

Unit Cost Summary

This file provides estimates of typical costs for structural-type conservation practices. Actual costs for specific projects may vary considerably depending on site conditions and location. Where practical and feasible, inputs, quantities, and prices from actual bills were used. Contract numbers are provided, as well as the date installed and the county it was installed in. If a cost estimate has a contract number, it came from bills from an actual job that was installed and paid on. If no contract number is provided, costs were estimated by other means. All costs were updated to July 2007 dollars.

Practice Name	Component	Unit Type	Estimated Total Unit Cost
Access Road (560)	Access Road	foot	\$ 11.08
Agrichemical Handling Facility (702)	Agrichemical Handling Facility	sf	\$ 33.04
Animal Trails & Walkways (575)	Animal Trails & Walkway	foot	\$ 14.10
Composting Facility (317)	No roof, with curb or wall	sf	\$ 6.13
	No roof, curb or wall	sf	\$ 4.63
	roof for existing or new facility	sf	\$ 12.61
Diversion (362)	Diversion	foot	\$ 5.25
Fence (382)	Permanent fence	foot	\$ 2.87
	Temporary fence	foot	\$ 1.06
Firebreak (394)	Cropland	foot	\$ 1.26
	Forestland	foot	\$ 5.25
Fish Passage (396)	Arch culverts greater than 14'	foot	\$ 1,157.19
	Arch culverts 14' and smaller	foot	\$ 747.47
	Alaskan Steeppass	no.	\$ 172,278.00
Grade Stabilization Structure (410)	Rock Chute	no.	\$ 8,399.29
Grassed Waterway (412)	< .5 acres	acre	\$ 8,944.18
	>= .5 acres	acre	\$ 6,237.56
	>= .5 acres with erosion cont. material	acre	\$ 8,343.01
	< .5 acres with erosion cont. material	acre	\$ 11,049.63
Heavy Use Area (561)	No roof, with curb or wall	sf	\$ 6.13
	No roof, curb or wall	sf	\$ 4.63
	Gravel only	sf	\$ 1.11
	roof for existing or new facility	sf	\$ 12.61
Irrigation System, Microirrigation (441)	Microirrigation system	acre	\$ 1,706.82
Irrigation System, Sprinkler (442)	Sprinkler Irrigation	acre	\$ 942.44
Irrigation Water Conveyance, High Pressure Underground Plastic Pipeline (430DD)	Pipeline	foot	\$ 13.43
	<= 500 feet	foot	\$ 28.98
	>= 500 feet	foot	\$ 22.26
Lined Waterway or Outlet (468)	High cost	no.	\$ 44,380.43
	Medium high cost	no.	\$ 34,459.68
	Medium cost	no.	\$ 18,220.21
	Low cost	no.	\$ 13,050.35
Obstruction Removal (500)	Rock removal on crop fields	acre	\$ 1,102.31
	Fences and walls	sf	\$ 0.14
Pest Management (595)	Beaver deceiver/pond leveler	no.	\$ 578.88
Pipeline (516)	Pipeline	foot	\$ 0.90
	Buried pipeline	foot	\$ 1.98
Pond (378)	Earthwork/Excavation	cy	\$ 8.51
Roof Runoff Structure (558)	Roof Runoff Structure	foot	\$ 28.81
Spring Development (574)	Everything excluding pump	no.	\$ 1,575.90
	Pump and hookup	no.	\$ 1,050.60
	12" to 24" culvert	foot	\$ 27.58
Stream Crossing (578)	36" to 48" culvert	foot	\$ 113.46
	Concrete boat ramp	foot	\$ 119.00
	Timber bridge	sf	\$ 51.79
	Rock ford	foot	\$ 46.50
	6' x 3' Arch culvert	no.	\$ 9,470.70
	High rehabilitation cost	foot	\$ 200.00
Stream Habitat Improvement & Management (395)	Moderate rehabilitation cost	foot	\$ 100.00
	Low rehabilitation cost	foot	\$ 75.00
	Bioengineering	foot	\$ 60.00
	Simple Instream Structure	no.	\$ 150.00
	Complex Instream Structure	no.	\$ 7,500.00
Streambank/Shoreline Prot. (580)	Streambank/Shoreline Prot.	vf-lf	\$ 10.26
Structure for Water Control (587)	Structure for Water Control	no.	\$ 1,740.43
Subsurface Drain (606)	Subsurface drain	foot	\$ 7.28
Underground Outlet (620)	Inlet	no.	\$ 1,305.86
	Pipe	foot	\$ 13.07
Use Exclusion (472)	Low-medium cost barrier	no.	\$ 389.85
	Medium-high cost barrier	no.	\$ 829.97
Waste Storage Facility (313)	No roof (>80K cf)	cf	\$ 1.36
	No roof (>10K to 80K cf - high cost)	cf	\$ 2.36
	No roof (>10K to 80K cf)	cf	\$ 1.54
	No roof (≤10K cf - high cost)	cf	\$ 3.87
	No roof (≤10K cf)	cf	\$ 2.60
	roof for existing or new facility	sf	\$ 12.61
	Drive-in cleanout structure	cf	\$ 11.38
Waste Treatment (629)	High cost system	no.	\$ 18,269.78
	Low to medium cost system	no.	\$ 7,525.20
Wastewater Treatment Strip (635)	Wastewater Treatment Strip	acre	\$ 5,253.00
Water Well (642)	Water Well	no.	\$ 4,376.05
Watering Facility (614)	insulated tank with excavation	no.	\$ 1,118.89
	tank	no.	\$ 381.46
	Pasture pump	no.	\$ 728.28
Well Decommissioning (351)	Well Decommissioning	no.	\$ 1,050.60
Wetland Enhancement (659)	Construct embankment	cy	\$ 9.97
	Microtopography construction	sf	\$ 0.25
	Native wetland plugs	no.	\$ 2.10
	Broadcast of native wetland mix	acre	\$ 1,320.60
	Ditch plug (fill and plywood sheathing)	no.	\$ 2,340.90
Wetland Restoration (657)	Native wetland plugs	no.	\$ 2.10
	Broadcast of native wetland mix	acre	\$ 1,320.60
	Earthwork (precision with mats)	cy	\$ 18.91
	Earthwork/excavation	cy	\$ 8.51
	Native wetland plugs	no.	\$ 2.10
Wetland Wildlife Habitat Management (644)	Nest boxes	no.	\$ 142.88
	Waterfowl nest platform	no.	\$ 165.99
	Broadcast of native wetland mix	acre	\$ 1,320.60

<b>Cost Data</b>							
Scenario: A travel-way for equipment and vehicles constructed as part of a conservation plan to provide a fixed route for vehicular travel for resource activities involving the management of timber, livestock, agriculture, wildlife habitat, and other conservation enterprises while protecting the soil, water, fish, wildlife, and other adjacent natural resources. This scenario assumes an 80 foot road with fabric, rip rap, excavation, hay for mulch in Hancock County.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Access Road (560)	20030220	Sep-03	80	linear foot	Hancock		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	excavator				\$ 275.00	\$ 3.44	\$ 4.17
MATERIALS	fabric	1	each	\$ 100.00	\$ 100.00	\$ 1.25	\$ 1.52
MATERIALS	rip rap	14	cyd	\$ 10.00	\$ 140.00	\$ 1.75	\$ 2.12
EQUIPMENT/ INSTALLATION	tractor	2	hr	\$ 40.00	\$ 80.00	\$ 1.00	\$ 1.21
MATERIALS	rock	6	cyd	\$ 10.00	\$ 60.00	\$ 0.75	\$ 0.91
LABOR	labor (spreading hay and seed)	4	hr	15	\$ 60.00	\$ 0.75	\$ 0.91
MATERIALS	mulch hay	5	bale	\$ 3.00	\$ 15.00	\$ 0.19	\$ 0.23
Total					\$ 730.00	\$ 9.13	\$ 11.08

Cost Data							
<p>A waste impoundment made to temporarily store wastes such as manure, wastewater, and contaminated runoff as a function of an agricultural waste management system. All of these scenarios were developed in 2006 for the 2007 Average Cost list, using data from 45 structures designed or installed throughout Maine. The size categories are based on the cubic footage of the storage volume. The cost data collected was lumped into a total cost, therefore materials, equipment/installation, labor, and mobilization costs are all included in equipment/installation. The typical length of storage is 180 to 210 days, solid/semi-solid manure. High costs can occur due to difficult site conditions (reflected in increased site preparation costs).</p>							
Scenarios 1 - 5							
Description	Year	Total Cost	Size (cubic feet)	Cost/Unit	Current (Indexed) Practice Unit Cost		
No roof (>80K cf)	2006	\$ 233,527	180,620	\$ 1.29	\$ 1.36		
No roof (>10K to 80K cf)	2006	\$ 66,836	45,538	\$ 1.47	\$ 1.54		
No roof (>10K to 80K cf - high cost)	2006	\$ 54,300	24,183	\$ 2.25	\$ 2.36		
No roof (≤10K cf)	2006	\$ 16,854	6,800	\$ 2.48	\$ 2.60		
No roof (≤10K cf - high cost)	2006	\$ 17,700	4,800	\$ 3.69	\$ 3.87		
Representative data from 32 structures designed and/or installed throughout Maine.							
Scenario 6: Roof for new or existing waste storage facility. This serves as a stand-alone scenario due to the fact that projects involve just constructing a roof over existing storage structures. Typical size is 6,300 square feet.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Waste Storage Facility (313)	none	Jan-06	6300	sf	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	All costs	1	each	\$ 75,600.00	\$ 75,600.00	\$ 12.00	\$ 12.61
Total					\$ 75,600.00	\$ 12.00	\$ 12.61
Scenario 7: Concrete drive-in cleanout structures are used for various applications in waste storage and handling system components. These are typically small structures with little storage capacity compared to a waste storage facility. Typical size might be a 10 ft. x 10ft. Bottom with 2 ft. high walls and a 8:1 slope going into the sump. There is usually a pipe outlet or notch in the back or side wall 6 inches down from the top of the wall. Materials for this typical size would be about 7 CY concrete and 13 CY gravel fill.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Waste Storage Facility (313)	none	Sep-07	240	cf	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	concrete	7	cy	\$ 250.00	\$ 1,750.00	\$ 7.29	\$ 7.66
MATERIALS	gravel	13	cy	\$ 10.00	\$ 130.00	\$ 0.54	\$ 0.57
EQUIPMENT/ INSTALLATION	site preparation with heavy machinery	8	hr	\$ 90.00	\$ 720.00	\$ 3.00	\$ 3.15
Total					\$ 2,600.00	\$ 10.83	\$ 11.38

<b>Cost Data</b>							
Scenario 1: This is a treatment component of an agricultural management system for the biological stabilization of organic material to reduce the pollution potential of organic agricultural wastes to surface and ground water. This scenario is a 9,255 square foot concrete Heavy Use Area for central/northern Maine area. This will be used as a proxy for cost for composting facility.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Composting Facility (317)	7412185A778	Dec-05	9255	sf	Aroostook (Houlton)		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	concrete	131	yard	\$ 74.00	\$ 9,694.00	\$ 1.05	\$ 1.14
MATERIALS	winter additives	131	yard	\$ 10.00	\$ 1,310.00	\$ 0.14	\$ 0.15
MATERIALS	fiber reinforcement	64	yard	\$ 7.00	\$ 448.00	\$ 0.05	\$ 0.05
MATERIALS	#4 grade 60 rebar	88	each	\$ 7.50	\$ 660.00	\$ 0.07	\$ 0.08
LABOR	labor to form place and finish				\$ 10,046.00	\$ 1.09	\$ 1.18
EQUIPMENT/ INSTALLATION	bulldozer	54	hour	\$ 50.00	\$ 2,700.00	\$ 0.29	\$ 0.32
EQUIPMENT/ INSTALLATION	skidsteer	85	hour	\$ 25.00	\$ 2,125.00	\$ 0.23	\$ 0.25
EQUIPMENT/ INSTALLATION	tractor	10	hour	\$ 14.00	\$ 140.00	\$ 0.02	\$ 0.02
EQUIPMENT/ INSTALLATION	dump truck	12.5	hour	\$ 32.00	\$ 400.00	\$ 0.04	\$ 0.05
LABOR	labor	282.5	hour	\$ 15.00	\$ 4,237.50	\$ 0.46	\$ 0.50
MATERIALS	5' X 10' sheet 10 GA wire mesh	120	each	\$ 6.52	\$ 782.40	\$ 0.08	\$ 0.09
MATERIALS	bank run gravel	492	yard	\$ 5.25	\$ 2,583.00	\$ 0.28	\$ 0.30
MATERIALS	rocks	600	yard	\$ 4.73	\$ 2,835.00	\$ 0.31	\$ 0.33
EQUIPMENT/ INSTALLATION	compactor and roller rental				\$ 452.48	\$ 0.05	\$ 0.05
MATERIALS	ready mixed concrete	9.5	yard	\$ 88.73	\$ 842.89	\$ 0.09	\$ 0.10
Total					\$ 39,256.27	\$ 4.24	\$ 4.63
Scenario 2: 2,500 sf Heavy Use Area for Southern Maine area. This will be used as a proxy for composting facility.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Composting Facility (317)	7412184A320	Nov-04	2500	sf	Cumberland		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Sand and gravel				\$ 1,008.00	\$ 0.40	\$ 0.46
MATERIALS	Unidentified line item				\$ 9,170.00	\$ 3.67	\$ 4.23
MATERIALS	Steel Company (2 invoices)				\$ 1,014.97	\$ 0.41	\$ 0.47
EQUIPMENT/ INSTALLATION	Bulldozer	10	hour	\$ 50.00	\$ 500.00	\$ 0.20	\$ 0.23
LABOR	Farm labor/construction	80	hour	\$ 15.00	\$ 1,200.00	\$ 0.48	\$ 0.55
LABOR	Farm labor/construction	16	hour	\$ 25.00	\$ 400.00	\$ 0.16	\$ 0.18
Total					\$ 13,292.97	\$ 5.32	\$ 6.13

<b>Cost Data</b>							
Scenario: The sealing and permanent closure of a water well no longer in use. This is an infrequent practice installed by Maine NRCS. This project was part of a Waste Storage Facility and Heavy Use Area installation. Quantities and input costs were not specified on the invoice, as a portion of the storage facility and heavy use area installation.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Well Decommissioning (351)	7412185A394	Feb-06		1 each	Oxford		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Site preparation				\$ 850.00	\$ 850.00	\$ 893.01
MATERIALS	Clay fill for old well				\$ 150.00	\$ 150.00	\$ 157.59
Total					\$ 1,000.00	\$ 1,000.00	\$ 1,050.60

Cost Data							
Scenario: A channel constructed across the slope generally with a supporting ridge on the lower side. This scenario is a 625 foot diversion installed in 2000 in Waldo County. Includes 3,000 lb of lime, 480 lb of fertilizer, 25 lb of conservation mix, and 56 lb of winter rye.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Diversion (362)	20000059	Sep-00	625	linear foot	Waldo		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Tractor and loader	4	hr	\$ 35.00	\$ 140.00	\$ 0.22	\$ 0.29
LABOR	labor	4	hr	\$ 15.00	\$ 60.00	\$ 0.10	\$ 0.12
EQUIPMENT/ INSTALLATION	tractor	20	hr	\$ 35.00	\$ 700.00	\$ 1.12	\$ 1.45
LABOR	labor (rocks - hand labor)	20	hr	\$ 10.00	\$ 200.00	\$ 0.32	\$ 0.41
MATERIALS	fencing	1	each	\$ 100.00	\$ 100.00	\$ 0.16	\$ 0.21
EQUIPMENT/ INSTALLATION	lime spreading	3	hr	\$ 50.00	\$ 150.00	\$ 0.24	\$ 0.31
EQUIPMENT/ INSTALLATION	spreading fertilizer and seed	2	hr	\$ 50.00	\$ 100.00	\$ 0.16	\$ 0.21
EQUIPMENT/ INSTALLATION	bulldozer	19	hr	\$ 45.00	\$ 855.00	\$ 1.37	\$ 1.77
MATERIALS	Lime (50 lb bag)	60	bag	\$ 1.69	\$ 101.40	\$ 0.16	\$ 0.21
MATERIALS	fertilizer (10-20-20) (80 lb)	6	bag	\$ 10.37	\$ 62.22	\$ 0.10	\$ 0.13
MATERIALS	conservation green 25#	1	bag	\$ 49.99	\$ 49.99	\$ 0.08	\$ 0.10
MATERIALS	winter rye 56#	1	bag	\$ 11.00	\$ 11.00	\$ 0.02	\$ 0.02
MATERIALS	Tax on materials				\$ 2.50	\$ 0.00	\$ 0.01
Total					\$ 2,532.11	\$ 4.05	\$ 5.25

Cost Data							
Scenario: A water impoundment made by excavating a pit or dugout to provide water for livestock, fish and wildlife, recreation, fire control, and to maintain or improve water quality. This scenario assumes excavation of common earth using a 1/2 CY backhoe, 2 6 CY dump trucks. Costs are from p. 424 of 2003 RSMMeans Site Work & Landscape Cost Data 2003 22nd Annual Edition. All costs were estimated on a CY basis.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Pond (378)	none	Jan-03	1	cyd	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Excavation (backhoe)	1	cy	\$ 0.99	\$ 0.99	\$ 0.99	\$ 1.20
LABOR	Excavation (backhoe)	1	cy	\$ 1.98	\$ 1.98	\$ 1.98	\$ 2.40
MOBILIZATION	Mobilization	1	cy	\$ 0.04	\$ 0.04	\$ 0.04	\$ 0.05
EQUIPMENT/ INSTALLATION	Haul earth, 6 CY dump truck	1	cy	\$ 1.75	\$ 1.75	\$ 1.75	\$ 2.12
LABOR	Haul earth, 6 CY dump truck	1	cy	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.98
LABOR	Spotter at earth fill dump or in cut	1	cy	\$ 0.62	\$ 0.62	\$ 0.62	\$ 0.75
Total					\$ 7.01	\$ 7.01	\$ 8.51
NOTE: The above applies to the following practices: Sediment Basin (350), Water & Sediment Control Basin (638)							

Cost Data							
Scenario 1: Enclosing or dividing an area of land with a suitable permanent structure that acts as a barrier to livestock, big game, or people. This scenario assumes 1,000 feet of fence installed in western Maine in 2005. Includes cedar fence posts, 12-1/2GA barb wire.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Fence (382)	7412185A266	Oct-05	1000	linear foot	Franklin		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Barb wire (12-1/2GA)	3	each	\$ 54.99	\$ 164.97	\$ 0.16	\$ 0.18
MATERIALS	fence staples	10	lb	\$ 4.00	\$ 40.00	\$ 0.04	\$ 0.04
LABOR	labor	58	hr	\$ 12.00	\$ 696.00	\$ 0.70	\$ 0.76
MATERIALS	cedar posts	60	each	\$ 3.00	\$ 180.00	\$ 0.18	\$ 0.20
MATERIALS	cedar rail	10	each	\$ 4.00	\$ 40.00	\$ 0.04	\$ 0.04
LABOR	labor (skidder)	16	hr	\$ 15.00	\$ 240.00	\$ 0.24	\$ 0.26
LABOR	labor (saw)	16	hr	\$ 15.00	\$ 240.00	\$ 0.24	\$ 0.26
EQUIPMENT/ INSTALLATION	skidder	16	hr	\$ 40.43	\$ 646.88	\$ 0.65	\$ 0.71
EQUIPMENT/ INSTALLATION	four wheeler	16	hr	\$ 24.00	\$ 384.00	\$ 0.38	\$ 0.42
Total					\$ 2,631.85	\$ 2.63	\$ 2.87
Scenario 2: 328 feet of internal sheep fencing in Hancock County. Includes labor for setup and shipping for materials.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Fence (382)	7412185A524	Jul-06	328	linear foot	Hancock		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	SC Electrostop II, 42"X164'	2	each	\$ 134.00	\$ 268.00	\$ 0.82	\$ 0.86
MOBILIZATION	Shipping for Electrostop II				\$ 33.00	\$ 0.10	\$ 0.11
MATERIALS	PowerLink 2.0	4	each	\$ 3.50	\$ 14.00	\$ 0.04	\$ 0.04
LABOR	labor	1	hr	\$ 15.00	\$ 15.00	\$ 0.05	\$ 0.05
Total					\$ 330.00	\$ 1.01	\$ 1.06

<b>Cost Data</b>							
Scenario 1: A permanent or temporary strip of bare or vegetated land planned to retard fire to reduce the spread of wildfire or contain prescribed burns. This scenario is a firebreak on blueberry cropland (10 foot wide) to contain controlled burns.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Firebreak (394)	7412184A510	Dec-04	3650	linear foot	Washington		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Installation (no detail on bill)				\$ 4,000.00	\$ 1.10	\$ 1.26
Total					\$ 4,000.00	\$ 1.10	\$ 1.26
Scenario 2: 700 foot long firebreak (25 foot wide) on forestland. Estimate roughly same unit cost as Diversion (362).							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Firebreak (394)	none	Jan-07	700	linear foot	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Heavy machinery	40	hr	\$ 85.00	\$ 3,400.00	\$ 4.86	\$ 4.95
MOBILIZATION	Transport heavy machinery	1	each	\$ 200.00	\$ 200.00	\$ 0.29	\$ 0.29
Total					\$ 3,400.00	\$ 5.14	\$ 5.25

Cost Data							
The rehabilitation / restoration of an existing or historic channel based on natural channel design (NCD) principles. This practice may include modifications in the pattern, dimension and profile of the channel and/or modifications of the floodplain to improve channel stability, aquatic habitat and channel-floodplain interactions. This practice would be used in streams having a high level of departure from targeted stream conditions.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Stream Habitat Improvement & Management (395)	none	Jan-07	1	ft	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	All costs incorporated	1	ft	\$ 200.00	\$ 200.00	\$ 200.00	\$ 200.00
					\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -
Total					\$ 200.00	\$ 200.00	\$ 200.00
The rehabilitation / restoration of an existing or historic channel based on natural channel design (NCD) principles. This practice may include modifications in the pattern, dimension and profile of the channel and/or modifications of the floodplain to improve channel stability, aquatic habitat and channel-floodplain interactions. This practice would be used in streams having a moderate level of departure from targeted stream conditions. Note: these costs are from the 2007 Connecticut NRCS WHIP Program.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Stream Habitat Improvement & Management (395)	none	Jan-07	1	ft	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	All costs incorporated	1	ft	\$ 100.00	\$ 100.00	\$ 100.00	\$ 100.00
					\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -
Total					\$ 100.00	\$ 100.00	\$ 100.00
The rehabilitation / restoration of an existing or historic channel based on natural channel design (NCD) principles. This practice may include modifications in the pattern, dimension and profile of the channel and/or modifications of the floodplain to improve channel stability, aquatic habitat and channel-floodplain interactions. This practice would be used in streams having a low level of departure from targeted stream conditions. Note: these costs are from the 2007 Connecticut NRCS WHIP Program.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Stream Habitat Improvement & Management (395)	none	Jan-07	1	ft	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	All costs incorporated	1	ft	\$ 75.00	\$ 75.00	\$ 75.00	\$ 75.00
					\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -
Total					\$ 75.00	\$ 75.00	\$ 75.00
The streambank bioengineering practice is for the installation of conifer tree revetments, coir logs, bank log cover and artificial overhanging bank.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Stream Habitat Improvement & Management (395)	none	Jan-07	1	ft	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	All costs incorporated	1	ft	\$ 60.00	\$ 60.00	\$ 60.00	\$ 60.00
					\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -
Total					\$ 60.00	\$ 60.00	\$ 60.00
The Simple Instream Structure practice is for installation of habitat enhancement features to provide velocity breaks and cover for fish, to include instream boulders, bank placed boulders, half-log structure, floating log cover, and instream log cover. None of the structures shall be placed to compromise bank stability. Boulders shall be placed either singularly, or in a random pattern of two or three. Both instream and bank placed boulders will be a minimum diameter. Bank placed boulders shall be placed at least one foot apart and may be placed at a distance equivalent to twice the average diameter of the boulder immediately upstream.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Stream Habitat Improvement & Management (395)	none	Jan-07	1	ft	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	All costs incorporated	1	ft	\$ 150.00	\$ 150.00	\$ 150.00	\$ 150.00
					\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -
Total					\$ 150.00	\$ 150.00	\$ 150.00
The Complex Instream Structure practice is for installation of habitat enhancement features to provide velocity breaks and cover for fish, create pools, and recede streambank erosion. And include constructed log jams, cross-vanes and J-hooks.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Stream Habitat Improvement & Management (395)	none	Jan-07	1	no.	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	All costs incorporated	1	each	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00
					\$ -	\$ -	\$ -
					\$ -	\$ -	\$ -
Total					\$ 7,500.00	\$ 7,500.00	\$ 7,500.00

Cost Data							
Scenario 1: Modification or removal of barriers that restrict or impede movement or migration of fish or other aquatic organisms to improve or provide upstream and downstream passage for fish and other aquatic organisms. This scenario assumes Installation of arched culvert (20' wide x 8'3.5" tall), 52 feet long. Removal of existing culvert. Data from cost estimate for actual site in Washington County. Significant site prep (seeding and mulching, erosion and sediment control, dewatering, riprap, and backfill) required during installation.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Fish Passage (396)	none	Jun-07	60	foot	Washington		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Pipe and footings	60	ft	\$ 625.00	\$ 37,500.00	\$ 625.00	\$ 637.50
EQUIPMENT/ INSTALLATION	Assembly				\$ 3,750.00	\$ 62.50	\$ 63.75
MOBILIZATION	Mobilization				\$ 2,000.00	\$ 33.33	\$ 34.00
EQUIPMENT/ INSTALLATION	Dewatering				\$ 3,500.00	\$ 58.33	\$ 59.50
EQUIPMENT/ INSTALLATION	Pipe removal/site prep				\$ 4,000.00	\$ 66.67	\$ 68.00
EQUIPMENT/ INSTALLATION	Pipe installation				\$ 3,500.00	\$ 58.33	\$ 59.50
EQUIPMENT/ INSTALLATION	Pipe backfill	250	cy	\$ 20.00	\$ 5,000.00	\$ 83.33	\$ 85.00
MATERIALS	Riprap and bed	95	cy	\$ 40.00	\$ 3,800.00	\$ 63.33	\$ 64.60
MATERIALS	Road fill	180	cy	\$ 14.00	\$ 2,520.00	\$ 42.00	\$ 42.84
EQUIPMENT/ INSTALLATION	Channel work	40	ft	\$ 25.00	\$ 1,000.00	\$ 16.67	\$ 17.00
MATERIALS	Seeding and Mulching				\$ 1,000.00	\$ 16.67	\$ 17.00
MATERIALS	E&S control				\$ 500.00	\$ 8.33	\$ 8.50
Total					\$ 68,070.00	\$ 1,134.50	\$ 1,157.19
Scenario 2: Installation of arched culvert (12' wide x 5' tall), 48 feet long. Removal of existing culvert. Data from cost estimate of actual site in Washington County. Significant site prep (seeding and mulching, erosion and sediment control, dewatering, riprap, and backfill) required during installation.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Fish Passage (396)	none	Jun-07	48	foot	Washington		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Pipe and footings	48	ft	\$ 291.67	\$ 14,000.00	\$ 291.67	\$ 297.50
EQUIPMENT/ INSTALLATION	Assembly				\$ 2,000.00	\$ 41.67	\$ 42.50
MOBILIZATION	Mobilization				\$ 2,000.00	\$ 41.67	\$ 42.50
EQUIPMENT/ INSTALLATION	Dewatering				\$ 2,000.00	\$ 41.67	\$ 42.50
EQUIPMENT/ INSTALLATION	Pipe removal/site prep				\$ 2,000.00	\$ 41.67	\$ 42.50
EQUIPMENT/ INSTALLATION	Pipe installation				\$ 2,000.00	\$ 41.67	\$ 42.50
EQUIPMENT/ INSTALLATION	Pipe backfill	110	cy	\$ 20.00	\$ 2,200.00	\$ 45.83	\$ 46.75
MATERIALS	Riprap and bed	40	cy	\$ 40.00	\$ 1,600.00	\$ 33.33	\$ 34.00
MATERIALS	Road fill	375	cy	\$ 14.00	\$ 5,250.00	\$ 109.38	\$ 111.56
EQUIPMENT/ INSTALLATION	Channel work	25	ft	\$ 25.00	\$ 625.00	\$ 13.02	\$ 13.28
MATERIALS	Seeding and Mulching				\$ 1,000.00	\$ 20.83	\$ 21.25
MATERIALS	E&S control				\$ 500.00	\$ 10.42	\$ 10.63
Total					\$ 35,175.00	\$ 732.81	\$ 747.47
Scenario 3: Alaskan Steepass. Fish ladder has to cover up to 6 vertical feet. Two gates will be required for the stop log bays for water level control, attraction flow control, and downstream fish passage. Gates will be similar to 60" x 60" sluice gate, heavy duty, self-contained with crank operation gate (cost from RS Means Heavy Construction Cost Data 2007, supplied by Kleinschmidt engineer Matt Bernier).							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Fish Passage (396)	none	Jun-07	1	each	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Fish ladder construction	6	vf	\$ 16,875.00	\$ 101,250.00	\$ 101,250.00	\$ 103,275.00
MATERIALS	Gate construction	2	each	\$ 31,200.00	\$ 62,400.00	\$ 62,400.00	\$ 63,648.00
MATERIALS	Rip rap	100	cyd	\$ 52.50	\$ 5,250.00	\$ 5,250.00	\$ 5,355.00
Total					\$ 168,900.00	\$ 168,900.00	\$ 172,278.00

Cost Data							
A structure used to control the grade and head cutting in natural or artificial channels for the purposes of: stabilizing the grade and controlling erosion in natural or artificial channels; preventing the formation or advance of gullies, and; to enhance environmental quality and reduce pollution hazards. This specific scenario is a rock chute that was installed along with a stone waterway.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Grade Stabilization Structure (410)	741218070BE	Jan-07	1	no.	Aroostook (PI)		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Geotextile fabric	376	sy	\$ 1.10	\$ 413.60	\$ 413.60	\$ 421.87
MATERIALS	Stone riprap	161	cy	\$ 36.00	\$ 5,796.00	\$5,796.00	\$5,911.92
EQUIPMENT/ INSTALLATION	Excavator	16.2	hr	\$ 125.00	\$ 2,025.00	\$2,025.00	\$2,065.50
Total					\$ 8,234.60	\$8,234.60	\$8,399.29

<b>Cost Data</b>							
Scenario 1: A natural or constructed channel that is shaped or graded to required dimensions and established with suitable vegetation. This practice may be applied as part of a conservation management system to support one or more of the following purposes: convey runoff from terraces, diversions, or other water concentrations without causing erosion or flooding, to reduce gully erosion, to protect/improve water quality. This scenario assumes 0.4 acres of grassed waterway in Aroostook County installed in 2002. Average width of grassed waterways 30 feet. Includes 50 lbs of conservation mix, site prep with harrow and bulldozer, rocks removed from site.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Grassed Waterway (412)	20010132	Aug-02	0.4	acre	Aroostook (FK)		
Cost Category	Item	No. of Units	Unit	Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	seed (conservation mix)	50	lb	\$ 1.20	\$ 60.00	\$ 150.00	\$ 186.66
EQUIPMENT/ INSTALLATION	bulldozer	35	hr	\$ 45.00	\$ 1,575.00	\$ 3,937.50	\$ 4,899.83
EQUIPMENT/ INSTALLATION	power harrow	4	hr	\$ 35.00	\$ 140.00	\$ 350.00	\$ 435.54
EQUIPMENT/ INSTALLATION	tractor and loader	2	hr	\$ 35.00	\$ 70.00	\$ 175.00	\$ 217.77
LABOR	labor (picking rocks)	20	hr	\$ 8.00	\$ 160.00	\$ 400.00	\$ 497.76
Total					\$ 2,005.00	\$ 5,012.50	\$ 6,237.56
Scenario 2: 0.1 acres of grassed waterway in Cumberland County installed in 2004. Average width of grassed waterways are 30 feet. Site prep with excavator and bulldozer. Includes mulching and seeding.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Grassed Waterway (412)	7412183A049A	Nov-04	0.1	acre	Cumberland		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	excavator	4	hr	\$ 100.00	\$ 400.00	\$ 4,000.00	\$ 4,610.40
EQUIPMENT/ INSTALLATION	bulldozer	4	hr	\$ 75.00	\$ 300.00	\$ 3,000.00	\$ 3,457.80
LABOR	labor (mulching and seeding)	4	hr	\$ 15.00	\$ 60.00	\$ 600.00	\$ 691.56
MATERIALS	hay bales	8	bale	\$ 2.00	\$ 16.00	\$ 160.00	\$ 184.42
Total					\$ 776.00	\$ 7,760.00	\$ 8,944.18
Scenario 3: Grassed waterway >= .5 acres with Temporary Erosion Control Material. Curlex erosion control blanket.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Grassed Waterway (412)	7412186A027	Aug-06	1.9	acre	Aroostook (FK)		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Curlex eros. cont. blanket + staples						\$ 1,364.51
MOBILIZATION	Freight charge for curlex/staples						\$ 110.59
EQUIPMENT/ INSTALLATION	Labor and mach. cost						\$ 630.36
MATERIALS	seed (conservation mix)						\$ 186.66
EQUIPMENT/ INSTALLATION	bulldozer						\$ 4,899.83
EQUIPMENT/ INSTALLATION	power harrow						\$ 435.54
EQUIPMENT/ INSTALLATION	tractor and loader						\$ 217.77
LABOR	labor (picking rocks)						\$ 497.76
Total							\$ 8,343.01
Scenario 4: Grassed waterway < .5 acres with temporary erosion control material. Curlex erosion control blanket.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Grassed Waterway (412)	7412186A027	Aug-06	1.9	acre	Aroostook (FK)		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Curlex eros. cont. blanket + staples						\$ 1,364.51
MOBILIZATION	Freight charge for curlex/staples						\$ 110.59
EQUIPMENT/ INSTALLATION	Labor and mach. cost						\$ 630.36
EQUIPMENT/ INSTALLATION	excavator						\$ 4,610.40
EQUIPMENT/ INSTALLATION	bulldozer						\$ 3,457.80
LABOR	labor (mulching and seeding)						\$ 691.56
MATERIALS	hay bales						\$ 184.42
Total							\$ 11,049.63

<b>Cost Data</b>							
Scenario: A pipeline and appurtenances installed in an irrigation system. This applies to underground thermoplastic pipelines ranging from 1/2 in. to 18 in. in diameter that are closed to the atmosphere and that are subject to internal pressure of 80 lb/in <sup>2</sup> or greater. This scenario assumes 2,000 feet of 8" 2000 PSI pipe installed, with risers and elbows. Excavator, bulldozer, and loader/backhoe used in site prep.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Irrigation Water Conveyance, High Pressure Underground Plastic Pipeline (430DD)	7612185A696	May-06	2000	feet	Penobscot		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	8" 2000 PSI pipe	2000	feet	\$ 5.60	\$ 11,200.00	\$ 5.60	\$ 5.88
EQUIPMENT/ INSTALLATION	Excavator	33	hr	\$ 103.00	\$ 3,399.00	\$ 1.70	\$ 1.79
EQUIPMENT/ INSTALLATION	Case 350 bulldozer	30	hr	\$ 60.00	\$ 1,800.00	\$ 0.90	\$ 0.95
EQUIPMENT/ INSTALLATION	Loader/backhoe	40	hr	\$ 60.00	\$ 2,400.00	\$ 1.20	\$ 1.26
EQUIPMENT/ INSTALLATION	truck and pipe trailer	38	hr	\$ 50.00	\$ 1,900.00	\$ 0.95	\$ 1.00
LABOR	labor (3 men x 40hr & 1 x 34hr)	154	hr	\$ 20.00	\$ 3,080.00	\$ 1.54	\$ 1.62
EQUIPMENT/ INSTALLATION	forklift (loading/unloading pipe)	5	hr	\$ 40.00	\$ 200.00	\$ 0.10	\$ 0.11
MATERIALS	risers	5	each	\$ 160.00	\$ 800.00	\$ 0.40	\$ 0.42
MATERIALS	z pipe	1	each	\$ 300.00	\$ 300.00	\$ 0.15	\$ 0.16
MATERIALS	45 degree elbows	2	each	\$ 100.00	\$ 200.00	\$ 0.10	\$ 0.11
MATERIALS	concrete	3	cy	\$ 93.33	\$ 280.00	\$ 0.14	\$ 0.15
Total					\$ 25,559.00	\$ 12.78	\$ 13.43

<b>Cost Data</b>							
Scenario: An irrigation system for distribution of water directly to the plant root zone by means of surface or subsurface applicators. This scenario was reproduced from KSU extention bulletin MF-836 due to lack of local data on this practice. While there should be differences between systems in Kansas and Maine, the total final per acre cost was similar, so this detailed information is used. This has not been a common practice installed by NRCS in Maine.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Irrigation System, Microirrigation (441)	none	Oct-06	155	acres	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	well				\$ 27,700.00	\$ 178.71	\$ 187.75
MATERIALS	pump and gearhead				\$ 22,000.00	\$ 141.94	\$ 149.12
MATERIALS	power unit				\$ 10,000.00	\$ 64.52	\$ 67.78
MATERIALS	water meter				\$ 1,000.00	\$ 6.45	\$ 6.78
MATERIALS	well connectors				\$ 750.00	\$ 4.84	\$ 5.08
MATERIALS	10" mainline pipe	2120	ft	\$ 2.60	\$ 5,512.00	\$ 35.56	\$ 37.36
MATERIALS	8" submain pipe	2880	ft	\$ 2.53	\$ 7,286.40	\$ 47.01	\$ 49.39
MATERIALS	3" submain pipe	2760	ft	\$ 0.65	\$ 1,794.00	\$ 11.57	\$ 12.16
MATERIALS	well tie assembly	1	each	\$ 1,997.00	\$ 1,997.00	\$ 12.88	\$ 13.54
MATERIALS	8" meter	1	each	\$ 1,126.00	\$ 1,126.00	\$ 7.26	\$ 7.63
MATERIALS	8" chem flap valve	1	each	\$ 470.00	\$ 470.00	\$ 3.03	\$ 3.19
MATERIALS	filter	1	each	\$ 5,461.00	\$ 5,461.00	\$ 35.23	\$ 37.02
MATERIALS	filter assembly	1	each	\$ 1,285.00	\$ 1,285.00	\$ 8.29	\$ 8.71
MATERIALS	zone valves	5	each	\$ 2,532.00	\$ 12,660.00	\$ 81.68	\$ 85.81
MATERIALS	mainline flush valves	2	each	\$ 735.00	\$ 1,470.00	\$ 9.48	\$ 9.96
MATERIALS	submain flush valves	10	each	\$ 1,380.00	\$ 13,800.00	\$ 89.03	\$ 93.54
MATERIALS	flushline valves	10	each	\$ 774.00	\$ 7,740.00	\$ 49.94	\$ 52.46
MATERIALS	miscellaneous fittings	1	each	\$ 762.00	\$ 762.00	\$ 4.92	\$ 5.16
MATERIALS	injector with assembly	1			\$ 376.00	\$ 2.43	\$ 2.55
MATERIALS	155 acres 1 <sup>3/8</sup> " tape	1			\$ 102,372.00	\$ 660.46	\$ 693.88
MATERIALS	tape connections	1			\$ 9,455.00	\$ 61.00	\$ 64.09
MATERIALS	glue and primer	1			\$ 1,917.00	\$ 12.37	\$ 12.99
EQUIPMENT/ INSTALLATION	tractor, tape plow rental	155	acre	\$ 31.50	\$ 4,882.50	\$ 31.50	\$ 33.09
LABOR	labor	1000	hr	\$ 10.00	\$ 10,000.00	\$ 64.52	\$ 67.78
Total					\$ 251,815.90	\$ 1,624.62	\$ 1,706.82

<b>Cost Data</b>							
Scenario: Planned irrigation system in which all necessary facilities are installed for efficiently applying water by means of perforated pipes or nozzles operated under pressure. The purpose is to efficiently and uniformly apply irrigation water to maintain adequate soil moisture for optimum plant growth without causing excessive water loss, erosion, or reduced water quality. Data from invoice from Penobscot County, 2003. Two 157 foot spans, three 179 foot spans, one 44 foot end boom = total length 895 feet.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Irrigation System, Sprinkler (442)	20030470	Mar-03	70	acre	Penobscot		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	All materials exc. Pump				\$ 50,761.44	\$ 725.16	\$ 835.82
MOBILIZATION	Freight				\$ 2,000.00	\$ 28.57	\$ 32.93
LABOR	Assembly	895	foot	\$ 5.00	\$ 4,475.00	\$ 63.93	\$ 73.68
Total					\$ 57,236.44	\$ 817.66	\$ 942.44

Cost Data							
Scenario 1: A waterway or outlet having an erosion-resistant lining of concrete, stone, synthetic turf reinforcement fabrics, or other permanent material. This scenario assumes a 200 foot rock waterway with 2 culverts (18" and 12"), fabric, and mulch in Oxford County. Note that culvert costs are excluded as these are now included under Stream Crossing standard (578). Includes 112 cy of gravel and 38 cy of riprap.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Lined Waterway or Outlet (468)	7412184A406	Nov-04	200	linear foot	Oxford		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	excavator	22	hr	\$ 85.00	\$ 1,870.00	\$ 9.35	\$ 10.78
EQUIPMENT/ INSTALLATION	bulldozer	10	hr	\$ 60.00	\$ 600.00	\$ 3.00	\$ 3.46
LABOR	labor	4	hr	\$ 25.00	\$ 100.00	\$ 0.50	\$ 0.58
MATERIALS	hay bales	30	bale	\$ 5.00	\$ 150.00	\$ 0.75	\$ 0.86
EQUIPMENT/ INSTALLATION	hay mulcher	1	day	\$ 150.00	\$ 150.00	\$ 0.75	\$ 0.86
EQUIPMENT/ INSTALLATION	dump truck	13	hr	\$ 50.00	\$ 650.00	\$ 3.25	\$ 3.75
EQUIPMENT/ INSTALLATION	roller	1	hr	\$ 60.00	\$ 60.00	\$ 0.30	\$ 0.35
MATERIALS	gravel (bank run)	70	cyd	\$ 4.50	\$ 315.00	\$ 1.58	\$ 1.82
MATERIALS	gravel (3/4" crushed)	42	cyd	\$ 9.50	\$ 399.00	\$ 2.00	\$ 2.30
EQUIPMENT/ INSTALLATION	tractor and 35 ton trailer	2	hr	\$ 65.00	\$ 130.00	\$ 0.65	\$ 0.75
MATERIALS	rip rap	38	cyd	\$ 12.50	\$ 475.00	\$ 2.38	\$ 2.74
MATERIALS	fabric	1	each	\$ 100.00	\$ 100.00	\$ 0.50	\$ 0.58
MATERIALS	fabric	1	each	\$ 30.00	\$ 30.00	\$ 0.15	\$ 0.17
Total					\$ 5,029.00	\$ 25.15	\$ 28.98
Scenario 2: 675 foot stone waterway, no culverts or mulching. 550 cy of stone, excavator for site prep. Original bill had unit cost of \$2.25/cyd, which is not typical cost. Accounting for trucking (already included in other line items, use \$10/cyd as more typical cost for stone).							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Lined Waterway or Outlet (468)	7412181A027	Oct-04	675	linear foot	Aroostook (FK)		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	dump truck	27	hr	\$ 40.00	\$ 1,080.00	\$ 1.60	\$ 1.84
EQUIPMENT/ INSTALLATION	loader	24	hr	\$ 45.00	\$ 1,080.00	\$ 1.60	\$ 1.84
EQUIPMENT/ INSTALLATION	truck	2.5	hr	\$ 50.00	\$ 125.00	\$ 0.19	\$ 0.21
EQUIPMENT/ INSTALLATION	loader	29.5	hr	\$ 55.00	\$ 1,622.50	\$ 2.40	\$ 2.77
EQUIPMENT/ INSTALLATION	dump truck	16	hr	\$ 50.00	\$ 800.00	\$ 1.19	\$ 1.37
EQUIPMENT/ INSTALLATION	truck and trailer	1	hr	\$ 60.00	\$ 60.00	\$ 0.09	\$ 0.10
EQUIPMENT/ INSTALLATION	excavator	7.5	hr	\$ 85.00	\$ 637.50	\$ 0.94	\$ 1.09
EQUIPMENT/ INSTALLATION	truck	6.25	hr	\$ 55.00	\$ 343.75	\$ 0.51	\$ 0.59
EQUIPMENT/ INSTALLATION	dump truck	7	hr	\$ 50.00	\$ 350.00	\$ 0.52	\$ 0.60
LABOR	labor (rock picking and hauling)	36	hr	\$ 40.00	\$ 1,440.00	\$ 2.13	\$ 2.46
MATERIALS	stone (estimated unit cost @\$10)	550	cyd	\$ 10.00	\$ 5,500.00	\$ 8.15	\$ 9.39
Total					\$ 13,038.75	\$ 19.32	\$ 22.26

Cost Data							
Scenario 1: The temporary or permanent exclusion of animals, people or vehicles from an area to: prevent, restrict, or control access to an area; maintain or improve the quantity and quality of natural resources; minimize liability and human health concerns. This scenario consists of the placement of logs with a tractor in front of trails to exclude ATVs or other traffic. Figures provided by southern Maine nature preserve.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Use Exclusion (472)	none	Jan-06	1	no.	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	tractor	3	hr	\$ 32.69	\$ 98.07	\$ 98.07	\$ 103.03
LABOR	Labor	3	hr	\$ 16.00	\$ 48.00	\$ 48.00	\$ 50.43
MATERIALS	logs	3	each	\$ 75.00	\$ 225.00	\$ 225.00	\$ 236.39
					\$ -	\$ -	\$ -
Total					\$ 371.07	\$ 371.07	\$ 389.85
Scenario 2: Trail barrier. 10 medium size rocks trucked in and placed with a dozer. Figures provided by southern Maine nature preserve.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Use Exclusion (472)	none	Jan-06	1	no.	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Medium size boulders	10	each	\$ 50.00	\$ 500.00	\$ 500.00	\$ 525.30
EQUIPMENT/ INSTALLATION	Bulldozer	2	hr	\$ 70.00	\$ 140.00	\$ 140.00	\$ 147.08
MOBILIZATION	Mobilize bulldozer	1	each	\$ 150.00	\$ 150.00	\$ 150.00	\$ 157.59
					\$ -	\$ -	\$ -
Total					\$ 790.00	\$ 790.00	\$ 829.97

<b>Cost Data</b>							
Scenario 1: Removal and disposal of unwanted, unsightly or hazardous buildings, structures, vegetation, landscape features, and other materials. Obstruction removal on blueberry land applies to intensively managed fields on which a crop was harvested two of the past five years. Rocks and debris shall be removed, mounds leveled, and depressions filled to permit trafficability on at least 75 percent of the area treated. Irregularities in the land surface shall be removed to the extent necessary for flail pruning of the blueberry stems. This scenario is 0.5 acres of blueberry cropland in Hancock County.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Obstruction Removal (500)	7412183A070	Oct-05	0.5	acre	Hancock		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	equipment (contractor)	3	hr	\$ 100.00	\$ 300.00	\$ 600.00	\$ 654.84
EQUIPMENT/ INSTALLATION	tractor and operator	4	hr	\$ 40.00	\$ 160.00	\$ 320.00	\$ 349.25
LABOR	landowners labor	3	hr	\$ 15.00	\$ 45.00	\$ 90.00	\$ 98.23
Total					\$ 505.00	\$ 1,010.00	\$ 1,102.31
Scenario 2: Removal of a fencerow for the purpose of farming on the contour or other conservation practice.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Obstruction Removal (500)	7412184A426	10/20/05	43560	sf	Penobscot		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Equipment and labor				\$ 5,390.79	\$ 0.12	\$ 0.14
Total					\$ 5,390.79	\$ 0.12	\$ 0.14

Cost Data							
Scenario 1: Pipeline having an inside diameter of 8 inches or less for the purpose of conveying water from a source of supply to points of use for livestock, wildlife, or recreation. This scenario assumes 500 feet of 1" pipe, (160 lb.) in 5 100 foot sections.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Pipeline (516)	none	Jan-06	500	feet	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	100' of 1" pipe (160 lb)	5	each	\$ 68.88	\$ 344.40	\$ 0.69	\$ 0.72
MATERIALS	Fittings (estimate 10% of pipe)				\$ 34.44	\$ 0.07	\$ 0.07
LABOR	Labor	3	hr	\$ 16.00	\$ 48.00	\$ 0.10	\$ 0.10
					\$ -	\$ -	\$ -
Total					\$ 426.84	\$ 0.85	\$ 0.90
Scenario 2: This scenario assumes 500 feet of 1" pipe, (160 lb.) in 5 100 foot sections, buried with small excavator.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Pipeline (516)	none	Jan-06	500	feet	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	100' of 1" pipe (160 lb)	5	each	\$ 68.88	\$ 344.40	\$ 0.69	\$ 0.72
MATERIALS	Fittings (estimate 10% of pipe)				\$ 34.44	\$ 0.07	\$ 0.07
LABOR	Labor	3	hr	\$ 16.00	\$ 48.00	\$ 0.10	\$ 0.10
MOBILIZATION	Excavator	1	each	\$ 175.00	\$ 175.00	\$ 0.35	\$ 0.37
EQUIPMENT/ INSTALLATION	Excavator	4	hr	\$ 85.00	\$ 340.00	\$ 0.68	\$ 0.71
Total					\$ 941.84	\$ 1.88	\$ 1.98

<b>Cost Data</b>							
Scenario: Structures that collect, control, and transport precipitation from roofs to: improve water quality, reduce soil erosion, increase infiltration, protect structures, increase water quantity. This scenario assumes 115 feet of pipe.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Roof Runoff Structure (558)	7412184A328	Nov-04	115.1	feet	Franklin		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
LABOR	landowner labor	21.5	hr	\$ 12.00	\$ 258.00	\$ 2.24	\$ 2.58
EQUIPMENT/ INSTALLATION	tractor backhoe (hired)				\$ 1,147.50	\$ 9.97	\$ 11.49
EQUIPMENT/ INSTALLATION	tractor (65 HP)	14.5	hr	\$ 49.07	\$ 711.52	\$ 6.18	\$ 7.13
MATERIALS	pipe, lumber				\$ 177.00	\$ 1.54	\$ 1.77
MATERIALS	pipe, lumber, cement				\$ 329.36	\$ 2.86	\$ 3.30
MATERIALS	stone and gravel				\$ 254.00	\$ 2.21	\$ 2.54
Total					\$ 2,877.38	\$ 25.00	\$ 28.81

Cost Data							
Scenario 1: The stabilization of areas frequently and intensively used by people, animals or vehicles by establishing vegetative cover, by surfacing with suitable materials, and/or by installing needed structures. This scenario is a 9,255 sf concrete Heavy Use Area for central/northern Maine area. Includes gravel, rebar, wire mesh, and concrete. No curb or wall.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Heavy Use Area (561)	7412185A778	Dec-05	9255	sf	Aroostook (Houlton)		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	concrete	131	yard	\$ 74.00	\$ 9,694.00	\$ 1.05	\$ 1.14
MATERIALS	winter additives	131	yard	\$ 10.00	\$ 1,310.00	\$ 0.14	\$ 0.15
MATERIALS	fiber reinforcement	64	yard	\$ 7.00	\$ 448.00	\$ 0.05	\$ 0.05
MATERIALS	#4 grade 60 rebar	88	each	\$ 7.50	\$ 660.00	\$ 0.07	\$ 0.08
LABOR	labor to form place and finish				\$ 10,046.00	\$ 1.09	\$ 1.18
EQUIPMENT/ INSTALLATION	bulldozer	54	hour	\$ 50.00	\$ 2,700.00	\$ 0.29	\$ 0.32
EQUIPMENT/ INSTALLATION	skidsteer	85	hour	\$ 25.00	\$ 2,125.00	\$ 0.23	\$ 0.25
EQUIPMENT/ INSTALLATION	tractor	10	hour	\$ 14.00	\$ 140.00	\$ 0.02	\$ 0.02
EQUIPMENT/ INSTALLATION	dump truck	12.5	hour	\$ 32.00	\$ 400.00	\$ 0.04	\$ 0.05
LABOR	labor	282.5	hour	\$ 15.00	\$ 4,237.50	\$ 0.46	\$ 0.50
MATERIALS	5' X 10' sheet 10 GA wire mesh	120	each	\$ 6.52	\$ 782.40	\$ 0.08	\$ 0.09
MATERIALS	bank run gravel	492	yard	\$ 5.25	\$ 2,583.00	\$ 0.28	\$ 0.30
MATERIALS	rocks	600	yard	\$ 4.73	\$ 2,835.00	\$ 0.31	\$ 0.33
EQUIPMENT/ INSTALLATION	compactor and roller rental				\$ 452.48	\$ 0.05	\$ 0.05
MATERIALS	ready mixed concrete	9.5	yard	\$ 88.73	\$ 842.89	\$ 0.09	\$ 0.10
Total					\$ 39,256.27	\$ 4.24	\$ 4.63
Scenario 2: 2,500 sf Heavy Use Area for Southern Maine area. Includes concrete curb, sand and gravel, steel.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Heavy Use Area (561)	7412184A320	Nov-04	2500	sf	Cumberland		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Sand and gravel				\$ 1,008.00	\$ 0.40	\$ 0.46
MATERIALS	Unidentified line item				\$ 9,170.00	\$ 3.67	\$ 4.23
MATERIALS	Steel Company (2 invoices)				\$ 1,014.97	\$ 0.41	\$ 0.47
EQUIPMENT/ INSTALLATION	Bulldozer	10	hour	\$ 50.00	\$ 500.00	\$ 0.20	\$ 0.23
LABOR	Farm labor/construction	80	hour	\$ 15.00	\$ 1,200.00	\$ 0.48	\$ 0.55
LABOR	Farm labor/construction	16	hour	\$ 25.00	\$ 400.00	\$ 0.16	\$ 0.18
Total					\$ 13,292.97	\$ 5.32	\$ 6.13
Scenario 3: Large size heavy use area - gravel and sand, concrete blocks.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Heavy Use Area (561)	7412185A179	Jul-05	20000	sf	Waldo		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Screened sand	16	cy	\$ 7.50	\$ 120.00	\$ 0.01	\$ 0.01
MATERIALS	6" Minus gravel	1316	cy	\$ 7.25	\$ 9,541.00	\$ 0.48	\$ 0.52
LABOR	Labor	7	hr	\$ 20.00	\$ 140.00	\$ 0.01	\$ 0.01
EQUIPMENT/ INSTALLATION	230LC Excavator	21	hr	\$ 125.00	\$ 2,625.00	\$ 0.13	\$ 0.14
EQUIPMENT/ INSTALLATION	110 JD Excavator	20	hr	\$ 95.00	\$ 1,900.00	\$ 0.10	\$ 0.10
EQUIPMENT/ INSTALLATION	Tri-axle truck	32	hr	\$ 55.00	\$ 1,760.00	\$ 0.09	\$ 0.10
EQUIPMENT/ INSTALLATION	450 bulldozer	31.75	hr	\$ 70.00	\$ 2,222.50	\$ 0.11	\$ 0.12
EQUIPMENT/ INSTALLATION	Roller compactor	2	hr	\$ 68.00	\$ 136.00	\$ 0.01	\$ 0.01
EQUIPMENT/ INSTALLATION	Truck	8.5	hr	\$ 45.00	\$ 382.50	\$ 0.02	\$ 0.02
MATERIALS	2x2x3 cement blocks	98	each	\$ 10.00	\$ 980.00	\$ 0.05	\$ 0.05
MATERIALS	Delivery of blocks	7	trips	\$ 50.00	\$ 350.00	\$ 0.02	\$ 0.02
LABOR	labor setting/placing blocks	24	hr	\$ 10.00	\$ 240.00	\$ 0.01	\$ 0.01
Total					\$ 20,397.00	\$ 1.02	\$ 1.11

<b>Cost Data</b>							
Scenario 1: Developed at AC cost list meeting August 2006 - all work excluding pump							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Spring Development (574)	none	Jan-06	1	each	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MOBILIZATION	Excavator	1	each	\$ 200.00	\$ 200.00	\$ 200.00	\$ 210.12
EQUIPMENT/ INSTALLATION	Excavator	8	hr	\$ 100.00	\$ 800.00	\$ 800.00	\$ 840.48
MATERIALS	Tile and stone				\$ 500.00	\$ 500.00	\$ 525.30
Total					\$ 1,500.00	\$ 1,500.00	\$ 1,575.90
Scenario 2: Developed at AC cost list meeting August 2006 - estimate of pump cost, including electric hookup							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Spring Development (574)	none	Jan-06	1	each	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Pump and hookup cost	1	each	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,050.60
Total					\$ 1,000.00	\$ 1,000.00	\$ 1,050.60

Cost Data							
Scenario: Established lane that facilitates animal movement for the purposes of providing or improving access to forage, water, working/handling facilities, and shelter, improving grazing efficiency and distribution, and protecting ecologically sensitive, erosive and/or potentially erosive sites. This scenario assumes a 400 foot trail with gravel and sand.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Animal Trails & Walkways (575)	20020163	Aug-03	400	linear foot	Franklin		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Sand (washed)	12	cyd	\$ 5.31	\$ 63.72	\$ 0.16	\$ 0.19
MATERIALS	Gravel (bank)	60	cyd	\$ 5.10	\$ 306.00	\$ 0.77	\$ 0.93
MATERIALS	Sand (bank)	12	cyd	\$ 4.50	\$ 54.00	\$ 0.14	\$ 0.16
MATERIALS	Gravel (1 <sup>1/4</sup> )	24	cyd	\$ 6.68	\$ 160.32	\$ 0.40	\$ 0.49
MATERIALS	gravel	94	cyd	\$ 5.10	\$ 479.40	\$ 1.20	\$ 1.45
MATERIALS	Sand	12	cyd	\$ 5.10	\$ 61.20	\$ 0.15	\$ 0.19
LABOR	Labor	23	hr	\$ 10.00	\$ 230.00	\$ 0.58	\$ 0.70
LABOR	Labor	21.5	hr	\$ 5.25	\$ 112.88	\$ 0.28	\$ 0.34
EQUIPMENT/ INSTALLATION	excavator	30.5	hr	\$ 63.40	\$ 1,933.70	\$ 4.83	\$ 5.87
EQUIPMENT/ INSTALLATION	dump truck 14 yards	12.5	hr	\$ 42.83	\$ 535.38	\$ 1.34	\$ 1.62
EQUIPMENT/ INSTALLATION	payloader	4	hr	\$ 58.76	\$ 235.04	\$ 0.59	\$ 0.71
EQUIPMENT/ INSTALLATION	dump truck 8 yards	3	hr	\$ 33.59	\$ 100.77	\$ 0.25	\$ 0.31
MATERIALS	bale of hay (round)	2	bale	\$ 10.00	\$ 20.00	\$ 0.05	\$ 0.06
MATERIALS	grass	5	lb	\$ 4.00	\$ 20.00	\$ 0.05	\$ 0.06
MATERIALS	fence post	9	post	\$ 1.50	\$ 13.50	\$ 0.03	\$ 0.04
EQUIPMENT/ INSTALLATION	tractor 65 hp	8.5	hr	\$ 32.90	\$ 279.65	\$ 0.70	\$ 0.85
LABOR	Labor	6	hr	\$ 7.00	\$ 42.00	\$ 0.11	\$ 0.13
Total					\$ 4,647.55	\$ 11.62	\$ 14.10

Cost Data							
Scenario 1: A stabilized area or structure constructed across a stream to provide a travel way for people, livestock, equipment, or vehicles. This scenario is a wooden bridge with gravel and riprap. Unit is square feet (area of decking - 14.2' x 20')							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Stream Crossing (578)	7412186A194	Jan-06	284	square foot	Franklin		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	All materials and labor				\$ 14,000.00	\$ 49.30	\$ 51.79
					\$ -	\$ -	\$ -
Total					\$ 14,000.00	\$ 49.30	\$ 51.79
Scenario 2: Concrete Boat Ramp - 50 10' long 15" x 6" concrete panels covering a linear distance of 75'. This data is from a case study done for a project in Waldo County in 2001. It is in the Maine eFOTG under section V.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Stream Crossing (578)	none	Jan-01	75	linear foot	Waldo		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	10' x 15" x 6" concrete panels	50	each	\$ 100.00	\$ 5,000.00	\$ 66.67	\$ 85.00
MATERIALS	Fence, gravel, other materials				\$ 2,000.00	\$ 26.67	\$ 34.00
					\$ -	\$ -	\$ -
Total					\$ 7,000.00	\$ 93.33	\$ 119.00
Scenario 3: Small culvert for access road or forest trail, 12" to 24" in diameter, ADS N-12 smooth interior PE pipe, 20 foot length. Cost is the average of 12", 15", 18", and 24" diameter pipes.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Stream Crossing (578)	none	Jan-06	20	linear foot	All		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	ADS N-12 Smooth interior PE pipe	1	each	\$ 262.50	\$ 262.50	\$ 13.13	\$ 13.79
EQUIPMENT/ INSTALLATION	installation of pipe (engineers estimate)	1	each	\$ 262.50	\$ 262.50	\$ 13.13	\$ 13.79
					\$ -	\$ -	\$ -
Total					\$ 525.00	\$ 26.25	\$ 27.58
Scenario 4: Large culvert for access road or forest trail, 36" to 48" in diameter, ADS N-12 smooth interior PE pipe, 20 foot length. Cost is the average of 36" and 48" diameter pipes.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Stream Crossing (578)	none	Jan-06	20	linear foot	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	ADS N-12 Smooth interior PE pipe	1	each	\$ 1,080.00	\$ 1,080.00	\$ 54.00	\$ 56.73
EQUIPMENT/ INSTALLATION	installation of pipe (engineers estimate)	1	each	\$ 1,080.00	\$ 1,080.00	\$ 54.00	\$ 56.73
					\$ -	\$ -	\$ -
Total					\$ 2,160.00	\$ 108.00	\$ 113.46
Scenario 5: Rock ford, Assuming a 12 ft. wide rock crossing with rock 2 ft. thick and 6 inches of bedding would be about 1 CY of rock and 0.25 CY of gravel bedding/ft of ramp. Estimate provided by state engineer 9/13/07							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Stream Crossing (578)	none	Sep-07	1	linear foot	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	rock, installed	1	cy	\$ 35.00	\$ 35.00	\$ 35.00	\$ 35.00
MATERIALS	gravel, installed	0.25	cy	\$ 10.00	\$ 2.50	\$ 2.50	\$ 2.50
EQUIPMENT/ INSTALLATION	site prep with heavy machinery	12	sf	\$ 0.75	\$ 9.00	\$ 9.00	\$ 9.00
Total					\$ 46.50	\$ 46.50	\$ 46.50
Scenario 6: 6' arch structure, open bottom with overflow, 34 foot length. Data provided from engineering cost estimate for specific project, dated 2/20/07.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Stream Crossing (578)	none	Feb-07	1	no.	Aroostook (FK)		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	E&S control, stream bypass	1	job	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 1,530.00
EQUIPMENT/ INSTALLATION	Earth excavation	120	cy	\$ 8.00	\$ 960.00	\$ 960.00	\$ 979.20
MATERIALS	Gravel	130	cy	\$ 14.00	\$ 1,820.00	\$ 1,820.00	\$ 1,856.40
MATERIALS	Arch structure, 6' x 3'	34	lf	\$ 120.00	\$ 4,080.00	\$ 4,080.00	\$ 4,161.60
MATERIALS	Rock overflow	25	cy	\$ 35.00	\$ 875.00	\$ 875.00	\$ 892.50
EQUIPMENT/ INSTALLATION	Seeding	1	MSF	\$ 50.00	\$ 50.00	\$ 50.00	\$ 51.00
Total					\$ 9,285.00	\$ 9,285.00	\$ 9,470.70

<b>Cost Data</b>							
Scenario: Treatment(s) used to stabilize and protect banks of streams or constructed channels, and shorelines of lakes, reservoirs, or estuaries. This scenario assumes gravel and riprap only. Unit is vertical foot-linear foot.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Streambank/Shoreline Prot. (580)	7412182A085A	Oct-04	3150	vf-lf	Oxford		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	gravel (on site)	375	cyd	\$ 10.00	\$ 3,750.00	\$ 1.19	\$ 1.37
EQUIPMENT/ INSTALLATION	rip rap in place	350	foot	\$ 48.57	\$ 17,000.00	\$ 5.40	\$ 6.22
EQUIPMENT/ INSTALLATION	rip rap in place	150	foot	\$ 48.57	\$ 7,285.50	\$ 2.31	\$ 2.67
Total					\$ 28,035.50	\$ 8.90	\$ 10.26

Cost Data							
Scenario: A structure in a drainage system that conveys water, controls the direction or rate of flow, or maintains a desired water surface elevation. This scenario involves installation of 24 x 30 culvert, using an excavator and bulldozer in Southern Maine.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Structure for Water Control (587)	7412183A049A	Nov-04		1 each	Cumberland		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	excavator	5	hr	\$ 100.00	\$ 500.00	\$ 500.00	\$ 576.30
MATERIALS	culvert (24 x 30)	1	each	\$ 425.00	\$ 425.00	\$ 425.00	\$ 489.86
EQUIPMENT/ INSTALLATION	bulldozer	4	hr	\$ 75.00	\$ 300.00	\$ 300.00	\$ 345.78
MATERIALS	gravel	10	cyd	\$ 7.00	\$ 70.00	\$ 70.00	\$ 80.68
LABOR	labor	5	hr	\$ 25.00	\$ 125.00	\$ 125.00	\$ 144.08
LABOR	labor	6	hr	\$ 15.00	\$ 90.00	\$ 90.00	\$ 103.73
Total					\$ 1,510.00	\$ 1,510.00	\$ 1,740.43

<b>Cost Data</b>							
Scenario 1: Utilizing environmentally sensitive prevention, avoidance, monitoring and suppression strategies, to manage weeds, insects, diseases, animals and other organisms (including invasive and non-invasive species), that directly or indirectly cause damage or annoyance. This scenario is the installation of a beaver deceiver/pond leveler.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Pest Management (595)	none	Jan-06	1	no.	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	PVC 6" perforated pipe	6	each	\$ 14.00	\$ 84.00	\$ 84.00	\$ 88.25
MATERIALS	Roll of 10x10 wire	1	roll	\$ 82.00	\$ 82.00	\$ 82.00	\$ 86.15
MATERIALS	Steel Fence Posts	12	each	\$ 20.00	\$ 240.00	\$ 240.00	\$ 252.14
MATERIALS	Tie wire	1	roll	\$ 5.00	\$ 5.00	\$ 5.00	\$ 5.25
LABOR	Setup	4	hr	\$ 35.00	\$ 140.00	\$ 140.00	\$ 147.08
Total					\$ 551.00	\$ 551.00	\$ 578.88

<b>Cost Data</b>							
Scenario: Pipe installed beneath the ground surface to collect and/or convey drainage water. This scenario involves 325 feet of pipe in excavated trench, backfilled with gravel, mulched with hay.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Subsurface Drain (606)	7412183A081A	Nov-04	325	feet	Hancock		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	bank run gravel	56	cy	\$ 8.50	\$ 476.00	\$ 1.46	\$ 1.69
MATERIALS	pipe (4" x 10' SCH 40 pipe)	2	each	\$ 16.26	\$ 32.53	\$ 0.10	\$ 0.12
MATERIALS	4X4 DP, flex	2	each	\$ 6.29	\$ 12.58	\$ 0.04	\$ 0.04
MATERIALS	mulch hay	4	bale	\$ 3.00	\$ 12.00	\$ 0.04	\$ 0.04
MATERIALS	seed				\$ 11.34	\$ 0.03	\$ 0.04
EQUIPMENT/ INSTALLATION	excavated drainage trench	8.5	hr	\$ 80.00	\$ 680.00	\$ 2.09	\$ 2.41
EQUIPMENT/ INSTALLATION	laid pipe, covered w/ gvl, backfill	7	hr	\$ 80.00	\$ 560.00	\$ 1.72	\$ 1.99
LABOR	reconfigure pasture fences	2	hr	\$ 15.00	\$ 30.00	\$ 0.09	\$ 0.11
LABOR	connecting sch 40 & drng pipe	1	hr	\$ 15.00	\$ 15.00	\$ 0.05	\$ 0.05
LABOR	seed and mulch site	1	hr	\$ 15.00	\$ 15.00	\$ 0.05	\$ 0.05
MATERIALS	4" underdrainage pipe	2	roll	\$ 104.69	\$ 209.38	\$ 0.64	\$ 0.74
Total					\$ 2,053.83	\$ 6.32	\$ 7.28

Cost Data							
Scenario 1: A tank for providing animal access to water in order to protect and enhance vegetative cover through proper distribution of grazing, provide erosion control through better grassland management, and protect streams, ponds and water supplies from contamination. This scenario is an insulated tank, for which excavation is required.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Watering Facility (614)	none	Jan-06	1	no.	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Insulated tank with shipping	1	each	\$ 743.00	\$ 743.00	\$ 743.00	\$ 780.60
EQUIPMENT/ INSTALLATION	Excavator	3	hr	\$ 90.00	\$ 270.00	\$ 270.00	\$ 283.66
LABOR	Labor	2	hr	\$ 16.00	\$ 32.00	\$ 32.00	\$ 33.62
MATERIALS	Fixtures				\$ 20.00	\$ 20.00	\$ 21.01
Total					\$ 1,065.00	\$ 1,065.00	\$ 1,118.89
Scenario 2: Low cost - small tank, no excavation required.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Watering Facility (614)	none	Jan-06	1	no.	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	small tank	1	each	\$ 300.00	\$ 300.00	\$ 300.00	\$ 315.18
LABOR	labor to set up	1	hr	\$ 16.00	\$ 16.00	\$ 16.00	\$ 16.81
MATERIALS	5/8" hose	50	feet	\$ 0.88	\$ 44.09	\$ 44.09	\$ 46.32
MATERIALS	fixtures				\$ 3.00	\$ 3.00	\$ 3.15
Total					\$ 363.09	\$ 363.09	\$ 381.46
Scenario 3: Nose Pump - sometimes called a "pasture pump" is an animal-powered system. This pump uses a large diaphragm pump connected to a treadle that the cows operate with their nose. The pump is connected to the water supply with a suction hose. Water is located in a long narrow trough beneath the treadle. As the cow tries to reach the water, she pushes the treadle back, drawing about a quart of water into the diaphragm pump. When she releases the treadle, the new charge of water is released into the trough. These pumps cost \$300-500 and can lift water up to 20 feet above the supply elevation. Our experience is that 10 feet is a more reasonable limit on lift. One pump is required for every 20 cows. Source: Watering Systems for Managed Riparian Areas by Shawn Shouse – ISU Extension Ag Engineering Specialist. Cost is from survey of field offices in 2003, and includes installation.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Watering Facility (614)	none	Jan-03	1	no.	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	pasture pump, installed				\$ 600.00	\$ 600.00	\$ 728.28
Total					\$ 600.00	\$ 600.00	\$ 728.28

Cost Data							
Scenario 1: A conduit installed beneath the surface of the ground to collect surface water and convey it to a suitable outlet. This scenario is the outlet only. It is necessary to separate out the outlet and pipe due to the varying lengths of pipe that may be required at individual sites.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Underground Outlet (620)	7412184A332	Oct-05	1	each	Franklin		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Concrete basin & grate (24" dia)	1	each	\$ 601.50	\$ 601.50	\$ 601.50	\$ 656.48
EQUIPMENT/ INSTALLATION	Excavator (rental)				\$ 375.00	\$ 375.00	\$ 409.28
EQUIPMENT/ INSTALLATION	Compactor (rental)	1	each	\$ 100.00	\$ 100.00	\$ 100.00	\$ 109.14
LABOR	Labor (2 men for 5 hrs)	10	hr	\$ 12.00	\$ 120.00	\$ 120.00	\$ 130.97
Total					\$ 1,196.50	\$ 1,196.50	\$ 1,305.86
Scenario 2: Pipe only							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Underground Outlet (620)	7412184A332	Oct-05	200	linear foot	Franklin		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Pipe	200	feet	\$ 4.20	\$ 840.85	\$ 4.20	\$ 4.59
EQUIPMENT/ INSTALLATION	Excavator (rental)				\$ 375.00	\$ 1.88	\$ 2.05
EQUIPMENT/ INSTALLATION	Pick up truck	4	hr	\$ 13.68	\$ 54.72	\$ 0.27	\$ 0.30
MATERIALS	Insulation (2"X4'X8') styro	3	each	\$ 25.19	\$ 75.57	\$ 0.38	\$ 0.41
LABOR	Labor	38	hr	\$ 12.00	\$ 456.00	\$ 2.28	\$ 2.49
LABOR	Labor (skilled)	16	hr	\$ 15.00	\$ 240.00	\$ 1.20	\$ 1.31
MATERIALS	Bank run sand	48	cyd	\$ 7.35	\$ 352.80	\$ 1.76	\$ 1.93
Total					\$ 2,394.94	\$ 11.97	\$ 13.07

Cost Data							
Scenario 1: A system of components for the conditioning of milking center wastewater. Components may include a settling trap, grease traps, a pump station, a pipeline distribution system, clean water exclusion devices, exclusion fencing, and a stone disposal field. This scenario is a high cost waste treatment system in central Maine. Includes 2,000 cy of gravel and hydroseeding.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Waste Treatment (629)	7412184A373	Sep-06	1	each	Kennebec		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Screened gravel	2000	cyd	\$ 4.50	\$ 9,000.00	\$ 9,000.00	\$ 9,455.40
EQUIPMENT/ INSTALLATION	Hydroseed				\$ 650.00	\$ 650.00	\$ 682.89
MATERIALS	Concrete products (invoice)				\$ 3,802.87	\$ 3,802.87	\$ 3,995.30
MATERIALS	Concrete products (invoice)				\$ 967.81	\$ 967.81	\$ 1,016.78
MATERIALS	Concrete products (invoice)				\$ 2,969.17	\$ 2,969.17	\$ 3,119.41
Total					\$ 17,389.85	\$ 17,389.85	\$ 18,269.78
Scenario 2: Low-Medium cost waste treatment system in central Maine.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Waste Treatment (629)	7412185A477	Aug-05	1	each	Somerset		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Infiltrators, tanks, risers, pipes				\$ 3,730.00	\$ 3,730.00	\$ 4,070.92
EQUIPMENT/ INSTALLATION	Gravel and installation costs				\$ 3,165.00	\$ 3,165.00	\$ 3,454.28
Total					\$ 6,895.00	\$ 6,895.00	\$ 7,525.20

Cost Data							
Scenario 1: A manure conveyance system using structures and conduits to transfer animal manure (bedding material, spilled feed, process and wash water, and other residues associated with animal production) through a hopper or reception pit, a pump, and a conduit to a manure storage/treatment facility or loading area. This scenario represents the high cost system with pump, pipe, and pit.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Manure Transfer (634)	7412185A643	Oct-05	1	no.	Penobscot		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	excavator	14	hr	\$ 80.00	\$ 1,120.00	\$ 1,120.00	\$ 1,222.37
EQUIPMENT/ INSTALLATION	truck	1.5	hr	\$ 30.00	\$ 45.00	\$ 45.00	\$ 49.11
EQUIPMENT/ INSTALLATION	backhoe	18	hr	\$ 60.00	\$ 1,080.00	\$ 1,080.00	\$ 1,178.71
EQUIPMENT/ INSTALLATION	skidsteer	12	hr	\$ 45.00	\$ 540.00	\$ 540.00	\$ 589.36
LABOR	labor	45	hr	\$ 20.00	\$ 900.00	\$ 900.00	\$ 982.26
MATERIALS	Houle Magnum Manure Pump (7.5 HP)	1.00	each	\$ 24,500.00	\$ 24,500.00	\$ 24,500.00	\$ 26,739.30
MATERIALS	16" steel pipe	50.00	each	\$ 50.00	\$ 2,500.00	\$ 2,500.00	\$ 2,728.50
MATERIALS	3" pump oil bath 10 foot pit	1	each	\$ 3,693.00	\$ 3,693.00	\$ 3,693.00	\$ 4,030.54
MATERIALS	6" gravel	132	cy	\$ 8.00	\$ 1,056.00	\$ 1,056.00	\$ 1,152.52
MATERIALS	sand	84	cy	\$ 9.00	\$ 756.00	\$ 756.00	\$ 825.10
MATERIALS	Rebar/wire				\$ 603.88	\$ 603.88	\$ 659.07
MATERIALS	concrete				\$ 1,719.50	\$ 1,719.50	\$ 1,876.66
MATERIALS	gravel				\$ 390.60	\$ 390.60	\$ 426.30
MATERIALS	lumber				\$ 537.35	\$ 537.35	\$ 586.46
MATERIALS	miscellaneous (fasteners, nails, etc.)				\$ 1,222.43	\$ 1,222.43	\$ 1,334.16
Total					\$ 40,663.76	\$ 40,663.76	\$ 44,380.43
Scenario 2: Medium High cost.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Manure Transfer (634)	7412186A469	Jun-06	1	no.	Waldo		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	BODCO 42 foot prop. Agitator	1.00	each	\$ 12,400.00	\$ 12,400.00	\$ 12,400.00	\$ 13,027.44
MATERIALS	Jamesway 42 foot 5000 series lagoon pump	1.00	each	\$ 20,400.00	\$ 20,400.00	\$ 20,400.00	\$ 21,432.24
Total					\$ 32,800.00	\$ 32,800.00	\$ 34,459.68
Scenario 3: Medium cost.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Manure Transfer (634)	7412186A425	Jan-06	1	no.	Somerset		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Tractor	20	hr	\$ 50.00	\$ 1,000.00	\$ 1,000.00	\$ 1,050.60
EQUIPMENT/ INSTALLATION	jack hammer rental				\$ 50.00	\$ 50.00	\$ 52.53
LABOR	Labor and supplies (equipment co.)				\$ 5,600.00	\$ 5,600.00	\$ 5,883.36
LABOR	Family and hired labor	64	hr	\$ 15.00	\$ 960.00	\$ 960.00	\$ 1,008.58
LABOR	Service call				\$ 100.00	\$ 100.00	\$ 105.06
LABOR	shop labor (equipment co.)				\$ 1,320.00	\$ 1,320.00	\$ 1,386.79
MATERIALS	Pump				\$ 2,225.00	\$ 2,225.00	\$ 2,337.59
MATERIALS	Elevator with chain				\$ 5,375.00	\$ 5,375.00	\$ 5,646.98
MATERIALS	Cement	4	bag	\$ 6.00	\$ 24.00	\$ 24.00	\$ 25.21
MATERIALS	Bolt	1	each	\$ 5.00	\$ 5.00	\$ 5.00	\$ 5.25
MATERIALS	Parts				\$ 302.50	\$ 302.50	\$ 317.81
MATERIALS	corner wheel (with 10% discount)				\$ 381.17	\$ 381.17	\$ 400.46
Total					\$ 17,342.67	\$ 17,342.67	\$ 18,220.21
Scenario 4: Low cost system.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Manure Transfer (634)	7412185A440	Oct-05	1	no.	Knox-Lincoln		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Houle 8' manure pump 3 pt hitch	1	each	\$ 9,000.00	\$ 9,000.00	\$ 9,000.00	\$ 9,822.60
MATERIALS	concrete	4	cy	\$ 71.00	\$ 284.00	\$ 284.00	\$ 309.96
MATERIALS	gravel	98	cy	\$ 10.81	\$ 1,059.00	\$ 1,059.00	\$ 1,155.79
MATERIALS	rebar bending and cutting				\$ 35.00	\$ 35.00	\$ 38.20
MATERIALS	rebar and lumber				\$ 155.94	\$ 155.94	\$ 170.19
MATERIALS	lumber				\$ 25.00	\$ 25.00	\$ 27.29
LABOR	labor - forms, site prep, concrete work				\$ 1,398.50	\$ 1,398.50	\$ 1,526.32
Total					\$ 11,957.44	\$ 11,957.44	\$ 13,050.35

Cost Data							
Scenario: A treatment component of an agricultural waste management system consisting of a strip or area of herbaceous vegetation. Permanent herbaceous vegetation consisting of a single species or a mixture of grasses, legumes and/or other forbs shall be established in the treatment strip. Vegetation shall be able to withstand anticipated wetting and/or submerged conditions. This scenario assumes a filter area 60 feet wide by 100 feet long with a fence.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Wastewater Treatment Strip (635)	none	Jan-06	0.2	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Rock	10	cy	\$ 20.00	\$ 200.00	\$ 1,000.00	\$ 1,050.60
MATERIALS	Fence	320	feet	\$ 2.00	\$ 640.00	\$ 3,200.00	\$ 3,361.92
EQUIPMENT/ INSTALLATION	Seeding and ditching	1	each	\$ 160.00	\$ 160.00	\$ 800.00	\$ 840.48
Total					\$ 1,000.00	\$ 5,000.00	\$ 5,253.00

<b>Cost Data</b>							
Scenario 1: A hole drilled, dug, driven, bored, jetted or otherwise constructed to an aquifer to provide water for livestock, wildlife, irrigation, human, and other uses. This specific site was constructed along with a Livestock Watering Facility (614).							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Water Well (642)	7412184A272	Oct-03	1	no.	Aroostook (FK)		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Drilling				\$ 1,820.00	\$ 1,820.00	\$ 2,209.12
EQUIPMENT/ INSTALLATION	Backhoe	11	hr	\$ 30.00	\$ 330.00	\$ 330.00	\$ 400.55
MATERIALS	Tank				\$ 437.00	\$ 437.00	\$ 530.43
MATERIALS	Cover				\$ 150.00	\$ 150.00	\$ 182.07
MATERIALS	Sleeves				\$ 115.00	\$ 115.00	\$ 139.59
MATERIALS	Sealant				\$ 73.50	\$ 73.50	\$ 89.21
MATERIALS	Plug				\$ 23.75	\$ 23.75	\$ 28.83
MATERIALS	Pipe				\$ 16.03	\$ 16.03	\$ 19.46
MATERIALS	Tax				\$ 39.97	\$ 39.97	\$ 48.52
MATERIALS	pasture pump, installed (see 614)				\$ 600.00	\$ 600.00	\$ 728.28
Total					\$ 3,605.25	\$ 3,605.25	\$ 4,376.05

Cost Data							
Scenario 1: Retaining, developing, or managing habitat for wetland wildlife to maintain, develop, or improve habitat for waterfowl, fur-bearers, or other wetland associated flora and fauna. For this scenario, excavate common earth with a 1/2 CY backhoe using 2 6 CY dump trucks (see p. 424 2003 RSMans Site Work & Landscape).							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Wetland Wildlife Habitat Management (644)	none	Jan-03	1	cy	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Excavation (backhoe)	1	cy	\$ 0.99	\$ 0.99	\$ 0.99	\$ 1.20
LABOR	Excavation (backhoe)	1	cy	\$ 1.98	\$ 1.98	\$ 1.98	\$ 2.40
MOBILIZATION	Mobilization	1	cy	\$ 0.04	\$ 0.04	\$ 0.04	\$ 0.05
EQUIPMENT/ INSTALLATION	Haul earth, 6 CY dump truck	1	cy	\$ 1.75	\$ 1.75	\$ 1.75	\$ 2.12
LABOR	Haul earth, 6 CY dump truck	1	cy	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.98
LABOR	Spotter at earth fill dump	1	cy	\$ 0.62	\$ 0.62	\$ 0.62	\$ 0.75
Total					\$ 7.01	\$ 7.01	\$ 8.51
Scenario 2: Purchase and installation of waterfowl nest platforms for wetland wildlife habitat.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Wetland Wildlife Habitat Management (644)	none	Jan-06	1	each	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Platform (Duck Den)	1	each	\$ 100.00	\$ 100.00	\$ 100.00	\$ 105.06
MOBILIZATION	Shipping and Handling	1	each	\$ 20.00	\$ 20.00	\$ 20.00	\$ 21.01
MATERIALS	Wood chips (packet for structure)	1	each	\$ 6.00	\$ 6.00	\$ 6.00	\$ 6.30
MATERIALS	Pole (2 7/8 inch)	1	each	\$ -	\$ -	\$ -	\$ -
LABOR	Labor (setup)	2	hr	\$ 16.00	\$ 32.00	\$ 32.00	\$ 33.62
Total					\$ 158.00	\$ 158.00	\$ 165.99
Scenario 3: Planting of native wetland plugs (unit is plant)							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Wetland Wildlife Habitat Management (644)	none	Jan-06	1	plant	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Native wetland plug	1	plant	\$ 0.75	\$ 0.75	\$ 0.75	\$ 0.79
LABOR	Labor for planting	1	plant	\$ 1.25	\$ 1.25	\$ 1.25	\$ 1.31
Total					\$ 2.00	\$ 2.00	\$ 2.10
Scenario 4: Broadcast planting of native wetland mix (from seed). Light site prep includes herbicide application, no tillage.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Wetland Wildlife Habitat Management (644)	none	Jan-06	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Native wetland mix	15	lb	\$ 75.00	\$ 1,125.00	\$ 1,125.00	\$ 1,181.93
LABOR	Labor to broadcast	2	hr	\$ 16.00	\$ 32.00	\$ 32.00	\$ 33.62
EQUIPMENT/ INSTALLATION	Light site prep - herbicide application	1	acre	\$ 100.00	\$ 100.00	\$ 100.00	\$ 105.06
Total					\$ 1,257.00	\$ 1,257.00	\$ 1,320.60
Scenario 5: Purchase and installation of nest boxes for wetland wildlife habitat.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Wetland Wildlife Habitat Management (644)	none	Jan-06	1	each	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Nest box	1	each	\$ 120.00	\$ 120.00	\$ 120.00	\$ 126.07
LABOR	Labor to install	1	hr	\$ 16.00	\$ 16.00	\$ 16.00	\$ 16.81
Total					\$ 136.00	\$ 136.00	\$ 142.88

Cost Data							
Scenario 1: Rehabilitation of a degraded wetland so that the soils, hydrology, vegetative community, and biological habitat are returned to the natural condition to the extent practicable. This scenario consists of excavating common earth using a 1/2 CY backhoe, 2 6 CY dump trucks (see p. 424 2003 RSMeans Site Work & Landscape).							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Wetland Restoration (657)	none	Jan-03	1	cy	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Excavation (backhoe)	1	cy	\$ 0.99	\$ 0.99	\$ 0.99	\$ 1.20
LABOR	Excavation (backhoe)	1	cy	\$ 1.98	\$ 1.98	\$ 1.98	\$ 2.40
MOBILIZATION	Mobilization	1	cy	\$ 0.04	\$ 0.04	\$ 0.04	\$ 0.05
EQUIPMENT/ INSTALLATION	Haul earth, 6 CY dump truck	1	cy	\$ 1.75	\$ 1.75	\$ 1.75	\$ 2.12
LABOR	Haul earth, 6 CY dump truck	1	cy	\$ 1.63	\$ 1.63	\$ 1.63	\$ 1.98
LABOR	Spotter at earth fill dump	1	cy	\$ 0.62	\$ 0.62	\$ 0.62	\$ 0.75
Total					\$ 7.01	\$ 7.01	\$ 8.51
Scenario 2: Ditch plugs (organic fill excavated onsite and standard 3/4" plywood 4' x 8' sheathing)							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Wetland Restoration (657)	none	Jan-07	1	each	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Plywood sheathing and installation	8	each	\$ 50.00	\$ 400.00	\$ 400.00	\$ 408.00
MOBILIZATION	Excavator	4	hr	\$ 100.00	\$ 400.00	\$ 400.00	\$ 408.00
MOBILIZATION	Dump wagon	4	hr	\$ 75.00	\$ 300.00	\$ 300.00	\$ 306.00
MOBILIZATION	Truck to tow Excavator and wagon	4	hr	\$ 55.00	\$ 220.00	\$ 220.00	\$ 224.40
EQUIPMENT/ INSTALLATION	Dump wagon	3	hr	\$ 75.00	\$ 225.00	\$ 225.00	\$ 229.50
EQUIPMENT/ INSTALLATION	Excavator	6	hr	\$ 125.00	\$ 750.00	\$ 750.00	\$ 765.00
Total					\$ 2,295.00	\$ 2,295.00	\$ 2,340.90
Scenario 3: Planting of native wetland plugs (unit is plant)							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Wetland Restoration (657)	none	Jan-06	1	plant	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Native wetland plug	1	plant	\$ 0.75	\$ 0.75	\$ 0.75	\$ 0.79
LABOR	Labor for planting	1	plant	\$ 1.25	\$ 1.25	\$ 1.25	\$ 1.31
Total					\$ 2.00	\$ 2.00	\$ 2.10
Scenario 4: Broadcast planting of native wetland mix (from seed). Light site prep includes herbicide application, no tillage.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Wetland Restoration (657)	none	Jan-06	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Native wetland mix	15	lb	\$ 75.00	\$ 1,125.00	\$ 1,125.00	\$ 1,181.93
LABOR	Labor to broadcast	2	hr	\$ 16.00	\$ 32.00	\$ 32.00	\$ 33.62
EQUIPMENT/ INSTALLATION	Light site prep - herbicide application	1	acre	\$ 100.00	\$ 100.00	\$ 100.00	\$ 105.06
Total					\$ 1,257.00	\$ 1,257.00	\$ 1,320.60
Scenario 5: Precision earthwork with mats. Non-toxic material, includes mobilization, excavation, dewatering, and removal to beneficial use location. From Dunstan Marsh Cost Estimate developed 1/27/2006.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Wetland Restoration (657)	none	Jan-06	1	cy	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	All equipment (excavator, trucks, etc.)	1	cy	\$ 18.00	\$ 18.00	\$ 18.00	\$ 18.91
Total					\$ 18.00	\$ 18.00	\$ 18.91

Cost Data							
Scenario 1: Embankment - Construction of 600 feet of low embankment with a maximum height of 5 feet, 8 foot top width, 5:1 side slopes. Sod and topsoil stripped and stockpiled from footprint of low embankment and borrow areas. A core trench installed if more than 2 feet of water is impounded. A spillway system installed with a water control structure installed (Practice 587) and vegetated, or rock-lined auxiliary spillway constructed as specified in the design. Earthfill placed and compacted as per design, fill averages 3 cubic yards per lineal foot of embankment, total of 1800 cy. Topsoil spread on finished embankment, borrow areas graded and topsoiled as per design. All disturbed areas seeded (per practice standard 342 Critical Area Planting).							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Wetland Enhancement (659)	none	Jan-07	1800	cy	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MOBILIZATION	mobilize excavator and bulldozers	3	each	\$ 150.00	\$ 450.00	\$ 0.25	\$ 0.26
EQUIPMENT/ INSTALLATION	excavator	20	hr	\$ 95.00	\$ 1,900.00	\$ 1.06	\$ 1.08
EQUIPMENT/ INSTALLATION	bulldozers	150	hr	\$ 85.00	\$ 12,750.00	\$ 7.08	\$ 7.23
EQUIPMENT/ INSTALLATION	clearing and grubbing	1	acre	\$ 2,500.00	\$ 2,500.00	\$ 1.39	\$ 1.42
Total					\$ 17,600.00	\$ 9.78	\$ 9.97
Scenario 2: Microtopography construction - Excavation of 4 potholes averaging from 6" to 18" deep, maximum depth 4', sides slopes 3:1 or flatter, 50% of the perimeter should be 6:1 or flatter. Surface area of each pothole to be about 12,000 square feet. All edges of the pothole excavation will be irregular and of varying slope. All spoil excavated will be spread and graded so as not to exceed 2' in height above normal ground, be at least 20' from the edge of the pothole, slope of graded spoil will not exceed 4:1. Topsoil is spread on graded spoil and topsoil to be spread on all surfaces of the pothole when excavation is complete. All disturbed areas will be seeded (per practice standard 342 Critical Area Planting).							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Wetland Enhancement (659)	none	Jan-07	48000	sf	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MOBILIZATION	mobilize excavator and bulldozer	2	each	\$ 150.00	\$ 300.00	\$ 0.01	\$ 0.01
EQUIPMENT/ INSTALLATION	excavator	30	hr	\$ 95.00	\$ 2,850.00	\$ 0.06	\$ 0.06
EQUIPMENT/ INSTALLATION	bulldozer	70	hr	\$ 85.00	\$ 5,950.00	\$ 0.12	\$ 0.13
EQUIPMENT/ INSTALLATION	clearing and grubbing	1.1	acre	\$ 2,500.00	\$ 2,750.00	\$ 0.06	\$ 0.06
Total					\$ 11,850.00	\$ 0.25	\$ 0.25
Scenario 3: Planting of native wetland plugs (unit is plant)							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Wetland Enhancement (659)	none	Jan-06	1	plant	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Native wetland plug	1	plant	\$ 0.75	\$ 0.75	\$ 0.75	\$ 0.79
LABOR	Labor for planting	1	plant	\$ 1.25	\$ 1.25	\$ 1.25	\$ 1.31
Total					\$ 2.00	\$ 2.00	\$ 2.10
Scenario 4: Broadcast planting of native wetland mix (from seed). Light site prep includes herbicide application, no tillage.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Wetland Enhancement (659)	none	Jan-06	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Native wetland mix	15	lb	\$ 75.00	\$ 1,125.00	\$ 1,125.00	\$ 1,181.93
LABOR	Labor to broadcast	2	hr	\$ 16.00	\$ 32.00	\$ 32.00	\$ 33.62
EQUIPMENT/ INSTALLATION	Light site prep - herbicide application	1	acre	\$ 100.00	\$ 100.00	\$ 100.00	\$ 105.06
Total					\$ 1,257.00	\$ 1,257.00	\$ 1,320.60

<b>Cost Data</b>							
Scenario: A permanent structure with an impervious surface to provide an environmentally safe area for the handling of pesticides and fertilizers. This scenario is a 896 square foot structure with concrete floor and roof. These figures are from a small roofed waste storage facility. The unit is the square footage of the footprint of the structure.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Agrichemical Handling Facility (702)	none	Jan-06	896	sf	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	All items				\$ 28,182.00	\$ 31.45	\$ 33.04
					\$ -	\$ -	\$ -
Total					\$ 28,182.00	\$ 31.45	\$ 33.04

unit cost summary

This file provides estimates of typical costs for vegetative-type conservation practices. Actual costs for specific projects may vary considerably depending on site conditions and location. Where practical and feasible, inputs, quantities, and prices from actual bills were used. Contract numbers are provided, as well as the date installed and the county it was installed in. If a cost estimate has a contract number, it came from bills from an actual job that was installed and payed on. If no contract number is provided, costs were estimated by other means. All costs were updated to July 2007 dollars.

Practice Name	Component	Unit Type	Estimated Total Unit Cost
Conservation Cover (327)	Conservation Cover	acre	\$ 422.37
Critical Area Planting (342)	Critical Area Planting	acre	\$ 1,353.34
Early Successional Habitat Development/Management (647)	Heavy mech. tree/shrub mgmt.	acre	\$ 1,050.60
	Medium mech. tree/shrub management	acre	\$ 294.17
	Light herbaceous/shrub management	acre	\$ 63.29
	Conservation cover	acre	\$ 422.37
	Native species or wildflower mix	acre	\$ 1,150.18
	Delayed mowing or harvest	acre	\$ 157.59
	Light mowing of early successional habitats	acre	\$ 56.25
Field Border (386)	Field Border	acre	\$ 422.37
Filter Strip (393)	Filter strip	acre	\$ 422.37
Forest Stand Improvement (666)	apple tree release	tree	\$ 20.60
	sanitation cutting, high intensity	acre	\$ 1,248.36
	sanitation cutting, medium intensity	acre	\$ 546.16
	thinning	acre	\$ 312.09
	thinning for wildlife	acre	\$ 365.15
Forest Trail and Landing (655)	Forest Trail, no water bars or fabric	foot	\$ 7.03
	Forest Trail, water bars and fabric	foot	\$ 11.65
	Landing repair	acre	\$ 1,854.00
Hedgerow Planting (422)	Hedgerow planting	foot	\$ 2.29
Pasture & Hayland Planting (512)	Pasture & Hayland Planting	acre	\$ 480.18
	Reduced tillage	acre	\$ 254.74
Pest Management (595)	Spot spray of invasive exotics	acre	\$ 161.25
	phragmites control	acre	\$ 1,410.00
Riparian Forest Buffer (391)	shelters on all trees	acre	\$ 3,514.19
	shelters on half of all trees	acre	\$ 3,062.47
	no tree shelters	acre	\$ 2,610.75
	Natural regeneration	acre	\$ 124.44
Stripcropping (585)	Stripcropping	acre	\$ 49.04
Tree/Shrub Establishment (612)	All shrubs without shelters or mats	acre	\$ 4,517.17
	All trees with shelters and mats	acre	\$ 4,069.19
	Trees only, no shelters	acre	\$ 2,441.51
	Trees only, no shelters or mats	acre	\$ 1,627.68
Tree/Shrub Pruning (660)	Aforestation	acre	\$ 308.58
	0 to 9 feet	tree	\$ 0.75
	9 to 17 feet	tree	\$ 2.50
Tree/Shrub Site Preparation (490)	17 to 25 feet	tree	\$ 3.17
	non-forestland	acre	\$ 103.15
	forestland	acre	\$ 315.18
Upland Wildlife Habitat Management (645)	Brush pile	no.	\$ 138.68
	Leave unharvested crop strips	acre	\$ 484.70
	Mechanical tree/shrub management	acre	\$ 1,050.60
Windbreak/Shelterbelt Est. (380)	Nest boxes	no.	\$ 142.88
	Snag trees	no.	\$ 138.68
	2 row	foot	\$ 2.53
	1 row	foot	\$ 0.99

Cost Data							
Scenario: Establishing and maintaining permanent vegetative cover to reduce soil erosion and sedimentation, improve water quality, and enhance wildlife habitat. This scenario assumes 1 acre of filter strip, with tillage and mulch.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Conservation Cover (327)	7212185A275	Oct-05	1	acre	Somerset		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	disc harrow	12	hr	\$ 15.00	\$ 180.00	\$ 180.00	\$ 196.45
LABOR	labor	6	hr	\$ 10.00	\$ 60.00	\$ 60.00	\$ 65.48
MATERIALS	Hay for seed and mulch	25	bale	\$ 1.40	\$ 35.00	\$ 35.00	\$ 38.20
MATERIALS	Seed (cons mix w/ annual rye)	100	lb	\$ 1.12	\$ 112.00	\$ 112.00	\$ 122.24
Total					\$ 387.00	\$ 387.00	\$ 422.37

Cost Data							
Scenario: Establishing permanent vegetation on sites that have or are expected to have high erosion rates, and on sites that have physical, chemical or biological conditions that prevent the establishment of vegetation with normal practices. This scenario is a 5 acre planting in 2005.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Critical Area Planting (342)	7412183A174	May-05	5	acre	Waldo		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	site preparation	48	hr	\$ 125.00	\$ 6,000.00	\$ 1,200.00	\$ 1,309.68
MATERIALS	seed	5	?	\$ 40.00	\$ 200.00	\$ 40.00	\$ 43.66
Total					\$ 6,200.00	\$ 1,240.00	\$ 1,353.34

Cost Data							
Scenario 1: Windbreaks or shelterbelts are single or multiple rows of trees or shrubs in linear configurations. This scenario involves planting 2 rows of trees and one row of shrubs, with tree shelters on all the hardwoods, mats on all plants, 10X10 spacing for trees, 6X6 spacing for shrubs. Dimensions of windbreak 36' x 1,210'.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Windbreak/Shelterbelt Est. (380)	none	Jun-02	1210	feet	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Trees	242	each	\$ 1.50	\$ 363.00	\$ 0.30	\$ 0.37
MATERIALS	Shrubs	202	each	\$ 1.50	\$ 303.00	\$ 0.25	\$ 0.31
MATERIALS	Tree shelters with stakes	121	each	\$ 3.00	\$ 363.00	\$ 0.30	\$ 0.37
MATERIALS	Mats and pins	444	each	\$ 1.50	\$ 666.00	\$ 0.55	\$ 0.68
LABOR	Planting labor	444	plant	\$ 1.50	\$ 666.00	\$ 0.55	\$ 0.68
EQUIPMENT/ INSTALLATION	Light site prep	1	acre	\$ 100.00	\$ 100.00	\$ 0.08	\$ 0.10
Total					\$ 2,461.00	\$ 2.03	\$ 2.53
Scenario 2: Planting 1 row of shrubs with mats only at 6' X 6' spacing.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Windbreak/Shelterbelt Est. (380)	none	Jun-02	500	feet	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Shrubs	85	each	\$ 1.50	\$ 127.50	\$ 0.26	\$ 0.32
LABOR	Planting labor	85	plant	\$ 1.50	\$ 127.50	\$ 0.26	\$ 0.32
MATERIALS	Mats and pins	85	each	\$ 1.50	\$ 127.50	\$ 0.26	\$ 0.32
EQUIPMENT/ INSTALLATION	Light site prep	0.15	acre	\$ 100.00	\$ 15.00	\$ 0.03	\$ 0.04
Total					\$ 397.50	\$ 0.80	\$ 0.99

Cost Data							
Scenario: A strip or area of herbaceous vegetation situated between cropland, grazing land, or disturbed land (including forest land) and environmentally sensitive areas. This scenario is 1 acre in size, installed using tillage and mulch in central Maine.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Field Border (386)	see 7212185A275 (327)	Oct-05	1	acre	Somerset		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	disc harrow	12	hr	\$ 15.00	\$ 180.00	\$ 180.00	\$ 196.45
LABOR	labor	6	hr	\$ 10.00	\$ 60.00	\$ 60.00	\$ 65.48
MATERIALS	Hay for seed and mulch	25	bale	\$ 1.40	\$ 35.00	\$ 35.00	\$ 38.20
MATERIALS	Seed (cons mix w/ annual rye)	100	lb	\$ 1.12	\$ 112.00	\$ 112.00	\$ 122.24
Total					\$ 387.00	\$ 387.00	\$ 422.37

Cost Data							
Scenario 1: An area of predominantly trees and/or shrubs located adjacent to and up-gradient from watercourses or water bodies. This scenario involves planting 2 types of hardwood trees at a 10X10 spacing and 2 types of shrubs at a 6X6 spacing, with shelters on all trees and mats on all trees and shrubs. The average buffer width is 35'.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Riparian Forest Buffer (391)	none	Jun-02	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Trees	242	each	\$ 1.50	\$ 363.00	\$ 363.00	\$ 451.72
MATERIALS	Shrubs	202	each	\$ 1.50	\$ 303.00	\$ 303.00	\$ 377.05
MATERIALS	Tree shelters with stakes	242	each	\$ 3.00	\$ 726.00	\$ 726.00	\$ 903.43
MATERIALS	Mats and pins	444	each	\$ 1.50	\$ 666.00	\$ 666.00	\$ 828.77
LABOR	Planting labor	444	plant	\$ 1.50	\$ 666.00	\$ 666.00	\$ 828.77
EQUIPMENT/ INSTALLATION	Light site prep	1	acre	\$ 100.00	\$ 100.00	\$ 100.00	\$ 124.44
Total					\$ 2,824.00	\$ 2,824.00	\$ 3,514.19
Scenario 2: Planting 2 types of hardwood trees at 10X10 spacing and 2 types of shrubs at 6X6 spacing, with shelters on the hardwood trees (half of all trees) and mats on all trees and shrubs.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Riparian Forest Buffer (391)	none	Jun-02	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Trees	242	each	\$ 1.50	\$ 363.00	\$ 363.00	\$ 451.72
MATERIALS	Shrubs	202	each	\$ 1.50	\$ 303.00	\$ 303.00	\$ 377.05
MATERIALS	Tree shelters with stakes	121	each	\$ 3.00	\$ 363.00	\$ 363.00	\$ 451.72
MATERIALS	Mats and pins	444	each	\$ 1.50	\$ 666.00	\$ 666.00	\$ 828.77
LABOR	Planting labor	444	plant	\$ 1.50	\$ 666.00	\$ 666.00	\$ 828.77
EQUIPMENT/ INSTALLATION	Light site prep	1	acre	\$ 100.00	\$ 100.00	\$ 100.00	\$ 124.44
Total					\$ 2,461.00	\$ 2,461.00	\$ 3,062.47
Scenario 3: Planting 2 types of hardwood trees at 10X10 spacing and 2 types of shrubs at 6X6 spacing, with mats on all plants, 36' wide buffer.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Riparian Forest Buffer (391)	none	Jun-02	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Trees	242	each	\$ 1.50	\$ 363.00	\$ 363.00	\$ 451.72
MATERIALS	Shrubs	202	each	\$ 1.50	\$ 303.00	\$ 303.00	\$ 377.05
MATERIALS	Mats and pins	444	each	\$ 1.50	\$ 666.00	\$ 666.00	\$ 828.77
LABOR	Planting labor	444	plant	\$ 1.50	\$ 666.00	\$ 666.00	\$ 828.77
EQUIPMENT/ INSTALLATION	Light site prep	1	acre	\$ 100.00	\$ 100.00	\$ 100.00	\$ 124.44
Total					\$ 2,098.00	\$ 2,098.00	\$ 2,610.75
Scenario 4: Natural regeneration, site preparation only, no planting. Site prep consists of tillage, mowing, or herbicide application.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Riparian Forest Buffer (391)	none		1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Light site prep	1	acre	\$ 100.00	\$ 100.00	\$ 100.00	\$ 124.44
					\$ -	\$ -	\$ -
Total					\$ 100.00	\$ 100.00	\$ 124.44

Cost Data							
Scenario: A strip of herbaceous vegetation situated between cropland, grazing land, or disturbed land (including forest land) and environmentally sensitive areas. This scenario is 1 acre in size, with tillage, site prep and mulch installed in central Maine in 2005.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Filter Strip (393)	see 7212185A275 (327)	Oct-05	1	acre	Somerset		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	ATV with disc harrow	12	hr	\$ 15.00	\$ 180.00	\$ 180.00	\$ 196.45
LABOR	labor	6	hr	\$ 10.00	\$ 60.00	\$ 60.00	\$ 65.48
MATERIALS	Hay for seed and mulch	25	bale	\$ 1.40	\$ 35.00	\$ 35.00	\$ 38.20
MATERIALS	Seed (cons mix w/ annual rye)	100	lb	\$ 1.12	\$ 112.00	\$ 112.00	\$ 122.24
Total					\$ 387.00	\$ 387.00	\$ 422.37

Cost Data							
Scenario: Establishment of dense vegetation in a linear design to achieve a natural resource conservation purpose. This scenario is a half acre planting, 2 rows of trees, 1 row of shrubs. Shrubs 4' X 4' spacing, conifers 6' X 6' spacing, no tree tubes.							
Conservation Practice	Contract Number	Date	Size	County			
Hedgerow Planting (422)	none	Jun-02	1089 feet	none			
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Trees	363	each	\$ 1.50	\$ 544.50	\$ 0.50	\$ 0.62
MATERIALS	Shrubs	272	each	\$ 1.50	\$ 408.00	\$ 0.37	\$ 0.47
LABOR	Labor for planting	635	plant	\$ 1.50	\$ 952.50	\$ 0.87	\$ 1.09
EQUIPMENT/ INSTALLATION	Light site prep	1	acre	\$ 100.00	\$ 100.00	\$ 0.09	\$ 0.11
Total					\$ 2,005.00	\$ 1.84	\$ 2.29

<b>Cost Data</b>							
Scenario 1: Treatment of areas to improve site conditions for establishing trees and/or shrubs to encourage natural regeneration of desirable woody plants and/or permit artificial establishment of woody plants. For this scenario, assume light site preparation in an open field - mowing and band application of herbicides is all that is necessary.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Tree/Shrub Site Preparation (490)	none	Jan-00	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Mower - 6'	0.45	hr	\$ 17.49	\$ 7.95	\$ 7.95	\$ 10.30
EQUIPMENT/ INSTALLATION	Tractor (50-64 HP)	0.45	hr	\$ 32.69	\$ 14.86	\$ 14.86	\$ 19.25
LABOR	Labor	0.45	hr	\$ 15.00	\$ 6.82	\$ 6.82	\$ 8.83
EQUIPMENT/ INSTALLATION	Herbicide - band application	1	acre	\$ 50.00	\$ 50.00	\$ 50.00	\$ 64.77
Total					\$ 79.63	\$ 79.63	\$ 103.15
Scenario 2: Heavy site preparation with skidder							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Tree/Shrub Site Preparation (490)	none	Jan-06	1	acre	Hancock		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Skidder	3	hr	\$ 100.00	\$ 300.00	\$ 300.00	\$ 315.18
Total					\$ 300.00	\$ 300.00	\$ 315.18

Cost Data							
Scenario 1: Establish native or introduced forage species. This scenario is a 12 acre pasture planting in northern Maine. It includes lime, fertilizer, rock picking, plowing.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Pasture & Hayland Planting (512)	7412185A387A	Jun-05	12.2	acre	Aroostook (FK)		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Lime	17.6	ton	\$ 86.00	\$ 1,513.60	\$ 124.07	\$ 135.41
MATERIALS	Fertilizer	1.323	ton	\$ 291.00	\$ 384.99	\$ 31.56	\$ 34.44
MATERIALS	Seed (hay)	200	lb	\$ 0.83	\$ 166.00	\$ 13.61	\$ 14.85
MATERIALS	Soil test	1	each	\$ 10.00	\$ 10.00	\$ 0.82	\$ 0.89
EQUIPMENT/ INSTALLATION	plowing	14	hr	\$ 45.00	\$ 630.00	\$ 51.64	\$ 56.36
EQUIPMENT/ INSTALLATION	power harrow	42	hr	\$ 45.00	\$ 1,890.00	\$ 154.92	\$ 169.08
EQUIPMENT/ INSTALLATION	Lime spreading	9	hr	\$ 35.00	\$ 315.00	\$ 25.82	\$ 28.18
EQUIPMENT/ INSTALLATION	Fertilizer spreading and seeding	10	hr	\$ 35.00	\$ 350.00	\$ 28.69	\$ 31.31
LABOR	picking rocks	6	hr	\$ 9.00	\$ 54.00	\$ 4.43	\$ 4.83
LABOR	labor (miscellaneous)	6	hr	\$ 9.00	\$ 54.00	\$ 4.43	\$ 4.83
Total					\$ 5,367.59	\$ 439.97	\$ 480.18
Scenario 2: 12 acre pasture planting, includes lime, fertilizer, rock picking. No tillage.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Pasture & Hayland Planting (512)	7412185A387A	Jun-05	12.2	acre	Aroostook (FK)		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Lime	17.6	ton	\$ 86.00	\$ 1,513.60	\$ 124.07	\$ 135.41
MATERIALS	Fertilizer	1.323	ton	\$ 291.00	\$ 384.99	\$ 31.56	\$ 34.44
MATERIALS	Seed (hay)	200	lb	\$ 0.83	\$ 166.00	\$ 13.61	\$ 14.85
MATERIALS	Soil test	1	each	\$ 10.00	\$ 10.00	\$ 0.82	\$ 0.89
EQUIPMENT/ INSTALLATION	Lime spreading	9	hr	\$ 35.00	\$ 315.00	\$ 25.82	\$ 28.18
EQUIPMENT/ INSTALLATION	Fertilizer spreading and seeding	10	hr	\$ 35.00	\$ 350.00	\$ 28.69	\$ 31.31
LABOR	picking rocks	6	hr	\$ 9.00	\$ 54.00	\$ 4.43	\$ 4.83
LABOR	labor (miscellaneous)	6	hr	\$ 9.00	\$ 54.00	\$ 4.43	\$ 4.83
Total					\$ 2,847.59	\$ 233.41	\$ 254.74

<b>Cost Data</b>							
Scenario: Growing row crops, forages, small grains, or fallow in a systematic arrangement of equal width strips across a field for the purposes of: reducing soil erosion from water and transport of sediment and other water-borne contaminants, reducing soil erosion from wind, protecting crops from damage by wind-borne soil particles. For this scenario, assume 25% increase in time (labor/machinery costs) to account for increased time to farm on countour. Hourly costs are from University of Maine crop enterprise budget for potato production.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Stripcropping (585)	none	Jan-04	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Increased machinery/labor cost	1	acre	\$ 42.55	\$ 42.55	\$ 42.55	\$ 49.04
					\$ -	\$ -	\$ -
Total					\$ 42.55	\$ 42.55	\$ 49.04

Cost Data							
Scenario 1: Utilizing environmentally sensitive prevention, avoidance, monitoring and suppression strategies, to manage weeds, insects, diseases, animals and other organisms (including invasive and non-invasive species), that directly or indirectly cause damage or annoyance. Chemical control of invasive exotics with a backpack sprayer - spot spray.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Pest Management (595)	none	Jul-07	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
LABOR	Labor	3	hr	\$ 50.00	\$ 150.00	\$ 150.00	\$ 150.00
MATERIALS	Pesticide	0.25	gallon	\$ 45.00	\$ 11.25	\$ 11.25	\$ 11.25
Total					\$ 161.25	\$ 161.25	\$ 161.25
Scenario 2: Phragmites control using herbicides and positrac brushhogging. Cost from USCOE Dunstan Marsh, and actual Millbrook Project, Cumberland, ME.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Pest Management (595)	none	Jul-07	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	chemical control and positrac brushhoggin				\$ 1,410.00	\$ 1,410.00	\$ 1,410.00
Total					\$ 1,410.00	\$ 1,410.00	\$ 1,410.00

<b>Cost Data</b>							
Scenario 1: Establishing woody plants by planting seedlings or cuttings, direct seeding, or natural regeneration. This scenario assumes planting trees with shelters and mats at 10' x 10' spacing.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Tree/Shrub Establishment (612)	none	Jun-02	1	Acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Trees	436	each	\$ 1.50	\$ 654.00	\$ 654.00	\$ 813.84
MATERIALS	Tree shelters with stakes	436	each	\$ 3.00	\$ 1,308.00	\$ 1,308.00	\$ 1,627.68
MATERIALS	Mats and pins	436	each	\$ 1.50	\$ 654.00	\$ 654.00	\$ 813.84
LABOR	Planting labor	436	plant	\$ 1.50	\$ 654.00	\$ 654.00	\$ 813.84
Total					\$ 3,270.00	\$ 3,270.00	\$ 4,069.19
Scenario 2: Planting trees with mats only at 10' x 10' spacing.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Tree/Shrub Establishment (612)	none	Jun-02	1	Acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Trees	436	each	\$ 1.50	\$ 654.00	\$ 654.00	\$ 813.84
MATERIALS	Mats and pins	436	each	\$ 1.50	\$ 654.00	\$ 654.00	\$ 813.84
LABOR	Planting labor	436	plant	\$ 1.50	\$ 654.00	\$ 654.00	\$ 813.84
Total					\$ 1,962.00	\$ 1,962.00	\$ 2,441.51
Scenario 3: Planting trees at 10' x 10' spacing, no shelters or mats.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Tree/Shrub Establishment (612)	none	Jun-02	1	Acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Trees	436	each	\$ 1.50	\$ 654.00	\$ 654.00	\$ 813.84
LABOR	Planting labor	436	plant	\$ 1.50	\$ 654.00	\$ 654.00	\$ 813.84
Total					\$ 1,308.00	\$ 1,308.00	\$ 1,627.68
Scenario 4: Planting all shrubs without shelters or mats, 6' x 6' spacing.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Tree/Shrub Establishment (612)	none	Jun-02	1	Acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Shrubs	1210	each	\$ 1.50	\$ 1,815.00	\$ 1,815.00	\$ 2,258.59
LABOR	Planting labor	1210	plant	\$ 1.50	\$ 1,815.00	\$ 1,815.00	\$ 2,258.59
Total					\$ 3,630.00	\$ 3,630.00	\$ 4,517.17
Scenario 5: Planting trees in an area where none existed (such as an old field). Data provided by Maine Forest Service from an actual planting performed in Newport in 2005.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Tree/Shrub Establishment (612)	none	Jun-05	9	Acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	hardwoods	200	each	\$ 1.66	\$ 332.00	\$ 36.89	\$ 45.90
LABOR	Planting labor				\$ 750.00	\$ 83.33	\$ 103.70
MATERIALS	conifers	3000	each	\$ 0.21	\$ 630.00	\$ 70.00	\$ 87.11
MATERIALS	sets of mats, shelters, and stakes	165	set	\$ 3.15	\$ 519.75	\$ 57.75	\$ 71.86
Total					\$ 2,231.75	\$ 247.97	\$ 308.58

Cost Data							
Scenario 1: Provide and manage upland habitats and connectivity within the landscape for wildlife. This scenario is the creation of brush piles (the payment unit is each individual brush pile).							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Upland Wildlife Habitat Management (645)	none	Jan-06	1	each	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
LABOR	Chainsaw operator	4	hr	\$ 15.00	\$ 60.00	\$ 60.00	\$ 63.04
EQUIPMENT/ INSTALLATION	Chainsaw	4	hr	\$ 3.00	\$ 12.00	\$ 12.00	\$ 12.61
LABOR	Helper	4	hr	\$ 15.00	\$ 60.00	\$ 60.00	\$ 63.04
Total					\$ 132.00	\$ 132.00	\$ 138.68
Scenario 2: Heavy mechanical shrub/tree management (brontosaurus, hydro-axe). Cost was estimated at \$1,000 per acre in 2006. Brontosaurus is a tracked excavator with a mounted mower on the boom.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Upland Wildlife Habitat Management (645)	none	Jan-06	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	machinery	8	hr	\$ 65.00	\$ 520.00	\$ 520.00	\$ 546.31
LABOR	labor	8	hr	\$ 35.00	\$ 280.00	\$ 280.00	\$ 294.17
MOBILIZATION	mobilization				\$ 200.00	\$ 200.00	\$ 210.12
Total					\$ 1,000.00	\$ 1,000.00	\$ 1,050.60
Scenario 3: Creation of snag trees (girdling). 2 person crew, one with chainsaw to create snags for wildlife.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Upland Wildlife Habitat Management (645)	none	Jan-06	1	each	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
LABOR	Chainsaw operator	4	hr	\$ 15.00	\$ 60.00	\$ 60.00	\$ 63.04
EQUIPMENT/ INSTALLATION	Chainsaw	4	hr	\$ 3.00	\$ 12.00	\$ 12.00	\$ 12.61
LABOR	Helper	4	hr	\$ 15.00	\$ 60.00	\$ 60.00	\$ 63.04
Total					\$ 132.00	\$ 132.00	\$ 138.68
Scenario 4: Nest boxes							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Upland Wildlife Habitat Management (645)	none	Jan-06	1	each	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Nest box	1	each	\$ 120.00	\$ 120.00	\$ 120.00	\$ 126.07
LABOR	Labor to install	1	hr	\$ 16.00	\$ 16.00	\$ 16.00	\$ 16.81
Total					\$ 136.00	\$ 136.00	\$ 142.88
Scenario 5: Leave 10% or more of crop in strips for wildlife. Silage corn - 18.5 ton yield, \$29/ton in 2005 - update to \$31/ton in 2007. Subtract out harvest costs (estimated @ \$3.85/ton in 2001 - update to \$4.80/ton in 2007). \$31-\$4.80 = \$26.20/ton. This just applies to the acres left standing, not the whole acreage.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Upland Wildlife Habitat Management (645)	none	Jan-07	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
FORGONE INCOME	Lost revenue - harvest cost	18.5	ton	\$ 26.20	\$ 484.70	\$ 484.70	\$ 484.70
Total					\$ 484.70	\$ 484.70	\$ 484.70

Cost Data							
Scenario 1: Manage early plant succession to benefit desired wildlife or natural communities. This scenario involves light herbaceous/shrub management (light strip-disking and bush-hogging)							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Early Successional Habitat Development/Management (647)	none	Jan-06	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Plow Disc	0.22	hr	\$ 61.40	\$ 13.35	\$ 13.35	\$ 14.02
EQUIPMENT/ INSTALLATION	Tractor (90+ HP)	0.22	hr	\$ 61.26	\$ 13.32	\$ 13.32	\$ 13.99
EQUIPMENT/ INSTALLATION	Tractor (65-89 HP)	0.45	hr	\$ 41.38	\$ 18.81	\$ 18.81	\$ 19.76
EQUIPMENT/ INSTALLATION	6' mower	0.45	hr	\$ 32.49	\$ 14.77	\$ 14.77	\$ 15.52
Total					\$ 60.24	\$ 60.24	\$ 63.29
Scenario 2: Medium mechanical shrub/tree management (tree cutter, chipper, grinder, brush saw). This is a new activity under this practice code, no data available. Cost of \$250 was estimated in 2006. Comparable to Forest Stand Improvement (666) cost.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Early Successional Habitat Development/Management (647)	none	Jan-06	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	machinery	4	hr	\$ 50.00	\$ 200.00	\$ 200.00	\$ 210.12
LABOR	labor	4	hr	\$ 20.00	\$ 80.00	\$ 80.00	\$ 84.05
Total					\$ 280.00	\$ 280.00	\$ 294.17
Scenario 3: Heavy mechanical shrub/tree management (brontosaurus, hydro-axe). Cost was estimated at \$1,000 per acre in 2006. A brontosaurus is a tracked excavator with a mounted mower on the boom.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Early Successional Habitat Development/Management (647)	none	Jan-06	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	machinery	8	hr	\$ 65.00	\$ 520.00	\$ 520.00	\$ 546.31
LABOR	labor	8	hr	\$ 35.00	\$ 280.00	\$ 280.00	\$ 294.17
MOBILIZATION	mobilization				\$ 200.00	\$ 200.00	\$ 210.12
Total					\$ 1,000.00	\$ 1,000.00	\$ 1,050.60
Scenario 4: Site prep, soil amendments & planting of conservation mix (same as Conservation Cover (327)).							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Early Successional Habitat Development/Management (647)	7212185A275	Oct-05	1	acre	Somerset		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	ATV with disc harrow	12	hr	\$ 15.00	\$ 180.00	\$ 180.00	\$ 196.45
LABOR	labor	6	hr	\$ 10.00	\$ 60.00	\$ 60.00	\$ 65.48
MATERIALS	Hay for seed and mulch	25	bale	\$ 1.40	\$ 35.00	\$ 35.00	\$ 38.20
MATERIALS	Seed (cons mix w/ annual rye)	100	lb	\$ 1.12	\$ 112.00	\$ 112.00	\$ 122.24
Total					\$ 387.00	\$ 387.00	\$ 422.37
Scenario 5: Site prep, soil amendments & planting of native species or wildflower mix							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Early Successional Habitat Development/Management (647)	none	Jan-06	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Native wildflower mix northeast	17.5	lb	\$ 57.95	\$ 1,014.13	\$ 1,014.13	\$ 1,065.44
EQUIPMENT/ INSTALLATION	Disk Harrow 16' (2 times)	0.26	hr	\$ 130.10	\$ 33.36	\$ 33.36	\$ 35.05
EQUIPMENT/ INSTALLATION	Tractor (65-89 HP)	0.26	hr	\$ 41.38	\$ 10.61	\$ 10.61	\$ 11.15
EQUIPMENT/ INSTALLATION	Grain Drill-16 Tube	0.37	hr	\$ 75.35	\$ 27.91	\$ 27.91	\$ 29.32
EQUIPMENT/ INSTALLATION	Tractor (35-49 HP)	0.37	hr	\$ 23.72	\$ 8.79	\$ 8.79	\$ 9.23
Total					\$ 1,094.79	\$ 1,094.79	\$ 1,150.18
Scenario 6: Delay mowing/harvest on hayland. The effect of this activity will be to reduce the quality and value of the hay from \$100/ton to \$40/ton. The loss in value (\$60/ton) is forgone income.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Early Successional Habitat Development/Management (647)	none	Jan-06	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
FORGONE INCOME	Reduced hay value (\$100/T - \$40/T)	2.5	ton	\$ 60.00	\$ 150.00	\$ 150.00	\$ 157.59
Total					\$ 150.00	\$ 150.00	\$ 157.59
Scenario 7: Mowing on grassland for grassland bird habitat.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Early Successional Habitat Development/Management (647)	none	Jan-06	10	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Tractor (90+ HP)	4.50	hr	\$ 61.26	\$ 275.67	\$ 27.57	\$ 28.96
EQUIPMENT/ INSTALLATION	6' mower (with \$25/hr labor)	4.50	hr	\$ 45.49	\$ 204.71	\$ 20.47	\$ 21.51
MOBILIZATION	Move equipment to site with truck	1.00	hr	\$ 55.00	\$ 55.00	\$ 5.50	\$ 5.78
Total					\$ 535.38	\$ 53.54	\$ 56.25

Cost Data							
Scenario 1: A temporary or infrequently used route, path or cleared area within a forest to provide access to forest stands for management activities, and/or removal and collection of forest products. This scenario is 450 feet of ditch constructed, 24 cy of crushed stone, 126 cy of gravel, and 3 18" culverts. Culvert costs are excluded because these are now part of the Stream Crossing (578) standard.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Forest Trail and Landing (655)	20010055	Nov-01	450.0	feet	Knox/Lincoln		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	dump truck	9.5	hr	\$ 35.00	\$ 332.50	\$ 0.74	\$ 0.92
EQUIPMENT/ INSTALLATION	excavator	9.5	hr	\$ 85.00	\$ 807.50	\$ 1.79	\$ 2.24
LABOR	labor	28.5	hr	\$ 20.00	\$ 570.00	\$ 1.27	\$ 1.58
MATERIALS	6"-8" crushed stone	24	cy	\$ 21.00	\$ 504.00	\$ 1.12	\$ 1.40
MATERIALS	gravel (18 loads, 7 cy per load)	126	cy	\$ 2.50	\$ 315.00	\$ 0.70	\$ 0.88
Total					\$ 2,529.00	\$ 5.62	\$ 7.03
Scenario 2: This scenario is 450 feet of ditch constructed, 24 cy of crushed stone, 126 cy of gravel, and 3 18" culverts. Culvert costs are excluded because these are now part of the Stream Crossing (578) standard. 5 water bars and geotextile fabric are added.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Forest Trail and Landing (655)	20010055	Nov-01	450.0	feet	Knox/Lincoln		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	dump truck	9.5	hr	\$ 35.00	\$ 332.50	\$ 0.74	\$ 0.92
EQUIPMENT/ INSTALLATION	excavator	9.5	hr	\$ 85.00	\$ 807.50	\$ 1.79	\$ 2.24
LABOR	labor	28.5	hr	\$ 20.00	\$ 570.00	\$ 1.27	\$ 1.58
MATERIALS	6"-8" crushed stone	24	cy	\$ 21.00	\$ 504.00	\$ 1.12	\$ 1.40
MATERIALS	gravel (18 loads, 7 cy per load)	126	cy	\$ 2.50	\$ 315.00	\$ 0.70	\$ 0.88
EQUIPMENT/ INSTALLATION	water bars	5	each	\$ 200.00	\$ 1,000.00	\$ 2.22	\$ 2.22
MATERIALS	woven geotextile fabric	5400	sf	\$ 0.20	\$ 1,080.00	\$ 2.40	\$ 2.40
Total					\$ 4,609.00	\$ 10.24	\$ 11.65
Scenario 3: Repair landing 1/3 acre in size. Verified with professional forester in western Maine 6/6/07.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Forest Trail and Landing (655)	none	Jan-06	0.3	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MOBILIZATION	Bulldozer mobilization	1	each	\$ 200.00	\$ 200.00	\$ 666.67	\$ 686.67
EQUIPMENT/ INSTALLATION	Bulldozer	4	hr	\$ 85.00	\$ 340.00	\$ 1,133.33	\$ 1,167.33
Total					\$ 540.00	\$ 1,800.00	\$ 1,854.00

<b>Cost Data</b>							
Scenario: The removal of all or part of selected branches, leaders or roots from trees and shrubs. The contract described below is used for 3 scenarios developed for this practices. The scenarios were developed with the Maine Forest Service.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Tree/Shrub Pruning (660)	7212184A056	Mar-06	320	tree	Washington		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
LABOR	Labor	32	hr	\$ 12.00	\$ 384.00	\$ 1.20	\$ 1.24
LABOR	Labor (operate chainsaw)	40	hr	\$ 12.00	\$ 480.00	\$ 1.50	\$ 1.55
EQUIPMENT/ INSTALLATION	Chainsaw	40	hr	\$ 3.00	\$ 120.00	\$ 0.38	\$ 0.39
Total					\$ 984.00	\$ 3.08	\$ 3.17

Cost Data							
Scenarios 1 - 4. The manipulation of species composition, stand structure and stocking by cutting or killing selected trees and understory vegetation. Scenarios 1 through 4 involve thinning sapling stands for timber, crop or mast release, or removal of invasive species.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Forest Stand Improvement (666)	none	Jan-06	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Chainsaw	6	hr	\$ 4.00	\$ 24.00	\$ 24.00	\$ 24.72
LABOR	Hired labor - operating chainsaw	6	hr	\$ 31.00	\$ 186.00	\$ 186.00	\$ 191.58
LABOR	Miscellaneous labor - travel	3	hr	\$ 31.00	\$ 93.00	\$ 93.00	\$ 95.79
Total					\$ 303.00	\$ 303.00	\$ 312.09
Cost data provided by Maine Forest Service for types of Forest Stand Improvement							
Type	Unit	Unit Cost	Current (Indexed) Practice Unit Cost				
Precommercial thinning of sapling stands for wildlife cover	acre	\$ 350.00	\$ 365.15				
Sanitation cutting of infected and declining stands, high intensity	acre	\$ 524.58	\$ 546.16				
Sanitation cutting of infected and declining stands, low intensity	acre	\$ 1,183.25	\$ 1,248.36				
Scenario 5: Apple tree release - landowner performs work, clears limbs. This is used for Scenario 5.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Upland Wildlife Habitat Management (645)	none	Jan-06	1	tree	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Chainsaw	1	hr	\$ 4.00	\$ 4.00	\$ 4.00	\$ 4.12
LABOR	Labor - operate chainsaw	1	hr	\$ 16.00	\$ 16.00	\$ 16.00	\$ 16.48
Total					\$ 20.00	\$ 20.00	\$ 20.60

This file provides estimates of typical costs for management-type conservation practices. Actual costs for specific projects may vary considerably depending on site conditions and location. Where practical and feasible, inputs, quantities, and prices from actual bills were used. Contract numbers are provided, as well as the date installed and the county it was installed in. If a cost estimate has a contract number, it came from bills from an actual job that was installed and payed on. If no contract number is provided, costs were estimated by other means. All costs were updated to July 2007 dollars.

Practice Name	Component	Unit Type	Estimated Total Unit Cost
Brush Management (314)	Flail mowing	acre	\$ 56.25
Comp. Nutrient Mgmt. Plan (100)	25 to 200 AU, less than 100 acres	no.	\$ 8,197.70
	" " 100 to 200 acres	no.	\$ 9,023.84
	" " 201 to 300 acres	no.	\$ 9,849.00
	" " 301 to 550 acres	no.	\$ 11,502.26
	" " more than 550 acres	no.	\$ 13,155.52
	201 to 450 AU, less than 100 acres	no.	\$ 9,022.86
	" " 100 to 200 acres	no.	\$ 9,849.00
	" " 201 to 300 acres	no.	\$ 12,328.40
	" " 301 to 550 acres	no.	\$ 13,980.68
	" " more than 550 acres	no.	\$ 15,633.94
	451 to 850 AU, less than 100 acres	no.	\$ 9,022.86
	" " 100 to 200 acres	no.	\$ 12,328.40
	" " 201 to 300 acres	no.	\$ 12,740.00
	" " 301 to 550 acres	no.	\$ 14,832.30
	" " 551 to 2000 acres	no.	\$ 16,483.60
	Producer management costs	AU	\$ 10.30
Conservation Crop Rotation (328)	Crop Rotation	acre	\$ 127.33
Contour Farming (330)	Contour Farming	acre	\$ 49.04
Cover Crop (340)	Cover Crop	acre	\$ 67.43
Deep Tillage (324)	Deep Tillage	acre	\$ 40.91
Mulching (484)	Hay or straw	acre	\$ 297.53
	Wood mulch	1000sf	\$ 343.34
Nutrient Management (590)	Nutrient management	acre	\$ 27.70
Pest Management (595)	Crop fields	acre	\$ 40.17
	IPM on vegetables	acre	\$ 158.27
Prescribed Forestry (409)	10 to 50 acres	acre	\$ 32.26
	Greater than 50 acres	acre	\$ 14.73
Prescribed Grazing (528)	Prescribed Grazing	acre	\$ 33.48
Residue & Tillage Mgmt., No Till/Strip Till/Direct Seed (329)	No Till/Strip Till/Direct Seed	acre	\$ 56.90
Residue Management, Mulch Till (345)	Mulch Till	acre	\$ 56.90
Residue Management, Seasonal (344)	Seasonal residue management	acre	\$ 56.90
Ridge Till (346)	Ridge Till	acre	\$ 56.90
Transition to Organic Production (789)	Crops	acre	\$ 156.30
	Livestock	AU	\$ 163.86
Waste Utilization (633)	Waste Utilization	acre	\$ 40.91

Cost Data							
<p>A plan designed to address, at a minimum, the soil erosion and water quality concerns of livestock operations. A CNMP is a grouping of Conservation Practices and management activities which, when implemented as part of a conservation system, will help to ensure that both production and natural resource protection goals are achieved. It will consider the following six elements: manure and wastewater handling and storage, land treatment, nutrient management, record keeping, feed management, and other utilization activities such as composting, solids removal, etc. The costs and scenarios are defined by a federal supply schedule price list, contract number GS-10F-0346T, contract period 8/27/07 to 8/26/12.</p>							
Comprehensive Nutrient Management Plan (100)							
Scenarios	Animal Units	Acres	GSA Price per CNMP				
1 through 5	25 to 200	<100	\$ 8,197.70				
		100-200	\$ 9,023.84				
		201-300	\$ 9,849.00				
		301-550	\$11,502.26				
		>550	\$ 13,155.52				
6 through 10	201 to 450	<100	\$ 9,022.86				
		100-200	\$ 9,849.00				
		201-300	\$12,328.40				
		301-550	\$ 13,980.68				
		>550	\$ 15,633.94				
11 through 15	451 to 850	<100	\$ 9,022.86				
		100-200	\$12,328.40				
		201-300	\$12,740.00				
		301-550	\$ 14,832.30				
		>550-2000	\$ 16,483.60				
<p>Scenario 16: Costs associated with CNMP development. Assume 100 acre dairy farm, with approximately 80 AU (44 cows, 15 heifers, 15 calves). Soil tests on all fields (assume 10 fields, average field size 10 acres). Management time includes time to collect soil and manure samples, correlate samples with NRCS tract information, etc.</p>							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Comp. Nutrient Mgmt. Plan (100)	none	Jan-07	80	AU	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
ACQ OF TECH KNOWLEDGE	Soil tests (standard test)	15	sample	\$ 12.00	\$ 180.00	\$ 2.25	\$ 2.25
ACQ OF TECH KNOWLEDGE	Manure test	1	sample	\$ 20.00	\$ 20.00	\$ 0.25	\$ 0.25
LABOR	Management time	24	hr	\$ 26.00	\$ 624.00	\$ 7.80	\$ 7.80
Total					\$ 824.00	\$ 10.30	\$ 10.30

<b>Cost Data</b>							
Scenario: Removal, reduction, or manipulation of non-herbaceous plants to protect life and property from wildfire hazards primarily on blueberry cropland.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Brush Management (314)	none	Jan-06	10	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Tractor (90+ HP)	4.50	hr	\$ 61.26	\$ 275.67	\$ 27.57	\$ 28.96
EQUIPMENT/ INSTALLATION	6' mower (with \$25/hr labor)	4.50	hr	\$ 45.49	\$ 204.71	\$ 20.47	\$ 21.51
MOBILIZATION	Move equipment to site with truck	1.00	hr	\$ 55.00	\$ 55.00	\$ 5.50	\$ 5.78
Total					\$ 535.38	\$ 53.54	\$ 56.25

Cost Data							
Scenario: Performing tillage operations below the normal tillage depth to modify the physical or chemical properties of a soil. Tillage equipment such as chisels, subsoilers, bent-leg subsoilers, or rippers, with the ability to reach the required depth shall be used. Chiseling is used to fracture restrictive soil layers that are less than 16 inches deep. This scenario includes a chisel plow with 90+ horsepower tractor.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Deep Tillage (324)	none	Jan-06	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Tractor - 90+ HP	0.43	hour	\$ 61.26	\$ 26.63	\$ 26.63	\$ 27.98
EQUIPMENT/ INSTALLATION	Chisel Plow	0.43	hour	\$ 13.31	\$ 5.79	\$ 5.79	\$ 6.08
LABOR	Labor	0.43	hour	\$ 15.00	\$ 6.52	\$ 6.52	\$ 6.85
Total					\$ 38.94	\$ 38.94	\$ 40.91



<b>Cost Data</b>							
Scenario: Managing the amount, orientation and distribution of crop and other plant residue on the soil surface year round while limiting soil-disturbing activities to only those necessary to place nutrients, condition residue and plant crops. 100 acres of silage corn, 18.5 ton yield, \$31/ton value. With this practice, over time, input costs should be lower but risk of yield reduction in first year is assumed while the operator learns this system. According to research at University of Guelph, Ontario, there was an 8% reduction in yield in no-till with an older planter vs. with a newer planter. This will be used as an estimate of potential cost of learning this system in startup years. Assume 40 hours to research tillage implements or attachments.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Residue & Tillage Mgmt., No Till/Strip Till/Direct Seed (329)	none	Jan-07	100	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
RISK	Reduced rev. (8% x 18.5 tons x 100 ac.)	150	ton	\$ 31.00	\$4,650.00	\$ 46.50	\$ 46.50
ACQ OF TECH KNOWLEDGE	Reseach on tillage implements/equipment	40	hr	\$ 26.00	\$1,040.00	\$ 10.40	\$ 10.40
					\$ -	\$ -	\$ -
<b>Total</b>					<b>\$5,690.00</b>	<b>\$ 56.90</b>	<b>\$ 56.90</b>

Cost Data							
Scenario: Tillage, planting, and other farming operations performed on or near the contour of the field slope to reduce sheet and rill erosion or to reduce transport of sediment and other water-borne contaminants. Assume 25% increase in time (labor and machinery costs) to account for increased time to farm on the contour. Costs per acre are from a University of Maine crop enterprise budget for potatoes. It was felt that 25% was a reasonable estimate of increased time to farm in different pattern on the field (for each hour, an added 15 minutes).							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Contour Farming (330)	none	Jan-04	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Increased machinery/labor cost	1	acre	\$ 42.55	\$ 42.55	\$ 42.55	\$ 49.04
					\$ -	\$ -	\$ -
Total					\$ 42.55	\$ 42.55	\$ 49.04

<b>Cost Data</b>							
Scenario: Grasses, legumes, forbs, or other herbaceous plants established for seasonal cover and other conservation purposes. Farm machinery costs are from the Maine Farm Planning Guide (updated to 2007 dollars). Labor is included in the implement costs.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Cover Crop (340)	none	Jan-07	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Rye grass	30	lb	\$ 1.10	\$ 33.00	\$ 33.00	\$ 33.00
EQUIPMENT/ INSTALLATION	Broadcast seeding	0.21	hr	\$ 40.63	\$ 8.64	\$ 8.64	\$ 8.64
EQUIPMENT/ INSTALLATION	Tractor (35-49 HP)	0.21	hr	\$ 23.72	\$ 5.05	\$ 5.05	\$ 5.05
EQUIPMENT/ INSTALLATION	Disk Harrow 13'	0.16	hr	\$ 97.96	\$ 15.55	\$ 15.55	\$ 15.55
EQUIPMENT/ INSTALLATION	Tractor (50-64 HP)	0.16	hr	\$ 32.69	\$ 5.19	\$ 5.19	\$ 5.19
Total					\$ 67.43	\$ 67.43	\$ 67.43

<b>Cost Data</b>							
Scenario: Managing the amount, orientation, and distribution of crop and other plant residues on the soil surface during a specified period of the year, while planting annual crops on a clean-tilled seedbed, or when growing biennial or perennial seed crops. For this scenario, assume 100 acres of silage corn, 18.5 ton yield, \$31/ton value. With this practice, over time, input costs should be lower but risk of yield reduction in first year is assumed while the operator learns this system. According to research at University of Guelph, Ontario, there was an 8% reduction in yield in no-till with an older planter vs. with a newer planter. This will be used as an estimate of potential cost of learning this system in startup years. Assume 40 hours to research tillage implements or attachments.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Residue Management, Seasonal (344)	none	Jan-07	100	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
RISK	Reduced rev. (8% x 18.5 tons x 100 ac.)	150	ton	\$ 31.00	\$ 4,650.00	\$ 46.50	\$ 46.50
ACQ OF TECH KNOWLEDGE	Reseach on tillage implements/equipment	40	hr	\$ 26.00	\$ 1,040.00	\$ 10.40	\$ 10.40
Total					\$ 5,690.00	\$ 56.90	\$ 56.90

<b>Cost Data</b>							
Scenario: Managing the amount, orientation and distribution of crop and other plant residue on the soil surface year round while limiting the soil-disturbing activities used to grow crops in systems where the entire field surface is tilled prior to planting, using implements such as discs, chisels, and sweeps. For this scenario, assume 100 acres of silage corn, 18.5 ton yield, \$31/ton value. With this practice, over time, input costs should be lower but risk of yield reduction in first year is assumed while the operator learns this system. According to research at University of Guelph, Ontario, there was an 8% reduction in yield in no-till with an older planter vs. with a newer planter. This will be used as an estimate of potential cost of learning this system in startup years. Assume 40 hours to research tillage implements or attachments.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Residue Management, Mulch Till (345)	none	Jan-07	100	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
RISK	Reduced rev. (8% x 18.5 tons x 100 ac.)	150	ton	\$ 31.00	\$ 4,650.00	\$ 46.50	\$ 46.50
ACQ OF TECH KNOWLEDGE	Reseach on tillage implements/equipment	40	hr	\$ 26.00	\$ 1,040.00	\$ 10.40	\$ 10.40
Total					\$ 5,690.00	\$ 56.90	\$ 56.90

<b>Cost Data</b>							
Scenario: Managing the amount, orientation, and distribution of crop and other plant residues on the soil surface year-round, while growing crops on pre-formed ridges alternated with furrows protected by crop residue. For this scenario, assume 100 acres of silage corn, 18.5 ton yield, \$31/ton value. With this practice, over time, input costs should be lower but risk of yield reduction in first year is assumed while the operator learns this system. According to research at University of Guelph, Ontario, there was an 8% reduction in yield in no-till with an older planter vs. with a newer planter. This will be used as an estimate of potential cost of learning this system in startup years. Assume 40 hours to research tillage implements or attachments.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Ridge Till (346)	none	Jan-07	100	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
RISK	Reduced rev. (8% x 18.5 tons x 100 ac.)	150	ton	\$ 31.00	\$ 4,650.00	\$ 46.50	\$ 46.50
ACQ OF TECH KNOWLEDGE	Reseach on tillage implements/equipment	40	hr	\$ 26.00	\$ 1,040.00	\$ 10.40	\$ 10.40
Total					\$ 5,690.00	\$ 56.90	\$ 56.90

<b>Cost Data</b>							
Scenario 1: Manage forested areas for forest health, wood and/or fiber, water, recreation, aesthetics, wildlife habitat and plant biodiversity. This scenario is ten to fifty acre forested tract, prescribed forestry plan completed by private forester. Based on average cost of WoodsWise forestry plan data provided by Maine Forest Service.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Prescribed Forestry (409)	none	Jan-06	25	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
ACQ OF TECH KNOWLEDGE	Forestry plan	25	acre	\$ 32.00	\$ 800.00	\$ 32.00	\$ 32.96
ADMINISTRATION & PERMIT COST	Admin costs to meet specs				\$ 80.00	\$ 3.20	\$ 3.30
					\$ -	\$ -	\$ -
Total					\$ 880.00	\$ 35.20	\$ 36.26
Scenario 2: Fifty or more acre forested tract, prescribed forestry plan completed by private forester. Based on average cost of WoodsWise forestry plan data provided by Maine Forest Service.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Prescribed Forestry (409)	none	Jan-06	125	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
ACQ OF TECH KNOWLEDGE	Forestry plan	125	acre	\$ 13.00	\$ 1,625.00	\$ 13.00	\$ 13.39
ADMINISTRATION & PERMIT COST	Admin costs to meet specs				\$ 162.50	\$ 1.30	\$ 1.34
					\$ -	\$ -	\$ -
Total					\$ 1,787.50	\$ 14.30	\$ 14.73

Cost Data							
Scenario 1: Applying plant residues, by-products or other suitable materials produced off site, to the land surface to conserve soil moisture, moderate soil temperature, provide erosion control, suppress weed growth, establish vegetative cover, improve soil condition and increase soil fertility. For this scenario, assume 1/10 of an acre (4,356 sf), fine wood mulch 2 inches deep, bulk price from hardware store. Store charges by tractor bucket load (\$26.75 per 3/4 cyd bucket). Total cf of mulch needed (4,356 sf x .17 ft = 726 cf). Delivered by 18 cyd capacity dump truck.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Mulching (484)	none	Jun-07	0.1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	premium mulch	726	cf	\$ 1.40	\$ 1,019.58	\$ 10,195.76	\$ 10,195.76
EQUIPMENT/ INSTALLATION	Dump truck (1.5 loads)	4	hr	\$ 55.00	\$ 220.00	\$ 2,200.00	\$ 2,200.00
LABOR	Labor to spread	16	hr	\$ 16.00	\$ 256.00	\$ 2,560.00	\$ 2,560.00
Total					\$ 1,495.58	\$ 14,955.76	\$ 14,955.76
Total per thousand square feet						\$ 343.34	\$ 343.34
Scenario 2: Hay or straw air-dried; free of undesirable seeds and course materials - use average of application rates recommended in standard. Hay price from New England NASS (Annual Statistical Bulletin for 2005).							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Mulching (484)	none	Jan-05	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	dry hay	1.75	ton	\$ 139.00	\$ 243.25	\$ 243.25	\$ 265.48
EQUIPMENT/ INSTALLATION	self unload wagon and tractor	0.5	hr	\$ 61.00	\$ 30.50	\$ 30.50	\$ 32.04
Total					\$ 273.75	\$ 273.75	\$ 297.53

Cost Data							
Scenario: Managing the controlled harvest of vegetation with grazing animals in order to improve or maintain the health and vigor of plant communities, improve or maintain quantity and quality of forage for livestock health and productivity, improve or maintain water quality and quantity, reduce accelerated soil erosion, and maintain or improve soil condition, improve or maintain the quantity and quality of food and/or cover available for wildlife, and promote economic stability through grazing land sustainability. For this scenario, assume 100 acre dairy farm, 8 hours per week management time per season, 25 weeks per season, \$26/hr farm manager time.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Prescribed Grazing (528)	none	May-06	100	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
LABOR	Management/labor to move animals	125	hr	\$ 26.00	\$ 3,250.00	\$ 32.50	\$ 33.48
Total					\$ -	\$ -	\$ -
					\$ 3,250.00	\$ 32.50	\$ 33.48

Cost Data							
Scenario : Managing the amount, source, placement, form and timing of the application of nutrients and soil amendments. For this scenario, assume 100 acre farm. Soil tests on all fields (assume 10 fields, average field size 10 acres). Management time includes time to collect soil and manure samples, interpret results, and manage the amount, source, placement, form, and timing of all nutrients and soil amendments.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Nutrient Management (590)	none	Jan-07	100	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
ACQ OF TECH KNOWLEDGE	Soil tests (standard test)	10	sample	\$ 12.00	\$ 120.00	\$ 1.20	\$ 1.20
ACQ OF TECH KNOWLEDGE	Manure test	1	sample	\$ 20.00	\$ 20.00	\$ 0.20	\$ 0.20
LABOR	Management time	80	hr	\$ 26.00	\$2,080.00	\$ 20.80	\$ 20.80
ACQ OF TECH KNOWLEDGE	Hired consultant	10	hr	\$ 55.00	\$ 550.00	\$ 5.50	\$ 5.50
Total					\$2,770.00	\$ 27.70	\$ 27.70

Cost Data							
Scenario 1: Utilizing environmentally sensitive prevention, avoidance, monitoring and suppression strategies, to manage weeds, insects, diseases, animals and other organisms (including invasive and non-invasive species), that directly or indirectly cause damage or annoyance. Crop fields - scout field in "X" pattern, inspect at least 50 plants (based on UME recommendations).							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Pest Management (595)	none	May-06	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
LABOR	Scouting on foot by manager	1.5	hr	\$ 26.00	\$ 39.00	\$ 39.00	\$ 40.17
					\$ -	\$ -	\$ -
Total					\$ 39.00	\$ 39.00	\$ 40.17
Scenario 2: IPM on vegetable fields. Small diversified vegetable operation. 5 acres of mixed vegetables. Crops rotated on small fields or portions of fields. Assume 2 fields. Develop Pets Man Plan with an IPM plan component to reduce pesticide inputs. Farm manager's time is 2 hours per week x 12 weeks, \$26/hour. Rotate to cover crop 1 year out of 3 (this will be under Cover Crop (327)).							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Pest Management (595)	none	Jul-07	5	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
ACQ OF TECH KNOWLEDGE	soil test	2	each	\$ 20.00	\$ 40.00	\$ 8.00	\$ 8.00
MATERIALS	insect traps (1 per acre) - spread over 3 yr	5	each	\$ 50.00	\$ 250.00	\$ 16.67	\$ 16.67
LABOR	weather monitoring and record keeping	24	hr	\$ 26.00	\$ 624.00	\$ 124.80	\$ 124.80
ACQ OF TECH KNOWLEDGE	New England Vegetable Guide - spd over 3	1	each	\$ 15.00	\$ 15.00	\$ 1.00	\$ 1.00
LABOR	Scouting on foot by manager	1.5	hr	\$ 26.00	\$ 39.00	\$ 7.80	\$ 7.80
Total					\$ 968.00	\$ 158.27	\$ 158.27

<b>Cost Data</b>							
Scenario: Using agricultural wastes such as manure and wastewater or other organic residues to: protect water quality, provide fertility for crop, forage, fiber production and forest products, improve or maintain soil structure; provide feedstock for livestock, or provide a source of energy. For this scenario, assume chisel plowing of manure into soil.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Waste Utilization (633)	none	Jan-06	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
EQUIPMENT/ INSTALLATION	Tractor - 90+ HP	0.43	hour	\$ 61.26	\$ 26.63	\$ 26.63	\$ 27.98
EQUIPMENT/ INSTALLATION	Chisel Plow	0.43	hour	\$ 28.31	\$ 12.31	\$ 12.31	\$ 12.93
<b>Total</b>					<b>\$ 38.94</b>	<b>\$ 38.94</b>	<b>\$ 40.91</b>

Cost Data							
Scenario 1: Utilize agricultural management strategies while transitioning from conventional to organic farming techniques. The following is an estimate of transitioning costs for a dairy farm from NOFA-VT based on 50 cows and 190 acre land base. 50 cows translates to 70 AU (50 x 1.4). NOFA-VT estimated 50% higher seed costs. University of ME research indicates seed costs at roughly \$30 per cow. Therefore, the higher seed cost is estimated at \$30 x .5 = \$15/cow.							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Transition to Organic Production (789)	none	Jan-03	70	AU	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Feeding organic grain for final 3 months of transition				\$ 6,000.00	\$ 85.71	\$ 104.04
MATERIALS	Preventive health care products & other medications				\$ 1,500.00	\$ 21.43	\$ 26.01
ADMIN & PERMIT COSTS	Organic certification fee				\$ 450.00	\$ 6.43	\$ 7.80
ACQ OF TECH KNOWLEDGE	Consulting - grazing, health care				\$ 750.00	\$ 10.71	\$ 13.01
MATERIALS	Organic seed - assume 50% higher than conventional	50	cow	\$ 15.00	\$ 750.00	\$ 10.71	\$ 13.01
Total					\$ 9,450.00	\$ 135.00	\$ 163.86
Scenario 2 - Transition to organic production on sweet corn. Conventional and organic crop enterprise budgets estimate the difference in per acre costs (\$1,226.40/acre vs. \$1,103.81/acre in 2001).							
Conservation Practice	Contract Number	Date	Size	Unit	County		
Transition to Organic Production (789)	none	Jan-01	1	acre	none		
Cost Category	Item	Quantity of Inputs	Input Unit	Input Unit Cost	Total Cost	Practice Unit Cost	Current (Indexed) Practice Unit Cost
MATERIALS	Increased production cost				\$ 122.59	\$ 122.59	\$ 156.30
Total					\$ 122.59	\$ 122.59	\$ 156.30