Appendix G

District

Road Risk and Benefit Matrices and

Recommendations by ML

Munising RD Roads Risk and Benefit Matrix and Recommendations for ML 1 Roads.

Ranking		Route Miles		Recommended changes to current ML 1 Roads by miles*					
Risk	Benefit	Total Miles	Relative %	Keep	Change ML	Convert to Trail	Relocate	Decommission	Decommission and Special Use Permit
High	Low	43.1	19	18.9	0.2	1.0	0.3	22.6	0.1
High	Mod	9.5	4	4.6	0.0	1.3	0.0	3.4	0.2
High	High	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Mod	Low	58.5	26	33.6	0.0	0.1	2.0	22.8	0.0
Mod	Mod	14.4	6	7.8	0.1	0.0	0.0	6.4	0.1
Mod	High	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Low	Low	83.1	36	47.4	0.6	1.6	0.6	32.7	0.2
Low	Mod	19.8	9	11.5	0.0	0.3	0.2	7.6	0.2
Low	High	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total Miles		228.4	100	123.8	0.9	4.3	3.1	95.5	0.8
Percent				54	1	2	1	42	0

*Mileages derived from current GIS data (September 2015).

Munising Roads Risk and Benefit Matrix and Recommendations for ML 2 Roads.

Ranking		Route Miles		Recommended changes to current ML 2 Roads by miles*					
Risk	Benefit	Total Miles	Relative %	Keep	Change ML	Convert to Trail	Relocate	Decommission	Decommission and Special Use Permit
High	Low	40.3	10	34.5	0.5	0.0	0.0	4.2	1.1
High	Mod	61.1	14	51.9	2.4	1.2	0.4	4.6	0.6
High	High	16.6	4	16.5	0.0	0.1	0.0	0.0	0.0
Mod	Low	52.7	12	40.3	0.8	0.0	0.6	11.5	0.1
Mod	Mod	85.7	20	71.0	1.7	0.4	0.9	11.4	0.3
Mod	High	13.5	3	12.9	0.1	0.1	0.0	0.0	0.4
Low	Low	57.7	14	42.2	1.2	0.6	0.0	13.2	0.5
Low	Mod	83.1	20	68.3	1.1	0.4	1.1	11.4	0.8
Low	High	12.1	3	11.8	0.0	0.0	0.0	0.3	0.0
Total Miles		422.8	100	349.4	7.8	2.8	3.0	56.6	3.8
Percent				83	2	0	1	13	1

*Mileages derived from current GIS data (September 2015).

Munising Roads Risk and Benefit Matrix and Recommendations for ML 3 Roads.

Risk	Benefit	Total Miles	Relative %	Keep	Change ML	Transfer Jurisdiction to County
High	Low	1.6	4	0.0	1.6	0.0
High	Mod	8.7	24	6.7	0.0	2.0
High	High	3.0	8	1.0	0.8	1.2
Mod	Low	0.4	1	0.0	0.1	0.3
Mod	Mod	8.7	23	8.3	0.0	0.4
Mod	High	8.1	21	5.6	0.1	2.4
Low	Low	0.2	1	0.0	0.2	0.0
Low	Mod	3.9	10	3.1	0.4	0.4
Low	High	3.2	8	0.4	0.0	2.8
Total Miles		37.8	100	25.1	3.2	9.5
Percent				66	8	25

*Mileages derived from current GIS data (September 2015).

Munising Roads Risk and Benefit Matrix and Recommendations for ML 4 Roads.

Risk	Benefit	Total Miles	Relative %	Keep	Transfer Jurisdiction to County
High	Low	8.2	18	0.3	7.9
High	Mod	3.7	8	3.7	0.0
High	High	5.0	11	5.0	0.0
Mod	Low	2.3	5	0.0	2.3
Mod	Mod	7.7	17	7.7	0.0
Mod	High	6.0	13	6.0	0.0
Low	Low	0.9	2	0.0	0.9
Low	Mod	6.2	14	6.2	0.0
Low	High	5.2	12	5.2	0.0
Total Miles		45.2	100	34.1	11.1
Percent				75	25

*Mileages derived from current GIS data (September 2015).

Munising Roads Risk and Benefit Matrix and Recommendations for ML 5 Roads.

Ranking		Route Miles		Recommended changes to current ML 5 Roads by miles*	
Risk	Benefit	Total Miles	Relative %	Keep	Transfer Jurisdiction to County
High	Low	0.3	3	0.3	0.0
High	Mod	2.4	20	2.1	0.3
High	High	3.1	25	3.1	0.0
Mod	Low	0.5	4	0.5	0.0
Mod	Mod	1.6	13	0.7	0.9
Mod	High	0.5	4	0.5	0.0
Low	Low	0.4	3	0.4	0.0
Low	Mod	3.0	25	2.8	0.2
Low	High	0.4	3	0.4	0.0
Total Miles		12.2	100	10.8	1.4
Percent				89	11

*Mileages derived from current GIS data (September 2015).

Rapid River/Manistique RD Roads Risk and Benefit Matrix and Recommendations for ML 1 Roads.

Ranking		Route Miles		Recommended changes to current ML 1 Roads by miles*						
Risk	Benefit	Total Miles	Relative %	Keep	Change ML	Convert to Trail	Relocate	Transfer to County	Decommission	Decommission and Special Use Permit
High	Low	40.2	15	18.1	0.1	0.0	0.0	0.0	17.0	5.0
High	Mod	19.1	7	15.0	0.0	0.0	0.0	0.0	4.1	0.0
High	High	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mod	Low	92.6	33	58.1	0.0	0.4	0.0	0.3	32.4	1.4
Mod	Mod	62.1	22	42.7	0.0	0.5	1.0	0.0	17.8	0.1
Mod	High	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Low	Low	42.9	15	17.9	0.0	0.0	0.0	0.7	24.2	0.1
Low	Mod	20.0	8	11.0	0.0	0.0	0.0	0.0	8.5	0.5
Low	High	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Miles		276.9	100	162.8	0.1	4.3	1.0	1.0	104.0	7.1
Percent				59	0	1	0	0	38	1

*Mileages derived from current GIS data (September 2015).

Rapid River/Manistique Roads Risk and Benefit Matrix and Recommendations for ML 2 Roads.

Ranking		Route Miles		Recommended changes to current ML 2 Roads by miles*						
Risk	Benefit	Total Miles	Relative %	Keep	Change ML	Convert to Trail	Relocate	Transfer Jurisdiction to County	Decommission	Decommission and Special Use Permit
High	Low	59.0	7	41.3	1.2	0.0	0.4	0.0	15.9	0.2
High	Mod	117.0	13	94.3	3.7	1.1	0.0	0.0	15.6	2.3
High	High	14.1	2	10.7	0.3	0.8	0.0	0.0	0.3	2.0
Mod	Low	133.4	15	91.1	1.2	0.3	0.5	0.0	39.1	1.2
Mod	Mod	206.1	23	166.7	2.5	0.2	1.6	0.0	30.1	5.0
Mod	High	21.5	2	19.8	0.5	0.0	0.0	0.3	0.7	0.2
Low	Low	149.7	17	92.5	0.8	0.2	0.3	0.0	53.9	2.0
Low	Mod	181.0	20	138.5	0.7	0.9	1.2	0.0	34.9	4.8
Low	High	14.1	1	13.2	0.0	0.0	0.0	0.0	0.5	0.4
Total Miles		895.9		668.2	10.9	3.5	4.0	0.3	191.0	18.1
Percent				75	1	0	1	0	21	2

*Mileages derived from current GIS data (September 2015).

Rapid River/Manistique Roads Risk and Benefit Matrix and Recommendations for ML 3 Roads.

Ranking		Route Miles		Recommended changes to current ML 3 Roads by miles*				
Risk	Benefit	Total Miles	Relative %	Keep	Change ML	Convert to Trail	Transfer Jurisdiction to County	Decommission
High	Low	3.0	5	2.3	0.0	0.0	0.7	0.0
High	Mod	11.5	19	7.4	1.8	0.0	2.1	0.2
High	High	4.0	7	4.0	0.0	0.0	0.0	0.0
Mod	Low	3.5	6	3.0	0.0	0.0	0.5	0.0
Mod	Mod	21.7	36	17.8	1.9	0.2	1.8	0.0
Mod	High	4.6	8	4.6	0.0	0.0	0.0	0.0
Low	Low	2.8	5	2.3	0.0	0.0	0.5	0.0
Low	Mod	7.5	12	6.0	1.1	0.0	0.4	0.0
Low	High	2.0	2	2.0	0.0	0.0	0.0	0.0
Total Miles		60.6	100	49.4	4.8	0.2	6.0	0.2
Percent				82	8	0	10	0

*Mileages derived from current GIS data (September 2015).

Rapid River/Manistique Roads Risk and Benefit Matrix and Recommendations for ML 4 Roads.

Ranking		Route Miles		Recommended changes to current ML 4 Roads by miles*	
Risk	Benefit	Total Miles	Relative %	Keep	Transfer Jurisdiction to County
High	Low	1.5	1	1.5	0.0
High	Mod	16.9	16	13.5	3.4
High	High	11.9	11	7.2	4.7
Mod	Low	1.9	2	1.9	0.0
Mod	Mod	32.2	30	27.2	5.0
Mod	High	13.9	13	9.9	4.0
Low	Low	1.8	2	1.5	0.3
Low	Mod	21.3	20	14.0	7.3
Low	High	6.2	5	2.4	3.8
Total Miles		107.6	100	79.1	28.5
Percent				73	17

*Mileages derived from current GIS data (September 2015).

Rapid River/Manistique Roads Risk and Benefit Matrix and Recommendations for ML 5 Roads.

Ranking		Route Miles		Recommended changes to current ML 5 Roads by miles*
Risk	Benefit	Total Miles	Relative %	Keep
High	Low			0.0
High	Mod			2.0
High	High			0.5
Mod	Low			0.3
Mod	Mod			1.3
Mod	High			0.8
Low	Low			0.6
Low	Mod			1.3
Low	High			1.5
Total Miles				8.3
Percent				

*Mileages derived from current GIS data (September 2015).

Sault Ste. Marie RD Roads Risk and Benefit Matrix and Recommendations for ML 1 Roads.

Ranking		Route Miles		Recommended changes to current ML 1 Roads by miles*					
Risk	Benefit	Total Miles	Relative %	Keep	Convert to Trail	Relocate	Transfer Jurisdiction to County	Decommission	Decommission and Special Use Permit
High	Low	21.5	18	9.4	1.3	0.0	0.9	8.9	1.0
High	Mod	8.2	7	6.9	0.0	0.0	0.0	1.3	0.0
High	High	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Mod	Low	30.9	25	21.3	0.3	0.0	0.1	8.8	0.4
Mod	Mod	11.9	10	9.9	0.0	0.0	0.0	1.5	0.5
Mod	High	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Low	Low	30.2	25	20.5	0.3	0.0	0.0	8.8	0.6
Low	Mod	17.9	15	13.8	0.0	0.2	0.0	3.8	0.1
Low	High	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total Miles		120.6	100	81.8	1.9	0.2	1.0	33.1	2.6
Percent				68	2	0	0	27	3

*Mileages derived from current GIS data (September 2015).

Sault Ste. Marie RD Roads Risk and Benefit Matrix and Recommendations for ML 2 Roads.

Ranking		Route Miles		Recommended changes to current ML 2 Roads by miles*					
Risk	Benefit	Total Miles	Relative %	Keep	Change ML	Convert to Trail	Relocate	Decommission	Decommission and Special Use Permit
High	Low	20.7	4	13.1	0.6	0.2	1.0	5.6	0.2
High	Mod	65.3	13	54.3	0.0	0.2	3.0	7.5	0.3
High	High	10.3	2	9.8	0.0	0.0	0.0	0.5	0.0
Mod	Low	53.0	11	37.6	0.6	0.0	0.4	13.9	0.5
Mod	Mod	121.6	24	102.4	2.0	0.0	2.0	9.8	5.4
Mod	High	19.1	4	18.7	0.0	0.3	0.0	0.0	0.1
Low	Low	59.5	12	41.4	0.3	0.0	0.2	17.4	0.2
Low	Mod	125.8	25	112.8	0.0	0.0	0.6	11.6	0.8
Low	High	29.0	5	28.2	0.0	0.1	0.0	0.1	0.6
Total Miles		504.3	100	418.3	3.5	0.8	7.2	66.4	8.1
Percent				83	1	0	1	13	2

*Mileages derived from current GIS data (September 2015).

Sault Ste. Marie RD Roads Risk and Benefit Matrix and Recommendations for ML 3 Roads.

Ranking		Route Miles		Recommended changes to current ML 3 Roads by miles*		
Risk	Benefit	Total Miles	Relative %	Keep	Change ML	Transfer Jurisdiction to County
High	Low	1.8	3	1.8	0.0	0.0
High	Mod	7.7	11	4.8	2.9	0.0
High	High	23.4	35	9.6	10.1	3.7
Mod	Low	1.6	2	0.8	0.8	0.0
Mod	Mod	9.3	14	7.3	1.8	0.2
Mod	High	14.2	21	7.8	0.6	5.8
Low	Low	1.0	1	0.0	1.0	0.0
Low	Mod	3.0	4	0.2	2.6	0.2
Low	High	5.4	9	0.9	2.7	1.8
Total Miles		67.4	100	33.2	22.5	11.7
Percent				49	34	17

*Mileages derived from current GIS data (September 2015).

Sault Ste. Marie RD Roads Risk and Benefit Matrix and Recommendations for ML 4 Roads.

Ranking		Route Miles		Recommended changes to current ML 3 Roads by miles*		
Risk	Benefit	Total Miles	Relative %	Keep	Change ML	Transfer Jurisdiction to County
High	Low	4.9	6	4.9	0.0	0.0
High	Mod	7.1	9	7.1	0.0	0.0
High	High	15.1	19	6.5	3.4	5.2
Mod	Low	3.1	4	3.1	0.0	0.0
Mod	Mod	8.3	11	6.2	2.1	0.0
Mod	High	18.5	24	13.2	0.7	4.6
Low	Low	2.0	3	2.0	0.0	0.0
Low	Mod	2.8	3	2.2	0.6	0.0
Low	High	16.2	21	11.3	1.3	3.6
Total Miles		78.0	100	56.5	8.1	13.7
Percent				72	10	18

*Mileages derived from current GIS data (September 2015).

Sault Ste. Marie RD Roads Risk and Benefit Matrix and Recommendations for ML 5 Roads.

Ranking		Route Miles		Recommended changes to current ML 5 Roads by miles*
Risk	Benefit	Total Miles	Relative %	Keep
High	Low			0.2
High	Mod			1.2
High	High			0.7
Mod	Low			0.7
Mod	Mod			2.2
Mod	High			0.0
Low	Low			0.5
Low	Mod			0.6
Low	High			0.0
Total Miles				6.1
Percent				

*Mileages derived from current GIS data (September 2015).

St. Ignace RD Roads Risk and Benefit Matrix and Recommendations for ML 1 Roads.

| Ranking | | Route Miles | | Recommended changes to current ML 1 Roads by miles* | | | | |
Risk	Benefit	Total Miles	Relative %	Keep	Change ML	Relocate	Decommission	Decommission and Special Use Permit
High	Low	46.6	28	31.4	0.0	2.6	12.4	0.2
High	Mod	7.8	6	5.4	0.0	0.2	2.2	0.0
High	High	0.0	0	0.0	0.0	0.0	0.0	0.0
Mod	Low	78.5	47	50.8	0.7	3.0	23.9	0.1
Mod	Mod	15.4	9	11.2	0.1	0.3	3.4	0.4
Mod	High	0.0	0	0.0	0.0	0.0	0.0	0.0
Low	Low	14.0	8	8.9	0.0	0.9	4.0	0.2
Low	Mod	3.0	2	2.0	0.0	0.0	0.6	0.4
Low	High	0.0	0	0.0	0.0	0.0	0.0	0.0
Total Miles		165.3	100	109.7	0.8	7.0	46.5	1.3
Percent				66	0	5	28	1

*Mileages derived from current GIS data (September 2015).

St. Ignace RD Roads Risk and Benefit Matrix and Recommendations for ML 2 Roads.

| Ranking | | Route Miles | | Recommended changes to current ML 2 Roads by miles* | | | |
Risk	Benefit	Total Miles	Relative %	Keep	Relocate	Decommission	Decommission and Special Use Permit
High	Low	20.4	16	13.0	1.2	5.8	0.4
High	Mod	11.4	9	7.8	0.2	3.1	0.3
High	High	1.0	1	1.0	0.0	0.0	0.0
Mod	Low	26.0	20	19.3	0.0	5.6	1.1
Mod	Mod	22.8	18	16.9	1.2	3.6	1.1
Mod	High	2.8	2	2.5	0.0	0.3	0.0
Low	Low	25.0	19	18.9	0.3	5.1	0.7
Low	Mod	17.4	14	15.0	0.8	0.6	1.0
Low	High	1.9	1	1.9	0.0	0.0	0.0
Total Miles		128.7	100	96.3	3.7	24.1	4.6
Percent				75	3	19	3

*Mileages derived from current GIS data (September 2015).

St. Ignace RD Roads Risk and Benefit Matrix and Recommendations for ML 3 Roads.

Ranking		Route Miles		Recommended changes to current ML 3 Roads by miles*			
Risk	Benefit	Total Miles	Relative %	Keep	Change ML	Transfer to County	Decommission
High	Low	8.3	14	6.2	1.3	0.0	0.8
High	Mod	10.2	17	8.5	1.7	0.0	0.0
High	High	3.9	6	3.6	0.3	0.0	0.0
Mod	Low	9.3	15	7.8	0.5	0.0	1.0
Mod	Mod	10.5	17	5.7	3.1	1.7	0.0
Mod	High	6.7	11	6.2	0.5	0.0	0.0
Low	Low	4.0	7	3.7	0.0	0.0	0.3
Low	Mod	5.7	9	4.8	0.2	0.7	0.0
Low	High	2.4	4	2.4	0.0	0.0	0.0
Total Miles		61.0		48.9	7.6	2.4	2.1
Percent				80	12	4	4

*Mileages derived from current GIS data (September 2015).

St. Ignace RD Roads Risk and Benefit Matrix and Recommendations for ML 4 Roads.

Ranking		Route Miles		Recommended changes to current ML 4 Roads by miles*	
Risk	Benefit	Total Miles	Relative %	Keep	Change ML
High	Low	0.6	2	0.6	0.0
High	Mod	5.4	16	5.1	0.3
High	High	9.5	28	7.0	2.5
Mod	Low	0.0	0	0.0	0.0
Mod	Mod	4.7	14	4.7	0.0
Mod	High	8.4	24	8.4	0.0
Low	Low	0.0	0	0.0	0.0
Low	Mod	1.9	6	1.9	0.0
Low	High	3.4	10	3.4	0.0
Total Miles		33.9	100	31.1	2.8
Percent				92	8

*Mileages derived from current GIS data (September 2015).

St. Ignace RD Roads Risk and Benefit Matrix and Recommendations for ML 5 Roads.

Ranking		Route Miles		Recommended changes to current ML 5 Roads by miles*	
Risk	Benefit	Total Miles	Relative %	Keep	Convert to Trail
High	Low	1.0	10	1.0	0.0
High	Mod	0.8	8	0.8	0.0
High	High	2.2	24	2.2	0.0
Mod	Low	0.6	6	0.6	0.0
Mod	Mod	0.6	6	0.6	0.0
Mod	High	1.4	14	1.4	0.0
Low	Low	0.0	0	0.0	0.0
Low	Mod	2.2	23	1.3	0.9
Low	High	0.9	9	0.9	0.0
Total Miles		9.7	100	8.8	0.9
Percent				91	9

*Mileages derived from current GIS data (September 2015).