

Practice Average Annual Costs (PAAC) Based on Typical Scenarios of 2016 KS Payment Schedules

Scenario Information					Life Span	O&M Factor	Interest Rate	Average Annual Cost
ID	Scenario Name	Unit	Size	Total Cost				
472	Access Control							\$98.08
1	Animal exclusion from sensitive areas (FI)	Acre	40	\$671.59	10	3.0%	2.8%	\$98.08
560	Access Road							\$3,772.69
1	New 6 inch gravel road without Geotextile, Less than 2.5 Ft.	Foot	1,000	\$10,738.78	10	15.0%	2.8%	\$2,856.91
3	New 6 inch gravel road without Geotextile, 2. ft. or higher	Foot	1,000	\$17,623.37	10	15.0%	2.8%	\$4,688.47
366	Anaerobic Digester							\$116,270.52
2	Medium Plug Flow 1000-2000 AU	Animal Unit	1,750	\$889,683.12	25	5.0%	2.8%	\$94,444.90
5	Medium Complete Mix 1000-2500 AU	Animal Unit	1,890	\$1,300,883.49	25	5.0%	2.8%	\$138,096.14
316	Animal Mortality Facility							\$2,098.66
7	Static pile, Earthen pad with hydrant	Square Foot	7,500	\$4,284.12	15	5.0%	2.8%	\$567.90
9	Static pile, Concrete Pad with hydrant	Square Foot	5,700	\$26,457.65	15	5.0%	2.8%	\$3,507.21
11	Static pile, Wood Bin(s) with hydrant	Square Foot	720	\$11,970.89	15	5.0%	2.8%	\$1,586.85
13	Static pile, Concrete Bin(s) with hydrant	Square Foot	960	\$20,614.69	15	5.0%	2.8%	\$2,732.67
314	Brush Management							\$756.99
5	Mechanical and Chemical, Heavy Infestation	Acre	10	\$3,238.88	10	1.0%	2.8%	\$408.22
8	Chemical, Foliar Spot Treatment	Acre	10	\$425.13	10	1.0%	2.8%	\$53.58
38	Mechanical and Chemical, Medium Infestation	Acre	80	\$10,066.30	10	1.0%	2.8%	\$1,268.73
293	Chemical, Individual Plant Treatment	Acre	40	\$1,421.74	10	1.0%	2.8%	\$179.19
295	Chemical, Aerial Applied	Acre	500	\$14,878.39	10	1.0%	2.8%	\$1,875.23
672	Building Envelope Improvement							\$1,043.77
1	Building Envelope - Attic Insulation	Square Foot	20,000	\$13,787.62	10	1.0%	2.8%	\$1,737.75

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2	Building Envelope - Wall Insulation	Square Foot	4,500	\$7,561.64	10	1.0%	2.8%	\$953.05
3	Building Envelope - Sealant	Foot	2,400	\$3,495.16	10	1.0%	2.8%	\$440.52
372	Combustion System Improvement							\$2,559.69
2	IC Engine Repower, 50-99 bhp	Each	1	\$15,194.75	10	5.0%	2.8%	\$2,522.89
3	IC Engine Repower, 100-199 bhp	Each	1	\$31,825.74	10	5.0%	2.8%	\$5,284.25
6	Electric Motor in-lieu of IC Engine, 12-74 HP	Each	1	\$6,497.22	10	5.0%	2.8%	\$1,078.78
7	Electric Motor in-lieu of IC Engine, 75-149 HP	Each	1	\$8,147.81	10	5.0%	2.8%	\$1,352.84
317	Composting Facility							\$596.06
1	Composter, structure facility with concrete floor and walls	Square Foot	588	\$7,834.44	15	2.0%	2.8%	\$803.50
3	Composter, open lot, earth floor	Square Foot	10,000	\$3,789.11	15	2.0%	2.8%	\$388.61
328	Conservation Crop Rotation							\$19,914.75
1	Crop Rotation	Acre	160	\$2,403.18	1	0.0%	2.8%	\$2,403.18
3	Irrigated to Dryland Rotation-High Value Crops (FI)	Acre	120	\$37,426.31	1	0.0%	2.8%	\$37,426.31
656	Constructed Wetland							\$826.20
1	Medium, 0.5 ac or less	Acre	0	\$4,034.01	15	1.0%	2.8%	\$373.39
2	Large, more than 0.5 to 1.0 ac.	Acre	1	\$11,431.04	15	1.0%	2.8%	\$1,058.05
3	Large, more than 1.0 ac.	Acre	1	\$11,313.45	15	1.0%	2.8%	\$1,047.17
332	Contour Buffer Strips							\$120.95
4	Warm Season (FI)	Acre	1	\$510.12	5	2.0%	2.8%	\$120.95
330	Contour Farming							\$56.83
1	Contour Farming	Acre	30	\$261.74	5	0.0%	2.8%	\$56.83
340	Cover Crop							\$3,436.90
1	Cover Crop, Single Species	Acre	40	\$3,320.92	1	0.0%	2.8%	\$3,320.92
8	Cover Crop, Multiple Species	Acre	40	\$3,552.88	1	0.0%	2.8%	\$3,552.88

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342	Critical Area Planting							\$74.98
1	Introduced Grass, Light Tillage	Acre	1	\$279.88	10	3.0%	2.8%	\$40.87
2	Native Grass, Light Tillage	Acre	1	\$312.02	10	3.0%	2.8%	\$45.57
4	Native Grass, Moderate Grading	Acre	1	\$948.48	10	3.0%	2.8%	\$138.51
356	Dike							\$1,495.19
1	Wetland Dike	Cubic Yard	1,890	\$9,008.31	20	10.0%	2.8%	\$1,495.19
362	Diversion							\$1,075.23
1	Diversion	Cubic Yard	2,300	\$7,903.92	10	2.0%	2.8%	\$1,075.23
432	Dry Hydrant							\$244.41
1	PVC	Each	1	\$2,640.61	15	1.0%	2.8%	\$244.41
647	Early Successional Habitat Development/Management							\$435.81
1	Mowing	Acre	20	\$277.03	1	0.0%	2.8%	\$277.03
2	Disking	Acre	20	\$503.78	1	0.0%	2.8%	\$503.78
3	Chemical	Acre	20	\$526.62	1	0.0%	2.8%	\$526.62
374	FARMSTEAD ENERGY IMPROVEMENT							\$427.31
1	Ventilation - Exhaust	Each	1	\$1,396.67	10	2.0%	2.8%	\$190.00
2	Ventilation - HAF	Each	1	\$213.41	10	2.0%	2.8%	\$29.03
5	Scroll Compressor	Horsepower	1	\$4,169.64	10	2.0%	2.8%	\$567.23
9	Motor Upgrade 10 - 100 HP	Horsepower	50	\$6,372.17	10	2.0%	2.8%	\$866.85
10	Motor Upgrade > 1 and < 10 HP	Horsepower	5	\$891.49	10	2.0%	2.8%	\$121.28
41	Variable Speed Drive, 5 - 15 HP	Horsepower	10	\$5,803.31	10	2.0%	2.8%	\$789.47
382	Fence							\$416.07
1	Barbed Wire, Multi-strand	Foot	3,960	\$6,910.94	20	2.0%	2.8%	\$594.20
7	Electric, high tensile with energizer	Foot	2,640	\$2,767.41	20	2.0%	2.8%	\$237.94

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386	Field Border							\$66.44
1	Herbaceous, Standard, (FI)	Acre	1	\$510.12	10	1.0%	2.8%	\$64.29
2	Herbaceous, Standard with Nutrients, (FI)	Acre	1	\$544.13	10	1.0%	2.8%	\$68.58
393	Filter Strip							\$63.11
1	Native (FI)	Acre	1	\$294.79	10	2.0%	2.8%	\$40.10
2	Introduced (FI)	Acre	1	\$283.65	10	2.0%	2.8%	\$38.59
3	Native with Shaping (FI)	Acre	1	\$640.39	10	2.0%	2.8%	\$87.12
4	Introduced with Shaping (FI)	Acre	1	\$636.80	10	2.0%	2.8%	\$86.63
394	Firebreak							\$151.52
1	Vegetated, permanent, grass	Foot	2,640	\$279.08	5	20.0%	2.8%	\$116.41
2	Mowing	Foot	5,280	\$217.47	5	20.0%	2.8%	\$90.71
3	Constructed, Tillage	Foot	5,280	\$593.20	5	20.0%	2.8%	\$247.43
512	Forage and Biomass Planting							\$2,429.10
1	Native Perennial Grasses, 1 species	Acre	80	\$8,303.53	5	3.0%	2.8%	\$2,051.88
2	Native Perennial Grasses, 1 species, forgone income	Acre	80	\$10,171.79	5	3.0%	2.8%	\$2,513.54
3	Native Perennial Grasses, multi species	Acre	80	\$20,307.42	5	3.0%	2.8%	\$5,018.15
4	Native Perennial Grasses, multi species, forgone income	Acre	80	\$22,175.68	5	3.0%	2.8%	\$5,479.81
5	Introduced Perennial Grasses-Legume	Acre	60	\$3,256.87	5	3.0%	2.8%	\$804.80
6	Introduced Perennial Grasses-Legume, foregone income	Acre	60	\$4,658.07	5	3.0%	2.8%	\$1,151.05
7	Introduced Perennial & Native Grass Mix	Acre	80	\$6,323.01	5	3.0%	2.8%	\$1,562.47
8	Introduced Perennial & Native Grass Mix, foregone income	Acre	80	\$8,191.27	5	3.0%	2.8%	\$2,024.14
16	PP Interseed Legumes	Acre	20	\$5,083.09	5	3.0%	2.8%	\$1,256.08
511	Forage Harvest Management							\$131.26
1	Improved Forage Quality	Acre	40	\$131.26	1	0.0%	2.8%	\$131.26

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3	Per-Ann Crops - Delayed Mowing	Acre	40	\$131.26	1	0.0%	2.8%	\$131.26
4	Doublecropping - Delayed harvest and subsequent planting	Acre	40	\$131.26	1	0.0%	2.8%	\$131.26
666	Forest Stand Improvement							\$423.06
1	Precommercial Thinning , Hand tools	Acre	10	\$2,773.37	10	0.0%	2.8%	\$321.81
2	Timber Stand Improvement, Single Stem Treatment	Acre	10	\$3,381.06	10	0.0%	2.8%	\$392.33
3	Timber Stand Improvement, Chemical, Ground	Acre	40	\$1,929.16	10	0.0%	2.8%	\$223.85
5	Competition Control, Mechanical, Light Equipment	Acre	10	\$381.72	10	0.0%	2.8%	\$44.29
8	Thinning for Wildlife and Forest Health	Acre	10	\$9,764.25	10	0.0%	2.8%	\$1,133.02
410	Grade Stabilization Structure							\$2,699.65
2	Embankment, Pipe <24'	Cubic Yard	4,000	\$23,837.75	15	1.0%	2.8%	\$2,206.41
3	Embankment, Pipe >=24'	Cubic Yard	10,000	\$51,801.15	15	1.0%	2.8%	\$4,794.69
10	Modular Concrete Block Drop	Cubic Yard	60	\$11,860.87	15	1.0%	2.8%	\$1,097.84
412	Grassed Waterway							\$597.11
1	Waterway, less than 25 ft2	Acre	1	\$4,389.34	10	2.0%	2.8%	\$597.11
355	Groundwater Testing							\$51.52
1	Basic Water Test	Each	1	\$51.52	1	0.0%	2.8%	\$51.52
561	Heavy Use Area Protection							\$787.70
2	Rock/Gravel on Geotextile	Cubic Yard	30	\$1,290.83	10	15.0%	2.8%	\$343.41
3	Rock/Gravel	Cubic Yard	270	\$4,630.84	10	15.0%	2.8%	\$1,231.98
422	Hedgerow Planting							\$88.38
1	Bareroot, machine plant (FI)	Foot	800	\$610.33	15	5.0%	2.8%	\$80.91
2	Container, Machine Plant (FI)	Foot	800	\$723.05	15	5.0%	2.8%	\$95.85
315	Herbaceous Weed Control							\$480.57
1	Chemical, Ground	Acre	160	\$3,922.13	5	1.0%	2.8%	\$890.75

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603	3 Mechanical	Acre	20	\$309.96	5	1.0%	2.8%	\$70.39	
	Herbaceous Wind Barriers								\$41.80
	1 Annual Species (FI)	Foot	1,320	\$161.22	5	3.0%	2.8%	\$39.84	
595	2 Perennial species (FI)	Foot	1,320	\$177.04	5	3.0%	2.8%	\$43.75	
	Integrated Pest Management (IPM)								\$1,099.00
	1 Basic IPM for Field Crops	Acre	40	\$885.45	1	0.0%	2.8%	\$885.45	
430	2 Advanced IPM for Field Crops	Acre	40	\$1,312.54	1	0.0%	2.8%	\$1,312.54	
	Irrigation Pipeline								\$920.69
	2 PVC, 8-in by the foot	Foot	1,300	\$11,849.78	20	0.0%	2.8%	\$781.84	
441	3 PVC, 10-in by the foot	Foot	1,300	\$16,058.74	20	0.0%	2.8%	\$1,059.54	
	Irrigation System, Microirrigation								\$7,599.96
	1 SDI (Subsurface Drip Irrigation)	Acre	60	\$113,221.73	15	5.0%	2.8%	\$15,008.61	
449	3 Surface PE, with emitters, high tunnel	Square Foot	2,160	\$1,443.21	15	5.0%	2.8%	\$191.31	
	Irrigation Water Management								\$1,328.97
	1 IWM, Basic Technique	Acre	125	\$640.33	1	0.0%	2.8%	\$640.33	
466	2 IWM, Intermediate Technique, 1st year	Each	1	\$1,409.94	1	0.0%	2.8%	\$1,409.94	
	3 IWM, Intermediate Technique, Subsequent Years	Acre	125	\$703.24	1	0.0%	2.8%	\$703.24	
	4 IWM, Advanced Technique	Each	1	\$2,562.35	1	0.0%	2.8%	\$2,562.35	
	Land Smoothing								\$299.88
670	1 Minor Shaping	Acre	2	\$744.10	10	0.0%	2.8%	\$86.34	
	2 Field Shaping	Foot	10,000	\$4,424.58	10	0.0%	2.8%	\$513.42	
	Lighting System Improvement								\$17.72
	1 Lighting - CFL	Each	1	\$18.07	10	1.0%	2.8%	\$2.28	
	2 Lighting - LED	Each	1	\$23.16	10	1.0%	2.8%	\$2.92	

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3	Lighting - Linear Fluorescent	Each	1	\$343.96	10	1.0%	2.8%	\$43.35
4	Lighting - Pulse-Start Metal Halide	Each	1	\$32.21	10	1.0%	2.8%	\$4.06
5	Automatic Controller System	Each	1	\$285.41	10	1.0%	2.8%	\$35.97
468	Lined Waterway or Outlet							\$504.79
1	Turf Reinforced Matting, Moderate Stress	Square Foot	1,340	\$2,469.95	15	10.0%	2.8%	\$450.91
2	Turf Reinforced Matting, High Stress	Square Foot	2,215	\$5,196.80	15	10.0%	2.8%	\$948.73
7	Splash Pad	Square Foot	100	\$628.44	15	10.0%	2.8%	\$114.73
516	Livestock Pipeline							\$1,196.73
2	Standard Installation, 2' dia. or less (KS/NE)	Foot	1,500	\$3,610.32	20	2.0%	2.8%	\$310.41
4	Standard Installation, greater than 2' dia.	Foot	5,000	\$21,265.50	20	2.0%	2.8%	\$1,828.39
5	Backhoe, 2' dia. or less	Foot	2,640	\$13,271.47	20	2.0%	2.8%	\$1,141.07
6	Backhoe, greater than 2' dia.	Foot	2,640	\$17,528.25	20	2.0%	2.8%	\$1,507.06
576	Livestock Shelter Structure							\$519.46
1	Portable Wind Shelter	Foot	96	\$1,209.03	10	4.0%	2.8%	\$188.65
2	Permanent Wind Shelter	Foot	200	\$5,449.15	10	4.0%	2.8%	\$850.27
484	Mulching							\$307.94
3	Tree and Shrub - Squares	Each	100	\$238.53	1	0.0%	2.8%	\$238.53
4	Tree and Shrub - Rolls	Foot	600	\$377.35	1	0.0%	2.8%	\$377.35
590	Nutrient Management							\$167.80
1	Basic	Acre	40	\$151.11	1	0.0%	2.8%	\$151.11
4	Basic, combined manure-fertilizer	Acre	40	\$193.77	1	0.0%	2.8%	\$193.77
252	Basic NM system with manure	Acre	40	\$158.52	1	0.0%	2.8%	\$158.52
500	Obstruction Removal							\$333.95
2	Removal and Disposal of Fence, landscape	Foot	2,640	\$2,697.44	10	5.0%	2.8%	\$447.88

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378	6	Removal and disposal of individual landscape structures	Square Foot	225	\$1,325.12	10	5.0%	2.8%	\$220.02
	Pond								\$1,276.04
	2	Excavated Pond with Embankment	Cubic Yard	3,000	\$9,751.51	20	1.0%	2.8%	\$740.91
	4	Embankment Pond with less than 24' Pipe	Cubic Yard	4,000	\$23,837.75	20	1.0%	2.8%	\$1,811.17
521C	Pond Sealing or Lining, Bentonite Sealant								\$16,198.59
	2	Bentonite Treatment - Covered	Cubic Yard	3,227	\$143,911.38	15	3.0%	2.8%	\$16,198.59
521D	Pond Sealing or Lining, Compacted Clay Treatment								\$1,696.05
	4	Use On-site Material with Soil Cover	Cubic Yard	2,420	\$15,068.06	15	3.0%	2.8%	\$1,696.05
521A	Pond Sealing or Lining, Flexible Membrane								\$2,422.56
	3	Flexible Membrane - Covered without liner drainage or venting	Square Yard	2,420	\$25,240.52	20	3.0%	2.8%	\$2,422.56
521B	Pond Sealing or Lining, Soil Dispersant								\$1,993.71
	2	Soil Dispersant - Covered	Cubic Yard	2,420	\$17,190.25	20	5.0%	2.8%	\$1,993.71
338	Prescribed Burning								\$3,036.92
	1	Herbaceous Fuel, Small Acreage	Acre	80	\$1,763.55	1	0.0%	2.8%	\$1,763.55
	2	Herbaceous Fuel - Standard	Acre	320	\$2,705.18	1	0.0%	2.8%	\$2,705.18
	3	Site Preparation	Acre	80	\$3,890.08	1	0.0%	2.8%	\$3,890.08
	4	Level terrain, volatile fuel (wood) less than 4 feet high <640 acre	Acre	320	\$3,788.86	1	0.0%	2.8%	\$3,788.86
528	Prescribed Grazing								\$1,843.04
	5	Range, 30-73% Rest	Acre	160	\$1,948.77	1	0.0%	2.8%	\$1,948.77
	6	Range, Greater than 73% Rest	Acre	160	\$2,428.63	1	0.0%	2.8%	\$2,428.63
	7	Habitat Mgt., Grouse	Acre	160	\$2,286.74	1	0.0%	2.8%	\$2,286.74
	8	Livestock Deferment (FI)	Acre	40	\$671.59	1	0.0%	2.8%	\$671.59
	9	Pasture Standard	Acre	150	\$1,879.47	1	0.0%	2.8%	\$1,879.47
533	Pumping Plant								\$695.15

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5	Livestock, Manure Transfer	Each	1	\$16,215.41	15	2.0%	2.8%	\$1,663.04
6	Livestock, w/ Pressure Tank, = 0.5 hp	Each	1	\$3,100.90	15	2.0%	2.8%	\$318.03
7	Livestock, w/ Pressure Tank, 0.5 < hp < 2	Each	1	\$3,424.21	15	2.0%	2.8%	\$351.19
9	Livestock, without Pressure Tank (HP)	Horsepower	1	\$1,405.16	15	2.0%	2.8%	\$144.11
11	Solar-Powered Pump, 0.5 hp	Each	1	\$6,052.73	15	2.0%	2.8%	\$620.76
12	Solar-Powered Pump, 1 hp	Each	1	\$10,469.80	15	2.0%	2.8%	\$1,073.78
550	Range Planting							\$4,740.58
1	Native, Standard Prep	Acre	80	\$20,307.42	5	1.0%	2.8%	\$4,612.00
2	Native, Standard Prep (FI)	Acre	80	\$22,175.68	5	1.0%	2.8%	\$5,036.30
3	Native, Heavy Prep	Acre	80	\$21,650.82	5	1.0%	2.8%	\$4,917.10
4	Native, Heavy Prep (FI)	Acre	80	\$23,519.09	5	1.0%	2.8%	\$5,341.40
5	Native, Wildlife, or Pollinator (FI)	Acre	50	\$16,714.97	5	1.0%	2.8%	\$3,796.12
329	Residue and Tillage Management, No-Till							\$2,033.39
1	No-Till/Strip-Till	Acre	100	\$2,033.39	1	0.0%	2.8%	\$2,033.39
345	Residue and Tillage Management, Reduced Till							\$2,033.39
1	Mulch till-Basic	Acre	100	\$2,033.39	1	0.0%	2.8%	\$2,033.39
643	Restoration and Management of Rare and Declining Habitats							\$4,055.46
1	Monitoring & Management, Low Intensity and Complexity - No	Acre	100	\$282.66	1	0.0%	2.8%	\$282.66
2	Monitoring & Management, with Foregone Income	Acre	100	\$1,839.54	1	0.0%	2.8%	\$1,839.54
3	Wildlife Enhancement, Livestock exclusion (FI)	Acre	640	\$10,044.19	1	0.0%	2.8%	\$10,044.19
391	Riparian Forest Buffer							\$409.89
1	Direct Seeding (FI)	Acre	2	\$2,202.54	15	1.0%	2.8%	\$203.87
2	Bare-root, machine planted (FI)	Acre	3	\$4,174.09	15	1.0%	2.8%	\$386.35
3	Small container, machine planted (FI)	Acre	3	\$6,908.39	15	1.0%	2.8%	\$639.44

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390	Riparian Herbaceous Cover							\$162.63
1	Native Species	Acre	5	\$677.17	5	1.0%	2.8%	\$153.79
2	Native Species with foregone income	Acre	5	\$755.01	5	1.0%	2.8%	\$171.47
558	Roof Runoff Structure							\$81.98
1	Roof Gutter	Foot	200	\$885.70	15	1.0%	2.8%	\$81.98
367	Roofs and Covers							\$5,988.22
1	Hoop Structure Roof	Square Foot	9,000	\$52,321.43	10	1.0%	2.8%	\$6,594.44
2	Timber or Steel Sheet Roof	Square Foot	5,000	\$42,701.61	10	1.0%	2.8%	\$5,381.99
798	Seasonal High Tunnel System for Crops							\$2,630.27
1	Quonset Style High Tunnel	Square Foot	2,160	\$8,278.01	4	5.0%	2.8%	\$2,630.27
350	Sediment Basin							\$388.00
1	Excavated Basin	Cubic Yard	900	\$4,153.01	20	3.0%	2.8%	\$398.60
2	Embankment Basin	Cubic Yard	1,000	\$3,931.97	20	3.0%	2.8%	\$377.39
646	Shallow Water Development and Management							\$33.40
1	Shallow Water Management-Low Level	Acre	1	\$85.79	5	0.0%	2.8%	\$18.63
2	Shallow Water Management, High Level	Acre	1	\$221.89	5	0.0%	2.8%	\$48.17
574	Spring Development							\$285.68
1	Spring, up to 50 ft Collection	Each	1	\$3,418.73	20	0.0%	2.8%	\$225.56
2	Spring, > 50 ft Collection	Each	1	\$5,240.87	20	0.0%	2.8%	\$345.79
442	Sprinkler System							\$10,099.91
1	Gravity to Pivot Conversion	Foot	1,300	\$98,478.52	15	2.0%	2.8%	\$10,099.91
578	Stream Crossing							\$1,171.93
2	Culvert installation	iameter Inch For	2,400	\$6,892.97	10	10.0%	2.8%	\$1,489.14
3	Low water crossing, rock armor	Square Foot	900	\$3,524.86	10	10.0%	2.8%	\$761.50

Scenario Information					Life Span	O&M Factor	Interest Rate	Average Annual Cost
ID	Scenario Name	Unit	Size	Total Cost				
4	Low water crossing, concrete slab	Square Foot	792	\$5,856.22	10	10.0%	2.8%	\$1,265.16
395	Stream Habitat Improvement and Management							\$4,341.67
1	Riparian Zone Improvement-Forested	Acre	2	\$18,310.86	5	2.0%	2.8%	\$4,341.67
580	Streambank and Shoreline Protection							\$5,924.05
1	Shaping	Foot	1,000	\$8,082.35	20	10.0%	2.8%	\$1,341.50
2	Bioengineered	Foot	1,000	\$25,459.40	20	10.0%	2.8%	\$4,225.73
3	Rock Riprap	Cubic Yard	1,117	\$73,532.87	20	10.0%	2.8%	\$12,204.91
585	Stripcropping							\$38.18
1	Strips	Acre	80	\$168.11	5	1.0%	2.8%	\$38.18
587	Structure for Water Control							\$258.10
3	Commercial Inline Flashboard Riser	meter Inch Fo	1,680	\$5,789.85	20	1.0%	2.8%	\$439.91
10	Rock Check	Each	1	\$1,004.03	20	1.0%	2.8%	\$76.29
649	Structures for Wildlife							\$117.79
5	Escape Ramp	Each	8	\$297.57	5	1.0%	2.8%	\$67.58
6	Fence Markers, Vinyl Undersill	Foot	5,280	\$739.69	5	1.0%	2.8%	\$167.99
606	Subsurface Drain							\$688.06
1	Corrugated Plastic Pipe (CPP), Single-Wall, <= 6 inch	Foot	2,000	\$7,168.89	20	3.0%	2.8%	\$688.06
600	Terrace							\$1,029.80
1	Storage - Level or Flat Channel	Foot	6,000	\$13,332.22	10	0.0%	2.8%	\$1,547.03
2	Non-Storage - Broadbase	Foot	2,600	\$4,711.04	10	0.0%	2.8%	\$546.66
5	Non-Storage - Grass Back	Foot	2,500	\$8,581.00	10	0.0%	2.8%	\$995.71
575	Trails and Walkways							\$298.86
1	Earthfill Walkway, 4 Ft high or less	Foot	200	\$2,254.53	15	5.0%	2.8%	\$298.86
612	Tree/Shrub Establishment							\$458.74

Scenario Information					Life Span	O&M Factor	Interest Rate	Average Annual Cost
ID	Scenario Name	Unit	Size	Total Cost				
1	Individual tree - hand planting	Each	6,000	\$6,109.16	15	0.0%	2.8%	\$504.37
2	Individual tree - hand planting w/browse protection	Each	6,000	\$32,554.29	15	0.0%	2.8%	\$2,687.67
3	Trees, Machine planted with tubes for animal protection	Each	100	\$960.13	15	0.0%	2.8%	\$79.27
4	Trees, Machine planted - no tubes	Each	100	\$285.71	15	0.0%	2.8%	\$23.59
5	Trees, Machine planted with tubes for animal protection, suppl	Each	100	\$1,566.38	15	0.0%	2.8%	\$129.32
6	Trees, Machine planted, no tubes, supplemental water for esta	Each	100	\$891.97	15	0.0%	2.8%	\$73.64
9	Shrub Planting	Each	2,000	\$1,802.72	15	0.0%	2.8%	\$148.83
10	Shrub Thicket	Each	150	\$281.54	15	0.0%	2.8%	\$23.24
660	Tree/Shrub Pruning							\$145.20
1	Pruning-Fire Hazard	Acre	20	\$2,152.82	10	1.0%	2.8%	\$271.34
2	Pruning-Wildlife	Acre	2	\$151.14	10	1.0%	2.8%	\$19.05
490	Tree/Shrub Site Preparation							\$232.77
3	Windbreak, mechanical only	Acre	1	\$139.01	1	0.0%	2.8%	\$139.01
4	Windbreak, chemical and mechanical	Acre	1	\$443.40	1	0.0%	2.8%	\$443.40
6	Windbreak, chemical only	Acre	1	\$115.89	1	0.0%	2.8%	\$115.89
620	Underground Outlet							\$314.59
4	4 inch - 6 inch PVC or DW w Riser	Foot	400	\$2,679.21	20	3.0%	2.8%	\$257.15
6	6 inch or smaller Single Wall PE w Riser	Foot	400	\$1,706.01	20	3.0%	2.8%	\$163.74
7	8 inch - 10 inch PVC or DW w Riser	Foot	400	\$6,250.69	20	3.0%	2.8%	\$599.93
9	12 inch - 18 inch PVC or DW w Riser	Foot	400	\$5,948.45	20	3.0%	2.8%	\$570.93
10	12 inch - 18 inch PVD or DW w Canopy	Foot	80	\$2,477.97	20	3.0%	2.8%	\$237.83
11	Over 18 inch PVC or DW w/ Riser	Foot	60	\$2,259.80	20	3.0%	2.8%	\$216.89
57	6 inch - 10 inch PVC or DW w Canopy	Foot	80	\$1,621.84	20	3.0%	2.8%	\$155.66
645	Upland Wildlife Habitat Management							\$8,216.45

Scenario Information					Life Span	O&M Factor	Interest Rate	Average Annual Cost
ID	Scenario Name	Unit	Size	Total Cost				
1	Monitoring, Management, Foregone Income	Acre	100	\$1,812.33	1	0.0%	2.8%	\$1,812.33
2	Greater Prairie Chicken Habitat Development	Acre	640	\$7,581.38	1	0.0%	2.8%	\$7,581.38
3	Wildlife Habitat Enhancement (FI)	Acre	640	\$10,044.19	1	0.0%	2.8%	\$10,044.19
4	Wildlife Habitat Enhancement - Former Cropland (FI)	Acre	100	\$18,425.83	1	0.0%	2.8%	\$18,425.83
289	Establishment of seasonal forage or cover for wildlife on cropla	Acre	10	\$3,218.54	1	0.0%	2.8%	\$3,218.54
635	Vegetated Treatment Area							\$1,645.08
1	Concrete Curb, with or without flow spreaders	Acre	2	\$8,126.96	10	3.0%	2.8%	\$1,186.84
3	Gated Pipe, with or without flow spreaders	Acre	10	\$22,787.02	10	3.0%	2.8%	\$3,327.75
8	Minor Shaping	Acre	2	\$2,880.36	10	3.0%	2.8%	\$420.64
360	Waste Facility Closure							\$1,213.25
2	Earthen Waste Impoundment Closure	Cubic Foot	100,000	\$10,778.72	15	3.0%	2.8%	\$1,213.25
632	Waste Separation Facility							\$4,547.42
3	Earthen settling structure with pipe outlet	Cubic Foot	30,000	\$7,962.16	15	2.0%	2.8%	\$816.60
5	Concrete Settling Structure with picket screen outlet	Cubic Foot	4,000	\$11,670.53	15	2.0%	2.8%	\$1,196.92
6	Concrete Sand Settling Lane	Square Foot	16,280	\$113,385.27	15	2.0%	2.8%	\$11,628.73
313	Waste Storage Facility							\$7,303.86
1	Embankment Storage Pond	Cubic Foot	865,400	\$69,014.44	15	2.0%	2.8%	\$7,078.09
2	Excavated Storage Pond	Cubic Foot	382,000	\$56,386.34	15	2.0%	2.8%	\$5,782.95
3	Buried Concrete Tank, Less than 14,999 c.f. of storage	Cubic Foot	9,000	\$27,546.55	15	2.0%	2.8%	\$2,825.16
6	Steel or Concrete Above Ground Storage Structure	Cubic Foot	66,000	\$171,528.51	15	2.0%	2.8%	\$17,591.88
14	Dry Stack - Concrete floor and concrete walls	Square Foot	4,000	\$31,603.24	15	2.0%	2.8%	\$3,241.21
634	Waste Transfer							\$1,386.64
2	Gravity flow, less than or equal to 18' diameter conduit	Foot	150	\$3,804.93	15	2.0%	2.8%	\$390.23
3	Gravity flow, greater than 18' diameter conduit	Foot	150	\$6,395.74	15	2.0%	2.8%	\$655.94

Scenario Information					Life Span	O&M Factor	Interest Rate	Average Annual Cost
ID	Scenario Name	Unit	Size	Total Cost				
4	Pressure flow, less than or equal to 6' diameter conduit	Foot	1,000	\$13,538.35	15	2.0%	2.8%	\$1,388.49
5	Pressure flow, 8' diameter conduit	Foot	1,000	\$19,375.59	15	2.0%	2.8%	\$1,987.15
6	Pressure flow, 10' diameter conduit	Foot	1,000	\$26,291.09	15	2.0%	2.8%	\$2,696.40
7	Pressure flow, 12' or greater diameter conduit	Foot	300	\$11,716.63	15	2.0%	2.8%	\$1,201.65
629	Waste Treatment							\$30,065.75
1	Swine Waste, Phosphorus Reduction System	allon per Minut	600	\$383,827.03	10	3.0%	2.8%	\$56,052.98
2	Pathogen Removal System	allon per Minut	300	\$27,928.00	10	3.0%	2.8%	\$4,078.52
359	Waste Treatment Lagoon							\$5,462.88
1	Embankment Lagoon	Cubic Foot	455,616	\$45,215.36	15	2.0%	2.8%	\$4,637.26
2	Excavated Lagoon	Cubic Foot	455,616	\$61,315.65	15	2.0%	2.8%	\$6,288.50
638	Water and Sediment Control Basin							\$432.69
1	WASCOB base	Cubic Yard	700	\$2,850.56	10	3.0%	2.8%	\$416.29
2	WASCOB topsoil	Cubic Yard	700	\$3,075.09	10	3.0%	2.8%	\$449.08
642	Water Well							\$652.38
3	Shallow Well, 100 ft. deep or less	Foot	75	\$5,299.51	20	1.0%	2.8%	\$402.65
5	Single PVC Casing, greater than 100 ft. deep	Foot	200	\$10,026.22	20	1.0%	2.8%	\$761.78
6	Single PVC Casing with pitless unit, greater than 100 ft. deep	Foot	200	\$10,433.22	20	1.0%	2.8%	\$792.71
614	Watering Facility							\$266.04
2	Steel Tank	Gallon	1,200	\$2,010.88	20	1.0%	2.8%	\$152.78
3	Rubber Tire Tank on Earth	Gallon	1,200	\$1,933.88	20	1.0%	2.8%	\$146.93
4	Fiberglass Tank on Earth	Gallon	1,200	\$3,102.43	20	1.0%	2.8%	\$235.72
5	Rubber Tire Tank on Concrete	Gallon	1,200	\$2,301.42	20	1.0%	2.8%	\$174.86
6	Fiberglass Tank on Concrete	Gallon	1,200	\$3,469.97	20	1.0%	2.8%	\$263.64
7	Steel Rim Tank - Bottomless	Gallon	10,500	\$3,976.44	20	1.0%	2.8%	\$302.13

Scenario Information					Life Span	O&M Factor	Interest Rate	Average Annual Cost
ID	Scenario Name	Unit	Size	Total Cost				
8	Steel Rim Tank - Concrete Base	Gallon	4,700	\$6,434.07	20	1.0%	2.8%	\$488.85
9	Water Fountain	Each	1	\$1,853.62	20	1.0%	2.8%	\$140.84
10	Precast Concrete Tank	Gallon	500	\$1,823.70	20	1.0%	2.8%	\$138.56
12	Enclosed Storage Tank	Gallon	5,000	\$8,108.46	20	1.0%	2.8%	\$616.07
351	Well Decommissioning							\$530.30
3	Drilled, less than 300 feet	Foot	250	\$5,672.17	20	0.0%	2.8%	\$374.24
4	Drilled, between 300 and 1,000 feet	Foot	500	\$10,402.57	20	0.0%	2.8%	\$686.35
658	Wetland Creation							\$575.30
1	Wetland Creation, Excavation	Cubic Yard	1,613	\$3,920.78	15	1.0%	2.8%	\$362.91
2	Excavation at Saturated Site	Cubic Yard	1,613	\$7,539.83	15	1.0%	2.8%	\$697.88
3	Excavation and Embankment	Cubic Yard	1,613	\$7,185.81	15	1.0%	2.8%	\$665.11
659	Wetland Enhancement							\$2,267.16
1	Excavation	Cubic Yard	8,067	\$18,126.23	15	1.0%	2.8%	\$1,677.75
2	Excavation on Saturated Site	Cubic Yard	8,067	\$36,225.95	15	1.0%	2.8%	\$3,353.06
3	Depression Sediment Removal and Ditch Plug	Cubic Yard	8,317	\$19,129.98	15	1.0%	2.8%	\$1,770.66
657	Wetland Restoration							\$380.84
1	Fill in dugout	Cubic Yard	1,000	\$3,788.34	15	1.0%	2.8%	\$350.65
2	Depression Sediment Removal	Cubic Yard	1,613	\$6,963.65	15	1.0%	2.8%	\$644.55
3	Sediment Removal - Saturated Site	Cubic Yard	1,613	\$7,539.83	15	1.0%	2.8%	\$697.88
4	Ditchplug - Lateral Restoration	Cubic Yard	111	\$939.64	15	1.0%	2.8%	\$86.97
5	Embankment - Fill Height <= 4 feet	Cubic Yard	211	\$1,341.14	15	1.0%	2.8%	\$124.14
644	Wetland Wildlife Habitat Management							\$1,647.23
1	Haul fill with Native seed bank.	Acre	10	\$1,912.81	1	0.0%	2.8%	\$1,912.81
3	Management and monitoring only, foregone income (FI)	Acre	10	\$1,996.77	1	0.0%	2.8%	\$1,996.77

Scenario Information					Life Span	O&M Factor	Interest Rate	Average Annual Cost
ID	Scenario Name	Unit	Size	Total Cost				
12	Wetland Wildlife Habitat Monitoring and Management, Low Inte	Acre	160	\$522.40	1	0.0%	2.8%	\$522.40
26	Establishment of seasonal wildlife forage or cover on non-cropl	Acre	10	\$1,647.62	1	0.0%	2.8%	\$1,647.62
28	Establishment of annual vegetation on cropland, with FI	Acre	10	\$3,281.38	1	0.0%	2.8%	\$3,281.38
30	Wetland Wildlife Habitat Monitoring and Management, Low Inte	Acre	160	\$522.40	1	0.0%	2.8%	\$522.40
380	Windbreak/Shelterbelt Establishment							\$144.39
1	Hand Planted, Bare Root	Each	80	\$150.94	15	1.0%	2.8%	\$13.97
5	Trees, machine planted	Foot	2,500	\$662.91	15	1.0%	2.8%	\$61.36
6	Trees, machine planted, wildlife protection	Foot	2,500	\$2,010.79	15	1.0%	2.8%	\$186.12
9	1 row windbreak, trees, hand planted, balled and burlap <18', s	Foot	500	\$710.80	15	1.0%	2.8%	\$65.79
11	Trees, machine planted, supplemental water for establishment	Foot	2,500	\$2,238.31	15	1.0%	2.8%	\$207.18
12	Trees, machine planted, wildlife protection, supplemental water	Foot	2,500	\$3,586.19	15	1.0%	2.8%	\$331.94
650	Windbreak/Shelterbelt Renovation							\$162.13
2	Thinning	Foot	1,000	\$385.48	15	3.0%	2.8%	\$43.39
5	Coppicing - less than 50 percent of the windbreak	Foot	1,000	\$934.71	15	3.0%	2.8%	\$105.21
7	Supplemental Planting-Container	Acre	1	\$708.23	15	3.0%	2.8%	\$79.72
8	Supplemental Planting-Container, Wildlife Protection	Acre	1	\$3,228.64	15	3.0%	2.8%	\$363.41
9	Supplemental Plantings-Bare Root	Acre	1	\$629.18	15	3.0%	2.8%	\$70.82
10	Supplemental Plantings-Bare Root, Wildlife Protection	Acre	1	\$3,149.59	15	3.0%	2.8%	\$354.52
11	Supplemental Plantings-Machine	Foot	1,000	\$262.43	15	3.0%	2.8%	\$29.54
12	Supplemental Plantings-Machine, Wildlife Protection	Foot	1,000	\$747.54	15	3.0%	2.8%	\$84.14
13	Supplemental Plantings-Machine, supplemental water for estab	Foot	1,000	\$1,021.48	15	3.0%	2.8%	\$114.98
14	Supplemental Plantings-Machine, Wildlife Protection, suppleme	Foot	1,000	\$1,506.58	15	3.0%	2.8%	\$169.58
15	Hand Planted, Bare Root	Foot	600	\$150.94	15	3.0%	2.8%	\$16.99
16	Hand Planted, Potted	Foot	600	\$437.12	15	3.0%	2.8%	\$49.20

Scenario Information					Life Span	O&M Factor	Interest Rate	Average Annual Cost
ID	Scenario Name	Unit	Size	Total Cost				
17	Hand Planted, Bare Root, supplemental water for establishment	Foot	600	\$664.30	15	3.0%	2.8%	\$74.77
18	Hand Planted, Potted, supplemental water for establishment	Foot	600	\$950.48	15	3.0%	2.8%	\$106.99
22	Supplemental Plantings-Machine, Weed Barrier	Foot	1,000	\$733.91	15	3.0%	2.8%	\$82.61
23	Supplemental Plantings-Machine, Wildlife Protection, Weed Bar	Foot	1,000	\$1,521.59	15	3.0%	2.8%	\$171.27
24	Supplemental Plantings-B&B>18', Wildlife protection, Suppleme	Each	350	\$7,454.36	15	3.0%	2.8%	\$839.06