

## **Assessment Matrix**

The assessment matrix summarizes, in tabular form, conservation opportunities and related installation and maintenance cost, and qualitative effects on primary resource concerns. The future represents five years into the future.

WATERSHED NAME & CODE		102 - 10240013			LANDUSE ACRES		125,469	
LANDUSE TYPE		ROW CROP			TYPICAL UNIT SIZE ACRES		249	
ASSESSMENT INFORMATION					ESTIMATED PARTICIPATION		13%	
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 – Ephemeral Gully	Soil Condition – Organic Matter Depletion	Water Quality – Excessive Nutrients and Organics in Surface Water
<b>Baseline System</b>	<b>System Rating -&gt;</b>				<b>4</b>	<b>4</b>	<b>4</b>	<b>3</b>
<b>Total Acreage at Baseline Level</b>	<b>69,008</b>	<b>55,206</b>	<b>0</b>	<b>55,206</b>				
Conservation Cover (ac.) 327	18,632	14,906	0	14,906	5	2	4	2
Contour Farming (ac.) 330	32,434	25,947	0	25,947	3	1	2	3
Field Border (ft.) 386	1,281,220	1,024,976	0	1,024,976	4	3	4	2
Grassed Waterway (ac.) 412	3,450	2,760	0	2,760	0	5	3	2
Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329	10,351	8,281	0	8,281	4	2	2	2
<b>Progressive System</b>	<b>System Rating -&gt;</b>				<b>5</b>	<b>5</b>	<b>4</b>	<b>5</b>
<b>Total Acreage at Progressive Level</b>	<b>50,188</b>	<b>48,682</b>	<b>13,112</b>	<b>61,793</b>				
Conservation Cover (ac.) 327	16,562	19,605	787	20,392	5	2	4	2
Contour Buffer Strips (ac.) 332	100	97	26	124	4	1	2	3
Contour Farming (ac.) 330	45,671	50,463	5,769	56,232	3	1	2	3
Field Border (ft.) 386	918,494	1,130,895	0	1,130,895	4	3	4	2
Grassed Waterway (ac.) 412	5,019	5,524	656	6,179	0	5	3	2
Nutrient Management (ac.) 590	4,969	4,820	1,298	6,118	0	0	2	5
Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329	46,173	46,754	10,096	56,850	4	2	2	2
Terrace (ft.) 600	1,310,118	1,270,815	342,268	1,613,083	3	5	1	2
<b>Resource Management System (RMS)</b>	<b>System Rating -&gt;</b>				<b>5</b>	<b>5</b>	<b>4</b>	<b>4</b>
<b>Total Acreage at RMS Level</b>	<b>6,273</b>	<b>6,273</b>	<b>2,196</b>	<b>8,469</b>				
Conservation Cover (ac.) 327	2,133	2,816	63	2,880	5	2	4	2
Contour Farming (ac.) 330	5,897	7,592	370	7,961	3	1	2	3
Field Border (ft.) 386	114,812	154,996	0	154,996	4	3	4	2
Filter Strip (ac.) 393	314	314	110	423	0	0	3	4
Grassed Waterway (ac.) 412	941	1,126	144	1,270	0	5	3	2
Nutrient Management (ac.) 590	5,646	5,795	1,827	7,622	0	0	2	5
Pest Management (ac.) 595	5,583	5,583	1,954	7,538	0	0	2	0
Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329	5,960	7,448	597	8,046	4	2	2	2
Terrace (ft.) 600	277,140	316,444	57,696	374,139	3	5	1	2
Underground Outlet (ft.) 620	251,946	251,946	88,181	340,127	4	4	0	-2
Water & Sediment Control Basin (no.) 638	50	50	18	68	0	2	0	2

CONSERVATION SYSTEMS BY TREATMENT LEVELS	FUTURE	USDA INVESTMENT				PRIVATE INVESTMENT		
	New Treatment Units	Installation Cost	Management Cost - 3 yrs	Technical Assistance	Total Present Value Cost	Installation Cost	Annual O & M + Mgt Costs	Total Present Value Cost
		50%	100%	20%		50%	100%	
<b>Progressive System Acres Treated</b>	<b>13111.5105</b>							
Conservation Cover (ac.) 327	787	\$64,115	\$0	\$12,823	\$76,938	\$64,115	\$3,847	\$80,320
Contour Buffer Strips (ac.) 332	26	\$1,600	\$0	\$320	\$1,920	\$1,600	\$96	\$2,004
Contour Farming (ac.) 330	5,769	\$0	\$173,072	\$34,614	\$188,822	\$0	\$57,691	\$88,806
Field Border (ft.) 386	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Grassed Waterway (ac.) 412	656	\$393,345	\$0	\$78,669	\$472,014	\$393,345	\$15,734	\$459,622
Nutrient Management (ac.) 590	1,298	\$0	\$50,624	\$10,125	\$55,230	\$0	\$16,875	\$25,976
Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329	10,096	\$0	\$302,876	\$60,575	\$330,439	\$0	\$100,959	\$155,411
Terrace (ft.) 600	342,268	\$513,403	\$0	\$102,681	\$616,083	\$513,403	\$30,804	\$643,161
<b>Subtotal</b>		<b>\$972,463</b>	<b>\$526,571</b>	<b>\$299,807</b>	<b>\$1,741,447</b>	<b>\$972,463</b>	<b>\$226,005</b>	<b>\$1,455,299</b>
<b>Resource Management System (RMS) Acres Treated</b>	<b>2195.7075</b>							
Conservation Cover (ac.) 327	63	\$5,164	\$0	\$1,033	\$6,197	\$5,164	\$310	\$6,469
Contour Farming (ac.) 330	370	\$0	\$11,085	\$2,217	\$12,094	\$0	\$3,695	\$5,688
Field Border (ft.) 386	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Filter Strip (ac.) 393	110	\$219,571	\$0	\$43,914	\$263,485	\$219,571	\$8,783	\$256,567
Grassed Waterway (ac.) 412	144	\$86,574	\$0	\$17,315	\$103,888	\$86,574	\$3,463	\$101,161
Nutrient Management (ac.) 590	1,827	\$0	\$71,256	\$14,251	\$77,741	\$0	\$23,752	\$36,563
Pest Management (ac.) 595	1,954	\$0	\$23,450	\$4,690	\$25,584	\$0	\$7,817	\$12,033
Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329	597	\$0	\$17,917	\$3,583	\$19,547	\$0	\$5,972	\$9,194
Terrace (ft.) 600	57,696	\$86,543	\$0	\$17,309	\$103,852	\$86,543	\$5,193	\$108,417
Underground Outlet (ft.) 620	88,181	\$264,543	\$0	\$52,909	\$317,452	\$264,543	\$5,291	\$286,830
Water & Sediment Control Basin (no.) 638	18	\$35,272	\$0	\$7,054	\$42,327	\$35,272	\$2,116	\$44,187
<b>Subtotal</b>		<b>\$697,667</b>	<b>\$123,708</b>	<b>\$164,275</b>	<b>\$972,167</b>	<b>\$697,667</b>	<b>\$66,392</b>	<b>\$867,108</b>
<b>TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS</b>	<b>15307.218</b>	<b>\$1,670,130</b>	<b>\$650,280</b>	<b>\$464,082</b>	<b>\$2,713,614</b>	<b>\$1,670,130</b>	<b>\$292,396</b>	<b>\$2,322,407</b>

WATERSHED NAME & CODE		102 - 10240013			LANDUSE ACRES		87,976		
LANDUSE TYPE		PASTURELAND			TYPICAL UNIT SIZE ACRES		48		
ASSESSMENT INFORMATION					ESTIMATED PARTICIPATION		9%		
CONSERVATION SYSTEMS BY TREATMENT LEVELS		CURRENT CONDITIONS	FUTURE CONDITIONS			RESOURCE CONCERNS			
		Total Units	Existing Unchanged Units	New Treatment Units	Total Units	Plant Condition – Productivity, Health and Vigor	Plant Condition – Forage Quality and Palatability	Domestic Animals – Inadequate Quantities and Quality of Feed and Forage	Domestic Animals – Inadequate Stock Water
<b>Baseline System</b>		<b>System Rating -&gt;</b>			<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	
<b>Total Acreage at Baseline Level</b>		<b>79,178</b>	<b>71,261</b>	<b>0</b>	<b>71,261</b>				
Fence (ft.) 382	13,603,839	12,243,455	0	12,243,455	2	2	4	0	
Pond (no.) 378	1,650	1,485	0	1,485	2	1	0	5	
<b>Progressive System</b>		<b>System Rating -&gt;</b>			<b>5</b>	<b>5</b>	<b>5</b>	<b>3</b>	
<b>Total Acreage at Progressive Level</b>		<b>7,918</b>	<b>7,839</b>	<b>7,918</b>	<b>15,757</b>				
Fence (ft.) 382	1,410,365	2,756,645	49,981	2,806,627	2	2	4	0	
Nutrient Management (ac.) 590	5,360	5,307	5,360	10,667	3	4	4	0	
Pasture & Hayland Planting (ac.) 512	792	784	792	1,576	5	5	5	0	
Pond (no.) 378	330	492	165	657	2	1	0	5	
Prescribed Grazing (ac.) 528	3,959	3,919	3,959	7,878	5	5	5	0	
<b>Resource Management System (RMS)</b>		<b>System Rating -&gt;</b>			<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	
<b>Total Acreage at RMS Level</b>		<b>880</b>	<b>880</b>	<b>79</b>	<b>959</b>				
Fence (ft.) 382	173,404	187,508	1,503	189,011	2	2	4	0	
Forage Harvest Management (ac.) 511	826	826	74	900	4	4	4	0	
Nutrient Management (ac.) 590	651	705	5	710	3	4	4	0	
Pasture & Hayland Planting (ac.) 512	838	846	68	914	5	5	5	0	
Pest Management (ac.) 595	388	388	35	423	5	4	4	0	
Pipeline (ft.) 516	9,164	9,164	825	9,989	2	2	0	5	
Pond (no.) 378	55	58	2	60	2	1	0	5	
Prescribed Grazing (ac.) 528	826	866	35	900	5	5	5	0	
Use Exclusion (ac.) 472	19	19	2	21	4	3	3	0	
Watering Facility (no.) 614	18	18	2	20	2	3	4	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
<b>Progressive System Acres Treated</b>	<b>7917.84</b>							
Fence (ft.) 382	49,981	\$46,483	\$0	\$9,297	\$55,779	\$46,483	\$1,859	\$54,315
Nutrient Management (ac.) 590	5,360	\$0	\$209,055	\$41,811	\$228,080	\$0	\$69,685	\$107,270
Pasture & Hayland Planting (ac.) 512	792	\$53,445	\$0	\$10,689	\$64,135	\$53,445	\$1,069	\$57,948
Pond (no.) 378	165	\$1,212,419	\$0	\$242,484	\$1,454,903	\$1,212,419	\$121,242	\$1,723,134
Prescribed Grazing (ac.) 528	3,959	\$112,829	\$0	\$22,566	\$135,395	\$112,829	\$0	\$112,829
<b>Subtotal</b>	<b>7917.84</b>	<b>\$1,425,177</b>	<b>\$209,055</b>	<b>\$326,846</b>	<b>\$1,938,291</b>	<b>\$1,425,177</b>	<b>\$193,855</b>	<b>\$2,055,496</b>
<b>Resource Management System (RMS) Acres Treated</b>	<b>79.1784</b>							
Fence (ft.) 382	1,503	\$1,398	\$0	\$280	\$1,677	\$1,398	\$56	\$1,633
Forage Harvest Management (ac.) 511	74	\$0	\$22,305	\$4,461	\$24,334	\$0	\$7,435	\$11,445
Nutrient Management (ac.) 590	5	\$0	\$195	\$39	\$212	\$0	\$65	\$100
Pasture & Hayland Planting (ac.) 512	68	\$4,559	\$0	\$912	\$5,471	\$4,559	\$91	\$4,943
Pest Management (ac.) 595	35	\$0	\$419	\$84	\$457	\$0	\$140	\$215
Pipeline (ft.) 516	825	\$660	\$0	\$132	\$792	\$660	\$26	\$771
Pond (no.) 378	2	\$12,124	\$0	\$2,425	\$14,549	\$12,124	\$1,212	\$17,231
Prescribed Grazing (ac.) 528	35	\$991	\$0	\$198	\$1,189	\$991	\$0	\$991
Use Exclusion (ac.) 472	2	\$35	\$0	\$7	\$42	\$35	\$2	\$44
Watering Facility (no.) 614	2	\$825	\$0	\$165	\$990	\$825	\$49	\$1,033
<b>Subtotal</b>	<b>79.1784</b>	<b>\$20,591</b>	<b>\$22,918</b>	<b>\$8,702</b>	<b>\$49,713</b>	<b>\$20,591</b>	<b>\$9,077</b>	<b>\$38,406</b>
<b>TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS</b>	<b>7997.0184</b>	<b>\$1,445,767</b>	<b>\$231,973</b>	<b>\$335,548</b>	<b>\$1,988,004</b>	<b>\$1,445,767</b>	<b>\$202,932</b>	<b>\$2,093,901</b>

WATERSHED NAME & CODE		102 RIVER - 10240013			LANDUSE ACRES		19,629	
LANDUSE TYPE		WOODLAND			TYPICAL UNIT SIZE ACRES		22	
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	Plant Condition – Noxious and Invasive Plants	Fish and Wildlife – T & E Species: Declining Species, Species of Concern		
<b>Baseline System</b>		<b>System Rating -&gt;</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Acreage at Baseline Level</b>		<b>18,648</b>	<b>17,715</b>	<b>0</b>	<b>17,715</b>			
No Conservation Practices being applied at this level		0	0	0	0	0	0	0
<b>Progressive System</b>		<b>System Rating -&gt;</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Acreage at Progressive Level</b>		<b>589</b>	<b>583</b>	<b>932</b>	<b>1,515</b>			
No Conservation Practices being applied at this level		0	0	0	0	0	0	0
<b>Resource Management System (RMS)</b>		<b>System Rating -&gt;</b>			<b>4</b>	<b>1</b>	<b>#VALUE!</b>	<b>#VALUE!</b>
<b>Total Acreage at RMS Level</b>		<b>393</b>	<b>393</b>	<b>6</b>	<b>398</b>			
Fence (ft.) 382		40,507	40,507	608	41,115	1	0	
Forest Stand Improvement (ac.) 666		196	196	3	199	4	1	
Pest Management (ac.) 595		353	353	5	359	5	0	
Use Exclusion (ac.) 472		353	353	5	359	4	2	

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
<b>Progressive System Acres Treated</b>	<b>932.3775</b>							
No Conservation Practices being applied at this level	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<b>Subtotal</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Resource Management System (RMS) Acres Treated</b>	<b>5.8887</b>							
Fence (ft.) 382	608	\$565	\$0	\$113	\$678	\$565	\$23	\$660
Forest Stand Improvement (ac.) 666	3	\$180	\$0	\$36	\$216	\$180	\$11	\$225
Pest Management (ac.) 595	5	\$0	\$64	\$13	\$69	\$0	\$21	\$33
Use Exclusion (ac.) 472	5	\$106	\$0	\$21	\$127	\$106	\$6	\$133
	<b>Subtotal</b>	<b>\$851</b>	<b>\$64</b>	<b>\$183</b>	<b>\$1,090</b>	<b>\$851</b>	<b>\$61</b>	<b>\$1,051</b>
<b>TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS</b>	<b>938.2662</b>	<b>\$851</b>	<b>\$64</b>	<b>\$183</b>	<b>\$1,090</b>	<b>\$851</b>	<b>\$61</b>	<b>\$1,051</b>