

2011 Component Cost Definitions

Earthmoving

Code	Component	Units	Definiton
1	Earthfill, compacted Large (dams, dikes)	cu yd	Earthfill, compacted Large (dams, dikes) (cu yd)- The cost of the earthmoving, earth placement and labor required to build a dam, dike, or similar structure. Measurement and pay limits are: a) lower limit is the original ground surface as it existed prior to the start of construction operations, b) upper and lateral limits are the specified neat lines (constructed fill) as shown on the drawings of the practice. The pay volume does not include core (cutoff) trench excavation and backfill or foundation stripping and backfill. The cost of the structure includes the cost of excavation and backfill of core (cutoff) trenches, pipe backfill, structure backfill, borrow excavation, on site borrow hauling, and other necessary excavation and backfill or topsoiling. The cost of the listed activities divided by the pay volume results in the average cost per unit. Use this component when earthfill quantity is more than 2000 cubic yards. Not applicable to wetland water management levee. UPDATED COMPONENT NAME AND DEFINITION 8/2009.
2	Earthfill, compacted small (dams, dikes)	cu yd	Earthfill, compacted small (dams,dikes) (cu yd) – The cost of the earthmoving, earth placement and labor required to build a dam, dike, or similar structure. Measurement and pay limits are: a) lower limit is the original ground surface as it existed prior to the start of construction operations, b) upper and lateral limits are the specified neat lines (constructed fill) as shown on the drawings of the practice. The pay volume does not include core (cutoff) trench excavation and backfill or foundation stripping and backfill. The cost of the structure includes the cost of excavation and backfill of core (cutoff) trenches, pipe backfill, structure backfill, borrow excavation, on site borrow hauling, and other necessary excavation and backfill or topsoiling. The cost of the listed activities divided by the pay volume results in the average cost per unit. Use this component when earthfill quantity is 2000 cubic yards or less. Not applicable to wetland water management levee. UPDATED COMPONENT NAME AND DEFINITION 8/2009.
964	Earthfill, compacted medium (diversions, wascobs)	cu yd	Earthfill, Compacted medium (diversions, wascobs) - cu yd - The cost of earthmoving, earth placement and labor to build a diversions or wascob or similar structure. The borrow area is generally closer to the fill area than a typical grade stabilization structure. The pay volume does noe include foundation stripping and backfill volume. The cost of the structure includes pipe backfill, structure backfill, borrow excavation, on site borrow hauling and other necessary excavation and backfill or topsoiling. The cost of the listed activities divided by pay volume results in the average costs per unit. NEW COMPONENT AND DEFINITION ADDED 8/2009.
3	Grading & Shaping Light CAT	ac	Grading & Shaping Light CAT (ac) - The cost of using a tractor and blade or other such equipment to smooth out small gullies in preparation for seeding a filter strip or pasture or similar critical area treatment (CAT). UPDATED DEFINITION 8/2006.
4	Grading & Shaping Medium CAT	ac	Grading & Shaping Medium CAT (ac) - The cost of using a back hoe, small dozer or other such equipment to smooth out gullies in preparation for seeding a filter strip or pasture or similar critical area treatment (CAT). UPDATED DEFINITION 8/2006.
5	Grading & Shaping Heavy CAT	ac	Grading & Shaping Heavy CAT (ac) - The cost of using a bull dozer, track-hoe or other such equipment to smooth out larger gullies in preparation for seeding a filter strip, pasture or similar critical area treatment (CAT). UPDATED DEFINITION 8/2006.
6	Levee Removal	cu yd	Levee Removal (cu yd) - The cost for all machinery and labor required to remove a levee and spoil the soil on the surrounding area. UPDATED UNITS 7/2006
7	Side Inlet Drainage Structure, 0ft.-8ft. fill	ft	Side Inlet Drainage Structure (ft) The cost of the earthmoving, earth placement, pipe backfill, and labor required for the installation of a side inlet drop structure.
8	Side Inlet Drainage Structure, 8.1ft.-10ft. fill	ft	Side Inlet Drainage Structure (ft) The cost of the earthmoving, earth placement, pipe backfill, and labor required for the installation of a side inlet drop structure.
9	Side Inlet Drainage Structure, 10.1ft.-12ft. fill	ft	Side Inlet Drainage Structure (ft) The cost of the earthmoving, earth placement, pipe backfill, and labor required for the installation of a side inlet drop structure.
10	Side Inlet Drainage Structure, 12.1ft.-14ft. fill	ft	Side Inlet Drainage Structure (ft) The cost of the earthmoving, earth placement, pipe backfill, and labor required for the installation of a side inlet drop structure.
11	Side Inlet Drainage Structure, 14.1ft.-16ft. fill	ft	Side Inlet Drainage Structure (ft) The cost of the earthmoving, earth placement, pipe backfill, and labor required for the installation of a side inlet drop structure.
12	Side Inlet Drainage Structure, 16.1ft.+ fill	ft	Side Inlet Drainage Structure (ft) The cost of the earthmoving, earth placement, pipe backfill, and labor required for the installation of a side inlet drop structure.
13	Temporary Berm Removal	ft	Temporary Berm Removal (ft) - The cost of removing a temporary berm and spreading the soil over the adjacent area at an even grade that will allow the waterway or similar practice to function as designed.

14	Terrace Broadbase nonparallel w/ closed outlet (UG)	lin ft	Terrace (lin ft) - The cost of labor, site preparation, earthfill, excavation, and finishing and labor required to complete the practice. Payment is made by the length of constructed terrace, in feet (ft). Terrace cost payment does not include conduits, risers, appurtenances, trenching or backfilling for underground outlets and topsoiling.
15	Terrace Broadbase nonparallel w/ open outlet (water)	lin ft	Terrace (lin ft) - The cost of labor, site preparation, earthfill, excavation, and finishing and labor required to complete the practice. Payment is made by the length of constructed terrace, in feet (ft). Terrace cost payment does not include conduits, risers, appurtenances, trenching or backfilling for underground outlets and topsoiling.
16	Terrace Broadbase parallel w/ closed outlet (UGO)	lin ft	Terrace (lin ft) - The cost of labor, site preparation, earthfill, excavation, and finishing and labor required to complete the practice. Payment is made by the length of constructed terrace, in feet (ft). Terrace cost payment does not include conduits, risers, appurtenances, trenching or backfilling for underground outlets and topsoiling.
17	Terrace Broadbase parallel w/ open outlet (waterway)	lin ft	Terrace (lin ft) - The cost of labor, site preparation, earthfill, excavation, and finishing and labor required to complete the practice. Payment is made by the length of constructed terrace, in feet (ft). Terrace cost payment does not include conduits, risers, appurtenances, trenching or backfilling for underground outlets and topsoiling.
18	Terrace Narrowbase w/ closed outlet (UGO)	lin ft	Terrace (lin ft) - The cost of labor, site preparation, earthfill, excavation, and finishing and labor required to complete the practice. Payment is made by the length of constructed terrace, in feet (ft). Terrace cost payment does not include conduits, risers, appurtenances, trenching or backfilling for underground outlets and topsoiling.
19	Terrace Narrowbase w/ open outlet (waterway)	lin ft	Terrace (lin ft) - The cost of labor, site preparation, earthfill, excavation, and finishing and labor required to complete the practice. Payment is made by the length of constructed terrace, in feet (ft). Terrace cost payment does not include conduits, risers, appurtenances, trenching or backfilling for underground outlets and topsoiling.
20	Terrace Steep Backslope w/ closed outlet (UGO)	lin ft	Terrace (lin ft) - The cost of labor, site preparation, earthfill, excavation, and finishing and labor required to complete the practice. Payment is made by the length of constructed terrace, in feet (ft). Terrace cost payment does not include conduits, risers, appurtenances, trenching or backfilling for underground outlets and topsoiling.
21	Terrace Steep Backslope w/ open outlet (waterway)	lin ft	Terrace (lin ft) - The cost of labor, site preparation, earthfill, excavation, and finishing and labor required to complete the practice. Payment is made by the length of constructed terrace, in feet (ft). Terrace cost payment does not include conduits, risers, appurtenances, trenching or backfilling for underground outlets and topsoiling.
22	Top Soil For Terrace	lin ft	Top soil for Terrace (lin ft) - The cost of salvaging, stockpiling and spreading of the top soil within the limits of excavated channel and terrace ridge footprint as required by the conservation practice standard.
23	Waterway	ac	Waterway (ac) - The cost of the earthfill, excavation, grading, shaping, topsoiling, and labor required to complete the practice. Cost also includes the installation of permanent and temporary berms and dikes required by the design. Pay limits are the design top width of the waterway multiplied by the length to the outlet end of the waterway as shown on the drawings. Payment is made by the area, in acres, of the constructed waterway.
24	Waterway (2)	cu yd	Waterway (2) (cu yd) - The cost of the earthfill, excavation, grading, shaping, topsoiling, and labor required to complete the practice. Cost also includes the installation of permanent and temporary berms and dikes required by the design. Measurement and pay limits are: a) upper limit is the original ground surface as it existed prior to the start of construction operations, b) lower limits are the specified neat lines as shown on the drawings within the design top width dimension. Payment is made by the cubic yard (CY) of excavation for the practice.
941	Forest Trails and Landings 0-15% slope	ac	Forest Trails and Landings 0-15% slope (ac) - The cost of machinery and labor to establish water bars or broadbase dips as needed for the development of a route, travel-way, or cleared area within a forest to provide access to forest stands and recreation activities. NEW COMPONENT AND DEFINITION ADDED 1/2009.
942	Forest Trails and Landings >15% slope	ac	Forest Trails and Landings >15% slope (ac) - The cost of machinery and labor to establish water bars or broadbase dips as needed for the development of a route, travel-way, or cleared area within a forest to provide access to forest stands and recreation activities. NEW COMPONENT AND DEFINITION ADDED 1/2009.

Fence

Code	Component	Units	Definition
25	Fence - 1-wire hi-tensile electric	ft	Fence- 1 wire hi-tensile electric (ft)-The cost of all materials and labor required for the installation of a one wire hi-tensile permanent electric fence. Includes electric gates and underground cable. Does not include the cost of obtaining or accessing a power source. UPDATED DEFINITION 8/2006
26	Fence - Each Additional Wire OR Electric Offset Wire (hi-tensile)	ft	Fence - Each Additional Wire OR Electric Offset Wire (hi-tensile) (ft) - The cost for hi-tensile wire, insulators, offset brackets and labor required for additional fencing wire OR one-wire electric offset wire. The additional wire may only be used in cost share when the minimum extents require additional wire such as with calves, goats, sheep etc. Take this cost times the total additional feet of wire needed for the practice when figuring cost share. UPDATED COMPONENT NAME AND DEFINITION 8/2006.
27	Fence - 3-strand barbed wire	ft	Fence – 3 strand barbed wire (ft) - The cost of all materials and labor required for the installation of a permanent three strand barbed wire fence. All materials includes metal gates. UPDATED DEFINITION 8/2006.

28	Fence - Each Additional Wire (barbed)	ft	Fence - Each Additional Wire (barbed) (ft) - The cost for barbed wire, clips and labor required for additional fencing strand. This component may only be used in cost share when the minimum requirement requires additional wire such as with calves, goats, sheep etc. Take this cost times the total additional feet of wire needed for the practice when figuring cost share.
29	Fence - Woven wire	ft	Fence - Woven wire (ft) - The cost of all materials and labor required for the installation of a permanent woven wire fence. All materials includes metal gates. DEFINITION UPDATED 8/2006.
30	Cattle Panel	ft	Cattle Panel (ft) - The cost of cattle panel type fence, labor and posts needed to install the fence.
31	Electric fence energizer 1-5 joules	ea	Electric fence energizer 1-5 joules (ea) - The cost for one energizer with an out put of 1 to 5 joules.
32	Electric fence energizer 6-10 joules	ea	Electric fence energizer 6-10 joules (ea) - The cost for one energizer with an out put of 6 to 10 joules.
33	Electric fence energizer 11+ joules	ea	Electric fence energizer 11+ joules (ea) - The cost for one energizer with an out put of 11 or more joules.
34	Energizer Inst. & Acc. - AC powered	ea	Energizer installation and accessories -AC (ea) - Includes ground rods and clamps, Lightning arrestor, lightning choke, Induction loop (consisting of 30 ft. of insulated 12.5 gage wire), a surge protector, shut off switch and labor.
35	Energizer Inst. & Acc. - Solar powered	ea	Energizer installation and accessories -Solar (ea) - The cost of ground rods and clamps, Lightning arrestor, lightning choke, Induction loop (consisting of 30 ft. of insulated 12.5 gage wire), 12V deep cycle battery, a Solar Panel, shut off switch and labor.
36	Electric Water Gap	ft	Electric Water Gap (ft) - The cost of two corner posts, two strands of 12 1/2 gauge high tensile smooth wire, crimps, drops at 1 ft. spacing & flood control switch, and labor.
801	Fence-1 wire temporary	ft	Fence-1 wire temporary (ft)- The cost of all materials required for the installation of a one wire temporary fence (polywire/polytape with a minimum of 6 conductive wires). Does not include the cost of the energizer or of obtaining or accessing a power source.
802	Fence-Temporary Each Additional wire	ft	Fence-Temporary Each Additional wire (ft)-The cost of wire, reels, handles/connectors. Does not include posts. This component may only be used in cost share when the minimum extents require additional wires such as with calves, goats, sheep, etc.
803	Electric Fence Energizer less than 1 Joule for temporary fencing	ea	Electric fence energizer less than 1 joule for temporary fencing (ea)- The cost of 1 energizer and complete grounding kit, batteries and wiring kit. This component may be used for temporary fencing only in situations where power to the temporary fence cannot be supplied through existing sources. The energizer installation and accessory component can not be used in conjunction with this component.

General Construction Material

Code	Component	Units	Definiton
40	Bentonite	bag	Bentonite (bag) - The cost of one 50 lb bag of bentonite. Use the price for the most commonly used/readily available type.
41	Drain Tile Removal	ft	Drain Tile Removal (ft) - The cost for all machinery and labor required to dig up and remove drain tile from a field in preparation for wetland restoration.
47	Insitu Clay Pad	cu yd	Insitu Clay Pad (cu yd) - The cost of spreading on site clay so it can be used as a sealant, meeting standards and specifications.
48	Soda Ash	ton	Soda Ash (ton) - The cost of purchasing and placing soda ash that meets standards and specification as a sealant.
51	Gravel	ton	Gravel (ton) - The cost of one ton of 3" minus gravel delivered and placed. If practice design calls for medium filter material or medium drainfill, use Medium Filter material cost item in lieu of Gravel cost item.
52	Rock 3in. - 6in.	ton	Rock 3" to 6" (ton) - The cost of one ton of rock cobbles 3" to 6" in size delivered and placed.
53	Rip-rap	ton	Rip-rap (ton) - The cost of one ton of rock riprap greater than 6" in size delivered and placed.
55	Concrete (flat work)	cu yd	Concrete (flat work) (cu yd) - The cost of all materials, rebar, gravel, concrete, normal delivery, and labor required to form, place and finish one cubic yard of concrete flat work. Use for slabs-on-grade and similar non-structural flatwork.
56	Concrete (structural)	cu yd	Concrete (structural) (cu yd) - The cost of all materials, rebar, gravel, concrete, normal delivery, and labor required to form, place and finish one cubic yard of concrete structural work. Use for footings, foundations, walls, structural slabs (e.g. manure ramps and slabs over pits) and similar structural elements.
57	Concrete Blocks	ea	Concrete Blocks (ea) - The cost of one nominal 8"x8"x16" concrete block delivered to the site including the labor and materials required for installation.
59	Concrete Pad (prefabricated)	sq ft	Concrete Pad (prefabricated) (sq ft) - The cost of a prefabricated concrete pad commonly used under or near livestock watering facilities and in Heavy Use Protection areas. Concrete should be a minimum of 5" thick. Cost includes concrete, reinforcement, gravel under concrete, delivery and placement and any machinery time needed. Payment is based on the area of the pad in square foot. UPDATED COMPONENT NAME AND DEFINITION 8/2006.
60	Concrete Pumper Truck	ea	Concrete Pumper Truck (ea) - The cost for set up and placement of concrete using a pumper truck. This is used when it is necessary to reach remote areas and the use of a regular concrete truck is not possible.
61	Drop Inlet Fabrication	hr	Drop Inlet Fabrication (hr) - The hourly cost for the labor required for fabrication of steel Drop Inlets.

62	Off-site fill/borrow material	cu yd	Offsite borrow/fill material (cu yd) - The cost of off site soil, purchased and delivered, that will be used to create a berm, clay pad or fill in an area. UPDATED DEFINITION 8/2006.
63	Geotextile Fabric Light	sq yd	Geotextile Fabric (sq yd) - The cost of geotextile fabric, shipping, labor and equipment costs associated with placing the material on site. Light is less than 14 oz. Heavy is equal to or greater than 14 oz.
64	Geotextile Fabric Heavy	sq yd	Geotextile Fabric (sq yd) - The cost of geotextile fabric, shipping, labor and equipment costs associated with placing the material on site. Light is less than 14 oz. Heavy is equal to or greater than 14 oz.
70	Trenching and Backfilling <12in. pipe or tubing	ft	Trenching and Backfilling <12" (ft) - The cost of digging a trench in which to lay pipe less than 12" in diameter and backfilling over pipe.
71	Trenching and Backfilling >=12in. pipe or tubing	ft	Trenching and Backfilling >=12" (ft) - The cost of digging a trench in which to lay pipe greater than or equal to 12" in diameter and backfilling over pipe.
72	Nonmetallic Waterstop	ft	Nonmetallic Waterstop (ft) - The cost for a Nonmetallic Waterstop for use in joints of concrete structures.
717	Concrete - Vertical Drain Practice (630)	cu yd	Concrete - Vertical Drain Practice (cu yd)- The cost of one cubic yard of ready-mix concrete. Cost includes normal delivery, equipment and labor required to place concrete. This component is to be used ONLY with the Vertical Drain Practice (630). Concrete for all other practices should use Concrete (flatwork), Concrete (structural) or Concrete Pad cost components as appropriate. UPDATED COMPONENT NAME 8/2006.

Irrigation

Code	Component	Units	Definiton
77	Center Pivot (990 ft long or less)	ft	Center Pivot (ft)- Includes the cost of all materials and labor required to install a center pivot system including nozzles with drops, chemigation check valve, concrete pad and pivot structure.
78	Center Pivot (more than 990 ft long)	ft	Center Pivot (ft)- Includes the cost of all materials and labor required to install a center pivot system including nozzles with drops, chemigation check valve, concrete pad and pivot structure.
81	Irrigation Land Leveling	ac	Irrigation Land Leveling (ac) - Includes the cost of re-grading cropland fields that are currently surface irrigated.
87	Sprinkler Package (with drops & pressure regulator)	ft	Sprinkler package (with nozzles, drops & pressure regulators) (ft) - Includes the cost of all materials and labor to install nozzles, drops, and pressure regulators
88	Sprinkler Package (with drops)	ft	Sprinkler package (with nozzles & drops) (ft) - Includes the cost of all materials and labor to install nozzles and drops.
89	Sprinkler Package (without drops)	ft	Sprinkler package (without drops) (ft) - Includes the cost of all materials and labor to install nozzles
90	Surge valve 8in.	ea	Surge valve (ea) - Includes the cost of all materials to install one 8", 10" or 12" surge valve.
91	Surge valve 10in.	ea	Surge valve (ea) - Includes the cost of all materials to install one 8", 10" or 12" surge valve.
92	Surge valve 12in.	ea	Surge valve (ea) - Includes the cost of all materials to install one 8", 10" or 12" surge valve.
94	Underground Pipe System - 6 in	ft	Underground Irrigation Pipeline System (ft) Includes the cost of all materials and labor including pipe, risers with shut-off valves, pump stands, air vents, pressure relief valves, thrust blocks and trenching necessary to install an underground pipe system. Price is calculated at each diameter and length specified.
95	Underground Pipe System - 8 in	ft	Underground Irrigation Pipeline System (ft) Includes the cost of all materials and labor including pipe, risers with shut-off valves, pump stands, air vents, pressure relief valves, thrust blocks and trenching necessary to install an underground pipe system. Price is calculated at each diameter and length specified.
96	Underground Pipe System - 10 in	ft	Underground Irrigation Pipeline System (ft) Includes the cost of all materials and labor including pipe, risers with shut-off valves, pump stands, air vents, pressure relief valves, thrust blocks and trenching necessary to install an underground pipe system. Price is calculated at each diameter and length specified.
97	Underground Pipe System - 12 in	ft	Underground Irrigation Pipeline System (ft) Includes the cost of all materials and labor including pipe, risers with shut-off valves, pump stands, air vents, pressure relief valves, thrust blocks and trenching necessary to install an underground pipe system. Price is calculated at each diameter and length specified.
98	Underground Pipe System - 15 in	ft	Underground Irrigation Pipeline System (ft) Includes the cost of all materials and labor including pipe, risers with shut-off valves, pump stands, air vents, pressure relief valves, thrust blocks and trenching necessary to install an underground pipe system. Price is calculated at each diameter and length specified.
900	End Gun	ea	End Gun (ea) - A high volume gun-type sprinkler set on the end of a linear or center pivot. The end gun is used to extend the area of irrigation, primarily to field corners and odd areas in the field. Cost includes installation and labor.
901	Booster Pump	ea	Booster Pump (ea) - A pump installed to boost end gun pressure on low-pressure machines to improve end gun performance. Cost includes installation and labor.
918	Drip Irrigation System with Emitters	ft	Drip Irrigation System with Emitters (ft) - Includes the cost for materials and labor, including mainline tubing, lateral tubing (with or without built-in emitters), external emitters, tees, connectors, antisiphon valves, filters, pressure regulators, and any other required appurtenances necessary to install a drip (microirrigation) system. Systems may be installed above ground or underground. Costs not included are chemigation and fertigation equipment. Price is calculated on a per foot basis. NEW COMPONENT AND DEFINITION ADDED 11/08.

919	Drip Irrigation System with Drip Tape	ft	Drip Irrigation System with Drip Tape (ft) - Includes the cost for materials and labor, including mainline tubing, drip tape, tees, connectors, antisiphon valves, filters, pressure regulators and any other requires appurtenances necessary to install a drip (microirrigation) system. Systems may be installed above ground or underground. Costs not included are chemigation and fertigation equipment. Price is calculated on a per foot basis. NEW COMPONENT AND DEFINITION ADDED 11/08.
920	Multiple Inlet Irrigation Pipe 10 mil 15" Pipe	ft	Multiple Inlet Irrigation Pipe 10 mil 15" pipe (ft) - Includes the cost for all materials and labor necessary to install 15" 10 mil pipe above ground. Price is calculated on a per foot basis. NEW COMPONENT AND DEFINITION ADDED 11/08.
921	Multiple Inlet Irrigation Flap Gates 2.5" Plastic	ea	Multiple Inlet Irrigation Flap Gates 2.5" Plastic (ea) - Plastic gates installed on a multiple inlet irrigation pipe to deliver water to individual basins. Cost includes installation and labor. NEW COMPONENT AND DEFINITION ADDED 11/08.

Pipe & Appurtenances

Code	Component	Units	Definiton
103	Smooth Steel 3in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
104	Smooth Steel 4in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
105	Smooth Steel 5in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
106	Smooth Steel 6in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
107	Smooth Steel 8in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
108	Smooth Steel 10in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
109	Smooth Steel 12in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
110	Smooth Steel 14in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
111	Smooth Steel 16in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
112	Smooth Steel 18in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
113	Smooth Steel 20in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
114	Smooth Steel 22in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
115	Smooth Steel 24in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
116	Smooth Steel 26in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006

117	Smooth Steel 30in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
118	Smooth Steel 36in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
119	Smooth Steel 42in.	ft	Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges. Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
126	New Smooth Steel Pipe 12in. (3/8in. thick)	ft	New Smooth Steel Pipe (ft) - The cost of 3/8" thick new SSP. Price includes delivery, placement and welding charges. Any fittings should also be included. This item is eligible for cost share only when new material is REQUIRED by the standard/specification. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
127	New Smooth Steel Pipe 14in. (3/8in. thick)	ft	New Smooth Steel Pipe (ft) - The cost of 3/8" thick new SSP. Price includes delivery, placement and welding charges. Any fittings should also be included. This item is eligible for cost share only when new material is REQUIRED by the standard/specification. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
128	New Smooth Steel Pipe 16in. (3/8in. thick)	ft	New Smooth Steel Pipe (ft) - The cost of 3/8" thick new SSP. Price includes delivery, placement and welding charges. Any fittings should also be included. This item is eligible for cost share only when new material is REQUIRED by the standard/specification. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
129	New Smooth Steel Pipe 18in. (3/8in. thick)	ft	New Smooth Steel Pipe (ft) - The cost of 3/8" thick new SSP. Price includes delivery, placement and welding charges. Any fittings should also be included. This item is eligible for cost share only when new material is REQUIRED by the standard/specification. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
130	New Smooth Steel Pipe 20in. (3/8in. thick)	ft	New Smooth Steel Pipe (ft) - The cost of 3/8" thick new SSP. Price includes delivery, placement and welding charges. Any fittings should also be included. This item is eligible for cost share only when new material is REQUIRED by the standard/specification. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
131	New Smooth Steel Pipe 24in. (3/8in. thick)	ft	New Smooth Steel Pipe (ft) - The cost of 3/8" thick new SSP. Price includes delivery, placement and welding charges. Any fittings should also be included. This item is eligible for cost share only when new material is REQUIRED by the standard/specification. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
132	Corrugated Steel 4in.	ft	Corrugated Steel Pipe (ft) – The cost of corrugated steel pipe per foot delivered, and placed. This can be galvanized or coated. Use the price combination that most accurately reflects the product used in the county. Any fittings, connectors, and/or welding should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
133	Corrugated Steel 6in.	ft	Corrugated Steel Pipe (ft) – The cost of corrugated steel pipe per foot delivered, and placed. This can be galvanized or coated. Use the price combination that most accurately reflects the product used in the county. Any fittings, connectors, and/or welding should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
134	Corrugated Steel 8in.	ft	Corrugated Steel Pipe (ft) – The cost of corrugated steel pipe per foot delivered, and placed. This can be galvanized or coated. Use the price combination that most accurately reflects the product used in the county. Any fittings, connectors, and/or welding should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
135	Corrugated Steel 10in.	ft	Corrugated Steel Pipe (ft) – The cost of corrugated steel pipe per foot delivered, and placed. This can be galvanized or coated. Use the price combination that most accurately reflects the product used in the county. Any fittings, connectors, and/or welding should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
136	Corrugated Steel 12in.	ft	Corrugated Steel Pipe (ft) – The cost of corrugated steel pipe per foot delivered, and placed. This can be galvanized or coated. Use the price combination that most accurately reflects the product used in the county. Any fittings, connectors, and/or welding should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
137	Corrugated Steel 15in.	ft	Corrugated Steel Pipe (ft) – The cost of corrugated steel pipe per foot delivered, and placed. This can be galvanized or coated. Use the price combination that most accurately reflects the product used in the county. Any fittings, connectors, and/or welding should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
138	Corrugated Steel 18in.	ft	Corrugated Steel Pipe (ft) – The cost of corrugated steel pipe per foot delivered, and placed. This can be galvanized or coated. Use the price combination that most accurately reflects the product used in the county. Any fittings, connectors, and/or welding should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.

139	Corrugated Steel 20in.	ft	Corrugated Steel Pipe (ft) – The cost of corrugated steel pipe per foot delivered, and placed. This can be galvanized or coated. Use the price combination that most accurately reflects the product used in the county. Any fittings, connectors, and/or welding should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
140	Corrugated Steel 21in.	ft	Corrugated Steel Pipe (ft) – The cost of corrugated steel pipe per foot delivered, and placed. This can be galvanized or coated. Use the price combination that most accurately reflects the product used in the county. Any fittings, connectors, and/or welding should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
141	Corrugated Steel 24in.	ft	Corrugated Steel Pipe (ft) – The cost of corrugated steel pipe per foot delivered, and placed. This can be galvanized or coated. Use the price combination that most accurately reflects the product used in the county. Any fittings, connectors, and/or welding should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
142	Corrugated Steel 30in.	ft	Corrugated Steel Pipe (ft) – The cost of corrugated steel pipe per foot delivered, and placed. This can be galvanized or coated. Use the price combination that most accurately reflects the product used in the county. Any fittings, connectors, and/or welding should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
143	Corrugated Steel 36in.	ft	Corrugated Steel Pipe (ft) – The cost of corrugated steel pipe per foot delivered, and placed. This can be galvanized or coated. Use the price combination that most accurately reflects the product used in the county. Any fittings, connectors, and/or welding should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
151	PVC 1/2in.	ft	PVC Pipe (ft) – The cost of PVC pipe per foot delivered. All pipe must meet the minimums specified in the standards and specs. SDR and schedule is specified as a guide. Any equivalent pipe may be substituted. Price includes delivery charges, fittings, connectors, and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2010.
152	PVC 3/4in.	ft	PVC Pipe (ft) – The cost of PVC pipe per foot delivered. All pipe must meet the minimums specified in the standards and specs. SDR and schedule is specified as a guide. Any equivalent pipe may be substituted. Price includes delivery charges, fittings, connectors, and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2010.
153	PVC 1in.	ft	PVC Pipe (ft) – The cost of PVC pipe per foot delivered. All pipe must meet the minimums specified in the standards and specs. SDR and schedule is specified as a guide. Any equivalent pipe may be substituted. Price includes delivery charges, fittings, connectors, and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2010.
154	PVC 1 1/4in.	ft	PVC Pipe (ft) – The cost of PVC pipe per foot delivered. All pipe must meet the minimums specified in the standards and specs. SDR and schedule is specified as a guide. Any equivalent pipe may be substituted. Price includes delivery charges, fittings, connectors, and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2010.
155	PVC 1 1/2in.	ft	PVC Pipe (ft) – The cost of PVC pipe per foot delivered. All pipe must meet the minimums specified in the standards and specs. SDR and schedule is specified as a guide. Any equivalent pipe may be substituted. Price includes delivery charges, fittings, connectors, and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2010.
156	PVC 2in.	ft	PVC Pipe (ft) – The cost of PVC pipe per foot delivered. All pipe must meet the minimums specified in the standards and specs. SDR and schedule is specified as a guide. Any equivalent pipe may be substituted. Price includes delivery charges, fittings, connectors, and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2010.
157	PVC 3in.	ft	PVC Pipe (ft) – The cost of PVC pipe per foot delivered. All pipe must meet the minimums specified in the standards and specs. SDR and schedule is specified as a guide. Any equivalent pipe may be substituted. Price includes delivery charges, fittings, connectors, and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2010.
158	Schedule 40 PVC 4in.	ft	PVC Pipe (ft) – The cost of PVC pipe per foot delivered. All pipe must meet the minimums specified in the standards and specs. SDR and schedule is specified as a guide. Any equivalent pipe may be substituted. Price includes delivery charges, fittings, connectors, and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2010.
159	Schedule 40 PVC 5in.	ft	PVC Pipe (ft) – The cost of PVC pipe per foot delivered. All pipe must meet the minimums specified in the standards and specs. SDR and schedule is specified as a guide. Any equivalent pipe may be substituted. Price includes delivery charges, fittings, connectors, and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2010.

234	Corrugated Double Walled PE 24in.	ft	Corrugated Double Walled PE Pipe (ft) – The cost of corrugated polyethylene double wall pipe per foot. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
236	Perforated corrugated PE pipe 4in.	ft	Perforated Corrugated PE Pipe (ft) – The cost of perforated corrugated polyethylene pipe per foot. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
237	Perforated corrugated PE pipe 5in.	ft	Perforated Corrugated PE Pipe (ft) – The cost of perforated corrugated polyethylene pipe per foot. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
238	Perforated corrugated PE pipe 6in.	ft	Perforated Corrugated PE Pipe (ft) – The cost of perforated corrugated polyethylene pipe per foot. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
239	Perforated corrugated PE pipe 8in.	ft	Perforated Corrugated PE Pipe (ft) – The cost of perforated corrugated polyethylene pipe per foot. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
240	Perforated corrugated PE pipe 10in.	ft	Perforated Corrugated PE Pipe (ft) – The cost of perforated corrugated polyethylene pipe per foot. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
241	Perforated corrugated PE pipe 12in.	ft	Perforated Corrugated PE Pipe (ft) – The cost of perforated corrugated polyethylene pipe per foot. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
242	Perforated corrugated PE pipe 15in.	ft	Perforated Corrugated PE Pipe (ft) – The cost of perforated corrugated polyethylene pipe per foot. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
243	Perforated corrugated PE pipe 18in.	ft	Perforated Corrugated PE Pipe (ft) – The cost of perforated corrugated polyethylene pipe per foot. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
244	Perforated corrugated PE pipe 24in.	ft	Perforated Corrugated PE Pipe (ft) – The cost of perforated corrugated polyethylene pipe per foot. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
246	Class IV Gasketed Reinforced Concrete Culvert Pipe 12"	ft	Class IV Gasketed Reinforced Concrete Culvert (RCC) (ft) - The cost for Pipe meeting ASTM C76 and ASTM C443 or equivalent per foot of pipe length of the diameter specified. Cost includes materials (including gaskets), delivery and installation. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
247	Class IV Gasketed Reinforced Concrete Culvert Pipe 15"	ft	Class IV Gasketed Reinforced Concrete Culvert (RCC) (ft) - The cost for Pipe meeting ASTM C76 and ASTM C443 or equivalent per foot of pipe length of the diameter specified. Cost includes materials (including gaskets), delivery and installation. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
248	Class IV Gasketed Reinforced Concrete Culvert Pipe 18"	ft	Class IV Gasketed Reinforced Concrete Culvert (RCC) (ft) - The cost for Pipe meeting ASTM C76 and ASTM C443 or equivalent per foot of pipe length of the diameter specified. Cost includes materials (including gaskets), delivery and installation. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
249	Class IV Gasketed Reinforced Concrete Culvert Pipe 24"	ft	Class IV Gasketed Reinforced Concrete Culvert (RCC) (ft) - The cost for Pipe meeting ASTM C76 and ASTM C443 or equivalent per foot of pipe length of the diameter specified. Cost includes materials (including gaskets), delivery and installation. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
250	Class IV Gasketed Reinforced Concrete Culvert Pipe 30"	ft	Class IV Gasketed Reinforced Concrete Culvert (RCC) (ft) - The cost for Pipe meeting ASTM C76 and ASTM C443 or equivalent per foot of pipe length of the diameter specified. Cost includes materials (including gaskets), delivery and installation. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
251	Class IV Gasketed Reinforced Concrete Culvert Pipe 36"	ft	Class IV Gasketed Reinforced Concrete Culvert (RCC) (ft) - The cost for Pipe meeting ASTM C76 and ASTM C443 or equivalent per foot of pipe length of the diameter specified. Cost includes materials (including gaskets), delivery and installation. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
252	Animal Guard 4in.	ea	Animal Guards (ea) - The cost of all materials, shipping, and labor required to purchase and install one animal guard at the size specified. To be cost shared on separately only when not included in the cost of another component. Such as at the end of pond pipe. Not to be used with Horizontal Outlets.
253	Animal Guard 5in.	ea	Animal Guards (ea) - The cost of all materials, shipping, and labor required to purchase and install one animal guard at the size specified. To be cost shared on separately only when not included in the cost of another component. Such as at the end of pond pipe. Not to be used with Horizontal Outlets.
254	Animal Guard 6in.	ea	Animal Guards (ea) - The cost of all materials, shipping, and labor required to purchase and install one animal guard at the size specified. To be cost shared on separately only when not included in the cost of another component. Such as at the end of pond pipe. Not to be used with Horizontal Outlets.

255	Animal Guard 8in.	ea	Animal Guards (ea) - The cost of all materials, shipping, and labor required to purchase and install one animal guard at the size specified. To be cost shared on separately only when not included in the cost of another component. Such as at the end of pond pipe. Not to be used with Horizontal Outlets.
256	Animal Guard 10in.	ea	Animal Guards (ea) - The cost of all materials, shipping, and labor required to purchase and install one animal guard at the size specified. To be cost shared on separately only when not included in the cost of another component. Such as at the end of pond pipe. Not to be used with Horizontal Outlets.
257	Animal Guard 12in.	ea	Animal Guards (ea) - The cost of all materials, shipping, and labor required to purchase and install one animal guard at the size specified. To be cost shared on separately only when not included in the cost of another component. Such as at the end of pond pipe. Not to be used with Horizontal Outlets.
258	Animal Guard 15in.	ea	Animal Guards (ea) - The cost of all materials, shipping, and labor required to purchase and install one animal guard at the size specified. To be cost shared on separately only when not included in the cost of another component. Such as at the end of pond pipe. Not to be used with Horizontal Outlets.
259	Animal Guard 18in.	ea	Animal Guards (ea) - The cost of all materials, shipping, and labor required to purchase and install one animal guard at the size specified. To be cost shared on separately only when not included in the cost of another component. Such as at the end of pond pipe. Not to be used with Horizontal Outlets.
260	Animal Guard 24in.	ea	Animal Guards (ea) - The cost of all materials, shipping, and labor required to purchase and install one animal guard at the size specified. To be cost shared on separately only when not included in the cost of another component. Such as at the end of pond pipe. Not to be used with Horizontal Outlets.
261	Animal Guard 30in.	ea	Animal Guards (ea) - The cost of all materials, shipping, and labor required to purchase and install one animal guard at the size specified. To be cost shared on separately only when not included in the cost of another component. Such as at the end of pond pipe. Not to be used with Horizontal Outlets.
262	Animal Guard 36in.	ea	Animal Guards (ea) - The cost of all materials, shipping, and labor required to purchase and install one animal guard at the size specified. To be cost shared on separately only when not included in the cost of another component. Such as at the end of pond pipe. Not to be used with Horizontal Outlets.
263	Anti Seep Collar, plastic	sq ft	Anti seep collar plastic (sq ft) - The cost of all materials, shipping, and labor required to purchase and install one plastic anti seep collar.
264	Horizontal Outlet 4in.	ea	Horizontal Outlets (ea) - Is the price for ten feet of rigid pipe and all appurtenances (such as adapter and animal guard, basically from the end of the tile to the animal guard) and labor needed to attach the section to the rest of the tile system. This 10 foot section is used as a horizontal outlet in an underground outlet system. Use this component for each 10 foot section needed.
265	Horizontal Outlet 5in.	ea	Horizontal Outlets (ea) - Is the price for ten feet of rigid pipe and all appurtenances (such as adapter and animal guard, basically from the end of the tile to the animal guard) and labor needed to attach the section to the rest of the tile system. This 10 foot section is used as a horizontal outlet in an underground outlet system. Use this component for each 10 foot section needed.
266	Horizontal Outlet 6in.	ea	Horizontal Outlets (ea) - Is the price for ten feet of rigid pipe and all appurtenances (such as adapter and animal guard, basically from the end of the tile to the animal guard) and labor needed to attach the section to the rest of the tile system. This 10 foot section is used as a horizontal outlet in an underground outlet system. Use this component for each 10 foot section needed.
267	Horizontal Outlet 8in.	ea	Horizontal Outlets (ea) - Is the price for ten feet of rigid pipe and all appurtenances (such as adapter and animal guard, basically from the end of the tile to the animal guard) and labor needed to attach the section to the rest of the tile system. This 10 foot section is used as a horizontal outlet in an underground outlet system. Use this component for each 10 foot section needed.
268	Horizontal Outlet 10in.	ea	Horizontal Outlets (ea) - Is the price for ten feet of rigid pipe and all appurtenances (such as adapter and animal guard, basically from the end of the tile to the animal guard) and labor needed to attach the section to the rest of the tile system. This 10 foot section is used as a horizontal outlet in an underground outlet system. Use this component for each 10 foot section needed.
269	Horizontal Outlet 12in.	ea	Horizontal Outlets (ea) - Is the price for ten feet of rigid pipe and all appurtenances (such as adapter and animal guard, basically from the end of the tile to the animal guard) and labor needed to attach the section to the rest of the tile system. This 10 foot section is used as a horizontal outlet in an underground outlet system. Use this component for each 10 foot section needed.
270	Horizontal Outlet 15in.	ea	Horizontal Outlets (ea) - Is the price for ten feet of rigid pipe and all appurtenances (such as adapter and animal guard, basically from the end of the tile to the animal guard) and labor needed to attach the section to the rest of the tile system. This 10 foot section is used as a horizontal outlet in an underground outlet system. Use this component for each 10 foot section needed.

271	Horizontal Outlet 18in.	ea	Horizontal Outlets (ea) - Is the price for ten feet of rigid pipe and all appurtenances (such as adapter and animal guard, basically from the end of the tile to the animal guard) and labor needed to attach the section to the rest of the tile system. This 10 foot section is used as a horizontal outlet in an underground outlet system. Use this component for each 10 foot section needed.
272	Horizontal Outlet 24in.	ea	Horizontal Outlets (ea) - Is the price for ten feet of rigid pipe and all appurtenances (such as adapter and animal guard, basically from the end of the tile to the animal guard) and labor needed to attach the section to the rest of the tile system. This 10 foot section is used as a horizontal outlet in an underground outlet system. Use this component for each 10 foot section needed.
273	Mechanical Coupler 6in.	ea	Mechanical Coupler (ea) - The cost of labor, delivery and a water tight coupling for smooth steel pipe used in lieu of welding. Minimum length = 7" middle ring 1/4" steel.
274	Mechanical Coupler 8in.	ea	Mechanical Coupler (ea) - The cost of labor, delivery and a water tight coupling for smooth steel pipe used in lieu of welding. Minimum length = 7" middle ring 1/4" steel.
275	Mechanical Coupler 10in.	ea	Mechanical Coupler (ea) - The cost of labor, delivery and a water tight coupling for smooth steel pipe used in lieu of welding. Minimum length = 7" middle ring 1/4" steel.
276	Mechanical Coupler 12in.	ea	Mechanical Coupler (ea) - The cost of labor, delivery and a water tight coupling for smooth steel pipe used in lieu of welding. Minimum length = 7" middle ring 1/4" steel.
278	Plate Steel 3/16in. thick	sq ft	Plate Steel (sq ft) - Is the cost of one square foot of steel at the corresponding thickness delivered, placed and welded. Use for steel anti-seep collars, anti-vortex devices and base plates.
279	Plate Steel 1/4in. thick	sq ft	Plate Steel (sq ft) - Is the cost of one square foot of steel at the corresponding thickness delivered, placed and welded. Use for steel anti-seep collars, anti-vortex devices and base plates.
280	Plate Steel 3/8in. thick	sq ft	Plate Steel (sq ft) - Is the cost of one square foot of steel at the corresponding thickness delivered, placed and welded. Use for steel anti-seep collars, anti-vortex devices and base plates.
281	Relief Well 5in.	ea	Relief well (ea) - The cost of the pipe, appurtenances, and labor need to create a vertical outlet for an underground outlet system. Include every thing from the tile up (tee, reducer, pipe, trash guard etc).
282	Relief Well 6in.	ea	Relief well (ea) - The cost of the pipe, appurtenances, and labor need to create a vertical outlet for an underground outlet system. Include every thing from the tile up (tee, reducer, pipe, trash guard etc).
283	Relief Well 8in.	ea	Relief well (ea) - The cost of the pipe, appurtenances, and labor need to create a vertical outlet for an underground outlet system. Include every thing from the tile up (tee, reducer, pipe, trash guard etc).
284	Relief Well 10in.	ea	Relief well (ea) - The cost of the pipe, appurtenances, and labor need to create a vertical outlet for an underground outlet system. Include every thing from the tile up (tee, reducer, pipe, trash guard etc).
285	Relief Well 12in.	ea	Relief well (ea) - The cost of the pipe, appurtenances, and labor need to create a vertical outlet for an underground outlet system. Include every thing from the tile up (tee, reducer, pipe, trash guard etc).
286	Relief Well 15in.	ea	Relief well (ea) - The cost of the pipe, appurtenances, and labor need to create a vertical outlet for an underground outlet system. Include every thing from the tile up (tee, reducer, pipe, trash guard etc).
287	Relief Well 18in.	ea	Relief well (ea) - The cost of the pipe, appurtenances, and labor need to create a vertical outlet for an underground outlet system. Include every thing from the tile up (tee, reducer, pipe, trash guard etc).
288	Relief Well 24in.	ea	Relief well (ea) - The cost of the pipe, appurtenances, and labor need to create a vertical outlet for an underground outlet system. Include every thing from the tile up (tee, reducer, pipe, trash guard etc).
289	Relief Well 30in.	ea	Relief well (ea) - The cost of the pipe, appurtenances, and labor need to create a vertical outlet for an underground outlet system. Include every thing from the tile up (tee, reducer, pipe, trash guard etc).
290	Relief Well 36in.	ea	Relief well (ea) - The cost of the pipe, appurtenances, and labor need to create a vertical outlet for an underground outlet system. Include every thing from the tile up (tee, reducer, pipe, trash guard etc).
291	riser 5in.	ea	Riser (ea) – Includes the cost of a riser (fabricated or prefabricated) that meets standards and specifications and labor. Include every thing from the tile up (tee, reducer, riser/pipe, trash guard etc)
292	riser 6in.	ea	Riser (ea) – Includes the cost of a riser (fabricated or prefabricated) that meets standards and specifications and labor. Include every thing from the tile up (tee, reducer, riser/pipe, trash guard etc)
293	riser 8in.	ea	Riser (ea) – Includes the cost of a riser (fabricated or prefabricated) that meets standards and specifications and labor. Include every thing from the tile up (tee, reducer, riser/pipe, trash guard etc)
294	riser 10in.	ea	Riser (ea) – Includes the cost of a riser (fabricated or prefabricated) that meets standards and specifications and labor. Include every thing from the tile up (tee, reducer, riser/pipe, trash guard etc)
295	riser 12in.	ea	Riser (ea) – Includes the cost of a riser (fabricated or prefabricated) that meets standards and specifications and labor. Include every thing from the tile up (tee, reducer, riser/pipe, trash guard etc)
296	riser 15in.	ea	Riser (ea) – Includes the cost of a riser (fabricated or prefabricated) that meets standards and specifications and labor. Include every thing from the tile up (tee, reducer, riser/pipe, trash guard etc)
297	riser 18in.	ea	Riser (ea) – Includes the cost of a riser (fabricated or prefabricated) that meets standards and specifications and labor. Include every thing from the tile up (tee, reducer, riser/pipe, trash guard etc)

298	riser 24in.	ea	Riser (ea) – Includes the cost of a riser (fabricated or prefabricated) that meets standards and specifications and labor. Include every thing from the tile up (tee, reducer, riser/pipe, trash guard etc)
299	riser 30in.	ea	Riser (ea) – Includes the cost of a riser (fabricated or prefabricated) that meets standards and specifications and labor. Include every thing from the tile up (tee, reducer, riser/pipe, trash guard etc)
300	riser 36in.	ea	Riser (ea) – Includes the cost of a riser (fabricated or prefabricated) that meets standards and specifications and labor. Include every thing from the tile up (tee, reducer, riser/pipe, trash guard etc)
301	Side Inlet Drainage Structure elbow, 12in.	ea	Side Inlet Drainage Structure elbow (ea) Includes the cost of cutting, welding and labor for the fabrication of a side inlet drop structure 45 degree elbow, and the attachment of the elbow to the pipe.
302	Side Inlet Drainage Structure elbow, 14in.	ea	Side Inlet Drainage Structure elbow (ea) Includes the cost of cutting, welding and labor for the fabrication of a side inlet drop structure 45 degree elbow, and the attachment of the elbow to the pipe.
303	Side Inlet Drainage Structure elbow, 16in.	ea	Side Inlet Drainage Structure elbow (ea) Includes the cost of cutting, welding and labor for the fabrication of a side inlet drop structure 45 degree elbow, and the attachment of the elbow to the pipe.
304	Side Inlet Drainage Structure elbow, 18in.	ea	Side Inlet Drainage Structure elbow (ea) Includes the cost of cutting, welding and labor for the fabrication of a side inlet drop structure 45 degree elbow, and the attachment of the elbow to the pipe.
305	Side Inlet Drainage Structure elbow, 20in.	ea	Side Inlet Drainage Structure elbow (ea) Includes the cost of cutting, welding and labor for the fabrication of a side inlet drop structure 45 degree elbow, and the attachment of the elbow to the pipe.
306	Side Inlet Drainage Structure elbow, 22in.	ea	Side Inlet Drainage Structure elbow (ea) Includes the cost of cutting, welding and labor for the fabrication of a side inlet drop structure 45 degree elbow, and the attachment of the elbow to the pipe.
307	Side Inlet Drainage Structure elbow, 24in.	ea	Side Inlet Drainage Structure elbow (ea) Includes the cost of cutting, welding and labor for the fabrication of a side inlet drop structure 45 degree elbow, and the attachment of the elbow to the pipe.
308	Side Inlet Drainage Structure elbow, 26in.	ea	Side Inlet Drainage Structure elbow (ea) Includes the cost of cutting, welding and labor for the fabrication of a side inlet drop structure 45 degree elbow, and the attachment of the elbow to the pipe.
313	Trash Guard (Fabricated small)	ft	Trash Guard Fabricated small (ft) - Includes the cost of a trash guard needed for safety reasons on principle spillway pipe or drop structures also include labor cost. Usually fabricated from steel posts and cattle panels. Unit is feet of length of cattle panel. Small is for pipes up to 15" in diameter. Not to be used with UGO's.
314	Trash Guard (Fabricated large)	ft	Trash Guard Fabricated large (ft) - Includes the cost of a trash guard needed for safety reasons on principle spillway pipe or drop structures also include labor cost. Usually fabricated from wooden posts and cattle panels. Unit is feet of length of cattle panel. Large is for pipes 16"-24" in diameter. Not to be used with UGO's.
315	Trash Guard (Conical)	diam in	Trash Guard (Conical) (diam in) - The cost of a conical trash guard used on principle spillway pipes and labor to install. Unit is diameter inch of each guard.
831	Drainage Water Level Control Structure, 6in.	ea	Drainage Water level Control Structure (ea) - The cost of all materials, shipping, equipment and labor to install one structure as a component of the Drainage Water Management Conservation Practice. Dimensions are by drainage tile diameter connection to the structure and are independent of structure height. NEW COMPONENT ADDED 12/06.
832	Drainage Water Level Control Structure, 8in.	ea	Drainage Water level Control Structure (ea) - The cost of all materials, shipping, equipment and labor to install one structure as a component of the Drainage Water Management Conservation Practice. Dimensions are by drainage tile diameter connection to the structure and are independent of structure height. NEW COMPONENT ADDED 12/06.
833	Drainage Water Level Control Structure, 10in.	ea	Drainage Water level Control Structure (ea) - The cost of all materials, shipping, equipment and labor to install one structure as a component of the Drainage Water Management Conservation Practice. Dimensions are by drainage tile diameter connection to the structure and are independent of structure height. NEW COMPONENT ADDED 12/06.

Removal/Suppression of Unwanted Species

Code	Component	Units	Definiton
317	Clearing Light	ac	Clearing Light (ac) - Includes the cost of all machinery and labor required to clear trees and shrubs from one acre where a conservation practice will built. Light when a single activity such as plowing, disking, light woody removal, or mowing is used.
318	Clearing Medium	ac	Clearing Medium (ac) - Includes the cost of all machinery and labor required to clear trees and shrubs from one acre where a conservation practice will built. Medium when multiple activities such as plowing, disking, moderate woody removal, or mowing are used.
319	Clearing Heavy	ac	Clearing Heavy (ac) - Includes the cost of all machinery and labor required to clear trees and shrubs from one acre where a conservation practice will built. Heavy when multiple activities that include the use of heavy equipment and extensive woody removal are used.
320	Cultipacking, Rolling, or Harrowing	ac	Cultipacking, Rolling, or Harrowing (ac) - The cost of one pass with a cultipacker, roller, harrow or similar purpose equipment, to prepare site for seeding or to firm in seed that has been broadcast on the surface. This price should be per trip.

321	Site Prep Cropland Light - Chemical	ac	Site Prep Cropland Light-Chemical (ac) - Includes the cost of a single chemical activity and single application to reduce vegetative competition on cropland to prepare for seeding or tree planting. The costs associated with this include labor, equipment and the chemical.
322	Site Prep Cropland Light - Mechanical	ac	Site Prep Cropland Light-Mechanical (ac) - Includes the cost of a single mechanical activity such as mowing, or disking a field one time to reduce vegetative competition on cropland to prepare for seeding or tree planting. The costs associated with this include labor and equipment.
323	Site Prep Cropland Medium - Chemical	ac	Site Prep Cropland Medium-Chemical (ac) - Includes the cost of a multiple chemical activities to reduce vegetative competition on cropland to prepare for seeding or tree planting. The costs associated with this include labor, equipment and the chemical.
324	Site Prep Cropland Medium - Mechanical	ac	Site Prep Cropland Medium-Mechanical (ac) - Includes the cost of a multiple mechanical activity, or multiple passes, such as plowing, mowing, or disking to reduce vegetative competition on cropland to prepare for seeding or tree planting. The costs associated with this include labor and equipment.
325	Site Prep Non-Cropland Light - Chemical	ac	Site Prep Non-cropland Light-Chemical (ac) - Includes the cost of a single chemical activity to reduce vegetative competition on non-cropland to prepare for seeding or tree planting. The costs associated with this include labor and equipment. The cost on non-cropland is higher due to heavier rate of application.
326	Site Prep Non-Cropland Light - Mechanical	ac	Site Prep Non-cropland Light-Mechanical (ac) - Includes the cost of a single activity such as disking, or light woody removal to reduce vegetative competition on non-cropland to prepare for seeding or tree planting. The costs associated with this include labor and equipment. The cost on non-cropland is higher due to heavier rate of application.
327	Site Prep Non-Cropland Medium - Chemical	ac	Site Prep Non-cropland Medium-Chemical (ac) - Includes the cost of multiple chemical activities to reduce vegetative competition on non-cropland to prepare for seeding or tree planting. The costs associated with this include labor, equipment, and the chemical. The cost on non-cropland is higher due to heavier rate of application.
328	Site Prep Non-Cropland Medium - Mechanical	ac	Site Prep Non-cropland Medium - Mechanical(ac) - Includes the cost of multiple activities, or multiple passes, such as plowing, disking, or moderate woody removal to reduce vegetative competition on non-cropland to prepare for seeding or tree planting. The costs associated with this include labor and equipment. The cost on non-cropland is higher due to heavier rate of application.
329	Site Prep Non-Cropland Heavy	ac	Site Prep Non-cropland Heavy (ac) - Includes the cost of multiple activities that include the use of heavy equipment and extensive woody removal to reduce vegetative competition on non-cropland to prepare for seeding or tree planting. The costs associated with this include labor and equipment.
330	Site Prep Ripping / Sub-Soiling	ac	Site Prep Ripping/Sub-Soiling (ac) - Includes the cost for machinery and labor required to break up restrictive layers in soils with deep ripping.
331	Weed Barrier - Mat	ea	Weed barrier -Mat (ea) - The cost for a 3X3 mat, staples and labor to install.
332	Weed Barrier - Roll	ft	Weed Barrier - Roll (ft) - The cost of a weed barrier no more than 3oz weight, staples and labor to install. Used to control weed competition and retard moisture loss around trees or shrubs. A weed barrier comes on a roll and this component is 3 feet wide.
333	Weed Control for Shrubs	shrub	Weed control for Shrubs (shrub) - Includes the cost of using chemicals, machines or mulch to control weeds around shrubs after shrub planting.
334	Weed Control for Trees	tree	Weed control for Trees (tree) - Includes the cost of using chemicals, machines or mulch to control weeds around trees after tree planting.
335	Woody Cover Control Prairie or Old Field - Light	ac	Woody cover control Prairie or Old Field-Light (ac) – Includes the cost of all machinery, chemicals and labor required to remove the tree canopy to promote herbaceous growth or early woody succession in old fields or prairies. Control is light when the removal of woody BA is LESS than 30 BA or LESS than 200 stems per acres of the area to be treated. COMPONENT AND DEFINITION UPDATED JUNE 2010.
336	Woody Cover Control Prairie or Old Field – Heavy	ac	Woody cover control Prairie or Old Field-Heavy (ac) – Includes the cost of all machinery, chemicals and labor required to remove the tree canopy to promote herbaceous growth or early woody succession in old fields or prairies. Control is heavy when the removal of woody BA is GREATER than 30 BA or GREATER than 200 stems per acres of the area to be treated. COMPONENT AND DEFINITION UPDATED JUNE 2010
337	Edgefeathering for Wildlife	ac	Edgefeathering for Wildlife (ac) – Includes the cost of all machinery and labor required to create/restore early successional shrubby cover for wildlife using cutting and clipping at the edge of a woodland. NEW COMPONENT AND DEFINITION ADDED JUNE 2010.
338	Woody Cover Control –Loess Hill Prairies	ac	Woody cover control –Loess Hill Prairies (ac) – Includes the cost of all machinery and labor required to remove woody cover for Loess Hill Prairies.
965	Wildlife Woody Cover Control Light	ac	Wildlife Woody Cover Control Light (ac) - The cost of all materials, equipment and labor needed to remove the tree canopy to promote herbaceous growth or early woody succession for wildlife habitat. Light refers to reducing the basal area by 20 to 30 square feet per acre, or 100-199 stems per acre in woodlands, savannas and glades or development of temporary forest opening. NEW COMPONENT AND DEFINITION ADDED JUNE 2010.

966	Wildlife Woody Cover Control Medium	acre	Wildlife Woody Cover Control Medium (ac) - The cost of all materials, equipment and labor needed to remove the tree canopy to promote herbaceous growth or early woody succession for wildlife habitat. Medium refers to reducing the basal area by 31 to 40 square feet per acre, or 200-400 stems per acre in woodlands, savannas and glades or development of temporary forest opening. NEW COMPONENT AND DEFINITION ADDED JUNE 2010.
967	Wildlife Woody Cover Control Heavy	acre	Wildlife Woody Cover Control Heavy (ac) - The cost of all materials, equipment and labor needed to remove the tree canopy to promote herbaceous growth or early woody succession for wildlife habitat. Heavy refers to reducing the basal area by 41 to 60 square feet per acre, or greater than 400 stems per acre in woodlands, savannas and glades or development of temporary forest opening. NEW COMPONENT AND DEFINITION ADDED JUNE 2010.
968	Wildlife Woody Cover Control Very Heavy	ac	Wildlife Woody Cover Control Very Heavy (ac) - The cost of all materials, equipment and labor needed to remove the tree canopy to promote herbaceous growth or early woody succession for wildlife habitat. Very heavy refers to reducing the basal area by greater than 60 square feet per acre in woodlands, savannas and glades or development of temporary forest opening. NEW COMPONENT AND DEFINITION ADDED JUNE 2010.
969	Permanent Forest Openings	ac	Permanent Forest Openings (ac) - The cost of all materials, equipment and labor needed to remove all trees and stumps resulting in basal area of 0 to create a 1/4 to 3 acre clearing within a stand of timber. NEW COMPONENT AND DEFINITION ADDED JUNE 2010.
806	Mowing During Establishment Period	ac	Mowing During Establishment Period (ac) - To control weed growth during the establishment phase of a planned seeding. NEW COMPONENT AND DEFINITION ADDED 8/2006
935	Herbaceous Species Control/Suppression (EQIP/WHIP)	ac	Herbaceous Species Control/Suppression (EQIP/WHIP) (ac) - The control/suppression of herbaceous vegetation such as fescue and sericia lespedeza. Cost per treatment of appropriate chemical and rate of application to meet desired response. Example applications include kill herbaceous vegetation in edgfeathering, create open ground (as a substitute for burning or disking), or control sericia lespedeza. This component is NOT for site preparation activities prior to seedings. NEW COMPONENT AND DEFINITION ADDED 1/2009.
936	Brush Management Low (314)	ac	Brush Management Low (314) (ac) - The cost of materials and labor to remove, reduce or manipulate non-herbaceous plants on pasture and hayland where a single chemical application or chemical application and pass with brush hog are sufficient. NEW COMPONENT AND DEFINITION ADDED 1/2009.
937	Brush Management High (314)	ac	Brush Management High (314) (ac) - The cost of materials, equipment and labor to remove, reduce or manipulate non-herbaceous plants on pasture and hayland where non desirable plants may be dense and/or woody and require more efforts to remove such as multiple chemical treatments and/or additional mechanical means such as tree shearing are required in addition to brush hogging. NEW COMPONENT AND DEFINITION ADDED 1/2009.
938	Brush Management Biological Light(314)	ac	Brush Management Biological Light(314) (ac) - All costs associated with biological brush management techniques such as stocking goats such as transportation of livestock, setting up temporary fence and watering system. For areas where there are moderate brush problems where a stocking rate equivalent of 100 goats can adequately clear 1 acre of brush in one day (or equivalent stocking: for example 15 goats for 1 week to clear an acre of brush, or equivalent number of other livestock. NEW COMPONENT AND DEFINITION ADDED JUNE 2010.
970	Brush Management Biological Heavy (314)	ac	Brush Management Biological Heavy (314) (ac) - All costs associated with biological brush management techniques such as stocking goats such as transportation of livestock, setting up temporary fence and watering system. For areas where there are heavy/impenetratable brush problems where a stocking rate equivalent of 200 goats can adequately clear 1 acre of brush in one day (or equivalent stocking: for example 30 goats for 1 week to clear an acre of brush, or equivalent number of other livestock. NEW COMPONENT AND DEFINITION ADDED JUNE 2010.
943	Forest Slash Management Light	ac	Forest Slash Management Light (ac) - The cost of equipment and labor to lop and scatter limbs, branches, treetops, small diameter trees, or other woody plant residue in lengths so that the remaining slash will lie close to the ground. Suitable for areas with lower slash accumulations. NEW COMPONENT AND DEFINITION ADDED 1/2009.
944	Forest Slash Management Medium	ac	Forest Slash Management Medium (ac) - The cost of equipment and labor to crush slash with equipment that crushes/grinds slash or heavy lopping and scattering with possible light chipping. NEW COMPONENT AND DEFINITION ADDED 1/2009.
945	Forest Slash Management Heavy	ac	Forest Slash Management Heavy (ac) - The cost of equipment and labor to remove slash by lifting, pushing or taking it away from a treated area in order to utilize the material, or dispose of it safely, or chipping slash into chips and chunks of varying sizes to distribute on site or remove offsite. Suitable for areas with high slash accumulations. NEW COMPONENT AND DEFINITION ADDED 1/2009.

Seed & Seeding

Code	Component	Units	Definiton
340	Birdsfoot Trefoil	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.

341	Alsike Clover	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
342	Ladino Clover	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
343	Red Clover	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
344	Alfalfa	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
345	Common Lespedeza	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
346	Common Lespedeza (improved)	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
348	Sweetclover	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
349	Canada or Virginia Wildrye	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
350	Kentucky Bluegrass	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
351	Orchardgrass	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
352	Redtop	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
353	Reed Canarygrass	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
354	Smooth Brome	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
355	Tall Fescue (toxic fungus)	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
356	Tall Fescue (non-toxic fungus)	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
357	Tall Fescue (fungus free)	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
358	Timothy	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
360	Bermudagrass	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
361	Bermudagrass sprigs	bu	Bermudagrass Sprigs (bu) - The cost of one bushel of bermudagrass sprigs.
362	Big Bluestem	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
363	Old World Bluestem	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
364	Eastern Gamagrass	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
365	Indiangrass	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
366	Little Bluestem	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
367	Prairie Cordgrass (Spartina pectinata) seed	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
368	Prairie Cordgrass (Spartina pectinata) containers	ea	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
369	Prairie Cordgrass (Spartina pectinata) rhizomes	ea	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
370	Prairie Dropseed	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
371	Sideoats Grama	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.

372	Switchgrass	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
373	Oats	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
374	Wheat	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
375	Cereal Rye	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law.
978	Annual Ryegrass	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
979	Barley	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
980	Triticale	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
981	Corn	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
982	Grain Sorghum	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
983	Sorghum-Sudangrass	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
984	Pearl Millet	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
985	Proso Millet	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
986	Safflower	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
987	Turnip	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
988	Oilseed Radish	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
989	Buckwheat	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
990	Cowpeas	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
991	Crimson Clover	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
992	Soybean	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
993	Sunnhemp	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
994	Hairy Vetch	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
995	Subterranean Clover	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
996	Wooly pod Vetch	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
997	Field Pea	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
998	Southern Crabgrass	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
999	Kura Clover	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
1000	Perennial Ryegrass	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
1001	Composite dropseed	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.

1002	Illinois Bundleflower	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
1003	Partridge Pea	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
1004	Purple Prairieclover	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
1005	Roundhead Bushclover	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
1006	Showy Ticktrefoil	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
1007	Grayhead Coneflower	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
1008	Pale Purple Coneflower	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
1009	Ox-eye false Sunflower	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
1010	Wild Bergamot	lb	Seed (lb) - Includes the cost of one pound of pure live seed only, based on a current seed analysis in compliance with the Missouri Seed Law. NEW COMPONENT ADDED JUNE 2011.
1011	Giant Miscanthus Rhizomes	ac	Giant Miscanthus Rhizomes (ac) - The cost of rhizomes not to exceed 6,000 rhizomes per acre. NEW COMPONENT AND DEFINITION ADDED JUNE 2011.
1012	Giant Miscanthus Establishment	ac	Giant Miscanthus Establishment (ac) - Costs to establish Giant Miscanthus. Cost includes site preparation, planting, field rolling and related cultivation measures, weed control, and temporary cover needed to fix nitrogen. Cost includes all labor related to these establishment activities. NEW COMPONENT AND DEFINITION ADDED JUNE 2011.
379	Companion Crop - Seed	lb	Companion Crop - Seed (lb) - The cost of companion crop bulk seed.
380	Companion Crop (2) - Seed	ac	Companion Crop (2) - Seed (ac) - The cost of the seed required to plant on acre of companion crop.
381	Temporary cover - Seed	ac	Temporary cover - Seed (ac) - The cost of the seed required to plant on acre of temporary cover.
382	CSG Critical Area Planting - Seed	ac	CSG Critical Area Planting - Seed (ac) - The cost of the PLS required to plant one acre of Cool season grass using the average rates listed in the Critical Area Standard.
383	CSG/Legume mix Critical Area Planting - Seed	ac	CSG/Legume mix Critical Area Planting - Seed (ac) - The cost of the PLS required to plant one acre of Cool season grass mixed with legumes using the average rates listed in the Critical Area Standard.
384	WSG Critical Area Planting - Seed	ac	WSG Critical Area Planting - Seed (ac) - The cost of the PLS required to plant one acre of Warm season grass using the average rates listed in the Critical Area Standard.
385	WSG/Legume mix Critical Area Planting - Seed	ac	WSG/Legume mix Critical Area Planting - Seed (ac) - The cost of the PLS required to plant one acre of Warm season grass mixed with legumes using the average rates listed in the Critical Area Standard.
386	CSG Pasture - Seed	ac	CSG Pasture - Seed (ac) - The cost of the PLS required to plant one acre of Cool season grass using the average rates listed in the Pasture and Hayland Planting Standard.
387	CSG/Legume mix Pasture - Seed	ac	CSG/Legume mix Pasture - Seed (ac) - The cost of the PLS required to plant one acre of Cool season grass mixed with legumes using the average rates listed in the Pasture and Hayland Planting Standard.
388	Interseeding Legumes Pasture - Seed	ac	Interseeding Legumes Pasture - Seed (ac) - The cost of the PLS required to overseed or interseed one acre of Legumes into an existing stand using the average rates listed in the Pasture and Hayland Planting Standard.
389	WSG Pasture - Seed	ac	WSG Pasture - Seed (ac) - The cost of the PLS required to plant one acre of Warm season grass using the average rates listed in the Pasture and Hayland Planting Standard.
390	WSG/Legume mix Pasture - Seed	ac	WSG/Legume mix Pasture - Seed (ac) - The cost of the PLS required to plant one acre of Warm season grass mixed with legumes using the average rates listed in the Pasture and Hayland Planting Standard.
391	CSG Conservation Cover - Seed	ac	CSG Conservation Cover - Seed (ac) - The cost of the PLS required to plant one acre of Cool season grass using the average rates listed in the Conservation Cover Standard.
392	CSG/Legume mix Conservation Cover - Seed	ac	CSG/Legume mix Conservation Cover - Seed (ac) - The cost of the PLS required to plant one acre of Cool season grass mixed with legumes using the average rates listed in the Conservation Cover Standard.
393	Interseeding Legumes Conservation Cover - Seed	ac	Interseeding Legumes Conservation Cover - Seed (ac) - The cost of the PLS required to overseed or interseed one acre of Legumes into an existing stand using the average rates listed in the Conservation Cover Standard.
394	WSG Conservation Cover - Seed	ac	WSG Conservation Cover - Seed (ac) - The cost of the PLS required to plant one acre of Warm season grass using the average rates listed in the Conservation Cover Standard.
395	WSG/Legume mix Conservation Cover - Seed	ac	WSG/Legume mix Conservation Cover - Seed (ac) - The cost of the PLS required to plant one acre of Warm season grass mixed with legumes using the average rates listed in the Conservation Cover Standard.
972	CP33 Mixture 1 (INCLUDES FORBS)	ac	CP33 Mixture 1 (ac) - The cost per acre PLS of seed to meet the CP 33 Mixture 1 requirement consisting of little bluestem, sideoats grama, and forbs. This mix is also utilized for CP38E practice. NEW COMPONENT AND DEFINITION ADDED 6/18/2010.

973	CP33 Mixture 2 (INCLUDES FORBS)	ac	CP33 Mixture 2 (ac) - The cost per acre PLS of seed to meet the CP 33 Mixture 2 requirement consisting of little bluestem, sideoats grama, alfalfa and forbs. NEW COMPONENT AND DEFINITION ADDED 6/18/2010.
974	CP33 Mixture 3 (INCLUDES FORBS)	ac	CP33 Mixture 3 (ac) - The cost per acre PLS of seed to meet the CP 33 Mixture 3 requirement consisting of switchgrass and forbs. NEW COMPONENT AND DEFINITION ADDED 6/18/2010.
396	WSG - Restoration of Declining Habitats - Seed (643)	lb	WSG – Restoration of Declining Habitats - Seed (643) – local genotype/Mo Native/Ecotype Zone. The cost of 1# PLS of warm season grass mix using species listed in the 643 Standard. Local genotype seed is obtained from plants grown within a 150 mile radius from the field in which it will be planted. MO Native seed originated and existed in Missouri prior to settlement, it was not introduced. Ecotype Zone seed originates from the same Ecotype Zone.
398	FORBS – MO Ecotype 9 species mix	lb	FORBS – MO Ecotype 9 species mix (lb) - The cost per pound PLS of MO Ecotype forbs 9 species mix. This is a 9 species mix as specified in Table 1 of 645 Conservation Practice Standard. NEW COMPONENT AND DEFINITION ADDED JUNE 2010. COMPONENT AND DEFINITION UPDATED JUNE 2011.
971	FORBS - non-ecotype 9 species mix	lb	FORBS - non-Ecotype Source 9 species mix(lb) - The cost per pound of PLS of forbs for seedlings where MO Ecotype Forbs are not required. This is a 9 species mix as specified in Table 1 of 645 Conservation Practice Standard. NEW COMPONENT AND DEFINITION ADDED JUNE 2010. COMPONENT AND DEFINITION UPDATED JUNE 2011.
399	Food Plot - Green Browse	ac	Food Plot - Green Browse (ac) - Includes all materials (lime, fertilizer, seed) labor and machinery (spreading, seedbed prep and seeding) for the average seeding mix (645 FOTG) used in the county for green browse food plots.
401	Lime (ENM)	100 lb	Lime (100 lbs) - The cost of lime for correction of pH for vegetative establishment. This will include the cost of lime per one hundred pounds of Effective Neutralizing Material (ENM), delivered and placed. To figure the cost share find the amount of ENM divide by 100. Multiply the result times the average cost. For instance if 400 lbs ENM were required and the average cost is \$0.5125/100lbs ENM, do the following calculations: $400/100 = 4.0 * \$0.5125 = \$2.09/100lb$. DEFINITION UPDATED 8/2006
402	Nitrogen (N)	lb	Nitrogen (N) (lb) - The cost of nitrogen (N) for vegetation establishment, during the establishment year only.
403	Phosphate (P2O5)	lb	Phosphate (P2O5) (lb) - The cost of phosphate (P2O5) for vegetation establishment, during the establishment year only.
404	Potash (K2O)	lb	Potash (K2O) (lb) - The cost of potash (K2O) for vegetation establishment, during the establishment year only.
405	Blanket Fertilizer & Lime (Cool Season Grass)	ac	Blanket Fertilizer and Lime (for Critical Area Cool Season Recommendation) (ac) - Includes the cost of a standard fertilizer and lime recommendation for cool season grasses (60-90-90) when no soil test is required. Cost includes lime and fertilizer delivered and applied.
406	Blanket Fertilizer & Lime (Warm Season Grass)	ac	Blanket Fertilizer and Lime (for Critical Area Warm Season Recommendation) (ac) - Includes the cost of a standard fertilizer and lime recommendation warm season grasses (30-90-90) when no soil test is required. Cost includes lime and fertilizer delivered and applied.
407	Spreading (greater than 5 acres)	ac	Spreading (ac) - Includes the cost of all machinery and labor required to spread fertilizer, and/or seed. Cost should be calculated per trip over entire acre, not per item. Use this item for seeding when using the broadcasting method.
408	Spreading Small Areas (5 acres or less)	ac	Spreading small areas (ac) - Includes the cost of all machinery and labor required to spread fertilizer, and/or seed in small areas. Cost should be calculated per trip over entire acre, not per item. Use this item for seeding when using the broadcasting method. Cost should account for more labor than the above item due to safety concerns and more turn arounds. Small areas are 5 acres or less.
409	Seeding - Conventional or No-till Drill or Planter	ac	Seeding - Conventional or No-till -Drill or Planter (ac) - The cost of using equipment to seed grasses or grains. Includes the cost of labor, fuel and conventional equipment.
410	Air Seeding	ac	Air Seeding (ac) - Includes the cost of all machinery and labor required when using an air flow fertilizer spreader. An air flow fertilizer spreader is commonly a four wheeled machine that uses air pressure to blow seed and fertilizer on the ground. Better contact is made with this seeding method than with the broadcasting method.
411	Vendor Seeding - Small Areas	ea	Vendor Seeding - Small Areas (ea) Is the average cost for a vendor seeded small area. This item may be used when vendors charge a minimum fee for seeding, or renting equipment for seeding, small areas such as pond dams, waterways, critical area treatment or other similar situations. Small area size is set by the vendor. Actual cost must be incurred to use this component.
412	Planting prairie cordgrass - container	ac	Planting prairie cordgrass - container (ac) - The cost of planting 55 1 gallon prairie cordgrass containers (each gallon should be quartered equaling 220 plants) per acre using an auger or similar device.
413	Planting prairie cordgrass - rhizomes	ac	Planting prairie cordgrass - rhizomes (ac) - The cost of planting 110 prairie cordgrass rhizomes using a tree planter.
414	Sprigging	ac	Sprigging (ac) - The cost of planting sprigs such as bermudagrass. DEFINITION UPDATED 8/2006.
415	Mulch Anchor (netting)	sq yd	Mulch Anchor (netting) (sq yd) - Includes the cost of mulch anchor netting (484 Mulching), and the labor and equipment costs associated with placing and fixing the material to the site.
416	Mulch Manufactured	sq ft	Mulch (ac or sq ft) - Includes the cost of all materials and labor needed to adequately mulch one acre using either manufactured or natural mulch, according to standard 484 Mulching.
417	Mulch Natural	ac	Mulch (ac or sq ft) - Includes the cost of all materials and labor needed to adequately mulch one acre using either manufactured or natural mulch, according to standard 484 Mulching.

Streambank Stabilization

Code	Component	Units	Definiton
418	Cable Set 6in.	ea	Cable Set 6" (ea) - Includes the cost of 10 ft of cable, 2 C-clamps, a 6" anchor and 2 sleeves
419	Cable Set 12in.	ea	Cable Set 12" (ea) - Includes the cost of 10 ft of cable, 2 C-clamps, a 12" anchor and 2 sleeves
420	Labor for Tree Revetment Installation	ft	Labor for Revetment Installation (ft) - Includes the cost of manual labor for placing trees or rock etc. by hand
421	Cedar Trees	tree	Cedar Trees (tree) - Includes the cost of one cedar tree cut and delivered to the site.
422	Coconut Fiber Log	ft	Coconut Fiber Log (ft) - The cost of a coconut fiber log used for stream bank stabilization.
423	Willow staking	ft	Willow Staking (ft) - Includes all materials and labor required to stake live willows to a stream bank.

Trees

Code	Component	Units	Definiton
424	Cuttings	ea	Cuttings (ea) - The cost for cuttings used for tree plantings. Cost includes shipping.
425	Conifers	tree	Conifers (tree) - Includes the cost of the bare root conifer seedlings from a state nursery.
432	Conifers (Commercial)	tree	Conifers (Commercial) (tree) - Includes the cost of the bare root conifer seedlings from a commercial nursery.
433	Direct Seeding - Conifer	ac	Direct Seeding - Conifer (ac) - Includes the cost of conifer seed, labor and equipment to complete the planting operation.
434	Hand Planting trees/shrubs	tree	Hand Planting trees/shrubs (tree) Includes the cost of labor to walk from point to point to place woody trees in the ground.
435	Container Trees	tree	Container Trees (tree) - The cost of one 3 gallon container tree. Cost includes price of tree and average shipping charges.
436	Planting Container trees/shrubs	ea	Planting Container trees/shrubs (ea) - Includes the cost of all materials and labor required to plant one 3 gallon container tree.
437	Hardwoods	tree	Hardwoods (tree) - Includes the cost of the bare root seedlings from a state nursery.
438	Hardwoods (Commercial)	tree	Hardwoods (Commercial) (tree) - Includes the cost of the bare root seedlings from a commercial nursery.
439	Direct Seeding - Hardwoods	ac	Direct Seeding - Hardwoods (ac) - Includes the cost of hardwood seed, labor and equipment to complete the planting operation.
441	Machine Planting trees/shrubs	ea	Machine planting trees/shrubs (ea) - Includes the cost of labor and equipment to use mechanized machinery to move from point to point to place woody species in the ground.
442	Shrubs	shrub	Shrubs (shrub) - Includes the cost of the shrub seedling from a state nursery.
443	Shrubs (Commerical)	shrub	Shrubs - Commercial (shrub) - Includes the cost of the shrub seedling from a commercial nursery.
444	Shrubs (container)	shrub	Shrubs (container) (shrub) - Includes the cost of one 3 gallon container shrub.
445	Direct Seeding - Shrub Lespedeza	ac	Direct Seeding - Shrub Lespedeza (ac) - The cost of seed, labor and equipment to complete the planting operation for shrub lespedeza.
446	Slow release fertilizer	tree	Slow Release Fertilizer (tree) - Includes the cost of slow release fertilizer packets.
447	Tree Berm (Rice Plow)	ac	Tree Berm (Rice Plow) (ac) - Includes the cost of all machinery and labor required to create a berm for tree planting. A rice plow is commonly used for this operation.
449	Forest Stand Improvement Light	ac	Forest Stand Improvement Light (ac) – Includes cost of reducing stand stocking or woody vine control. Treatment is light when Basal Area is reduced by 20 to 30 sq ft per ac, or up to 199 trees per acre are eliminated/killed, or when woody vine control is needed. DEFINITION UPDATED 8/2006.
450	Forest Stand Improvement Medium	ac	Forest Stand Improvement Medium (ac) - Includes cost of reducing stand stocking. Treatment is medium when Basal Area is reduced by 31 to 40 sq ft per ac or when 200 to 400 trees per acre are eliminated/killed. DEFINITION UPDATED 8/2006.
451	Forest Stand Improvement Heavy	ac	Forest Stand Improvement Heavy (ac) - Includes cost of reducing stand stocking. Treatment is heavy when Basal Area is reduced by 41 or more sq ft per ac or when over 400 trees per acre are eliminated/killed. DEFINITION UPDATED 8/2006.

Waste Management

Code	Component	Units	Definiton
------	-----------	-------	-----------

453	Closure of Waste Impoundments - Solid Removal	cu yd	Closure of Waste Impoundments - Solid Removal (cu yd) - Cost for removing and spreading material from waste impoundment. UNIT CHANGED 8/2006
454	Closure of Waste Impoundments - Berm excavation and site leveling	cu yd	Closure of Waste Impoundments - Berm excavation and site leveling (cu yd) - Cost for removing berms and mixing soil with remaining solids in waste impoundment. Grading and leveling site is also included.
455	Closure of Waste Impoundments - Concrete demolition and disposal	ton	Closure of Waste Impoundments - Concrete demolition and disposal (ton) - Cost for demolition of concrete and burying on site.
456	Custom Pumping	gal	Custom Pumping (gal) - The cost of pumping out a waste impoundment when preparing for closure. Includes agitation.
457	Incinerator	lb/charge	Incinerator (lb/charge) - The cost of an incinerator that meets standards and specifications. Cost is based on the capacity of the burn cycle (charge) of the incinerator. Size needed is based on the mortality rate of the operation.
458	Guttering	ft	Guttering (ft) - Includes all materials and labor required to install guttering on a new or existing roof.
459	Roofing	sq ft	Roofing (sq ft) - Includes the cost of all materials and labor required to construct a roof over a waste storage structure, or to exclude rainfall. Used for pre-engineered structures and custom designed structures. COMPONENT DEFINITION UPDATED JUNE 2011.
461	Picket Structure -wood	sq ft	Picket Structure - wood (sq ft) - Includes the cost of lumber, bolts, and posts required to complete the practice meeting standards and specifications. To calculate the cost use the standard drawing that is most commonly used in the county.
462	Picket Structure -plastic	sq ft	Picket Structure - plastic (sq ft) - Includes the cost of recycled plastic material (plastic wood) bolts, and posts required to complete the practice meeting standards and specifications. To calculate the cost use the standard drawing that is most commonly used in the county.
463	Flush Tank	cu ft	Flush Tank (cu ft) - The cost of a flush tank and flushing mechanism. Cost is based on the cubic feet that the tank will hold.
464	Chopper/ Screw/ Sewage Pump <=1 HP	ea	Chopper/ Screw/ Sewage Pump (ea) - The cost of a chopper, screw, and/or sewage pump. The cost is an average for the specified range of horse powers. Includes electric motor and assembly.
465	Chopper/ Screw/ Sewage Pump 1 to 3 HP	ea	Chopper/ Screw/ Sewage Pump (ea) - The cost of a chopper, screw, and/or sewage pump. The cost is an average for the specified range of horse powers. Includes electric motor and assembly.
466	Chopper/ Screw/ Sewage Pump 3 to 7 HP	ea	Chopper/ Screw/ Sewage Pump (ea) - The cost of a chopper, screw, and/or sewage pump. The cost is an average for the specified range of horse powers. Includes electric motor and assembly.
467	Chopper/ Screw/ Sewage Pump 7 to 15 HP	ea	Chopper/ Screw/ Sewage Pump (ea) - The cost of a chopper, screw, and/or sewage pump. The cost is an average for the specified range of horse powers. Includes electric motor and assembly.
468	Fuel Engine Pump <=50 HP	ea	Fuel Engine Pump (ea) - The cost of any fuel engine pump. The cost is an average for the specified range of horse powers. Includes fuel engine and assembly.
469	Fuel Engine Pump 50 to 75 HP	ea	Fuel Engine Pump (ea) - The cost of any fuel engine pump. The cost is an average for the specified range of horse powers. Includes fuel engine and assembly.
470	Fuel Engine Pump >75 HP	ea	Fuel Engine Pump (ea) - The cost of any fuel engine pump. The cost is an average for the specified range of horse powers. Includes fuel engine and assembly.
471	Propeller Agitator <=22 ft	ea	Propeller Agitator (ea) - The cost of a Propeller type agitator for a lagoon or pit. COMPONENT UPDATED 8/2006
472	Propeller Agitator 23 - 32 ft	ea	Propeller Agitator (ea) - The cost of a Propeller type agitator for a lagoon or pit. COMPONENT UPDATED 8/2006
473	Propeller Agitator 33 - 42 ft	ea	Propeller Agitator (ea) - The cost of a Propeller type agitator for a lagoon or pit. COMPONENT UPDATED 8/2006
474	Propeller Agitator >42 ft	ea	Propeller Agitator (ea) - The cost of a Propeller type agitator for a lagoon or pit. COMPONENT UPDATED 8/2006
475	Manure Transfer 4in. (Liquid)	ft	Manure Transfer (ft) - Includes the cost of all materials and labor including pipe, risers with shut-off valves, pump stands, air vents, pressure relief valves, thrust blocks and trenching and backfilling necessary to install an underground pipe system. Price is calculated at each diameter and length specified. DEFINITION UPDATED 8/2006.
476	Manure Transfer 6in. (Liquid)	ft	Manure Transfer (ft) - Includes the cost of all materials and labor including pipe, risers with shut-off valves, pump stands, air vents, pressure relief valves, thrust blocks and trenching and backfilling necessary to install an underground pipe system. Price is calculated at each diameter and length specified. DEFINITION UPDATED 8/2006.
477	Manure Transfer 8in. (Liquid)	ft	Manure Transfer (ft) - Includes the cost of all materials and labor including pipe, risers with shut-off valves, pump stands, air vents, pressure relief valves, thrust blocks and trenching and backfilling necessary to install an underground pipe system. Price is calculated at each diameter and length specified. DEFINITION UPDATED 8/2006.
478	Manure Transfer 10in. (Liquid)	ft	Manure Transfer (ft) - Includes the cost of all materials and labor including pipe, risers with shut-off valves, pump stands, air vents, pressure relief valves, thrust blocks and trenching and backfilling necessary to install an underground pipe system. Price is calculated at each diameter and length specified. DEFINITION UPDATED 8/2006.
480	Waste storage facility - liquids (glass lined)	cu ft	Waste storage facility - Liquid (glass lined) (cu ft) - The cost of a "tank" with glass lining on the inside that will be used to store livestock waste.
481	Composting facility	cu ft	Composting Facility (cu ft) - The cost of a composting facility that will be used for the biological stabilization of waste organic material or animal mortalities. The unit is cubic feet of volume that the facility will hold. This component is for the standard composter with concrete floor and concrete walls. Component does NOT include a roof (use Roofing component). DEFINITION UPDATED JUNE 2011

482	Waste storage facility - poultry stacking pad	sq ft	Waste storage facility - Poultry Stacking Pad (sq ft) - The cost of a prepared floor and concrete wall that will be used to store poultry waste or organic material. Unit is square feet of the floor. Does NOT include the roof (use Roofing component). COMPONENT AND DEFINITION UPDATED JUNE 2011.
1014	Waster Storage Facility - concrete stacking pad	sq ft	Waste Storage Facility - concrete stacking pad (sq ft) - The cost of a concrete floor and concrete wall that will be used to store livestock waste or organic material. Unit is square feet of the floor. Does NOT include the roof (use Roofing component). COMPONENT AND DEFINITION UPDATED JUNE 2011.
1013	Biofilter	cu ft	The cost of a biofilter that utilizes the design procedure contained in BAEU-18 (University of Minnesota Extension Service) as outlined in activity sheet 371 Air Filtration and Scrubbing – Biofilter. The cost is for material and labor to install a complete biofilter, the volume is calculated by multiplying the foot print (sq ft) by the depth of the biofilter media. NEW COMPONENT AND DEFINITION ADDED JUNE 2011.

Water Supply

Code	Component	Units	Definiton
484	Freeze Proof Hydrant	ea	Freeze Proof Hydrant (ea) – The cost of all materials and labor required to install one freeze proof hydrant. COMPONENT AND DEFINITION UPDATED 8/2006.
485	Quick Coupler Set	ea	Quick Coupler Set (ea) – The cost of all material and labor required to install one quick coupler riser and valve set. This is used in grazing systems to allow for cost effective water disbursement.
486	Pressure Tank	ea	Pressure Tank (ea) - The cost of a pressure tank with pressure switch and accessories. Also include placement and installation.
487	Waterline Valves	ea	Waterline Valves (ea) - Is the cost of valves needed on some waterlines such as Anti-siphon valves, shut off valves and pressure reducer valves. These valves are in addition to tank, coupler set, and typical pipeline components. DEFINITION UPDATED 2/2008.
488	Solar Panel and Pump <=100 watts	ea	Solar Panel and Pump (ea) - The cost of a solar panel and pump. Cost includes panel, pump, and labor and materials to install.
489	Solar Panel and Pump 100-300 watts	ea	Solar Panel and Pump (ea) - The cost of a solar panel and pump. Cost includes panel, pump, and labor and materials to install.
490	Solar Panel and Pump >=300 watts	ea	Solar Panel and Pump (ea) - The cost of a solar panel and pump. Cost includes panel, pump, and labor and materials to install.
493	Submersible Pump	ea	Submersible Pump (ea) - Includes cost of the pump, all materials and labor required to install one submersible pump. Pipe outside the well casing is paid for as a separate component. COMPONENT AND DEFINITION UPDATED 8/2006.
494	Jet Pump	ea	Jet Pump (ea) - The cost of the pump and all materials and labor required to install one jet pump. Pipe outside the well casing is paid for as a separate component. COMPONENT AND DEFINITION UPDATED 8/2006.
495	Centrifugal Pump	ea	Centrifugal Pump (ea) - The cost of the pump and all materials and labor required to install one centrifugal pump. Pressure tank and other items found on this list are separate. COMPONENT AND DEFINITION UPDATED 8/2006.
496	Tank - Freeze Proof 2 hole	ea	Tank (ea) - The cost of all materials and labor required to install one tank, as specified, that will be used to hold livestock water as part of a grazing system or use exclusion. Does not include any concrete or gravel for a pad. Pads are separate items. Do not include any connectors needed to connect to the pipeline system, those are included in the pipe cost. For freeze proof tanks (2-hole, 4-hole, concrete) or tire tank the cost of earthwork, heat well, and installation of heat well are included in the cost if applicable based upon type of tank. DEFINITION UPDATED 8/2006.
497	Tank - Freeze Proof 4 hole	ea	Tank (ea) - The cost of all materials and labor required to install one tank, as specified, that will be used to hold livestock water as part of a grazing system or use exclusion. Does not include any concrete or gravel for a pad. Pads are separate items. Do not include any connectors needed to connect to the pipeline system, those are included in the pipe cost. For freeze proof tanks (2-hole, 4-hole, concrete) or tire tank the cost of earthwork, heat well, and installation of heat well are included in the cost if applicable based upon type of tank. DEFINITION UPDATED 8/2006.
498	Tank - Freeze Proof concrete less then 250 Gallons	ea	Tank - Freeze Proof Concrete less then 250 Gallons (ea) - The cost of all materials and labor required to install one freeze proof concrete tank that has a capacity of less than 250 gallons. Tank is used to hold livestock water as part of a grazing system or use exclusion. Does not include any concrete or gravel for a pad. Pads are separate items. Do not include any connectors needed to connect to the pipeline system, those are included in the pipe cost. The cost of earthwork, heat well, and installation of heat well are included in the cost if applicable. COMPONENT AND DEFINITION UPDATED 9/2009.
499	Tank - Freeze Proof concrete >=250 Gallons	ea	Tank - Freeze Proof Concrete >=250 Gallons (ea) - The cost of all materials and labor required to install one freeze proof concrete tank that has a capacity of greater than or equal to 250 gallons. Tank is used to hold livestock water as part of a grazing system or use exclusion. Does not include any concrete or gravel for a pad. Pads are separate items. Do not include any connectors needed to connect to the pipeline system, those are included in the pipe cost. The cost of earthwork, heat well, and installation of heat well are included in the cost if applicable. COMPONENT AND DEFINITION UPDATED 9/2009.

500	Tank - open w/float	ea	Tank (ea) - The cost of all materials and labor required to install one tank, as specified, that will be used to hold livestock water as part of a grazing system or use exclusion. Does not include any concrete or gravel for a pad. Pads are separate items. Do not include any connectors needed to connect to the pipeline system, those are included in the pipe cost. For freeze proof tanks (2-hole, 4-hole, concrete) or tire tank the cost of earthwork, heat well, and installation of heat well are included in the cost if applicable based upon type of tank. DEFINITION UPDATED 8/2006.
501	Tank - portable w/float	ea	Tank (ea) - The cost of all materials and labor required to install one tank, as specified, that will be used to hold livestock water as part of a grazing system or use exclusion. Does not include any concrete or gravel for a pad. Pads are separate items. Do not include any connectors needed to connect to the pipeline system, those are included in the pipe cost. For freeze proof tanks (2-hole, 4-hole, concrete) or tire tank the cost of earthwork, heat well, and installation of heat well are included in the cost if applicable based upon type of tank. DEFINITION UPDATED 8/2006.
502	Tank - tire	ea	Tank (ea) - The cost of all materials and labor required to install one tank, as specified, that will be used to hold livestock water as part of a grazing system or use exclusion. Does not include any concrete or gravel for a pad. Pads are separate items. Do not include any connectors needed to connect to the pipeline system, those are included in the pipe cost. For freeze proof tanks (2-hole, 4-hole, concrete) or tire tank the cost of earthwork, heat well, and installation of heat well are included in the cost if applicable based upon type of tank. DEFINITION UPDATED 8/2006.
503	Water Storage Tanks/Spring Tank	gal	Water Storage Tanks/Spring Tank (gal) - The cost of tanks that will be used to used to store water and / or water livestock as part of a grazing system or use exclusion, or spring development. Does not include any concrete or gravel for a pad. Pads are separate items. Do not include any connectors needed to connect to the pipeline system, those are included in the pipe cost. For freeze proof tanks (2-hole, 4-hole, concrete) or tire tank the cost of earthwork, heat well, and installation of heat well are included in the cost if applicable based upon type of tank. COMPONENT AND DEFINITION UPDATED 8/2006.
504	Spring Collection Pipe (concrete) 18in. dia.	ft	Spring Collection Pipe (concrete) (ft) - The cost of all materials, labor and delivery required to install concrete pipe at specified diameters as part of a spring development. DEFINITION UPDATED 8/2006.
505	Spring Collection Pipe (concrete) 24in. dia.	ft	Spring Collection Pipe (concrete) (ft) - The cost of all materials, labor and delivery required to install concrete pipe at specified diameters as part of a spring development. DEFINITION UPDATED 8/2006.
506	Spring Collection Pipe (concrete) 30in. dia.	ft	Spring Collection Pipe (concrete) (ft) - The cost of all materials, labor and delivery required to install concrete pipe at specified diameters as part of a spring development. DEFINITION UPDATED 8/2006.
507	Spring Collection Pipe (concrete) 36in. dia.	ft	Spring Collection Pipe (concrete) (ft) - The cost of all materials, labor and delivery required to install concrete pipe at specified diameters as part of a spring development. DEFINITION UPDATED 8/2006.
508	Spring Collection Pipe (concrete) 48in. dia.	ft	Spring Collection Pipe (concrete) (ft) - The cost of all materials, labor and delivery required to install concrete pipe at specified diameters as part of a spring development. DEFINITION UPDATED 8/2006.
509	Spring Collection Pipe Lid 18in.	ea	Spring Collection Pipe Lid (ea) - The cost of all materials, labor and delivery required to install a lid, at specified sizes, on the collection pipe. DEFINITION UPDATED 8/2006.
510	Spring Collection Pipe Lid 24in.	ea	Spring Collection Pipe Lid (ea) - The cost of all materials, labor and delivery required to install a lid, at specified sizes, on the collection pipe. DEFINITION UPDATED 8/2006.
511	Spring Collection Pipe Lid 30in.	ea	Spring Collection Pipe Lid (ea) - The cost of all materials, labor and delivery required to install a lid, at specified sizes, on the collection pipe. DEFINITION UPDATED 8/2006.
512	Spring Collection Pipe Lid 36in.	ea	Spring Collection Pipe Lid (ea) - The cost of all materials, labor and delivery required to install a lid, at specified sizes, on the collection pipe. DEFINITION UPDATED 8/2006.
513	Spring Collection Pipe Lid 48in.	ea	Spring Collection Pipe Lid (ea) - The cost of all materials, labor and delivery required to install a lid, at specified sizes, on the collection pipe. DEFINITION UPDATED 8/2006.
514	Spring Collection box	ea	Spring collection box (ea) - The cost of the box and all materials, labor and delivery required to install a concrete box for water collection as part of a spring development. DEFINITION UPDATED 8/2006.
515	Spring Development	ea	Spring Development (ea) - The additional cost of excavation and labor for developing a spring for water collection that is not included in other necessary components for the development of the spring (such as the collection pipe and spring box). Costs such as backhoe work for excavation to locate the spring source in preparation for the development should be included in this component. DEFINITION UPDATED 8/2006.
516	Install Livestock pipe into existing structure	ft	Install Livestock pipe into existing structure (ft) - The cost of installing a pipe that will be used to provide water to a hydrant or tank for livestock from an existing pond or similar structure. Include the cost of all labor and machinery needed to cut into the existing dam, place the pipe and appurtenances, and replace dirt to allow the structure to function once again. The hydrant or tank are separate items, and separate installation costs. The cost should be figured on the feet of pipe required.
517	Pipeline Bore	ft	Pipeline Bore (ft) - The cost of the earthmoving and labor required to complete the practice under roads or through dams.

Wells

Code	Component	Units	Definiton
------	-----------	-------	-----------

518	Cement (neat cement)	cu ft	Cement (neat cement) (cu ft) - The cost of a mixture of cement and water with not more than 6 gallons of fresh water per sack of cement.
519	Cement Grout	cu ft	Cement Grout (cu ft) - The cost of a mixture of cement, sand (1:1 ratio) and water (not more than 6 gallons of fresh water per sack of cement).
520	Chlorine	gal	Chlorine (gal) - The cost of a gallon of chlorine used in well closures or water treatment.
521	Remove pump & pipe	ft	Remove pump & pipe (ft) - The cost of all materials and labor required to remove the pump and pipe from an existing well. Cost is per foot of pipe removed.
522	Water Well Casing Removal	ft	Water Well Casing Removal (ft) - Minimum depth of well casing or lining required to be removed by the plans or specifications. Includes the cost of all materials, labor and equipment needed to remove and dispose of the casing or lining. For plugging an abandoned well. DEFINITION UPDATED 8/2006.
523	Well Filling/Well Decommissioning	cu ft	Well filling/Well Decommissioning (cu ft) - The cost per cubic foot of filled area. Includes the cost of machinery and labor to fill in well area with onsite soil when plugging an abandoned well. If offsite soil is needed use this item along with Offsite borrow/fill material. COMPONENT AND DEFINITION UPDATED 8/2006.
526	Water Well Casing	ft	Water well Casing (ft) - The cost of one foot of casing that will be placed in a drilled well. Deep Well Casing is approximately 6 inches in diameter, Shallow Well Casing is approximately 3 feet in diameter.
527	Water Well Drilling	ft	Water well Drilling (ft) - The cost of drilling a water well. Deep Wells will be drilled to fit approximately 6 inch diameter casing. Shallow wells will be drilled to fit approximately 3 foot diameter casing.
528	Water Well Lining	ft	Water well Lining (ft) - The cost of all materials and labor required to line/reline a well when required.
529	Water Well Misc	ea	Water Well Misc. (ea) - The cost of all miscellaneous materials needed to complete the well drilling practice. Items include well cap, grout, seal. Does not include certification fee, wiring, pipe etc.
530	Well House	ea	Well House (ea) - The cost of a well house commonly used to provide shelter for pumps and accessories and labor to install.

Wetland Components

Code	Component	Units	Definiton
545	Inline Water Control Structure 6" dia x 4' ht	ea	Inline Water control structures (ea) – The cost of all materials, shipping, equipment and labor to install one structure. Dimensions are by pipe diameter or weir length x structure height. Select the dimensions which are appropriate for the structure specified on the plans.
546	Inline Water Control Structure 6" dia x 5' ht	ea	Inline Water control structures (ea) – The cost of all materials, shipping, equipment and labor to install one structure. Dimensions are by pipe diameter or weir length x structure height. Select the dimensions which are appropriate for the structure specified on the plans.
547	Inline Water Control Structure 6" dia x 6' ht	ea	Inline Water control structures (ea) – The cost of all materials, shipping, equipment and labor to install one structure. Dimensions are by pipe diameter or weir length x structure height. Select the dimensions which are appropriate for the structure specified on the plans.
558	Inline Water Control Structure 8" dia x 4' ht	ea	Inline Water control structures (ea) – The cost of all materials, shipping, equipment and labor to install one structure. Dimensions are by pipe diameter or weir length x structure height. Select the dimensions which are appropriate for the structure specified on the plans.
559	Inline Water Control Structure 8" dia x 5' ht	ea	Inline Water control structures (ea) – The cost of all materials, shipping, equipment and labor to install one structure. Dimensions are by pipe diameter or weir length x structure height. Select the dimensions which are appropriate for the structure specified on the plans.
560	Inline Water Control Structure 8" dia x 6' ht	ea	Inline Water control structures (ea) – The cost of all materials, shipping, equipment and labor to install one structure. Dimensions are by pipe diameter or weir length x structure height. Select the dimensions which are appropriate for the structure specified on the plans.
582	Inline Water Control Structure 12" dia (or 14" weir) x 2' ht	ea	Inline Water control structures (ea) – The cost of all materials, shipping, equipment and labor to install one structure. Dimensions are by pipe diameter or weir length x structure height. Select the dimensions which are appropriate for the structure specified on the plans.
583	Inline Water Control Structure 12" dia (or 14" weir) x 3' ht	ea	Inline Water control structures (ea) – The cost of all materials, shipping, equipment and labor to install one structure. Dimensions are by pipe diameter or weir length x structure height. Select the dimensions which are appropriate for the structure specified on the plans.
584	Inline Water Control Structure 12" dia (or 14" weir) x 4' ht	ea	Inline Water control structures (ea) – The cost of all materials, shipping, equipment and labor to install one structure. Dimensions are by pipe diameter or weir length x structure height. Select the dimensions which are appropriate for the structure specified on the plans.
585	Inline Water Control Structure 12" dia (or 14" weir) x 5' ht	ea	Inline Water control structures (ea) – The cost of all materials, shipping, equipment and labor to install one structure. Dimensions are by pipe diameter or weir length x structure height. Select the dimensions which are appropriate for the structure specified on the plans.

624	Inline Water Control Structure 24" dia (or 29" weir) x 7' ht	ea	Inline Water control structures (ea) – The cost of all materials, shipping, equipment and labor to install one structure. Dimensions are by pipe diameter or weir length x structure height. Select the dimensions which are appropriate for the structure specified on the plans.
625	Inline Water Control Structure 24" dia (or 29" weir) x 8' ht	ea	Inline Water control structures (ea) – The cost of all materials, shipping, equipment and labor to install one structure. Dimensions are by pipe diameter or weir length x structure height. Select the dimensions which are appropriate for the structure specified on the plans.
626	Inline Water Control Structure 24" dia (or 29" weir) x 9' ht	ea	Inline Water control structures (ea) – The cost of all materials, shipping, equipment and labor to install one structure. Dimensions are by pipe diameter or weir length x structure height. Select the dimensions which are appropriate for the structure specified on the plans.
627	Inline Water Control Structure 24" dia (or 29" weir) x 10' ht	ea	Inline Water control structures (ea) – The cost of all materials, shipping, equipment and labor to install one structure. Dimensions are by pipe diameter or weir length x structure height. Select the dimensions which are appropriate for the structure specified on the plans.
628	Concrete pre-fab water control structure 18" or 24" x 5' (or equiv.)	ea	Concrete pre-fab water control structure (ea) - The cost of purchasing, shipping, and placing concrete water control structures, commonly used in WRP sites.
629	Concrete pre-fab water control structure 18" or 24" x 6' (or equiv.)	ea	Concrete pre-fab water control structure (ea) - The cost of purchasing, shipping, and placing concrete water control structures, commonly used in WRP sites.
630	Concrete pre-fab water control structure 18" or 24" x 7' (or equiv.)	ea	Concrete pre-fab water control structure (ea) - The cost of purchasing, shipping, and placing concrete water control structures, commonly used in WRP sites.
631	Inline Water Control Structure Internal Flap Gate 4" - 8"	ea	Inline Water Control Structure Internal Flap Gate (ea) - The cost of the flap gate, shipping, and machinery and labor to install an internal flap gate.
632	Inline Water Control Structure Internal Flap Gate 10" - 12"	ea	Inline Water Control Structure Internal Flap Gate (ea) - The cost of the flap gate, shipping, and machinery and labor to install an internal flap gate.
633	Inline Water Control Structure Internal Flap Gate 15" - 18"	ea	Inline Water Control Structure Internal Flap Gate (ea) - The cost of the flap gate, shipping, and machinery and labor to install an internal flap gate.
634	Inline Water Control Structure Internal Flap Gate 20+"	ea	Inline Water Control Structure Internal Flap Gate (ea) - The cost of the flap gate, shipping, and machinery and labor to install an internal flap gate.
635	Combination Slide & Turn-out Flap Gate 10in.	ea	Combination Slide & Turn-out Flap Gate (ea) -The cost of all materials, shipping, and labor required to purchase and install one combo slide and turn-out flap gate. One common name is a Turn-A-Flap gate.
636	Combination Slide & Turn-out Flap Gate 12in.	ea	Combination Slide & Turn-out Flap Gate (ea) -The cost of all materials, shipping, and labor required to purchase and install one combo slide and turn-out flap gate. One common name is a Turn-A-Flap gate.
637	Combination Slide & Turn-out Flap Gate 15in.	ea	Combination Slide & Turn-out Flap Gate (ea) -The cost of all materials, shipping, and labor required to purchase and install one combo slide and turn-out flap gate. One common name is a Turn-A-Flap gate.
638	Combination Slide & Turn-out Flap Gate 18in.	ea	Combination Slide & Turn-out Flap Gate (ea) -The cost of all materials, shipping, and labor required to purchase and install one combo slide and turn-out flap gate. One common name is a Turn-A-Flap gate.
639	Combination Slide & Turn-out Flap Gate 24in.	ea	Combination Slide & Turn-out Flap Gate (ea) -The cost of all materials, shipping, and labor required to purchase and install one combo slide and turn-out flap gate. One common name is a Turn-A-Flap gate.
640	Combination Slide & Turn-out Flap Gate 30in.	ea	Combination Slide & Turn-out Flap Gate (ea) -The cost of all materials, shipping, and labor required to purchase and install one combo slide and turn-out flap gate. One common name is a Turn-A-Flap gate.
641	Combination Slide & Turn-out Flap Gate 36in.	ea	Combination Slide & Turn-out Flap Gate (ea) -The cost of all materials, shipping, and labor required to purchase and install one combo slide and turn-out flap gate. One common name is a Turn-A-Flap gate.
642	Slide Gate 10in.	ea	Slide Gate (ea) - The cost of a slide type gate used for water level control. Also includes shipping and installation.
643	Slide Gate 12in.	ea	Slide Gate (ea) - The cost of a slide type gate used for water level control. Also includes shipping and installation.
644	Slide Gate 15in.	ea	Slide Gate (ea) - The cost of a slide type gate used for water level control. Also includes shipping and installation.
645	Slide Gate 18in.	ea	Slide Gate (ea) - The cost of a slide type gate used for water level control. Also includes shipping and installation.
646	Water-Tight Flap Gate 10in.	ea	Water-Tight Flap Gate (ea) - Is the average cost of a flap gate that has a lining around the edge to allow it to seal water tight and allow no water seepage. Also include shipping and installation.
647	Water-Tight Flap Gate 12in.	ea	Water-Tight Flap Gate (ea) - Is the average cost of a flap gate that has a lining around the edge to allow it to seal water tight and allow no water seepage. Also include shipping and installation.
648	Water-Tight Flap Gate 15in.	ea	Water-Tight Flap Gate (ea) - Is the average cost of a flap gate that has a lining around the edge to allow it to seal water tight and allow no water seepage. Also include shipping and installation.

649	Water-Tight Flap Gate 18in.	ea	Water-Tight Flap Gate (ea) - Is the average cost of a flap gate that has a lining around the edge to allow it to seal water tight and allow no water seepage. Also include shipping and installation.
650	Water-Tight Flap Gate 24in.	ea	Water-Tight Flap Gate (ea) - Is the average cost of a flap gate that has a lining around the edge to allow it to seal water tight and allow no water seepage. Also include shipping and installation.
651	Screw/Sluice/Canal Gate (seating head pressure only) 12"	ea	Screw Gate/Sluice Gate/Canal Gate (seating head pressure only) - The cost of a self contained water control structure constructed of a cast iron frame, seated slide cover, and hand wheel; a stainless steel stem; and a brass lift nut that allows for manually raising and lowering the seated slide cover. The structure will be used when seating head pressure (face pressure) will not exceed 20 feet and application will not involve any unseating head pressure (back pressure). Average price to include shipping & handling as well as installation.
652	Screw/Sluice/Canal Gate (seating head pressure only) 15"	ea	Screw Gate/Sluice Gate/Canal Gate (seating head pressure only) - The cost of a self contained water control structure constructed of a cast iron frame, seated slide cover, and hand wheel; a stainless steel stem; and a brass lift nut that allows for manually raising and lowering the seated slide cover. The structure will be used when seating head pressure (face pressure) will not exceed 20 feet and application will not involve any unseating head pressure (back pressure). Average price to include shipping & handling as well as installation.
653	Screw/Sluice/Canal Gate (seating head pressure only) 18"	ea	Screw Gate/Sluice Gate/Canal Gate (seating head pressure only) - The cost of a self contained water control structure constructed of a cast iron frame, seated slide cover, and hand wheel; a stainless steel stem; and a brass lift nut that allows for manually raising and lowering the seated slide cover. The structure will be used when seating head pressure (face pressure) will not exceed 20 feet and application will not involve any unseating head pressure (back pressure). Average price to include shipping & handling as well as installation.
654	Screw/Sluice/Canal Gate (seating head pressure only) 24"	ea	Screw Gate/Sluice Gate/Canal Gate (seating head pressure only) - The cost of a self contained water control structure constructed of a cast iron frame, seated slide cover, and hand wheel; a stainless steel stem; and a brass lift nut that allows for manually raising and lowering the seated slide cover. The structure will be used when seating head pressure (face pressure) will not exceed 20 feet and application will not involve any unseating head pressure (back pressure). Average price to include shipping & handling as well as installation.
655	Screw/Sluice/Canal Gate (seating and unseating head pressure) 12"	ea	Screw Gate/Sluice Gate/Canal Gate (seating and unseating head pressure) - The cost of a self contained water control structure constructed of a cast iron frame, seated slide cover, and hand wheel; a stainless steel stem; and a brass lift nut that allows for manually raising and lowering the seated slide cover. The structure will be used when seating head pressure (face pressure) will not exceed 20 feet and will not exceed an unseating head pressure (back pressure) of 10 feet. Average price to include shipping & handling as well as installation.
656	Screw/Sluice/Canal Gate (seating and unseating head pressure) 15"	ea	Screw Gate/Sluice Gate/Canal Gate (seating and unseating head pressure) - The cost of a self contained water control structure constructed of a cast iron frame, seated slide cover, and hand wheel; a stainless steel stem; and a brass lift nut that allows for manually raising and lowering the seated slide cover. The structure will be used when seating head pressure (face pressure) will not exceed 20 feet and will not exceed an unseating head pressure (back pressure) of 10 feet. Average price to include shipping & handling as well as installation.
657	Screw/Sluice/Canal Gate (seating and unseating head pressure) 18"	ea	Screw Gate/Sluice Gate/Canal Gate (seating and unseating head pressure) - The cost of a self contained water control structure constructed of a cast iron frame, seated slide cover, and hand wheel; a stainless steel stem; and a brass lift nut that allows for manually raising and lowering the seated slide cover. The structure will be used when seating head pressure (face pressure) will not exceed 20 feet and will not exceed an unseating head pressure (back pressure) of 10 feet. Average price to include shipping & handling as well as installation.
658	Screw/Sluice/Canal Gate (seating and unseating head pressure) 24"	ea	Screw Gate/Sluice Gate/Canal Gate (seating and unseating head pressure) - The cost of a self contained water control structure constructed of a cast iron frame, seated slide cover, and hand wheel; a stainless steel stem; and a brass lift nut that allows for manually raising and lowering the seated slide cover. The structure will be used when seating head pressure (face pressure) will not exceed 20 feet and will not exceed an unseating head pressure (back pressure) of 10 feet. Average price to include shipping & handling as well as installation.
659	Drop Inlet PVC Elbow 4in.	ea	Drop Inlet PVC Elbows (ea) - The cost per diameter inch for PVC elbows used in drop inlets. Base price on SDR 35 material.
660	Drop Inlet PVC Elbow 6in.	ea	Drop Inlet PVC Elbows (ea) - The cost per diameter inch for PVC elbows used in drop inlets. Base price on SDR 35 material.
661	Drop Inlet PVC Elbow 8in.	ea	Drop Inlet PVC Elbows (ea) - The cost per diameter inch for PVC elbows used in drop inlets. Base price on SDR 35 material.
662	Drop Inlet PVC Elbow 10in.	ea	Drop Inlet PVC Elbows (ea) - The cost per diameter inch for PVC elbows used in drop inlets. Base price on SDR 35 material.
663	Drop Inlet PVC Elbow 12in.	ea	Drop Inlet PVC Elbows (ea) - The cost per diameter inch for PVC elbows used in drop inlets. Base price on SDR 35 material.
664	Weir Box 30in.w x 32in.d x 24in.h	ea	Weir boxes (ea) - The cost of all materials and labor required to install one weir box at each corresponding size. Also include shipping and installation.

665	Weir Box 30in.w x 32in.d x 30in.h	ea	Weir boxes (ea) - The cost of all materials and labor required to install one weir box at each corresponding size. Also include shipping and installation.
666	Weir Box 30in.w x 32in.d x 36in.h	ea	Weir boxes (ea) - The cost of all materials and labor required to install one weir box at each corresponding size. Also include shipping and installation.
667	Weir Box 36in.w x 38in.d x 36in.h	ea	Weir boxes (ea) - The cost of all materials and labor required to install one weir box at each corresponding size. Also include shipping and installation.
668	Weir Box 40in.w x 42in.d x 36in.h	ea	Weir boxes (ea) - The cost of all materials and labor required to install one weir box at each corresponding size. Also include shipping and installation.
669	Plastic Weir Riser 36in. X 18in.	ea	Plastic Weir Riser (ea) - Is the average cost of a single plastic one sided weir box, any shipping and installation. This component can be used as a structure for water control in irrigation as well as wetland situations.
670	Plastic Weir Riser 48in. X 24in.	ea	Plastic Weir Riser (ea) - Is the average cost of a single plastic one sided weir box, any shipping and installation. This component can be used as a structure for water control in irrigation as well as wetland situations.
671	Plastic Gasketed Riser 21in. X 15in.	ea	Plastic Gasketed Riser (ea) - The cost of a single gasketed riser, any shipping and installation. This component can be used as a structure for water control in irrigation as well as wetland situations.
672	Plastic Gasketed Riser 24in. X 18in.	ea	Plastic Gasketed Riser (ea) - The cost of a single gasketed riser, any shipping and installation. This component can be used as a structure for water control in irrigation as well as wetland situations.
673	Wetland Creative Borrow - Long Haul	cu yd	Wetland Creative Borrow-Long Haul (cu yd) - The cost of all machinery and labor required to create shallow water areas by excavation. Average haul distance between excavation and disposal area is greater than 400 feet. The borrow material is not used as paid earthfill under another component. DEFINITION UPDATED 8/2006.
674	Wetland Creative Borrow - Short Haul	cu yd	Wetland Creative Borrow-Short Haul (cu yd) - The cost of all machinery and labor required to create shallow water areas by excavation. Average haul distance between excavation and disposal area is less than 400 feet. The borrow material is not used as paid earthfill under another component. DEFINITION UPDATED 8/2006.
675	Wetland Habitat Mounds	cu yd	Wetland Habitat Mounds (cu yd) - The cost of all machinery and labor required to stack and form soil to create mound for wildlife habitat in wetlands.
676	Anchors	diam in	Anchors (diam in) - The cost of screw anchors, cable and clamps used to anchor pipe to the ground in wetlands to prevent the pipe from floating.
677	Levee (Water management)	cu yd	Levee (water management) (cu yd) - The cost of earthmoving, earth placement, pipe backfill, structure backfill, other excavation, and labor required to build a low height levee for wetland activities. The cost includes the stripping of vegetation from the foundation area. Measurement and pay limits are: a) lower limit is the original ground line as it existed prior to the start of construction operations, b) upper and lateral limits are the specified neat lines of the constructed surface of the levee. A typical application is for wetland restoration.
811	Concrete Manhole Water Control Structure, 4' diam x 3' tall	ea	Concrete Manhole Water Control Structure (ea) - The cost of all labor, materials and equipment required to fabricate, deliver and install the structure, metal grating, interior steps, wier boards and rock base. Flap gate wier board is not included in this cost. NEW COMPONENT AND DEFINITION ADDED 8/2006.
812	Concrete Manhole Water Control Structure, 4' diam x 4' tall	ea	Concrete Manhole Water Control Structure (ea) - The cost of all labor, materials and equipment required to fabricate, deliver and install the structure, metal grating, interior steps, wier boards and rock base. Flap gate wier board is not included in this cost. NEW COMPONENT AND DEFINITION ADDED 8/2006.
813	Concrete Manhole Water Control Structure, 4' diam x 5' tall	ea	Concrete Manhole Water Control Structure (ea) - The cost of all labor, materials and equipment required to fabricate, deliver and install the structure, metal grating, interior steps, wier boards and rock base. Flap gate wier board is not included in this cost. NEW COMPONENT AND DEFINITION ADDED 8/2006.
814	Concrete Manhole Water Control Structure, 4' diam x 6' tall	ea	Concrete Manhole Water Control Structure (ea) - The cost of all labor, materials and equipment required to fabricate, deliver and install the structure, metal grating, interior steps, wier boards and rock base. Flap gate wier board is not included in this cost. NEW COMPONENT AND DEFINITION ADDED 8/2006.
815	Concrete Manhole Water Control Structure, 5' diam x 3' tall	ea	Concrete Manhole Water Control Structure (ea) - The cost of all labor, materials and equipment required to fabricate, deliver and install the structure, metal grating, interior steps, wier boards and rock base. Flap gate wier board is not included in this cost. NEW COMPONENT AND DEFINITION ADDED 8/2006.
816	Concrete Manhole Water Control Structure, 5' diam x 4' tall	ea	Concrete Manhole Water Control Structure (ea) - The cost of all labor, materials and equipment required to fabricate, deliver and install the structure, metal grating, interior steps, wier boards and rock base. Flap gate wier board is not included in this cost. NEW COMPONENT AND DEFINITION ADDED 8/2006.
817	Concrete Manhole Water Control Structure, 5' diam x 5' tall	ea	Concrete Manhole Water Control Structure (ea) - The cost of all labor, materials and equipment required to fabricate, deliver and install the structure, metal grating, interior steps, wier boards and rock base. Flap gate wier board is not included in this cost. NEW COMPONENT AND DEFINITION ADDED 8/2006.
818	Concrete Manhole Water Control Structure, 5' diam x 6' tall	ea	Concrete Manhole Water Control Structure (ea) - The cost of all labor, materials and equipment required to fabricate, deliver and install the structure, metal grating, interior steps, wier boards and rock base. Flap gate wier board is not included in this cost. NEW COMPONENT AND DEFINITION ADDED 8/2006.

819	Flapgate Wier Board, 4' wide	ea	Flapgate Wier Board (ea) - The cost of all labor, materials and equipment required to fabricate, deliver and install a flap gate wier board for a concrete manhole water control structure. NEW COMPONENT AND DEFINITION ADDED 8/2006.
820	Flapgate Wier Board, 5' wide	ea	Flapgate Wier Board (ea) - The cost of all labor, materials and equipment required to fabricate, deliver and install a flap gate wier board for a concrete manhole water control structure. NEW COMPONENT AND DEFINITION ADDED 8/2006.

Other Components

Code	Component	Units	Definiton
678	Concrete Grade Stabilization Structure	cu yd	Concrete Grade Stabilization Structure (cu yd) - The cost of excavation, earthfill, reinforcing steel, concrete, drain fill, and rip rap. Any seeding required should be separate. The cost is calculated based on cubic yards of concrete required.
679	CRP boundary Marker	ea	CRP Boundary Marker (ea) - The cost for a permanent marker to be used to mark the boundary of CRP practice CP33. Marker could include fiberglass posts, wood posts or any other permanent marker.
680	Downed Tree Structure	ea	Downed Tree Structure (ea) - The cost of placing downed trees in and around shrub plantings or food plots. Each structure requires three downed trees.
686	Prescribed Burning	ac	Prescribed Burning (ac) - Includes costs necessary to implement a prescribed burn according the Prescribed Burning Management Plan. This includes labor, fire suppression equipment use or rental, fuel, supplies, monitoring, and stacking and removing of debris.
687	Prescribed Burning - Woodland	ac	Prescribed Burning - Woodland(ac) - Includes costs necessary to implement a prescribed burn according the Prescribed Burning Management Plan. This includes labor, fire suppression equipment use or rental, fuel, supplies, monitoring, and stacking and removing of debris.
689	Soil Test	ea	Soil Test (ea) - The cost of having soil samples tested for pH and nutrient content.
690	Straw Bale	ea	Straw Bale (ea) - The cost of one bale of straw used as a straw bale sediment trap in waterways or similar practices.
694	Wildlife Watering Facility	ea	Wildlife Watering Facility (ea) - The cost of all machinery, labor and materials required to construct a shallow water area for wildlife.
934	Silt Fence	lin ft	Silt Fence (lin ft) - The cost of materials and labor for the installation of a silt fence to be used for temporary erosion control in cases such as during vegetative establishment for grassed waterways or stormwater pollution prevention. NEW COMPONENT AND DEFINITION ADDED 11/08.

Labor and Equipment

Code	Component	Units	Definiton
695	Dozer	hr	Labor and Equipment (hr) - The cost per hour for related labor and equipment. DEFINITION UPDATED 11/08.
696	Labor/Personal	hr	Labor and Equipment (hr) - The cost per hour for related labor and equipment. DEFINITION UPDATED 11/08.
697	Labor/Hired	hr	Labor and Equipment (hr) - The cost per hour for related labor and equipment. DEFINITION UPDATED 11/08.
698	Chain Saw	hr	Labor and Equipment (hr) - The cost per hour for related labor and equipment. DEFINITION UPDATED 11/08.
699	Tractor with Loader up to 100 HP	hr	Labor and Equipment (hr) - The cost per hour for related labor and equipment. DEFINITION UPDATED 11/08.
700	Tractor with Loader greater than 100 HP	hr	Labor and Equipment (hr) - The cost per hour for related labor and equipment. DEFINITION UPDATED 11/08.
701	Skid Loader	hr	Labor and Equipment (hr) - The cost per hour for related labor and equipment. DEFINITION UPDATED 11/08.
702	Track Hoe	hr	Labor and Equipment (hr) - The cost per hour for related labor and equipment. DEFINITION UPDATED 11/08.