

Milford WRAPS Watershed Plan Implementation

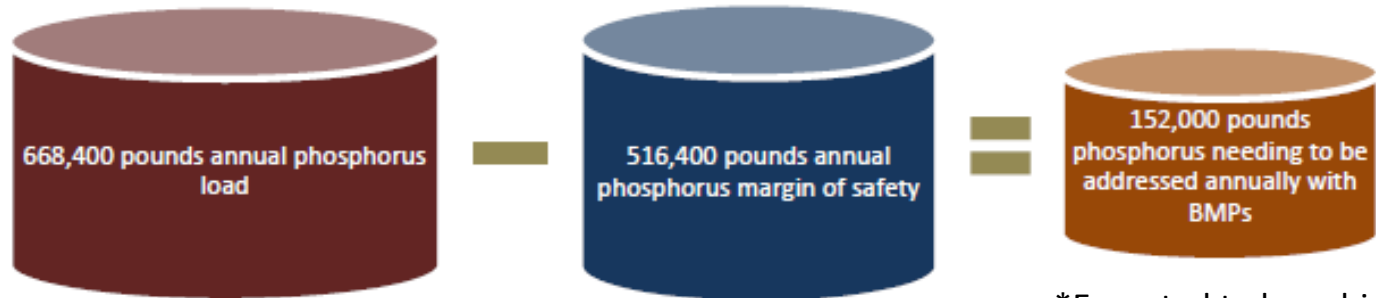
- Phosphorus Reduction Goals
- Water Quality Milestones
- 10 Year Implementation Cost
- Cost Calculation Options

Our vision is 'healthy Kansans living in safe and sustainable environments'.
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Annual Phosphorous Load Reduction Goal—Milford WRAPS

Current
Milford 9-
Element
Plan Goal



*Expected to be achieved
in WRAPS plan year 17

However...

Annual Load Reduction Needed for the
New Milford Reservoir Phosphorous TMDL = 617,204 lbs.

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Phosphorus Reducing Cropland, Streambank and Livestock BMPs:

- Buffers
- Encouragement of Continuous No-till
- Preparation of Nutrient Management Plans
- Grassed Waterways
- Terraces
- Subsurface fertilizers
- Grade Stabilization Structures
- Streambank Stabilization
- Encouragement of Conservation Rotation
- Vegetative filter strips between small feeding operations and streams
- Relocation of small feeding operations away from streams
- Relocation of pasture feeding sites away from streams
- Promotion of alternative watering sites away from streams
- Implement rotational grazing practices

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Table 42 Phosphorus and Total Suspended Solids 10 Year Milestones

10 year milestones	Current Condition	Improved Condition 2010-2020	Current Condition	Improved Condition 2010-2020
Stream	TP (median of data collected during indicated period), ppm		TSS (median of data collected during indicated period), ppm	
Buffalo Creek	0.370	0.310	81	65
Wolf Creek	0.365	0.292	35	31
Repub-Concordia/Rice	0.284	0.240	44	40
Salt Creek	0.331	0.265	60	48
Elm Creek	0.260	0.239	32	29
Peats Creek	0.298	0.246	38	34
Mulberry Creek	0.210	0.200	32	29
Five Creek	0.167	0.150	26	23
Repub-Clay Center	0.312	0.256	80	64

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Total Annual Costs of Implementing Cropland, Livestock, Streambank and Rangeland BMPs, in addition to Information and Education and Technical Assistance, Cont.						
Year	BMPs Implemented			I&E and Technical Assistance		Total
	Cropland	Livestock	Streambank	I&E	Technical Assistance	
4	\$171,822	\$13,183	\$22,762	\$135,607	\$61,739	\$405,113
5	\$176,976	\$8,399	\$23,444	\$139,676	\$63,591	\$412,086
6	\$182,286	\$10,148	\$24,148	\$143,866	\$65,499	\$425,947
7	\$187,754	\$8,911	\$24,872	\$148,182	\$67,464	\$437,183
8	\$193,387	\$14,837	\$25,618	\$152,627	\$69,488	\$455,957
9	\$199,188	\$5,260	\$26,387	\$157,206	\$71,573	\$459,614
10	\$205,164	\$15,741	\$27,178	\$161,922	\$73,720	\$483,725
11	\$211,319	\$7,479	\$27,994	\$166,780	\$75,931	\$489,503
12	\$217,659	\$9,490	\$28,834	\$171,783	\$78,209	\$505,976
13	\$224,188	\$7,934	\$29,699	\$176,937	\$80,555	\$519,313
14	\$230,914	\$14,930	\$30,590	\$182,245	\$82,972	\$541,651

Total 10 year cost = \$5,136,068

Total 10 Cropland Livestock Cost = \$2,316,969

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Actual Cost

- Since new load reduction goals are 4x higher, implementation will have to increase.

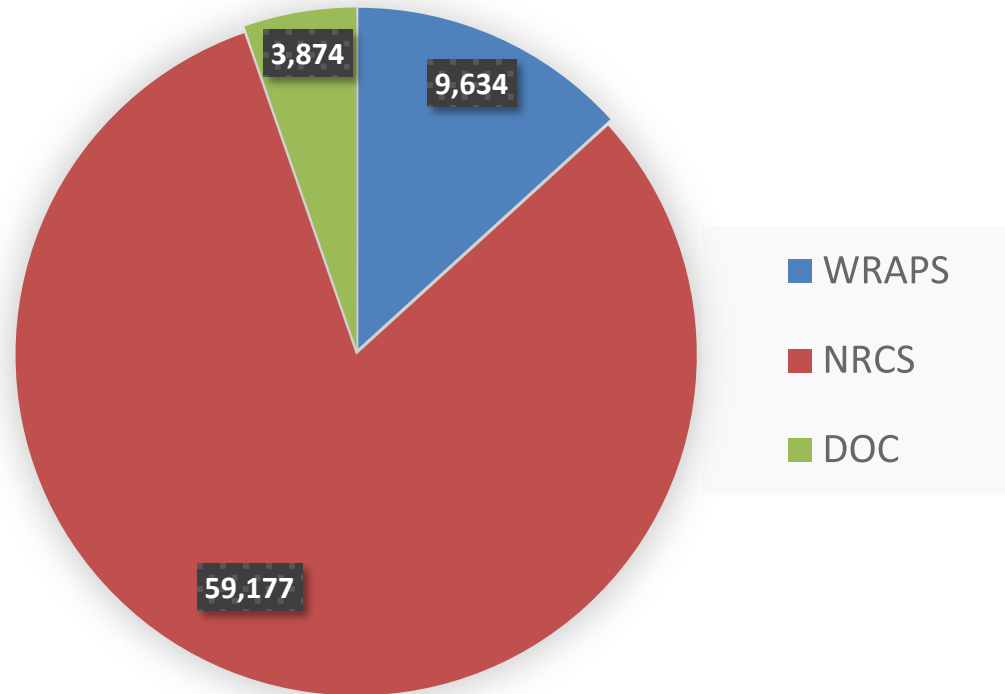
Total 10 year cost x 4 = \$20,544,272

Total 10 Cropland Livestock Cost x 4 = \$9,267,876

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Annual Phosphorous (Lbs.) Reduced after 4 Years of Implementation



Total Reductions:
72,685 lbs./year

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Actual Cost

- Since new load reduction goals are 4x higher, implementation will have to increase.

Total 10 year cost x 4 = \$20,544,272

Total 10 Cropland Livestock Cost x 4 = \$9,267,876

- Remove need already being covered

20 % Total 10 year cost x 4 = \$4,108,854

80 % Total 10 year cost x 4 = \$16,435,418

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