

TABLE 1 - PLANT MATERIALS - SEED

Name	Plant Size Description	Unit of Measure	Average	Local Cost
Alfalfa	NA	LB	\$1.70	
Annual ryegrass	NA	LB	\$0.50	
Big bluestem - Niagara	NA	LB	\$13.90	
Birdsfoot trefoil - Empire	NA	LB	\$2.30	
Birdsfoot trefoil - Pardee	NA	LB	\$2.80	
Birdsfoot trefoil - Viking	NA	LB	\$2.80	
Clover - Alsike	NA	LB	\$1.30	
Clover - Ladino	NA	LB	\$2.00	
Clover - White	NA	LB	\$2.00	
Panicgrass - Atlantic Coastal	NA	LB	\$12.00	
Creeping red fescue - Ensylva	NA	LB	\$1.40	
Crownvetch - Chemung	NA	LB	\$17.00	
Crownvetch - Penngift	NA	LB	\$16.50	
Deertongue - Tioga	NA	LB	\$6.00	
Eastern gamagrass - Pete	NA	LB	\$9.00	
Flatpea - Lathco	NA	LB	\$10.00	
Indiangrass - NE-54	NA	LB	\$15.40	
Indiangrass - Ramsey	NA	LB	\$15.00	
Kentucky bluegrass - Adelphi	NA	LB	\$5.00	
Kentucky bluegrass - Baron	NA	LB	\$5.00	
Little bluestem - Aldous	NA	LB	\$16.30	
Little bluestem - Camper	NA	LB	\$16.30	
Orchardgrass	NA	LB	\$1.70	
Perennial pea - Lancer	NA	LB	\$30.00	
Redtop - Streaker	NA	LB	\$4.00	

TABLE 1 - PLANT MATERIALS – SEED (CONTINUED)

Name	Plant Size Description	Unit of Measure	Average	Local Cost
Reed canarygrass - Palaton	NA	LB	\$2.50	
Reed canarygrass - Venture	NA	LB	\$2.50	
Sand bluestem - Goldstrike	NA	LB	\$17.00	
Sand lovegrass - Bend	NA	LB	\$11.80	
Sand lovegrass - NE27	NA	LB	\$11.80	
Smooth bromegrass - Baylor	NA	LB	\$1.20	
Smooth bromegrass - Saratoga	NA	LB	\$1.20	
Switchgrass - Cave-in-Rock	NA	LB	\$4.30	
Switchgrass - Shelter	NA	LB	\$4.00	
Tall fescue - KY-31	NA	LB	\$1.30	
Tall fescue - Rebel	NA	LB	\$1.60	
Timothy - Climax	NA	LB	\$0.90	
Wildflower mix - misc.	NA	LB	\$30.00	

TABLE 2 – PLANT MATERIALS – MULCH AND PLANT PROTECTION

Name	Description	Unit Of Measure	Cost/Unit	Local Cost
Compost or manure	NA	LB	\$0.06	
Hay or straw	NA	AC	\$125.00	
Green blankets - Straw (Regular duty)	6.67' x 108'	EA.	\$38.00	
Green blankets - Straw (High velocity)	6.67' x 108'	EA.	\$60.00	
Green blankets - Straw & Coconut	6.67' x 108'	EA.	\$90.00	
Green blankets - Coconut	6.67' x 108'	EA.	\$105.00	
Wood chips or shavings	NA	LB	\$0.10	
Wood fiber cellulose	34 – 60 lb. Bales	TN	\$345.00	
Tree Protectors		EA.	\$3.50	

TABLE 3 – PLANT MATERIALS – TREES AND SHRUBS

Name	Plant Size Description	Unit	Average Cost	Local Cost
Trees				
Arborvitae, American		EA.	\$0.70	
Ash, Green		EA.	\$0.60	
Birch, Paper		EA.	\$0.90	
Catalpa, Northern		EA.	\$0.80	
Cedar, Atlantic White	6-12"	EA.	\$0.50	
Cedar, Eastern Red	2 yr.	EA.	\$0.30	
Cedar, Northern White	3 yr.	EA.	\$0.50	
Cherry, Black		EA.	\$0.70	
Crabapple		EA.	\$0.80	
Cranberrybush, American		EA.	\$0.80	
Fir, Balsam	7-14"	EA.	\$0.50	
Fir, Douglas	3 yr. (12-14")	EA.	\$0.50	
Hemlock, Eastern	7-14"	EA.	\$0.70	
Hickory, Shagbark	3	EA.	\$7.00	
Maple, Red	2 yr. (6-12")	EA.	\$0.70	
Maple, Sugar	2 yr. (6-12")	EA.	\$0.70	
Ash, Mountain - American		EA.	\$0.70	
Oak, Red (Northern)	2 yr.	EA.	\$0.80	
Oak, Swamp White		EA.	\$0.60	
Oak, White	2 yr.	EA.	\$0.70	
Pine, Eastern White	3 yr. (8-12")	EA.	\$0.50	
Pine, Pitch	6-10"	EA.	\$0.30	
Pine, Red	8-18"	EA.	\$0.60	
Pine, Scotch	7-14"	EA.	\$0.40	

TABLE 3 – PLANT MATERIALS – TREES AND SHRUBS (CONTINUED)

Name	Plant Size Description	Unit	Average Cost	Local Cost
Trees				
Poplar, Tulip		EA.	\$0.80	
Spruce, Black		EA.	\$0.50	
Spruce, Norway	3 yr. (10-14")	EA.	\$0.50	
Spruce, Red	2 yr. (6-10")	EA.	\$0.40	
Spruce, White	3 yr. (10-14")	EA.	\$0.50	
Sycamore		EA.	\$0.70	
Walnut, Black	1 yr.	EA.	\$0.90	
Shrubs				
Arrowwood		EA.	\$0.60	
Bayberry	2 yr.	EA.	\$0.70	
Beach plum		EA.	\$0.60	
Blueberry		EA.	\$2.00	
Blueberry, Highbush (transplant)		EA.	\$2.20	
Buttonbush - Keystone		EA.	\$0.90	
Dogwood, Gray-stemmed		EA.	\$0.60	
Dogwood, Ruby redosier		EA.	\$0.70	
Dogwood, Silky	2 yr.	EA.	\$0.70	
Forsythia		EA.	\$0.60	
Hazelnut, American		EA.	\$0.80	
Lilac		EA.	\$0.70	
Locust, Arnot Bristly	1 yr.	EA.	\$0.30	
Rugosa Rose - Sandy	1 yr.	EA.	\$0.60	
Sand cherry - Catskill Dwarf		EA.	\$0.80	

TABLE 3 – PLANT MATERIALS – TREES AND SHRUBS (CONTINUED)

Name	Plant Size Description	Unit	Average Cost	Local Cost
Shrubs (Continued)				
Willow - Streamco purpleosier	1 yr. Rooted cutting	EA.	\$0.60	
Witch-hazel		EA.	\$0.70	

TABLE 4 – COMPONENT COST DATA

Name	Unit	Average	Local Cost
Concrete			
Concrete Septic Tank - 2000 gal.	EA.	\$1,500.00	
Concrete Septic Tank - precast, delivered, set in, 1000 gallons	EA.	\$760.00	
Concrete Septic Tank - precast, delivered, set in, 500 gallons	EA.	\$540.00	
Concrete Septic Tank distribution box	EA.	\$ 75.00	
Pad, w/reinforcements	CY	\$173.00	
Flat work with curbing	CY	\$220.00	
Wall-Vertical, poured in place, w/reinforcement	CY	\$320.00	
Wall-Vertical, poured in place, w/reinforcement, hoppers	CY	\$310.00	
Wall, Vertical, poured in place, w/reinforcement, curbs w/reinforcements	CY	\$340.00	
CMP Outlets (Installation and Fitting)			
6 inch	FT	\$3.90	
8 inch	FT	\$5.15	
10 inch	FT	\$ 6.30	
12 inch	FT	\$8.60	
15 inch	FT	\$10.00	
18 inch	FT	\$12.20	
Hicken Bottom Kit (6")	EA.	\$42.00	
Hicken Bottom Kit (8")	EA.	\$ 65.00	
Hicken Bottom Kit (10")	EA.	\$ 100.00	
Hicken Bottom Kit (12")	EA.	\$220.00	

TABLE 4 – COMPONENT COST DATA (CONTINUED)

Name	Unit	Average	Local Cost
CPDT (Installation and Fitting)			
4 inch	FT	\$1.40	
6 inch	FT	\$1.80	
8 inch	FT	\$ 2.80	
10 inch	FT	\$ 4.40	
12 inch	FT	\$ 5.60	
15 inch	FT	\$7.30	
Crop Operations			
Plow (100 hp tractor, 4/16 plow)	AC	\$18.10	
Fert (80 hp tractor, 10' spreader)	AC	\$ 7.90	
Disk (80 hp tractor, 13' disk)	AC	\$11.10	
Cultipak (80 hp tractor, 14' cultipaker)	AC	\$11.30	
Drill (100 hp tractor, 10' drill)	AC	\$13.10	
Spray (50 hp tractor, 28' sprayer)	AC	\$ 7.70	
Custom Liming	AC	\$32.00	
Mowing (80 hp tractor, 9' mower)	AC	\$10.70	
Excavation			
Backhoe (5/8 - 1/4 CY +)	HR	\$ 64.80	
D-6 Dozer	HR	\$ 96.00	
D-4 Dozer	HR	\$71.00	
D-5 Dozer	HR	\$ 86.00	
D-8 Dozer	HR	\$135.00	
Dump, Single 5-7 CY	HR	\$ 35.00	
Dump, Tandem 10-12 CY	HR	\$ 55.00	

TABLE 4 – COMPONENT COST DATA (CONTINUED)

Name	Unit	Average	Local Cost
Excavation (continued)			
Excavator (120 hp)	HR	\$ 110.00	
Excavator (1CY+)	HR	\$105.00	
Excavator (80 hp)	HR	\$ 90.00	
Rock Excavation - 100 yd., incl. Blasting	CY	\$ 52.00	
Rock Excavation - excess of 100 yd., incl. blasting	CY	\$ 23.00	
Rock Excavation - ripped	CY	\$16.00	
Roller/Compactor	HR	\$ 55.00	
Scraper	HR	\$ 97.00	
Grazing System Components			
Barbed wire (3 strand)	FT	\$1.60	
Corner brace assembly	EA.	\$129.00	
Electric Fence Charger	EA.	\$ 310.00	
End brace	EA.	\$ 79.00	
Galvanized wire: smooth 12.5 gage - 4000 FT roll	EA.	\$ 65.00	
Gate - 6 bar heavy duty - 10'	EA.	\$200.00	
Gate - 6 bar heavy duty - 12'	EA.	\$220.00	
Gate - 6 bar heavy duty - 14'	EA.	\$260.00	
Gate - 6 bar heavy duty - 16'	EA.	\$290.00	
Gate - 6 bar heavy duty - 18'	EA.	\$310.00	
Gate (4' metal)	FT	\$110.00	
High tensile fencing - 2 strand installed	FT	\$1.20	

TABLE 4 – COMPONENT COST DATA (CONTINUED)

Name	Unit	Average	Local Cost
Grazing System Components			
High tensile fencing - 3 strand installed	FT	\$1.30	
High tensile fencing - 5 strand installed	FT	\$1.80	
High tensile fencing -4 strand installed	FT	\$1.50	
High tensile tensioner	EA.	\$ 2.50	
Posts - locust 7.5'	EA.	\$ 2.60	
Posts (8'x4"x6")	EA.	\$ 9.90	
Two strand electric fence, 1 hot wire, 16' between posts, installed	FT	\$ 0.80	
Woven wire, 4' height	FT	\$ 2.70	
Fertilizer and Soil Amendments			
Nitrogen	LB	\$ 0.30	
Phosphorus	LB	\$ 0.24	
Potassium	LB	\$0.13	
Lime (custom application)	AC	\$ 27.00	
Fill Material			
Earth Fill - class C compaction	CY	\$ 2.50	
Hauled Fill - class C compaction, A-A item	CY	\$ 6.80	
Halued Fill - class C, 200-300 ft. haul	CY	\$3.10	
Manure Handling			
Manure agitator - pump PTO	EA.	\$9,900.00	
Manure Ram Pump	EA.	\$8,500.00	
Manure elevator/stacker	EA.	\$6,800.00	
Manure auger - with motor, permanent installation	EA.	\$6,000.00	

TABLE 4 – COMPONENT COST DATA (CONTINUED)

Name	Unit	Average	Local Cost
Manure Handling			
Manure pump - mechanical L.S. or compressed air, incl. transfer pipe, elec. motors/compressors, and all appurtenances, installed	EA.	\$14,600.00	
HDPE Pipe, smooth interior - couplers are built in			
12"	FT	\$ 8.50	
15"	FT	\$10.50	
18"	FT	\$10.00	
24"	FT	\$16.25	
24" AASHTO M294	FT	\$ 30.00	
30"	FT	\$ 23.75	
36"	FT	\$ 29.00	
Manure Pipes			
Smooth Steel, 18 inch	FT	\$ 23.30	
Smooth Steel, 20 inch	FT	\$ 28.10	
Smooth Steel, 24 inch	FT	\$ 34.10	
14 Gauge Galvanized - 36 inch	FT	\$ 34.40	
14 Gauge Galvanized - 48 inch	FT	\$42.00	
SDR-35 PVC, 6 inch	FT	\$ 4.00	
SDR-35 PVC, 12 inch	FT	\$10.00	
SDR-35 PVC, 15 inch	FT	\$12.00	
SDR-35 PVC , 18 inch	FT	\$ 28.80	
SDR-35 PVC, 30 inch	FT	\$ 66.50	

TABLE 4 – COMPONENT COST DATA (CONTINUED)

Name	Unit	Average	Local Cost
Manure Pipes 16G (plain GALVANIZED)			
18 inch	FT	\$18.90	
24 inch	FT	\$ 22.90	
30 inch	FT	\$26.10	
36 inch	FT	\$ 30.50	
38 inch	FT	\$ 34.30	
48 inch	FT	\$39.10	
Miscellaneous			
Gabion Basket (in place)	CY	\$125.00	
Animal Guard	EA.	\$10.00	
Filter Wrap (36" x 1500' = \$100)	SF	\$ 0.05	
Geotextile Fabric	SY	\$ 2.80	
Petroleum Containment			
Concrete secondary containment, 500 gal.	EA.	\$ 1,100.00	
Concrete secondary containment, 1,000 gal.	EA.	\$1,800.00	
PVC Outlet SCH-40 (Pipe and Installation)			
4 inch	FT	\$ 3.30	
6 inch	FT	\$5.20	
8 inch	FT	\$ 7.40	
10 inch	FT	\$ 8.90	
12 inch	FT	\$11.50	
PVC Outlet SCH-2729 (Pipe and Installation)			
4 inch	FT	\$ 2.50	

TABLE 4 – COMPONENT COST DATA (CONTINUED)

Name	Unit	Average	Local Cost
PVC SDR-35 (Pipe and installation)			
4 inch	FT	\$ 2.30	
6 inch	FT	\$4.20	
8 inch	FT	\$ 5.90	
10 inch	FT	\$ 7.90	
12 inch	FT	\$10.00	
Quarry Products			
Gravel, Drain Fill, Bank Run/Clean, Hauled	CY	\$ 8.40	
Rock Riprap (in place)	CY	\$ 37.50	
No. 1 Stone (hauled)	CY	\$17.50	
No. 2 Stone (hauled)	CY	\$21.70	
Bank run gravel	CY	\$ 8.90	
Crusher run	CY	\$13.80	
Stone dust	CY	\$14.30	
Services and Equipment Rental			
Chainsaw and operator	HR	\$ 23.00	
Tree/Shrub Planting	AC	\$140.00	
Labor (skilled)	HR	\$ 32.50	
Labor (unskilled)	HR	\$16.70	
Manure analysis (complete)	AC	\$ 25.90	
Soils Test (Cornell University, complete)	EA.	\$11.50	
Tree/Shrub Planting Equipment Rental	HR	\$ 32.50	

TABLE 4 – COMPONENT COST DATA (CONTINUED)

Name	Unit	Average	Local Cost
Spring Tiles			
30 inch x 3 foot (Catch)	EA.	\$235.00	
30 inch x 4 foot (Catch)	EA.	\$280.00	
8 foot x 4 foot	EA.	\$285.00	
30 inch x 5 foot	EA.	\$310.00	
6 foot x 4 foot	EA.	\$250.00	
Cover (30 inch square)	EA.	\$ 50.00	
Cover (8 foot diameter)	EA.	\$160.00	
Cover (6 foot square)	EA.	\$150.00	
Catchbasin (2.5' x 3.5' w/base and grate)	EA.	\$375.00	
Steel			
Structural Steel - Fabricated Gates, etc.	LB	\$ 3.50	
Timber Structures			
Timber structure - timber column and pressure treated plank manure mgt. storage facility w/o roof, 10' wall height, incl. all appurtenances. Basic size 50'x48' and \$1,359/4' section.	EA.	\$ 23,320.00	
Timber wall- pressure treated posts, surface treated planks, 4' wall height.	FT	\$15.00	
Timber wall - pressure treated posts, surface treated planks, 6' wall height.	FT	\$21.00	
Water Handling			
Energy Free Waters - 15 beef, 33 gal.	EA.	\$340.00	
Energy Free Waters - 180 beef, 33 gal.	EA.	\$460.00	
Frostless Hydrants -	EA.	\$ 52.50	
Hydro-ram kits (complete) - 1 inch	LS	\$ 162.00	

TABLE 4 – COMPONENT COST DATA (CONTINUED)

Name	Unit	Average	Local Cost
Water Handling			
Hydro-ram kits (complete) - 1.5 inches	EA.	\$200.00	
Hydro-ram kits (complete) - 2 inches	LS	\$270.00	
Piping - polyethylene, 1.25 inch tubing, 100# installed	FT	\$1.20	
Piping - polyethylene, 1.25 inch tubing, 160# installed	FT	\$1.50	
Piping - polyethylene, 1.5 inch tubing, 100# installed	FT	\$1.40	
Piping - polyethylene, 2 inch tubing, 100# installed	FT	\$1.70	
PVC - 1.5"	FT	\$ 4.00	
PVC - 1.25"	FT	\$ 4.00	
Riser, Diversion or Terrace Outlet	LS	\$225.00	
Riser, Diversion or Terrace Outlet - 4 inch Corrugated Solid	LS	\$1.50	
Riser, Diversion or Terrace outlet - 6 inch Corrugated solid	FT	\$2.10	
Solar pump Kits - Complete with 2 Panels, 100 feet	FT	\$1,730.00	
Water Bar - Broad	EA.	\$ 75.00	
Water Bar - Narrow	EA.	\$160.00	
Water Bar - Small concrete	FT	\$ 40.00	
Water tank - "Poly Stock" 100 gallons	EA.	\$ 80.00	
Water tank - "Poly Stock" 150 gallons	EA.	\$ 75.00	
Water tank - "Poly Stock" 300 gallons	EA.	\$190.00	
Water tank - plastic 1,000 gal.	EA.	\$420.00	

TABLE 4 – COMPONENT COST DATA (CONTINUED)

Name	Unit	Average	Local Cost
Water Handling			
Water tank - plastic 1,500 gal.	EA.	\$495.00	
Water trough - plastic (100 gal.)	EA.	\$ 70.00	
Pump - 5 HP	EA.	\$240.00	
Valve kit: bottom feed float type	EA.	\$ 34.00	