

**Enter Watershed Variables Below**

Watershed Name	<input type="text" value="Little Osage River"/>	Watershed Code	<input type="text" value="10290103"/>	<input type="button" value="Help"/>	
Landuse Type	<input type="text" value="Cultivated Cropland"/>	Landuse Acres	<input type="text" value="116,800"/>	Interest Rate	<input type="text" value="6%"/>
Typical Unit Size (ac)	<input type="text" value="80"/>	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>	<b>COMPARE</b>	<input type="text" value="32%"/>	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	40%	46,720	Baseline	40%	18,688	Baseline	16%	18,688	18,688	0
			Progressive	50%	23,360					
			RMS	10%	4,672					
			<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	50%	58,400	Progressive	90%	52,560	Progressive	65%	75,920	52,560	23,360
			RMS	10%	5,840					
			<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	10%	11,680	RMS	100%	11,680	RMS	19%	22,192	11,680	10,512
<b>Grand Totals</b>	<b>100%</b>	<b>116,800</b>					<b>100%</b>	<b>116,800</b>	<b>82,928</b>	<b>33,872</b>



# 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
328	x 60.0%	x 80.0%	x 100.0%	PERCENT of TU	Conservation Crop Rotation (ac.) 328
330	0.0%	0.0%	x 40.0%	PERCENT of TU	Contour Farming (ac.) 330
340	0.0%	0.0%	x 10.0%	PERCENT of TU	Cover Crop (ac.) 340
342	0.0%	x 2.0%	x 3.0%	PERCENT of TU	Critical Area Planting (ac.) 342
345	x 100.0%	x 100.0%	x 100.0%	PERCENT of TU	Residue and Tillage Management, Mulch Till (ac.) 345
386	0	x 3,000	x 5,000	FEET per TU	Field Border (ft.) 386
412	0.0%	x 2.0%	x 2.0%	PERCENT of TU	Grassed Waterway (ac.) 412
590	x 25.0%	x 75.0%	x 100.0%	PERCENT of TU	Nutrient Management (ac.) 590
595	0.0%	x 80.0%	x 100.0%	PERCENT of TU	Pest Management (ac.) 595
600	0	x 6,000	x 7,000	FEET per TU	Terrace (ft.) 600
606	0	0	x 400	FEET per TU	Subsurface Drain (ft.) 606
620	0	0	x 2,500	FEET per TU	Underground Outlet (ft.) 620
633	0.0%	0.0%	x 12.0%	PERCENT of TU	Waste Utilization (ac.) 633
442	0.0%	0.0%	5.0%	PERCENT of TU	Irrigation System, Sprinkler (ac.) 442
449	0.0%	0.0%	0.5%	PERCENT of TU	Irrigation Water Management (ac.) 449
329	0.0%	0.0%	0.0%	PERCENT of TU	Residue Management, No-Till/Strip Till/Direct Seed (ac.) 329
346	0.0%	0.0%	0.0%	PERCENT of TU	Residue and Tillage Management, Ridge Till (ac.) 346
587	0	0	1	NUMBER per TU	Structure for Water Control (no.) 587
344	100.0%	100.0%	100.0%	PERCENT of TU	Residue Management, Seasonal (ac.) 344
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
464	100.0%	100.0%	100.0%	PERCENT of TU	Irrigation Land Leveling (ac.) 464
533	1	1	1	NUMBER per TU	Pumping Plant (no.) 533

Help

WATERSHED NAME & CODE		LITTLE OSAGE RIVER - 10290103			LANDUSE ACRES		116,800		
LANDUSE TYPE		CULTIVATED CROPLAND			TYPICAL UNIT SIZE ACRES		80		
ASSESSMENT INFORMATION					ESTIMATED PARTICIPATION		32%		
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 Erosion – Classic Gully	Water Quality – Excessive Nutrients and Organics in
<b>Baseline System</b>		<b>System Rating -&gt;</b>			<b>2</b>	<b>1</b>	<b>0</b>	<b>3</b>	
<b>Total Acreage at Baseline Level</b>		<b>46,720</b>	<b>18,688</b>	<b>0</b>	<b>18,688</b>				
Conservation Crop Rotation (ac.) 328		28,032	11,213	0	11,213	4	2	1	2
Nutrient Management (ac.) 590		11,680	4,672	0	4,672	0	0	0	5
Residue and Tillage Management, Mulch Till (ac.) 345		46,720	18,688	0	18,688	0	0	0	0
<b>Progressive System</b>		<b>System Rating -&gt;</b>			<b>5</b>	<b>5</b>	<b>4</b>	<b>4</b>	
<b>Total Acreage at Progressive Level</b>		<b>58,400</b>	<b>52,560</b>	<b>23,360</b>	<b>75,920</b>				
Conservation Crop Rotation (ac.) 328		46,720	56,064	4,672	60,736	4	2	1	2
Critical Area Planting (ac.) 342		1,168	1,051	467	1,518	5	5	4	2
Field Border (ft.) 386		2,190,000	1,971,000	876,000	2,847,000	4	3	2	2
Grassed Waterway (ac.) 412		1,168	1,051	467	1,518	0	5	4	2
Nutrient Management (ac.) 590		43,800	45,260	11,680	56,940	0	0	0	5
Pest Management (ac.) 595		46,720	42,048	18,688	60,736	0	0	0	0
Residue and Tillage Management, Mulch Till (ac.) 345		58,400	75,920	0	75,920	0	0	0	0
Terrace (ft.) 600		4,380,000	3,942,000	1,752,000	5,694,000	5	4	2	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>11,680</b>	<b>11,680</b>	<b>10,512</b>	<b>22,192</b>				
Conservation Crop Rotation (ac.) 328		11,680	19,155	3,037	22,192	4	2	1	2
Contour Farming (ac.) 330		4,672	4,672	4,205	8,877	3	2	1	3
Cover Crop (ac.) 340		1,168	1,168	1,051	2,219	4	4	1	2
Critical Area Planting (ac.) 342		350	467	199	666	5	5	4	2
Field Border (ft.) 386		730,000	949,000	438,000	1,387,000	4	3	2	2
Grassed Waterway (ac.) 412		234	350	93	444	0	5	4	2
Nutrient Management (ac.) 590		11,680	17,228	4,964	22,192	0	0	0	5
Pest Management (ac.) 595		11,680	16,352	5,840	22,192	0	0	0	0
Residue and Tillage Management, Mulch Till (ac.) 345		11,680	22,192	0	22,192	0	0	0	0
Subsurface Drain (ft.) 606		58,400	58,400	52,560	110,960	4	4	1	-2
Terrace (ft.) 600		1,022,000	1,460,000	481,800	1,941,800	5	4	2	2
Underground Outlet (ft.) 620		365,000	365,000	328,500	693,500	0	5	4	-1
Waste Utilization (ac.) 633		1,402	1,402	1,261	2,663	2	1	0	2



WATERSHED NAME & CODE		LITTLE OSAGE RIVER - 10290103						LANDUSE ACRES			116,800	
LANDUSE TYPE		CULTIVATED CROPLAND						TYPICAL UNIT SIZE ACRES			80	
POSSIBLE SOURCES OF FUNDING							ESTIMATED PARTICIPATION				32%	
CONSERVATION SYSTEMS BY TREATMENT LEVELS		FUTURE	USDA INVESTMENT					OTHERS			NOTES/COMMENTS	
		New Treatment Units	CTA	EQIP	WRP	WHIP	CSP	CRP/ CREP	Fed	State		District
<b>Progressive System Acres Treated</b>		<b>23,360</b>										
Conservation Crop Rotation (ac.) 328	4,672	X	X									
Critical Area Planting (ac.) 342	467	X	X									
Field Border (ft.) 386	876,000	X	X				X					
Grassed Waterway (ac.) 412	467	X	X				X					
Nutrient Management (ac.) 590	11,680	X	X									
Pest Management (ac.) 595	18,688	X	X									
Residue and Tillage Management, Mulch Till (ac.) 345	0	X										
Terrace (ft.) 600	1,752,000	X	X				X					
<b>Resource Management System (RMS) Acres Treated</b>		<b>10,512</b>										
Conservation Crop Rotation (ac.) 328	3,037	X	X									
Contour Farming (ac.) 330	4,205	X										
Cover Crop (ac.) 340	1,051	X	X									
Critical Area Planting (ac.) 342	199	X	X									
Field Border (ft.) 386	438,000	X	X				X					
Grassed Waterway (ac.) 412	93	X	X				X					
Nutrient Management (ac.) 590	4,964	X	X									
Pest Management (ac.) 595	5,840	X	X									
Residue and Tillage Management, Mulch Till (ac.) 345	0	X										
Subsurface Drain (ft.) 606	52,560	X										
Terrace (ft.) 600	481,800	X	X				X					
Underground Outlet (ft.) 620	328,500	X	X									
Waste Utilization (ac.) 633	1,261	X	X									

WATERSHED NAME & CODE		LITTLE OSAGE RIVER - 10290103				LANDUSE ACRES		116,800	
LANDUSE TYPE		CULTIVATED CROPLAND				TYPICAL UNIT SIZE ACRES		80	
ASSESSMENT INFORMATION						ESTIMATED PARTICIPATION		32%	
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 Erosion – Classic Gully	Water Quality – Excessive Nutrients and Organics in Surface Waters
<b>Baseline System</b>		System Rating ->				2	1	0	3
<b>Total Acreage at Baseline Level</b>		<b>46,720</b>	<b>18,688</b>	<b>0</b>	<b>18,688</b>				
Conservation Crop Rotation (ac.) 328		28,032	11,213	0	11,213	4	2	1	2
Nutrient Management (ac.) 590		11,680	4,672	0	4,672	0	0	0	5
Residue and Tillage Management, Mulch Till (ac.) 345		46,720	18,688	0	18,688	0	0	0	0
<b>Progressive System</b>		System Rating ->				5	5	4	4
<b>Total Acreage at Progressive Level</b>		<b>58,400</b>	<b>52,560</b>	<b>23,360</b>	<b>75,920</b>				
Conservation Crop Rotation (ac.) 328		46,720	56,064	4,672	60,736	4	2	1	2
Critical Area Planting (ac.) 342		1,168	1,051	467	1,518	5	5	4	2
Field Border (ft.) 386		2,190,000	1,971,000	876,000	2,847,000	4	3	2	2
Grassed Waterway (ac.) 412		1,168	1,051	467	1,518	0	5	4	2
Nutrient Management (ac.) 590		43,800	45,260	11,680	56,940	0	0	0	5
Pest Management (ac.) 595		46,720	42,048	18,688	60,736	0	0	0	0
Residue and Tillage Management, Mulch Till (ac.) 345		58,400	75,920	0	75,920	0	0	0	0
Terrace (ft.) 600		4,380,000	3,942,000	1,752,000	5,694,000	5	4	2	2
<b>Resource Management System (RMS)</b>		System Rating ->				5	5	4	4
<b>Total Acreage at RMS Level</b>		<b>11,680</b>	<b>11,680</b>	<b>10,512</b>	<b>22,192</b>				
Conservation Crop Rotation (ac.) 328		11,680	19,155	3,037	22,192	4	2	1	2
Contour Farming (ac.) 330		4,672	4,672	4,205	8,877	3	2	1	3
Cover Crop (ac.) 340		1,168	1,168	1,051	2,219	4	4	1	2
Critical Area Planting (ac.) 342		350	467	199	666	5	5	4	2
Field Border (ft.) 386		730,000	949,000	438,000	1,387,000	4	3	2	2
Grassed Waterway (ac.) 412		234	350	93	444	0	5	4	2
Nutrient Management (ac.) 590		11,680	17,228	4,964	22,192	0	0	0	5
Pest Management (ac.) 595		11,680	16,352	5,840	22,192	0	0	0	0
Residue and Tillage Management, Mulch Till (ac.) 345		11,680	22,192	0	22,192	0	0	0	0
Subsurface Drain (ft.) 606		58,400	58,400	52,560	110,960	4	4	1	-2
Terrace (ft.) 600		1,022,000	1,460,000	481,800	1,941,800	5	4	2	2
Underground Outlet (ft.) 620		365,000	365,000	328,500	693,500	0	5	4	-1
Waste Utilization (ac.) 633		1,402	1,402	1,261	2,663	2	1	0	2
<b>CONSERVATION INVESTMENT INFORMATION</b>									
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>23360</b>							
Conservation Crop Rotation (ac.) 328		4,672	\$0	\$210,240	\$42,048	\$229,373	\$0	\$70,080	\$107,878
Critical Area Planting (ac.) 342		467	\$111,236	\$0	\$22,247	\$133,483	\$111,236	\$2,225	\$120,607
Field Border (ft.) 386		876,000	\$21,900	\$0	\$4,380	\$26,280	\$21,900	\$876	\$25,590
Grassed Waterway (ac.) 412		467	\$476,140	\$0	\$95,228	\$571,368	\$476,140	\$28,568	\$596,480
Nutrient Management (ac.) 590		11,680	\$0	\$443,957	\$88,791	\$484,359	\$0	\$147,986	\$227,802
Pest Management (ac.) 595		18,688	\$0	\$1,196,406	\$239,281	\$1,305,283	\$0	\$398,802	\$613,896
Residue and Tillage Management, Mulch Till (ac.) 345		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Terrace (ft.) 600		1,752,000	\$1,795,800	\$0	\$359,160	\$2,154,960	\$1,795,800	\$71,832	\$2,098,383
<b>Subtotal</b>			<b>\$2,405,076</b>	<b>\$1,850,603</b>	<b>\$851,136</b>	<b>\$4,905,105</b>	<b>\$2,405,076</b>	<b>\$720,369</b>	<b>\$3,790,636</b>
<b>Resource Management System (RMS) Acres Treated</b>		<b>10512</b>							
Conservation Crop Rotation (ac.) 328		3,037	\$0	\$136,656	\$27,331	\$149,092	\$0	\$45,552	\$70,121
Contour Farming (ac.) 330		4,205	\$0	\$63,072	\$12,614	\$68,812	\$0	\$21,024	\$32,363
Cover Crop (ac.) 340		1,051	\$0	\$150,584	\$30,117	\$164,288	\$0	\$50,195	\$77,267
Critical Area Planting (ac.) 342		199	\$47,275	\$0	\$9,455	\$56,730	\$47,275	\$946	\$51,258
Field Border (ft.) 386		438,000	\$10,950	\$0	\$2,190	\$13,140	\$10,950	\$438	\$12,795
Grassed Waterway (ac.) 412		93	\$95,228	\$0	\$19,046	\$114,274	\$95,228	\$5,714	\$119,296
Nutrient Management (ac.) 590		4,964	\$0	\$188,682	\$37,736	\$205,852	\$0	\$62,894	\$96,816
Pest Management (ac.) 595		5,840	\$0	\$373,877	\$74,775	\$407,901	\$0	\$124,626	\$191,843
Residue and Tillage Management, Mulch Till (ac.) 345		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subsurface Drain (ft.) 606		52,560	\$183,960	\$0	\$36,792	\$220,752	\$183,960	\$3,679	\$199,458
Terrace (ft.) 600		481,800	\$493,845	\$0	\$98,769	\$592,614	\$493,845	\$19,754	\$577,055
Underground Outlet (ft.) 620		328,500	\$70,628	\$0	\$14,126	\$84,753	\$70,628	\$4,238	\$88,478
Waste Utilization (ac.) 633		1,261	\$0	\$56,765	\$11,353	\$61,931	\$0	\$18,922	\$29,127
<b>Subtotal</b>			<b>\$901,886</b>	<b>\$969,636</b>	<b>\$374,304</b>	<b>\$2,140,139</b>	<b>\$901,886</b>	<b>\$357,980</b>	<b>\$1,545,877</b>
<b>TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS</b>		<b>33872</b>	<b>\$3,306,961</b>	<b>\$2,820,238</b>	<b>\$1,225,440</b>	<b>\$7,045,244</b>	<b>\$3,306,961</b>	<b>\$1,078,348</b>	<b>\$5,336,513</b>

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

**Enter Watershed Variables Below**

Watershed Name	<input type="text" value="Little Osage River"/>	Watershed Code	<input type="text" value="10290103"/>	<input type="button" value="Help"/>	
Landuse Type	<input type="text" value="Non-Cultivated Cropland"/>	Landuse Acres	<input type="text" value="15,900"/>	Interest Rate	<input type="text" value="6%"/>
Typical Unit Size (ac)	<input type="text" value="80"/>	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>	<b>COMPARE</b>	<input type="text" value="28%"/>	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	25%	3,975	Baseline	50%	1,988	Baseline	13%	1,988	1,988	0
			Progressive	25%	994					
			RMS	25%	994					
			<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	45%	7,155	Progressive	85%	6,082	Progressive	45%	7,076	6,082	994
			RMS	15%	1,073					
			<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	30%	4,770	RMS	100%	4,770	RMS	43%	6,837	4,770	2,067
<b>Grand Totals</b>	<b>100%</b>	<b>15,900</b>					<b>100%</b>	<b>15,900</b>	<b>12,839</b>	<b>3,061</b>



# 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
314	0.0%	x 30.0%	x 40.0%	PERCENT of TU	Brush Management (ac.) 314
327	x 35.0%	x 35.0%	x 35.0%	PERCENT of TU	Conservation Cover (ac.) 327
342	0.0%	x 3.0%	0.0%	PERCENT of TU	Critical Area Planting (ac.) 342
391	0.0%	0.0%	x 4.0%	PERCENT of TU	Riparian Forest Buffer (ac.) 391
393	0.0%	x 2.0%	x 2.0%	PERCENT of TU	Filter Strip (ac.) 393
412	0.0%	x 0.5%	x 0.5%	PERCENT of TU	Grassed Waterway (ac.) 412
472	x 65.0%	x 65.0%	x 65.0%	PERCENT of TU	Use Exclusion (ac.) 472
511	x 30.0%	x 50.0%	x 60.0%	PERCENT of TU	Forage Harvest Management (ac.) 511
595	0.0%	x 40.0%	x 50.0%	PERCENT of TU	Pest Management (ac.) 595
643	0.0%	0.0%	x 3.0%	PERCENT of TU	Restoration and Management of Declining Habitats (ac.) 643
645	x 40.0%	x 60.0%	x 80.0%	PERCENT of TU	Upland Wildlife Habitat Management (ac.) 645
646	0.0%	x 3.0%	x 5.0%	PERCENT of TU	Shallow Water Management for Wildlife (ac.) 646
647	0.0%	0.0%	x 25.0%	PERCENT of TU	Early Successional Habitat Development/Management (ac.) 647
648	0	0	x 1	NUMBER per TU	Wildlife Watering Facility (no.) 648
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, Plasti
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
533	1	1	1	NUMBER per TU	Pumping Plant (no.) 533

Help

WATERSHED NAME & CODE		LITTLE OSAGE RIVER - 10290103			LANDUSE ACRES		15,900		
LANDUSE TYPE		NON-CULTIVATED CROPLAND			TYPICAL UNIT SIZE ACRES		80		
ASSESSMENT INFORMATION					ESTIMATED PARTICIPATION		28%		
		CURRENT CONDITIONS	FUTURE CONDITIONS		RESOURCE CONCERNS				
CONSERVATION SYSTEMS BY TREATMENT LEVELS		Total Units	Existing Unchanged Units	New Treatment Units	Total Units	Plant Condition – T & E Plant Species: Declining Species	Plant Condition – Noxious and Invasive Plants	Plants not adapted or suited	Fish and Wildlife – Inadequate Food
<b>Baseline System</b>					<b>System Rating -&gt;</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>4</b>
<b>Total Acreage at Baseline Level</b>		<b>3,975</b>	<b>1,988</b>	<b>0</b>	<b>1,988</b>				
Conservation Cover (ac.) 327		1,391	696	0	696	0	4	4	2
Forage Harvest Management (ac.) 511		1,193	596	0	596	0	4	3	2
Upland Wildlife Habitat Management (ac.) 645		1,590	795	0	795	1	4	4	5
Use Exclusion (ac.) 472		2,584	1,292	0	1,292	0	4	3	3
<b>Progressive System</b>					<b>System Rating -&gt;</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>5</b>
<b>Total Acreage at Progressive Level</b>		<b>7,155</b>	<b>6,082</b>	<b>994</b>	<b>7,076</b>				
Brush Management (ac.) 314		2,147	1,825	298	2,123	0	4	4	3
Conservation Cover (ac.) 327		2,504	2,476	0	2,476	0	4	4	2
Critical Area Planting (ac.) 342		215	182	30	212	0	4	4	2
Filter Strip (ac.) 393		143	122	20	142	0	4	4	3
Forage Harvest Management (ac.) 511		3,578	3,339	199	3,538	0	4	3	2
Grassed Waterway (ac.) 412		36	30	5	35	0	4	4	1
Pest Management (ac.) 595		2,862	2,433	398	2,830	3	5	4	3
Shallow Water Management for Wildlife (ac.) 646		215	182	30	212	0	1	4	4
Upland Wildlife Habitat Management (ac.) 645		4,293	4,047	199	4,245	1	4	4	5
Use Exclusion (ac.) 472		4,651	4,599	0	4,599	0	4	3	3
<b>Resource Management System (RMS)</b>					<b>System Rating -&gt;</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>5</b>
<b>Total Acreage at RMS Level</b>		<b>4,770</b>	<b>4,770</b>	<b>2,067</b>	<b>6,837</b>				
Brush Management (ac.) 314		1,908	2,230	505	2,735	0	4	4	3
Conservation Cover (ac.) 327		1,670	2,393	0	2,393	0	4	4	2
Early Successional Habitat Development/Management (ac.) 647		1,193	1,193	517	1,709	0	1	4	4
Filter Strip (ac.) 393		95	117	20	137	0	4	4	3
Forage Harvest Management (ac.) 511		2,862	3,697	405	4,102	0	4	3	2
Grassed Waterway (ac.) 412		24	29	5	34	0	4	4	1
Pest Management (ac.) 595		2,385	2,814	604	3,419	3	5	4	3
Restoration and Management of Declining Habitats (ac.) 643		143	143	62	205	0	4	4	4
Riparian Forest Buffer (ac.) 391		191	191	83	273	0	4	4	4
Shallow Water Management for Wildlife (ac.) 646		239	271	71	342	0	1	4	4
Upland Wildlife Habitat Management (ac.) 645		3,816	4,857	612	5,470	1	4	4	5
Use Exclusion (ac.) 472		3,101	4,444	0	4,444	0	4	3	3
Wildlife Watering Facility (no.) 648		60	60	26	85	0	0	0	4

WATERSHED NAME & CODE		LITTLE OSAGE RIVER - 10290103				LANDUSE ACRES		15,900	
LANDUSE TYPE		NON-CULTIVATED CROPLAND				TYPICAL UNIT SIZE ACRES		80	
CONSERVATION INVESTMENT INFORMATION						ESTIMATED PARTICIPATION		28%	
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>994</b>							
Brush Management (ac.) 314	298	\$13,220	\$0	\$2,644	\$15,864	\$13,220	\$264	\$14,334	
Conservation Cover (ac.) 327	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Critical Area Planting (ac.) 342	30	\$7,098	\$0	\$1,420	\$8,518	\$7,098	\$142	\$7,696	
Filter Strip (ac.) 393	20	\$696	\$0	\$139	\$835	\$696	\$42	\$871	
Forage Harvest Management (ac.) 511	199	\$795	\$0	\$159	\$954	\$795	\$239	\$1,800	
Grassed Waterway (ac.) 412	5	\$5,064	\$0	\$1,013	\$6,077	\$5,064	\$304	\$6,344	
Pest Management (ac.) 595	398	\$0	\$25,448	\$5,090	\$27,764	\$0	\$8,483	\$13,058	
Shallow Water Management for Wildlife (ac.) 646	30	\$149	\$0	\$30	\$179	\$149	\$0	\$149	
Upland Wildlife Habitat Management (ac.) 645	199	\$0	\$8,944	\$1,789	\$9,758	\$0	\$2,981	\$4,589	
Use Exclusion (ac.) 472	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
<b>Subtotal</b>		<b>\$27,022</b>	<b>\$34,392</b>	<b>\$12,283</b>	<b>\$69,948</b>	<b>\$27,022</b>	<b>\$12,454</b>	<b>\$48,841</b>	
<b>Resource Management System (RMS) Acres Treated</b>		<b>2,067</b>							
Brush Management (ac.) 314	505	\$22,386	\$0	\$4,477	\$26,864	\$22,386	\$448	\$24,272	
Conservation Cover (ac.) 327	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Early Successional Habitat Development/Management (ac.) 647	517	\$3,876	\$0	\$775	\$4,651	\$3,876	\$1,163	\$8,773	
Filter Strip (ac.) 393	20	\$696	\$0	\$139	\$835	\$696	\$42	\$871	
Forage Harvest Management (ac.) 511	405	\$1,622	\$0	\$324	\$1,946	\$1,622	\$487	\$3,671	
Grassed Waterway (ac.) 412	5	\$5,064	\$0	\$1,013	\$6,077	\$5,064	\$304	\$6,344	
Pest Management (ac.) 595	604	\$0	\$38,681	\$7,736	\$42,201	\$0	\$12,894	\$19,848	
Restoration and Management of Declining Habitats (ac.) 643	62	\$775	\$0	\$155	\$930	\$775	\$31	\$906	
Riparian Forest Buffer (ac.) 391	83	\$13,477	\$0	\$2,695	\$16,172	\$13,477	\$270	\$14,612	
Shallow Water Management for Wildlife (ac.) 646	71	\$356	\$0	\$71	\$427	\$356	\$0	\$356	
Upland Wildlife Habitat Management (ac.) 645	612	\$0	\$27,547	\$5,509	\$30,054	\$0	\$9,182	\$14,135	
Use Exclusion (ac.) 472	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Wildlife Watering Facility (no.) 648	26	\$9,485	\$0	\$1,897	\$11,382	\$9,485	\$0	\$9,485	
<b>Subtotal</b>		<b>\$57,736</b>	<b>\$66,228</b>	<b>\$24,793</b>	<b>\$141,538</b>	<b>\$57,736</b>	<b>\$24,819</b>	<b>\$103,273</b>	
<b>TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS</b>		<b>802.95</b>	<b>\$84,758</b>	<b>\$100,619</b>	<b>\$37,075</b>	<b>\$211,486</b>	<b>\$84,758</b>	<b>\$37,273</b>	<b>\$152,114</b>

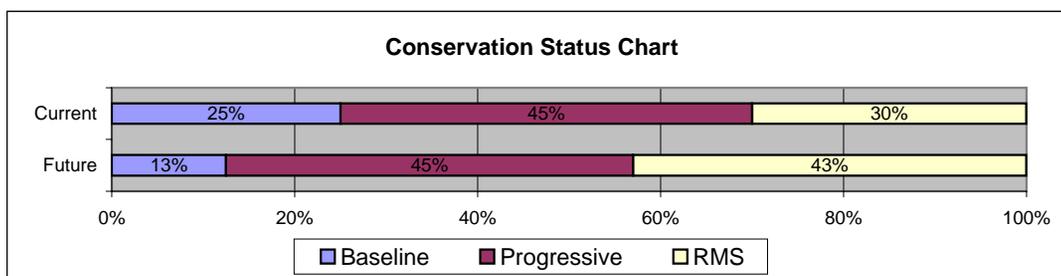


Chart Refers To	
Landuse Type	NON-CULTIVATED CROPLAND
Estimated Participation Rate	28%

Average PV Costs per Ac		
System	Federal	Private
Prog	\$70	\$49
RMS	\$68	\$50

Estimated FTE per Year	0.1
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WATERSHED NAME & CODE		LITTLE OSAGE RIVER - 10290103						LANDUSE ACRES			15,900
LANDUSE TYPE		NON-CULTIVATED CROPLAND						TYPICAL UNIT SIZE ACRES			80
POSSIBLE SOURCES OF FUNDING							ESTIMATED PARTICIPATION				28%
CONSERVATION SYSTEMS BY TREATMENT LEVELS		FUTURE	USDA INVESTMENT					OTHERS			NOTES/COMMENTS
		New Treatment Units	CTA	EQIP	WRP	WHIP	CSP	CRP/ CREP	Fed	State	
<b>Progressive System Acres Treated</b>		<b>994</b>									
Brush Management (ac.) 314	298	X	X								
Conservation Cover (ac.) 327	0	X	X				X				
Critical Area Planting (ac.) 342	30	X	X								
Filter Strip (ac.) 393	20	X					X				
Forage Harvest Management (ac.) 511	199	X									
Grassed Waterway (ac.) 412	5	X	X				X				
Pest Management (ac.) 595	398	X	X								
Shallow Water Management for Wildlife (ac.) 646	30	X	X	X							
Upland Wildlife Habitat Management (ac.) 645	199	X	X								
Use Exclusion (ac.) 472	0	X	X	X							
<b>Resource Management System (RMS) Acres Treated</b>		<b>2,067</b>									
Brush Management (ac.) 314	505	X	X								
Conservation Cover (ac.) 327	0	X	X				X				
Early Successional Habitat Development/Management (ac.) 647	517	X	X								
Filter Strip (ac.) 393	20	X					X				
Forage Harvest Management (ac.) 511	405	X									
Grassed Waterway (ac.) 412	5	X	X				X				
Pest Management (ac.) 595	604	X	X								
Restoration and Management of Declining Habitats (ac.) 643	62	X	X	X							
Riparian Forest Buffer (ac.) 391	83	X	X								
Shallow Water Management for Wildlife (ac.) 646	71	X	X	X							
Upland Wildlife Habitat Management (ac.) 645	612	X	X								
Use Exclusion (ac.) 472	0	X	X	X							
Wildlife Watering Facility (no.) 648	26	X	X								

WATERSHED NAME & CODE		LITTLE OSAGE RIVER - 10290103			LANDUSE ACRES		15,900		
LANDUSE TYPE		NON-CULTIVATED CROPLAND			TYPICAL UNIT SIZE ACRES		80		
ASSESSMENT INFORMATION					ESTIMATED PARTICIPATION		28%		
CONSERVATION SYSTEMS BY TREATMENT LEVELS		CURRENT CONDITIONS	FUTURE CONDITIONS			RESOURCE CONCERNS			
		Total Units	Existing Unchanged Units	New Treatment Units	Total Units	Plant Condition - T & E Plant Species: Declining Species, Species of Concern	Plant Condition - Noxious and Invasive Plants	Plants not adapted or suited	Fish and Wildlife - Inadequate Food
<b>Baseline System</b>		System Rating ->			0	4	4	4	
Total Acreage at Baseline Level		3,975	1,988	0	1,988				
Conservation Cover (ac.) 327		1,391	696	0	696	0	4	4	
Forage Harvest Management (ac.) 511		1,193	596	0	596	0	4	3	
Upland Wildlife Habitat Management (ac.) 645		1,590	795	0	795	1	4	4	
Use Exclusion (ac.) 472		2,584	1,292	0	1,292	0	4	3	
<b>Progressive System</b>		System Rating ->			1	5	5	5	
Total Acreage at Progressive Level		7,155	6,082	994	7,076				
Brush Management (ac.) 314		2,147	1,825	298	2,123	0	4	4	
Conservation Cover (ac.) 327		2,504	2,476	0	2,476	0	4	4	
Critical Area Planting (ac.) 342		215	182	30	212	0	4	4	
Filter Strip (ac.) 393		143	122	20	142	0	4	4	
Forage Harvest Management (ac.) 511		3,578	3,339	199	3,538	0	4	3	
Grassed Waterway (ac.) 412		36	30	5	35	0	4	4	
Pest Management (ac.) 595		2,862	2,433	398	2,830	3	5	4	
Shallow Water Management for Wildlife (ac.) 646		215	182	30	212	0	1	4	
Upland Wildlife Habitat Management (ac.) 645		4,293	4,047	199	4,245	1	4	4	
Use Exclusion (ac.) 472		4,651	4,599	0	4,599	0	4	3	
<b>Resource Management System (RMS)</b>		System Rating ->			1	5	5	5	
Total Acreage at RMS Level		4,770	4,770	2,067	6,837				
Brush Management (ac.) 314		1,908	2,230	505	2,735	0	4	4	
Conservation Cover (ac.) 327		1,670	2,393	0	2,393	0	4	4	
Early Successional Habitat Development/Management (ac.) 647		1,193	1,193	517	1,709	0	1	4	
Filter Strip (ac.) 393		95	117	20	137	0	4	4	
Forage Harvest Management (ac.) 511		2,862	3,697	405	4,102	0	4	3	
Grassed Waterway (ac.) 412		24	29	5	34	0	4	4	
Pest Management (ac.) 595		2,385	2,814	604	3,419	3	5	4	
Restoration and Management of Declining Habitats (ac.) 643		143	143	62	205	0	4	4	
Riparian Forest Buffer (ac.) 391		191	191	83	273	0	4	4	
Shallow Water Management for Wildlife (ac.) 646		239	271	71	342	0	1	4	
Upland Wildlife Habitat Management (ac.) 645		3,816	4,857	612	5,470	1	4	4	
Use Exclusion (ac.) 472		3,101	4,444	0	4,444	0	4	3	
Wildlife Watering Facility (no.) 648		60	60	26	85	0	0	0	
<b>CONSERVATION INVESTMENT INFORMATION</b>									
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>		993.75							
Brush Management (ac.) 314		298	\$13,220	\$0	\$2,644	\$15,864	\$13,220	\$264	\$14,334
Conservation Cover (ac.) 327		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Critical Area Planting (ac.) 342		30	\$7,098	\$0	\$1,420	\$8,518	\$7,098	\$142	\$7,696
Filter Strip (ac.) 393		20	\$696	\$0	\$139	\$835	\$696	\$42	\$871
Forage Harvest Management (ac.) 511		199	\$795	\$0	\$159	\$954	\$795	\$239	\$1,800
Grassed Waterway (ac.) 412		5	\$5,064	\$0	\$1,013	\$6,077	\$5,064	\$304	\$6,344
Pest Management (ac.) 595		398	\$0	\$25,448	\$5,090	\$27,764	\$0	\$8,483	\$13,058
Shallow Water Management for Wildlife (ac.) 646		30	\$149	\$0	\$30	\$179	\$149	\$0	\$149
Upland Wildlife Habitat Management (ac.) 645		199	\$0	\$8,944	\$1,789	\$9,758	\$0	\$2,981	\$4,589
Use Exclusion (ac.) 472		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Subtotal</b>			<b>\$27,022</b>	<b>\$34,392</b>	<b>\$12,283</b>	<b>\$69,948</b>	<b>\$27,022</b>	<b>\$12,454</b>	<b>\$48,841</b>
<b>Resource Management System (RMS) Acres Treated</b>		2067							
Brush Management (ac.) 314		505	\$22,386	\$0	\$4,477	\$26,864	\$22,386	\$448	\$24,272
Conservation Cover (ac.) 327		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Early Successional Habitat Development/Management (ac.) 647		517	\$3,876	\$0	\$775	\$4,651	\$3,876	\$1,163	\$8,773
Filter Strip (ac.) 393		20	\$696	\$0	\$139	\$835	\$696	\$42	\$871
Forage Harvest Management (ac.) 511		405	\$1,622	\$0	\$324	\$1,946	\$1,622	\$487	\$3,671
Grassed Waterway (ac.) 412		5	\$5,064	\$0	\$1,013	\$6,077	\$5,064	\$304	\$6,344
Pest Management (ac.) 595		604	\$0	\$38,681	\$7,736	\$42,201	\$0	\$12,894	\$19,848
Restoration and Management of Declining Habitats (ac.) 643		62	\$775	\$0	\$155	\$930	\$775	\$31	\$906
Riparian Forest Buffer (ac.) 391		83	\$13,477	\$0	\$2,695	\$16,172	\$13,477	\$270	\$14,612
Shallow Water Management for Wildlife (ac.) 646		71	\$356	\$0	\$71	\$427	\$356	\$0	\$356
Upland Wildlife Habitat Management (ac.) 645		612	\$0	\$27,547	\$5,509	\$30,054	\$0	\$9,182	\$14,135
Use Exclusion (ac.) 472		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Wildlife Watering Facility (no.) 648		26	\$9,485	\$0	\$1,897	\$11,382	\$9,485	\$0	\$9,485
<b>Subtotal</b>			<b>\$57,736</b>	<b>\$66,228</b>	<b>\$24,793</b>	<b>\$141,538</b>	<b>\$57,736</b>	<b>\$24,819</b>	<b>\$103,273</b>
<b>TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS</b>		<b>3060.75</b>	<b>\$84,758</b>	<b>\$100,619</b>	<b>\$37,075</b>	<b>\$211,486</b>	<b>\$84,758</b>	<b>\$37,273</b>	<b>\$152,114</b>

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

**Enter Watershed Variables Below**

Watershed Name	<input type="text" value="Little Osage River"/>	Watershed Code	<input type="text" value="10290103"/>	<input type="button" value="Help"/>	
Landuse Type	<input type="text" value="Developed Land"/>	Landuse Acres	<input type="text" value="10,200"/>	Interest Rate	<input type="text" value="6%"/>
Typical Unit Size (ac)	<input type="text" value="5"/>	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>	<b>COMPARE</b>	<input type="text" value="23%"/>	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	80%	8,160	Baseline	75%	6,120	Baseline	60%	6,120	6,120	0
			Progressive	20%	1,632					
			RMS	5%	408					
			<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	10%	1,020	Progressive	90%	918	Progressive	25%	2,550	918	1,632
			RMS	10%	102					
			<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	10%	1,020	RMS	100%	1,020	RMS	15%	1,530	1,020	510
<b>Grand Totals</b>	<b>100%</b>	<b>10,200</b>					<b>100%</b>	<b>10,200</b>	<b>8,058</b>	<b>2,142</b>



# 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)



Code	BASE	PROG	RMS	SHORT NOTE <i>TU = Typical Unit Size</i>	Practice Name
342	x 20.0%	x 20.0%	x 20.0%	PERCENT of TU	Critical Area Planting (ac.) 342
380	0	x 400	x 400	FEET per TU	Windbreak/Shelterbreak Establishment (ft.) 380
382	0	x 1,800	x 1,800	FEET per TU	Fence (ft.) 382
490	10.0%	10.0%	x 10.0%	PERCENT of TU	Forest Site Preparation (ac.) 490
560	x 200	x 200	x 200	FEET per TU	Access Road (ft.) 560
562	0.0%	x 20.0%	x 20.0%	PERCENT of TU	Recreation Area Improvement (ac.) 562
568	0	x 500	x 500	FEET per TU	Recreation Trail & Walkway (ft.) 568
612	x 10.0%	x 10.0%	x 10.0%	PERCENT of TU	Tree/Shrub Establishment (ac.) 612
642	x 1	x 1	x 1	NUMBER per TU	Water Well (no.) 642
422	500	500	500	FEET per TU	Hedgerow Planting (ft.) 422
313	1	1	1	NUMBER per TU	Waste Storage Facility (no.) 313
316	1	1	1	NUMBER per TU	Animal Mortality Facility (no.) 316
317	1	1	1	NUMBER per TU	Composting Facility (no.) 317
359	1	1	1	NUMBER per TU	Waste Treatment Lagoon (no.) 359
634	1	1	1	NUMBER per TU	Manure Transfer (no.) 634
702	1	1	1	NUMBER per TU	Agrichemical Handling Facility (no.) 702
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
449	100.0%	100.0%	100.0%	PERCENT of TU	Irrigation Water Management (ac.) 449



WATERSHED NAME & CODE		LITTLE OSAGE RIVER - 10290103			LANDUSE ACRES		10,200		
LANDUSE TYPE		DEVELOPED LAND			TYPICAL UNIT SIZE ACRES		5		
ASSESSMENT INFORMATION					ESTIMATED PARTICIPATION		23%		
CONSERVATION SYSTEMS BY TREATMENT LEVELS		CURRENT CONDITIONS	FUTURE CONDITIONS			RESOURCE CONCERNS			
		Total Units	Existing Unchanged Units	New Treatment Units	Total Units	Water Quality – Harmful Levels of Heavy Metals in Groundwater	Water Quality – Excessive Nutrients and Organics in	Water Quality – Harmful Levels of Pathogens in Surface Water	Water Quality – Harmful Levels of Petroleum in Surface Water
<b>Baseline System</b>		<b>System Rating -&gt;</b>			<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	
<b>Total Acreage at Baseline Level</b>		<b>8,160</b>	<b>6,120</b>	<b>0</b>	<b>6,120</b>				
Access Road (ft.) 560		326,400	244,800	0	244,800	0	0	0	
Critical Area Planting (ac.) 342		1,632	1,224	0	1,224	1	2	1	
Tree/Shrub Establishment (ac.) 612		816	612	0	612	1	2	3	
Water Well (no.) 642		1,632	1,224	0	1,224	0	0	0	
<b>Progressive System</b>		<b>System Rating -&gt;</b>			<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	
<b>Total Acreage at Progressive Level</b>		<b>1,020</b>	<b>918</b>	<b>1,632</b>	<b>2,550</b>				
Access Road (ft.) 560		40,800	102,000	0	102,000	0	0	0	
Critical Area Planting (ac.) 342		204	510	0	510	1	2	1	
Fence (ft.) 382		367,200	330,480	587,520	918,000	0	0	0	
Recreation Area Improvement (ac.) 562		204	184	326	510	0	0	0	
Recreation Trail and Walkway (ft.) 568		102,000	91,800	163,200	255,000	0	0	0	
Tree/Shrub Establishment (ac.) 612		102	255	0	255	1	2	3	
Water Well (no.) 642		204	510	0	510	0	0	0	
Windbreak/Shelterbelt Establishment (ft.) 380		81,600	73,440	130,560	204,000	0	1	0	
<b>Resource Management System (RMS)</b>		<b>System Rating -&gt;</b>			<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	
<b>Total Acreage at RMS Level</b>		<b>1,020</b>	<b>1,020</b>	<b>510</b>	<b>1,530</b>				
Access Road (ft.) 560		40,800	61,200	0	61,200	0	0	0	
Critical Area Planting (ac.) 342		204	306	0	306	1	2	1	
Fence (ft.) 382		367,200	403,920	146,880	550,800	0	0	0	
Recreation Area Improvement (ac.) 562		204	224	82	306	0	0	0	
Recreation Trail and Walkway (ft.) 568		102,000	112,200	40,800	153,000	0	0	0	
Tree/Shrub Establishment (ac.) 612		102	153	0	153	1	2	3	
Tree/Shrub Site Preparation (ac.) 490		102	102	51	153	0	0	0	
Water Well (no.) 642		204	306	0	306	0	0	0	
Windbreak/Shelterbelt Establishment (ft.) 380		81,600	89,760	32,640	122,400	0	1	0	



WATERSHED NAME & CODE		LITTLE OSAGE RIVER - 10290103						LANDUSE ACRES			10,200	
LANDUSE TYPE		DEVELOPED LAND						TYPICAL UNIT SIZE ACRES			5	
POSSIBLE SOURCES OF FUNDING							ESTIMATED PARTICIPATION				23%	
CONSERVATION SYSTEMS BY TREATMENT LEVELS		FUTURE	USDA INVESTMENT					OTHERS			NOTES/COMMENTS	
		New Treatment Units	CTA	EQIP	WRP	WHIP	CSP	CRP/CREP	Fed	State		District
<b>Progressive System Acres Treated</b>		<b>1,632</b>										
Access Road (ft.) 560	0	X										
Critical Area Planting (ac.) 342	0	X	X									
Fence (ft.) 382	587,520	X	X									
Recreation Area Improvement (ac.) 562	326	X										
Recreation Trail and Walkway (ft.) 568	163,200	X										
Tree/Shrub Establishment (ac.) 612	0	X	X	X								
Water Well (no.) 642	0	X	X									
Windbreak/Shelterbelt Establishment (ft.) 380	130,560	X	X									
<b>Resource Management System (RMS) Acres Treated</b>		<b>510</b>										
Access Road (ft.) 560	0	X										
Critical Area Planting (ac.) 342	0	X	X									
Fence (ft.) 382	146,880	X	X									
Recreation Area Improvement (ac.) 562	82	X										
Recreation Trail and Walkway (ft.) 568	40,800	X										
Tree/Shrub Establishment (ac.) 612	0	X	X	X								
Tree/Shrub Site Preparation (ac.) 490	51	X	X	X								
Water Well (no.) 642	0	X	X									
Windbreak/Shelterbelt Establishment (ft.) 380	32,640	X	X									

WATERSHED NAME & CODE		LITTLE OSAGE RIVER - 10290103			LANDUSE ACRES		10,200		
LANDUSE TYPE		DEVELOPED LAND			TYPICAL UNIT SIZE ACRES		5		
ASSESSMENT INFORMATION					ESTIMATED PARTICIPATION		23%		
CONSERVATION SYSTEMS BY TREATMENT LEVELS		CURRENT CONDITIONS	FUTURE CONDITIONS			RESOURCE CONCERNS			
		Total Units	Existing Unchanged Units	New Treatment Units	Total Units	Water Quality – Harmful Levels of Heavy Metals in Groundwater	Water Quality – Excessive Nutrients and Organics in Surface Water	Water Quality – Harmful Levels of Pathogens in Surface Water	Water Quality – Harmful Levels of Petroleum in Surface Water
<b>Baseline System</b>		System Rating ->			0	1	1	0	
<b>Total Acreage at Baseline Level</b>		<b>8,160</b>	<b>6,120</b>	<b>0</b>	<b>6,120</b>				
Access Road (ft.) 560		326,400	244,800	0	244,800	0	0	-1	
Critical Area Planting (ac.) 342		1,632	1,224	0	1,224	1	2	1	
Tree/Shrub Establishment (ac.) 612		816	612	0	612	1	2	3	
Water Well (no.) 642		1,632	1,224	0	1,224	0	0	0	
<b>Progressive System</b>		System Rating ->			0	2	1	0	
<b>Total Acreage at Progressive Level</b>		<b>1,020</b>	<b>918</b>	<b>1,632</b>	<b>2,550</b>				
Access Road (ft.) 560		40,800	102,000	0	102,000	0	0	-1	
Critical Area Planting (ac.) 342		204	510	0	510	1	2	1	
Fence (ft.) 382		367,200	330,480	587,520	918,000	0	0	0	
Recreation Area Improvement (ac.) 562		204	184	326	510	0	0	0	
Recreation Trail and Walkway (ft.) 568		102,000	91,800	163,200	255,000	0	0	0	
Tree/Shrub Establishment (ac.) 612		102	255	0	255	1	2	3	
Water Well (no.) 642		204	510	0	510	0	0	0	
Windbreak/Shelterbelt Establishment (ft.) 380		81,600	73,440	130,560	204,000	0	1	0	
<b>Resource Management System (RMS)</b>		System Rating ->			0	2	1	0	
<b>Total Acreage at RMS Level</b>		<b>1,020</b>	<b>1,020</b>	<b>510</b>	<b>1,530</b>				
Access Road (ft.) 560		40,800	61,200	0	61,200	0	0	-1	
Critical Area Planting (ac.) 342		204	306	0	306	1	2	1	
Fence (ft.) 382		367,200	403,920	146,880	550,800	0	0	0	
Recreation Area Improvement (ac.) 562		204	224	82	306	0	0	0	
Recreation Trail and Walkway (ft.) 568		102,000	112,200	40,800	153,000	0	0	0	
Tree/Shrub Establishment (ac.) 612		102	153	0	153	1	2	3	
Tree/Shrub Site Preparation (ac.) 490		102	102	51	153	0	0	0	
Water Well (no.) 642		204	306	0	306	0	0	0	
Windbreak/Shelterbelt Establishment (ft.) 380		81,600	89,760	32,640	122,400	0	1	0	
<b>CONSERVATION INVESTMENT INFORMATION</b>									
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>1632</b>							
Access Road (ft.) 560		0	\$0	\$0	\$0	\$0	\$0	\$0	
Critical Area Planting (ac.) 342		0	\$0	\$0	\$0	\$0	\$0	\$0	
Fence (ft.) 382		587,520	\$428,890	\$0	\$85,778	\$514,668	\$428,890	\$42,889	
Recreation Area Improvement (ac.) 562		326	\$81,600	\$0	\$16,320	\$97,920	\$81,600	\$8,160	
Recreation Trail and Walkway (ft.) 568		163,200	\$1,632,000	\$0	\$326,400	\$1,958,400	\$1,632,000	\$32,640	
Tree/Shrub Establishment (ac.) 612		0	\$0	\$0	\$0	\$0	\$0	\$0	
Water Well (no.) 642		0	\$0	\$0	\$0	\$0	\$0	\$0	
Windbreak/Shelterbelt Establishment (ft.) 380		130,560	\$29,376	\$0	\$5,875	\$35,251	\$29,376	\$1,175	
<b>Subtotal</b>			<b>\$2,171,866</b>	<b>\$0</b>	<b>\$434,373</b>	<b>\$2,606,239</b>	<b>\$2,171,866</b>	<b>\$84,864</b>	
<b>Resource Management System (RMS) Acres Treated</b>		<b>510</b>							
Access Road (ft.) 560		0	\$0	\$0	\$0	\$0	\$0	\$0	
Critical Area Planting (ac.) 342		0	\$0	\$0	\$0	\$0	\$0	\$0	
Fence (ft.) 382		146,880	\$107,222	\$0	\$21,444	\$128,667	\$107,222	\$10,722	
Recreation Area Improvement (ac.) 562		82	\$20,400	\$0	\$4,080	\$24,480	\$20,400	\$2,040	
Recreation Trail and Walkway (ft.) 568		40,800	\$408,000	\$0	\$81,600	\$489,600	\$408,000	\$81,600	
Tree/Shrub Establishment (ac.) 612		0	\$0	\$0	\$0	\$0	\$0	\$0	
Tree/Shrub Site Preparation (ac.) 490		51	\$0	\$6,853	\$1,371	\$7,477	\$0	\$2,284	
Water Well (no.) 642		0	\$0	\$0	\$0	\$0	\$0	\$0	
Windbreak/Shelterbelt Establishment (ft.) 380		32,640	\$7,344	\$0	\$1,469	\$8,813	\$7,344	\$294	
<b>Subtotal</b>			<b>\$542,966</b>	<b>\$6,853</b>	<b>\$109,964</b>	<b>\$659,036</b>	<b>\$542,966</b>	<b>\$23,500</b>	
<b>TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS</b>		<b>2142</b>	<b>\$2,714,832</b>	<b>\$6,853</b>	<b>\$544,337</b>	<b>\$3,265,275</b>	<b>\$2,714,832</b>	<b>\$108,364</b>	

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

**Enter Watershed Variables Below**

Watershed Name	<input type="text" value="Little Osage River"/>	Watershed Code	<input type="text" value="10290103"/>	<input type="button" value="Help"/>	
Landuse Type	<input type="text" value="Pastureland"/>	Landuse Acres	<input type="text" value="87,900"/>	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>	<b>COMPARE</b>	<input type="text" value="28%"/>	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	55%	48,345	Baseline	55%	26,590	Baseline	30%	26,590	26,590	0
			Progressive	40%	19,338					
			RMS	5%	2,417					
			<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	40%	35,160	Progressive	95%	33,402	Progressive	60%	52,740	33,402	19,338
			RMS	5%	1,758					
			<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%	4,395	RMS	100%	4,395	RMS	10%	8,570	4,395	4,175
<b>Grand Totals</b>	<b>100%</b>	<b>87,900</b>					<b>100%</b>	<b>87,900</b>	<b>64,387</b>	<b>23,513</b>



# 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
314	0.0%	x 10.0%	x 5.0%	PERCENT of TU	Brush Management (ac.) 314
378	x 1	x 2	x 2	NUMBER per TU	Pond (no.) 378
382	x 6,600	x 10,100	x 14,600	FEET per TU	Fence (ft.) 382
391	0.0%	0.0%	x 5.0%	PERCENT of TU	Riparian Forest Buffer (ac.) 391
410	0	x 1	x 1	NUMBER per TU	Grade Stabilization Structure (no.) 410
472	0.0%	0.0%	x 5.0%	PERCENT of TU	Use Exclusion (ac.) 472
490	10.0%	10.0%	x 5.0%	PERCENT of TU	Forest Site Preparation (ac.) 490
512	0.0%	x 30.0%	x 25.0%	PERCENT of TU	Pasture & Hayland Planting (ac.) 512
516	0	x 1,000	x 3,000	FEET per TU	Pipeline (ft.) 516
528	0.0%	x 33.0%	x 100.0%	PERCENT of TU	Prescribed Grazing (ac.) 528
590	0.0%	0.0%	x 95.0%	PERCENT of TU	Nutrient Management (ac.) 590
595	0.0%	0.0%	x 100.0%	PERCENT of TU	Pest Management (ac.) 595
612	10.0%	10.0%	x 5.0%	PERCENT of TU	Tree/Shrub Establishment (ac.) 612
614	0	x 4	x 8	NUMBER per TU	Watering Facility (no.) 614
633	0.0%	0.0%	x 5.0%	PERCENT of TU	Waste Utilization (ac.) 633
642	0	0	x 1	NUMBER per TU	Water Well (no.) 642
574	0	0	1	NUMBER per TU	Spring Development (no.) 574
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		LITTLE OSAGE RIVER - 10290103			LANDUSE ACRES		87,900		
LANDUSE TYPE		PASTURELAND			TYPICAL UNIT SIZE ACRES		120		
ASSESSMENT INFORMATION					ESTIMATED PARTICIPATION		28%		
		CURRENT CONDITIONS	FUTURE CONDITIONS			RESOURCE CONCERNS			
CONSERVATION SYSTEMS BY TREATMENT LEVELS		Total Units	Existing Unchanged Units	New Treatment Units	Total Units	Water Quality – Excessive Nutrients and Organics in	Plant Condition – Productivity, Health and Vigor	Plant Condition – Forage Quality and Palatability	Domestic Animals – Inadequate Stock Water
<b>Baseline System</b>		<b>System Rating -&gt;</b>			<b>1</b>	<b>1</b>	<b>0</b>	<b>3</b>	
<b>Total Acreage at Baseline Level</b>		<b>48,345</b>	<b>26,590</b>	<b>0</b>	<b>26,590</b>				
Fence (ft.) 382		2,658,975	1,462,436	0	1,462,436	0	0	0	
Pond (no.) 378		403	222	0	222	2	2	0	
<b>Progressive System</b>		<b>System Rating -&gt;</b>			<b>2</b>	<b>5</b>	<b>4</b>	<b>5</b>	
<b>Total Acreage at Progressive Level</b>		<b>35,160</b>	<b>33,402</b>	<b>19,338</b>	<b>52,740</b>				
Brush Management (ac.) 314		3,516	3,340	1,934	5,274	0	3	4	
Fence (ft.) 382		2,959,300	3,874,925	564,025	4,438,950	0	0	0	
Grade Stabilization Structure (no.) 410		293	278	161	440	0	0	0	
Pasture and Hay Planting (ac.) 512		10,548	10,021	5,801	15,822	2	5	5	
Pipeline (ft.) 516		293,000	278,350	161,150	439,500	0	2	0	
Pond (no.) 378		586	718	161	879	2	2	0	
Prescribed Grazing (ac.) 528		11,603	11,023	6,382	17,404	1	5	4	
Watering Facility (no.) 614		1,172	1,113	645	1,758	0	2	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>4,395</b>	<b>4,395</b>	<b>4,175</b>	<b>8,570</b>				
Brush Management (ac.) 314		220	308	121	429	0	3	4	
Fence (ft.) 382		534,725	815,639	227,075	1,042,714	0	0	0	
Grade Stabilization Structure (no.) 410		37	51	20	71	0	0	0	
Nutrient Management (ac.) 590		4,175	4,175	3,966	8,142	5	3	4	
Pasture and Hay Planting (ac.) 512		1,099	1,538	604	2,143	2	5	5	
Pest Management (ac.) 595		4,395	4,395	4,175	8,570	0	5	4	
Pipeline (ft.) 516		109,875	124,525	89,731	214,256	0	2	0	
Pond (no.) 378		73	123	20	143	2	2	0	
Prescribed Grazing (ac.) 528		4,395	4,975	3,595	8,570	1	5	4	
Riparian Forest Buffer (ac.) 391		220	220	209	429	5	4	4	
Tree/Shrub Establishment (ac.) 612		220	220	209	429	2	5	5	
Tree/Shrub Site Preparation (ac.) 490		220	220	209	429	0	5	0	
Use Exclusion (ac.) 472		220	220	209	429	2	4	4	
Waste Utilization (ac.) 633		220	220	209	429	2	3	4	
Water Well (no.) 642		37	37	35	71	0	1	0	
Watering Facility (no.) 614		293	352	220	571	0	2	0	



WATERSHED NAME & CODE		LITTLE OSAGE RIVER - 10290103						LANDUSE ACRES			87,900	
LANDUSE TYPE		PASTURELAND						TYPICAL UNIT SIZE ACRES			120	
POSSIBLE SOURCES OF FUNDING							ESTIMATED PARTICIPATION				28%	
CONSERVATION SYSTEMS BY TREATMENT LEVELS		FUTURE	USDA INVESTMENT					OTHERS			NOTES/COMMENTS	
		New Treatment Units	CTA	EQIP	WRP	WHIP	CSP	CRP/ CREP	Fed	State		District
<b>Progressive System Acres Treated</b>		<b>19,338</b>										
Brush Management (ac.) 314	1,934	X	X									
Fence (ft.) 382	564,025	X	X									
Grade Stabilization Structure (no.) 410	161	X	X									
Pasture and Hay Planting (ac.) 512	5,801	X	X									
Pipeline (ft.) 516	161,150	X	X									
Pond (no.) 378	161	X										
Prescribed Grazing (ac.) 528	6,382	X	X									
Watering Facility (no.) 614	645	X	X									
<b>Resource Management System (RMS) Acres Treated</b>		<b>4,175</b>										
Brush Management (ac.) 314	121	X	X									
Fence (ft.) 382	227,075	X	X									
Grade Stabilization Structure (no.) 410	20	X	X									
Nutrient Management (ac.) 590	3,966	X	X									
Pasture and Hay Planting (ac.) 512	604	X	X									
Pest Management (ac.) 595	4,175	X	X									
Pipeline (ft.) 516	89,731	X	X									
Pond (no.) 378	20	X										
Prescribed Grazing (ac.) 528	3,595	X	X									
Riparian Forest Buffer (ac.) 391	209	X	X									
Tree/Shrub Establishment (ac.) 612	209	X	X	X								
Tree/Shrub Site Preparation (ac.) 490	209	X	X	X								
Use Exclusion (ac.) 472	209	X	X	X								
Waste Utilization (ac.) 633	209	X	X									
Water Well (no.) 642	35	X	X									
Watering Facility (no.) 614	220	X	X									

WATERSHED NAME & CODE		LITTLE OSAGE RIVER - 10290103				LANDUSE ACRES		87,900	
LANDUSE TYPE		PASTURELAND				TYPICAL UNIT SIZE ACRES		120	
ASSESSMENT INFORMATION						ESTIMATED PARTICIPATION		28%	
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 - Productivity, Health and Vigor	Plant Condition - Forage Quality and Palatability	Domestic Animals - Inadequate Stock Water
<b>Baseline System</b>		System Rating ->				1	1	0	3
Total Acreage at Baseline Level		48,345	26,590	0	26,590				
Fence (ft.) 382		2,658,975	1,462,436	0	1,462,436	0	0	0	0
Pond (no.) 378		403	222	0	222	2	2	0	5
<b>Progressive System</b>		System Rating ->				2	5	4	5
Total Acreage at Progressive Level		35,160	33,402	19,338	52,740				
Brush Management (ac.) 314		3,516	3,340	1,934	5,274	0	3	4	0
Fence (ft.) 382		2,959,300	3,874,925	564,025	4,438,950	0	0	0	0
Grade Stabilization Structure (no.) 410		293	278	161	440	0	0	0	0
Pasture and Hay Planting (ac.) 512		10,548	10,021	5,801	15,822	2	5	5	0
Pipeline (ft.) 516		293,000	278,350	161,150	439,500	0	2	0	5
Pond (no.) 378		586	718	161	879	2	2	0	5
Prescribed Grazing (ac.) 528		11,603	11,023	6,382	17,404	1	5	4	0
Watering Facility (no.) 614		1,172	1,113	645	1,758	0	2	0	5
<b>Resource Management System (RMS)</b>		System Rating ->				5	5	5	5
Total Acreage at RMS Level		4,395	4,395	4,175	8,570				
Brush Management (ac.) 314		220	308	121	429	0	3	4	0
Fence (ft.) 382		534,725	815,639	227,075	1,042,714	0	0	0	0
Grade Stabilization Structure (no.) 410		37	51	20	71	0	0	0	0
Nutrient Management (ac.) 590		4,175	4,175	3,966	8,142	5	3	4	0
Pasture and Hay Planting (ac.) 512		1,099	1,538	604	2,143	2	5	5	0
Pest Management (ac.) 595		4,395	4,395	4,175	8,570	0	5	4	0
Pipeline (ft.) 516		109,875	124,525	89,731	214,256	0	2	0	5
Pond (no.) 378		73	123	20	143	2	2	0	5
Prescribed Grazing (ac.) 528		4,395	4,975	3,595	8,570	1	5	4	0
Riparian Forest Buffer (ac.) 391		220	220	209	429	5	4	4	0
Tree/Shrub Establishment (ac.) 612		220	220	209	429	2	5	5	0
Tree/Shrub Site Preparation (ac.) 490		220	220	209	429	0	5	0	0
Use Exclusion (ac.) 472		220	220	209	429	2	4	4	1
Waste Utilization (ac.) 633		220	220	209	429	2	3	4	0
Water Well (no.) 642		37	37	35	71	0	1	0	5
Watering Facility (no.) 614		293	352	220	571	0	2	0	5
<b>CONSERVATION INVESTMENT INFORMATION</b>									
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>		19338							
Brush Management (ac.) 314		1,934	\$85,754	\$0	\$17,151	\$102,905	\$85,754	\$1,715	\$92,979
Fence (ft.) 382		564,025	\$411,738	\$0	\$82,348	\$494,086	\$411,738	\$41,174	\$585,177
Grade Stabilization Structure (no.) 410		161	\$820,241	\$0	\$164,048	\$984,290	\$820,241	\$49,214	\$1,027,551
Pasture and Hay Planting (ac.) 512		5,801	\$392,030	\$0	\$78,406	\$470,436	\$392,030	\$15,681	\$458,084
Pipeline (ft.) 516		161,150	\$173,236	\$0	\$34,647	\$207,884	\$173,236	\$0	\$173,236
Pond (no.) 378		161	\$483,450	\$0	\$96,690	\$580,140	\$483,450	\$19,338	\$564,909
Prescribed Grazing (ac.) 528		6,382	\$28,079	\$0	\$5,616	\$33,695	\$28,079	\$0	\$28,079
Watering Facility (no.) 614		645	\$292,768	\$0	\$58,554	\$351,321	\$292,768	\$11,711	\$342,097
<b>Subtotal</b>			<b>\$2,687,296</b>	<b>\$0</b>	<b>\$537,459</b>	<b>\$3,224,756</b>	<b>\$2,687,296</b>	<b>\$138,833</b>	<b>\$3,272,113</b>
<b>Resource Management System (RMS) Acres Treated</b>		4175.25							
Brush Management (ac.) 314		121	\$5,360	\$0	\$1,072	\$6,432	\$5,360	\$107	\$5,811
Fence (ft.) 382		227,075	\$165,765	\$0	\$33,153	\$198,918	\$165,765	\$16,576	\$235,591
Grade Stabilization Structure (no.) 410		20	\$102,530	\$0	\$20,506	\$123,036	\$102,530	\$6,152	\$128,444
Nutrient Management (ac.) 590		3,966	\$0	\$150,766	\$30,153	\$164,487	\$0	\$50,255	\$77,361
Pasture and Hay Planting (ac.) 512		604	\$40,836	\$0	\$8,167	\$49,004	\$40,836	\$1,633	\$47,717
Pest Management (ac.) 595		4,175	\$0	\$267,300	\$53,460	\$291,625	\$0	\$89,100	\$137,156
Pipeline (ft.) 516		89,731	\$96,461	\$0	\$19,292	\$115,753	\$96,461	\$0	\$96,461
Pond (no.) 378		20	\$60,431	\$0	\$12,086	\$72,518	\$60,431	\$2,417	\$70,614
Prescribed Grazing (ac.) 528		3,595	\$15,818	\$0	\$3,164	\$18,982	\$15,818	\$0	\$15,818
Riparian Forest Buffer (ac.) 391		209	\$34,028	\$0	\$6,806	\$40,834	\$34,028	\$681	\$36,895
Tree/Shrub Establishment (ac.) 612		209	\$34,028	\$0	\$6,806	\$40,834	\$34,028	\$0	\$34,028
Tree/Shrub Site Preparation (ac.) 490		209	\$0	\$28,051	\$5,610	\$30,604	\$0	\$9,350	\$14,394
Use Exclusion (ac.) 472		209	\$522	\$0	\$104	\$626	\$522	\$31	\$654
Waste Utilization (ac.) 633		209	\$0	\$9,394	\$1,879	\$10,249	\$0	\$3,131	\$4,820
Water Well (no.) 642		35	\$52,045	\$0	\$10,409	\$62,454	\$52,045	\$2,082	\$60,815
Watering Facility (no.) 614		220	\$99,807	\$0	\$19,961	\$119,769	\$99,807	\$3,992	\$116,624
<b>Subtotal</b>			<b>\$707,633</b>	<b>\$455,511</b>	<b>\$232,629</b>	<b>\$1,346,124</b>	<b>\$707,633</b>	<b>\$185,509</b>	<b>\$1,083,203</b>
<b>TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS</b>		23513.25	<b>\$3,394,929</b>	<b>\$455,511</b>	<b>\$770,088</b>	<b>\$4,570,880</b>	<b>\$3,394,929</b>	<b>\$324,343</b>	<b>\$4,355,315</b>

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

**Enter Watershed Variables Below**

Watershed Name	<input type="text" value="Little Osage River"/>	Watershed Code	<input type="text" value="10290103"/>	<input type="button" value="Help"/>	
Landuse Type	<input type="text" value="Forestland"/>	Landuse Acres	<input type="text" value="43,300"/>	Interest Rate	<input type="text" value="6%"/>
Typical Unit Size (ac)	<input type="text" value="40"/>	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>	<b>COMPARE</b>	<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	83%	35,939	Baseline	95%	34,142	Baseline	79%	34,142	34,142	0
			Progressive	4%	1,438					
			RMS	1%	359					
			<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	15%	6,495	Progressive	94%	6,105	Progressive	17%	7,543	6,105	1,438
			RMS	6%	390					
			<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	2%	866	RMS	100%	866	RMS	4%	1,615	866	749
<b>Grand Totals</b>	<b>100%</b>	<b>43,300</b>					<b>100%</b>	<b>43,300</b>	<b>41,113</b>	<b>2,187</b>



# DOCUMENTATION SECTION

<b>PRACTICE FACTOR SHEET</b> 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)							
Code	BASE	PROG	RMS	SHORT NOTE <i>TU = Typical Unit Size</i>	Practice Name		
381	0.0%	0.0%	x 5.0%	PERCENT of TU	Silvopasture Establishment 381		
382	x 2,000	x 2,000	x 2,000	FEET per TU	Fence (ft.) 382		
391	x 2.0%	x 4.0%	x 7.0%	PERCENT of TU	Riparian Forest Buffer (ac.) 391		
409	0.0%	x 10.0%	x 15.0%	PERCENT of TU	Prescribed Forestry (ac.) 409		
472	0.0%	x 50.0%	x 80.0%	PERCENT of TU	Use Exclusion (ac.) 472		
490	0.0%	0.0%	x 7.0%	PERCENT of TU	Forest Site Preparation (ac.) 490		
578	0	x 450	x 450	FEET per TU	Stream Crossing 578		
595	0.0%	0.0%	x 100.0%	PERCENT of TU	Pest Management (ac.) 595		
612	0.0%	0.0%	x 7.0%	PERCENT of TU	Tree/Shrub Establishment (ac.) 612		
644	0.0%	0.0%	x 10.0%	PERCENT of TU	Wetland Wildlife Habitat Management (ac.) 644		
645	0.0%	x 40.0%	x 55.0%	PERCENT of TU	Upland Wildlife Habitat Management (ac.) 645		
655	0.0%	0.0%	x 5.0%	PERCENT of TU	Forest Trails & Landings (ac.) 655		
660	0.0%	0.0%	x 80.0%	PERCENT of TU	Tree/Shrub Pruning (ac.) 660		
666	0.0%	x 50.0%	x 80.0%	PERCENT of TU	Forest Stand Improvement (ac.) 666		
643	0.0%	0.0%	0.0%	PERCENT of TU	Restoration and Management of Declining Habitats (ac.) 643		
647	0.0%	0.0%	0.0%	PERCENT of TU	Early Successional Habitat Development/Management (ac.) 647		
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		
449	100.0%	100.0%	100.0%	PERCENT of TU	Irrigation Water Management (ac.) 449		



WATERSHED NAME & CODE		LITTLE OSAGE RIVER - 10290103			LANDUSE ACRES		43,300		
LANDUSE TYPE		FORESTLAND			TYPICAL UNIT SIZE ACRES		40		
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	Plant Condition – Productivity, Health and Vigor	Fish and Wildlife – Habitat Fragmentation
<b>Baseline System</b>		<b>System Rating -&gt;</b>			<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	
<b>Total Acreage at Baseline Level</b>		<b>35,939</b>	<b>34,142</b>	<b>0</b>	<b>34,142</b>				
Fence (ft.) 382		1,796,950	1,707,103	0	1,707,103	0	0	0	-2
Riparian Forest Buffer (ac.) 391		719	683	0	683	4	3	4	4
<b>Progressive System</b>		<b>System Rating -&gt;</b>			<b>4</b>	<b>3</b>	<b>5</b>	<b>3</b>	
<b>Total Acreage at Progressive Level</b>		<b>6,495</b>	<b>6,105</b>	<b>1,438</b>	<b>7,543</b>				
Fence (ft.) 382		324,750	377,143	0	377,143	0	0	0	-2
Forest Stand Improvement (ac.) 666		3,248	3,053	719	3,771	0	3	5	2
Prescribed Forestry (ac.) 409		650	611	144	754	5	2	5	4
Riparian Forest Buffer (ac.) 391		260	273	29	302	4	3	4	4
Stream Crossing (no.) 578		73,069	68,685	16,173	84,857	0	0	0	0
Upland Wildlife Habitat Management (ac.) 645		2,598	2,442	575	3,017	1	1	4	4
Use Exclusion (ac.) 472		3,248	3,053	719	3,771	2	1	4	3
<b>Resource Management System (RMS)</b>		<b>System Rating -&gt;</b>			<b>4</b>	<b>3</b>	<b>5</b>	<b>4</b>	
<b>Total Acreage at RMS Level</b>		<b>866</b>	<b>866</b>	<b>749</b>	<b>1,615</b>				
Fence (ft.) 382		43,300	80,755	0	80,755	0	0	0	-2
Forest Stand Improvement (ac.) 666		693	888	404	1,292	0	3	5	2
Forest Trails and Landings (ac.) 655		43	43	37	81	0	0	2	-1
Pest Management (ac.) 595		866	866	749	1,615	0	0	5	0
Prescribed Forestry (ac.) 409		130	169	73	242	5	2	5	4
Riparian Forest Buffer (ac.) 391		61	83	30	113	4	3	4	4
Silvopasture Establishment (ac.) 381		43	43	37	81	0	2	0	2
Stream Crossing (no.) 578		9,743	14,127	4,043	18,170	0	0	0	0
Tree/Shrub Establishment (ac.) 612		61	61	52	113	0	-1	5	4
Tree/Shrub Pruning (ac.) 660		693	693	599	1,292	0	0	5	0
Tree/Shrub Site Preparation (ac.) 490		61	61	52	113	0	0	5	0
Upland Wildlife Habitat Management (ac.) 645		476	632	256	888	1	1	4	4
Use Exclusion (ac.) 472		693	888	404	1,292	2	1	4	3
Wetland Wildlife Habitat Management (ac.) 644		87	87	75	162	0	1	4	4



WATERSHED NAME & CODE		LITTLE OSAGE RIVER - 10290103						LANDUSE ACRES			43,300	
LANDUSE TYPE		FORESTLAND						TYPICAL UNIT SIZE ACRES			40	
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		District
<b>Progressive System Acres Treated</b>		<b>1,438</b>										
Fence (ft.) 382	0	X	X									
Forest Stand Improvement (ac.) 666	719	X	X									
Prescribed Forestry (ac.) 409	144	X	X									
Riparian Forest Buffer (ac.) 391	29	X	X									
Stream Crossing (no.) 578	16,173	X	X									
Upland Wildlife Habitat Management (ac.) 645	575	X	X									
Use Exclusion (ac.) 472	719	X	X	X								
<b>Resource Management System (RMS) Acres Treated</b>		<b>749</b>										
Fence (ft.) 382	0	X	X									
Forest Stand Improvement (ac.) 666	404	X	X									
Forest Trails and Landings (ac.) 655	37	X										
Pest Management (ac.) 595	749	X	X									
Prescribed Forestry (ac.) 409	73	X	X									
Riparian Forest Buffer (ac.) 391	30	X	X									
Silvopasture Establishment (ac.) 381	37	X	X									
Stream Crossing (no.) 578	4,043	X	X									
Tree/Shrub Establishment (ac.) 612	52	X	X	X								
Tree/Shrub Pruning (ac.) 660	599	X										
Tree/Shrub Site Preparation (ac.) 490	52	X	X	X								
Upland Wildlife Habitat Management (ac.) 645	256	X	X									
Use Exclusion (ac.) 472	404	X	X	X								
Wetland Wildlife Habitat Management (ac.) 644	75	X	X	X								

WATERSHED NAME & CODE		LITTLE OSAGE RIVER - 10290103				LANDUSE ACRES		43,300	
LANDUSE TYPE		FORESTLAND				TYPICAL UNIT SIZE ACRES		40	
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	Plant Condition – Productivity, Health and Vigor	Fish and Wildlife – Habitat Fragmentation
<b>Baseline System</b>		System Rating ->				2	1	2	1
<b>Total Acreage at Baseline Level</b>		<b>35,939</b>	<b>34,142</b>	<b>0</b>	<b>34,142</b>				
Fence (ft.) 382		1,796,950	1,707,103	0	1,707,103	0	0	0	-2
Riparian Forest Buffer (ac.) 391		719	683	0	683	4	3	4	4
<b>Progressive System</b>		System Rating ->				4	3	5	3
<b>Total Acreage at Progressive Level</b>		<b>6,495</b>	<b>6,105</b>	<b>1,438</b>	<b>7,543</b>				
Fence (ft.) 382		324,750	377,143	0	377,143	0	0	0	-2
Forest Stand Improvement (ac.) 666		3,248	3,053	719	3,771	0	3	5	2
Prescribed Forestry (ac.) 409		650	611	144	754	5	2	5	4
Riparian Forest Buffer (ac.) 391		260	273	29	302	4	3	4	4
Stream Crossing (no.) 578		73,069	68,685	16,173	84,857	0	0	0	0
Upland Wildlife Habitat Management (ac.) 645		2,598	2,442	575	3,017	1	1	4	4
Use Exclusion (ac.) 472		3,248	3,053	719	3,771	2	1	4	3
<b>Resource Management System (RMS)</b>		System Rating ->				4	3	5	4
<b>Total Acreage at RMS Level</b>		<b>866</b>	<b>866</b>	<b>749</b>	<b>1,615</b>				
Fence (ft.) 382		43,300	80,755	0	80,755	0	0	0	-2
Forest Stand Improvement (ac.) 666		693	888	404	1,292	0	3	5	2
Forest Trails and Landings (ac.) 655		43	43	37	81	0	0	2	-1
Pest Management (ac.) 595		866	866	749	1,615	0	0	5	0
Prescribed Forestry (ac.) 409		130	169	73	242	5	2	5	4
Riparian Forest Buffer (ac.) 391		61	83	30	113	4	3	4	4
Silvopasture Establishment (ac.) 381		43	43	37	81	0	2	0	2
Stream Crossing (no.) 578		9,743	14,127	4,043	18,170	0	0	0	0
Tree/Shrub Establishment (ac.) 612		61	61	52	113	0	-1	5	4
Tree/Shrub Pruning (ac.) 660		693	693	599	1,292	0	0	5	0
Tree/Shrub Site Preparation (ac.) 490		61	61	52	113	0	0	5	0
Upland Wildlife Habitat Management (ac.) 645		476	632	256	888	1	1	4	4
Use Exclusion (ac.) 472		693	888	404	1,292	2	1	4	3
Wetland Wildlife Habitat Management (ac.) 644		87	87	75	162	0	1	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
<b>Progressive System Acres Treated</b>		<b>1437.56</b>							
Fence (ft.) 382		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Forest Stand Improvement (ac.) 666		719	\$32,176	\$0	\$6,435	\$38,611	\$32,176	\$644	\$34,887
Prescribed Forestry (ac.) 409		144	\$3,594	\$0	\$719	\$4,313	\$3,594	\$0	\$3,594
Riparian Forest Buffer (ac.) 391		29	\$4,686	\$0	\$937	\$5,624	\$4,686	\$94	\$5,081
Stream Crossing (no.) 578		16,173	\$15,118,666	\$0	\$3,023,733	\$18,142,399	\$15,118,666	\$302,373	\$16,392,372
Upland Wildlife Habitat Management (ac.) 645		575	\$0	\$25,876	\$5,175	\$28,231	\$0	\$8,625	\$13,277
Use Exclusion (ac.) 472		719	\$1,797	\$0	\$359	\$2,156	\$1,797	\$108	\$2,251
<b>Subtotal</b>			<b>\$15,160,919</b>	<b>\$25,876</b>	<b>\$3,037,359</b>	<b>\$18,221,334</b>	<b>\$15,160,919</b>	<b>\$311,844</b>	<b>\$16,451,463</b>
<b>Resource Management System (RMS) Acres Treated</b>		<b>749.09</b>							
Fence (ft.) 382		0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Forest Stand Improvement (ac.) 666		404	\$18,104	\$0	\$3,621	\$21,725	\$18,104	\$362	\$19,629
Forest Trails and Landings (ac.) 655		37	\$22,314	\$0	\$4,463	\$26,777	\$22,314	\$893	\$26,074
Pest Management (ac.) 595		749	\$0	\$47,957	\$9,591	\$52,321	\$0	\$15,986	\$24,607
Prescribed Forestry (ac.) 409		73	\$1,835	\$0	\$367	\$2,202	\$1,835	\$0	\$1,835
Riparian Forest Buffer (ac.) 391		30	\$4,835	\$0	\$967	\$5,802	\$4,835	\$97	\$5,242
Silvopasture Establishment (ac.) 381		37	\$2,809	\$0	\$562	\$3,371	\$2,809	\$112	\$3,282
Stream Crossing (no.) 578		4,043	\$3,779,666	\$0	\$755,933	\$4,535,600	\$3,779,666	\$75,593	\$4,098,093
Tree/Shrub Establishment (ac.) 612		52	\$8,547	\$0	\$1,709	\$10,257	\$8,547	\$0	\$8,547
Tree/Shrub Pruning (ac.) 660		599	\$67,418	\$0	\$13,484	\$80,902	\$67,418	\$2,697	\$78,778
Tree/Shrub Site Preparation (ac.) 490		52	\$0	\$7,046	\$1,409	\$7,687	\$0	\$2,349	\$3,615
Upland Wildlife Habitat Management (ac.) 645		256	\$0	\$11,525	\$2,305	\$12,574	\$0	\$3,842	\$5,914
Use Exclusion (ac.) 472		404	\$1,011	\$0	\$202	\$1,213	\$1,011	\$61	\$1,267
Wetland Wildlife Habitat Management (ac.) 644		75	\$0	\$3,371	\$674	\$3,678	\$0	\$1,124	\$1,730
<b>Subtotal</b>			<b>\$3,906,539</b>	<b>\$69,899</b>	<b>\$795,288</b>	<b>\$4,764,107</b>	<b>\$3,906,539</b>	<b>\$103,114</b>	<b>\$4,278,613</b>
<b>TOTAL ACRES TREATED / ESTIMATED TREATMENT COSTS</b>		<b>2186.65</b>	<b>\$19,067,459</b>	<b>\$95,775</b>	<b>\$3,832,647</b>	<b>\$22,985,441</b>	<b>\$19,067,459</b>	<b>\$414,958</b>	<b>\$20,730,076</b>

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