

Enter Watershed Variables Below

Watershed Name	<input type="text" value="Lower Marais des Cygnes"/>	Watershed Code	<input type="text" value="10290102"/>	<input type="button" value="Help"/>	
Landuse Type	<input type="text" value="Cultivated Cropland"/>	Landuse Acres	<input type="text" value="366,500"/>	Interest Rate	<input type="text" value="6%"/>
Typical Unit Size (ac)	<input type="text" value="120"/>	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 <small>(Based on Watershed Profile)</small>	COMPARE	<input type="text" value="8%"/>	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		
								Total	Static	Treated
Baseline	65%	238,225	Baseline	90%	214,403	Baseline	59%	214,403	214,403	0
			Progressive	9%	21,440					
			RMS	1%	2,382					
			<i>Must Total 100%</i>		<i>100%</i>					
Current Conditions			Projected Change			Projected Future Condition				
System	Percent	Acres	System	Percent	Acres	System	Percent	Acres		
								Total	Static	Treated
Progressive	30%	109,950	Progressive	97%	106,652	Progressive	35%	128,092	106,652	21,440
			RMS	3%	3,299					
			<i>Must Total 100%</i>		<i>100%</i>					
Current Conditions			Projected Change			Projected Future Condition				
System	Percent	Acres	System	Percent	Acres	System	Percent	Acres		
								Total	Static	Treated
RMS	5%	18,325	RMS	100%	18,325	RMS	7%	24,006	18,325	5,681
Grand Totals	100%	366,500					100%	366,500	339,379	27,121

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)

Back

Next

Code	BASE	PROG	RMS	SHORT NOTE <i>TU = Typical Unit Size</i>	Practice Name
328	x 100.0%	x 100.0%	x 100.0%	PERCENT of TU	Conservation Crop Rotation (ac.) 328
329	0.0%	0.0%	x 100.0%	PERCENT of TU	Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329
330	0.0%	x 30.0%	x 30.0%	PERCENT of TU	Contour Farming (ac.) 330
342	0.0%	x 3.0%	x 3.0%	PERCENT of TU	Critical Area Planting (ac.) 342
344	x 100.0%	x 100.0%	x 100.0%	PERCENT of TU	Residue Management, Seasonal (ac.) 344
345	0.0%	x 100.0%	0.0%	PERCENT of TU	Residue and Tillage Management, Mulch Till (ac.) 345
362	0	0	x 1,000	FEET per TU	Diversion (ft.) 362
386	0	0	x 5,000	FEET per TU	Field Border (ft.) 386
393	0.0%	x 2.0%	x 2.0%	PERCENT of TU	Filter Strip (ac.) 393
412	x 5.0%	x 3.0%	x 3.0%	PERCENT of TU	Grassed Waterway (ac.) 412
472	0.0%	0.0%	x 3.0%	PERCENT of TU	Use Exclusion (ac.) 472
484	0.0%	x 3.0%	x 3.0%	PERCENT of TU	Mulching (ac.) 484
512	0.0%	x 15.0%	x 15.0%	PERCENT of TU	Pasture & Hayland Planting (ac.) 512
590	0.0%	0.0%	x 100.0%	PERCENT of TU	Nutrient Management (ac.) 590
595	0.0%	0.0%	x 100.0%	PERCENT of TU	Pest Management (ac.) 595
600	0	x 9,000	x 9,000	FEET per TU	Terrace (ft.) 600
620	0	0	x 1,200	FEET per TU	Underground Outlet (ft.) 620
645	0.0%	0.0%	x 3.0%	PERCENT of TU	Upland Wildlife Habitat Management (ac.) 645
346	100.0%	100.0%	100.0%	PERCENT of TU	Residue and Tillage Management, Ridge Till (ac.) 346
430AA	500	660	660	FEET per TU	Irrigation Water Conveyance, Pipeline, Aluminum Tubing (ft.) 430AA
430DD	500	500	660	FEET per TU	Irrigation Water Conveyance, Pipeline, High-Pressure, Underground, Plastic
443	100.0%	100.0%	100.0%	PERCENT of TU	Irrigation System, Surface and Subsurface (ac.) 443
449	100.0%	100.0%	100.0%	PERCENT of TU	Irrigation Water Management (ac.) 449
464	100.0%	100.0%	100.0%	PERCENT of TU	Irrigation Land Leveling (ac.) 464

Help

WATERSHED NAME & CODE		LOWER MARAIS DES CYGNES - 10290102			LANDUSE ACRES		366,500		
LANDUSE TYPE		CULTIVATED CROPLAND			TYPICAL UNIT SIZE ACRES		120		
ASSESSMENT INFORMATION					ESTIMATED PARTICIPATION		8%		
CONSERVATION SYSTEMS BY TREATMENT LEVELS		CURRENT CONDITIONS	FUTURE CONDITIONS			RESOURCE CONCERNS			
		Total Units	Existing Unchanged Units	New Treatment Units	Total Units	Soil Erosion – Sheet and Rill	Soil Erosion – Classic Gully	Water Quality – Harmful Levels of Pesticides in Surface Water	Water Quality – Excessive Nutrients and Organics in
Baseline System		System Rating ->			2	2	2	2	
Total Acreage at Baseline Level		238,225	214,403	0	214,403				
Conservation Crop Rotation (ac.) 328		238,225	214,403	0	214,403	4	1	2	
Grassed Waterway (ac.) 412		11,911	10,720	0	10,720	0	4	2	
Residue Management, Seasonal (ac.) 344		238,225	214,403	0	214,403	2	1	1	
Progressive System		System Rating ->			5	4	4	4	
Total Acreage at Progressive Level		109,950	106,652	21,440	128,092				
Conservation Crop Rotation (ac.) 328		109,950	128,092	0	128,092	4	1	2	
Contour Farming (ac.) 330		32,985	31,995	6,432	38,428	3	1	3	
Critical Area Planting (ac.) 342		3,299	3,200	643	3,843	5	4	0	
Filter Strip (ac.) 393		2,199	2,133	429	2,562	3	0	3	
Grassed Waterway (ac.) 412		3,299	3,843	0	3,843	0	4	2	
Mulching (ac.) 484		3,299	3,200	643	3,843	4	1	2	
Pasture and Hay Planting (ac.) 512		16,493	15,998	3,216	19,214	4	1	2	
Residue and Tillage Management, Mulch Till (ac.) 345		109,950	106,652	21,440	128,092	0	0	0	
Residue Management, Seasonal (ac.) 344		109,950	128,092	0	128,092	2	1	1	
Terrace (ft.) 600		8,246,250	7,998,863	1,608,019	9,606,881	5	2	3	
Resource Management System (RMS)		System Rating ->			5	5	5	5	
Total Acreage at RMS Level		18,325	18,325	5,681	24,006				
Conservation Crop Rotation (ac.) 328		18,325	24,006	0	24,006	4	1	2	
Contour Farming (ac.) 330		5,498	6,487	715	7,202	3	1	3	
Critical Area Planting (ac.) 342		550	649	71	720	5	4	0	
Diversion (ft.) 362		152,708	152,708	47,340	200,048	1	3	1	
Field Border (ft.) 386		763,542	763,542	236,698	1,000,240	4	2	2	
Filter Strip (ac.) 393		367	432	48	480	3	0	3	
Grassed Waterway (ac.) 412		550	720	0	720	0	4	2	
Mulching (ac.) 484		550	649	71	720	4	1	2	
Nutrient Management (ac.) 590		18,325	18,325	5,681	24,006	0	0	5	
Pasture and Hay Planting (ac.) 512		2,749	3,244	357	3,601	4	1	2	
Pest Management (ac.) 595		18,325	18,325	5,681	24,006	0	0	5	
Residue and Tillage Management, No-Till/Strip Till/Direct Seed (ac.) 329		18,325	18,325	5,681	24,006	5	1	5	
Residue Management, Seasonal (ac.) 344		18,325	24,006	0	24,006	2	1	1	
Terrace (ft.) 600		1,374,375	1,621,763	178,669	1,800,431	5	2	3	
Underground Outlet (ft.) 620		183,250	183,250	56,808	240,058	0	4	-1	
Upland Wildlife Habitat Management (ac.) 645		550	550	170	720	3	2	0	
Use Exclusion (ac.) 472		550	550	170	720	2	2	0	

WATERSHED NAME & CODE		LOWER MARAIS DES CYGNES - 10290102				LANDUSE ACRES		366,500	
LANDUSE TYPE		CULTIVATED CROPLAND				TYPICAL UNIT SIZE ACRES		120	
CONSERVATION INVESTMENT INFORMATION						ESTIMATED PARTICIPATION		8%	
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		21,440							
Conservation Crop Rotation (ac.) 328	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contour Farming (ac.) 330	6,432	\$0	\$96,481	\$19,296	\$105,261	\$0	\$32,160	\$49,506	
Critical Area Planting (ac.) 342	643	\$153,141	\$0	\$30,628	\$183,770	\$153,141	\$3,063	\$166,043	
Filter Strip (ac.) 393	429	\$15,008	\$0	\$3,002	\$18,010	\$15,008	\$900	\$18,801	
Grassed Waterway (ac.) 412	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Mulching (ac.) 484	643	\$0	\$192,962	\$38,592	\$210,523	\$0	\$64,321	\$99,012	
Pasture and Hay Planting (ac.) 512	3,216	\$217,324	\$0	\$43,465	\$260,788	\$217,324	\$8,693	\$253,942	
Residue and Tillage Management, Mulch Till (ac.) 345	21,440	\$0	\$643,208	\$128,642	\$701,742	\$0	\$214,403	\$330,041	
Residue Management, Seasonal (ac.) 344	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Terrace (ft.) 600	1,608,019	\$1,648,219	\$0	\$329,644	\$1,977,863	\$1,648,219	\$65,929	\$1,925,935	
Subtotal		\$2,033,692	\$932,651	\$593,269	\$3,457,957	\$2,033,692	\$389,469	\$2,843,280	
Resource Management System (RMS) Acres Treated		5,681							
Conservation Crop Rotation (ac.) 328	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contour Farming (ac.) 330	715	\$0	\$10,720	\$2,144	\$11,696	\$0	\$3,573	\$5,501	
Critical Area Planting (ac.) 342	71	\$17,016	\$0	\$3,403	\$20,419	\$17,016	\$340	\$18,449	
Diversion (ft.) 362	47,340	\$40,712	\$0	\$8,142	\$48,854	\$40,712	\$1,628	\$47,572	
Field Border (ft.) 386	236,698	\$5,917	\$0	\$1,183	\$7,101	\$5,917	\$237	\$6,915	
Filter Strip (ac.) 393	48	\$1,668	\$0	\$334	\$2,001	\$1,668	\$100	\$2,089	
Grassed Waterway (ac.) 412	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Mulching (ac.) 484	71	\$0	\$21,440	\$4,288	\$23,391	\$0	\$7,147	\$11,001	
Nutrient Management (ac.) 590	5,681	\$0	\$215,925	\$43,185	\$235,575	\$0	\$71,975	\$110,795	
Pasture and Hay Planting (ac.) 512	357	\$24,147	\$0	\$4,829	\$28,976	\$24,147	\$966	\$28,216	
Pest Management (ac.) 595	5,681	\$0	\$363,682	\$72,736	\$396,778	\$0	\$121,227	\$186,611	
Residue and Tillage Management, No-Till/Strip Till/Direct Seed (ac.) 329	5,681	\$0	\$308,976	\$61,795	\$337,094	\$0	\$102,992	\$158,541	
Residue Management, Seasonal (ac.) 344	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Terrace (ft.) 600	178,669	\$183,135	\$0	\$36,627	\$219,763	\$183,135	\$7,325	\$213,993	
Underground Outlet (ft.) 620	56,808	\$12,214	\$0	\$2,443	\$14,656	\$12,214	\$733	\$15,301	
Upland Wildlife Habitat Management (ac.) 645	170	\$0	\$7,669	\$1,534	\$8,367	\$0	\$2,556	\$3,935	
Use Exclusion (ac.) 472	170	\$426	\$0	\$85	\$511	\$426	\$26	\$534	
Subtotal		\$285,235	\$928,412	\$242,729	\$1,355,183	\$285,235	\$320,826	\$809,452	
TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS		0	\$2,318,927	\$1,861,063	\$835,998	\$4,813,140	\$2,318,927	\$710,295	\$3,652,732

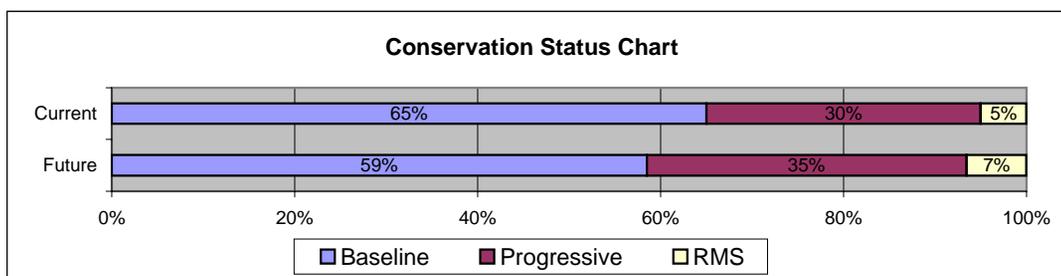


Chart Refers To	
Landuse Type	CULTIVATED CROPLAND
Estimated Participation Rate	8%

Average PV Costs per Ac		
System	Federal	Private
Prog	\$161	\$133
RMS	\$239	\$142

Estimated FTE per Year	1.7
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WATERSHED NAME & CODE		LOWER MARAIS DES CYGNES - 10290102						LANDUSE ACRES			366,500
LANDUSE TYPE		CULTIVATED CROPLAND						TYPICAL UNIT SIZE ACRES			120
POSSIBLE SOURCES OF FUNDING							ESTIMATED PARTICIPATION				8%
CONSERVATION SYSTEMS BY TREATMENT LEVELS		FUTURE New Treatment Units	USDA INVESTMENT					OTHERS			NOTES/COMMENTS
			CTA	EQIP	WRP	WHIP	CSP	CRP/ CREP	Fed	State	
Progressive System Acres Treated		21,440									
Conservation Crop Rotation (ac.) 328	0	X	X								
Contour Farming (ac.) 330	6,432	X									
Critical Area Planting (ac.) 342	643	X	X								
Filter Strip (ac.) 393	429	X					X				
Grassed Waterway (ac.) 412	0	X	X				X				
Mulching (ac.) 484	643	X		X							
Pasture and Hay Planting (ac.) 512	3,216	X	X								
Residue and Tillage Management, Mulch Till (ac.) 345	21,440	X									
Residue Management, Seasonal (ac.) 344	0	X									
Terrace (ft.) 600	1,608,019	X	X				X				
Resource Management System (RMS) Acres Treated		5,681									
Conservation Crop Rotation (ac.) 328	0	X	X								
Contour Farming (ac.) 330	715	X									
Critical Area Planting (ac.) 342	71	X	X								
Diversion (ft.) 362	47,340	X	X	X							
Field Border (ft.) 386	236,698	X	X				X				
Filter Strip (ac.) 393	48	X					X				
Grassed Waterway (ac.) 412	0	X	X				X				
Mulching (ac.) 484	71	X		X							
Nutrient Management (ac.) 590	5,681	X	X								
Pasture and Hay Planting (ac.) 512	357	X	X								
Pest Management (ac.) 595	5,681	X	X								
Residue and Tillage Management, No-Till/Strip Till/Direct Seed (ac.) 329	5,681	X	X								
Residue Management, Seasonal (ac.) 344	0	X									
Terrace (ft.) 600	178,669	X	X				X				
Underground Outlet (ft.) 620	56,808	X	X								
Upland Wildlife Habitat Management (ac.) 645	170	X	X								
Use Exclusion (ac.) 472	170	X	X	X							

WATERSHED NAME & CODE		LOWER MARAIS DES CYGNES - 10290102				LANDUSE ACRES		366,500	
LANDUSE TYPE		CULTIVATED CROPLAND				TYPICAL UNIT SIZE ACRES		120	
ASSESSMENT INFORMATION						ESTIMATED PARTICIPATION		8%	
CONSERVATION SYSTEMS BY TREATMENT LEVELS		CURRENT CONDITIONS	FUTURE CONDITIONS			RESOURCE CONCERNS			
		Total Units	Existing Unchanged Units	New Treatment Units	Total Units	Soil Erosion – Sheet and Rill	Soil Erosion – Classic Gully	Water Quality – Harmful Levels of Pesticides in Surface Water	Water Quality – Excessive Nutrients and Organics in Surface Water
Baseline System		System Rating ->				2	2	2	2
Total Acreage at Baseline Level		238,225	214,403	0	214,403				
Conservation Crop Rotation (ac.) 328		238,225	214,403	0	214,403	4	1	2	2
Grassed Waterway (ac.) 412		11,911	10,720	0	10,720	0	4	2	2
Residue Management, Seasonal (ac.) 344		238,225	214,403	0	214,403	2	1	1	1
Progressive System		System Rating ->				5	4	4	4
Total Acreage at Progressive Level		109,950	106,652	21,440	128,092				
Conservation Crop Rotation (ac.) 328		109,950	128,092	0	128,092	4	1	2	2
Contour Farming (ac.) 330		32,985	31,995	6,432	38,428	3	1	1	3
Critical Area Planting (ac.) 342		3,299	3,200	643	3,843	5	4	0	2
Filter Strip (ac.) 393		2,199	2,133	429	2,562	3	0	3	5
Grassed Waterway (ac.) 412		3,299	3,843	0	3,843	0	4	2	2
Mulching (ac.) 484		3,299	3,200	643	3,843	4	1	2	2
Pasture and Hay Planting (ac.) 512		16,493	15,998	3,216	19,214	4	1	2	2
Residue and Tillage Management, Mulch Till (ac.) 345		109,950	106,652	21,440	128,092	0	0	0	0
Residue Management, Seasonal (ac.) 344		109,950	128,092	0	128,092	2	1	1	1
Terrace (ft.) 600		8,246,250	7,998,863	1,608,019	9,606,881	5	2	3	2
Resource Management System (RMS)		System Rating ->				5	5	5	5
Total Acreage at RMS Level		18,325	18,325	5,681	24,006				
Conservation Crop Rotation (ac.) 328		18,325	24,006	0	24,006	4	1	2	2
Contour Farming (ac.) 330		5,498	6,487	715	7,202	3	1	1	3
Critical Area Planting (ac.) 342		550	649	71	720	5	4	0	2
Diversion (ft.) 362		152,708	152,708	47,340	200,048	1	3	1	0
Field Border (ft.) 386		763,542	763,542	236,698	1,000,240	4	2	2	2
Filter Strip (ac.) 393		367	432	48	480	3	0	3	5
Grassed Waterway (ac.) 412		550	720	0	720	0	4	2	2
Mulching (ac.) 484		550	649	71	720	4	1	2	2
Nutrient Management (ac.) 590		18,325	18,325	5,681	24,006	0	0	0	5
Pasture and Hay Planting (ac.) 512		2,749	3,244	357	3,601	4	1	2	2
Pest Management (ac.) 595		18,325	18,325	5,681	24,006	0	0	5	0
Residue and Tillage Management, No-Till/Strip Till/Direct Seed (ac.) 329		18,325	18,325	5,681	24,006	5	1	5	1
Residue Management, Seasonal (ac.) 344		18,325	24,006	0	24,006	2	1	1	1
Terrace (ft.) 600		1,374,375	1,621,763	178,669	1,800,431	5	2	3	2
Underground Outlet (ft.) 620		183,250	183,250	56,808	240,058	0	4	-1	-1
Upland Wildlife Habitat Management (ac.) 645		550	550	170	720	3	2	0	0
Use Exclusion (ac.) 472		550	550	170	720	2	2	0	2
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		21440.25							
Conservation Crop Rotation (ac.) 328		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contour Farming (ac.) 330		6,432	\$0	\$96,481	\$19,296	\$105,261	\$0	\$32,160	\$49,506
Critical Area Planting (ac.) 342		643	\$153,141	\$0	\$30,628	\$183,770	\$153,141	\$3,063	\$166,043
Filter Strip (ac.) 393		429	\$15,008	\$0	\$3,002	\$18,010	\$15,008	\$900	\$18,801
Grassed Waterway (ac.) 412		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Mulching (ac.) 484		643	\$0	\$192,962	\$38,592	\$210,523	\$0	\$64,321	\$99,012
Pasture and Hay Planting (ac.) 512		3,216	\$217,324	\$0	\$43,465	\$260,788	\$217,324	\$8,693	\$253,942
Residue and Tillage Management, Mulch Till (ac.) 345		21,440	\$0	\$643,208	\$128,642	\$701,742	\$0	\$214,403	\$330,041
Residue Management, Seasonal (ac.) 344		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Terrace (ft.) 600		1,608,019	\$1,648,219	\$0	\$329,644	\$1,977,863	\$1,648,219	\$65,929	\$1,925,935
Subtotal			\$2,033,692	\$932,651	\$593,269	\$3,457,957	\$2,033,692	\$389,469	\$2,843,280
Resource Management System (RMS) Acres Treated		5680.75							
Conservation Crop Rotation (ac.) 328		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contour Farming (ac.) 330		715	\$0	\$10,720	\$2,144	\$11,696	\$0	\$3,573	\$5,501
Critical Area Planting (ac.) 342		71	\$17,016	\$0	\$3,403	\$20,419	\$17,016	\$340	\$18,449
Diversion (ft.) 362		47,340	\$40,712	\$0	\$8,142	\$48,854	\$40,712	\$1,628	\$47,572
Field Border (ft.) 386		236,698	\$5,917	\$0	\$1,183	\$7,101	\$5,917	\$237	\$6,915
Filter Strip (ac.) 393		48	\$1,668	\$0	\$334	\$2,001	\$1,668	\$100	\$2,089
Grassed Waterway (ac.) 412		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Mulching (ac.) 484		71	\$0	\$21,440	\$4,288	\$23,391	\$0	\$7,147	\$11,001
Nutrient Management (ac.) 590		5,681	\$0	\$215,925	\$43,185	\$235,575	\$0	\$71,975	\$110,795
Pasture and Hay Planting (ac.) 512		357	\$24,147	\$0	\$4,829	\$28,976	\$24,147	\$966	\$28,216
Pest Management (ac.) 595		5,681	\$0	\$363,682	\$72,736	\$396,778	\$0	\$121,227	\$186,611
Residue and Tillage Management, No-Till/Strip Till/Direct Seed (ac.) 329		5,681	\$0	\$308,976	\$61,795	\$337,094	\$0	\$102,992	\$158,541
Residue Management, Seasonal (ac.) 344		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Terrace (ft.) 600		178,669	\$183,135	\$0	\$36,627	\$219,763	\$183,135	\$7,325	\$213,993
Underground Outlet (ft.) 620		56,808	\$12,214	\$0	\$2,443	\$14,656	\$12,214	\$733	\$15,301
Upland Wildlife Habitat Management (ac.) 645		170	\$0	\$7,669	\$1,534	\$8,367	\$0	\$2,556	\$3,935
Use Exclusion (ac.) 472		170	\$426	\$0	\$85	\$511	\$426	\$26	\$534
Subtotal			\$285,235	\$928,412	\$242,729	\$1,355,183	\$285,235	\$320,826	\$809,452
TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS		27121	\$2,318,927	\$1,861,063	\$835,998	\$4,813,140	\$2,318,927	\$710,295	\$3,652,732

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

Enter Watershed Variables Below

Watershed Name:
 Watershed Code:

Landuse Type:
 Landuse Acres:
 Interest Rate:

Typical Unit Size (ac):
 Percent TA of FA:
 Cost-Share Rate:

Participation Rate (Based on Watershed Profile):
COMPARE
 Calculated Participation Rate (Based on Projected Future Conditions):

Estimated Time Frame = 5 years

Current Conditions			Projected Change			Projected Future Condition					
System	Percent	Acres	System	Percent	Acres	System	Percent	Acres			
								Total	Static	Treated	
Baseline	15%	18,225	Baseline	80%	14,580	Baseline	12%	14,580	14,580	0	
			Progressive	15%	2,734						
			RMS	5%	911						
			<i>Must Total 100%</i>						<i>100%</i>		
Current Conditions			Projected Change			Projected Future Condition					
System	Percent	Acres	System	Percent	Acres	System	Percent	Acres			
								Total	Static	Treated	
Progressive	5%	6,075	Progressive	95%	5,771	Progressive	7%	8,505	5,771	2,734	
			RMS	5%	304						
			<i>Must Total 100%</i>						<i>100%</i>		
Current Conditions			Projected Change			Projected Future Condition					
System	Percent	Acres	System	Percent	Acres	System	Percent	Acres			
								Total	Static	Treated	
RMS	1%	1,215	RMS	100%	1,215	RMS	2%	2,430	1,215	1,215	
Grand Totals											

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)

Back

Next

Code	BASE	PROG	RMS	SHORT NOTE <i>TU = Typical Unit Size</i>	Practice Name
314	0.0%	0.0%	x 100.0%	PERCENT of TU	Brush Management (ac.) 314
338	0.0%	x 100.0%	x 100.0%	PERCENT of TU	Prescribed Burning (ac.) 338
382	x 2,600	x 2,600	x 2,600	FEET per TU	Fence (ft.) 382
386	0	x 1,090	x 1,090	FEET per TU	Field Border (ft.) 386
393	0.0%	0.0%	x 5.0%	PERCENT of TU	Filter Strip (ac.) 393
472	x 100.0%	x 100.0%	x 100.0%	PERCENT of TU	Use Exclusion (ac.) 472
595	0.0%	0.0%	x 75.0%	PERCENT of TU	Pest Management (ac.) 595
603	0	0	x 1,000	FEET per TU	Herbaceous Wind Barriers (ft.) 603
643	0.0%	0.0%	x 75.0%	PERCENT of TU	Restoration and Management of Declining Habitats (ac.) 643
644	0.0%	0.0%	x 25.0%	PERCENT of TU	Wetland Wildlife Habitat Management (ac.) 644
645	0.0%	0.0%	x 75.0%	PERCENT of TU	Upland Wildlife Habitat Management (ac.) 645
646	0.0%	0.0%	x 25.0%	PERCENT of TU	Shallow Water Management for Wildlife (ac.) 646
647	0.0%	0.0%	x 75.0%	PERCENT of TU	Early Successional Habitat Development/Management (ac.) 647
648	0	0	x 2	NUMBER per TU	Wildlife Watering Facility (no.) 648
657	0.0%	0.0%	x 25.0%	PERCENT of TU	Wetland Restoration (ac.) 657
658	0.0%	0.0%	x 25.0%	PERCENT of TU	Wetland Creation (ac.) 658
659	0.0%	0.0%	x 25.0%	PERCENT of TU	Wetland Enhancement (ac.) 659
328	100.0%	100.0%	100.0%	PERCENT of TU	Conservation Crop Rotation (ac.) 328
329	100.0%	100.0%	100.0%	PERCENT of TU	Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329
344	100.0%	100.0%	100.0%	PERCENT of TU	Residue Management, Seasonal (ac.) 344
346	100.0%	100.0%	100.0%	PERCENT of TU	Residue and Tillage Management, Ridge Till (ac.) 346
430AA	500	660	660	FEET per TU	Irrigation Water Conveyance, Pipeline, Aluminum Tubing (ft.) 430AA
430DD	500	500	660	FEET per TU	Irrigation Water Conveyance, Pipeline, High-Pressure, Underground, Plastic
443	100.0%	100.0%	100.0%	PERCENT of TU	Irrigation System, Surface and Subsurface (ac.) 443

Help

WATERSHED NAME & CODE		LOWER MARAIS DES CYGNES - 10290102			LANDUSE ACRES		121,500		
LANDUSE TYPE		NON-CULTIVATED CROPLAND			TYPICAL UNIT SIZE ACRES		15		
ASSESSMENT INFORMATION					ESTIMATED PARTICIPATION		16%		
CONSERVATION SYSTEMS BY TREATMENT LEVELS		CURRENT CONDITIONS	FUTURE CONDITIONS			RESOURCE CONCERNS			
		Total Units	Existing Unchanged Units	New Treatment Units	Total Units	Soil Erosion – Streambank	Water Quantity – Excessive Runoff, Flooding, or Ponding	Fish and Wildlife – Inadequate Cover/Shelter	Fish and Wildlife – Habitat Fragmentation
Baseline System		System Rating ->			1	0	1	1	
Total Acreage at Baseline Level		18,225	14,580	0	14,580				
Fence (ft.) 382		3,159,000	2,527,200	0	2,527,200	0	0	0	-2
Use Exclusion (ac.) 472		18,225	14,580	0	14,580	2	1	3	3
Progressive System		System Rating ->			1	1	3	2	
Total Acreage at Progressive Level		6,075	5,771	2,734	8,505				
Fence (ft.) 382		1,053,000	1,474,200	0	1,474,200	0	0	0	-2
Field Border (ft.) 386		441,450	419,378	198,653	618,030	1	2	2	2
Prescribed Burning (ac.) 338		6,075	5,771	2,734	8,505	1	1	3	4
Use Exclusion (ac.) 472		6,075	8,505	0	8,505	2	1	3	3
Resource Management System (RMS)		System Rating ->			3	4	5	4	
Total Acreage at RMS Level		1,215	1,215	1,215	2,430				
Brush Management (ac.) 314		1,215	1,215	1,215	2,430	1	2	3	3
Early Successional Habitat Development/Management (ac.) 647		911	911	911	1,823	0	0	4	4
Fence (ft.) 382		210,600	421,200	0	421,200	0	0	0	-2
Field Border (ft.) 386		88,290	110,363	66,218	176,580	1	2	2	2
Filter Strip (ac.) 393		61	61	61	122	1	0	3	1
Herbaceous Wind Barriers (ft.) 603		81,000	81,000	81,000	162,000	0	0	2	2
Pest Management (ac.) 595		911	911	911	1,823	0	0	3	0
Prescribed Burning (ac.) 338		1,215	1,519	911	2,430	1	1	3	4
Restoration and Management of Declining Habitats (ac.) 643		911	911	911	1,823	0	2	4	4
Shallow Water Management for Wildlife (ac.) 646		304	304	304	608	0	3	3	2
Upland Wildlife Habitat Management (ac.) 645		911	911	911	1,823	1	1	5	4
Use Exclusion (ac.) 472		1,215	2,430	0	2,430	2	1	3	3
Wetland Creation (ac.) 658		304	304	304	608	0	3	5	4
Wetland Enhancement (ac.) 659		304	304	304	608	0	3	5	4
Wetland Restoration (ac.) 657		304	304	304	608	0	3	5	4
Wetland Wildlife Habitat Management (ac.) 644		304	304	304	608	0	1	5	4
Wildlife Watering Facility (no.) 648		162	162	162	324	4	0	4	4

WATERSHED NAME & CODE		LOWER MARAIS DES CYGNES - 10290102			LANDUSE ACRES		121,500		
LANDUSE TYPE		NON-CULTIVATED CROPLAND			TYPICAL UNIT SIZE ACRES		15		
ASSESSMENT INFORMATION					ESTIMATED PARTICIPATION		16%		
CONSERVATION SYSTEMS BY TREATMENT LEVELS		CURRENT CONDITIONS	FUTURE CONDITIONS			RESOURCE CONCERNS			
		Total Units	Existing Unchanged Units	New Treatment Units	Total Units	Soil Erosion – Streambank	Water Quantity – Excessive Runoff, Flooding, or Ponding	Fish and Wildlife – Inadequate Cover/Shelter	Fish and Wildlife – Habitat Fragmentation
Baseline System		System Rating ->			1	0	1	1	
Total Acreage at Baseline Level		18,225	14,580	0	14,580				
Fence (ft.) 382		3,159,000	2,527,200	0	2,527,200	0	0	0	-2
Use Exclusion (ac.) 472		18,225	14,580	0	14,580	2	1	3	3
Progressive System		System Rating ->			1	1	3	2	
Total Acreage at Progressive Level		6,075	5,771	2,734	8,505				
Fence (ft.) 382		1,053,000	1,474,200	0	1,474,200	0	0	0	-2
Field Border (ft.) 386		441,450	419,378	198,653	618,030	1	2	2	2
Prescribed Burning (ac.) 338		6,075	5,771	2,734	8,505	1	1	3	4
Use Exclusion (ac.) 472		6,075	8,505	0	8,505	2	1	3	3
Resource Management System (RMS)		System Rating ->			3	4	5	4	
Total Acreage at RMS Level		1,215	1,215	1,215	2,430				
Brush Management (ac.) 314		1,215	1,215	1,215	2,430	1	2	3	3
Early Successional Habitat Development/Management (ac.) 647		911	911	911	1,823	0	0	4	4
Fence (ft.) 382		210,600	421,200	0	421,200	0	0	0	-2
Field Border (ft.) 386		88,290	110,363	66,218	176,580	1	2	2	2
Filter Strip (ac.) 393		61	61	61	122	1	0	3	1
Herbaceous Wind Barriers (ft.) 603		81,000	81,000	81,000	162,000	0	0	2	2
Pest Management (ac.) 595		911	911	911	1,823	0	0	3	0
Prescribed Burning (ac.) 338		1,215	1,519	911	2,430	1	1	3	4
Restoration and Management of Declining Habitats (ac.) 643		911	911	911	1,823	0	2	4	4
Shallow Water Management for Wildlife (ac.) 646		304	304	304	608	0	3	3	2
Upland Wildlife Habitat Management (ac.) 645		911	911	911	1,823	1	1	5	4
Use Exclusion (ac.) 472		1,215	2,430	0	2,430	2	1	3	3
Wetland Creation (ac.) 658		304	304	304	608	0	3	5	4
Wetland Enhancement (ac.) 659		304	304	304	608	0	3	5	4
Wetland Restoration (ac.) 657		304	304	304	608	0	3	5	4
Wetland Wildlife Habitat Management (ac.) 644		304	304	304	608	0	1	5	4
Wildlife Watering Facility (no.) 648		162	162	162	324	4	0	4	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		2733.75							
Fence (ft.) 382		0	\$0	\$0	\$0	\$0	\$0	\$0	
Field Border (ft.) 386		198,653	\$4,966	\$0	\$993	\$5,960	\$4,966	\$199	\$5,803
Prescribed Burning (ac.) 338		2,734	\$24,112	\$0	\$4,822	\$28,934	\$24,112	\$0	\$24,112
Use Exclusion (ac.) 472		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal			\$29,078	\$0	\$5,816	\$34,894	\$29,078	\$199	\$29,915
Resource Management System (RMS) Acres Treated		1215							
Brush Management (ac.) 314		1,215	\$53,879	\$0	\$10,776	\$64,655	\$53,879	\$1,078	\$58,418
Early Successional Habitat Development/Management (ac.) 647		911	\$6,834	\$0	\$1,367	\$8,201	\$6,834	\$2,050	\$15,471
Fence (ft.) 382		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Field Border (ft.) 386		66,218	\$1,655	\$0	\$331	\$1,987	\$1,655	\$66	\$1,934
Filter Strip (ac.) 393		61	\$2,126	\$0	\$425	\$2,552	\$2,126	\$128	\$2,664
Herbaceous Wind Barriers (ft.) 603		81,000	\$405	\$0	\$81	\$486	\$405	\$162	\$1,087
Pest Management (ac.) 595		911	\$0	\$58,338	\$11,668	\$63,647	\$0	\$19,446	\$29,934
Prescribed Burning (ac.) 338		911	\$8,037	\$0	\$1,607	\$9,645	\$8,037	\$0	\$8,037
Restoration and Management of Declining Habitats (ac.) 643		911	\$11,391	\$0	\$2,278	\$13,669	\$11,391	\$456	\$13,310
Shallow Water Management for Wildlife (ac.) 646		304	\$1,519	\$0	\$304	\$1,823	\$1,519	\$0	\$1,519
Upland Wildlife Habitat Management (ac.) 645		911	\$0	\$41,006	\$8,201	\$44,738	\$0	\$13,669	\$21,041
Use Exclusion (ac.) 472		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Wetland Creation (ac.) 658		304	\$22,781	\$0	\$4,556	\$27,338	\$22,781	\$911	\$26,620
Wetland Enhancement (ac.) 659		304	\$45,563	\$0	\$9,113	\$54,675	\$45,563	\$2,734	\$57,078
Wetland Restoration (ac.) 657		304	\$45,563	\$0	\$9,113	\$54,675	\$45,563	\$911	\$49,401
Wetland Wildlife Habitat Management (ac.) 644		304	\$0	\$13,669	\$2,734	\$14,913	\$0	\$4,556	\$7,014
Wildlife Watering Facility (no.) 648		162	\$59,471	\$0	\$11,894	\$71,365	\$59,471	\$0	\$59,471
Subtotal			\$259,224	\$113,013	\$74,447	\$434,367	\$259,224	\$46,167	\$353,000
TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS		3948.75	\$288,302	\$113,013	\$80,263	\$469,260	\$288,302	\$46,365	\$382,914

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

Enter Watershed Variables Below

Watershed Name:
 Watershed Code:

Landuse Type:
 Landuse Acres:
 Interest Rate:

Typical Unit Size (ac):
 Percent TA of FA:
 Cost-Share Rate:

Participation Rate (Based on Watershed Profile):
← COMPARE →
 Calculated Participation Rate (Based on Projected Future Conditions):

Estimated Time Frame = 5 years

Current Conditions			Projected Change			Projected Future Condition				
System	Percent	Acres	System	Percent	Acres	System	Percent	Acres		
								Total	Static	Treated
Baseline	95%	39,710	Baseline	95%	37,725	Baseline	90%	37,725	37,725	0
			Progressive	4%	1,588					
			RMS	1%	397					
<i>Must Total 100%</i>			<i>100%</i>							
Current Conditions			Projected Change			Projected Future Condition				
System	Percent	Acres	System	Percent	Acres	System	Percent	Acres		
								Total	Static	Treated
Progressive	4%	1,672	Progressive	95%	1,588	Progressive	8%	3,177	1,588	1,588
			RMS	5%	84					
			<i>Must Total 100%</i>							
Current Conditions			Projected Change			Projected Future Condition				
System	Percent	Acres	System	Percent	Acres	System	Percent	Acres		
								Total	Static	Treated
RMS	1%	418	RMS	100%	418	RMS	2%	899	418	481
Grand Totals						100%		41,800	39,731	2,069

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)

Back

Next

Code	BASE	PROG	RMS	SHORT NOTE <i>TU = Typical Unit Size</i>	Practice Name
340	0.0%	0.0%	x 15.0%	PERCENT of TU	Cover Crop (ac.) 340
342	x 5.0%	x 10.0%	x 15.0%	PERCENT of TU	Critical Area Planting (ac.) 342
350	0	0	x 1	NUMBER per TU	Sediment Basin (no.) 350
356	0	0	x 200	FEET per TU	Dike (ft.) 356
362	0	0	x 300	FEET per TU	Diversion (ft.) 362
393	0.0%	x 15.0%	x 15.0%	PERCENT of TU	Filter Strip (ac.) 393
410	0	0	x 1	NUMBER per TU	Grade Stabilization Structure (no.) 410
468	0	0	x 350	FEET per TU	Lined Waterway or Outlet (ft.) 468
484	x 15.0%	x 15.0%	x 15.0%	PERCENT of TU	Mulching (ac.) 484
490	0.0%	0.0%	x 10.0%	PERCENT of TU	Forest Site Preparation (ac.) 490
560	x 300	x 300	x 300	FEET per TU	Access Road (ft.) 560
562	0.0%	0.0%	x 70.0%	PERCENT of TU	Recreation Area Improvement (ac.) 562
568	0	x 700	x 700	FEET per TU	Recreation Trail & Walkway (ft.) 568
570	0	0	x 1	NUMBER per TU	Runoff Management System (No. 570)
580	0	x 300	x 300	FEET per TU	Streambank & Shoreline Protection (ft.) 580
601	0	x 300	x 300	FEET per TU	Vegetative Barrier (ft.) 601
612	0.0%	0.0%	x 10.0%	PERCENT of TU	Tree/Shrub Establishment (ac.) 612
328	100.0%	100.0%	100.0%	PERCENT of TU	Conservation Crop Rotation (ac.) 328
329	100.0%	100.0%	100.0%	PERCENT of TU	Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329
344	100.0%	100.0%	100.0%	PERCENT of TU	Residue Management, Seasonal (ac.) 344
346	100.0%	100.0%	100.0%	PERCENT of TU	Residue and Tillage Management, Ridge Till (ac.) 346
430AA	500	660	660	FEET per TU	Irrigation Water Conveyance, Pipeline, Aluminum Tubing (ft.) 430AA
430DD	500	500	660	FEET per TU	Irrigation Water Conveyance, Pipeline, High-Pressure, Underground, Plastic
443	100.0%	100.0%	100.0%	PERCENT of TU	Irrigation System, Surface and Subsurface (ac.) 443

Help

WATERSHED NAME & CODE		LOWER MARAIS DES CYGNES - 10290102			LANDUSE ACRES		41,800	
LANDUSE TYPE		DEVELOPED LAND			TYPICAL UNIT SIZE ACRES		7	
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 Quantity – Excessive Runoff, Flooding, or Ponding	Water Quantity – Reduced Capacity of Conveyances by Sediment	Water Quality – Excessive Nutrients and Organics in
Baseline System		System Rating ->			1	4	0	1
Total Acreage at Baseline Level		39,710	37,725	0	37,725			
Access Road (ft.) 560		1,701,857	1,616,764	0	1,616,764	-1	0	0
Critical Area Planting (ac.) 342		1,986	1,886	0	1,886	0	5	1
Mulching (ac.) 484		5,957	5,659	0	5,659	2	3	-1
Progressive System		System Rating ->			1	5	1	2
Total Acreage at Progressive Level		1,672	1,588	1,588	3,177			
Access Road (ft.) 560		71,657	136,149	0	136,149	-1	0	0
Critical Area Planting (ac.) 342		167	238	79	318	0	5	1
Filter Strip (ac.) 393		251	238	238	477	0	5	3
Mulching (ac.) 484		251	477	0	477	2	3	-1
Recreation Trail and Walkway (ft.) 568		167,200	158,840	158,840	317,680	2	2	0
Streambank and Shoreline Protection (ft.) 580		71,657	68,074	68,074	136,149	0	3	0
Vegetative Barrier (ft.) 601		71,657	68,074	68,074	136,149	1	3	-1
Resource Management System (RMS)		System Rating ->			4	5	2	4
Total Acreage at RMS Level		418	418	481	899			
Access Road (ft.) 560		17,914	38,516	0	38,516	-1	0	0
Cover Crop (ac.) 340		63	63	72	135	2	3	2
Critical Area Planting (ac.) 342		63	91	44	135	0	5	1
Dike (ft.) 356		11,943	11,943	13,734	25,677	3	1	0
Diversion (ft.) 362		17,914	17,914	20,601	38,516	3	2	-1
Filter Strip (ac.) 393		63	75	60	135	0	5	3
Grade Stabilization Structure (no.) 410		60	60	69	128	0	3	0
Lined Waterway or Outlet (ft.) 468		20,900	20,900	24,035	44,935	2	2	2
Mulching (ac.) 484		63	135	0	135	2	3	-1
Recreation Area Improvement (ac.) 562		293	293	336	629	2	5	0
Recreation Trail and Walkway (ft.) 568		41,800	50,160	39,710	89,870	2	2	0
Runoff Management System (ac.) 570		60	60	69	128	2	2	0
Sediment Basin (no.) 350		60	60	69	128	2	4	-1
Streambank and Shoreline Protection (ft.) 580		17,914	21,497	17,019	38,516	0	3	0
Tree/Shrub Establishment (ac.) 612		42	42	48	90	-1	4	2
Tree/Shrub Site Preparation (ac.) 490		42	42	48	90	0	0	0
Vegetative Barrier (ft.) 601		17,914	21,497	17,019	38,516	1	3	-1

WATERSHED NAME & CODE		LOWER MARAIS DES CYGNES - 10290102						LANDUSE ACRES			41,800
LANDUSE TYPE		DEVELOPED LAND						TYPICAL UNIT SIZE ACRES			7
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		1,588									
Access Road (ft.) 560	0	X									
Critical Area Planting (ac.) 342	79	X	X								
Filter Strip (ac.) 393	238	X					X				
Mulching (ac.) 484	0	X		X							
Recreation Trail and Walkway (ft.) 568	158,840	X									
Streambank and Shoreline Protection (ft.) 580	68,074	X	X								
Vegetative Barrier (ft.) 601	68,074	X	X								
Resource Management System (RMS) Acres Treated		481									
Access Road (ft.) 560	0	X									
Cover Crop (ac.) 340	72	X	X								
Critical Area Planting (ac.) 342	44	X	X								
Dike (ft.) 356	13,734	X		X							
Diversion (ft.) 362	20,601	X	X	X							
Filter Strip (ac.) 393	60	X					X				
Grade Stabilization Structure (no.) 410	69	X	X								
Lined Waterway or Outlet (ft.) 468	24,035	X									
Mulching (ac.) 484	0	X		X							
Recreation Area Improvement (ac.) 562	336	X									
Recreation Trail and Walkway (ft.) 568	39,710	X									
Runoff Management System (ac.) 570	69	X									
Sediment Basin (no.) 350	69	X									
Streambank and Shoreline Protection (ft.) 580	17,019	X	X								
Tree/Shrub Establishment (ac.) 612	48	X	X	X							
Tree/Shrub Site Preparation (ac.) 490	48	X	X	X							
Vegetative Barrier (ft.) 601	17,019	X	X								

WATERSHED NAME & CODE		LOWER MARAIS DES CYGNES - 10290102			LANDUSE ACRES		41,800		
LANDUSE TYPE		DEVELOPED LAND			TYPICAL UNIT SIZE ACRES		7		
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 Quantity – Excessive Runoff, Flooding, or Ponding	Water Quantity – Reduced Capacity of Conveyances by Sediment Deposits	Water Quantity – Excessive Nutrients and Organics in Groundwater	Water Quality – Harmful Levels of Pesticides in Surface Water
Baseline System		System Rating ->			1	4	0	1	
Total Acreage at Baseline Level		39,710	37,725	0	37,725				
Access Road (ft.) 560		1,701,857	1,616,764	0	1,616,764	-1	0	0	
Critical Area Planting (ac.) 342		1,986	1,886	0	1,886	0	5	1	
Mulching (ac.) 484		5,957	5,659	0	5,659	2	3	-1	
Progressive System		System Rating ->			1	5	1	2	
Total Acreage at Progressive Level		1,672	1,588	1,588	3,177				
Access Road (ft.) 560		71,657	136,149	0	136,149	-1	0	0	
Critical Area Planting (ac.) 342		167	238	79	318	0	5	1	
Filter Strip (ac.) 393		251	238	238	477	0	5	3	
Mulching (ac.) 484		251	477	0	477	2	3	-1	
Recreation Trail and Walkway (ft.) 568		167,200	158,840	158,840	317,680	2	2	0	
Streambank and Shoreline Protection (ft.) 580		71,657	68,074	68,074	136,149	0	3	0	
Vegetative Barrier (ft.) 601		71,657	68,074	68,074	136,149	1	3	-1	
Resource Management System (RMS)		System Rating ->			4	5	2	4	
Total Acreage at RMS Level		418	418	481	899				
Access Road (ft.) 560		17,914	38,516	0	38,516	-1	0	0	
Cover Crop (ac.) 340		63	63	72	135	2	3	2	
Critical Area Planting (ac.) 342		63	91	44	135	0	5	1	
Dike (ft.) 356		11,943	11,943	13,734	25,677	3	1	0	
Diversion (ft.) 362		17,914	17,914	20,601	38,516	3	2	-1	
Filter Strip (ac.) 393		63	75	60	135	0	5	3	
Grade Stabilization Structure (no.) 410		60	60	69	128	0	3	0	
Lined Waterway or Outlet (ft.) 468		20,900	20,900	24,035	44,935	2	2	0	
Mulching (ac.) 484		63	135	0	135	2	3	-1	
Recreation Area Improvement (ac.) 562		293	293	336	629	2	5	0	
Recreation Trail and Walkway (ft.) 568		41,800	50,160	39,710	89,870	2	2	0	
Runoff Management System (ac.) 570		60	60	69	128	2	2	0	
Sediment Basin (no.) 350		60	60	69	128	2	4	-1	
Streambank and Shoreline Protection (ft.) 580		17,914	21,497	17,019	38,516	0	3	0	
Tree/Shrub Establishment (ac.) 612		42	42	48	90	-1	4	2	
Tree/Shrub Site Preparation (ac.) 490		42	42	48	90	0	0	0	
Vegetative Barrier (ft.) 601		17,914	21,497	17,019	38,516	1	3	-1	
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		1588.4							
Access Road (ft.) 560		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Critical Area Planting (ac.) 342		79	\$18,909	\$0	\$3,782	\$22,691	\$18,909	\$378	\$20,502
Filter Strip (ac.) 393		238	\$8,339	\$0	\$1,668	\$10,007	\$8,339	\$500	\$10,447
Mulching (ac.) 484		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Recreation Trail and Walkway (ft.) 568		158,840	\$1,588,400	\$0	\$317,680	\$1,906,080	\$1,588,400	\$31,768	\$1,722,218
Streambank and Shoreline Protection (ft.) 580		68,074	\$371,345	\$0	\$74,269	\$445,614	\$371,345	\$14,854	\$433,915
Vegetative Barrier (ft.) 601		68,074	\$1,021	\$0	\$204	\$1,225	\$1,021	\$61	\$1,279
Subtotal			\$1,988,015	\$0	\$397,603	\$2,385,617	\$1,988,015	\$47,562	\$2,188,361
Resource Management System (RMS) Acres Treated		480.7							
Access Road (ft.) 560		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cover Crop (ac.) 340		72	\$0	\$10,329	\$2,066	\$11,269	\$0	\$3,443	\$5,300
Critical Area Planting (ac.) 342		44	\$10,450	\$0	\$2,090	\$12,540	\$10,450	\$209	\$11,330
Dike (ft.) 356		13,734	\$17,168	\$0	\$3,434	\$20,601	\$17,168	\$687	\$20,061
Diversion (ft.) 362		20,601	\$17,717	\$0	\$3,543	\$21,261	\$17,717	\$709	\$20,702
Filter Strip (ac.) 393		60	\$2,085	\$0	\$417	\$2,502	\$2,085	\$125	\$2,612
Grade Stabilization Structure (no.) 410		69	\$349,532	\$0	\$69,906	\$419,439	\$349,532	\$20,972	\$437,874
Lined Waterway or Outlet (ft.) 468		24,035	\$54,920	\$0	\$10,984	\$65,904	\$54,920	\$2,197	\$64,174
Mulching (ac.) 484		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Recreation Area Improvement (ac.) 562		336	\$84,123	\$0	\$16,825	\$100,947	\$84,123	\$8,412	\$119,558
Recreation Trail and Walkway (ft.) 568		39,710	\$397,100	\$0	\$79,420	\$476,520	\$397,100	\$7,942	\$430,555
Runoff Management System (ac.) 570		69	\$85,839	\$0	\$17,168	\$103,007	\$85,839	\$0	\$85,839
Sediment Basin (no.) 350		69	\$85,839	\$0	\$17,168	\$103,007	\$85,839	\$3,434	\$100,303
Streambank and Shoreline Protection (ft.) 580		17,019	\$92,836	\$0	\$18,567	\$111,404	\$92,836	\$3,713	\$108,479
Tree/Shrub Establishment (ac.) 612		48	\$7,835	\$0	\$1,567	\$9,402	\$7,835	\$0	\$7,835
Tree/Shrub Site Preparation (ac.) 490		48	\$0	\$6,459	\$1,292	\$7,047	\$0	\$2,153	\$3,314
Vegetative Barrier (ft.) 601		17,019	\$255	\$0	\$51	\$306	\$255	\$15	\$320
Subtotal			\$1,205,700	\$16,788	\$244,498	\$1,465,156	\$1,205,700	\$54,011	\$1,418,255
TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS		2069.1	\$3,193,715	\$16,788	\$642,101	\$3,850,774	\$3,193,715	\$101,572	\$3,606,617

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

WATERSHED NAME & CODE		LOWER MARAIS DES CYGNES - 10290102			LANDUSE ACRES		292,700		
LANDUSE TYPE		PASTURELAND			TYPICAL UNIT SIZE ACRES		80		
ASSESSMENT INFORMATION					ESTIMATED PARTICIPATION		9%		
		CURRENT CONDITIONS	FUTURE CONDITIONS		RESOURCE CONCERNS				
CONSERVATION SYSTEMS BY TREATMENT LEVELS		Total Units	Existing Unchanged Units	New Treatment Units	Total Units	Soil Erosion – Streambank	Water Quality – Excessive Nutrients and Organics in	Plant Condition – Productivity, Health and Vigor	Plant Condition – Forage Quality and Palatability
Baseline System		System Rating ->				2	2	4	4
Total Acreage at Baseline Level		234,160	210,744	0	210,744				
Fence (ft.) 382		7,727,280	6,954,552	0	6,954,552	0	0	0	0
Forage Harvest Management (ac.) 511		117,080	105,372	0	105,372	0	2	4	4
Pasture and Hay Planting (ac.) 512		234,160	210,744	0	210,744	0	2	5	5
Pond (no.) 378		2,927	2,634	0	2,634	1	2	2	0
Watering Facility (no.) 614		2,927	2,634	0	2,634	4	0	2	0
Progressive System		System Rating ->				3	4	5	5
Total Acreage at Progressive Level		43,905	41,710	18,733	60,443				
Brush Management (ac.) 314		6,586	6,256	2,810	9,066	1	0	3	4
Critical Area Planting (ac.) 342		1,756	1,668	749	2,418	4	2	5	0
Fence (ft.) 382		3,622,163	4,059,237	927,274	4,986,510	0	0	0	0
Forage Harvest Management (ac.) 511		17,562	24,177	0	24,177	0	2	4	4
Nutrient Management (ac.) 590		43,905	41,710	18,733	60,443	0	5	3	4
Pasture and Hay Planting (ac.) 512		43,905	60,443	0	60,443	0	2	5	5
Pond (no.) 378		1,098	1,277	234	1,511	1	2	2	0
Use Exclusion (ac.) 472		1,756	1,668	749	2,418	2	2	4	4
Watering Facility (no.) 614		1,098	1,277	234	1,511	4	0	2	0
Well Decommissioning (no.) 351		549	521	234	756	0	0	0	0
Resource Management System (RMS)		System Rating ->				4	4	5	5
Total Acreage at RMS Level		14,635	14,635	6,878	21,513				
Brush Management (ac.) 314		1,464	1,683	468	2,151	1	0	3	4
Critical Area Planting (ac.) 342		585	673	187	861	4	2	5	0
Fence (ft.) 382		1,829,375	2,165,029	524,153	2,689,181	0	0	0	0
Forage Harvest Management (ac.) 511		2,927	4,303	0	4,303	0	2	4	4
Heavy Use Area Protection (ac.) 561		146	146	69	215	3	1	3	0
Nutrient Management (ac.) 590		14,635	16,830	4,683	21,513	0	5	3	4
Pasture and Hay Planting (ac.) 512		14,635	21,513	0	21,513	0	2	5	5
Pest Management (ac.) 595		14,635	14,635	6,878	21,513	0	0	5	4
Pipeline (ft.) 516		484,784	484,784	227,849	712,633	0	0	2	0
Pond (no.) 378		366	479	59	538	1	2	2	0
Prescribed Grazing (ac.) 528		14,635	14,635	6,878	21,513	3	1	5	4
Stream Crossing (no.) 578		12,806	12,806	6,019	18,824	0	0	0	0
Streambank and Shoreline Protection (ft.) 580		241,478	241,478	113,494	354,972	4	1	4	0
Upland Wildlife Habitat Management (ac.) 645		732	732	344	1,076	1	0	4	4
Use Exclusion (ac.) 472		585	673	187	861	2	2	4	4
Watering Facility (no.) 614		732	845	231	1,076	4	0	2	0
Well Decommissioning (no.) 351		183	210	59	269	0	0	0	0

WATERSHED NAME & CODE		LOWER MARAIS DES CYGNES - 10290102				LANDUSE ACRES		292,700	
LANDUSE TYPE		PASTURELAND				TYPICAL UNIT SIZE ACRES		80	
CONSERVATION INVESTMENT INFORMATION						ESTIMATED PARTICIPATION		9%	
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		18,733							
Brush Management (ac.) 314	2,810	\$124,606	\$0	\$24,921	\$149,527	\$124,606	\$2,492	\$135,104	
Critical Area Planting (ac.) 342	749	\$178,404	\$0	\$35,681	\$214,084	\$178,404	\$3,568	\$193,434	
Fence (ft.) 382	927,274	\$676,910	\$0	\$135,382	\$812,292	\$676,910	\$67,691	\$962,049	
Forage Harvest Management (ac.) 511	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Nutrient Management (ac.) 590	18,733	\$0	\$712,034	\$142,407	\$776,832	\$0	\$237,345	\$365,357	
Pasture and Hay Planting (ac.) 512	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Pond (no.) 378	234	\$702,480	\$0	\$140,496	\$842,976	\$702,480	\$28,099	\$820,844	
Use Exclusion (ac.) 472	749	\$1,873	\$0	\$375	\$2,248	\$1,873	\$112	\$2,347	
Watering Facility (no.) 614	234	\$106,352	\$0	\$21,270	\$127,622	\$106,352	\$4,254	\$124,272	
Well Decommissioning (no.) 351	234	\$65,425	\$0	\$13,085	\$78,511	\$65,425	\$0	\$65,425	
Subtotal		\$1,856,050	\$712,034	\$513,617	\$3,004,092	\$1,856,050	\$343,561	\$2,668,831	
Resource Management System (RMS) Acres Treated		6,878							
Brush Management (ac.) 314	468	\$20,768	\$0	\$4,154	\$24,921	\$20,768	\$415	\$22,517	
Critical Area Planting (ac.) 342	187	\$44,601	\$0	\$8,920	\$53,521	\$44,601	\$892	\$48,358	
Fence (ft.) 382	524,153	\$382,631	\$0	\$76,526	\$459,157	\$382,631	\$38,263	\$543,810	
Forage Harvest Management (ac.) 511	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Heavy Use Area Protection (ac.) 561	69	\$1,796,087	\$0	\$359,217	\$2,155,305	\$1,796,087	\$179,609	\$2,552,664	
Nutrient Management (ac.) 590	4,683	\$0	\$178,008	\$35,602	\$194,208	\$0	\$59,336	\$91,339	
Pasture and Hay Planting (ac.) 512	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Pest Management (ac.) 595	6,878	\$0	\$440,358	\$88,072	\$480,433	\$0	\$146,786	\$225,955	
Pipeline (ft.) 516	227,849	\$244,937	\$0	\$48,987	\$293,925	\$244,937	\$0	\$244,937	
Pond (no.) 378	59	\$175,620	\$0	\$35,124	\$210,744	\$175,620	\$7,025	\$205,211	
Prescribed Grazing (ac.) 528	6,878	\$30,265	\$0	\$6,053	\$36,318	\$30,265	\$0	\$30,265	
Stream Crossing (no.) 578	6,019	\$5,626,439	\$0	\$1,125,288	\$6,751,727	\$5,626,439	\$112,529	\$6,100,451	
Streambank and Shoreline Protection (ft.) 580	113,494	\$619,112	\$0	\$123,822	\$742,935	\$619,112	\$24,764	\$723,429	
Upland Wildlife Habitat Management (ac.) 645	344	\$0	\$15,477	\$3,095	\$16,885	\$0	\$5,159	\$7,941	
Use Exclusion (ac.) 472	187	\$468	\$0	\$94	\$562	\$468	\$28	\$587	
Watering Facility (no.) 614	231	\$104,690	\$0	\$20,938	\$125,628	\$104,690	\$4,188	\$122,330	
Well Decommissioning (no.) 351	59	\$16,356	\$0	\$3,271	\$19,628	\$16,356	\$0	\$16,356	
Subtotal		\$9,061,975	\$633,843	\$1,939,164	\$11,565,896	\$9,061,975	\$578,994	\$10,936,152	
TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS		3278.24	\$10,918,025	\$1,345,877	\$2,452,780	\$14,569,988	\$10,918,025	\$922,556	\$13,604,983

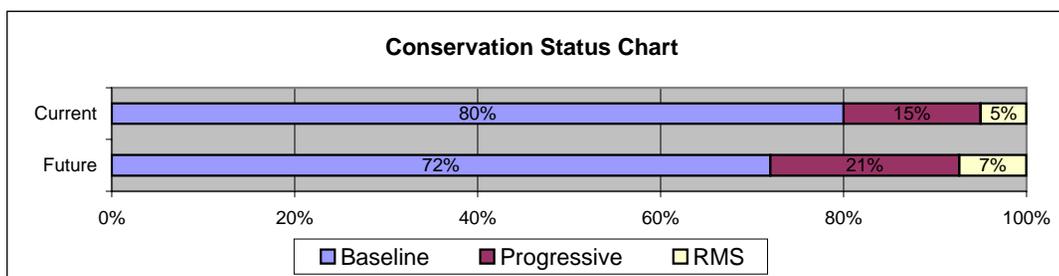


Chart Refers To	
Landuse Type	PASTURELAND
Estimated Participation Rate	9%

Average PV Costs per Ac		
System	Federal	Private
Prog	\$160	\$142
RMS	\$1,681	\$1,590

Estimated FTE per Year	4.9
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Enter Watershed Variables Below

Watershed Name	<input type="text" value="Lower Marais des Cygnes"/>	Watershed Code	<input type="text" value="10290102"/>	<input type="button" value="Help"/>	
Landuse Type	<input type="text" value="Forestland"/>	Landuse Acres	<input type="text" value="130,100"/>	Interest Rate	<input type="text" value="6%"/>
Typical Unit Size (ac)	<input type="text" value="20"/>	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 <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		
								Total	Static	Treated
Baseline	90%	117,090	Baseline	95%	111,236	Baseline	86%	111,236	111,236	0
			Progressive	4%	4,684					
			RMS	1%	1,171					
			<i>Must Total 100%</i>		<i>100%</i>					
Current Conditions			Projected Change			Projected Future Condition				
System	Percent	Acres	System	Percent	Acres	System	Percent	Acres		
								Total	Static	Treated
Progressive	9%	11,709	Progressive	98%	11,475	Progressive	12%	16,158	11,475	4,684
			RMS	2%	234					
			<i>Must Total 100%</i>		<i>100%</i>					
Current Conditions			Projected Change			Projected Future Condition				
System	Percent	Acres	System	Percent	Acres	System	Percent	Acres		
								Total	Static	Treated
RMS	1%	1,301	RMS	100%	1,301	RMS	2%	2,706	1,301	1,405
Grand Totals	100%	130,100					100%	130,100	124,011	6,089

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)

Back

Next

Code	BASE	PROG	RMS	SHORT NOTE <i>TU = Typical Unit Size</i>	Practice Name
314	0.0%	x 25.0%	x 25.0%	PERCENT of TU	Brush Management (ac.) 314
382	x 1,300	x 1,300	x 1,300	FEET per TU	Fence (ft.) 382
391	0.0%	x 15.0%	x 15.0%	PERCENT of TU	Riparian Forest Buffer (ac.) 391
409	0.0%	0.0%	x 100.0%	PERCENT of TU	Prescribed Forestry (ac.) 409
472	x 100.0%	x 100.0%	x 100.0%	PERCENT of TU	Use Exclusion (ac.) 472
490	0.0%	x 10.0%	x 10.0%	PERCENT of TU	Forest Site Preparation (ac.) 490
560	x 750	x 750	x 750	FEET per TU	Access Road (ft.) 560
578	0	0	x 70	FEET per TU	Stream Crossing 578
612	0.0%	x 10.0%	x 10.0%	PERCENT of TU	Tree/Shrub Establishment (ac.) 612
643	0.0%	0.0%	x 10.0%	PERCENT of TU	Restoration and Management of Declining Habitats (ac.) 643
644	0.0%	0.0%	x 5.0%	PERCENT of TU	Wetland Wildlife Habitat Management (ac.) 644
645	0.0%	0.0%	x 100.0%	PERCENT of TU	Upland Wildlife Habitat Management (ac.) 645
655	0.0%	x 1.0%	x 1.0%	PERCENT of TU	Forest Trails & Landings (ac.) 655
657	0.0%	0.0%	x 5.0%	PERCENT of TU	Wetland Restoration (ac.) 657
659	0.0%	0.0%	x 5.0%	PERCENT of TU	Wetland Enhancement (ac.) 659
660	0.0%	0.0%	x 100.0%	PERCENT of TU	Tree/Shrub Pruning (ac.) 660
666	0.0%	x 100.0%	x 100.0%	PERCENT of TU	Forest Stand Improvement (ac.) 666
328	100.0%	100.0%	100.0%	PERCENT of TU	Conservation Crop Rotation (ac.) 328
329	100.0%	100.0%	100.0%	PERCENT of TU	Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329
344	100.0%	100.0%	100.0%	PERCENT of TU	Residue Management, Seasonal (ac.) 344
346	100.0%	100.0%	100.0%	PERCENT of TU	Residue and Tillage Management, Ridge Till (ac.) 346
430AA	500	660	660	FEET per TU	Irrigation Water Conveyance, Pipeline, Aluminum Tubing (ft.) 430AA
430DD	500	500	660	FEET per TU	Irrigation Water Conveyance, Pipeline, High-Pressure, Underground, Plastic
443	100.0%	100.0%	100.0%	PERCENT of TU	Irrigation System, Surface and Subsurface (ac.) 443

Help

WATERSHED NAME & CODE		LOWER MARAIS DES CYGNES - 10290102			LANDUSE ACRES		130,100		
LANDUSE TYPE		FORESTLAND			TYPICAL UNIT SIZE ACRES		20		
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	Soil Erosion – Streambank	Water Quantity – Excessive Runoff, Flooding, or Ponding	Water Quality – Harmful Temperatures of Surface Water	Plant Condition – Productivity, Health and Vigor
Baseline System		System Rating ->			1	0	0	2	
Total Acreage at Baseline Level		117,090	111,236	0	111,236				
Access Road (ft.) 560	4,390,875	4,171,331	0	4,171,331	0	-1	0	0	
Fence (ft.) 382	7,610,850	7,230,308	0	7,230,308	0	0	0	0	
Use Exclusion (ac.) 472	117,090	111,236	0	111,236	2	1	0	4	
Progressive System		System Rating ->			2	2	2	5	
Total Acreage at Progressive Level		11,709	11,475	4,684	16,158				
Access Road (ft.) 560	439,088	605,941	0	605,941	0	-1	0	0	
Brush Management (ac.) 314	2,927	2,869	1,171	4,040	1	2	-1	3	
Fence (ft.) 382	761,085	1,050,297	0	1,050,297	0	0	0	0	
Forest Stand Improvement (ac.) 666	11,709	11,475	4,684	16,158	0	3	0	5	
Forest Trails and Landings (ac.) 655	117	115	47	162	0	0	0	2	
Riparian Forest Buffer (ac.) 391	1,756	1,721	703	2,424	4	3	3	4	
Tree/Shrub Establishment (ac.) 612	1,171	1,147	468	1,616	0	-1	2	5	
Tree/Shrub Site Preparation (ac.) 490	1,171	1,147	468	1,616	0	0	0	5	
Use Exclusion (ac.) 472	11,709	16,158	0	16,158	2	1	0	4	
Resource Management System (RMS)		System Rating ->			4	4	3	5	
Total Acreage at RMS Level		1,301	1,301	1,405	2,706				
Access Road (ft.) 560	48,788	101,478	0	101,478	0	-1	0	0	
Brush Management (ac.) 314	325	384	293	677	1	2	-1	3	
Fence (ft.) 382	84,565	175,895	0	175,895	0	0	0	0	
Forest Stand Improvement (ac.) 666	1,301	1,535	1,171	2,706	0	3	0	5	
Forest Trails and Landings (ac.) 655	13	15	12	27	0	0	0	2	
Prescribed Forestry (ac.) 409	1,301	1,301	1,405	2,706	5	2	5	5	
Restoration and Management of Declining Habitats (ac.) 643	130	130	141	271	0	2	2	4	
Riparian Forest Buffer (ac.) 391	195	230	176	406	4	3	3	4	
Stream Crossing (no.) 578	4,554	4,554	4,918	9,471	0	0	0	0	
Tree/Shrub Establishment (ac.) 612	130	154	117	271	0	-1	2	5	
Tree/Shrub Pruning (ac.) 660	1,301	1,301	1,405	2,706	0	0	-1	5	
Tree/Shrub Site Preparation (ac.) 490	130	154	117	271	0	0	0	5	
Upland Wildlife Habitat Management (ac.) 645	1,301	1,301	1,405	2,706	1	1	0	4	
Use Exclusion (ac.) 472	1,301	2,706	0	2,706	2	1	0	4	
Wetland Enhancement (ac.) 659	65	65	70	135	0	3	0	4	
Wetland Restoration (ac.) 657	65	65	70	135	0	3	0	4	
Wetland Wildlife Habitat Management (ac.) 644	65	65	70	135	0	1	1	4	

WATERSHED NAME & CODE		LOWER MARAIS DES CYGNES - 10290102				LANDUSE ACRES		130,100	
LANDUSE TYPE		FORESTLAND				TYPICAL UNIT SIZE ACRES		20	
CONSERVATION INVESTMENT INFORMATION						ESTIMATED PARTICIPATION		5%	
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		4,684							
Access Road (ft.) 560	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Brush Management (ac.) 314	1,171	\$51,924	\$0	\$10,385	\$62,308	\$51,924	\$1,038	\$56,298	
Fence (ft.) 382	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Forest Stand Improvement (ac.) 666	4,684	\$209,661	\$0	\$41,932	\$251,594	\$209,661	\$4,193	\$227,325	
Forest Trails and Landings (ac.) 655	47	\$27,903	\$0	\$5,581	\$33,484	\$27,903	\$1,116	\$32,605	
Riparian Forest Buffer (ac.) 391	703	\$114,514	\$0	\$22,903	\$137,417	\$114,514	\$2,290	\$124,162	
Tree/Shrub Establishment (ac.) 612	468	\$76,343	\$0	\$15,269	\$91,611	\$76,343	\$0	\$76,343	
Tree/Shrub Site Preparation (ac.) 490	468	\$0	\$62,934	\$12,587	\$68,661	\$0	\$20,978	\$32,292	
Use Exclusion (ac.) 472	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Subtotal		\$480,345	\$62,934	\$108,656	\$645,075	\$480,345	\$29,616	\$549,024	
Resource Management System (RMS) Acres Treated		1,405							
Access Road (ft.) 560	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Brush Management (ac.) 314	293	\$12,981	\$0	\$2,596	\$15,577	\$12,981	\$260	\$14,074	
Fence (ft.) 382	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Forest Stand Improvement (ac.) 666	1,171	\$52,415	\$0	\$10,483	\$62,898	\$52,415	\$1,048	\$56,831	
Forest Trails and Landings (ac.) 655	12	\$6,976	\$0	\$1,395	\$8,371	\$6,976	\$279	\$8,151	
Prescribed Forestry (ac.) 409	1,405	\$35,127	\$0	\$7,025	\$42,152	\$35,127	\$0	\$35,127	
Restoration and Management of Declining Habitats (ac.) 643	141	\$1,756	\$0	\$351	\$2,108	\$1,756	\$70	\$2,052	
Riparian Forest Buffer (ac.) 391	176	\$28,629	\$0	\$5,726	\$34,354	\$28,629	\$573	\$31,040	
Stream Crossing (no.) 578	4,918	\$4,597,313	\$0	\$919,463	\$5,516,775	\$4,597,313	\$91,946	\$4,984,624	
Tree/Shrub Establishment (ac.) 612	117	\$19,086	\$0	\$3,817	\$22,903	\$19,086	\$0	\$19,086	
Tree/Shrub Pruning (ac.) 660	1,405	\$158,072	\$0	\$31,614	\$189,686	\$158,072	\$6,323	\$184,706	
Tree/Shrub Site Preparation (ac.) 490	117	\$0	\$15,733	\$3,147	\$17,165	\$0	\$5,244	\$8,073	
Upland Wildlife Habitat Management (ac.) 645	1,405	\$0	\$63,229	\$12,646	\$68,983	\$0	\$21,076	\$32,444	
Use Exclusion (ac.) 472	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Wetland Enhancement (ac.) 659	70	\$10,538	\$0	\$2,108	\$12,646	\$10,538	\$632	\$13,202	
Wetland Restoration (ac.) 657	70	\$10,538	\$0	\$2,108	\$12,646	\$10,538	\$211	\$11,426	
Wetland Wildlife Habitat Management (ac.) 644	70	\$0	\$3,161	\$632	\$3,449	\$0	\$1,054	\$1,622	
Subtotal		\$4,933,430	\$82,123	\$1,003,111	\$6,009,713	\$4,933,430	\$128,716	\$5,402,458	
TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS		0	\$5,413,775	\$145,057	\$1,111,766	\$6,654,788	\$5,413,775	\$158,332	\$5,951,482

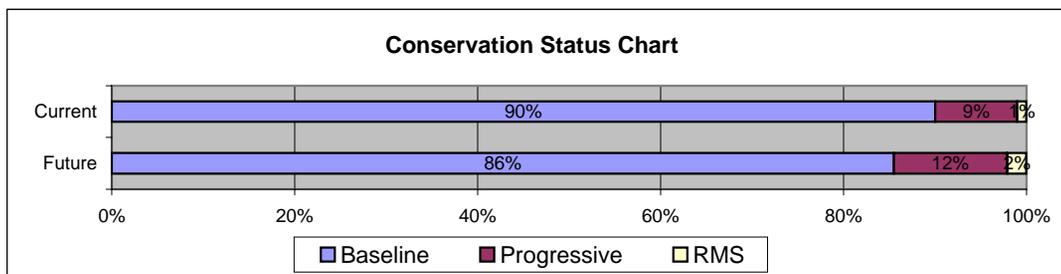


Chart Refers To	
Landuse Type	FORESTLAND
Estimated Participation Rate	5%

Average PV Costs per Ac		
System	Federal	Private
Prog	\$138	\$117
RMS	\$4,277	\$3,845

Estimated FTE per Year	2.2
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WATERSHED NAME & CODE		LOWER MARAIS DES CYGNES - 10290102						LANDUSE ACRES			130,100
LANDUSE TYPE		FORESTLAND						TYPICAL UNIT SIZE ACRES			20
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		4,684									
Access Road (ft.) 560	0	X									
Brush Management (ac.) 314	1,171	X	X								
Fence (ft.) 382	0	X	X								
Forest Stand Improvement (ac.) 666	4,684	X	X								
Forest Trails and Landings (ac.) 655	47	X									
Riparian Forest Buffer (ac.) 391	703	X	X								
Tree/Shrub Establishment (ac.) 612	468	X	X	X							
Tree/Shrub Site Preparation (ac.) 490	468	X	X	X							
Use Exclusion (ac.) 472	0	X	X	X							
Resource Management System (RMS) Acres Treated		1,405									
Access Road (ft.) 560	0	X									
Brush Management (ac.) 314	293	X	X								
Fence (ft.) 382	0	X	X								
Forest Stand Improvement (ac.) 666	1,171	X	X								
Forest Trails and Landings (ac.) 655	12	X									
Prescribed Forestry (ac.) 409	1,405	X	X								
Restoration and Management of Declining Habitats (ac.) 643	141	X	X	X							
Riparian Forest Buffer (ac.) 391	176	X	X								
Stream Crossing (no.) 578	4,918	X	X								
Tree/Shrub Establishment (ac.) 612	117	X	X	X							
Tree/Shrub Pruning (ac.) 660	1,405	X									
Tree/Shrub Site Preparation (ac.) 490	117	X	X	X							
Upland Wildlife Habitat Management (ac.) 645	1,405	X	X								
Use Exclusion (ac.) 472	0	X	X	X							
Wetland Enhancement (ac.) 659	70	X		X							
Wetland Restoration (ac.) 657	70	X	X	X							
Wetland Wildlife Habitat Management (ac.) 644	70	X	X	X							

WATERSHED NAME & CODE		LOWER MARAIS DES CYGNES - 10290102				LANDUSE ACRES		130,100	
LANDUSE TYPE		FORESTLAND				TYPICAL UNIT SIZE ACRES		20	
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	Soil Erosion – Streambank	Water Quantity – Excessive Runoff, Flooding, or Ponding	Water Quality – Harmful Temperatures of Surface Water	Plant Condition – Productivity, Health and Vigor
Baseline System		System Rating ->				1	0	0	2
Total Acreage at Baseline Level		117,090	111,236	0	111,236				
Access Road (ft.) 560		4,390,875	4,171,331	0	4,171,331	0	-1	0	0
Fence (ft.) 382		7,610,850	7,230,308	0	7,230,308	0	0	0	0
Use Exclusion (ac.) 472		117,090	111,236	0	111,236	2	1	0	4
Progressive System		System Rating ->				2	2	2	5
Total Acreage at Progressive Level		11,709	11,475	4,684	16,158				
Access Road (ft.) 560		439,088	605,941	0	605,941	0	-1	0	0
Brush Management (ac.) 314		2,927	2,869	1,171	4,040	1	2	-1	3
Fence (ft.) 382		761,085	1,050,297	0	1,050,297	0	0	0	0
Forest Stand Improvement (ac.) 666		11,709	11,475	4,684	16,158	0	3	0	5
Forest Trails and Landings (ac.) 655		117	115	47	162	0	0	0	2
Riparian Forest Buffer (ac.) 391		1,756	1,721	703	2,424	4	3	3	4
Tree/Shrub Establishment (ac.) 612		1,171	1,147	468	1,616	0	-1	2	5
Tree/Shrub Site Preparation (ac.) 490		1,171	1,147	468	1,616	0	0	0	5
Use Exclusion (ac.) 472		11,709	16,158	0	16,158	2	1	0	4
Resource Management System (RMS)		System Rating ->				4	4	3	5
Total Acreage at RMS Level		1,301	1,301	1,405	2,706				
Access Road (ft.) 560		48,788	101,478	0	101,478	0	-1	0	0
Brush Management (ac.) 314		325	384	293	677	1	2	-1	3
Fence (ft.) 382		84,565	175,895	0	175,895	0	0	0	0
Forest Stand Improvement (ac.) 666		1,301	1,535	1,171	2,706	0	3	0	5
Forest Trails and Landings (ac.) 655		13	15	12	27	0	0	0	2
Prescribed Forestry (ac.) 409		1,301	1,301	1,405	2,706	5	2	5	5
Restoration and Management of Declining Habitats (ac.) 643		130	130	141	271	0	2	2	4
Riparian Forest Buffer (ac.) 391		195	230	176	406	4	3	3	4
Stream Crossing (no.) 578		4,554	4,554	4,918	9,471	0	0	0	0
Tree/Shrub Establishment (ac.) 612		130	154	117	271	0	-1	2	5
Tree/Shrub Pruning (ac.) 660		1,301	1,301	1,405	2,706	0	0	-1	5
Tree/Shrub Site Preparation (ac.) 490		130	154	117	271	0	0	0	5
Upland Wildlife Habitat Management (ac.) 645		1,301	1,301	1,405	2,706	1	1	0	4
Use Exclusion (ac.) 472		1,301	2,706	0	2,706	2	1	0	4
Wetland Enhancement (ac.) 659		65	65	70	135	0	3	0	4
Wetland Restoration (ac.) 657		65	65	70	135	0	3	0	4
Wetland Wildlife Habitat Management (ac.) 644		65	65	70	135	0	1	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		4683.6							
Access Road (ft.) 560		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Brush Management (ac.) 314		1,171	\$51,924	\$0	\$10,385	\$62,308	\$51,924	\$1,038	\$56,298
Fence (ft.) 382		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Forest Stand Improvement (ac.) 666		4,684	\$209,661	\$0	\$41,932	\$251,594	\$209,661	\$4,193	\$227,325
Forest Trails and Landings (ac.) 655		47	\$27,903	\$0	\$5,581	\$33,484	\$27,903	\$1,116	\$32,605
Riparian Forest Buffer (ac.) 391		703	\$114,514	\$0	\$22,903	\$137,417	\$114,514	\$2,290	\$124,162
Tree/Shrub Establishment (ac.) 612		468	\$76,343	\$0	\$15,269	\$91,611	\$76,343	\$0	\$76,343
Tree/Shrub Site Preparation (ac.) 490		468	\$0	\$62,934	\$12,587	\$68,661	\$0	\$20,978	\$32,292
Use Exclusion (ac.) 472		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal			\$480,345	\$62,934	\$108,656	\$645,075	\$480,345	\$29,616	\$549,024
Resource Management System (RMS) Acres Treated		1405.08							
Access Road (ft.) 560		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Brush Management (ac.) 314		293	\$12,981	\$0	\$2,596	\$15,577	\$12,981	\$260	\$14,074
Fence (ft.) 382		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Forest Stand Improvement (ac.) 666		1,171	\$52,415	\$0	\$10,483	\$62,898	\$52,415	\$1,048	\$56,831
Forest Trails and Landings (ac.) 655		12	\$6,976	\$0	\$1,395	\$8,371	\$6,976	\$279	\$8,151
Prescribed Forestry (ac.) 409		1,405	\$35,127	\$0	\$7,025	\$42,152	\$35,127	\$0	\$35,127
Restoration and Management of Declining Habitats (ac.) 643		141	\$1,756	\$0	\$351	\$2,108	\$1,756	\$70	\$2,052
Riparian Forest Buffer (ac.) 391		176	\$28,629	\$0	\$5,726	\$34,354	\$28,629	\$573	\$31,040
Stream Crossing (no.) 578		4,918	\$4,597,313	\$0	\$919,463	\$5,516,775	\$4,597,313	\$91,946	\$4,984,624
Tree/Shrub Establishment (ac.) 612		117	\$19,086	\$0	\$3,817	\$22,903	\$19,086	\$0	\$19,086
Tree/Shrub Pruning (ac.) 660		1,405	\$158,072	\$0	\$31,614	\$189,686	\$158,072	\$6,323	\$184,706
Tree/Shrub Site Preparation (ac.) 490		117	\$0	\$15,733	\$3,147	\$17,165	\$0	\$5,244	\$8,073
Upland Wildlife Habitat Management (ac.) 645		1,405	\$0	\$63,229	\$12,646	\$68,983	\$0	\$21,076	\$32,444
Use Exclusion (ac.) 472		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Wetland Enhancement (ac.) 659		70	\$10,538	\$0	\$2,108	\$12,646	\$10,538	\$632	\$13,202
Wetland Restoration (ac.) 657		70	\$10,538	\$0	\$2,108	\$12,646	\$10,538	\$211	\$11,426
Wetland Wildlife Habitat Management (ac.) 644		70	\$0	\$3,161	\$632	\$3,449	\$0	\$1,054	\$1,622
Subtotal			\$4,933,430	\$82,123	\$1,003,111	\$6,009,713	\$4,933,430	\$128,716	\$5,402,458
TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS		6088.68	\$5,413,775	\$145,057	\$1,111,766	\$6,654,788	\$5,413,775	\$158,332	\$5,951,482

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