

Practice: 658 - Wetland Creation

Scenario: #3 - Shallow Water Areas

Scenario Description:

This scenario addresses inadequate habitat for fish and wildlife on all suitable lands. The resource concern is addressed by providing shallow water habitat for wildlife such as shorebirds, waterfowl, wading birds, mammals, fish, reptiles, amphibians, and other species that require shallow water for at least part of their life cycle. The creation and establishment of a small pool for temporary to semi-permanent water during portions of the growing and non-growing season for wildlife that require shallow to moderately deep water for at least part of their life cycle. Typical settings are gentle to rolling terrain in agricultural settings. The typical size is 0.5 acres consisting of variable depths up to a maximum depth of depth 3'. Side slopes are 6:1 or flatter. Soils are somewhat poorly to moderately well drained. Ingress and egress as well as disturbance is typically sewn to an annual cover and mulched with clean straw and allowed to revegetate under natural conditions. Water is either ponded or managed by installation of a water control structure through a 3.0' berm, 8' top width, 4:1 SS min, 200 Lin. ft. low berm (444 CY), using on-site material (not included). Soils have low permeability or moderately well to poorly drained. Associated practices expected to be included are Critical Area Treatment (342) and Mulching (484) and (587) Structure for Water Control.

Before Situation:

Wildlife have access to moderatley shallow water during the year. Water is typically not managed through regular manipulation; or managed and ponded behind a dike where a 18" dia. flashboard riser with a 12" CMP under 3.0' berm, 8' top width, 6:1 SS, 250 Lin. Ft. berm, using on-site material, for establisishing shallow water habitat for wildlife that require shallow water for at least part of their life cycle. (Not included as part of this scenario)

After Situation:

Topography has been altered slightly to pond or inundate a relatively small area. Wildlife such as amphibians or reptiles and water is retained longer on the site providing habitat for at least part of their life cycle. Adjacent cover may be enhancedd by supporting practices. The hydrologic conditions of ponding and saturation (frequency, depth, duration, timing) provides optimum seasonal habitat for waterfowl, shorebirds, and other wildlife (amphibians, reptiles, mammals, invertebrates, etc.). Depending on local conditions, other Conservation Practices may also be required.

Scenario Feature Measure: area of created pool

Scenario Unit: Acre

Scenario Typical Size: 0

Scenario Cost: \$1,810.68

Scenario Cost/Unit: #Div/0!

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Dozer, 140 HP	927	Track mounted Dozer with horsepower range of 125 to 160. Equipment and power unit costs. Labor not included.	Hour	\$125.42	5	\$627.10
Earthfill, Roller Compacted	49	Earthfill, roller or machine compacted, includes equipment and labor	Cubic yard	\$3.69	150	\$553.50
Labor						
Equipment Operators, Heavy	233	Includes: Cranes, Hydraulic Excavators >=50 HP, Dozers, Paving Machines, Rock Trenchers, Trenchers >=12", Dump Trucks, Ag Equipment >=150 HP, Scrapers, Water Wagons.	Hour	\$22.84	5	\$114.20
Mobilization						
Mobilization, medium equipment	1139	Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$257.94	2	\$515.88