

**Portage Service Center
Kalamazoo County
Component Cost Data, June 2003**

<u>Area Three Conservation Practice Component</u>	Unit	Cost per Unit
Aerators for commercial fish ponds	no.	\$700.00
Aggregate, Crushed Limestone, 9-inch thick, with Class IV Woven Geotextile, Installed (Heavy Use Area)	cu. yd.	\$34.00
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, Concrete Sealer, Installed	sq. ft.	\$1.50
Agrichemical Containment Facility, EPDM Liner, Installed	sq. ft.	\$1.80
Agrichemical Containment Facility, HDPE Liner, Installed	sq. ft.	\$1.50
Agrichemical Containment Facility, Non-Reinforced Concrete Floor, Reinforced Concrete Walls, Installed (liner extra)	sq. ft.	\$6.50
Agrichemical Containment Facility, Non-Reinforced Concrete Floor, Timber Walls, Installed (liner extra)	sq. ft.	ask Eng.
Agrichemical Containment Facility, Prefabricated Sump with Grate, Installed	ea.	\$250.00
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.	\$12.50
Agrichemical Containment Facility, Reinforced Concrete Floor, Reinforced Concrete Walls, Installed (liner or sealer extra)	sq. ft.	\$7.50
Agrichemical Containment Facility, Reinforced Concrete Floor, Timber Walls, Installed (liner extra)	sq. ft.	ask Eng.
Agrichemical Containment Facility, with Earth Berm, Installed (liner extra)	cu. yd.	\$9.00
Anti-seep collar	ea.	
Aquatic Plant Establishment	ac.	
Backhoe, Hydraulic, Track Mounted, with Operator	hr.	\$125.00
Backhoe/Loader, Tractor-type, with Operator	hr.	\$75.00
base flow interceptor	ea.	
Bioengineering, Brush Layering	sq. yd.	ask Eng.
Bioengineering, Brush Mattress		ask Eng.
Bioengineering, Cribwall, Live		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		ask Eng.
Bioengineering, Vegetated Geogrid		ask Eng.
Biological treatment - pest management	ac.	\$10.00
Bituminous Pavement, 3-inch thick, Installed	sq. yd.	\$6.50
Chemical application for burndown	ac.	\$4.75
Chemical Weed Control	ac.	\$30.00
Chisel Plowing	ac.	
Concrete Block Chute, with Geotextile, Installed	sq. ft.	ask Eng.
Concrete Blocks, 2 ft. x 2 ft. x 4 ft., Installed	ea.	\$75.00
Concrete Blocks, 2 ft. x 2 ft. x 6 ft., Installed	ea.	\$100.00
Concrete Flat Work , 8 inch non-reinforced, labor only	sq. ft.	
Concrete Flat Work 6 inch w/mesh, labor only	sq. ft.	

Concrete Flat Work, 4 inch non-reinforced, labor only	sq. ft.	
Concrete Flat Work, 4 inch w/mesh, labor only	sq. ft.	
Concrete Flat Work, 6 inch non-reinforced, labor only	sq. ft.	
Concrete, 3500 psi, delivered	cu. yd.	
Concrete, 4000 psi, delivered	cu. yd.	
Concrete, Flat Work, non-reinforced, labor and mtrls.	cu. Yd.	
Concrete, Non-Reinforced, 4-inch Thick over Compacted Sand, Flatwork, Installed	sq. yd.	\$17.00
Concrete, Non-Reinforced, 5-inch Thick over Compacted Sand, Flatwork, Installed	sq. yd.	\$21.00
Concrete, Non-Reinforced, Low Slump, 4-inch Thick, Flat or Slope, Installed	sq. yd.	\$24.00
Concrete, Non-Reinforced, Low Slump, 5-inch Thick, Flat or Slope, Installed	sq. yd.	\$30.00
Concrete, Reinforced, Cast In Place, Flat or Slope Installed	cu. yd.	\$300.00
Concrete, Reinforced, Cast In Place, Walls between 2 feet and 4 feet high, Installed	cu. yd.	\$300.00
Concrete, Reinforced, Cast In Place, Walls greater than 4 feet high, Installed	cu. yd.	\$370.00
Concrete, Reinforced, Cast In Place, Walls less than 2 feet high, Installed	cu. yd.	\$250.00
Conservation Crop Rotation	ac.	\$7.00
Contour Establishment	ac.	\$10.00
Corn cobs, sawdust or gravel, installed	ac.	n/a
Corridor Establishment	ft.	\$0.30
Coupler	ea.	
Cover Crop, legume installed - practice 340	ac.	
Cover Crop, non-legume installed - practice 340	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.	
Critical Area Planting - Moderate	ac.	
Critical Area Planting - Severe	ac.	
Critical Area Planting - Slight	ac.	
Crushed Limestone	cu. yd.	
Cultural Grazing	ac.	\$15.00
Cultural Grazing (temporary fence)	ac.	\$15.00
Cultural Grazing (temporary water)	ft.	\$0.15
Deep Plowing	ac.	\$12.00
Deflectors for stream habitat improvement	ft.	
Dewatering	hr.	ask Eng.
Disking	ac.	\$12.00
Ditch Plug	ea.	
Ditch Plug - extensive large ditch	ea.	\$1,000.00
Dozer, 105 HP, with Operator	hr.	\$110.00
Dozer, 200 HP, with Operator	hr.	\$140.00
Dozer, 75 HP, with Operator	hr.	\$80.00
Drill, Conventional	ac.	
Drill, No-Till	ac.	
Drill, No-Till, Native Grasses	ac.	
Drill, No-Till, Native Grasses, Delivery fee	ea.	
Dry Hydrant, with Head, Cap, and Strainer, incl. Fittings, Installed	ea.	\$1,200.00
Dump Truck, 12 Cu.Yd., with Operator	hr.	\$68.00
Dump Truck, 6 Cu.Yd., with Operator	hr.	\$58.00
Earthfill, Compacted, Off-site Material (3 mile haul)	cu. yd.	\$9.00
Earthfill, Compacted, On-site Material	cu. yd.	\$5.00
Earthwork - grading and shaping without fill	ac.	

Equipment Calibration - nutrient management	ac.	
Erosion Control Netting with Straw, Insalled (7.5'x120' with 100 sq.yd./roll)	sq. yd.	
Excavation, Common	cu. yd.	\$2.50
Excavation, Rock	cu. yd.	\$7.00
Excavation, Wet	cu. yd.	\$6.00
Fence - end portion	ea.	
Fence 6 strand wire, posts, etc. installed	lin. ft.	
Fence 7 strand wire, posts, etc. installed	lin. ft.	
Fence, 3 strand wire, posts, etc. installed	lin. Ft.	
Fence, 4 strand wire, posts, etc. installed	lin.ft.	
Fence, Corner H Brace 3 posts	ea.	
Fencing, 3 strand barbed wire	ft.	\$0.80
Fencing, Electric, Single Strand, Smooth Wire, Installed	ft.	\$1.05
Fencing, Electrified, High Tensile, 3-wire, installed, corners and ends not included	ft.	
Fencing, Electrified, High Tensile, 4-wire, installed, corners and ends not included	ft.	
Fencing, Electrified, High Tensile, 5-wire, installed, corners and ends not included	ft.	
Fencing, Smooth 5-Wire, Installed	ft.	\$0.90
Fencing, Woven Wire, Installed, 4 foot height	ft.	\$1.50
Fencing, Woven Wire, Installed, 8 foot height	ft.	
Fertilizer, Aerial application (100 lbs./ac.)	ac.	
Fertilizer, Phosphorus	lb.	
Fertilizer, Potassium	lb.	
Field Border @ 66 ft. wide	ft.	
Fill Sand, delivered	cu. Yd.	
Fill Sand, delivered and installed	cu. Yd.	
Filter Strips	ac.	
Firebreak, Permanent Vegetative Seeding (grasses or forbes), installed	ac.	\$100.00
Fish - stocking	no.	
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
Fungicide, Aerial application	ac.	
Geotextile fabric	sq. yd.	
Geotextile Reinforced Vegetated Chute, Installed (including Earthwork, Geotextile, Erosion Control Blanket, and Seeding with Fertilizer, etc.)	sq. ft.	\$5.00
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.	\$6.00
Grading and Shaping, Grassed Waterway, Installed	lin. ft.	\$3.00
Grain Food Plots	ac.	\$75.00
Gravel, 22A or 23 A (Road Gravel), Installed	cu. yd.	\$16.00
Gravel, Bank Run, Installed	cu. yd.	\$20.00
Gravel, Drain Fill, Installed	cu. yd.	\$18.00
Heavy Duty Discing - Primary Tillage	ac.	
Herbaceous cover cool season annual species, preparation, seed, fertilizer and planting	ac.	\$11.00
Herbaceous cover cool season, perennial preparation, seed, fertilizer and planting	ac.	\$80.00

Herbaceous cover warm season, annual, preparation, seed, fertilizer and planting	ac.	
Herbaceous cover warm season, perennial, preparation, seed, fertilizer and planting	ac.	\$300.00
Herbaceous plants and hand planting	each	\$0.49
Herbaceous wind barrier, Annual cool season, site preparation, seed, fertilizer, planting	ac.	\$11.00
Herbaceous wind barrier, Annual warm season, site preparation, seed, fertilizer, planting	ac.	
Herbaceous wind barrier, perennial cool season, site preparation, seed, fertilizer, planting	ac.	
Herbaceous wind barrier, Perennial warm season, site preparation, seed, fertilizer, planting	ac.	\$300.00
Herbicide Burndown (roundup @ 1 qt./ac.)	ac.	
Herbicide Burndown (roundup @ 2 qt./ac.)	ac.	
Herbicides and application (hand)	ac.	\$50.00
Herbicides and application (machine)	ac.	\$35.50
Herbicides, includes application	ac.	\$30.00
Hydroseeding (seed, site prep, fertilizer, and mulch)	sq. ft.	
Instream Woody Cover	sq. yd.	
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
Labor - General (\$7.50 wages and \$2.50 employer's costs)	hr.	
Layout of contour strips	ac.	\$5.00
Lime and Spreading	ton	
Lime and Spreading - GPS	ton	
Linear Channel Concrete for Fish Raceway	ft.	
Linear Channel Earthen for Fish Raceway	ft.	
Liner, Epoxy coating	sq. ft.	
Liner, Polypropylene, Reinforced, 36 mil	sq. ft.	
Liner, Polypropylene, Reinforced, 45 mil	sq. ft.	
Lunker Structure 3 ft. by 8 ft. White Oak	ea.	
Lunker Structures	ft.	
Manure Testing	ea.	
Mechanical Machine scalping (if not done during planting process)	ac.	\$45.00
Mechanical treatment - brush and pest management	ac.	\$100.00
Metal Fabrication, Installed	no.	ask Eng.
Moldboard Plowing	ac.	
Mowing	ac.	\$12.00
Mulch tie down netting	lin. ft.	
Mulch, Fertilizer and Labor	ac.	
Mulch, installed (includes labor)	sq. ft.	\$0.10
Mulch, Straw and Hay, Installed	1000 sq.ft.	
Native grass drill delivery fee	no.	\$60.00
Native grass seeding includes fertilizer, seed, labor and equipment	ac.	\$350.00
Native prairie planting	ac.	\$600.00
Nesting Structures (platforms, boxes)	no.	\$65.00
No-Till Alfalfa, spray, seed, fertilizer, planting and weed control	ac.	

No-Till Corn, spray, seed, fertilizer, planting and weed control	ac.	
No-Till, spray, seed, fertilizer, planting and weed control	ac.	\$18.00
Overfall Structure (0'-1.9')	ea.	
Overfall Structure (2'-2.9')	ea.	
Overfall Structure (3'-3.9')	ea.	
Pasture and Hayland Planting, seedbed preparation - No Till, seed, seeding and herbicides including application	ac.	\$88.00
Pasture and Hayland planting, seedbed preparation - plow, disc, drag and drill, seed, seeding and herbicides including application	ac.	\$30.00
Pasture and Hayland Planting, seedbed preparation, seed - double disc, drill and culipack, seeding and herbicides including application	ac.	\$75.00
Pest protection for trees/shrubs, fabric weed barrier	no.	\$1.00
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.	\$4.00
Pesticide Application - Aerial	ac.	
Pesticide Application - Highboy	ac.	
Pesticide Application - Regular	ac.	
Pipe Arch, Aluminum, Installed	lin. ft.	ask Eng.
Pipe Arch, Reinforced Concrete, Installed	lin. ft.	ask Eng.
Pipe Trenching, (w/Backhoe)	lin. ft.	\$2.50
Pipe Trenching, (w/Trencher)	lin. ft.	\$1.75
Pipe, Corrugated Metal w/ 10" rodent guard	lin.ft.	
Pipe, Corrugated Metal w/ 12" rodent guard	lin.ft.	
Pipe, Corrugated Metal w/ 18" rodent guard	lin.ft.	
Pipe, Corrugated Metal w/ 21" rodent guard	lin.ft.	
Pipe, Corrugated Metal w/ 24" rodent guard	lin. ft.	
Pipe, Corrugated Metal w/ 6" rodent guard	lin.ft.	
Pipe, Corrugated Metal w/ 8" rodent guard	lin.ft.	
Pipe, Corrugated Metal, 10-inch, Incl. Fittings, Installed	lin. ft.	\$9.70
Pipe, Corrugated Metal, 12-inch, Incl. Fittings, Installed	lin. ft.	\$10.95
Pipe, Corrugated Metal, 15-inch, Incl. Fittings, Installed	lin. ft.	\$13.85
Pipe, Corrugated Metal, 18-inch, Incl. Fittings, Installed	lin. ft.	\$16.00
Pipe, Corrugated Metal, 24-inch, Incl. Fittings, Installed	lin. ft.	\$20.80
Pipe, Corrugated Metal, 30-inch, Incl. Fittings, Installed	lin. ft.	\$26.20
Pipe, Corrugated Metal, 36-inch, Incl. Fittings, Installed	lin. ft.	\$37.85
Pipe, Corrugated Metal, 6-inch, Incl. Fittings, Installed	lin. ft.	\$6.75
Pipe, Corrugated Metal, 8-inch, Incl. Fittings, Installed	lin. ft.	\$8.20
Pipe, Corrugated Plastic (Dual Wall), 10-inch, Incl. Fittings, Installed	lin. ft.	\$5.45
Pipe, Corrugated Plastic (Dual Wall), 12-inch, Incl. Fittings, Installed	lin. ft.	\$6.45
Pipe, Corrugated Plastic (Dual Wall), 15-inch, Incl. Fittings, Installed	lin. ft.	\$8.20
Pipe, Corrugated Plastic (Dual Wall), 18-inch, Incl. Fittings, Installed	lin. ft.	\$11.35
Pipe, Corrugated Plastic (Dual Wall), 24-inch, Incl. Fittings, Installed	lin. ft.	\$16.30
Pipe, Corrugated Plastic (Dual Wall), 30-inch, Incl. Fittings, Installed	lin. ft.	\$25.70
Pipe, Corrugated Plastic (Dual Wall), 36-inch, Incl. Fittings, Installed	lin. ft.	\$32.65
Pipe, Corrugated Plastic (Dual Wall), 4-inch, Incl. Fittings, Installed	lin. ft.	\$2.90
Pipe, Corrugated Plastic (Dual Wall), 6-inch, Incl. Fittings, Installed	lin. ft.	\$4.05
Pipe, Corrugated Plastic (Dual Wall), 8-inch, Incl. Fittings, Installed	lin. ft.	\$5.25
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.	\$1.75

Pipe, PE, 1-1/4-inch, Incl. Fittings, Installed (water supply)	lin. ft.	\$1.50
Pipe, PE, 1-inch, Incl. Fittings, Installed (water supply)	lin. ft.	\$1.25
Pipe, PE, 2-inch, Incl. Fittings, Installed (water supply)	lin. ft.	\$2.00
Pipe, PVC, SCH-40, 10-inch, Incl. Fittings, Installed	lin. ft.	\$5.00
Pipe, PVC, SCH-40, 4-inch, Incl. Fittings, Installed	lin. ft.	\$3.00
Pipe, PVC, SCH-40, 6-inch, Incl. Fittings, Installed	lin. ft.	\$4.00
Pipe, PVC, SCH-40, 8-inch, Incl. Fittings, Installed	lin. ft.	\$4.50
Pipe, Reinforced Concrete, 12-inch, Incl. Fittings, Installed	lin. ft.	ask Eng.
Pipe, Reinforced Concrete, 18-inch, Incl. Fittings, Installed	lin. ft.	ask Eng.
Pipe, Reinforced Concrete, 24-inch, Incl. Fittings, Installed	lin. ft.	ask Eng.
Pipe, Reinforced Concrete, 30-inch, Incl. Fittings, Installed	lin. ft.	ask Eng.
Pipe, Reinforced Concrete, 36-inch, Incl. Fittings, Installed	lin. ft.	ask Eng.
Pipeline Mechanical Station, with Pressure Tank and Appurtenances, Installed (for Watering Facility)	no.	ask. Eng.
Plant Tissue Analysis - Stalk Nitrate	ea.	
Plant Tissue Analysis - Total Nitrate Alone	ea.	
Plant tissue Analysis Field Crop and Vegetable Crop	ea.	
Plant Tissue Analysis Fruit Trees and Crops	ea.	
Plastic conduit-perf. Sock	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
Pond Sealing and Lining, Earthfill, Clay Liner, Off-site Clay Material (10-mile haul), Installed	cu. yd.	\$18.00
Pond Sealing and Lining, Earthfill, Clay Liner, On-site Clay Material, Installed	cu. yd.	\$9.00
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
Prescribed Burning - 1 crew chief, 5 hrs.; 4 crew, 3hr; on 10 acres @ \$10/hr	ac.	
Pump Station, incl. Materials and Labor, Installed	ea.	ask Eng.
Pushout - Excavation	ac.	
PVC Liner, Installed	sq. ft.	
Ram Pump, Livestock Water, Complete, Installed	ea.	\$1,500.00
Record Keeping	ac.	
Reinforcing Mesh, 6x6#10	sq. ft.	
Reinforcing Mesh, 6x6#6	sq. ft.	
Reinforcing Rod, Grade 40 #3	lin. ft.	
Reinforcing Rod, Grade 40 #4	lin. ft.	
Reinforcing Rod, Grade 40 #5	lin. ft.	
Reinforcing Rod, Grade 60 #4	lin. ft.	
Reinforcing Rod, Grade 60 #5	lin. ft.	
Reinforcing Rod, Grade 60 #6	lin. ft.	
Ripping for Deep Tillage	ac.	\$12.00
Riser, Corrugated Metal, 24-inch Dia., with 18-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$2,170.00
Riser, Corrugated Metal, 24-inch Dia., with 18-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$2,220.00
Riser, Corrugated Metal, 30-inch Dia., with 24-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$2,350.00

Riser, Corrugated Metal, 30-inch Dia., with 24-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$2,440.00
Riser, Corrugated Metal, 36-inch Dia., with 24-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$2,650.00
Riser, Corrugated Metal, 36-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$2,550.00
Riser, Corrugated Metal, 42-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$2,740.00
Riser, Corrugated Metal, 42-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$2,870.00
Riser, Corrugated Plastic, 24-inch Dia., with 18-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$1,790.00
Riser, Corrugated Plastic, 24-inch Dia., with 18-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$1,830.00
Riser, Corrugated Plastic, 30-inch Dia., with 24-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$1,890.00
Riser, Corrugated Plastic, 30-inch Dia., with 24-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$1,930.00
Riser, Corrugated Plastic, 36-inch Dia., with 24-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$1,930.00
Riser, Corrugated Plastic, 36-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$1,930.00
Riser, Corrugated Plastic, 42-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 5-feet High, Installed	ea.	\$2,540.00
Riser, Corrugated Plastic, 42-inch Dia., with 30-inch Dia. Stub, Antivortex and Trash Guard, 8-feet High, Installed	ea.	\$2,600.00
Rock Riprap, D-50 = 12 inch, with Geotextile, Installed	cu. yd.	\$40.00
Rock Riprap, D-50 = 15 inch, with Geotextile, Installed	cu. yd.	\$40.00
Rock Riprap, D-50 = 18 inch, with Geotextile, Installed	cu. yd.	\$40.00
Rock Riprap, D-50 = 4 inch, with Geotextile, Installed	cu. yd.	\$40.00
Rock Riprap, D-50 = 6 inch, with Geotextile, Installed	cu. yd.	\$40.00
Rock Riprap, D-50 = 9 inch, with Geotextile, Installed	cu. yd.	\$40.00
Rodent Guard, 10-inch, Installed	ea.	\$30.00
Rodent Guard, 12-inch, Installed	ea.	\$32.00
Rodent Guard, 15-inch, Installed	ea.	\$46.00
Rodent Guard, 4-inch, Installed	ea.	\$21.00
Rodent Guard, 6-inch, Installed	ea.	\$23.00
Rodent Guard, 8-inch, Installed	ea.	\$26.00
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.	\$13.00
Salvaging and Spreading Topsoil	cu. yd.	\$3.00
Salvaging and Spreading Topsoil (2 to 3 inches thick)	ac.	
Scouting for All Pests	ac.	
Scouting for Insects and Disease	ac.	
Scouting for Weeds	ac.	
Scouting, traps, baits, etc., - pest management - All Pests	ac.	\$4.00

Seed - Clear Alfalfa	ac.	
Seed - Cool Season Grasses and Lequmes	ac.	
Seed - Prairie w/ Forbs	ac.	
Seed - Warm Season Grasses	ac.	
Seed, Mulch and Fertilizer (includes labor) forest site	ac.	\$333.00
Seedbed Preparation forest site	ac.	\$100.00
Seeding, Aerial application only	/bu/ac	
Seeding, Aerial w/seed	ac.	
Seeding, Broadcast, conventional w/seed	ac.	
Seeding, Cool Season, Drill or Broadcast, with Seedbed Preparation, and Fertilizer, Installed	ac.	
Seeding, Cool Season, Drill or Broadcast, with Seedbed Preparation, Fertilizer and Mulch, Installed	ac.	\$400.00
Seeding, Drill or Broadcast, with Seedbed Preparation, Fertilizer, Mulch and Netting, Installed	ac.	\$1,500.00
Seeding, Frost Seeding	ac.	
Seeding, Hydroseed, with Seedbed Preparation, Fertilizer and Mulch, Installed	ac.	
Seeding, Warm Season, Drill or Broadcast, with Seedbed Preparation, and Fertilizer, Installed	ac.	
Seeding, Warm Season, Drill or Broadcast, with Seedbed Preparation, Fertilizer and Mulch, Installed	ac.	
Seeding, with Seedbed Preparation, Fertilizer, Mulch and Erosion Control Blanket, Installed	ac.	\$2,650.00
Serpentine Channel - Excavation	lin. ft.	
Sheet Piling, Installed	ton	ask Eng.
Shelterbelt preparation, seedlings, planting	ft.	
Silt Fence, Installed	lin. ft.	\$6.00
Site Preparation - Clear and Grub Heavy	ac.	
Site Preparation - Clear and Grub Light	ac.	
Site Preparation - Clear and Grub Medium	ac.	
Site Preparation (Clearing and grubbing)	ac.	\$3,000.00
Site Preparation for fence (Clearing and grubbing)	hr.	\$100.00
Site preparation for stream habitat improvement	ac.	
Site Preparation, cleaing and grubbing (no trees)	ac.	
Sodding	ac.	
Soil Sampling - Grid	ac.	
Soil Sampling - Grid - PSNT	ac.	
Soil Sampling - Standard	ac.	
Soil Sampling - Standard -PSNT	ac.	
Soil Test - PSNT	ea.	
Soil Test - PSNT by acre	ac.	
Soil Test - Standard	ea.	
Soil Test - Standard by acre	ac.	
Soil Test (Basic)	ea.	
Soil Test (Complete)	ea.	
Soil Test (Grid Sampling)	ac.	
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 micronutrient - Copper	ea.	
Soil Test micronutrient - Iron	ea.	
Soil Test micronutrient - Manganese	ea.	
Soil Test micronutrient - Zinc	ea.	
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
Spoil Spreading by acre	ac.	
Spot or band spraying	ac.	\$5.50
Spring Development, Complete System (does not include Tank or Trough), Installed	ea.	ask Eng.
Straw or hay mulch, installed	ac.	\$300.00
	1000 sq.	
Straw or Hay Mulch, per 1000 sq. ft., Installed	ft.	
Stream Crossing and Livestock Access - 728	lin. ft.	
Stream Crossing, with 1 foot thick Coarse Aggregate Ramp, Installed on mineral soil	sq. ft.	\$6.00
Strip layout	ac.	\$5.00
Structure Removal	ea.	ask Eng.
Structures (boxes, brush piles, etc.)	ea.	
Subsoiling	ac.	\$12.00
Surface Inlet, Perforated, incl., Fittings, Installed (for WASCObS and Terraces)	ea.	\$200.00
Tandem Discing	ac.	
Tank Raceway Concrete	gal.	
Tank Raceway Fiberglass	gal.	
Tank Raceway Metal	gal.	
Tile - Pipe, Corrugated Plastic Tubing (Single Wall, Perforated or non-Perforated), 10-inch, Incl. Fittings, Installed	lin. ft.	\$5.30
Tile - Pipe, Corrugated Plastic Tubing (Single Wall, Perforated or non-Perforated), 12-inch, Incl. Fittings, Installed	lin. ft.	\$6.25
Tile - Pipe, Corrugated Plastic Tubing (Single Wall, Perforated or non-Perforated), 4-inch, Incl. Fittings, Installed	lin. ft.	\$2.55
Tile - Pipe, Corrugated Plastic Tubing (Single Wall, Perforated or non-Perforated), 6-inch, Incl. Fittings, Installed	lin. ft.	\$3.25
Tile - Pipe, Corrugated Plastic Tubing (Single Wall, Perforated or non-Perforated), 8-inch, Incl. Fittings, Installed	lin. ft.	\$4.15
Tile Break and or plug	ea.	400
Tile, plastic 10"	ft.	
Tile, plastic 12"	ft.	
Tile, plastic 15"	ft.	
Tile, plastic 18"	ft.	
Tile, plastic 4"	ft.	
Tile, plastic 6"	ft.	
Tile, plastic 8"	ft.	
Tillage	ac.	\$15.50
Timber Fabrication, Treated, Installed	bd. ft.	ask Eng.
Timber harvesting	ac.	
Tissue Collection & Testing (Field Crops/Vegetables)	ea.	

Tissue test for small fruit and tree crops, soil ph test, sampling, calibration of application equipment, recordkeeping	ac.	
Tissue Testing	ea.	
Tree Planting - Hand (10x10 spacing - includes scalping, equipment and labor)	ac.	
Tree Planting - Hand (6x8 spacing - includes scalping, equipment and labor)	ac.	
Tree Planting - Machine (10x10 spacing-includes scalping, equipment and labor)	ac.	
Tree Planting - Machine (6x8 spacing-includes scalping, equipment and labor)	ac.	
Tree Planting - Weed Control - Equipment and Labor	no.	
Tree Planting, Hand, Transplants	ea.	
Tree Planting-Hand (includes scalping, equipment and labor)	no.	\$0.16
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 Thinning (cutting or chemically killing trees or vines) Hardwood-Crop Tree Release (min. 20 sq. ft. b.a. removed/ac) Poles (trees 5-11" DBH)	ac.	
Tree Thinning (cutting or chemically killing trees or vines) Hardwood-Crop Tree Release (min. 20 sq. ft. b.a. removed/ac) Saplings (trees under 5" DBH)	ac.	
Tree Thinning (cutting or chemically killing trees or vines) Hardwood-Crop Tree Release (min. 20 sq. ft. b.a. removed/ac) Saw timber size culls (trees over 11" DBH)	ac.	
Tree Tubes, 4 foot w/stake	ea.	
Trees/Shrubs-conifer bare root or containerized plugs 2-0 to 3-0 stock	no.	\$0.18
Trees/Shrubs-deciduous	no.	\$0.33
Trough or Tank, Galv., 100 gal., with Gravel Pad, Installed	ea.	\$340.00
Trough or Tank, Galv., 200 gal., with Gravel Pad, Installed	ea.	\$360.00
Trough or Tank, Galv., 400 gal., with Gravel Pad, Installed	ea.	\$410.00
Trough or Tank, Poly., 100 gal., with Gravel Pad, Installed	ea.	\$350.00
Trough or Tank, Poly., 200 gal., with Gravel Pad, Installed	ea.	\$390.00
Trough or Tank, Poly., 400 gal., with Gravel Pad, Installed	ea.	\$460.00
Trough or Tank, valve, pad and labor	ea.	
Vegetative barrier, layout, site preparation, plant material plugs, hand planting and weed control		
Vegetative Control - Chemical	ac.	\$4.75
Vegetative Control - Manual	ac.	\$0.00
Vegetative Control - Mowing	ac.	\$8.00
Vegetative Establishment - Native prairie	ac.	\$600.00
Vegetative Establishment - Native shrub	no.	\$0.70
Vegetative Establishment - Native trees	no.	\$0.70
Vine Removal in forest	each	\$0.35
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.
Water Control Structure, In-Line, 4-feet high, 10-inch pipe, Installed (pipe extra)	ea.	\$2,600.00
Water Control Structure, In-Line, 4-feet high, 12-inch pipe, Installed (pipe extra)	ea.	\$2,700.00
Water Control Structure, In-Line, 4-feet high, 18-inch pipe, Installed (pipe extra)	ea.	\$2,900.00
Water Control Structure, In-Line, 4-feet high, 24-inch pipe, Installed (pipe extra)	ea.	\$3,600.00
Water Control Structure, In-Line, 4-feet high, 6-inch pipe, Installed (pipe extra)	ea.	\$2,500.00
Water Control Structure, In-Line, 4-feet high, 8-inch pipe, Installed (pipe extra)	ea.	\$2,600.00
Water level control structure	ea.	

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
Weed Control Mats	ea.	
Well Decommissioning, Bedrock Well	ea.	\$1,200.00
Well Decommissioning, Dug Well	ea.	\$500.00
Well Decommissioning, Sand/Gravel Well	ea.	\$300.00
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.	25.00
Well, Drilled, 6-inch, Installed	lin. ft.	\$30.00
Well, Driven, 1.5 inch, labor and mtrls.	ft.	
Well, Dug, labor and mtrls.	cu. yd.	
Well, Rock, Drilled 3 inch, labor and mtrls.	ft.	
Well, Rock, Drilled 4 inch, labor and mtrls.	ft.	
Well, Rock, Drilled 6 inch, labor and mtrls.	ft.	
Wildflower Planting	ac.	\$500.00
Wood chips or bark mulch	cu. yd.	
Wood chips or bark, installed	ac.	
Woody Plant Control	ac.	
Zone Tillage or Para Plowing	ac.	\$16.00