater runoff is collected for temporary storage and infiltration.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.			
850 - Inlet Protection-Block and Gravel	A sediment control barrier formed around a storm drain inlet by the use of standard concrete blocks and gravel.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.			
855 - Inlet Protection-Excavated Drain	An excavated area in the approach to a storm drain drop inlet or curb inlet.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.			
860 - Inlet Protection-Fabric Drop	A temporary fabric barrier placed around a drop inlet.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.			

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861 - Inlet Protection-Gravel & Wire Mesh	A temporary sediment control barrier formed around a storm drain inlet by the use of gravel and wire mesh.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.			
862 - Inlet Protection-Sod Filter	A sediment filter formed around a storm drain drop inlet by the use of sod.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.			
863 - Inlet Protection-Straw Bale Barrier	A temporary sediment control barrier formed around a storm drain drop inlet consisting of a row of entrenched and anchored straw bales.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.			
865 - Land Grading	Reshaping the ground surface to planned grades as determined by engineering survey evaluation and layout.	Slight to significant decrease because of improved water, soil, and air relationship.	Slight to significant decrease because of improved water, soil, and air relationship.	Slight to significant decrease because of improved water, soil, and air relationship.	Significant decrease because of improved water management.	Slight decrease because of improved soil, water, and air relationship.	Slight decrease because of uniformity of management.			
870 - Level Spreader	A device used to disperse concentrated runoff over the ground surface as sheet flow.	Slight to significant decrease due to change in soil moisture conditions.	Not applicable.	Slight decrease due to reduced plant damage and stress from uniformly dispersed water.	Negligible.	Not applicable.	Not applicable.			

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875 - Mulching	The application of plant residues and other suitable materials to the soil surface.	Slight to moderate decrease because of improved site conditions.	Not applicable.	Slight to moderate decrease because of improved site conditions.	Slight to moderate decrease because of improved site conditions.	Slight to moderate decrease because of increased infiltration and water use.	Negligible to slight decrease because of return of weed competition. Negligible to slight increase because of improved habitat for other pests.			
880 - Permanent Vegetation	Establishing permanent vegetative cover to stabilize disturbed or exposed areas.	Significant decrease because of proper plant selection and nutrient modification of site.	Significant decrease because of proper plant selection.	Significant decrease because of improved vegetation management and plant selection.	Significant decrease because of proper selection of plants and management.	Moderate to significant decrease because of properly managed plant needs.	Not applicable.			
890 - Permeable Pavement	A pavement consisting of materials having regularly interspersed void areas filled with pervious materials, such as vegetated soil, gravel or sand.	Slight decrease due to proper plant selection where void areas are filled with sod.	Slight decrease due to proper plant selection where void areas are filled with sod.	Slight decrease due to proper plant selection where void areas are filled with sod.	Slight decrease due to proper plant selection where void areas are filled with sod.	Moderate to significant decrease because of properly managed plant needs.	Not applicable.			
895 - Portable Sediment Tank	A compartmented container through which sediment-laden water is pumped to trap and retain the sediment.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.			
900 - Right-of-Way Diversion	A ridge or ridge and channel constructed diagonally across a sloping road or utility right-of-way that is subject to erosion.	Slight to significant decrease because of change in available moisture.	Not applicable.	Slight to moderate decrease because of reduced stress from excess water.	Significant decrease because of improvement in area protected by diversion.	Not applicable.	Slight increase because of improved pest habitat on vegetated diversions.			

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905 - Rock Check Dam	A small rock dam constructed across a grassed swale or road ditch.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.			
910 - Rock Outlet Protection	A section of rock protection placed at the outlet end of culverts, conduits, or channels.	Moderate to significant decrease because of site modification by structure and stabilization for vegetative establishment and growth.	Not applicable.	Negligible.	Moderate to significant decrease because of site modification by structure and stabilization for vegetative establishment and growth.	Not applicable.	Not applicable.			
920 - Silt Fence	A temporary barrier of entrenched geotextile fabric stretched across and attached to supporting posts used to intercept sediment-laden runoff from small drainage areas of disturbed soil.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.			
925 - Sodding	Stabilization of fine graded disturbed areas by laying a continuous cover of grass sod.	Significant decrease because of proper plant selection and nutrient modification of site.	Significant decrease because of proper plant selection.	Significant decrease because of improved vegetative management and plant selection.	Significant decrease because of proper selection of plants and management.	Moderate to significant decrease because of properly managed plant needs.	Not applicable.			
930 - Stabilized Construction Entrance	A stabilized pad of aggregate underlain with filter fabric at any point where traffic enters or leaves a construction site to or from a public right-of-way, street, alley or parking area.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.			

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935 - Straw Bale Barrier	A temporary barrier of entrenched and anchored straw bales used to intercept sediment-laden runoff from small drainage areas of disturbed soil.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.			
940 - Structural Streambank Stabilization	Stabilization of eroding streambanks by use of designed structural measures.	Slight to moderate decrease due to stabilized bank creating suitable site conditions for plant growth where vegetative plantings are included with structural measures.	Slight to moderate decrease due to stabilized bank creating suitable site conditions for plant growth where vegetative plantings are included with structural measures.	Slight to moderate decrease due to stabilized bank creating suitable site conditions for plant growth where vegetative plantings are included with structural measures.	Slight to moderate decrease due to stabilized bank creating suitable site conditions for plant growth where vegetative plantings are included with structural measures.	Not applicable.	Not applicable.			
945 - Subsurface Drain	A conduit, such as corrugated plastic tubing, tile, or pipe, installed beneath the ground surface to collect and/or convey drainage water.	Slight to significant increase for non-hydrophytic plants and significant decrease for hydrophytic plants because subsurface water is removed from the soil profile.	Not applicable.	Slight to significant increase for non-hydrophytic plants and significant decrease for hydrophytic plants because subsurface water is removed from the soil profile.	Slight to significant decrease because subsurface water is removed from the soil profile.	Not applicable.	Slight to moderate decrease in aquatic pests and significant increase in terrestrial pests because subsurface water is removed from the soil profile.			
950 - Sump Pit	A temporary pit constructed to trap and filter water for pumping into a suitable discharge area.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.			
953 - Surface Roughening	A rough soil surface with horizontal grooves running across the slope on the contour, stair stepping, or tracking with construction equipment.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.			

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955 - Temporary Diversion	A temporary ridge or excavated channel or combination ridge and channel constructed across sloping land on a predetermined grade.	Slight to significant decrease because of change in available moisture.	Not applicable.	Slight to moderate decrease because of reduced stress from excess water.	Significant decrease because of improvement in area protected by diversion.	Not applicable.	Slight increase because of improved pest habitat on vegetated diversions.			
960 - Temporary Sediment Trap	A small temporary ponding basin formed by construction of an embankment or excavated basin.	Not applicable.	Not applicable.	Negligible to slight decrease below basin when trapped sediment is kept off field.	Negligible to slight decrease below basin when trapped sediment is kept off field.	Negligible.	Negligible to slight increase or decrease because of trapped seeds and/or weeds growing on the basin.			
965 - Temporary Seeding	Planting rapid-growing annual grasses or small grains to provide initial, temporary coverage for erosion control on disturbed areas.	Significant decrease because of proper plant selection and nutrient modification of site.	Significant decrease because of proper plant selection.	Significant decrease because of improved vegetative management and plant selection.	Significant decrease because of proper selection of plants and management.	Moderate to significant decrease because of properly managed plant needs.	Not applicable.			
970 - Temporary Slope Drain	A flexible tubing or rigid conduit extending temporarily from the top to the bottom of a cut or fill slope.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.			
975 - Temporary Stream Crossing	A bridge, ford, or temporary structure installed across a stream or watercourse for short-term use by construction vehicles or heavy equipment.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.			

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980 - Temporary Swale	A temporary excavated drainageway.	Significant decrease because of proper plant selection and site modification.	Significant decrease because of proper plant selection.	Slight decrease because of erosion control. Slight increase because of deposition within the waterway.	Slight decrease because of improved farmability.	Not applicable.	Slight increase or decrease because of improved habitat for pests as well as beneficial organisms.			
981 - Topsoiling	Methods of preserving and using topsoil to enhance final site stabilization with vegetation.	Moderate to significant decrease because of selecting proper plants and soil modification.	Significant decrease because of selecting proper plants.	Significant decrease because of selecting proper plants and soil modification.	Moderate to significant decrease because of selecting proper plants and soil modification.	Slight to moderate decrease because of soil modification.	Negligible.			
984 - Tree and Forest Ecosystem Preservation	The preservation of contiguous stands of trees from damage during construction operations.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.			
985 - Tree and Shrub Planting	Planting of selected trees and shrubs.	Moderate to significant decrease because of proper species selection.	Moderate to significant decrease because of proper species selection.	Not applicable.	Moderate to significant decrease because of proper species selection and planting techniques.	Moderate to significant decrease because of application of needed plant nutrients.	Moderate to significant decrease because of control of pests for establishment of trees.			
990 - Tree Protection	The protection of individual trees from damage during construction operations.	Not applicable.	Not applicable.	Significant decrease due to reduced damage provided by protective measures.	Moderate to significant decrease due to reduced damage provided by protective measures.	Not applicable.	Negligible.			

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991 - Tree Protection - Augering	Underground construction such as utility work by augering (tunneling) through an individual tree's Critical Root Zone (CRZ).	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.			
995 - Vegetative Streambank Stabilization	The stabilization and protection of eroding streambanks with selected vegetation.	Significant decrease because of selection of adapted species and site modification.	Slight to significant decrease because of potential to introduce new plant type and stabilizes streambank for existing plants.	Negligible to moderate decrease because of improved environment for plant growth.	Negligible.	Negligible.	Negligible.			
996 - Well Decommissioning	The sealing and permanent closure of a water well, boring, or monitoring well.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.	Not determined yet.			