

## South Dakota Cost List - 2003 Program Year (Effective 4/17/03)

The 2003 South Dakota Cost List will be used for all conservation programs administered by the Natural Resources Conservation Service (NRCS). Programs include:

- Environmental Quality Incentives Program (**EQIP**)
- Wildlife Habitat Incentives Program (**WHIP**)
- Wetland Reserve Program (**WRP**)
- Emergency Watershed Program (**EWP**)
- PL-566 Watershed Project (**PL-566**)
- Great Plains Conservation Program (**GPCP**)
- Water Bank Program (**WBP**)
- Interim EQIP

Programs such as the Conservation Reserve Program (CRP) or Emergency Conservation Program (ECP) have separate cost lists. See appropriate program documentation for more information.

Methods and policy on cost-sharing, development of average cost data, and procedures for establishing cost-share rates are discussed in General Manual (GM), Subpart D, 404.31, and 404.32. Methods of cost-share in this cost list include:

- AM** - Actual cost not to exceed a specified maximum cost
- FR** - Flat rate

Cost-share payments are determined by multiplying the listed cost by the allowable program cost-share rate (except for AM which use the lesser of actual cost or specified maximum cost). However, several practices have additional factors which need to be taken into consideration:

### **Waste Management System:**

- Only the components of the overall waste management system required for the proper collection, storage, transport, treatment, and utilization of the waste materials will be eligible for cost-share. These will include practices needed for the diversion of clean water around the system, manure settling basins, waste storage facilities, fencing for the protection of these settling and storage facilities, and permanently installed equipment or facilities needed to transport manure to holding ponds or other storage facilities.
- When a feedlot is being moved to an entirely new location to promote water quality improvement, cost-share will be limited to the waste management system structures and components. However, exceptions may be considered on a case-by-case basis with concurrence of the NRCS engineer and local district conservationist with prior approval of the state conservation engineer. Examples include; perimeter fencing around the entire facility, components to deliver water up to (but not including) livestock watering facilities, shelterbelt establishment, and temporary wind shelters for livestock protection until shelterbelts are permanently established. NOTE: When relocating a facility, the producer must agree to completely abandon all livestock feedlot type activities at the existing facility.

### **Fencing:**

Fences **NOT ELIGIBLE** for cost-share:

- To keep livestock within the boundaries of a prescribed grazing system(s), range unit, allotment, grazing area, Tribal grazing unit, etc.
- Along federal, state, county, Tribal, and township roads.
- To separate cropland from rangeland or pastureland.
- Feedlot perimeter fencing. Exceptions will be considered on a case-by-case basis ONLY when a feedlot is being moved to an entirely new location to promote water quality improvement.

Fences **ELIGIBLE** for cost-share:

- Control the movement of cattle within a prescribed grazing system, range unit, allotment, grazing area, Tribal grazing unit, etc., (cross fences) regardless of ownership.
- Protect other conservation practices (trees, seedings, ponds, etc.,) from livestock grazing regardless of ownership provided that the livestock being excluded are from the unit under contract, and fences are not along a road as defined above.
- Lanes required to rotate cattle between pastures within a prescribed grazing system provided they are not adjacent to a road as defined above and are inside the boundary of the grazing system, range unit, allotment, grazing area, Tribal grazing unit, etc.
- To protect holding ponds, debris basins, or other required structures of an animal waste management system.

**Pumping Plant:**

- Includes applicable costs associated with pump, power unit, pressure tank, appurtenances, and well pit. Power units may include solar panels or electric generators. The cost of installing electric or gas lines to operate the facility is not eligible for cost-share. One time cost-share, all maintenance and replacement costs are the responsibility of producer.

**Wells - Deep Aquifer:**

- Must have prior written approval by the state conservation engineer before the practice is eligible for cost-share.

In western and central South Dakota, four aquifers located at shallower depths have been identified that will meet water quality criteria for livestock. These include: Oglala Formation, Arikaree Formation, Fox Hills Formation and the Inyan Kara/Lakota Formation. These aquifers usually occur at depths less than 2,000 feet. It is recognized that these shallow aquifers do not always exist locally. Wells in these formations, at depths of less than 2,000 feet, do not require prior approval.

The intent of this component is to use the first aquifer reached that provides an adequate source of water quantity and quality for livestock. If producers wish to establish the well in a deeper aquifer, the added depth will be at their own expense.

Wells installed in an aquifer at depths greater than 2,000 feet requires the following information:

1. Documentation that other alternatives have been discussed with the producer. The intent is to consider the cost of drilling a well versus the cost of rural water, dams, etc. Documentation can be in the form of photocopied technical assistance notes.
2. Documentation in the form of drill logs that indicate the absence of shallower aquifer sources in this area. This information is available from well drillers, South Dakota Geological Survey, U.S. Geological Survey, and the South Dakota School of Mines and Technology.

Also included as an attachment to the 2003 South Dakota Cost List is a Conservation Practice Suggested Life Span and Operation and Maintenance (O&M) Table. Practice life spans and O&M estimated costs are needed to determine the average annual cost of installing conservation practices. More information on the economics of conservation, the use of Interest and annuity tables and amortization is located at the South Dakota NRCS home page at: [www.sd.nrcs.usda.gov/General\\_Info/tech\\_resources](http://www.sd.nrcs.usda.gov/General_Info/tech_resources).

COMPONENT NAME	UNIT TYPE	UNIT COST	COST-SHARE TYPE <sup>1</sup>
<b>Bioengineering</b>			
Brush box - trench pack	L.F.	\$5.00	AM
Brush matting	SQ.FT.	\$1.35	AM
Willow planting - locally harvested	EA.	\$0.20	AM
Willow planting - nursery stock	EA.	\$0.30	AM
<b>Brush Management</b>			
Chemical brush management	AC.	\$10.00	AM
<b>Concrete</b>			
Reinforced concrete flatwork	CU.YD.	\$150.00	AM
Reinforced concrete formed 1 side	CU.YD.	\$390.00	AM
Reinforced concrete formed 2 sides	CU.YD.	\$600.00	AM
Steel fabrication for reinforcement	LB.	\$1.00	AM
Fiberglass reinforcement	CU.YD.	\$200.00	AM
Unreinforced concrete	CU.YD.	\$150.00	AM
<b>Critical Area</b>			
Light shaping < 4 feet deep	AC.	\$500.00	AM
Medium shaping > 4 feet deep	AC.	\$1,000.00	AM
<b>Earthwork</b>			
Earthmoving w/dragline	CU.YD.	\$1.50	AM
Excavation	CU.YD.	\$1.10	AM
Class A Standard Equip.	CU.YD.	\$2.08	AM
Class S Standard Equip.	CU.YD.	\$1.30	AM
Class S Standard Equip.	EA.	\$1,000.00	AM
<b>Construction Specifications:</b>			
<i>Excavation</i> - includes only the removal and transport of earthfill from the construction site.			
<i>Class A</i> - includes the excavation and fill with compaction measured by a standard compaction test.			
<i>Class S</i> - includes excavation and fill with compaction controlled by specifying a construction method.			
<b>NOTE:</b> Only one of the above may be cost-shared per practice. Exceptions: Waste Storage Lagoon, Waste Storage Facility, core trench for ponds, etc., where earthfill is excavated, disposed of or temporarily stored, and replaced with suitable material with compaction requirements.			
Offsite borrow for clay liner	CU.YD.	\$5.00	AM
Top dressing	SQ.YD.	\$0.45	AM
Testing (proctor, moisture, density, etc.)	EA.	\$1,500.00	AM
Earthmoving w/backhoe, rubber tire	HR	\$55.00	AM
Earthmoving w/ track backhoe or dozer	HR	\$125.00	AM
Earthmoving with grader	HR	\$85.00	AM
Waterspreading 0-2% slope .27 cu.yd./ft	L.F.	\$0.51	AM
Waterspreading 2-4% slope .34 cu.yd./ft	L.F.	\$0.87	AM
Waterspreading 4-6% slope .44 cu.yd./ft	L.F.	\$1.28	AM
Waterway, diversion, plug > 55 sq.ft.	CU.YD.	\$1.30	AM
Waterway, diversion, plug 0-14.9 sq.ft.	L.F.	\$1.00	AM
Waterway, diversion, plug 15-24.9 sq.ft.	L.F.	\$1.10	AM
Waterway, diversion, plug 25-34.9 sq.ft.	L.F.	\$1.40	AM
Waterway, diversion, plug 35-44.9 sq.ft.	L.F.	\$2.20	AM
Waterway, diversion, plug 45-54.9 sq.ft.	L.F.	\$2.70	AM
Land leveling	CU.YD.	\$1.74	AM
Landshaping	CU.YD.	\$1.00	AM
Terraces	L.F.	\$1.40	AM

COMPONENT NAME	UNIT TYPE	UNIT COST	COST-SHARE TYPE <sup>1</sup>
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**Erosion blanket**

Coconut fiber installed	SQ.YD.	\$2.01	AM
Nylon fiber installed	SQ.YD.	\$4.86	AM
Small grain straw installed	SQ.YD.	\$2.10	AM
Wood fiber installed	SQ.YD.	\$2.50	AM
Mulching and erosion control netting	SQ.YD.	\$1.50	AM
Mulching and mechanical anchoring	AC.	\$400.00	AM
Silt Fence	L.F.	\$0.34	AM

**Fabricated Windbreak**

Fabricated Windbreak	L.F.	\$20.00	AM
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**Fence**

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- To keep livestock within the boundaries of a prescribed grazing system(s), range unit, allotment, grazing area, Tribal grazing unit, etc.
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- To separate cropland from rangeland or pastureland.
- Feedlot perimeter fencing. Exceptions will be considered on a case-by-case basis ONLY when a feedlot is being moved to an entirely new location to promote water quality improvement.

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- Lanes required to rotate cattle between pastures within a prescribed grazing system provided they are not adjacent to a road as defined above and are inside the boundary of the grazing system, range unit, allotment, grazing area, Tribal grazing unit, etc.
- To protect holding ponds, debris basins, or other required structures of an animal waste management system.

1-Wire electric	L.F.	\$0.33	AM
2-Wire electric	L.F.	\$0.37	AM
3-Wire electric	L.F.	\$0.42	AM
4-Wire electric	L.F.	\$0.47	AM
5-Wire electric	L.F.	\$0.52	AM
Portable fence for intensive grazing mgt.	L.F.	\$0.12	AM

Single wire portable poly-wire fence. Eligible cost-share determined by the circumference of the largest temporary paddock (if temporary fencing surrounds paddock) or by the longest single reach required multiplied by two (if temporary fencing occurs on only two sides of a paddock).

Electric fence energizers	EA.	\$500.00	AM
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Includes ground rods(s), lightning arrestors and appurtenances. Must meet SD Standard 382-Fence. Limit of one per contract.

26" Woven wire w/2 barbed wires	L.F.	\$0.82	AM
32" Woven wire w/1 barbed wire	L.F.	\$1.03	AM
48" Woven wire w/2 barbed wire	L.F.	\$1.23	AM
3-Barbed wire	L.F.	\$0.70	AM
4-Barbed wire	L.F.	\$0.75	AM
5-Barbed wire	L.F.	\$0.80	AM
6 or more barbed wire	L.F.	\$0.85	AM
Chain link	L.F.	\$10.00	AM

*Corner, direction chg. & pull post	EA.	\$91.00	AM
*Gate assembly	EA.	\$144.00	AM

<sup>1</sup> For specialty fences only; ag waste, tree sites, etc. Not for use in cross fence.

Suspension fence 4-wire minimum	L.F.	\$0.49	AM
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COMPONENT NAME	UNIT TYPE	UNIT COST	COST-SHARE TYPE <sup>1</sup>
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**Forest**

Improving a stand of forest trees	AC.	\$154.00	AM
Site preparation for natural reproduction	AC.	\$150.00	AM

**Grazinglands Mechanical Treatment**

Contour furrow, renovation, pitting	AC.	\$12.00	AM
Deep chiseling	AC.	\$20.00	AM

**Prescribed Burning**

Prescribed Burning	AC.	\$8.50	FR
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\* NOTE - Only employees that have met minimum training requirements may provide technical assistance. Refer to South Dakota policy on prescribed burning located in the National Range and Pasture Handbook (NRPH).

**Grass Seeding**

Introduced/Native Grass Mix	AC.	\$80.00	AM
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*Includes introduced grass species, introduced grass/legume mixtures, and introduced/native grass/legume mixtures. Price includes seedbed preparation (mechanical and/or chemical), cost of seed, and seeding operation.*

Native Grass Mix	AC.	\$120.00	AM
Native Grass/Native Forb Mix	AC.	\$160.00	AM
Restoration of Tall Grass Prairie	AC.	\$260.00	AM

*Includes only native grass/legume mixtures. Price includes seedbed preparation (mechanical and/or chemical), seed, and seeding operation.*

Temporary Cover for Erosion Control	AC.	\$40.00	AM
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*For establishment of a temporary cover for erosion control purposes in preparation of a new grass seeding. Price includes chemical and/or mechanical operations for seedbed preparation, cost of seed, and seeding operation.*

Weed Control	AC.	\$8.00	FR
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*Includes cost of chemical and/or mechanical weed control methods.*

**Irrigation**

**Pipe cost - Including installation and needed appurtenances - AM**

Pipe Size	Alfalfa Valve	PVC Pipe	Flow Meter	PVC Vent Standpipe	Steel Dogleg Block W/Thrust	PVC Dogleg Block W/Thrust
6" dia.		\$2.75	\$850.00	\$90.00	\$416.00	\$90.00
8" dia.	\$400.00	\$3.70	\$900.00	\$120.00	\$554.67	\$120.00
10" dia.	\$460.00	\$5.00	\$1,066.67	\$150.00	\$693.33	\$150.00
12" dia.	\$565.00	\$10.00	\$1,280.00	\$180.00	\$832.00	\$180.00
15" dia.	\$600.00	\$12.00	\$1,600.00	\$225.00	\$1,040.00	\$225.00
18" dia.		\$17.35	\$1,920.00	\$270.00	\$1,248.00	\$270.00
21" dia.		\$23.25	\$2,240.00	\$315.00	\$1,456.00	\$315.00

*\*All costs reflect AM cost-share.*

Air vacuum valve	EA.	\$540.00	AM
Drain	EA.	\$180.00	AM
Inlet structure	EA.	\$500.00	AM
Outlet structure	EA.	\$150.00	AM
Pressure control valve	EA.	\$560.00	AM
Pumpout	EA.	\$470.00	AM
Trash rack	EA.	\$162.50	AM

COMPONENT NAME	UNIT TYPE	UNIT COST	COST-SHARE TYPE <sup>1</sup>
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**Lining & sealing**

Bentonite	TON	\$200.00	AM
Butyl rubber	SQ.FT.	\$0.30	AM
Gleization	SQ.FT.	\$0.06	AM
Plastic membrane	SQ.FT.	\$0.40	AM
Soda ash or similar material	TON	\$238.00	AM

**Obstruction removal**

Obstruction removal	JOB	\$1,000.00	AM
Obstruction removal	HR	\$120.00	AM

**Pipe - Principal Spillways & Drain Pipes**

Pipe cost - Including installation and fittings								
Pipe Size	Steel Coating	Galvanized Steel	Galvanized Steel	Aluminum	Corrugated Plastic/Single Wall	Corrugated PE Lined	Corrugated PE Smooth	Plastic PVC
4" dia.								\$11.00
6" dia.								\$12.00
8" dia.								\$15.00
10" dia.								\$19.00
12" dia.	\$33.00	\$30.00	\$30.00	\$30.00	\$11.25	\$33.00		\$25.80
15" dia.	\$41.25	\$37.50	\$37.50	\$37.50	\$14.06	\$41.25		\$32.25
18" dia.	\$49.50	\$45.00	\$45.00	\$45.00	\$16.88	\$49.50		\$38.70
21" dia.	\$57.75	\$52.50	\$52.50	\$52.50	\$19.69	\$57.75		\$45.15
24" dia.	\$66.00	\$60.00	\$60.00	\$60.00	\$22.50	\$66.00		\$57.00
30" dia.	\$82.50	\$75.00	\$75.00	\$75.00		\$82.50		\$64.50
36" dia.	\$135.00	\$135.00	\$90.00			\$135.00		
42" dia.	\$157.50	\$157.50	\$105.00					
48" dia.	\$180.00	\$180.00	\$120.00					

\*All costs reflect AM cost-share.

Butyl rubber diaphragm	EA.	\$250.00	AM
Cathodic protection - magnesium anodes	LB.	\$9.00	AM
Tile outlets 4-12" diameter	L.F.	\$5.00	AM
Tile riser	EA.	\$60.00	AM
Principal spillway riser	LF/FT Dia	\$50.00	AM
Trash screen for sediment basin drain	EA.	\$400.00	AM

**Pumping Plant for Water Control**

Pumping plant	EA.	\$3,000	AM
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*Includes pump, pressure tank, appurtenances, and well pit. Power units may be cost-share (depending on program) under Well - Alternative Power Source. The cost of installing electric or gas lines to operate the facility is not eligible for cost-share. One time cost-share, all maintenance and replacement costs are the responsibility of producer.*

*Permanently installed pump	Ea.	\$10,000	AM
*High performance pump	Ea.	\$14,000	AM

*\*If the pump is an integral part of the animal waste management system. Does not include the cost of supplying or connecting electricity to the pump.*

COMPONENT NAME	UNIT TYPE	UNIT COST	COST-SHARE TYPE <sup>1</sup>
<b>Pipeline</b>			
1" Diameter galvanized steel pipe	L.F.	\$1.75	AM
1" Plastic pipe	L.F.	\$1.45	AM
1" High density PE pipe	L.F.	\$1.50	AM
1 1/4" High density PE pipe	L.F.	\$1.50	AM
1 1/4" Plastic pipe	L.F.	\$1.52	AM
1 1/2" Plastic pipe	L.F.	\$1.71	AM
2" Plastic pipe	L.F.	\$1.95	AM
2 1/2" Plastic pipe	L.F.	\$2.24	AM
3" Plastic pipe	L.F.	\$2.82	AM
<i>Price includes the cost of pipe, installation, and any needed appurtenances. Assumes an installation cost in normal soil at six foot depth. If pipeline is installed in rock or fractured rock, an additional item may be added to cover additional costs (see below).</i>			
Installation - fractured rock, per lf depth	L.F./ FT.	\$0.25	AM
Installation - rock, per lf depth	L.F./ FT.	\$1.13	AM
<i>Pipeline installation component to be used over and above the cost of normal soil installation costs (see above).</i>			
Hookup on community water system	EA.	\$2,000.00	AM
<i>* Includes service connection, mobilization, pit, meter box, etc., and appurtenances. Does not include components such as pipeline to or from the site, meters, etc., if land owner or operator does not retain ownership and maintenance responsibilities.</i>			
Installation - Type I Road Crossing	EA.	\$700.00	AM
Installation - Type II Road Crossing	EA.	\$1,100.00	AM
Installation - Type III Road Crossing	EA.	\$1,700.00	AM
<i>* Type I - Gravel township or county roads. Type II - paved secondary roads. Type III - Major paved highways (interstate or multiple lane highways eligible for two Type III crossings).</i>			
Manhole and appurtenances	EA.	\$500.00	AM
Soil to mound over pipe	CU.YD.	\$0.84	AM
<b>Rock &amp; gravel</b>			
Crushed rock or gravel	CU.YD.	\$40.00	AM
Drain fill materials	CU.YD.	\$70.00	AM
Filter cloth	SQ.YD.	\$2.00	AM
Rock riprap	CU.YD.	\$50.00	AM
Rockfilled wire baskets	CU.YD.	\$145.00	AM
Livestock Crossing	SQ.FT.	\$2.00	AM
<b>Springs</b>			
Developing springs and seeps	EA.	\$3,500.00	AM
<b>Tank or trough</b>			
Freeze-proof tank with base	GAL.	\$2.50	AM
Steel rim flexible bottom with base	GAL.	\$0.40	AM
Standard tank installation with base	GAL.	\$1.25	AM
Nose pump	EA.	\$500.00	AM
<i>Use standard 533 - Pumping Plant for Water Control</i>			

COMPONENT NAME	UNIT TYPE	UNIT COST	COST-SHARE TYPE <sup>1</sup>
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**Tile**

Tile Size	Perforated To Nonperforated	Tile Removal Greater Than \$500
4" dia.	\$2.00	\$1.50
5" dia.	\$2.20	\$1.50
6" dia.	\$2.75	\$1.60
8" dia.	\$3.10	\$1.70
10" dia.	\$4.50	\$1.80
12" dia.	\$6.00	\$2.00

*All costs reflect AM cost-share.*

Tile removal < \$500	JOB	\$500.00	AM
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**Structure - Including materials and labor**

Timber structure	EA.	\$2,000.00	AM
Sheet Piling	SQ.FT.	\$25.00	AM

**Trees**

Land prep - non-tilled areas, chemical	AC.	\$38.00	AM
Land prep - non-tilled areas, mechanical	AC.	\$34.00	FR
Bare-root tree or shrub and planting	EA.	\$1.50	AM
Container grown trees, shrubs & planting	EA.	\$2.00	AM
Container grown trees, shrubs and planting	ROD	\$5.00	AM
Drip watering system for conifers	L.F.	\$0.30	AM
Fabric weed barrier	L.F.	\$0.50	AM
Renovation, sod control, chem & mech.	AC.	\$160.00	AM
Renovation-tree removal	AC.	\$1,250.00	AM
Scalp planting	ROD	\$4.00	AM
Shrubs and planting	ROD	\$3.50	AM
Trees and planting	ROD	\$3.00	AM
Trees, shrubs, and planting	ROD	\$3.00	AM
Weed Control - Chemical	AC.	\$90.00	AM
Weed Control - Mechanical	AC.	\$180.00	FR

*Payments on an annual basis up to a maximum of three years. Mechanical weed control includes between and within row cultivation. If chemical and mechanical weed control is performed, payment will be based on the within row operation.*

COMPONENT NAME		UNIT TYPE	UNIT COST	COST-SHARE TYPE <sup>1</sup>
<b>Water control</b>				
Pipe Size	Hand Wheel Or Hoist Operated Gate	High Pressure In-line Gate Valve	Inclined Slide Gate Valve	Small Hand Operated Lift Or Slide
8" dia.				
10" dia.				
12" dia.	\$530.00	\$720.00	\$530.00	\$100.00
15" dia.	\$662.50	\$900.00	\$662.50	\$125.00
18" dia.	\$795.06	\$1,080.00	\$795.00	\$150.00
21" dia.	\$927.50	\$1,260.00	\$927.50	\$175.00
24" dia.	\$1,060.00	\$1,440.00	\$1,060.00	\$200.00
30" dia.	\$1,325.10	\$1,800.00		\$250.00
36" dia.	\$1,590.00	\$2,160.00		
42" dia.	\$1,855.00			
48" dia.	\$2,120.00			
<i>All costs reflect AM cost-share. Cost-share rate program dependent.</i>				
Gate stem, hand wheel & couplings		L.F.	\$8.50	AM
Oil filled stem		L.F.	\$12.50	AM
Parshall flume, steel w/o concrete		EA.	\$860.00	AM
Weir boxes (hardware & gauge)		EA.	\$200.00	AM

COMPONENT NAME	UNIT TYPE	UNIT COST	COST-SHARE TYPE <sup>1</sup>
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### Waste management system

- Waste management systems are eligible for cost-share on existing or new Animal Feeding Operations (AFO).
- Only the components of the overall waste management system required for the proper collection, storage, transport, treatment, and utilization of the waste materials will be eligible for cost-share. These will include practices needed for the diversion of clean water around the system, manure settling basins, waste storage facilities, fencing for the protection of these settling and storage facilities, and permanently installed equipment or facilities needed to transport manure to holding ponds or other storage facilities.
- When a feedlot is being moved to an entirely new location to promote water quality improvement., cost-share will be limited to the waste management system structures and components. However, exceptions may be considered on a case-by-case basis with concurrence of the NRCS engineer and local district conservationist with prior approval of the state conservation engineer. Examples include; perimeter fencing around the entire facility, components to deliver water up to (but not including) livestock watering facilities, shelterbelt establishment, and temporary wind shelters for livestock protection until shelterbelts are permanently established. **NOTE:** When relocating a facility, the producer must agree to completely abandon all livestock feedlot type activities at the existing facility.

Total Cost of the System			
Less than \$15,000	System	\$15,000	AM
\$15,001 - \$30,000	System	\$30,000	AM
\$30,001 - \$45,000	System	\$45,000	AM
\$45,001 - \$60,000	System	\$60,000	AM
\$60,001 to \$75,000	System	\$75,000	AM
\$75,001 to \$100,000	System	\$100,000	AM

\*The above price range may be used for contract development when the waste management system design will be completed at a later time. **NOTE:** When the design is complete, the contract will be modified with an itemized list of cost-share components to more accurately reflect construction costs. All cost-share payments will be based on actual costs incurred on a component basis.

Greater than \$100,000	N/A	N/A	N/A
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Contracts on systems with total costs greater than \$100,000 will be based on an itemized cost estimate from a completed engineering design. Components defined within this cost list will be used.

Manure Pump Pit	Ea.	\$2,200.00	AM
Subsurface Investigation - Deep Soil Boring	Ea.	\$1,300.00	AM
PVC Gutter Installation	Ea.	\$200.00	AM
PVC Gutter	LF.	\$10.00	AM
Inline Manure Gate Valve - 6"	Ea.	\$550.00	AM
Inline Manure Gate Valve - 8"	Ea.	\$615.00	AM
Inline Manure Gate Valve - 12"	Ea.	\$1,300.00	AM
Manure line riser - cleanout	Ea.	\$1,000.00	AM
Miscellaneous	JOB	\$500.00	AM

To be used only for waste management systems. Includes signs, permanent markers, and small items not included in the cost list.

COMPONENT NAME	UNIT TYPE	UNIT COST	COST-SHARE TYPE <sup>1</sup>
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**Wells**

4" to 12" Diameter steel casing	L.F.	\$26.80	AM
Deep aquifer well, 6" or more dia. steel casing	L.F.	\$70.00	AM

See Cost List Introduction on Page 2 for additional information concerning this component.

4" to 5" Surface casing	L.F.	\$20.18	AM
Copper casing 1.5" in diameter	L.F.	\$12.00	AM
Copper casing 2" diameter	L.F.	\$18.50	AM
Larger than 12" diameter (ordinary well)	L.F.	\$60.00	AM
Schedule 40 - 2" to 3.5" plastic pipe	L.F.	\$11.11	AM
Schedule 40 - 4" or larger plastic pipe	L.F.	\$15.70	AM
Schedule 80 - 2" to 3.5" plastic pipe	L.F.	\$10.00	AM
Schedule 80 - 4" or larger plastic pipe	L.F.	\$15.50	AM
Schedule 120 - 2" to 3.5" plastic pipe	L.F.	\$10.00	AM
Schedule 120 - 4" or larger plastic pipe	L.F.	\$18.00	AM
Steel casing under 3" in diameter	L.F.	\$12.00	AM
Alternative Pumping Plant Power Sources	EA.	\$ 5,000.00	AM

Includes solar panels, windmills, propane generators, etc. Must be installed to manufacturers guidelines on new wells only. One time cost-share, all maintenance and replacement costs are the responsibility of producer. Standard 533 - Pumping Plant for Water Control. **NOTE: Refer to specific program rules for cost-share eligibility.**

Well plugging - Shallow aquifer	JOB	\$300.00	AM
Well plugging - Artesian	JOB	\$900.00	AM

**Wetland Restoration**

Earthmoving for wetland restoration	CU.YD.	\$2.18	AM
Ditch plug	EA.	\$250.00	AM
Contractor mobilization	EA.	\$200.00	AM

One time contractor set up charge per operator.

Seeding operation - Hand plugs	EA.	\$0.20	AM
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<sup>1</sup> COST-SHARE TYPES:

- AM** - Actual cost not to exceed a specified maximum
- FR** - Flat rate
- AC** - Average cost
- AA** - Actual cost on to exceed average cost

## Conservation Practice Life Span and Suggested Operation and Maintenance (O&M)

Practice Name	Unit	Practice Code	Life Span <sup>1</sup>	Suggested O&M <sup>2</sup>
Waste Storage Facility	No.	313	15	2%
Brush Management	Ac.	314	10	5%
Composting Facility	No.	317	15	1%
Irrigation Canal or Lateral	Ft.	320	15	5%
Chiseling and Subsoiling	Ac.	324	1	0%
Clearing and Snagging	Ft.	326	5	5%
Conservation Cover	Ac.	327	10	2%
Conservation Crop Rotation	Ac.	328	1	0%
Residue Management				
No Till and Strip Till	Ac.	329A	1	0%
Mulch till	Ac.	329B	1	0%
Ridge till	Ac.	329C	1	0%
Contour Farming	Ac.	330	1	0%
Contour Buffer Strips	Ac.	332	10	2%
Prescribed Burning	Ac.	338	5	0%
Cover and Green Manure Crop	Ac.	340	1	0%
Critical Area Planting	Ac.	342	10	2%
Residue Management, Seasonal	Ac.	344	1	0%
Dam, Diversion	No.	348	15	2%
Sediment Basin	No.	350	20	2%
Well Decommissioning	No.	351	20	0%
Dike	Ft.	356	20	3%
Waste Treatment Lagoon	No.	359	15	4%
Diversion	Ft.	362	10	3%
Pond	No.	378	20	2%
Windbreak/Shelterbelt Est.	Ft.	380	15	2%
Fence	Ft.	382	20	2%
Field Border	Ft.	386	10	1%
Irrigation Field Ditch	Ft.	388	15	5%
Riparian Herbaceous Cover	Ac.	390	10	2%
Riparian Forest Buffer	Ac.	391	15	2%
Filter Strips	Ac.	393	10	3%
Firebreak	Ft.	394	10	20%
Fish Stream Improvement	Ft.	395	15	0%
Fishpond Management	No.	399	1	0%
Floodwater Diversion	Ft.	400	15	2%
Dam, Floodwater Retarding	No.	402	15	2%
Floodway	Ft.	404	15	2%
Grade Stab Structure	No.	410	15	4%
Grassed Waterway	Ac.	412	10	3%
Hedgerow Planting	Ft.	422	15	5%
Herbaceous Wind Barriers	Ft.	422A	5	5%

Practice Name	Unit	Practice Code	Life Span <sup>1</sup>	Suggested O&M <sup>2</sup>
Irrigation Water Conveyance				
Nonreinforced Concrete Ditch and Canal Lining	Ft.	428A	20	2%
Flexible Membrane Ditch and Canal Lining	Ft.	428B	15	2%
Aluminum Tubing Pipeline	Ft.	430AA	20	2%
Asbestos Cement Pipeline	Ft.	430BB	20	2%
Nonreinforced Concrete Pipeline	Ft.	430CC	25	2%
High-Pressure, Underground, Plastic Pipeline	Ft.	430DD	25	2%
Low-Pressure, Underground, Plastic Pipeline	Ft.	430EE	25	2%
Steel Pipeline	Ft.	430FF	25	2%
Reinforced Plastic Mortar Pipeline	Ft.	430GG	25	2%
Rigid, Gated Pipe	Ft.	430HH	25	2%
Irrigation Storage Reservoir	Ac/Ft	436	15	1%
Irrigation System				
Trickle	No.	441	10	10%
Sprinkler	No.	442	15	10%
Surface and Subsurface	No.	443	15	10%
Tailwater Recover	No.	447	15	10%
Irrigation Water Management	Ac.	449	1	0%
Land Clearing	Ac.	460	10	2%
Precision Land Forming	Ac.	462	10	2%
Irrigation Land Leveling	Ac.	464	15	1%
Land Smoothing	Ac.	466	10	2%
Lined Waterway or Outlet	Ft.	468	15	2%
Use Exclusion	Ac.	472	10	4%
Mulching	Ac.	484	1	0%
Forest Site Preparation	Ac.	490	1	0%
Obstruction Removal	Ac.	500	10	0%
Forage Harvest Management	Ac.	511	15	0%
Pasture & Hayland Planting	Ac.	512	10	1%
Pipeline	Ft.	516	20	1%
Pumping Plant for Water Control	No.	533	15	5%
Grazing Land Mech. Treatment	Ac.	548	5	1%
Range Planting	Ac.	550	10	1%
Irrigation Pit or Regulating Reservoir				
Irrigation Pit	No.	552A	20	1%
Irrigation Regulating Reservoir	No.	552B	15	1%
Pond Sealing or Lining				
Membrane Lining	No.	521A	20	1%
Soil Dispersant	No.	521B	20	3%
Bentonite Sealant	No.	521C	15	3%
Cationic Emulsion-Waterborne Sealant	No.	521D	15	3%
Prescribed Grazing	Ac.	528A	5	0%
Regulating Water in Drainage Systems	Ac.	554	20	5%
Access Road	Ft.	560	10	15%
Heavy Use Area Protection	Ac.	561	10	1%
Recreation Area Improvement	Ac.	562	10	1%
Recreation Land Grading and Shaping	Ac.	566	10	2%
Recreation Trail and Walkway	Ft.	568	5	10%

Practice Name	Unit	Practice Code	Life Span <sup>1</sup>	Suggested O&M <sup>2</sup>
Roof Runoff Management	No.	570	15	0%
Soil Salinity Management	Ac.	571	1	0%
Soil Spreading	Ac.	572	1	0%
Spring Development	No.	574	10	2%
Animal Trails and Walkways	Ft.	575	10	15%
Streambank and Shoreline Protection	Ft.	580	20	15%
Open Channel	Ft.	582	15	5%
Stream Channel Stabilization	Ft.	584	10	15%
Contour Stripcropping	Ac.	585	10	1%
Stripcropping, Field	Ac.	586	5	1%
Structure for Water Control	No.	587	20	2%
Nutrient Mgt.	Ac.	590	1	0%
Pest Management	Ac.	595	1	0%
Terrace	Ft.	600	10	2%
Surface Drainage, Field Ditch	Ft.	607	15	3%
Tree/ Shrub Establishment	Ac.	612	15	2%
Tank or Trough	No.	614	10	3%
Underground Outlet	Ft.	620	20	1%
Waste Utilization	Ac.	633	1	0%
Manure Transfer	No.	634	1	0%
Water-Harvesting Catchment	No.	636	10	2%
Water & Sediment Control Basin	No.	638	10	2%
Waterspreading	Ac.	640	15	2%
Well	No.	642	20	1%
Restoration and Mgt. Of Declining Habitats	Ac.	643	15	1%
Wetland Wildlife Habitat Mgt.	Ac.	644	1	1%
Upland Wildlife Habitat Mgt.	Ac.	645	1	1%
Shallow Water Mgt. for Wildlife	Ac.	646	10	2%
Early Successional Habitat Development/Mgt.	Ac.	647	10	1%
Wildlife Watering Facility	No.	648	5	2%
Windbreak/Shelterbelt Renovation	Ft.	650	15	1%
Forest Harvest Trails and Landings	Ac.	655	5	5%
Constructed Wetland	No.	656	15	1%
Wetland Restoration	Ac.	657	15	2%
Wetland Creation	Ac.	658	15	2%
Wetland Enhancement	Ac.	659	15	2%
Forest Stand Improvement	Ac.	666	10	1%
Cross Wind Ridges	Ac.	589A	5	0%
Cross Wind Stripcropping	Ac.	589B	5	0%
Cross Wind Trap Strips	Ac.	589C	5	0%
Tree/ Shrub Pruning	Ac.	660A	10	1%
Subsurface Drain - Field Ditch				
Field Ditch	Ft.	606	15	3%
Main or Lateral	Ft.	608	15	3%

<sup>1</sup> Suggested Lifespan of practices based on USDA program sources. Adjust to more accurately reflect client expectations or local resource conditions.

<sup>2</sup> Suggested Annual Operation and Maintenance (O&M) percent of installation cost per practice. Adjust to reflect O&M on a per component basis, or use actual costs if available.