

WATERSHED NAME & CODE		LOWER BIG SIOUX RIVER - 10170203				LANDUSE ACRES		264,150	
LANDUSE TYPE		ROW CROP				TYPICAL UNIT SIZE ACRES		347	
ASSESSMENT INFORMATION						ESTIMATED PARTICIPATION		39%	
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	Water Quality – Excessive Nutrients and Organics in Surface Water	Water Quality – Harmful Levels of Pathogens in Surface Water
Baseline System		System Rating ->				4	4	4	1
Total Acreage at Baseline Level		105,660	36,981	0	36,981				
Conservation Crop Rotation (ac.) 328		79,245	27,736	0	27,736	4	2	2	1
Critical Area Planting (ac.) 342		5,283	1,849	0	1,849	5	5	2	1
Field Border (ft.) 386		30,450	10,657	0	10,657	4	3	2	1
Forage Harvest Management (ac.) 511		0	0	0	0	1	1	2	1
Nutrient Management (ac.) 590		105,660	36,981	0	36,981	0	0	5	1
Progressive System		System Rating ->				5	5	5	2
Total Acreage at Progressive Level		97,736	87,962	63,396	151,358				
Conservation Crop Rotation (ac.) 328		87,962	126,713	9,509	136,222	4	2	2	1
Contour Farming (ac.) 330		73,302	65,971	47,547	113,518	3	1	3	1
Cover Crop (ac.) 340		43,981	39,583	28,528	68,111	4	2	2	1
Critical Area Planting (ac.) 342		4,887	7,568	0	7,568	5	5	2	1
Field Border (ft.) 386		140,829	145,016	73,079	218,095	4	3	2	1
Filter Strip (ac.) 393		977	880	634	1,514	0	0	4	1
Forage Harvest Management (ac.) 511		24,434	21,990	15,849	37,839	1	1	2	1
Grassed Waterway (ac.) 412		1,955	1,759	1,268	3,027	0	5	2	1
Nutrient Management (ac.) 590		97,736	151,358	0	151,358	0	0	5	1
Residue and Tillage Management, Mulch Till (ac.) 345		63,528	57,175	41,207	98,383	1	0	0	0
Resource Management System (RMS)		System Rating ->				5	5	4	3
Total Acreage at RMS Level		59,434	59,434	15,057	74,490				
Channel Bank Vegetation (ac.) 322		5,943	5,943	1,506	7,449	0	0	0	0
Channel Stabilization (ft.) 584		42,820	42,820	10,848	53,667	0	0	0	0
Conservation Cover (ac.) 327		5,943	5,943	1,506	7,449	5	2	2	1
Conservation Crop Rotation (ac.) 328		59,434	72,192	2,298	74,490	4	2	2	1
Contour Buffer Strips (ac.) 332		1,189	1,189	301	1,490	4	1	3	1
Contour Farming (ac.) 330		50,519	57,849	5,468	63,317	3	1	3	1
Cover Crop (ac.) 340		17,830	20,762	1,585	22,347	4	2	2	1
Critical Area Planting (ac.) 342		594	745	0	745	5	5	2	1
Field Border (ft.) 386		171,279	186,884	27,785	214,669	4	3	2	1
Filter Strip (ac.) 393		594	692	53	745	0	0	4	1
Forage Harvest Management (ac.) 511		29,717	32,160	5,085	37,245	1	1	2	1
Grassed Waterway (ac.) 412		1,783	1,978	256	2,235	0	5	2	1
Nutrient Management (ac.) 590		59,434	74,490	0	74,490	0	0	5	1
Residue and Tillage Management, Mulch Till (ac.) 345		5,943	6,921	528	7,449	1	0	0	0
Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329		53,490	53,490	13,551	67,041	4	2	2	2
Subsurface Drain (ft.) 606		42,820	42,820	10,848	53,667	4	4	-2	0
Terrace (ft.) 600		1,284,591	1,284,591	325,430	1,610,021	3	5	2	2
CONSERVATION INVESTMENT INFORMATION									
CONSERVATION SYSTEMS BY TREATMENT LEVELS		FUTURE	USDA INVESTMENT				PRIVATE INVESTMENT		
		New Treatment Units	Installation Cost 75%	Management Cost - 3 yrs 100%	Technical Assistance 20%	Total Present Value Cost	Installation Cost 25%	Annual O & M + Mgt Costs 100%	Total Present Value Cost
Progressive System Acres Treated		63396							
Conservation Crop Rotation (ac.) 328		9,509	\$0	\$427,923	\$85,585	\$466,866	\$0	\$142,641	\$219,575
Contour Farming (ac.) 330		47,547	\$0	\$713,205	\$142,641	\$778,109	\$0	\$237,735	\$365,958
Cover Crop (ac.) 340		28,528	\$0	\$2,695,915	\$539,183	\$2,941,254	\$0	\$898,638	\$1,383,321
Critical Area Planting (ac.) 342		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Field Border (ft.) 386		73,079	\$19,183	\$0	\$3,837	\$23,020	\$6,394	\$256	\$7,472
Filter Strip (ac.) 393		634	\$950,940	\$0	\$190,188	\$1,141,128	\$316,980	\$25,358	\$423,799
Forage Harvest Management (ac.) 511		15,849	\$0	\$380,376	\$76,075	\$414,992	\$0	\$126,792	\$195,177
Grassed Waterway (ac.) 412		1,268	\$228,226	\$0	\$45,645	\$273,871	\$76,075	\$6,086	\$101,712
Nutrient Management (ac.) 590		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Residue and Tillage Management, Mulch Till (ac.) 345		41,207	\$0	\$2,472,444	\$494,489	\$2,697,446	\$0	\$824,148	\$1,268,654
Subtotal			\$1,198,349	\$6,689,863	\$1,577,642	\$8,736,686	\$399,450	\$2,261,654	\$3,965,667
Resource Management System (RMS) Acres Treated		15056.55							
Channel Bank Vegetation (ac.) 322		1,506	\$12,308,730	\$0	\$2,461,746	\$14,770,476	\$4,102,910	\$820,582	\$7,559,500
Channel Stabilization (ft.) 584		10,848	\$732,217	\$0	\$146,443	\$878,660	\$244,072	\$19,526	\$326,322
Conservation Cover (ac.) 327		1,506	\$112,924	\$0	\$22,585	\$135,509	\$37,641	\$4,517	\$56,668
Conservation Crop Rotation (ac.) 328		2,298	\$0	\$103,415	\$20,683	\$112,826	\$0	\$34,472	\$53,064
Contour Buffer Strips (ac.) 332		301	\$20,326	\$0	\$4,065	\$24,392	\$6,775	\$813	\$10,200
Contour Farming (ac.) 330		5,468	\$0	\$82,019	\$16,404	\$89,483	\$0	\$27,340	\$42,085
Cover Crop (ac.) 340		1,585	\$0	\$149,773	\$29,955	\$163,403	\$0	\$49,924	\$76,851
Critical Area Planting (ac.) 342		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Field Border (ft.) 386		27,785	\$7,294	\$0	\$1,459	\$8,752	\$2,431	\$97	\$2,841
Filter Strip (ac.) 393		53	\$79,245	\$0	\$15,849	\$95,094	\$26,415	\$2,113	\$35,317
Forage Harvest Management (ac.) 511		5,085	\$0	\$122,037	\$24,407	\$133,143	\$0	\$40,679	\$62,619
Grassed Waterway (ac.) 412		256	\$46,121	\$0	\$9,224	\$55,345	\$15,374	\$1,230	\$20,554
Nutrient Management (ac.) 590		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Residue and Tillage Management, Mulch Till (ac.) 345		528	\$0	\$31,698	\$6,340	\$34,583	\$0	\$10,566	\$16,265
Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329		13,551	\$0	\$406,527	\$81,305	\$443,522	\$0	\$135,509	\$208,596
Subsurface Drain (ft.) 606		10,848	\$56,950	\$0	\$11,390	\$68,340	\$18,983	\$759	\$22,182
Terrace (ft.) 600		325,430	\$366,108	\$0	\$73,222	\$439,330	\$122,036	\$14,644	\$183,723
Subtotal			\$13,729,915	\$895,469	\$2,925,077	\$17,452,858	\$4,576,638	\$1,162,771	\$8,676,788
TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS		78452.55	\$14,928,264	\$7,585,331	\$4,502,719	\$26,189,543	\$4,976,088	\$3,424,426	\$12,642,455

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