

Enter Watershed Variables Below										
Watershed Name <input type="text" value="Buffalo"/>			Watershed Code <input type="text" value="09020106"/>					<input type="button" value="Help"/>		
Landuse Type <input type="text" value="Pasture"/>			Landuse Acres <input type="text" value="66,179"/>			Interest Rate <input type="text" value="5%"/>				
Typical Unit Size (ac) <input type="text" value="60"/>			Percent TA of FA <input type="text" value="20%"/>			Cost-Share Rate <input type="text" value="50%"/>				
<i>Estimated Time Frame = 5 years</i>	Participation Rate <input type="text" value="10%"/> <small>(Based on Watershed Profile)</small>			COMPARE	<input type="text" value="5%"/>		Calculated Participation Rate <small>(Based on Projected Future Conditions)</small>			<input type="button" value="Next"/>
Current Conditions			Projected Change			Projected Future Condition				
System	Percent	Acres	System	Percent	Acres	System	Percent	Acres		
Baseline	85%	56,252	Baseline	98%	54,846	Baseline	83%	Total	Static	Treated
			Progressive	1%	281			54,846	54,846	0
			RMS	2%	1,125					
			<i>Must Total 100%</i>			<i>100%</i>				
Current Conditions			Projected Change			Projected Future Condition				
System	Percent	Acres	System	Percent	Acres	System	Percent	Acres		
Progressive	5%	3,309	Progressive	50%	1,654	Progressive	3%	Total	Static	Treated
			RMS	50%	1,654			1,936	1,654	281
			<i>Must Total 100%</i>			<i>100%</i>				
Current Conditions			0			Projected Future Condition				
System	Percent	Acres	System	Percent	Acres	System	Percent	Acres		
RMS	10%	6,618	RMS	100%	6,618	RMS	14%	Total	Static	Treated
								9,397	6,618	2,780
Grand Totals										
	100%	66,179					100%	66,179	63,118	3,061

DOCUMENTATION SECTION

PRACTICE FACTOR SHEET

Only shaded practices are in this analysis.

Modify the formula for each Base, Prog, RMS to enter feet, no. or acres for each practice factor.

Please enter appropriate factor for each level of treatment (Baseline, Progressive, & RMS)

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Code	BASE	PROG	RMS	SHORT NOTE <i>TU = Typical Unit Size</i>	Practice Name
382	x 4,000	x 7,000	x 15,000	FEET per TU	Fence (ft.) 382
472	25.0%	25.0%	x 8.0%	PERCENT of TU	Use Exclusion (ac.) 472
512	10.0%	x 20.0%	x 50.0%	PERCENT of TU	Pasture & Hayland Planting (ac.) 512
516	1,000	x 1,000	x 2,000	FEET per TU	Pipeline (ft.) 516
528	100.0%	100.0%	x 100.0%	PERCENT of TU	Prescribed Grazing (ac.) 528
533	1	x 1	x 1	NUMBER per TU	Pumping Plant (no.) 533
561	10.0%	10.0%	x 0.1%	PERCENT of TU	Heavy Use Area Protection (ac.) 561
575	5.0%	5.0%	x 2.0%	PERCENT of TU	Animal Trails and Walkways (ac.) 575
578	50	50	x 50	FEET per TU	Stream Crossing 578
614	1	x 2	x 3	NUMBER per TU	Watering Facility (no.) 614
642	1	x 1	x 1	NUMBER per TU	Water Well (no.) 642
378	1	0.5	0.5	NUMBER per TU	Pond (no.) 378
511	100.0%	100.0%	20.0%	PERCENT of TU	Forage Harvest Management (ac.) 511
595	100.0%	8.0%	100.0%	PERCENT of TU	Pest Management (ac.) 595
645	100.0%	10.0%	100.0%	PERCENT of TU	Upland Wildlife Habitat Management (ac.) 645
327	10.0%	10.0%	10.0%	PERCENT of TU	Conservation Cover (ac.) 327
328	100.0%	100.0%	100.0%	PERCENT of TU	Conservation Crop Rotation (ac.) 328
344	80.0%	100.0%	100.0%	PERCENT of TU	Residue Management, Seasonal (ac.) 344
362	500	500	25	FEET per TU	Diversion (ft.) 362
380	500	500	500	FEET per TU	Windbreak/Shelterbreak Establishment (ft.) 380
393	10.0%	1.0%	2.0%	PERCENT of TU	Filter Strip (ac.) 393
412	5.0%	0.5%	1.0%	PERCENT of TU	Grassed Waterway (ac.) 412
590	100.0%	10.0%	100.0%	PERCENT of TU	Nutrient Management (ac.) 590
600	5,000	5,000	100	FEET per TU	Terrace (ft.) 600
606	10,000	16,000	20,000	FEET per TU	Subsurface Drain (ft.) 606
633	100.0%	100.0%	10.0%	PERCENT of TU	Waste Utilization (ac.) 633
638	1	1	2	NUMBER per TU	Water & Sediment Control Basin (no.) 638
644	100.0%	100.0%	1.0%	PERCENT of TU	Wetland Wildlife Habitat Management (ac.) 644
657	100.0%	100.0%	0.5%	PERCENT of TU	Wetland Restoration (ac.) 657
329A	100.0%	5.0%	8.0%	PERCENT of TU	Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329A

Help

WATERSHED NAME & CODE		BUFFALO - 09020106			LANDUSE ACRES		66,179		
LANDUSE TYPE		PASTURE			TYPICAL UNIT SIZE ACRES		60		
ASSESSMENT INFORMATION					ESTIMATED PARTICIPATION		5%		
CONSERVATION SYSTEMS BY TREATMENT LEVELS		CURRENT CONDITIONS	FUTURE CONDITIONS			RESOURCE CONCERNS			
		Total Units	Existing Unchanged Units	New Treatment Units	Total Units	Water Quality – Excessive Nutrients and Organics in	Plant Condition – Noxious and Invasive Plants	Plant Condition – Forage Quality and Palatability	Domestic Animals – Inadequate Stock Water
Baseline System		System Rating ->			0	0	0	0	
Total Acreage at Baseline Level		56,252	54,846	0	54,846				
Fence (ft.) 382		3,750,143	3,656,390	0	3,656,390	1	0	1	0
Progressive System		System Rating ->			2	3	3	3	
Total Acreage at Progressive Level		3,309	1,654	281	1,936				
Fence (ft.) 382		386,044	211,773	14,063	225,836	1	0	1	0
Pasture & Hayland Planting (ac.) 512		662	331	56	387	2	5	5	0
Pipeline (ft.) 516		55,149	27,575	4,688	32,262	0	0	0	0
Pumping Plant (no.) 533		55	28	5	32	0	0	0	0
Water Well (no.) 642		55	28	5	32	0	0	0	3
Watering Facility (no.) 614		110	55	9	65	4	0	1	4
Resource Management System (RMS)		System Rating ->			4	4	4	3	
Total Acreage at RMS Level		6,618	6,618	2,780	9,397				
Animal Trails and Walkways (ac.) 575		132	132	56	188	3	0	0	0
Fence (ft.) 382		1,654,475	1,922,500	426,855	2,349,355	1	0	1	0
Heavy Use Area Protection (ac.) 561		3	3	1	5	3	0	0	0
Pasture & Hayland Planting (ac.) 512		3,309	3,640	1,059	4,699	2	5	5	0
Pipeline (ft.) 516		220,597	248,171	65,076	313,247	0	0	0	0
Prescribed Grazing (ac.) 528		6,618	6,618	2,780	9,397	3	4	3	0
Pumping Plant (no.) 533		110	138	19	157	0	0	0	0
Stream Crossing 578		5,515	5,515	2,316	7,831	-1	0	0	0
Use Exclusion (ac.) 472		529	529	222	752	1	1	0	1
Water Well (no.) 642		110	138	19	157	0	0	0	3
Watering Facility (no.) 614		331	386	84	470	4	0	1	4

WATERSHED NAME & CODE		BUFFALO - 09020106						LANDUSE ACRES			66,179
LANDUSE TYPE		PASTURE						TYPICAL UNIT SIZE ACRES			60
POSSIBLE SOURCES OF FUNDING							ESTIMATED PARTICIPATION			5%	
CONSERVATION SYSTEMS BY TREATMENT LEVELS		FUTURE	USDA INVESTMENT					OTHERS			NOTES/COMMENTS
		New Treatment Units	CTA	EQIP	WRP	WHIP	CSP	CRP/ CREP	Fed	State	
Progressive System Acres Treated		281									
Fence (ft.) 382	14,063	X									
Pasture & Hayland Planting (ac.) 512	56	X	X			X					
Pipeline (ft.) 516	4,688	X									
Pumping Plant (no.) 533	5	X									
Water Well (no.) 642	5	X		X		X					
Watering Facility (no.) 614	9	X	X			X	X				
Resource Management System (RMS) Acres Treated	2,780										
Animal Trails and Walkways (ac.) 575	56	X					X				
Fence (ft.) 382	426,855	X									
Heavy Use Area Protection (ac.) 561	1	X	X			X					
Pasture & Hayland Planting (ac.) 512	1,059	X	X			X					
Pipeline (ft.) 516	65,076	X									
Prescribed Grazing (ac.) 528	2,780	X									
Pumping Plant (no.) 533	19	X									
Stream Crossing 578	2,316	X	X				X				
Use Exclusion (ac.) 472	222	X	X				X				
Water Well (no.) 642	19	X		X		X					
Watering Facility (no.) 614	84	X	X			X	X				

WATERSHED NAME & CODE		BUFFALO - 09020106				LANDUSE ACRES		66,179	
LANDUSE TYPE		PASTURE				TYPICAL UNIT SIZE ACRES		60	
ASSESSMENT INFORMATION						ESTIMATED PARTICIPATION		5%	
CONSERVATION SYSTEMS BY TREATMENT LEVELS		CURRENT CONDITIONS	FUTURE CONDITIONS			RESOURCE CONCERNS			
		Total Units	Existing Unchanged Units	New Treatment Units	Total Units	Water Quality - Excessive Nutrients and Organics in Surface Waters	Plant Condition - Noxious and Invasive Plants	Plant Condition - Forage Quality and Palatability	Domestic Animals - Inadequate Stock Water
Baseline System		System Rating ->				0	0	0	0
Total Acreage at Baseline Level		56,252	54,846	0	54,846				
Fence (ft.) 382		3,750,143	3,656,390	0	3,656,390	1	0	1	0
Progressive System		System Rating ->				2	3	3	3
Total Acreage at Progressive Level		3,309	1,654	281	1,936				
Fence (ft.) 382		386,044	211,773	14,063	225,836	1	0	1	0
Pasture & Hayland Planting (ac.) 512		662	331	56	387	2	5	5	0
Pipeline (ft.) 516		55,149	27,575	4,688	32,262	0	0	0	0
Pumping Plant (no.) 533		55	28	5	32	0	0	0	0
Water Well (no.) 642		55	28	5	32	0	0	0	3
Watering Facility (no.) 614		110	55	9	65	4	0	1	4
Resource Management System (RMS)		System Rating ->				4	4	4	3
Total Acreage at RMS Level		6,618	6,618	2,780	9,397				
Animal Trails and Walkways (ac.) 575		132	132	56	188	3	0	0	0
Fence (ft.) 382		1,654,475	1,922,500	426,855	2,349,355	1	0	1	0
Heavy Use Area Protection (ac.) 561		3	3	1	5	3	0	0	0
Pasture & Hayland Planting (ac.) 512		3,309	3,640	1,059	4,699	2	5	5	0
Pipeline (ft.) 516		220,597	248,171	65,076	313,247	0	0	0	0
Prescribed Grazing (ac.) 528		6,618	6,618	2,780	9,397	3	4	3	0
Pumping Plant (no.) 533		110	138	19	157	0	0	0	0
Stream Crossing 578		5,515	5,515	2,316	7,831	-1	0	0	0
Use Exclusion (ac.) 472		529	529	222	752	1	1	0	1
Water Well (no.) 642		110	138	19	157	0	0	0	3
Watering Facility (no.) 614		331	386	84	470	4	0	1	4
CONSERVATION INVESTMENT INFORMATION									
CONSERVATION SYSTEMS BY TREATMENT LEVELS		FUTURE	USDA INVESTMENT			PRIVATE INVESTMENT			
		New Treatment Units	Installation Cost 50%	Management Cost - 3 yrs 100%	Technical Assistance 20%	Total Present Value Cost	Installation Cost 50%	Annual O & M + Mgt Costs 100%	Total Present Value Cost
Progressive System Acres Treated		281.26075							
Fence (ft.) 382		14,063	\$8,297	\$0	\$1,659	\$9,957	\$8,297	\$332	\$9,734
Pasture & Hayland Planting (ac.) 512		56	\$5,913	\$0	\$1,183	\$7,095	\$5,913	\$118	\$6,425
Pipeline (ft.) 516		4,688	\$4,922	\$0	\$984	\$5,906	\$4,922	\$197	\$5,774
Pumping Plant (no.) 533		5	\$9,024	\$0	\$1,805	\$10,829	\$9,024	\$361	\$10,587
Water Well (no.) 642		5	\$9,619	\$0	\$1,924	\$11,543	\$9,619	\$192	\$10,452
Watering Facility (no.) 614		9	\$1,238	\$0	\$248	\$1,485	\$1,238	\$25	\$1,345
Subtotal			\$39,012	\$0	\$7,802	\$46,815	\$39,012	\$1,225	\$44,316
Resource Management System (RMS) Acres Treated		2779.518							
Animal Trails and Walkways (ac.) 575		56	\$417	\$0	\$83	\$500	\$417	\$17	\$489
Fence (ft.) 382		426,855	\$251,844	\$0	\$50,369	\$302,213	\$251,844	\$10,074	\$295,458
Heavy Use Area Protection (ac.) 561		1	\$17,726	\$0	\$3,545	\$21,272	\$17,726	\$5,318	\$40,750
Pasture & Hayland Planting (ac.) 512		1,059	\$111,297	\$0	\$22,259	\$133,557	\$111,297	\$2,226	\$120,934
Pipeline (ft.) 516		65,076	\$68,330	\$0	\$13,666	\$81,996	\$68,330	\$2,733	\$80,163
Prescribed Grazing (ac.) 528		2,780	\$41,693	\$0	\$8,339	\$50,031	\$41,693	\$0	\$41,693
Pumping Plant (no.) 533		19	\$36,095	\$0	\$7,219	\$43,314	\$36,095	\$1,444	\$42,346
Stream Crossing 578		2,316	\$4,535,861	\$0	\$907,172	\$5,443,033	\$4,535,861	\$907,172	\$8,463,441
Use Exclusion (ac.) 472		222	\$13,898	\$0	\$2,780	\$16,677	\$13,898	\$834	\$17,508
Water Well (no.) 642		19	\$38,476	\$0	\$7,695	\$46,171	\$38,476	\$770	\$41,807
Watering Facility (no.) 614		84	\$11,065	\$0	\$2,213	\$13,278	\$11,065	\$221	\$12,023
Subtotal			\$5,126,702	\$0	\$1,025,340	\$6,152,042	\$5,126,702	\$930,808	\$9,156,614
TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS		3060.77875	\$5,165,714	\$0	\$1,033,143	\$6,198,856	\$5,165,714	\$932,033	\$9,200,930

Note: Estimates for Matrices are for general planning purposes only and not based on actual funding.