

USDA/NRCS/Virginia Average Cost List for FY08

Practice Code	Practice Name	Practice Scenario Description	Units	Estimated Average Cost/Unit <sup>1/</sup>
100	CNMP	CNMP - development & record keeping	No	\$983
313	Waste Storage Facility	Wet Waste - Earthen Pond(CuYdWasteStored)	CuYdWS	\$11.14
313	Waste Storage Facility	Wet Waste - Earthen Pond with a liner	CuYdWS	\$20.00
313	Waste Storage Facility	Wet Waste - Concrete Pit	CuYdWS	\$96
313	Waste Storage Facility	Dry Waste - Earthen Floor	CuYdWS	\$50.19
313	Waste Storage Facility	Dry Waste - Concrete Floor	CuYdWS	\$95
313	Waste Storage Facility	Dry Waste - Earthen Floor/Eastern Shore	CuYdWS	\$38
314	Brush Management	Bush Hogging	Acre	\$16.63
314	Brush Management	Heavy Disking	Acre	\$9.48
314	Brush Management	Rolling Drum Chopper	Acre	\$167
314	Brush Management	Spot Chemical Treatment	Acre	\$49.10
316	Animal Mortality Structure	Dead Poultry Composting Facility	CuYdWS	\$189
316	Animal Mortality Structure	Dead Swine Composting Facility	CuYdWS	\$375
316	Animal Mortality Structure	Dead Poultry Incinerator	No	\$8,432
317	Composting Facility	Concrete Floor Composting Facility	CuYdWS	\$76
327	Conservation Cover-Wildlife	Wildflower Meadow for Wildlife	Acre	\$1,300
327	Conservation Cover-Wildlife	Cropland Conver. to Warm Sea. Grasses (AACs <sup>1/</sup> )	Acre	\$184
328	Conservation Crop Rotation	E001 Continuous No-Fallow (CNF) (AACs)	Acre	\$34.30
328	Conservation Crop Rotation	E010 SCI One Level Increase (AACs)	Acre	\$49.33
328	Conservation Crop Rotation	E011 SCI One Level Increase plus CNF (AACs)	Acre	\$84
328	Conservation Crop Rotation	E0120 SCI Two Level Increase (AACs)	Acre	\$54
328	Conservation Crop Rotation	E021 SCI Two Level Increase plus CNF (AACs)	Acre	\$88
328	Conservation Crop Rotation	E030 SCI Three Level Increase (AACs)	Acre	\$58
328	Conservation Crop Rotation	E031 SCI Three Level Increase plus CNF (AACs)	Acre	\$93
328	Conservation Crop Rotation	E040 Rotate to Perennial(AACs)	Acre	\$120
329	Res. & Tillage Mgt, No-till/Strip-till	E001 Continuous No-Till (AACs)	Acre	\$54
330	Contour Farming	Farming on the Contour	Acre	\$7.50
332	Contour Buffer Strips	Contour Buffer Strips	Acre	\$175
338	Prescribed Burning	Prescribed Burning site prep. 15 acres or less	Acre	\$150
338	Prescribed Burning	Prescribed Burning site prep. > 15 < 40 acres	Acre	\$60
338	Prescribed Burning	Prescribed Burning site prep. > 40 acres	Acre	\$40
338	Prescribed Burning	Pres. Burning wildlife mgt. 15 acres or less	Acre	\$100
338	Prescribed Burning	Pres. Burning wildlife mgt. > 15 < 25 acres	Acre	\$50
338	Prescribed Burning	Pres. Burning wildlife mgt. > 25 acres	Acre	\$40
342	Critical Area Planting	Critical Area Planting	Acre	\$1,355
350	Sediment Basin	Sediment Basin (Earth Moved)	CuYdEM	\$7.73
351	Well Decommissioning	Shallow Well Decommissioning	LnFt	\$18
356	Dike	Earthen Dike	LnFt	\$9
359	Waste Treatment Lagoon	Earthen Lagoon	CuYdWS	\$11.55
360	Closure of Waste Impoundment	Pump-out & Demolition of a Lagoon or Pond	CuYdWS	\$10.48
360	Closure of Waste Impoundment	Pump-out & Demolition of a Concrete Pit	CuYdWS	\$7.95
362	Diversion	Earthen Diversion	LnFt	\$2.38
365	Anaerobic Digester	Covered Lagoon/Dairy	\$/Head	\$390

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365	Anaerobic Digester	Covered Lagoon/Swine	\$/Head	\$101
366	Anaerobic Digester	Plug Flow/Dairy	\$/Head	\$1,386
370	Sinkhole & Sinkhole Area Treat.	Excavate and Dispose of Debris	Ton	\$152
378	Pond	Earthen Pond - Embankment or Dugout	CuYdEM	\$7.67
380	Windbreak/Shelterbelt Est.	Hardwoods	Acre	\$671
380	Windbreak/Shelterbelt Est.	Pines	Acre	\$237
380	Windbreak/Shelterbelt Est.	Mixed Shrubs	Acre	\$1,304
380	Windbreak/Shelterbelt Est.	VEB/Poultry	LnFt	\$3.64
382	Fencing	3-Strand Barbed wire	LnFt	\$2.49
382	Fencing	4-Strand Barbed wire	LnFt	\$2.60
382	Fencing	5-Strand Barbed wire	LnFt	\$2.72
382	Fencing	6-Strand High Tensile non-electric wire	LnFt	\$2.50
382	Fencing	8-Strand High Tensile non-electric wire	LnFt	\$2.66
382	Fencing	1-Strand High Tensile electric wire	LnFt	\$1.77
382	Fencing	2-Strand High Tensile electric wire	LnFt	\$1.84
382	Fencing	3-Strand HT elec.wire (inter.sub-div./permanent) <sup>2/</sup>	LnFt	\$1.91
382	Fencing	4-Strand HT elec. wire (perm.excl./field boundary)	LnFt	\$2.09
382	Fencing	5-Strand High Tensile electric wire	LnFt	\$2.17
382	Fencing	1-Strand Elec. Poly wire (inter.sub-div./temporary)	LnFt	\$0.44
382	Fencing	2-Strand Electric Poly wire	LnFt	\$0.51
382	Fencing	4'Woven wire + 1-Strand Barbed wire(perm.excl.)	LnFt	\$3.79
382	Fencing	4ft. Chain-link + 1-Srand Barbed wire	LnFt	\$7.87
386	Field Border	Warm Season Grass Establishment (conv.till.)	Acre	\$172
386	Field Border	Warm Season Grass Establishment (herb. & drilled)	Acre	\$184
386	Field Border	Warm Season Grass Establishment + Part. Peas	Acre	\$194
386	Field Border	Warm Sea. Grass Est. + Part. Peas + Shrubs	Acre	\$277
386	Field Border	Cool Season Grass Establishment	Acre	\$237
386	Field Border	Cool Season Grass Establishment + Part. Peas	Acre	\$247
386	Field Border	Wildlife Mixture	Acre	\$230
386	Field Border	Cut-back Field Border	Acre	\$482
390	Riparian Herbacious Cover	Rip. Herb. Cover-Warm Sea. Grasses + Part. Peas	Acre	\$194
390	Riparian Herbacious Cover	Riparian Herbacious Cover - Nat. Suc./disking	Acre	\$9.48
391	Riparian Forest Buffer	Riparian Forest Buffer - Hardwoods	Acre	\$671
391	Riparian Forest Buffer	Rip. For. Buffer-Hardwoods & Warm Sea.Grasses	Acre	\$526
393	Filter Strip	Warm Season Grass Establishment	Acre	\$184
393	Filter Strip	Cool Season Grass Establishment	Acre	\$237
394	Firebreak	Firebreak Estab. - bulldozer & a firebreak plow	Acre	\$22.53
394	Firebreak	Firebreak Establishment - disk field/new firebreak	Acre	\$12.53
394	Firebreak	Firebreak Estab. - re-disk field/existing firebreak	Acre	\$7.55
395	Stream Hab. Impr. & Mgt.	Stream Habitat Improvement and Management	Acre	NC
396	Fish Passage	Dam Removal, Small (7'high x 200' long typical)	LnFt	\$469
396	Fish Passage	Dam Removal, Large (25' high x 250 long typical)	LnFt	\$4,886
396	Fish Passage	Culvert Removal/Replacement Open Arched Sm.	LnFt	\$726

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396	Fish Passage	Culvert Removal/Replacement Open Arched Lg.	LnFt	\$1,135
396	Fish Passage	Culvert Removal/Replacement Corrugated Sm.	LnFt	\$67.80
396	Fish Passage	Culvert Removal/Replacement Corrugated Lg.	LnFt	\$88
396	Fish Passage	Barrier Removal/Bridge Installation, Sm.	LnFt	\$100
396	Fish Passage	Denil Type Fish Ladder (VtFt. = vertical height)	VtFt	\$44,174
396	Fish Passage	Concrete Low Water Crossing Removal	SqFt	\$12.09
410	Grade Stabilization Structure	Earthen Grade Stabilization Structure	LnFt	\$250
410	Grade Stabilization Structure	Riprap Grade Stabilization Structure	SqFt	\$12.23
410	Grade Stabilization Structure	Concrete Grade Stabilization Structure	LnFt	\$265
412	Grassed Waterway	Grassed Waterway	Acre	\$2,906
422	Hedgerow Planting	Hedgerow Planting with Hardwoods	Acre	\$671
422	Hedgerow Planting	Hedgerow Planting with Pines or Cedars	Acre	\$237
422	Hedgerow Planting	Hedgerow Planting with Mixed Shrubs seedlings	Acre	\$1,304
430AA	Irrigation Water Convenyance	6" Aluminum Pipeline	LnFt	\$4.96
430DD	Irrigation Water Convenyance	6" PVC Pipeline	LnFt	\$4.75
436	Irrigation Storage Reservoir	Irrigation Storage Reservoir - Dam	CuYd	\$6.73
436	Irrigation Storage Reservoir	Irrigation Storage Reservoir - Dugout	CuYd	\$2.05
441	Irrigation System-Micro	Irrigation System - Micro	Acre	\$786
442	Irrigation System-Sprinkler	Irrigation System - Center Pivot Sprinkler	Acre	\$1,009
442	Irrigation System-Sprinkler	Retrofit existing Center Pivot Sprinkler	LnFt	\$11.00
447	Irrigation Sys.Tailwater Recovery	Irrigation System Tailwater Recovery	LnFt	\$2.56
449	Irrigation Water Management	IWM - plan preparation	Acre	\$10.00
449	Irrigation Water Management	IWM - plan implementation	Acre	\$22.30
457	Mine Shaft and Adit Closing	Riprap Closing of a Mine Opening	SqFt	\$48
457	Mine Shaft and Adit Closing	Bat Gate Closing of a Mine Opening	SqFt	\$63
468	Lined Waterway or Outlet	Rock-lined Waterway or Outlet	SqFt	\$0.58
490	Forest Site Preparation	Rolling Drum Chopper	Acre	\$167
490	Forest Site Preparation	Herbicide Application < 350 trees/acre	Acre	\$126
490	Forest Site Preparation	Herbicide Application > 350 trees/acre	Acre	\$126
512	Pasture and Hayland Planting	Warm Season Grass Establishment	Acre	\$184
512	Pasture and Hayland Planting	Cool Season Grass Establishment	Acre	\$237
512	Pasture and Hayland Planting	Rennovation with Legumes (frost seeding)	Acre	\$24
512	Pasture and Hayland Planting	Rennovation with Legumes (drilled)	Acre	\$30
516	Pipeline	Pipeline 1" PVC or PE	LnFt	\$1.86
516	Pipeline	Pipeline > 1" PVC or PE	LnFt	\$2.17
516	Pipeline	Quick Coupler Connection	No	\$50
516	Pipeline	Puplic Water Connection	No	\$875
528	Prescribed Grazing	Prescribed Grazing Plan	Acre	\$6.88
528	Prescribed Grazing	Prescribed Grazing Plan Implementation	Acre	\$62.40
533	Pumping Plant	Pumping Plant - Electrical	No	\$2,823
533	Pumping Plant	Pumping Plant - Pasture Pump	No	\$479
533	Pumping Plant	Pumping Plant - Ram	No	\$1,208
533	Pumping Plant	Pumping Plant - Solar - 2 panel 24V sys.	No	\$1,871
533	Pumping Plant	Pumping Plant - Solar - 4 panel 48V sys.	No	\$3,421

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Practice Code	Practice Name	Practice Scenario Description	Units	Estimated Average Cost/Unit <sup>1/</sup>
558	Roof Runoff Structure	Roof Runoff Structure - 5" Gutters	LnFt	\$20.00
558	Roof Runoff Structure	Roof Runoff Structure - Downspouts & Drainlines	LnFt	\$1.62
561	Heavy Use Area Protection	Heavy Use Protection - Gravel & Fabric	SqFt	\$1.38
561	Heavy Use Area Protection	Heavy Use Protection - Concrete Slab	SqFt	\$3.21
561	Heavy Use Area Protection	Heavy Use Protection - Roof only	SqFt	\$7.04
561	Heavy Use Area Protection	Heavy Use Protection - Concrete with a Roof	SqFt	\$10.25
561	Heavy Use Area Protection	40'x40' Conc. Slab for Mgt. Access/Poultry	No	\$5,136
574	Spring Development	Collection Box	No	\$2,399
575	Animal Trails and Walkways	Fabric & Gravel Travel Lane	SqFt	\$1.82
575	Animal Trails and Walkways	Concrete Travel Lane	SqFt	\$3.20
578	Streamcrossing	Gravel & Fabric Graded Crossing, sm. (<50')	SqFt	\$2.13
578	Streamcrossing	Grav. & Fab. Graded Cross.,lg. (approx. 100')	SqFt	\$1.84
578	Streamcrossing	Graded w/ concrete access (approx. 75')	SqFt	\$3.68
578	Streamcrossing	Graded w/ 2, 24" X 20' Culverts (approx. 75')	SqFt	\$4.37
580	Streambank & Shoreline Protection	Living Shoreline Stabilization	SqFt	\$3.72
580	Streambank & Shoreline Protection	Riprap toe of Slope then Vegetate	SqFt	\$3.50
585	Stripcropping	Stripcropping	Acre	\$175
587	Structure for Water Control	Water Level Control	No	\$3,312
595	Pest Management	E001 Crop Diversity One Level Increase (AACs <sup>1/</sup> )	Acre	\$33.68
595	Pest Management	E002 Crop Diversity Two Level Increase (AACs)	acre	\$39.85
595	Pest Management	E003 Crop Diversity Three Level Increase (AACs)	Acre	\$56.52
595	Pest Management	Basic IPM for Apple and Peach Growers (AACs)	Acre	\$115
595	Pest Management	Advanced IPM for Apple & Peach Growers (AACs)	Acre	\$220
595	Pest Management	Pest Management - Spot Chemical Application	Acre	\$49.10
595	Pest Management	Phragmites Control < 100 acres	Acre	\$360
595	Pest Management	Phragmites Control > 100 acres	Acre	\$270
595	Pest Management	Bush-hoging of invasive species	Acre	\$16.63
595	Pest Management	Heavy Disking of invasive species	Acre	\$9.48
600	Terrace	Terrace	LnFt	\$0.53
612	Tree and Shrub Establishment	Hardwood Tree Planting	Acre	\$671
612	Tree and Shrub Establishment	Pine Tree Planting < 350 trees/acre	Acre	\$30.57
612	Tree and Shrub Establishment	Pine Tree Planting > 350 trees/acre	Acre	\$66.50
612	Tree and Shrub Establishment	Longleaf Pine Tree Planting	Acre	\$349
612	Tree and Shrub Establishment	Mixed Shrub Seedling Planting	Acre	\$1,302
612	Tree and Shrub Establishment	Hardwood Trees & Mixed Shrub Seedlings	Acre	\$1,542
614	Watering Facility	2-Hole - Freeze Proof Trough	No	\$1,191
614	Watering Facility	4-Hole - Freeze Proof Trough	No	\$1,513
614	Watering Facility	Precast Concrete Tank	No	\$1,085
614	Watering Facility	Converted Heavy Equip. Tire	No	\$729
614	Watering Facility	Concrete Reservoir -1,000 Gal.	No	\$1,339
614	Watering Facility	Concrete Reservoir -1,500 Gal.	No	\$1,433
633	Waste Utilization	Waste Utilization dry poultry litter spreading	Acre	\$30.43
633	Waste Utilization	Waste Utilization liquid dairy waste application	Acre	\$33.82

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Practice Code	Practice Name	Practice Scenario Description	Units	Estimated Average Cost/Unit <sup>1/</sup>
634	Manure Transfer	Pump, pipe & hydrant - Liquid Waste	AU	\$133
634	Manure Transfer	Pump, pipe, hydrant & traveling gun - Liquid Waste	AU	\$229
634	Manure Transfer	Pipe & Dropbox from Dairy waste Storage	No.	\$7,682
638	Water and Sediment Control Basin	Earthen Control Structure(CuYdEarthMoved)	CuYdEM	\$7.73
642	Water Well	Drilled Well	LnFt	\$11.85
643	Res. & Mgt. of Declining Habitats	Oyster Reef - planted oyster shells	Bu.	\$4.00
643	Res. & Mgt. of Declining Habitats	Oyster Reef - sunken concrete reef spheres	Acre	\$36,000
643	Res. & Mgt. of Declining Habitats	Submerged Aquatic Vegetation Seeding	Acre	\$27,000
643	Res. & Mgt. of Declining Habitats	Eastern Shore Native Trees	Acre	\$1,351
643	Res. & Mgt. of Declining Habitats	Longleaf Pines	Acre	\$349
643	Res. & Mgt. of Declining Habitats	Atlantic White Cedar	Acre	\$1,400
644	Wetland Wildlife Hab. Management	Seasonal Water Management for Wildlife	No	\$3,312
645	Upland Wildlife Habitat Mgt.	Wild.Hab.Score before of < 50/after of 50-74	Acre	\$54
645	Upland Wildlife Habitat Mgt.	Wild.Hab.Score before of 50-74/after of 76-100	Acre	\$88
645	Upland Wildlife Habitat Mgt.	Wild.Hab.Score before of < 50/after of 76-100	Acre	\$189
646	Shallow Water Development & Mgt.	Earth fill Embankment	No	\$7,206
646	Shallow Water Development & Mgt.	Earthen Dugout	No	\$8,916
647	Early Success. Hab. Development	Disking	Acre	\$9.13
647	Early Success. Hab. Development	Rolling Drum Chopper	Acre	\$167
647	Early Success. Hab. Development	Bush Hogging	Acre	\$16.63
647	Early Success. Hab. Development	Deferred Grazing/Mowing	Acre	\$25.31
647	Early Success. Hab. Development	Herbicide Application	Acre	\$49.10
655	Forest Trails and Landings	Landing Area Treatment	Acre	\$1,609
657	Wetland Restoration	Crush tile/fill ditch	LnFt	\$31.80
658	Wetland Creation	Earthen Berm Impoundment	LnFt	\$28.82
666	Forest Stand Improvement	Mid-rotation Herbicide Application < 350 trees/acre	Acre	\$70.43
666	Forest Stand Improvement	Mid-rotation Herbicide Application > 350 trees/acre	Acre	\$70.43
666	Forest Stand Improvement	Mechanical Thinning < 350 trees/acre	Acre	\$104
666	Forest Stand Improvement	Mechanical Thinning > 350 trees/acre	Acre	\$104
717	Livestock Shade Structure	Portable Shade Structure	SqFt	\$4.35
749	Waste Field Storage	Fabric and Gravel with a Tarp.	SqFt	\$1.45
749	Waste Field Storage	Concrete Slab with a Tarp.	SqFt	\$3.29

1/ All costs are in present value/unit terms except for 328, Conservation Crop Rotation and 595, Pest Management practices dealing with cropping system diversity and IPM. These costs are in average annual cost/unit terms. The average cost estimates are not to be confused with "Practice Payment Rates". "Practice Payment Rates" are derived from average cost estimates based on program policy.

2/ The added descriptions for fence in parentheses identify those fencing types that meet NRCS standards and were the least cost alternatives for meeting specific purposes. Derivative costs from these alternatives were included in Protracts for contracting with our clients.

NC = non cost-shared practices allowed in our contracts; no cost estimate prepared;

"Average Cost List for FY08.xls"