

**Traverse City Service Center  
Grand Traverse and Leelanau Counties  
Component Cost Data, June 2003**

<u>Conservation Practice Component</u>	<b>Unit</b>	<b>Grand Traverse Leelanau</b>
Aerators for commercial fish ponds	no.	N/A
Aggregate, Crushed Limestone, 9-inch thick, with Class IV Woven Geotextile, Installed (Heavy Use Area)	cu. yd.	\$22.00
Agrichemical Containment Facility, Building ONLY, for Pesticide Containment and/or Mix-Load, Installed (floor and liner/sealer extra)	sq. ft.	ask Eng.
Agrichemical Containment Facility, Complete	ea.	
Agrichemical Containment Facility, Complete Package	sq. ft.	
Agrichemical Containment Facility, Concrete Sealer, Installed	sq. ft.	\$1.50
Agrichemical Containment Facility, EPDM Liner, Installed	sq. ft.	\$1.50
Agrichemical Containment Facility, Exterior electric lines	ft.	
Agrichemical Containment Facility, Exterior water lines	ft.	
Agrichemical Containment Facility, HDPE Liner, Installed	sq. ft.	\$2.50
Agrichemical Containment Facility, Non-Reinforced Concrete Floor, Reinforced Concrete Walls, Installed (liner extra)	sq. ft.	\$11.00
Agrichemical Containment Facility, Non-Reinforced Concrete Floor, Timber Walls, Installed (liner extra)	sq. ft.	ask Eng. \$1,000.00
Agrichemical Containment Facility, Prefabricated Sump with Grate, Installed	ea.	
Agrichemical Containment Facility, Pump	ea.	
Agrichemical Containment Facility, Reinforced Concrete Floor, Concrete Block (2 ft. x 2 ft. x 4 ft. or x 6 ft.) Walls, Installed (liner extra)	sq. ft.	\$11.00
Agrichemical Containment Facility, Reinforced Concrete Floor, Reinforced Concrete Walls, Installed (liner or sealer extra)	sq. ft.	\$12.00
Agrichemical Containment Facility, Reinforced Concrete Floor, Timber Walls, Installed (liner extra)	sq. ft.	ask Eng.
Agrichemical Containment Facility, Safety station	ea.	
Agrichemical Containment Facility, Tank	gallon	
Agrichemical Containment Facility, with Earth Berm, Installed (liner extra)	sq. ft.	\$3.00
Agrichemical Containment, Permanent storage <100 sf	sq. ft.	
Agrichemical Containment, Permanent storage >150 sf	sq. ft.	
Agrichemical Containment, Permanent storage 100-150 sf	sq. ft.	
Aquatic Plant Establishment	ac.	\$350.00
Backflow prevention valve	ea.	
Backhoe - 1	hr.	
Backhoe - 2	hr.	
Backhoe, Hydraulic, Track Mounted, with Operator	hr.	\$105.00
Backhoe/Loader, Tractor-type, with Operator	hr.	\$65.00
Biodegradable net w/mulch insert	sq. ft.	
Bioengineering practices	lin. ft.	
Bioengineering, Brush Layering	sq. yd.	ask Eng.
Bioengineering, Brush Mattress	ea.	ask Eng.
Bioengineering, Cribwall, Live	ft.	ask Eng.
Bioengineering, Fachines, Live	ft.	ask Eng.

Bioengineering, In Stream Rock Structures (Barbs, etc.)	no.	ask Eng.
Bioengineering, Root Wads	no.	ask Eng.
Bioengineering, Staking, Live	no.	ask Eng.
Bioengineering, Tree Revetments	ea.	ask Eng.
Bioengineering, Vegetated Geogrid	sq. yd.	ask Eng.
Biological treatment - pest management	ac.	
Bituminous Pavement, 3-inch thick, Installed	sq. yd.	\$6.50
Building structure <500 sf	sq. ft.	
Chemical application for burndown	ac.	\$25.00
Chemical Weed Control	ac.	N/A
Clearing and grubbing heavy trees/shrubs	ac.	
Clearing and grubbing light trees/shrubs	ac.	
Clearing and grubbing medium trees/shrubs	ac.	
Concrete	cu. yd.	
Concrete Block Chute, with Geotextile, Installed	sq. ft.	ask Eng.
Concrete Blocks, 2 ft. x 2 ft. x 4 ft., Installed	ea.	\$100.00
Concrete Blocks, 2 ft. x 2 ft. x 6 ft., Installed	ea.	\$120.00
Concrete- duplicate	sq. ft.	
Concrete flatwork	cu. yd.	
Concrete formed	cu. yd.	
Concrete pushoff ramp	ea.	
Concrete without steel	cu. yd.	
Concrete, Non-Reinforced, 4-inch Thick over Compacted Sand, Flatwork, Installed	cu. yd.	\$180.00
Concrete, Non-Reinforced, 5-inch Thick over Compacted Sand, Flatwork, Installed	cu. yd.	\$180.00
Concrete, Non-Reinforced, Low Slump, 4-inch Thick, Flat or Slope, Installed	cu. yd.	\$210.00
Concrete, Non-Reinforced, Low Slump, 5-inch Thick, Flat or Slope, Installed	cu. yd.	\$210.00
Concrete, Reinforced, Cast In Place, Flat or Slope Installed	cu. yd.	\$275.00
Concrete, Reinforced, Cast In Place, Walls between 2 feet and 4 feet high, Installed	cu. yd.	\$275.00
Concrete, Reinforced, Cast In Place, Walls greater than 4 feet high, Installed	cu. yd.	\$300.00
Concrete, Reinforced, Cast In Place, Walls less than 2 feet high, Installed	cu. yd.	\$275.00
Conservation Crop Rotation	ac.	\$7.00
Contour Establishment	ac.	\$10.00
Corn cobs, sawdust or gravel, installed	ac.	N/A
Corridor Establishment - grassland planting	ac	
Corridor Establishment - tree and shrub planting	ac	
Creating wildlife cover diversity - snags, den trees, girdling or cutting trees to create large woody debris, etc. (includes selection, marking and all actions to alter the wooded area for habitat)	ac.	
Crop Scouting for Pests - Long Term Specialty Crop	ac.	\$35.00
Crop Scouting for Pests - Short Term Specialty Crop	ac.	\$20.00
Crushed Limestone	cu. yd.	
Cultural Grazing	ac.	\$15.00
Cultural Grazing (temporary fence)	ac.	\$15.00
Cultural Grazing (temporary water)	ft.	\$0.25

Deep Plowing	ac.	\$15.00
Deflectors for stream habitat improvement	ft.	\$40.00
Dewatering	hr.	ask Eng.
Directional drilling	ft.	
Disking	ac.	\$12.00
Diversion - Grassed	ft.	
diversion, Intake 6"	ea.	
diversion, Intake 4"	ea.	
Dozer	hr.	
Dozer, 105 HP, with Operator	hr.	\$90.00
Dozer, 200 HP, with Operator	hr.	\$170.00
Dozer, 75 HP, with Operator	hr.	\$80.00
Dry Hydrant, with Head, Cap, and Strainer, incl. Fittings, Installed	ea.	\$3,000.00
Dump Truck, 12 Cu.Yd., with Operator	hr.	\$65.00
Dump Truck, 6 Cu.Yd., with Operator	hr.	\$50.00
Earth fill Bare earth	cu. ft.	
Earth fill 4" topsoil	ac.	
Earthfill, Compacted, Off-site Material (3 mile haul)	cu. yd.	\$12.00
Earthfill, Compacted, On-site Material	cu. yd.	\$6.00
Earthwork	cu. yd.	
Excavation	cu. yd.	
Excavation mobilization fee	ea.	
Excavation, Common	cu. yd.	\$3.25
Excavation, Rock	cu. yd.	\$6.00
Excavation, Wet	cu. yd.	\$6.00
Excavator	hr.	
Fence Gate 16'	ea.	
Fencing-	ft.	
Fencing- around animal waste facilities	ft.	
Fencing Woven Wire 6' Hi-Tensile, Installed	ft.	
Fencing, 3 strand barbed wire	ft.	\$0.80
Fencing, 4 strand barbed wire, plus labor	ft.	
Fencing, Electric, Single Strand, Smooth Wire, Installed	ft.	\$1.05
Fencing, Smooth 5-Wire, Installed	ft.	\$0.90
Fencing, Woven Wire, Installed	ft.	\$1.50
Firebreak, Permanent Vegetative Seeding (grasses or forbes)	ac.	N/A
Fish - stocking	no.	N/A
Forest Site Preparation, Hand-Chemical (includes equipment and labor)	ac.	\$120.00
Forest Site Preparation, Machine-Chemical (includes equipment and labor)	ac.	\$250.00
Forest Site Preparation, Machine-Mechanical (includes equipment and labor)	ac.	\$100.00
Forest Trail and Walkway, Broad-based Dip, Water Bar, Opentop box culvert corrugated metal pipe with rip-rap outlet	no.	\$450.00
Geotextile fabric	sq. yd.	
Geotextile Reinforced Vegetated Chute, Installed (including Earthwork, Geotextile, Erosion Control Blanket, and Seeding with Fertilizer, etc.)	sq. ft.	\$3.00
Grading and shaping land	ac.	
Grading and Shaping, Diversion, Installed	lin. ft.	\$3.00
Grading and Shaping, Grassed Filter Strip Area (Not Channelized) [standard 780], Installed	lin. ft.	ask Eng.

Grading and Shaping, Grassed Channelized Filter Strip (up to 40 feet wide) [standard 780], Installed	lin. ft.	\$4.00
Grading and Shaping, Grassed Waterway, Installed	lin. ft.	\$3.00
Grain Food Plots	ac.	\$75.00
Grassed waterway w/o tile	ac.	
Gravel fill-Afton Stone	cu. yd.	
Gravel tile trench	ft.	
Gravel, 22A or 23 A (Road Gravel), Installed	cu. yd.	\$23.00
Gravel, Bank Run, Installed	cu. yd.	\$18.00
Gravel, Drain Fill, Installed	cu. yd.	\$28.00
Herbaceous cover cool season annual species, preparation, seed, fertilizer and planting	ac.	\$300.00
Herbaceous cover cool season, perennial preparation, seed, fertilizer and planting	ac.	\$300.00
Herbaceous cover warm season, annual, preparation, seed, fertilizer and planting	ac.	\$500.00
Herbaceous cover warm season, perennial, preparation, seed, fertilizer and planting	ac.	\$500.00
Herbaceous plants and hand planting	ea.	\$0.10
Herbaceous wind barrier, Annual cool season, site preparation, seed, fertilizer, planting	ac.	\$300.00
Herbaceous wind barrier, Annual warm season, site preparation, seed, fertilizer, planting	ac.	\$300.00
Herbaceous wind barrier, perennial cool season, site preparation, seed, fertilizer, planting	ac.	\$500.00
Herbaceous wind barrier, Perennial warm season, site preparation, seed, fertilizer, planting	ac.	\$500.00
Herbicides and application (hand)	ac.	\$50.00
Herbicides and application (machine)	ac.	\$40.00
Herbicides, includes application	ac.	\$30.00
Instream Woody Cover	sq. yd.	\$25.00
Irrigation System, Big Gun (traveler), Nozzles, Fittings, etc., Installed	ac.	\$700.00
Irrigation System, Center Pivot System, Nozzles, Fittings, etc., Installed	ac.	\$700.00
Irrigation System, Linear Move System, Nozzles, Fittings, etc., Installed	ac.	\$800.00
Irrigation System, Micro Tubing, Emitters, Nozzles, Fittings, etc., Installed	ac.	\$1,600.00
Irrigation System, Microirrigation (tape) , Emitters, Fittings, etc. Installed	ac.	\$1,500.00
Irrigation System, Side Roll, Nozzles, Fittings, etc., Installed	ac.	\$650.00
Irrigation System, Solid Set System, Nozzles, Fittings, etc., Installed	ac.	\$2,300.00
Layout of contour strips	ac.	\$5.00
Leaf Tissue test for small fruit and tree crops, soil ph test, sampling, calibration of application equipment, recordkeeping	ac.	\$20.00
Linear Channel Concrete for Fish Raceway	ft.	N/A
Linear Channel Earthen for Fish Raceway	ft.	N/A
Livestock watering	ea.	
Loader	hr.	
Lunker Structures	ft.	\$40.00
Manure reception tank	ea.	
Manure Test	no.	\$30.00
Mechanical Machine scalping (if not done during planting process)	ac.	\$45.00
Mechanical treatment - pest management	ac.	\$100.00

Metal Fabrication, Installed	no.	ask Eng.
Milk parlor wastewater pump station	ea.	
Mowing	ac.	\$20.00
Mulch, installed (includes labor)	sq. ft.	\$0.02
Mulch, installed (includes labor) by acre	ac.	
Native grass seeding includes fertilizer, seed, labor and equipment	ac.	\$500.00
Native prairie planting	ac.	\$500.00
Natural Regeneration/Direct Seeding	ac.	
Nesting Structures (platforms, boxes)	no.	\$100.00
No-till	ac.	
No-Till, spray, seed, fertilizer, planting and weed control	ac.	N/A
No-Till, spray, seed, fertilizer, planting and weed control - Alfalfa	ac.	
No-Till, spray, seed, fertilizer, planting and weed control - Corn	ac.	
Nutrient Management Field Crops	ac.	
Nutrient Management Specialty Crops	ac.	
Open Box Culverts	no.	\$300.00
Outlets- 6"	ft.	
Outlets- 8"	ft.	
Pasture and Hayland Planting - Introduced Species	ac.	
Pasture and Hayland Planting - Native Planting	ac.	
Pasture and Hayland planting, Heavy soil disturbance, seedbed preparation, seed, seeding and herbicides including application	ac.	\$150.00
Pasture and Hayland Planting, Light soil disturbance, seedbed preparation, seed, seeding and herbicides including application	ac.	\$140.00
Pasture and Hayland Planting, Medium soil disturbance, seedbed preparation, seed, seeding and herbicides including application	ac.	\$145.00
Paving	cu. yd.	
Pest Management, Scouting- Long Term	ac.	
Pest Management, Scouting, traps, baits, etc.	ac.	\$32.00
pest protection for trees shrubs 4' wide weed barrier	per 100 ft.	
pest protection for trees shrubs 6' wide weed barrier	per 100 ft.	
Pest protection for trees/shrubs, fabric weed barrier	no.	\$1.50
Pest protection for trees/shrubs, Organic Mulch	cu. yd.	\$9.00
Pest protection, tree protectors (tubes, plastic rodent protectors, plastic mesh, wire mesh) includes installation with wood or metal stakes	no.	\$5.00
Pest Protection, tree protectors 4'	ea.	
Pipe 4" plastic drain tile	ft.	
Pipe 6" plastic drain tile	ft.	
Pipe '8" Plastic drain tile	lin. ft.	
Pipe Arch, Aluminum, Installed	lin. ft.	ask Eng.
Pipe Arch, Reinforced Concrete, Installed	lin. ft.	ask Eng.
Pipe Trenching, (w/Backhoe)	lin. ft.	\$1.50
Pipe Trenching, (w/Trencher)	lin. ft.	\$1.00
Pipe, 4" polypipe	ft.	
Pipe, Corrugated Metal 12"	ft.	
Pipe, Corrugated Metal, 10-inch, Incl. Fittings, Installed	lin. ft.	\$6.50
Pipe, Corrugated Metal, 12-inch, Incl. Fittings, Installed	lin. ft.	\$8.00
Pipe, Corrugated Metal, 15-inch, Incl. Fittings, Installed	lin. ft.	\$9.50
Pipe, Corrugated Metal, 18-inch, Incl. Fittings, Installed	lin. ft.	\$12.00
Pipe, Corrugated Metal, 24-inch, Incl. Fittings, Installed	lin. ft.	\$16.50

Pipe, Corrugated Metal, 30-inch, Incl. Fittings, Installed	lin. ft.	\$25.00
Pipe, Corrugated Metal, 36-inch, Incl. Fittings, Installed	lin. ft.	\$30.00
Pipe, Corrugated Metal, 6-inch, Incl. Fittings, Installed	lin. ft.	\$5.00
Pipe, Corrugated Metal, 8-inch, Incl. Fittings, Installed	lin. ft.	\$5.50
Pipe, Corrugated Plastic (Dual Wall), 10-inch, Incl. Fittings, Installed	lin. ft.	\$5.50
Pipe, Corrugated Plastic (Dual Wall), 12-inch, Incl. Fittings, Installed	lin. ft.	\$6.50
Pipe, Corrugated Plastic (Dual Wall), 15-inch, Incl. Fittings, Installed	lin. ft.	\$8.50
Pipe, Corrugated Plastic (Dual Wall), 18-inch, Incl. Fittings, Installed	lin. ft.	\$12.00
Pipe, Corrugated Plastic (Dual Wall), 24-inch, Incl. Fittings, Installed	lin. ft.	\$17.50
Pipe, Corrugated Plastic (Dual Wall), 30-inch, Incl. Fittings, Installed	lin. ft.	\$25.00
Pipe, Corrugated Plastic (Dual Wall), 36-inch, Incl. Fittings, Installed	lin. ft.	\$33.50
Pipe, Corrugated Plastic (Dual Wall), 4-inch, Incl. Fittings, Installed	lin. ft.	\$3.00
Pipe, Corrugated Plastic (Dual Wall), 6-inch, Incl. Fittings, Installed	lin. ft.	\$4.00
Pipe, Corrugated Plastic (Dual Wall), 8-inch, Incl. Fittings, Installed	lin. ft.	\$5.00
Pipe, Corrugated Plastic 15"	ft.	
Pipe, Corrugated Plastic Tubing (Single Wall, Perforated or non-Perforated), 10-inch, Incl. Fittings, Installed	lin. ft.	\$7.00
Pipe, Corrugated Plastic Tubing (Single Wall, Perforated or non-Perforated), 12-inch, Incl. Fittings, Installed	lin. ft.	\$9.00
Pipe, Corrugated Plastic Tubing (Single Wall, Perforated or non-Perforated), 4-inch, Incl. Fittings, Installed	lin. ft.	\$3.00
Pipe, Corrugated Plastic Tubing (Single Wall, Perforated or non-Perforated), 6-inch, Incl. Fittings, Installed	lin. ft.	\$4.00
Pipe, Corrugated Plastic Tubing (Single Wall, Perforated or non-Perforated), 8-inch, Incl. Fittings, Installed	lin. ft.	\$5.00
Pipe, HDPE, 1 1/4 inch, with fittings, installed (water supply)	lin. ft.	
Pipe, HDPE, 1 inch, with fittings, installed (water supply)	lin. ft.	
Pipe, HDPE, 3/4 inch, with fittings, installed (water supply)	lin. ft.	
Pipe, Manhole, Reinforced Concrete, with grate or cover, Installed	ea.	ask Eng.
Pipe, PE, 1-1/2-inch, Incl. Fittings, Installed (water supply)	lin. ft.	\$0.70
Pipe, PE, 1-1/4-inch, Incl. Fittings, Installed (water supply)	lin. ft.	\$0.65
Pipe, PE, 1-inch, Incl. Fittings, Installed (water supply)	lin. ft.	\$0.80
Pipe, PE, 2-inch, Incl. Fittings, Installed (water supply)	lin. ft.	\$1.00
Pipe, PVC, SCH-40, 10-inch, Incl. Fittings, Installed	lin. ft.	\$10.70
Pipe, PVC, SCH-40, 4-inch, Incl. Fittings, Installed	lin. ft.	\$6.50
Pipe, PVC, SCH-40, 6-inch, Incl. Fittings, Installed	lin. ft.	\$7.00
Pipe, PVC, SCH-40, 8-inch, Incl. Fittings, Installed	lin. ft.	\$7.50
Pipe, Reinforced Concrete, 12-inch, Incl. Fittings, Installed	lin. ft.	\$18.65
Pipe, Reinforced Concrete, 18-inch, Incl. Fittings, Installed	lin. ft.	\$28.50
Pipe, Reinforced Concrete, 24-inch, Incl. Fittings, Installed	lin. ft.	\$40.00
Pipe, Reinforced Concrete, 30-inch, Incl. Fittings, Installed	lin. ft.	\$60.00
Pipe, Reinforced Concrete, 36-inch, Incl. Fittings, Installed	lin. ft.	\$78.00
Pipeline Mechanical Station, with Pressure Tank and Appurtenances, Installed (for Watering Facility)	no.	ask Eng.
Plastic drain tubing 4"	lin. ft.	
Plastic drain tubing 6"	lin. ft.	
Plastic drain tubing 8"	lin. ft.	
Pond Sealing and Lining, Bentonite-Soil Mixture, incl. Materials and Labor, Installed (at 3 lbs Bentonite per sq. ft.)	sq. ft.	\$1.40
cu. yd.		\$15.00

cu. yd.	\$6.00		
Pond Sealing and Lining, EPDM (45 mil), incl. Materials and Labor, Installed		sq. ft.	\$0.90
Pond Sealing and Lining, Geosynthetic Clay Liner, incl. Materials and Labor, Installed		sq. ft.	\$0.90
Pond Sealing and Lining, HDPE (40 mil), incl. Materials and Labor, Installed		sq. ft.	\$0.55
Pond Sealing and Lining, HDPE (60 mil), incl. Materials and Labor, Installed		sq. ft.	\$0.80
Pond Sealing and Lining, Soil Dispersant, incl. Materials and Labor, Installed		sq. ft.	\$1.35
POST PLANTING CHEMICAL WEED CONTROL UP TO THREE			
Prescribed Burning		acre	N/A
Pump Station, incl. Materials and Labor, Installed		ea.	ask Eng.
PVC pipe,sch.40,installed 4"		ft.	
Ram Pump, Livestock Water, Complete, Installed		ea.	\$1,500.00
Ripping for Deep Tillage		ac.	N/A
Riser, Corrugated Metal, 24-inch Dia., with 18-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed		ea.	\$1,060.00
Riser, Corrugated Metal, 24-inch Dia., with 18-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed		ea.	\$1,174.00
Riser, Corrugated Metal, 30-inch Dia., with 24-inch Dia.Stub, Antivortex and Trash Guard, 5-feet High, Installed		ea.	\$1,480.00
Riser, Corrugated Metal, 30-inch Dia., with 24-inch Dia.Stub, Antivortex and Trash Guard, 8-feet High, Installed		ea.	\$1,570.00
Riser, Corrugated Metal, 36-inch Dia., with 24-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed		ea.	\$2,000.00
Riser, Corrugated Metal, 36-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed		ea.	\$1,800.00
Riser, Corrugated Metal, 42-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed		ea.	\$2,200.00
Riser, Corrugated Metal, 42-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed		ea.	\$2,400.00
Riser, Corrugated Plastic 18"		ft.	
Riser, Corrugated Plastic, 24-inch Dia., with 18-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed		ea.	\$1,000.00
Riser, Corrugated Plastic, 24-inch Dia., with 18-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed		ea.	\$1,160.00
Riser, Corrugated Plastic, 30-inch Dia., with 24-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed		ea.	\$1,170.00
Riser, Corrugated Plastic, 30-inch Dia., with 24-inch Dia.Stub, Antivortex and Trash Guard, 8-feet High, Installed		ea.	\$1,370.00
Riser, Corrugated Plastic, 36-inch Dia., with 24-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed		ea.	\$2,075.00
Riser, Corrugated Plastic, 36-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed		ea.	\$1,860.00
Riser, Corrugated Plastic, 42-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed		ea.	\$2,400.00
Riser, Corrugated Plastic, 42-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed		ea.	\$2,750.00

Rock Riprap, D-50 = 12 inch, with Geotextile, Installed	cu. yd.	\$70.00
Rock Riprap, D-50 = 15 inch, with Geotextile, Installed	cu. yd.	\$70.00
Rock Riprap, D-50 = 18 inch, with Geotextile, Installed	cu. yd.	\$70.00
Rock Riprap, D-50 = 4 inch, with Geotextile, Installed	cu. yd.	\$60.00
Rock Riprap, D-50 = 6 inch, with Geotextile, Installed	cu. yd.	\$60.00
Rock Riprap, D-50 = 9 inch, with Geotextile, Installed	cu. yd.	\$60.00
Rodent Guard, 10-inch, Installed	ea.	\$25.00
Rodent Guard, 12-inch, Installed	ea.	\$30.00
Rodent Guard, 15-inch, Installed	ea.	\$40.00
Rodent Guard, 4-inch, Installed	ea.	\$12.00
Rodent Guard, 6-inch, Installed	ea.	\$15.00
Rodent Guard, 8-inch, Installed	ea.	\$20.00
Roof - compost or ag waste facility	sq. ft.	
Roof Gutters, with downspouts, Installed	lin. ft.	\$11.00
Roof, Hoop Structure, greater than 40 ft. span, Installed	sq. ft.	ask Eng.
Roof, Hoop Structure, up to 40 ft. span, Installed	sq. ft.	\$5.00
Roof, Truss Structure, greater than 40 ft. span, Installed	sq. ft.	ask Eng.
Roof, Truss Structure, up to 40 ft. span, Installed	sq.ft.	\$5.00
Row-Till for Deep Tillage	ac.	N/A
Salvaging and Spreading Topsoil	cu. yd.	\$4.00
Sand fill	cu. yd.	
Scalp with bulldozer	per 1000 ton	
Seed and mulch	ac.	
Seed with netting	ac.	
Seed, Mulch and Fertilizer (includes labor) forest site	ac.	N/A
Seedbed Preparation forest site	ac.	\$100.00
Seeding - Aerial	ac.	
Seeding Beachgrass	per 1000	
Seeding cover crop aerial	ac.	\$25.00
Seeding cover crop drilled or broadcast	ac.	\$21.00
Seeding, less than 1/2 acre, Hydroseed Drilled or Broadcast, with seedbed preparation, fertilizer and mulch, installed,	sq. ft.	
Seeding, Cool Season, Drill or Broadcast, with Seedbed Preparation, Fertilizer and Mulch, Installed	ac.	N/A
Seeding, Drill or Broadcast, with Seedbed Preparation, Fertilizer, Mulch and Netting, Installed	ac.	N/A
Seeding, Hydroseed, with Seedbed Preparation, Fertilizer and Mulch, Installed	ac.	N/A
Seeding, Native grass drill delivery fee	no.	\$50.00
Seeding, Native Grass Planting	ac.	
Seeding, Native Species Planting/Invasive Species Control	ac.	
seeding, Non-Native Planting	ac.	
Seeding, Warm Season, Drill or Broadcast, with Seedbed Preparation, Fertilizer and Mulch, Installed	ac.	N/A
Seeding, with Seedbed Preparation, Fertilizer, Mulch and Erosion Control Blanket, Installed	ac.	N/A
Sheet Piling, Installed	ton	ask Eng.
Silt Fence, Installed	lin. ft.	\$0.92
Site prep, Planting, Seed, Fertilizer	ac.	
Site preparation	ac.	

Site Preparation (Clearing and grubbing)	ac.	\$1,850.00
Site Preparation for fence (Clearing and grubbing)	hr.	\$100.00
Site preparation for stream habitat improvement	ac.	\$3,000.00
Sodding	ac.	N/A
Soil Test	no.	\$10.00
Soil test annually for vegetable, flower, ornamentals and shrubs, sampling, calibration of application equipment, recordkeeping	ac.	\$3.80
Soil test including pre side dress nitrogen test, composite sampling, manure testing, calibration of application equipment, recordkeeping; manure and fertilizer use	ac.	\$4.20
Soil test including pre side dress nitrogen test, grid sampling, manure testing, calibration of application equipment, recordkeeping; manure and fertilizer use	ac.	\$4.20
Soil test, composite sampling, calibration of application equipment, recordkeeping; fertilizer use only	ac.	\$3.27
Soil test, grid sampling, calibration of application equipment, recordkeeping; fertilizer use only	ac.	\$3.27
Spoil Spreading	cu. yd.	\$3.00
Spot or band spraying	ac.	N/A
Spring Development, Complete System (does not include Tank or Trough), Installed	ea.	ask Eng.
Straw or hay mulch, installed	ac.	\$800.00
Stream Crossing, with 1 foot thick Coarse Aggregate Ramp, Installed on mineral soil	sq. ft.	\$5.00
Strip layout	ac.	\$5.00
Structure Removal	no.	ask Eng.
Structures (boxes, brush piles, etc.)	no.	\$20.00
Subsoiling	ac.	N/A
Subsurface Drain Removal or Destruction (tile break)	no.	\$410.00
Surface Drain Filling (ditch plug)	no.	\$1,200.00
Surface Inlet, Perforated, incl., Fittings, Installed (for WASCObS and Terraces)	no.	\$200.00
Tank Raceway Concrete	gal.	N/A
Tank Raceway Fiberglass	gal.	N/A
Tank Raceway Metal	gal.	N/A
Tillage	ac.	\$50.00
Timber Fabrication, Treated, Installed	bd. ft.	ask Eng.
Timber harvesting	ac.	N/A
Tree Planting-Hand (includes scalping, equipment and labor)	no.	\$0.25
Tree Planting-Machine (includes scalping, equipment and labor)	no.	\$0.14
Tree Pruning - Trees 10 up to 18ft. (includes labor and equipment)	per tree	\$1.00
Tree Pruning - Trees 18 ft. up to 26 ft. (includes labor and equipment)	per tree	\$1.25
Tree Pruning - Trees up to 10 ft. (includes labor and equipment)	per tree	\$0.85
Tree Removal of invasive species	ac.	
Tree Targeting Sprayer Use	ac.	\$10.00
Tree Thinning (cutting or chemically killing trees or vines) including marking, Hardwood-Crop Tree Release (min. 20 sq. ft. b.a. removed) Poles (trees 5-11" DBH)	ac	

Tree Thinning (cutting or chemically killing trees or vines), including marking, Hardwood-Crop Tree Release (min. 20 sq. ft. b.a. removed) Saplings (trees under 5" DBH)	ac	
Tree Thinning (cutting or chemically killing trees or vines), including marking, Hardwood-Crop Tree Release (min. 20 sq. ft. b.a. removed) Saw timber size culls (trees over 11" DBH)	ac	
Tree/Shrubs - other conifer trees	no.	\$0.33
Conifers- pines & spruces	per 1000	
Trees/Shrubs (see Alley Cropping) Bare root or Containerized Plugs	no.	\$0.25
Trees/Shrubs-conifer bare root or containerized plugs 2-0 to 3-0 stock	no.	\$0.25
Trees/Shrubs-deciduous	no.	\$0.33
Trough or Tank Poly 100 gal	ea.	\$120.00
Trough or Tank Poly 200 gal	ea.	\$180.00
Trough or Tank Poly 400 gal	ea.	\$240.00
Trough or Tank, Galv., 100 gal., with Gravel Pad, Installed	ea.	\$500.00
Trough or Tank, Galv., 200 gal., with Gravel Pad, Installed	ea.	\$600.00
Trough or Tank, Galv., 400 gal., with Gravel Pad, Installed	ea.	\$700.00
Trough or Tank, Poly., 100 gal., with Gravel Pad, Installed	ea.	\$500.00
Trough or Tank, Poly., 200 gal., with Gravel Pad, Installed	ea.	\$600.00
Trough or Tank, Poly., 400 gal., with Gravel Pad, Installed	ea.	\$800.00
Trucking	hr.	
Trucking rip-rap	ton	
Vegetative barrier, layout, site preparation, plant material plugs, hand planting and weed control	ft.	N/A
Vegetative Control - Chemical	ac.	N/A
Vegetative Control - Manual	ac.	N/A
Vegetative Control - Mowing	ac.	N/A
Vegetative Establishment - Native prairie	ac.	N/A
Vegetative Establishment - Native shrub	no.	N/A
Vegetative Establishment - Native trees	no.	N/A
Vine Removal in forest	each	\$0.35
Waste Storage Facility or Compost Facility - 'Wood wall	ft.	
Waste Storage Facility, Above Ground Circular Metal Structure, Installed	ea.	ask Eng.
Waste Storage Facility, Below Ground Reception Pit, Reinforced Concrete, with Pump and Appurtenances, Installed	ea.	ask Eng.
Waste Storage Facility, Safety cable	ft.	
Water Control Structure, In-Line, 4-feet high, 10-inch pipe, Installed (pipe extra)	ea.	\$1,200.00
Water Control Structure, In-Line, 4-feet high, 12-inch pipe, Installed (pipe extra)	ea.	\$1,150.00
Water Control Structure, In-Line, 4-feet high, 18-inch pipe, Installed (pipe extra)	ea.	\$1,550.00
Water Control Structure, In-Line, 4-feet high, 24-inch pipe, Installed (pipe extra)	ea.	\$2,200.00
Water Control Structure, In-Line, 4-feet high, 6-inch pipe, Installed (pipe extra)	ea.	\$800.00
Water Control Structure, In-Line, 4-feet high, 8-inch pipe, Installed (pipe extra)	ea.	\$900.00
Watering facility	ea.	
Watering facility	ea.	

Waterline	ft.	
Waterway without tile	ac.	
Weed Control for trees - Herbicides and application (hand)	ac.	\$88.00
Weed Control for trees - Herbicides and application (machine)	ac.	\$60.00
Weed Control for trees - Mechanical machine scalping (if not done during planting)	ac.	\$45.00
Welding	ft.	
Well Decommissioning, Bedrock Well	ea.	\$1,500.00
Well Decommissioning, Dug Well	ea.	\$1,000.00
Well Decommissioning, Sand/Gravel Well	ea.	\$500.00
Well Pump, Deep Water, Installed	ea.	ask Eng.
Well Pump, Shallow Water, Installed	ea.	ask Eng.
Well, Drilled, 12-inch, Installed	lin. ft.	\$70.00
Well, Drilled, 5-inch, Installed	lin. ft.	25
Well, Drilled, 6-inch, Installed	lin. ft.	\$30.00
Wildflower Planting	ac.	\$500.00
Windbreaks (includes site preparation)	per tree	
Wood chips or bark, installed	ac.	N/A
Woody Plant Control	ac.	N/A
Zone Tillage or Para Plowing	ac.	N/A