

## FY 2009 Component Definitions

### Earthmoving

Code	Component	Units	Definiton
1	Earthfill, compacted	cu yd	<p>Earthfill, compacted (dams, dikes, diversions, WASCObS) (cu yd)- The cost of the earthmoving, earth placement and labor required to build a dam, dike, diversion, WASCOb, 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 DEFINITION 8/2006.</p>
2	Earthfill, compacted small	cu yd	<p>Earthfill, compacted small (dams,dikes, diversions, WASCObS) (cu yd) – The cost of the earthmoving, earth placement and labor required to build a dam, dike, diversion, WASCOb, 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</p>

			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 DEFINITION 8/2006.
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 (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.
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.
902	Spoil Spreading - Sediment <=2' deep and top width <20'	sq ft	Spoil Spreading (sq ft) - The cost of disposing of surplus excavated materials on sites where spoil material is available from excavation of channels, drainage ditches, irrigation canals, or other constructions sites. Cost includes excavation and spreading. NEW COMPONENT AND DEFINITION ADDED 5/28/2008
903	Spoil Spreading - Sediment <=2' deep and top width >20'	sq ft	Spoil Spreading (sq ft) - The cost of disposing of surplus excavated materials on sites where spoil material is available from excavation of channels, drainage ditches, irrigation canals, or other constructions sites. Cost includes excavation and spreading. NEW COMPONENT AND DEFINITION ADDED 5/28/2008
904	Spoil Spreading - Sediment >2' deep and top width <20'	sq ft	Spoil Spreading (sq ft) - The cost of disposing of surplus excavated materials on sites where spoil material is available from excavation of channels, drainage ditches, irrigation canals, or other constructions sites. Cost includes excavation and spreading. NEW COMPONENT AND DEFINITION ADDED 5/28/2008
905	Spoil Spreading - Sediment >2'	sq ft	Spoil Spreading (sq ft) - The cost of disposing of surplus

	deep and top width >20'		excavated materials on sites where spoil material is available from excavation of channels, drainage ditches, irrigation canals, or other construction sites. Cost includes excavation and spreading. NEW COMPONENT AND DEFINITION ADDED 5/28/2008
906	Spoil Spreading - Sediment >= 4' deep	sq ft	Spoil Spreading (sq ft) - The cost of disposing of surplus excavated materials on sites where spoil material is available from excavation of channels, drainage ditches, irrigation canals, or other construction sites. Cost includes excavation and spreading. NEW COMPONENT AND DEFINITION ADDED 5/28/2008
907	Spoil Spreading - Spreading only	ft	Spoil Spreading (ft)- The cost of disposing of surplus excavated materials on sites where spoil material is available from excavation of channels, drainage ditches, irrigation canals, or other construction sites. Cost includes spreading only where the ditch has been excavated and cast along the bank. COMPONENT AND DEFINITION ADDED 5/28/2008

### Fence

Code	Component	Units	Definiton
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. <b>UPDATED COMPONENT NAME AND DEFINITION 8/2006.</b>
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. <b>UPDATED DEFINITION 8/2006.</b>
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. <b>DEFINITION UPDATED 8/2006.</b>
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 <1 Joule for temporary fencing	ea	Electric fence energizer <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.
42	Fine Filter Material	ton	Fine Filter material (ton) - The cost of all material, equipment and labor cost of one ton of clean, washed sand delivered and placed.
43	Medium Filter Material	ton	Medium Filter material (ton) - The cost of all material, equipment and labor cost of one ton of clean, washed non-limestone gravel less than 3" in size delivered and placed.
44	Gabion Basket	cu yd	Gabion Basket (cu yd) - The cost of material, equipment and labor costs of the basket material, rock fill, basket assembly, basket filling and placement. Payment is based on the volume, in cubic yards, of rock required to fill the baskets.
45	Geosynthetic Clay Liner	sq ft	Geosynthetic Clay Liner (sq ft) - The cost of a purchasing and placing a geosynthetic clay liner that meets standards and specification as a sealant.
46	High Density Polypropylene Liner (SF)	sq ft	High Density Polypropylene Liner (SF) (sq ft) - The cost of a purchasing and placing a High Density Polypropylene Liner

			that meets standards and specification as a sealant.
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.
49	Tetrasodium pyrophosphate	ton	Tetrasodium Pyrophosphate (ton) - The cost of purchasing and placing tetrasodium pyrophosphate that meets standards and specification as a sealant.
50	Waste Lime (Fill Material)	ton	Waste Lime (Fill Material) (ton) - The cost for waste lime used as fill material delivered and placed. UPDATED DEFINITION 8/2006
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.
54	Rock Excavation	cu yd	Rock excavation (cu yd) - The cost of removing one cubic yard of rock from the site where a conservation practice will be installed. Cost includes equipment and labor required to remove the rock from the immediate site so the conservation practice can function as designed.
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.
58	Concrete Blocks (Large)	cu yd	Concrete Blocks (Large) - The cost of one cubic yard of concrete in blocks. Typical measurements of a block are 2 feet wide by 2 feet high by 4 feet long, but dimensions may vary. The volume of a 2 foot x 2 foot x 4 foot block is 16 cubic feet or 0.6 cubic yard. The maximum width to be used for block volume computation is 2 feet unless a wider block is required by the practice design. Quantity for payment is the number of concrete blocks-large times the cubic yards in each block. Cost included delivery, equipment and labor for installation. LAST UPDATED 4/25/2006.
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.
65	Geocells	sq yd	Geocells (sq yd) - The cost of the polymer containment cell product (sq yd), required pins and lacing, shipping, and installation labor. Does not include the cost of the backfill material for the void area of the geocell or seeding as required. Geocells are - Long term, non-degradable and UV stabilized polymer product that forms a grid of open cells that will be filled with either rock or soil for use on slopes or in channels. UPDATED DEFINITION 8/2006.
66	Turf Reinforcement Mats Type 1 Soil Filled	sq yd	Turf Reinforcement Mat Type 1 (TRM) (sq yd) – The cost of a 8 oz mat (sq yd), required pins, shipping, and installation labor (Soil filled TRM's include the cost of earthfill on top of mat).

			TRM's are - Synthetic Long term, non-degradable rolled erosion control product composed of UV stabilized, non-degradable, synthetic fibers, filaments, nettings and/or wire mesh processed into three dimensional reinforcement matrices. Turf reinforcement mats provide sufficient thickness, strength and void space to permit soil filling and/or retention and the development of vegetation within the matrix.
67	Turf Reinforcement Mats Type 1 Non Soil Filled	sq yd	Turf Reinforcement Mat Type 1 (TRM) (sq yd) – The cost of a 8 oz mat (sq yd), required pins, shipping, and installation labor (Soil filled TRM's include the cost of earthfill on top of mat). TRM's are - Synthetic Long term, non-degradable rolled erosion control product composed of UV stabilized, non-degradable, synthetic fibers, filaments, nettings and/or wire mesh processed into three dimensional reinforcement matrices. Turf reinforcement mats provide sufficient thickness, strength and void space to permit soil filling and/or retention and the development of vegetation within the matrix.
68	Turf Reinforcement Mats Type 2 Soil Filled	sq yd	Turf Reinforcement Mat Type 2 (TRM) (sq yd) – The cost of a 12 oz mat (sq yd), required pins, shipping, and installation labor (Soil filled TRM's include the cost of earthfill on top of mat). TRM's are - Synthetic Long term, non-degradable rolled erosion control product composed of UV stabilized, non-degradable, synthetic fibers, filaments, nettings and/or wire mesh processed into three dimensional reinforcement matrices. Turf reinforcement mats provide sufficient thickness, strength and void space to permit soil filling and/or retention and the development of vegetation within the matrix.
69	Turf Reinforcement Mats Type 2 Non Soil Filled	sq yd	Turf Reinforcement Mat Type 2 (TRM) (sq yd) – The cost of a 12 oz mat (sq yd), required pins, shipping, and installation

			labor (Soil filled TRM's include the cost of earthfill on top of mat). TRM's are - Synthetic Long term, non-degradable rolled erosion control product composed of UV stabilized, non-degradable, synthetic fibers, filaments, nettings and/or wire mesh processed into three dimensional reinforcement matrices. Turf reinforcement mats provide sufficient thickness, strength and void space to permit soil filling and/or retention and the development of vegetation within the matrix.
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.
73	Water packing	ft	Water packing (ft) - Includes the cost of applying water to soil during construction to improve compaction of soil material. Use for UGO installation only.
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
74	Back Flow Prevention 6in. Valve	ea	Back Flow Prevention Valve (ea) - The cost of one Back Flow Prevention Valve.
75	Back Flow Prevention 8in. Valve	ea	Back Flow Prevention Valve (ea) - The cost of one Back Flow Prevention Valve.
76	Back Flow Prevention 10in. Valve	ea	Back Flow Prevention Valve (ea) - The cost of one Back Flow Prevention Valve.
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.
79	Crown Regrade	ft	Crown Regrade-(ft) Includes the cost per foot to construct a water distribution pad for use with lay flat pipe.
80	Drip Irrigation System	ac	Drip Irrigation System (ac) - Includes the cost of materials and labor required to install buried drip irrigation systems. Costs not included are: supply lines, filtration and fertigation equipment, and automated zone control hardware.
81	Irrigation Land Leveling	ac	Irrigation Land Leveling (ac) - Includes the cost of re-grading cropland fields that are currently surface irrigated.
82	Permanent Outside Levee	ft	Permanent Outside Levee-(ft) Includes the cost per foot to

			construct a permanent levee for rice production with a minimum height of 0.5' above permanent flood pool and a minimum top width of 6' with 1.5:1 or flatter side slopes.
83	Shut Off Valve for Irrigation Inline Underground 8"	ea	Shut Off Valve for Irrigation (ea) - Is the average cost of one inline Irrigation Shut Off Valve.
84	Shut Off Valve for Irrigation Inline Underground 10"	ea	Shut Off Valve for Irrigation (ea) - Is the average cost of one inline Irrigation Shut Off Valve.
85	Shut Off Valve for Irrigation Inline Underground 12"	ea	Shut Off Valve for Irrigation (ea) - Is the average cost of one inline Irrigation Shut Off Valve.
86	Shut Off Valve for Irrigation Inline Underground 15"	ea	Shut Off Valve for Irrigation (ea) - Is the average cost of one inline Irrigation Shut Off Valve.
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.
93	Tailwater Recovery Pump	ea	Tailwater Recovery Pump (ea) Includes the cost of one pump to lift water into an irrigation storage reservoir and labor to

			install.
94	Underground Pipe System greater than 50 ft - 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 greater than 50 ft - 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 greater than 50 ft - 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 greater than 50 ft - 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 greater than 50 ft - 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.
99	Underground Pipe System less than or equal to 50 ft - 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.
100	Underground Pipe System less than or equal to 50 ft - 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.
101	Underground Pipe System less than or equal to 50 ft - 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.
102	Underground Pipe System less than or equal to 50 ft - 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.

### 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

			<b>8/2006</b>
<b>118</b>	<b>Smooth Steel 36in.</b>	<b>ft</b>	<b>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</b>
<b>119</b>	<b>Smooth Steel 42in.</b>	<b>ft</b>	<b>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</b>
<b>120</b>	<b>Smooth Steel 48in.</b>	<b>ft</b>	<b>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</b>
<b>121</b>	<b>Smooth Steel 54in.</b>	<b>ft</b>	<b>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</b>
<b>122</b>	<b>Smooth Steel 60in.</b>	<b>ft</b>	<b>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</b>
<b>123</b>	<b>Smooth Steel 72in.</b>	<b>ft</b>	<b>Smooth Steel Pipe (ft) – The cost of smooth steel pipe per foot. Price includes delivery, placement and welding charges.</b>

			Any fittings should also be included. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
124	Smooth Steel 84in.	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
125	Smooth Steel Pipe	diam in	Smooth Steel Pipe (diam in) - The cost of smooth steel pipe per diameter inch. 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 <b>REQUIRED</b> by the standard/specification. Does not include cost of excavation, trenching or backfilling. <b>DEFINITION UPDATED 8/2006.</b>
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 <b>REQUIRED</b> by the standard/specification. Does not include cost of excavation, trenching or backfilling. <b>DEFINITION UPDATED 8/2006.</b>
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 <b>REQUIRED</b> by the standard/specification. Does not include cost of excavation, trenching or backfilling. <b>DEFINITION UPDATED 8/2006.</b>
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 <b>REQUIRED</b> by the standard/specification. Does not include cost of excavation, trenching or backfilling. <b>DEFINITION UPDATED 8/2006.</b>
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. <b>DEFINITION UPDATED 8/2006.</b>

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.
144	Corrugated Steel 42in.	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.
145	Corrugated Steel 48in.	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.
146	Corrugated Steel 54in.	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.
147	Corrugated Steel 60in.	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.
148	Corrugated Steel 72in.	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.
149	Corrugated Steel 84in.	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.
150	Corrugated Steel Pipe	diam in	Corrugated Steel Pipe (diam in) - The cost of corrugated steel pipe per diameter inch 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 8/2006.
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 8/2006.
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

			<b>cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.</b>
154	PVC 1 1/4in.	ft	<b>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 8/2006.</b>
155	PVC 1 1/2in.	ft	<b>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 8/2006.</b>
156	PVC 2in.	ft	<b>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 8/2006.</b>
157	PVC 3in.	ft	<b>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</b>

			<b>UPDATED 8/2006.</b>
<b>158</b>	<b>Schedule 40 PVC 4in.</b>	<b>ft</b>	<b>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 8/2006.</b>
<b>159</b>	<b>Schedule 40 PVC 5in.</b>	<b>ft</b>	<b>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 8/2006.</b>
<b>160</b>	<b>Schedule 40 PVC 6in.</b>	<b>ft</b>	<b>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 8/2006.</b>
<b>161</b>	<b>Schedule 40 PVC 8in.</b>	<b>ft</b>	<b>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 8/2006.</b>

162	Schedule 40 PVC 10in.	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 8/2006.
163	Schedule 40 PVC 12in.	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 8/2006.
164	Schedule 40 PVC 15in.	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 8/2006.
165	Schedule 40 PVC 18in.	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 8/2006.
166	Schedule 40 PVC 24in.	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 8/2006.
167	Schedule 40 PVC 30in.	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 8/2006.
168	Schedule 40 PVC 36in.	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 8/2006.
169	PVC (IPS) 100psi 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 8/2006.
170	PVC (IPS) 100psi 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 8/2006.
171	PVC (IPS) 100psi 6in.	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 8/2006.
172	PVC (IPS) 100psi 8in.	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 8/2006.
173	PVC (IPS) 100psi 10in.	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 8/2006.
174	SDR 17 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 8/2006.
175	SDR 17 PVC 6in.	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 8/2006.
176	SDR 17 PVC 8in.	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 8/2006.
177	SDR 21 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 8/2006.
178	SDR 21 PVC 6in.	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 8/2006.
179	SDR 21 PVC 8in.	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 8/2006.
180	SDR 21 PVC 10in.	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 8/2006.
181	SDR 26 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 8/2006.
182	SDR 26 PVC 6in.	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

			<b>cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.</b>
<b>183</b>	<b>SDR 26 PVC 8in.</b>	<b>ft</b>	<b>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 8/2006.</b>
<b>184</b>	<b>SDR 26 PVC 10in.</b>	<b>ft</b>	<b>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 8/2006.</b>
<b>185</b>	<b>SDR 26 PVC 12in.</b>	<b>ft</b>	<b>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 8/2006.</b>
<b>186</b>	<b>SDR 26 PVC 15in.</b>	<b>ft</b>	<b>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</b>

			UPDATED 8/2006.
187	SDR 26 PVC 18in.	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 8/2006.
188	SDR 26 PVC 24in.	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 8/2006.
189	SDR 26 PVC 30in.	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 8/2006.
190	SDR 26 PVC 36in.	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 8/2006.

191	SDR 35 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 8/2006.
192	SDR 35 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 8/2006.
193	SDR 35 PVC 6in.	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 8/2006.
194	SDR 35 PVC 8in.	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 8/2006.
195	SDR 35 PVC 10in.	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 8/2006.
196	SDR 35 PVC 12in.	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 8/2006.
197	SDR 35 PVC 15in.	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 8/2006.
198	SDR 35 PVC 18in.	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 8/2006.
199	SDR 35 PVC 24in.	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 8/2006.
200	SDR 41 PVC 6in.	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 8/2006.
201	SDR 41 PVC 8in.	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 8/2006.
202	SDR 41 PVC 10in.	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 8/2006.
203	SDR 51 PVC 8in.	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 8/2006.
204	SDR 51 PVC 10in.	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 8/2006.
205	SDR 51 PVC 12in.	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 8/2006.
206	SDR 51 PVC 15in.	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 8/2006.
207	PVC	diam in	PVC Pipe (diam in) - The cost of PVC pipe per diameter inch delivered. All pipe must meet 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 8/2006
208	Smooth PE 1/2in.	ft	Smooth PE Pipe (ft) – The cost of smooth polyethylene pipe normally used for livestock water delivery. All pipe must meet the minimums specified in the standards and specs. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
209	Smooth PE 3/4in.	ft	Smooth PE Pipe (ft) – The cost of smooth polyethylene pipe normally used for livestock water delivery. All pipe must meet the minimums specified in the standards and specs. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
210	Smooth PE 1in.	ft	Smooth PE Pipe (ft) – The cost of smooth polyethylene pipe normally used for livestock water delivery. All pipe must meet the minimums specified in the standards and specs. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
211	Smooth PE 1 1/4in.	ft	Smooth PE Pipe (ft) – The cost of smooth polyethylene pipe normally used for livestock water delivery. All pipe must meet the minimums specified in the standards and specs. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
212	Smooth PE 1 1/2in.	ft	Smooth PE Pipe (ft) – The cost of smooth polyethylene pipe

			normally used for livestock water delivery. All pipe must meet the minimums specified in the standards and specs. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
213	Smooth PE 2in.	ft	Smooth PE Pipe (ft) – The cost of smooth polyethylene pipe normally used for livestock water delivery. All pipe must meet the minimums specified in the standards and specs. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
214	Smooth PE 3in.	ft	Smooth PE Pipe (ft) – The cost of smooth polyethylene pipe normally used for livestock water delivery. All pipe must meet the minimums specified in the standards and specs. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
215	Smooth PE 4in.	ft	Smooth PE Pipe (ft) – The cost of smooth polyethylene pipe normally used for livestock water delivery. All pipe must meet the minimums specified in the standards and specs. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006.
216	Smooth PE	diam in	Smooth PE Pipe (diam in) - The cost of smooth polyethylene pipe normally used for livestock water delivery. All pipe must meet the minimums specified in the standards and specs. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006

217	Corrugated PE 4in.	ft	Corrugated PE Pipe (ft) – The cost of 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.
218	Corrugated PE 5in.	ft	Corrugated PE Pipe (ft) – The cost of 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.
219	Corrugated PE 6in.	ft	Corrugated PE Pipe (ft) – The cost of 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.
220	Corrugated PE 8in.	ft	Corrugated PE Pipe (ft) – The cost of 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.
221	Corrugated PE 10in.	ft	Corrugated PE Pipe (ft) – The cost of 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.
222	Corrugated PE 12in.	ft	Corrugated PE Pipe (ft) – The cost of 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.
223	Corrugated PE 15in.	ft	Corrugated PE Pipe (ft) – The cost of 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.
224	Corrugated PE 18in.	ft	Corrugated PE Pipe (ft) – The cost of 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.
225	Corrugated PE	diam in	Corrugated PE Pipe (diam in) - The cost of corrugated polyethylene pipe per diameter inch. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006
226	Corrugated Double Walled PE 4in.	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.
227	Corrugated Double Walled PE 5in.	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.
228	Corrugated Double Walled PE	ft	Corrugated Double Walled PE Pipe (ft) – The cost of

	6in.		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.
229	Corrugated Double Walled PE 8in.	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.
230	Corrugated Double Walled PE 10in.	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.
231	Corrugated Double Walled PE 12in.	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.
232	Corrugated Double Walled PE 15in.	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.
233	Corrugated Double Walled PE 18in.	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.

			<b>DEFINITION UPDATED 8/2006.</b>
234	<b>Corrugated Double Walled PE 24in.</b>	<b>ft</b>	<b>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.</b>
235	<b>Corrugated Double Walled PE</b>	<b>diam in</b>	<b>Corrugated Double Walled PE Pipe (diam in) - The cost of corrugated polyethylene double wall pipe per diameter inch. Price includes delivery charges, fittings, connectors and placement. Does not include cost of excavation, trenching or backfilling. DEFINITION UPDATED 8/2006</b>
236	<b>Perforated corrugated PE pipe 4in.</b>	<b>ft</b>	<b>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.</b>
237	<b>Perforated corrugated PE pipe 5in.</b>	<b>ft</b>	<b>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.</b>
238	<b>Perforated corrugated PE pipe 6in.</b>	<b>ft</b>	<b>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.</b>
239	<b>Perforated corrugated PE pipe 8in.</b>	<b>ft</b>	<b>Perforated Corrugated PE Pipe (ft) – The cost of perforated corrugated polyethylene pipe per foot. Price includes delivery</b>

			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.

245	Perforated corrugated PE pipe	diam in	Perforated Corrugated PE Pipe (diam in) - The cost of perforated corrugated polyethylene pipe per diameter inch. 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.
277	Pipe Bedding	tons	Pipe Bedding (Tons) - The cost of bedding material (sand, sawdust, gravel free soil, lime, fine gravel, etc) placed around buried pipeline to prevent rock damage to the pipe delivered and placed.
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.
309	Side Inlet Drainage Structure elbow, 30in.	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.
310	Side Inlet Drainage Structure elbow, 36in.	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.

311	Side Inlet Drainage Structure elbow, 42in.	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.
312	Side Inlet Drainage Structure elbow, 48in.	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
316	Invasive Species Eradication	ac	Invasive Species Eradication (ac)- Is the average cost for chemicals and labor to eradicate Invasive Species using a selective herbicide during active growth period. This component can be applied by grid, spot or entire field treatment. Cost share available only on ACTUAL acres sprayed. (for example if grid or spot spraying only pay for the % of infestation, if spraying whole field pay for all acres)
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 be 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 be 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	ac	Site Prep Non-cropland Medium - Mechanical(ac) - Includes

	<b>- Mechanical</b>		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 / Woody Edge / Forest Openings- Light	ac	<p>Woody cover control / Woody Edge / Forest Openings –Light (ac) – Includes the cost of all machinery, chemicals and labor required to remove woody cover for Savanna Restoration, Prairie Restoration, Woody Edge Development, or a maximum 3 acre Permanent Forest Opening per each 40 acres of contiguous forest cover. Control is light when the existing field is less than 60% for savanna restoration, less than 40% for prairie restoration, or stand is less than 50% stocked for forest openings. Use this component for woody edge development when chainsaws/ herbicides are used.</p>
336	Woody Cover Control / Woody Edge/Forest Openings–Medium	ac	<p>Woody cover control/Woody Edge/Forest Openings –Medium (ac) – Includes the cost of all machinery and labor required to remove woody cover for Savanna Restoration, Prairie Restoration, or a maximum 3 acre Permanent Forest Opening per each 40 acres of contiguous forest cover. Control is medium when the existing field is between 60% and 80% for savanna restoration, between 40% and 60% for prairie restoration, or stand is between 50% and 80% stocked for forest openings.</p>
337	Woody Cover Control / Woody Edge / Forest Openings- Heavy	ac	<p>Woody cover control / Woody Edge / Forest Openings–Heavy (ac) – Includes the cost of all machinery and labor required to remove woody cover for Savanna Restoration, Prairie Restoration, Woody Edge Development, or a maximum 3 acre Permanent Forest Opening per each 40 acres of contiguous forest cover. Control is heavy when the existing field is greater than 80% for savanna restoration, greater than 60% for prairie restoration, or stand is greater than 80% stocked for forest openings. Use this component for woody edge development when machinery is required.</p>

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.
339	Woody Cover Control – Individual Tree Removal	tree	Woody cover control –Individual tree removal (tree) – Includes the cost of manually removing individual trees from areas that are inaccessible to mechanical removal methods (such as “clippers and feller-stackers”) in drainage ways and fence lines for Savanna Restoration and Prairie Restoration.
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

### 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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.

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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
347	Crownvetch	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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.

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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
354	Smooth Bromegrass	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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.

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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
359	Western Wheatgrass	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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
367	Prairie Cordgrass ( <i>Spartina pectinata</i> ) 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. The companion crop seed is in bulk pounds.
368	Prairie Cordgrass ( <i>Spartina pectinata</i> ) 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. The companion crop seed is in bulk pounds.
369	Prairie Cordgrass ( <i>Spartina pectinata</i> ) 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. The companion crop seed is in bulk pounds.
370	Prairie Drop 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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
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. The companion crop seed is in bulk pounds.
375	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. The companion crop seed is in bulk pounds.
376	Legumes - Seed	lb	Legumes - Seed (lb) - The cost of legumes PLS.
377	CSG - Cool Season Grasses - Seed	lb	Cool Season Grasses - Seed (lb) - The cost of cool season grass PLS.
378	WSG - Warm Season Grasses - Seed	lb	Warm Season Grasses - Seed (lb) - The cost of warm season grass PLS.
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.
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.
397	FORBS - Restoration of Declining Habitats - Seed (643)	lb	FORBS - Restoration of Declining Habitats - Seed (643) – local genotype/Mo Native/Ecotype Zone. The cost of 1# PLS of forbs 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 – Conservation Cover Wildlife Diversity Mix	lb	FORBS – Conservation Cover Wildlife Diversity Mix 10 species - Seed (not eligible for 643) The cost of 1# PLS of any forbs mix that can be obtained for plants listed on species lists in 643 and has no single species exceeding 15% of the mix and no more than 15% annuals/biennials combined. Species selected will be adapted to soil and site conditions.
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	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	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.
805	Split Beard 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. The companion crop seed is in bulk pounds.
807	Split Beard Seed for WRP Sand Prairie Restorations	lb	Split Beard Seed for WRP Sand Prairie Restorations (lb) - Includes the cost of one pound of pure live seed, based on a current seed analysis in compliance with the Missouri Seed Law. The companion crop seed is in bulk pounds. This component is approved for Sand Prairie Restorations on WRP tracts located in Dunklin, Pemiscot, New Madrid, Mississippi, Scott, Stoddard, Bollinger, Butler and Ripley Counties. NEW COMPONENT AND DEFINITION ADDED 8/2006.

**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 - Shortleaf Pine	tree	Conifers (tree) - Includes the cost of the bare root conifer seedlings per species as specified from a state nursery.
426	Conifers - E Red Cedar	tree	Conifers (tree) - Includes the cost of the bare root conifer seedlings per species as specified from a state nursery.
427	Conifers - Austrian Pine	tree	Conifers (tree) - Includes the cost of the bare root conifer seedlings per species as specified from a state nursery.
428	Conifers - Jack Pine	tree	Conifers (tree) - Includes the cost of the bare root conifer seedlings per species as specified from a state nursery.
429	Conifers - E White Pine	tree	Conifers (tree) - Includes the cost of the bare root conifer seedlings per species as specified from a state nursery.

430	Conifers - Red Pine	tree	Conifers (tree) - Includes the cost of the bare root conifer seedlings per species as specified from a state nursery.
431	Conifers - Norway Spruce	tree	Conifers (tree) - Includes the cost of the bare root conifer seedlings per species as specified 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 - Conifer	tree	Hand Planting - Conifer (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.
440	Hand Planting - Hardwoods/shrubs	ea	Hand Planting - Hardwoods/shrubs (ea) The cost of labor to walk from point to point to place woody trees in the ground.
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.
448	Tree Shelters	ea	Tree Shelters (Ineligible for CRP) (ea) - Includes the cost of tubing used to protect young trees, commonly called tree shelters.
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.
452	Woody Root Pruning	100 ft	Woody Root Pruning (100 ft) - Includes the cost of all machinery and labor required to root prune 100 feet of fencerows/hedgerows.
808	Crop Tree Release for Forest Stand Improvement	ea	Crop Tree Release for Forest Stand Improvement (ea) - Includes cost of eliminating/killing individual trees adjacent to a crop tree. Limit: up to 50 crop trees per acre. NEW COMPONENT AND DEFINITION ADDED 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. Does not include footings use concrete structural and treated lumber for footings. Use Waste Storage Facility (Compost Facility) or (Stacking Shed) components for new standard design mortality composters or pre-engineered structures.
460	Treated Lumber	bd ft	Treated Lumber (bd ft) - The cost of treated lumber per board foot.
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	Waste storage facility - composting facility	cu ft	Waste Storage Facility - Composting Facility (cu ft) - The cost of a composting facility that will be used for the biological stabilization of waste organic material. The unit is cubic feet of volume that the facility will hold. This component is for the standard composter with concrete floor, concrete walls and a roof. If this doesn't describe your composter use individual components. Example: concrete structural, roofing, treated lumber etc.
482	Waste storage facility - stacking shed	sq ft	Waste storage facility - Stacking Shed (sq ft) - The cost of a stacking shed that will be used to store solid livestock waste. Unit is square feet of the floor and includes the roof.
483	Waste storage facility - stacking shed/compost facility combo	sq ft	Waste storage facility - stacking shed/compost facility combo (sq ft) - The cost of a stacking shed that also contains a compost facility. The unit is square feet of the stacking shed/compost facility floor.
809	Agrichemical Mixing Facility	sq ft	Agrichemical Mixing Facility (sq ft) - The cost of all material, appurtenances, and labor for the installation of a concrete agrichemical mixing pad with rinsate tank according to NRCS plans. COMPONENT AND DEFINITION ADDED 8/2006.
810	Waste Facility Cover	sq ft	Waste Facility Cover (sq ft) - The cost of all material and labor to install a cover on a waste storage facility. COMPONENT AND DEFINITION ADDED 8/2006.
825	Manure Application Equipment,	gal	Manure Application Equipment, Tank Wagon (gal) - The

	<b>Tank Wagon</b>		<b>volume is the manufacturer's rates volume of the tank wagon. The eligible cost is for the tank wagon, mounted pump, all options and accessories. Does not include subsurface injection attachment (shanks, knives, hose, distributor, etc.) NEW COMPONENT AND DEFINITION ADDED 8/2006</b>
<b>826</b>	<b>Manure Application Equipment, Subsurface Injection Attachment or Toolbar</b>	<b>ea</b>	<b>Manure Application Equipment, Subsurface Injection Attachment or Toolbar (ea) - The cost of the complete injection assembly. The injection assembly can be with a tank wagon or used with a drag hose system. The cost does not include a drag hose. NEW COMPONENT AND DEFINITION ADDED 8/2006</b>
<b>827</b>	<b>Manure Application Equipment, Drag Hose</b>	<b>ft</b>	<b>Manure Application Equipment, Drag Hose (ft) - The cost of a complete section of hose that includes fitting for a subsurface injector. The typical section of hose is 660 feet long. NEW COMPONENT AND DEFINITION ADDED 8/2006</b>
<b>828</b>	<b>Manure Application Equipment, Hose Reel</b>	<b>ea</b>	<b>Manure Application Equipment, Hose Reel (ea) - The cost of manufactured equipment for the transportation and storage of a manure application hose. NEW COMPONENT AND DEFINITION ADDED 8/2006</b>
<b>829</b>	<b>Manure Application Equipment, Traveling Gun and Hose Reel</b>	<b>ea</b>	<b>Manure Application Equipment, Traveling Gun and Hose Reel (ea) - The cost of manufactured equipment for the land application of liquid manure using impact spray gun. The hose reel will retract and transport the hose and gun assembly. Cost includes all accessories for a complete functioning unit. NEW COMPONENT AND DEFINITION ADDED 8/2006</b>
<b>830</b>	<b>Manure Application Equipment, Box Spreader</b>	<b>cu ft</b>	<b>Manure Application Equipment, Box Spreader (cu ft) - The volume is the struck level volume of the box spreader. The</b>

			eligible cost is for the box spreader with all options and accessories. NEW COMPONENT AND DEFINITION ADDED 8/2006
834	AU CNMP (New Plan or expansion >50%) Beef Cattle <100	Number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
835	AU CNMP (New Plan or expansion >50%) Beef Cattle 100 to 500	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
836	AU CNMP (New Plan or expansion >50%) Beef Cattle > 500	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
837	AU CNMP (existing plan revision and expansions less than 50%) Beef Cattle <100	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
838	AU CNMP (existing plan revision and expansions less than 50%) Beef Cattle 100 to 500	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
839	AU CNMP (existing plan revision and expansions less than 50%) Beef Cattle > 500	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
840	AU CNMP (New Plan or	number	Animal Unit CNMP - The cost to develop a CNMP for the

	expansion >50%) Dairy Cattle <100		planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
841	AU CNMP (New Plan or expansion >50%) Dairy Cattle 100 to 200	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
842	AU CNMP (New Plan or expansion >50%) Dairy Cattle >200	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
843	AU CNMP (existing plan revision and expansions less than 50%) Dairy Cattle <100	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
844	AU CNMP (existing plan revision and expansions less than 50%) Dairy Cattle 100 to 200	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
845	AU CNMP (existing plan revision and expansions less than 50%) Dairy Cattle >200	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
846	AU CNMP (New Plan or expansion >50%) Swine <2,000	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
847	AU CNMP (New Plan or	number	Animal Unit CNMP - The cost to develop a CNMP for the

	expansion >50%) Swine 2,000 to 3,000		planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
848	AU CNMP (New Plan or expansion >50%) Swine >3,000	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
849	AU CNMP (existing plan revision and expansions less than 50%) Swine <2,000	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
850	AU CNMP (existing plan revision and expansions less than 50%) Swine 2,000 to 3,000	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
851	AU CNMP (existing plan revision and expansions less than 50%) Swine >3,000	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
852	AU CNMP (New Plan or expansion >50%) Poultry <=100,000	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
853	AU CNMP (New Plan or expansion >50%) Poultry >100,000	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
854	AU CNMP (existing plan revision	number	Animal Unit CNMP - The cost to develop a CNMP for the

	and expansions less than 50%) Poultry <=100,000		planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
855	AU CNMP (existing plan revision and expansions less than 50%) Poultry >100,000	number	Animal Unit CNMP - The cost to develop a CNMP for the planning activities for the manure and waste handling components of the system. COMPONENT AND DEFINITION ADDED 4/2007
856	Acre CNMP (New Plan or expansion >50%) Beef Cattle <100	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
857	Acre CNMP (New Plan or expansion >50%) Beef Cattle 100 to 500	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
858	Acre CNMP (New Plan or expansion >50%) Beef Cattle >500	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
859	Acre CNMP (existing plan revision and expansions less than 50%) Beef Cattle <100	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
860	Acre CNMP (existing plan revision and expansions less than 50%) Beef Cattle 100 to 500	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
861	Acre CNMP (existing plan	number	Acre CNMP - The cost to develop a CNMP for the planning

	revision and expansions less than 50%) Beef Cattle >500		activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
862	Acre CNMP (New Plan or expansion >50%) Dairy Cattle <100	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
863	Acre CNMP (New Plan or expansion >50%) Dairy Cattle 100 to 200	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
864	Acre CNMP (New Plan or expansion >50%) Dairy Cattle >200	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
865	Acre CNMP (existing plan revision and expansions less than 50%) Dairy Cattle <100	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
866	Acre CNMP (existing plan revision and expansions less than 50%) Dairy Cattle 100 to 200	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
867	Acre CNMP (existing plan revision and expansions less than 50%) Dairy Cattle >200	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
868	Acre CNMP (New Plan or	number	Acre CNMP - The cost to develop a CNMP for the planning

	expansion >50%) Swine <2,000		activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
869	Acre CNMP (New Plan or expansion >50%) Swine 2,000 to 3,000	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
870	Acre CNMP (New Plan or expansion >50%) Swine >3,000	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
871	Acre CNMP (existing plan revision and expansions less than 50%) Swine <2,000	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
872	Acre CNMP (existing plan revision and expansions less than 50%) Swine 2,000 to 3,000	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
873	Acre CNMP (existing plan revision and expansions less than 50%) Swine >3,000	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
874	Acre CNMP (New Plan or expansion >50%) Poultry <=100,000	number	Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007
875	Acre CNMP (New Plan or	number	Acre CNMP - The cost to develop a CNMP for the planning

	<b>expansion &gt;50%) Poultry &gt;100,000</b>		<b>activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007</b>
<b>876</b>	<b>Acre CNMP (existing plan revision and expansions less than 50%) Poultry &lt;=100,000</b>	<b>number</b>	<b>Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007</b>
<b>877</b>	<b>Acre CNMP (existing plan revision and expansions less than 50%) Poultry &gt;100,000</b>	<b>number</b>	<b>Acre CNMP - The cost to develop a CNMP for the planning activities for the land treatment practices and nutrient management aspects of the system. COMPONENT AND DEFINITION ADDED 4/2007</b>
<b>878</b>	<b>Acre CNMP - Export (New Plan or expansion &gt;50%) Beef Cattle &lt;100</b>	<b>number</b>	<b>Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. COMPONENT AND DEFINITION ADDED 4/2007</b>
<b>879</b>	<b>Acre CNMP - Export (New Plan or expansion &gt;50%) Beef Cattle 100 to 500</b>	<b>number</b>	<b>Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. COMPONENT AND DEFINITION ADDED 4/2007</b>
<b>880</b>	<b>Acre CNMP - Export (New Plan or expansion &gt;50%) Beef Cattle &gt;500</b>	<b>number</b>	<b>Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including</b>

			mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. <b>COMPONENT AND DEFINITION ADDED 4/2007</b>
881	Acre CNMP - Export (existing plan revision and expansions less than 50%) Beef Cattle <100	number	Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. <b>COMPONENT AND DEFINITION ADDED 4/2007</b>
882	Acre CNMP - Export (existing plan revision and expansions less than 50%) Beef Cattle 100 to 500	number	Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. <b>COMPONENT AND DEFINITION ADDED 4/2007</b>
883	Acre CNMP - Export (existing plan revision and expansions less than 50%) Beef Cattle >500	number	Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. <b>COMPONENT AND DEFINITION ADDED 4/2007</b>
884	Acre CNMP - Export (New Plan or expansion >50%) Dairy Cattle <100	number	Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic

			material that is transferred to another owner with documentation in written record of transfer. <b>COMPONENT AND DEFINITION ADDED 4/2007</b>
885	Acre CNMP - Export (New Plan or expansion >50%) Dairy Cattle 100 to 200	number	Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. <b>COMPONENT AND DEFINITION ADDED 4/2007</b>
886	Acre CNMP - Export (New Plan or expansion >50%) Dairy Cattle >200	number	Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. <b>COMPONENT AND DEFINITION ADDED 4/2007</b>
887	Acre CNMP - Export (existing plan revision and expansions less than 50%) Dairy Cattle <100	number	Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. <b>COMPONENT AND DEFINITION ADDED 4/2007</b>
888	Acre CNMP - Export (existing plan revision and expansions less than 50%) Dairy Cattle 100 to 200	number	Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with

			documentation in written record of transfer. <b>COMPONENT AND DEFINITION ADDED 4/2007</b>
889	Acre CNMP - Export (existing plan revision and expansions less than 50%) Dairy Cattle >200	number	Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. <b>COMPONENT AND DEFINITION ADDED 4/2007</b>
890	Acre CNMP - Export (New Plan or expansion >50%) Swine <2,000	number	Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. <b>COMPONENT AND DEFINITION ADDED 4/2007</b>
891	Acre CNMP - Export (New Plan or expansion >50%) Swine 2,000 to 3,000	number	Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. <b>COMPONENT AND DEFINITION ADDED 4/2007</b>
892	Acre CNMP - Export (New Plan or expansion >50%) Swine >3,000	number	Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. <b>COMPONENT</b>

			<b>AND DEFINITION ADDED 4/2007</b>
893	<b>Acre CNMP - Export (existing plan revision and expansions less than 50%) Swine &lt;2,000</b>	<b>number</b>	<b>Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. COMPONENT AND DEFINITION ADDED 4/2007</b>
894	<b>Acre CNMP - Export (existing plan revision and expansions less than 50%) Swine 2,000 to 3,000</b>	<b>number</b>	<b>Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. COMPONENT AND DEFINITION ADDED 4/2007</b>
895	<b>Acre CNMP - Export (existing plan revision and expansions less than 50%) Swine &gt;3,000</b>	<b>number</b>	<b>Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. COMPONENT AND DEFINITION ADDED 4/2007</b>
896	<b>Acre CNMP - Export (New Plan or expansion &gt;50%) Poultry &lt;=100,000</b>	<b>number</b>	<b>Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. COMPONENT AND DEFINITION ADDED 4/2007</b>

897	Acre CNMP - Export (New Plan or expansion >50%) Poultry >100,000	number	Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. COMPONENT AND DEFINITION ADDED 4/2007
898	Acre CNMP - Export (existing plan revision and expansions less than 50%) Poultry <=100,000	number	Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. COMPONENT AND DEFINITION ADDED 4/2007
899	Acre CNMP - Export (existing plan revision and expansions less than 50%) Poultry >100,000	number	Acre CNMP Export - The cost to develop a CNMP for the planning activities for a livestock operation that exports 50% or more of the manure or organic products (including mortalities). An export is defined as manure or organic material that is transferred to another owner with documentation in written record of transfer. COMPONENT AND DEFINITION ADDED 4/2007

### 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.
491	Nose pump	ea	Nose Pump (ea) - The cost of the pump, foot valve and labor and materials to install. This is a pump that is activated when cattle push on lever with nose while drinking. Is used for low head, short distance pumping.
492	Ram Pump	ea	Ram Pump (ea) - The cost of the pump and all materials and labor required to install one ram pump.

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	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.
499	Tank - Freeze Proof concrete (2)	gal	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.
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.
821	Spring Collection Pipe (concrete) 60in. 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.
822	Spring Collection Pipe (concrete) 72in. 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.
823	Spring Collection Pipe Lid 60in.	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.
824	Spring Collection Pipe Lid 72in.	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.

Wells

Code	Component	Units	Definiton
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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.
524	Water Well Casing (shallow)	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.
525	Water Well Drilling (shallow)	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.
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	ea	Inline Water control structures (ea) – The cost of all materials,

	12" dia (or 14" weir) x 2' ht		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.
586	Inline Water Control Structure 12" dia (or 14" weir) 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.
587	Inline Water Control Structure 12" dia (or 14" 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.
588	Inline Water Control Structure 12" dia (or 14" 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.
589	Inline Water Control Structure 12" dia (or 14" 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.
590	Inline Water Control Structure 12" dia (or 14" 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.
591	Inline Water Control Structure 12" dia (or 14" weir) x 11' 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.
592	Inline Water Control Structure 12" dia (or 14" weir) x 12' 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.
593	Inline Water Control Structure 12" dia (or 14" weir) x 13' 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.
594	Inline Water Control Structure 12" dia (or 14" weir) x 14' 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.
595	Inline Water Control Structure 15" dia (or 18" 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.
596	Inline Water Control Structure 15" dia (or 18" 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.
597	Inline Water Control Structure 15" dia (or 18" 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.
598	Inline Water Control Structure 15" dia (or 18" 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.

599	Inline Water Control Structure 15" dia (or 18" weir) 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.
600	Inline Water Control Structure 15" dia (or 18" 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.
601	Inline Water Control Structure 15" dia (or 18" 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.
602	Inline Water Control Structure 15" dia (or 18" 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.
603	Inline Water Control Structure 15" dia (or 18" 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.
604	Inline Water Control Structure 15" dia (or 18" weir) x 11' 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.
605	Inline Water Control Structure 15" dia (or 18" weir) x 12' 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.
606	Inline Water Control Structure 15" dia (or 18" weir) x 13' 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.
607	Inline Water Control Structure 15" dia (or 18" weir) x 14' 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.
608	Inline Water Control Structure 18" dia (or 22" 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.
609	Inline Water Control Structure 18" dia (or 22" 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.
610	Inline Water Control Structure	ea	Inline Water control structures (ea) – The cost of all materials,

	18" dia (or 22" weir) x 4' ht		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.
611	Inline Water Control Structure 18" dia (or 22" 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.
612	Inline Water Control Structure 18" dia (or 22" weir) 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.
613	Inline Water Control Structure 18" dia (or 22" 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.
614	Inline Water Control Structure 18" dia (or 22" 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.
615	Inline Water Control Structure 18" dia (or 22" 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.
616	Inline Water Control Structure 18" dia (or 22" 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.
617	Inline Water Control Structure 18" dia (or 22" weir) x 11' 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.
618	Inline Water Control Structure 18" dia (or 22" weir) x 12' 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.
619	Inline Water Control Structure 24" dia (or 29" 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.
620	Inline Water Control Structure 24" dia (or 29" 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.
621	Inline Water Control Structure 24" dia (or 29" 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.
622	Inline Water Control Structure 24" dia (or 29" 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.
623	Inline Water Control Structure 24" dia (or 29" weir) 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.
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	ea	Combination Slide & Turn-out Flap Gate (ea) -The cost of all

	<b>Flap Gate 10in.</b>		<b>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.</b>
<b>636</b>	<b>Combination Slide &amp; Turn-out Flap Gate 12in.</b>	<b>ea</b>	<b>Combination Slide &amp; 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.</b>
<b>637</b>	<b>Combination Slide &amp; Turn-out Flap Gate 15in.</b>	<b>ea</b>	<b>Combination Slide &amp; 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.</b>
<b>638</b>	<b>Combination Slide &amp; Turn-out Flap Gate 18in.</b>	<b>ea</b>	<b>Combination Slide &amp; 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.</b>
<b>639</b>	<b>Combination Slide &amp; Turn-out Flap Gate 24in.</b>	<b>ea</b>	<b>Combination Slide &amp; 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.</b>
<b>640</b>	<b>Combination Slide &amp; Turn-out Flap Gate 30in.</b>	<b>ea</b>	<b>Combination Slide &amp; 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.</b>
<b>641</b>	<b>Combination Slide &amp; Turn-out Flap Gate 36in.</b>	<b>ea</b>	<b>Combination Slide &amp; 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.</b>
<b>642</b>	<b>Slide Gate 10in.</b>	<b>ea</b>	<b>Slide Gate (ea) - The cost of a slide type gate used for water</b>

			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	<b>Screw/Sluice/Canal Gate (seating and unseating head pressure) 18"</b>	ea	<b>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 &amp; handling as well as installation.</b>
658	<b>Screw/Sluice/Canal Gate (seating and unseating head pressure) 24"</b>	ea	<b>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 &amp; handling as well as installation.</b>
659	<b>Drop Inlet PVC Elbow 4in.</b>	ea	<b>Drop Inlet PVC Elbows (ea) - The cost per diameter inch for PVC elbows used in drop inlets. Base price on SDR 35 material.</b>
660	<b>Drop Inlet PVC Elbow 6in.</b>	ea	<b>Drop Inlet PVC Elbows (ea) - The cost per diameter inch for PVC elbows used in drop inlets. Base price on SDR 35 material.</b>
661	<b>Drop Inlet PVC Elbow 8in.</b>	ea	<b>Drop Inlet PVC Elbows (ea) - The cost per diameter inch for PVC elbows used in drop inlets. Base price on SDR 35 material.</b>
662	<b>Drop Inlet PVC Elbow 10in.</b>	ea	<b>Drop Inlet PVC Elbows (ea) - The cost per diameter inch for</b>

			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. <b>NEW COMPONENT AND DEFINITION ADDED 8/2006.</b>
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. <b>NEW COMPONENT AND DEFINITION ADDED 8/2006.</b>
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. <b>NEW COMPONENT AND DEFINITION ADDED 8/2006.</b>
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. <b>NEW COMPONENT AND DEFINITION ADDED 8/2006.</b>
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. <b>NEW COMPONENT AND DEFINITION ADDED 8/2006.</b>

819	Flapgate Wier Board, 4' wide	ea	Flapgate Weir 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 Weir 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.
911	Laser Control Lateral Line Installation	ft	Laser Control Lateral Line (ft) - cost per foot of installation of 4, 6, or 8" lateral line with a laser controlled tile plow for drainage or subsurface irrigation. NEW COMPONENT AND DEFINITION ADDED 5/29/08.

### 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.

681	Heavy Use Area Protection	ea	Heavy Use Area Protection (ea) - This is the single component needed for district cost share. NRCS may use this or may use the separate components required to complete the practice.
682	Nesting Structures for Barn Owls	ea	Nesting structures for barn owls (ea) – The cost of materials and labor required to build and place a nesting structure for barn owls.
683	Nesting Structures for other species	ea	Nesting structures for other species (ea) – The cost of materials and labor required to build and place a nesting structure for birds, bats, etc.
684	Outlet Support	ea	Outlet Support (ea) - The cost of all materials and labor for a steel type outlet support.
685	Permanent Firebreak	100 ft	Permanent Firebreak (100 ft) - The cost of equipment and labor to construct a firebreak as designed in the Prescribed Burning Management Plan. The firebreak can be prepared with normal farm type machinery, a fire plow, small dozer or similar type equipment.
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.
688	Soil Mechanics Test	ea	Soil Mechanics Test (ea) - The cost of a soil mechanics test. The test is done prior to building a Waste Storage Facility or

			Waste Treatment Lagoon . The test will include all the following ASTM methods: D 422 -Method for particle size analysis; D 698 - Tests methods for Moisture - Density relations of soil; D 1140 - Test Method for amount of material in soils finer than 200 seive; D 4318 - Test Method for liquid limit, plastic limit, and plasticity index of soils; D 5084 - Test method for measurement of hydraulic conductivity of saturated pourous matereials.
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.
691	Small Equipment Mobilization Fee	ea	Small Equipment Mobilization Fee (ea) - Is a one time fee charged by contractors to transport their equipment to a construction site. (drills, disks, mulchers). For use in WRP only when cost is incurred.
692	Medium Equipment Mobilization Fee	ea	Medium Equipment Mobilization Fee (ea) - Is a one time fee charged by contractors to transport their equipment to a construction site. (i.e. Back hoe, small dozer). For use in WRP only when cost is incurred.
693	Heavy Equipment Mobilization Fee	ea	Heavy Equipment Mobilization Fee (ea) - Is a one time fee charged by contractors to transport their equipment to a construction site. (i.e. dozer, track-hoe). For use in WRP only when cost is incurred.
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.

## Emergency Assistance

Code	Component	Units	Definiton
695	Dozer	hr	Emergency Conservation Program (ECP) Components (hr) - These components are to be used in ECP only. If an item that you need for ECP is not listed here it should be listed in one of the above sections.
696	Labor/Personal	hr	Emergency Conservation Program (ECP) Components (hr) - These components are to be used in ECP only. If an item that you need for ECP is not listed here it should be listed in one of the above sections.
697	Labor/Hired	hr	Emergency Conservation Program (ECP) Components (hr) - These components are to be used in ECP only. If an item that you need for ECP is not listed here it should be listed in one of the above sections.
698	Chain Saw	hr	Emergency Conservation Program (ECP) Components (hr) - These components are to be used in ECP only. If an item that you need for ECP is not listed here it should be listed in one of the above sections.
699	Tractor with Loader up to 100 HP	hr	Emergency Conservation Program (ECP) Components (hr) - These components are to be used in ECP only. If an item that you need for ECP is not listed here it should be listed in one of the above sections.
700	Tractor with Loader greater than 100 HP	hr	Emergency Conservation Program (ECP) Components (hr) - These components are to be used in ECP only. If an item that you need for ECP is not listed here it should be listed in one of the above sections.

<b>701</b>	<b>Skid Loader</b>	<b>hr</b>	<b>Emergency Conservation Program (ECP) Components (hr) - These components are to be used in ECP only. If an item that you need for ECP is not listed here it should be listed in one of the above sections.</b>
<b>702</b>	<b>Track Hoe</b>	<b>hr</b>	<b>Emergency Conservation Program (ECP) Components (hr) - These components are to be used in ECP only. If an item that you need for ECP is not listed here it should be listed in one of the above sections.</b>