

## **APPENDIX A – DATA SUMMARIES**

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NSST in Cook County.

# Appendix A-1: Land Ownership Summary, by Trail Length in Miles

DNR, February 2006

SECTION	1	2	3	4	5	6	7	8	9	10	11	TOTAL
Private	6.84		0.14			0.30					0.31	7.59
Private - Industry		0.50					0.50					1.00
County	5.20	10.60	9.62	14.52	7.68	2.00	8.90				0.80	59.32
State	1.28	2.10	0.39	1.01	4.40	4.10	8.40		0.30	1.50	1.00	24.48
Federal					3.68			13.62	12.85	17.70	2.80	50.65
<b>TOTAL MILES</b>	<b>13.32</b>	<b>13.20</b>	<b>10.15</b>	<b>15.53</b>	<b>15.76</b>	<b>6.40</b>	<b>17.80</b>	<b>13.62</b>	<b>13.15</b>	<b>19.20</b>	<b>4.91</b>	<b>143.04</b>

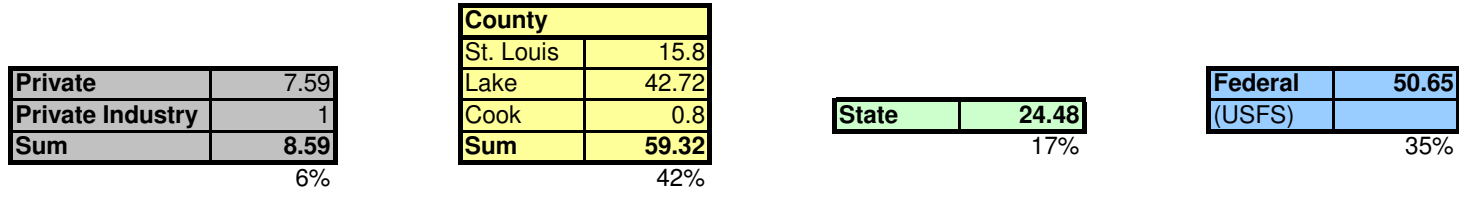
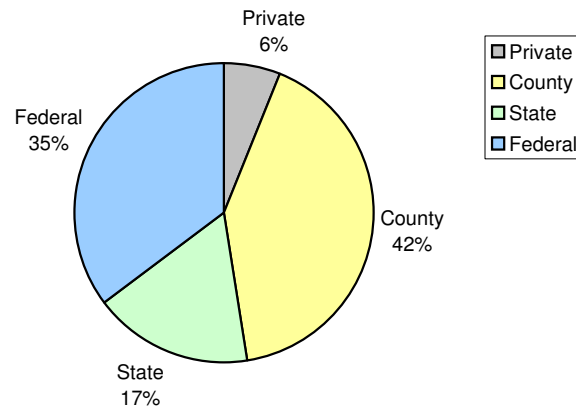


Figure II-1. North Shore State Trail Land Ownership Summary (by Trail Length in Miles)

	Trail Length, Mi	Percent
Private	8.59	6%
County	59.32	42%
State	24.48	17%
Federal	50.65	35%
<b>Total</b>	<b>143.04</b>	<b>100%</b>



Source: DNR, Unpublished Data, 2006.

Appendix A-2: Designated Trout Streams and Protected Tributaries with Crossing Structure Summary

DNR, February 2006

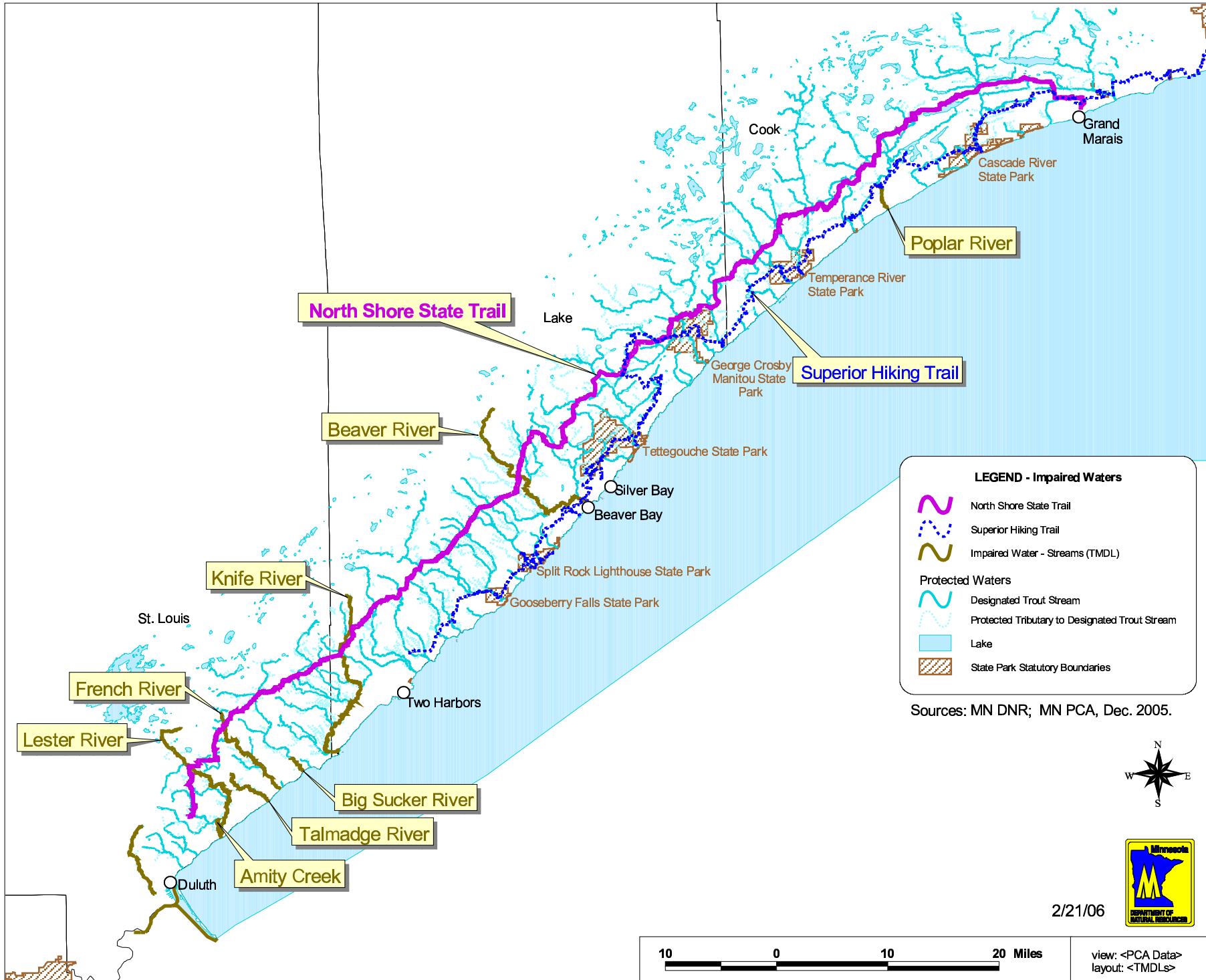
Count of TRL_XING		SECTION											Grand Total	TMDL Pollutant		
ID	NAME	TRL_XING	1	2	3	4	5	6	7	8	9	10			11	
1	E. Br. Amity Cr *	steel bridge, 60 ft	1												1	Turbidity
2	Trib. to Amity	none	1												1	
3	Trib. to Amity	none	1												1	
4	Trib. to Amity	culvert, 36" diameter	1												1	
5	S. Br. Lester R.	culverts, 24" and 30" diameters	1												1	
6	Lester R. *	steel bridge, 70 ft	1												1	Turbidity, Hg
7	N. Br. Lester R.	wood bridge, 26 ft	1												1	
8	W. Br. French R. (Harvey's)	wood bridge, 24 ft	1												1	
9	French R. *	wood bridge, 24 ft	1												1	Turbidity
10	Big Sucker R. *	wood bridge, 50 ft	1												1	Turbidity
11	Trib to Capt. Jacobsen	culverts, two 24" diameter	1												1	
12	W. Br. Knife R.	wood bridge, 24 ft	1												1	
13	Little W. Br. Knife R.	wood bridge, 24 ft	1												1	
14	E. Br. Knife R. *	wood bridge, 34 ft			1										1	Turbidity, Hg, pH
15	Trib to E. Br. Knife R.	culvert, 12" diameter			1										1	
16	Trib to Stewart R.	culvert, 18" diameter			1										1	
17	Trib to Stewart R.	culvert, 12" diameter			1										1	
18	Stewart R.	wood bridge, 30 ft			1										1	
19	Trib. to Stewart R.	wood bridge, 16 ft			1										1	
20	Silver Cr.	wood bridge, 22 ft				1									1	
21	Encampment R.	wood bridge, 24 ft				1									1	
22	Gooseberry R.	steel bridge, 70 ft				1									1	
23	Dago R.	wood bridge, 28 ft				1									1	
24	Trib to Dago R.	none, Lake Co. Forest Rd				1									1	
25	Trib to Dago R.	none, Lake Co. Forest Rd				1									1	
26	Trib to Mink Cr.	none, Alger RR grade				1									1	
27	Trib to Mink Cr.	none, Alger RR grade				1									1	
28	Mink Cr.	culvert, 12" diameter				1									1	
29	Trib to Mink Cr.	none, Alger RR grade				1									1	
30	Trib to Mink Cr.	none, Alger RR grade				1									1	
31	Stoney R.	wood bridge, 24 ft				1									1	
32	Skunk Cr.	wood bridge, 30 ft				1									1	
33	Trib to Skunk Cr.	wood bridge, 16 ft				1									1	
34	Bud Cr.	culvert, 36" diameter				1									1	
35	Trib to Bud Cr.	culvert, 12" diameter				1									1	
36	W. Br. Split Rock R.	culvert, 60" diameter				1									1	
37	Trib to E. Br. Split Rock R.	culvert, 12" diameter				1									1	
38	E. Br. Split Rock R.	wood bridge, 40 ft				1									1	
39	W. Br. Beaver R.	culverts, two 48" diameter				1									1	
40	Trib to Kit Cr.	culvert, 24" diameter				1									1	
41	Trib to Kit Cr.	culverts, two 24" diameter				1									1	
42	Kit Cr.	wood bridge, 30 ft				1									1	
43	Beaver R. *	wood bridge, 38 ft				1									1	Turbidity, Hg, pH
44	Trib to Big 39 (Little Big 39)	wood bridge, 24 ft				1									1	
45	Big 39 R.	wood bridge, 40 ft				1									1	
46	Little 39 R.	wood bridge, 24 ft				1									1	
47	E. Br. Beaver R.	steel bridge, 55 ft				1									1	
48	Little 43 Cr.	culvert, 24" diameter				1									1	
49	Nicardo Cr.	culvert, 18" diameter				1									1	
50	Hockamin Cr.	culvert, two 72" diameter						1							1	
51	Trib to Hockamin	culvert, 24" diameter						1							1	
52	Trib to Hockamin	culvert, 24" diameter						1							1	
53	W. Br. Baptism R.	steel bridge, 100 ft						1							1	
54	Tikkanen Cr. (Sec 8)	culvert, two 24" diameter						1							1	
55	Trib to E. Baptism	culvert, 30" diameter							1						1	
56	Edge Cr.	wood bridge, 24 ft							1						1	
57	Schoolhouse Cr.	culverts, two 24" diameter							1						1	
58	E. Br. Baptism R.	steel bridge, 80 ft							1						1	
59	Rock Cut Cr. (Manitou Trib)	wood bridge, 24 ft							1						1	
60	Manitou R.	steel bridge, 110 ft							1						1	
61	Kowolski Cr.	wood bridge, 24 ft							1						1	
62	S. Caribou R.	wood bridge, 45 ft							1						1	
63	Middle Caribou R.	wood bridge, 30 ft							1						1	
64	N. Caribou R.	wood bridge, 24 ft							1						1	
65	Amenda Cr.	wood bridge, 24 ft								1					1	
66	Two Island R.	wood bridge, 34 ft								1					1	
67	Stumble Cr.	culverts, 24" and 36" diameter								1					1	
68	Cross R.	steel bridge, 120 ft								1					1	
69	Heartbreak R.	USFS Culvert								1					1	
70	Blind Temperance R.	USFS Culvert								1					1	
71	Temperance R.	USFS Bridge								1					1	
72	Poplar R. *	USFS Bridge									1				1	Turbidity, Hg
73	Tait R.	USFS Culvert									1				1	
74	Trib to Tait R.	culverts, two 24" diameter									1				1	
75	Vat Cr.	wood bridge, 24 ft										1			1	
76	Mistletoe Cr.	USFS Bridge										1			1	
77	Cascade R.	USFS Bridge										1			1	
78	Little Devil Track R.	wood bridge, 24 ft												1	1	
<b>Grand Total</b>			<b>9</b>	<b>4</b>	<b>6</b>	<b>20</b>	<b>10</b>	<b>5</b>	<b>10</b>	<b>7</b>	<b>3</b>	<b>3</b>	<b>1</b>		<b>78</b>	

\* = Impaired water

Designated Trout Stream  
Protected Tributary

Sources: DNR, 2006; and MPCA, Draft 2006 TMDL List, TMDL Pollutant Data, Lake Superior Basin.

# Appendix A-3: Impaired Waters in the Vicinity of the NSST



# Appendix A-4: Culvert Data Summary

Total Culvert Counts												
SECTION												
Data	1	2	3	4	5	6	7	8	9	10	11	Grand Total
Count of EXISTING_C	43	23	34	14	19	25	31	26	24	12	19	270
Count of NEEDS REPL	2	1	3	7	7	8	5	3	1	37		
Count of CULVERT_RE	49	14	6	41	31	20	22	32	17	7	239	
<b>Total per Section</b>	<b>94</b>	<b>38</b>	<b>40</b>	<b>58</b>	<b>57</b>	<b>25</b>	<b>58</b>	<b>56</b>	<b>61</b>	<b>32</b>	<b>27</b>	<b>546</b>

Existing Culverts per Section												
SECTION												
EXISTING_C	1	2	3	4	5	6	7	8	9	10	11	Grand Total
12	35	12	17	2	7	21	15	16	8	3	5	141
15			1				1	1	4			7
18	4	4	13	3	6	1	9	2	6	3	7	58
24	1	4	3	1	5	3	3	4	4	2		30
30	1						1				2	4
36	1				1			1				3
48				2								2
8	1	3		6			2	2	2	2	7	25
<b>Grand Total</b>	<b>43</b>	<b>23</b>	<b>34</b>	<b>14</b>	<b>19</b>	<b>25</b>	<b>31</b>	<b>26</b>	<b>24</b>	<b>12</b>	<b>19</b>	<b>270</b>

Existing Culverts, Needs Replacement												
SECTION												
NEEDS REPL	1	2	4	5	7	8	9	10	11	Grand Total		
12	2	1	2	3	4	7	5	3	1	28		
18				2						2		
24			1		3	1				5		
30				2						2		
<b>Grand Total</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>7</b>	<b>7</b>	<b>8</b>	<b>5</b>	<b>3</b>	<b>1</b>	<b>37</b>		

\*Sections 3 and 6 - no culverts need replacement

New Culvert Needed												
SECTION												
CULVERT_RE	1	2	3	4	5	7	8	9	10	11	Grand Total	
12	48	13	5	34	28	20	21	31	17	6	223	
18		1		3	3		1	1		1	10	
24	1		1	4							6	
<b>Grand Total</b>	<b>49</b>	<b>14</b>	<b>6</b>	<b>41</b>	<b>31</b>	<b>20</b>	<b>22</b>	<b>32</b>	<b>17</b>	<b>7</b>	<b>239</b>	

\*Section 6 - no new culverts needed

Culverts needed (New + replacements)												
<b>TOTAL</b>	<b>51</b>	<b>15</b>	<b>6</b>	<b>44</b>	<b>38</b>	<b>0</b>	<b>27</b>	<b>30</b>	<b>37</b>	<b>20</b>	<b>8</b>	<b>276</b>

Source: DNR, Unpublished Data, 2006.

# Appendix A-5: Projected Trail Stabilization Summary Including Wetland Mitigation Needs

DNR, February 2006

Sum of FILL FEET		SECTION										Grand Total
LEGEND	COMMENTS	1	2	3	4	5	7	8	9	10	11	Grand Total
Culvert Required	Dago to #3				1,650							1,650
	Old Corduroy Road						210					210
	Wetland, Mitigation Required	3,195			4,365							7,560
	Wetland, Mitigation Required, Encampment R.				375							375
	Wetland, Mitigation Required, old RR tie brid			150								150
	(blank)	4,665	1,125	525		225	1,215	4,065	3,030	1,350	1,425	17,625
	Wetland, Mitigation Required, needs 3 Culverts					390						390
Existing Culvert	43 cr., holes in trail					60						60
	(blank)	2,250	855	60		210	3,675	1,155				8,205
Hill	South Kowolski hill, reroute needed						150					150
	(blank)	225	90				300			90		705
(blank)	Adjacent to beaver pond	600										600
	Wetland, Mitigation Required	1,200										1,200
	(blank)	3,075	1,215			675	5,340	8,040	750	1,425	525	21,045
<b>Grand Total</b>		<b>15,210</b>	<b>3,285</b>	<b>735</b>	<b>6,390</b>	<b>1,560</b>	<b>10,890</b>	<b>13,260</b>	<b>3,780</b>	<b>2,865</b>	<b>1,950</b>	<b>59,925</b>
Mitigation Required	Sum of linear feet	4,395	0	150	4,740	390	0	0	0	0	0	9,675
	Acres (approximate, based on avg 20 ft width)	2		0.07	2.2	0.18						4.4
	Acres Replacement (ratio 1:1.5)	3		0.1	3.26	0.27						6.6
	Count of sites	8	0	1	17	1	0	0	0	0	0	27

Source: DNR, Unpublished Data, 2006.

Wetland Mitigation Costs
Sect. 1 \$39,600
Sect. 3 \$ 1,400
Sect. 4 \$42,700
Sect. 5 \$ 3,500
<b>Estimated Total: \$87,200</b>

Estimated Cost Summaries for Treadway Stabilization (Fill)									
Section	Length D&C (Ft)	D&C Cost: \$2/Ft	Length Haul (Ft)	Haul Cost: \$3.20/Ft	Wetland Fill*	Wetland Cost \$11/Ft	Total Length (Ft)	Sub-Total	
1	6,489	\$13,000	4,326	\$13,800	4395 Ft (2.0 Acres)	\$48,300	15,210	\$75,100	
2	1,971	\$3,900	1,314	\$4,200	0	0	3,285	\$8,100	
3	441	\$900	3,434	\$11,000	150 Ft (0.07 Acres)	\$1,700	4,025	\$13,600	
4	990	\$2,000	660	\$2,100	4740 Ft (2.2 Acres)	\$52,100	6,390	\$56,200	
5	702	\$1,400	468	\$1,500	390 Ft (0.18 Acres)	\$4,300	1,560	\$7,200	
7	6,534	\$13,000	4,356	\$13,900	0	0	10,890	\$26,900	
8	7,956	\$15,900	5,304	\$17,000	0	0	13,260	\$32,900	
9	2,268	\$4,500	1,512	\$4,800	0	0	3,780	\$9,300	
10	1,719	\$3,400	1,146	\$3,700	0	0	2,865	\$7,100	
11	1,170	\$2,300	780	\$2,500	0	0	1,950	\$4,800	
<b>Totals</b>	<b>30,240</b>	<b>\$60,300</b>	<b>23,300</b>	<b>\$74,500</b>	<b>9675 Ft (4.4 Acres)</b>	<b>\$106,400</b>	<b>63,215</b>	<b>\$241,200</b>	

\* Wetland Acres estimated using average trail width of 20 Ft. Cost estimates rounded for reporting purposes.

Source: DNR, Unpublished Data, 2006.

Appendix A-6a: Hill Grade and Projected Reroute Data Summary

DNR, February 2006

Count of HILL_FT HILL_GRADE	SECTION											Grand Total
	1	2	3	4	5	6	7	8	9	10	11	
10	1				2		2			1		6
11	5	2					2	3	1		1	14
12	1	1	1		3	1	4	4	3	1		19
13	1	1		1	2	1	4		2		1	13
14	2	3		1	1	1	4	2	3	5	1	23
15	1	4	1		2		2		3	4		17
16	1	3	2	1	2		1	1	3			14
17		5	1		4		2	1	4		2	19
18	1	8		1	2		1	3		1		17
19			1	1	3		1		1			7
20		4	1			1	2			1		9
21	1								3			4
22		3						1	1	2		7
23		1				1			1			3
24								1	1			2
25											1	1
26		1							1			2
<b>Grand Total</b>	<b>14</b>	<b>36</b>	<b>7</b>	<b>5</b>	<b>21</b>	<b>5</b>	<b>25</b>	<b>16</b>	<b>27</b>	<b>15</b>	<b>6</b>	<b>177</b>

Section

Grade Range totals (count):	1	2	3	4	5	6	7	8	9	10	11	Count of hills
10-14%	10	7	1	2	8	3	16	9	9	7	3	75
15-19%	3	20	5	3	13	0	7	5	11	5	2	74
>20%	1	9	1	0	0	2	2	2	7	3	1	28
<b>TOTAL per Section</b>	<b>14</b>	<b>36</b>	<b>7</b>	<b>5</b>	<b>21</b>	<b>5</b>	<b>25</b>	<b>16</b>	<b>27</b>	<b>15</b>	<b>6</b>	<b>177</b>

Potential reroutes estimated by percentage:												Reroute estimate
10-14% (20% reroute)	2	1.4	0.2	0.4	1.6	0.6	3.2	1.8	1.8	1.4	0.6	15
15-19% (50% reroute)	1.5	10	2.5	1.5	6.5	0	3.5	2.5	5.5	2.5	1	37
>20% (80% reroute)	0.8	7.2	0.8	0	0	1.6	1.6	1.6	5.6	2.4	0.8	22.4
<b>TOTAL per Section</b>	<b>4.3</b>	<b>18.6</b>	<b>3.5</b>	<b>1.9</b>	<b>8.1</b>	<b>2.2</b>	<b>8.3</b>	<b>5.9</b>	<b>12.9</b>	<b>6.3</b>	<b>2.4</b>	<b>74.4</b>

Source: DNR, Unpublished Data, 2006.

Appendix A-6b: Hill Length Data Summary

HILL_SLO	Data	SECTION											Grand Total		
		1	2	3	4	5	6	7	8	9	10	11			
10	Count of HILL_FT	1				2		2					1		6
	Sum of HILL_FT	105				1200		375					60		1740
11	Count of HILL_FT	5	2					2	3	1				1	14
	Sum of HILL_FT	1005	675					390	990	75				600	3735
12	Count of HILL_FT	1	1	1		3	1	4	4	3	1				19
	Sum of HILL_FT	90	75	105		975	150	1365	510	555	90				3915
13	Count of HILL_FT	1	1		1	2	1	4		2				1	13
	Sum of HILL_FT	180	600		225	390	250	780		240				270	2935
14	Count of HILL_FT	2	3		1	1	1	4	2	3	5			1	23
	Sum of HILL_FT	705	480		75	600	850	1230	195	1470	825			360	6790
15	Count of HILL_FT	1	4	1		2		2		3	4				17
	Sum of HILL_FT	90	420	90		330		600		540	915				2985
16	Count of HILL_FT	1	3	2	1	2		1	1	3					14
	Sum of HILL_FT	225	330	390	225	300		1200	75	345					3090
17	Count of HILL_FT		5	1		4		2	1	4				2	19
	Sum of HILL_FT		825	105		780		270	150	435				1110	3675
18	Count of HILL_FT	1	8		1	2		1	3				1		17
	Sum of HILL_FT	60	1005		90	450		90	435				75		2205
19	Count of HILL_FT			1	1	3		1		1					7
	Sum of HILL_FT			120	75	525		240		150					1110
20	Count of HILL_FT		4	1			1	2			1				9
	Sum of HILL_FT		420	90			1000	1800			90				3400
21	Count of HILL_FT	1								3					4
	Sum of HILL_FT	150								450					600
22	Count of HILL_FT		3						1	1	2				7
	Sum of HILL_FT		390						300	90	330				1110
23	Count of HILL_FT		1				1			1					3
	Sum of HILL_FT		105				500			180					785
24	Count of HILL_FT								1	1					2
	Sum of HILL_FT								120	150					270
25	Count of HILL_FT													1	1
	Sum of HILL_FT													450	450
26	Count of HILL_FT		1							1					2
	Sum of HILL_FT		225							90					315
Total Count of HILL_FT		14	36	7	5	21	5	25	16	27	15			6	177
Total Sum of HILL_FT		2610	5550	900	690	5550	2750	8340	2775	4770	2385			2790	39110

Grade Range, Sum of Hill Length (Feet)	SECTION											Sum (ft)		
	1	2	3	4	5	6	7	8	9	10	11			
10-14%	2085	1830	105	300	3165	1250	4140	1695	2340	975	1230			19115
15-19%	375	2580	705	390	2385	0	2400	660	1470	990	1110			13065
>20%	150	1140	90	0	0	1500	1800	420	960	420	450			6930
	2610	5550	900	690	5550	2750	8340	2775	4770	2385	2790			39110

Grade Range, Average Hill Length (Feet)	SECTION											Sum (ft)	Avg. Length (ft)		
	1	2	3	4	5	6	7	8	9	10	11				
10-14%	208.5	261.4	105	150	395.6	417	258.8	188.3	260	139.3	410			2793.9	237.6
15-19%	125	129	141	130	183.5	0	342.9	132	133.6	198	555			2070	207
>20%	150	126.6	90	0	0	750	900	210	137.1	140	450			2953.7	220.37
Length avg sum per segment:	483.5	517	336	280	579.1	1167	1501.7	530.3	530.7	477.3	1415				
<b>Average Hill Length (ft):</b>	<b>186</b>	<b>154</b>	<b>129</b>	<b>138</b>	<b>264</b>	<b>550</b>	<b>333</b>	<b>173</b>	<b>177</b>	<b>159</b>	<b>465</b>			<b>221</b>	

Source: DNR, Unpublished Data, 2006.



**Appendix A-7. Road and Trail Intersections with the NSST**

DNR, February 2006

<b>MnDOT Road Coverage</b>		<b>St. Louis</b>	<b>Lake</b>	<b>Cook</b>	<b>Intersections</b>
Martin Rd		1			1
W Tischer Rd		1			1
Jean Duluth Rd		1			1
N Tischer Rd		1			1
Normanna Rd		1			1
Fox Farm Rd		1			1
Laine Rd		1			1
Riley Rd		1			1
Westover Rd				1	1
County 131				1	1
County Rd 302				1	1
County Hwy 2				1	1
County Hwy 3				2	2
County Hwy 4				1	1
National Forest Hwy 15				1	1
Heffelfinger Rd				1	1
County Hwy 6				1	1
County Hwy 7				1	1
County Hwy 8				1	1
County Rd 45				1	1
County Rd 64				1	1
Gunflint Trail				1	1
					<b>23</b>
<b>USFS Road Coverage</b>	<b>Allows OHV</b>				
FH 11 SPUR 1109				1	1
CARIBOU RIVER	yes			1	1
BLIND CREEK				1	1
MUNKER LAKE	yes			1	1
PIKE LAKE				1	1
PIKE LAKE SPUR A	yes			1	1
PIKE LAKE SPUR D	yes			1	1
BALLY CREEK				1	1
HONEYMOON TRAIL				1	1
TAIT RIVER GRAVEL PIT	yes			1	1
CROSS RIVER 600				1	1
MISTLETOE				1	1
BARKER LAKE				1	1
SCHROEDER TOTE ROAD	yes			1	1
TWO ISLAND RIVER				1	1
TEMPERANCE RIVER				1	1
WRINGER LAKE	yes			1	1
					<b>17</b>
<b>Trails - GIA Snowmobile Trails</b>					
Duluth East		1			1
Gooseberry Spur				1	1
Gunflint Trail and Spurs				2	2
Lutsen Access				3	3
Mooserun	(GIA ATV)			1	1
Moosewalk	(GIA ATV)			2	2
Pequaywan-Hoyt Lakes		1			1
Red Dot	(GIA ATV)			1	1
Reservoir Riders		1			1
Sawtooth				2	2
Tofte Lynx				2	2
Tomahawk				1	1
Two Harbors Corridor				3	3
					<b>21</b>
<b>Cross Country Ski Trails</b>					
Sugarbush GIA Trail				1	1
Non-GIA XC Ski Trail (Cook County)				3	3
					<b>4</b>

Sources: USFS - Superior National Forest digital road and trail data; MnDOT public road data; DNR trail data, 2006.

## Appendix A-8. Projected Trail Modifications Estimated Cost Summary

DNR, February 2006

Section	Culvert Installation Est.	Culvert Purchase Est.	Hills - Est. Cost	Treadway Stabilization Est.	Wetland Mitigation Est.	Construction Estimated Cost
1	15,300	7,200	5,300	75,100	39,600	\$142,500
2	4,500	2,100	20,900	8,100	0	\$35,600
3	1,800	900	2,500	13,600	1,400	\$20,200
4	13,200	6,300	2,100	56,200	42,700	\$120,500
5	11,400	5,400	13,700	7,200	3,500	\$41,200
6	0	0	0	0	0	\$0
7	8,100	3,800	36,500	26,900	0	\$75,300
8	9,000	4,300	9,100	32,900	0	\$55,300
9	11,100	5,300	16,000	9,300	0	\$41,700
10	6,000	2,800	6,300	7,100	0	\$22,200
11	2,400	1,100	14,200	4,800	0	\$22,500
<b>TOTALS</b>	<b>\$82,800</b>	<b>\$39,200</b>	<b>\$126,600</b>	<b>\$241,200</b>	<b>\$87,200</b>	<b>\$577,000</b>

Treadway Stabilization includes ditch and crown fill, haul-in fill and wetland fill.

\* Cost estimates may change considerably depending on specifications of an actual project. Further cost analysis is included for each identified section of trail to provide a better understanding of how these costs are associated to the trail.

Source: DNR, Unpublished Data, 2006.