Status of Summer Trail Use (2007-09) on Five Paved State Bicycle Trails and Trends Since the 1990s

The five trails are:

Paul Bunyan, Heartland, Root River & Harmony-Preston Valley, Douglas, and segment of Paul Bunyan near Lake Bemidji State Park and City of Bemidji

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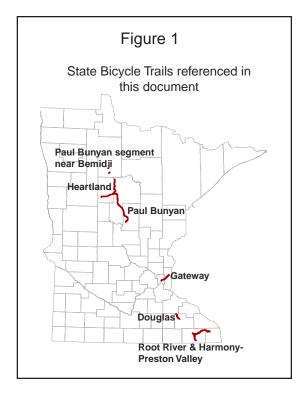
Introduction

In the 1990s, the MN DNR conducted ten studies of paved state bicycle trails, which at the time represented nearly all such trails (Reference 1). Five of those trails have been revisited since 2007, providing a fresh perspective on trail use and the characteristics of the user population

(Figure 1). Further trail updates are likely over the next few years.

This report is a summary of the findings from the most recent trail studies. Attention is focused on both the current status of summer trail use and on trends since the 1990s, the latter because trail use and the people who use trails have changed over the last decade. For those wanting more detailed results, a full set of tables of study findings can be found in Appendix A.

Three of the five trails studied in the last few years are dominated by "tourist" users, who have traveled a long distance from home to the trail (Table 1). The Paul Bunyan and Heartland tourist trails are in the north central lakes region of the state, a



region that is primarily a water-recreation destination area with a large concentration of lakeside resorts and vacation homes (trail maps are in Appendix A). The Root River & Harmony-Preston Valley Trail is situated in a rugged forested landscape in southeastern Minnesota, a place that has developed into a noted tourist destination. The trail is one of the key attractors of tourists to the area.

The other two trails are dominated by local users, most of whom live within a few miles of the trail. The Douglas Trail extends northward out of Rochester, and the segment of the Paul Bunyan Trail near Lake Bemidji State Park is heavily used by residents of Bemidji.

Tourist and local-use trails exhibit a variety of differences, including the mix of trail activities, characteristics of trail users, and trip-spending patterns. For these reasons, report tables separate the trail types for ease of comparison.

 $Table \ 1$ Update studies conducted on tourist and local-use trails in period from 2007 to 2009

		Tourist trails	Local-use trails		
Trail-use statistic	Paul Bunyan* 2007	Heartland* 2007-08	RR-HPV* 2008-09	Douglas* <u>2009</u>	PB-BSP* 2009
• Median <u>miles</u> of users from home	120	125	120	3	5
• Percent of use from within 10 miles of the trail	33%	29%	9%	83%	71%
• Percent of use from over 50 miles of the trail	59%	62%	70%	7%	21%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

Methodology

The trail studies have two components: counting users by trail activity, and collecting user characteristics and opinions through a mail survey (survey instrument is in Appendix B). For the first component, a field person travels the trail and counts users during nominal one-hour sampling blocks (Table 2). For the second component, the field person recruits users for a mail survey by getting the users name and address; a mail survey is then sent to a few days later. Both the survey and counting dates, times and places follow a statistical sampling plan. Sample counts are statistically projected to full summer use quantities.

Who are the trail users?

A demographic profile of trail users can be formed by comparing the users from Minnesota to the general Minnesota population (Reference 2). Minnesotans make up nearly 80 percent (77%) of use of the five trails studied between 2007 and 2009.

Minnesota trail users in the 41 to 65 age range are over-represented on the trails; they comprise one-third of the general population and just over half of trail users (Table 3). All other age classes are under-represented. Teens and children are the

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Table 2

Administration of trail studies

Item	Paul Bunyan* 2007	Heartland* 2007-08	RR-HPV* 2008-09	Douglas* 2009	PB-BSP* 2009
Trail-use counts	400		201		
Trail-use segment counts	199	222	226	70	66
Number of trail segments	7	6	7	2	2
Use counts per segment	28	37	32	35	33
Trail-user surveys					
Survey contacts	351	347	345	421	443
Valid addresses	350	343	343	409	437
Surveys returned	308	299	231	305	324
Return rate	88%	87%	67%	75%	74%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

most under-represented; together they make up 25 percent of the population and only 16 percent of trail users.

Trail users from Minnesota are comprised of largely equal portions of females and males, same as the general population.

The large majority of Minnesota trail users are white (98%) and non-Hispanic (99+%). Few users (2%) are non-white and/or Hispanic, while the Minnesota population has 15% in this race and ethnicity category.

Minnesota trail users (25 years old or older) are well educated, similar to Minnesota state park visitors (Reference 3). Nearly two-thirds (65%) have at least a bachelor's degree, which is twice as high as the general population.

Lastly, Minnesota trail users have higher annual household incomes (median near \$75,000) than the general population (median near \$58,000).

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Table 3

Demographic characteristics of Minnesotans who use state trails in the five studies from 2007 to 2009

(Notes: Minnesotans account for 77 percent of the use of the five trails. Minnesota population characteristic estimates from U.S. Census Bureau: age, gender and race/ethnicity are for 2008; educational attainment is for 2007; and household income is for 2007-08)

Characteristic	MN Trail users (percent)	MN population, 2007-08 (percent)
A. Age Class		
Children (<13)	12%	17%
Teens (13-18)	4%	8%
Adults (19-40)	24%	30%
Adults (41-65)	51%	33%
Adults (66+)	<u>9%</u>	<u>12%</u>
Total	100%	100%
Median age	45.8	37.3
B. Gender		
Female	49%	50%
Male	<u>51%</u>	<u>50%</u>
Total	100%	100%
C. Race and ethnicity		
Race		
White	98%	89%
Non-white	<u>2%</u>	<u>11%</u>
Total	100%	100%
T		
Ethnicity	0.20/	407
Hispanic/Latino	0.3%	4%
Non-Hispanic/Latino	100%	<u>96%</u>
Total	100%	100%
Race & Ethnicity		
White, Non-Hispanic/Latino	98%	85%
Non-white and/or Hispanic/Latino	<u>2%</u>	<u>15%</u>
Total	100%	100%
D. Educational attainment (age 25-	<u>+)</u>	
High school graduate or higher	99%	91%
Bachelor's degree or higher	65%	31%
E Harrick ald fragmen		
E. Household income under \$30000	9%	(no detail)
\$30000 to \$39999	9% 7%	(no detail)
\$40000 to \$49999	7% 7%	
\$50000 to \$59999 \$60000 to \$74999	10%	
	15%	
\$75000 to \$99999	20%	
over \$100000	<u>32%</u>	

Near \$75,000

Median income

\$57,607

Trail use characteristics

The trails receive between 25,000 and 125,000 hours of use during the summer (Table 4). Overall use is split about 45% to 55% between weekends/holidays and weekdays, respectively, with all the trails having a day-of-week split in the range of 40%/60% to 60%/40%, a range commonly found in outdoor recreation studies. Because weekends/holidays are fewer than weekdays, the typical weekend/holiday has substantially more use than the typical weekday (some 70% more on average).

Table 4
Summer trail use by day of week and activity

Trail use measure	Combined (percent)	Paul Bunyan* (percent)	Tourist trails Heartland* (percent)	RR-HPV* (percent)	<i>Local-u</i> Douglas* (<u>percent)</u>	se trails PB-BSP* (percent)
Total hours of summer use	370,761	81,711	74,419	123,410	64,869	26,352
Percent by day of week						
Weekends/holidays (%)	46%	42%	40%	53%	43%	49%
Weekdays (%)	54%	58%	60%	47%	57%	51%
Percent by activity						
Bike (%)	70%	66%	65%	87%	55%	52%
Skate (%)	4%	6%	4%	1%	4%	9%
Walk/hike (%)	20%	23%	24%	11%	28%	25%
Run/jog (%)	5%	5%	3%	1%	13%	6%
Other (%)	2%	1%	5%	0%	0%	9%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

Biking is by far the top activity. Biking is particularly dominant on the tourist trails, especially the Root River & Harmony-Preston Valley Trail. Trail users who are a long distance from home are predominately biking (e.g., 90% of those over 100 mile from home are biking), while near-home trail users are more an even mix of biking and walking/jogging/skating (e.g., those within 10 miles of home are about 50%/50% split between biking and other activities). The local-use trails reflect this more even mix of biking and other activities.

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

A majority of trail users on the tourist trails are over 100 mile of home (Table 5). Both the Paul Bunyan and Heartland Trail, however, have a sizable local user base originating within 10 miles of the trail; the Root River & Harmony-Preston Valley Trail receives minimal use from local users. The Paul Bunyan draws about onethird of users from the Twin Cities, while the other two tourist trails draw more from out of state.

Table 5 Market areas of summer trail use

Market measure Combined (percent) Paul Bunyan* (percent) Heartland* (percent) RR-HPV* (percent) Douglas* (percent) PB-BSP* (percent) Percent of use by travel distance from home 35% 33% 29% 9% 83% 71% 10 miles or less 13% 8% 9% 21% 10% 8% 50.1 to 100 miles 8% 5% 8% 12% 4% 4% over 100 miles 44% 54% 54% 58% 3% 18% Total percent 100% 100% 100% 100% 100% 100% 100% Percent of use by origin Local counties of trail location Seven-county Twin Cities 37% 35% 32% 11% 83% 70% Rest of Minnesota 20% 17% 24% 27% 8% 11% Subtotal Minnesota 23% 15% 27% 41% 2% 10% Outside of Minnesota 23% 15% 27% 41% 2% 10% Median miles				Local-use trails			
distance from home 10 miles or less 35% 33% 29% 9% 83% 71% 10.1 to 50 miles 13% 8% 9% 21% 10% 8% 50.1 to 100 miles 8% 5% 8% 12% 4% 4% 4% over 100 miles 44% 54% 54% 58% 3% 18% Total percent 100% 100% 100% 100% 100% 100% 100% Percent of use by origin Local counties of trail location 37% 35% 32% 11% 83% 70% Seven-county Twin Cities 19% 33% 17% 20% 6% 9% Rest of Minnesota 20% 17% 24% 27% 8% 11% Subtotal Minnesota 77% 85% 73% 59% 98% 90% Outside of Minnesota 23% 15% 27% 41% 2% 10% Median miles of travel to the tr	Market measure	comomea	-			0	
10 miles or less 35% 33% 29% 9% 83% 71% 10.1 to 50 miles 13% 8% 5% 8% 12% 4% 4% 4% 50.1 to 100 miles 44% 54% 54% 54% 58% 3% 18% 100%	Percent of use by travel						
10.1 to 50 miles	distance from home						
Solid to 100 miles 8% 5% 8% 12% 4% 4% 4%	10 miles or less	35%	33%	29%	9%	83%	71%
Over 100 miles 44% 54% 54% 58% 3% 18% Total percent 100%	10.1 to 50 miles	13%	8%	9%	21%	10%	8%
Percent of use by origin Local counties of trail location 37% 35% 32% 11% 83% 70% 5even-county Twin Cities 19% 33% 17% 20% 6% 9% 11% 85w 11% 5ubtotal Minnesota 20% 17% 24% 27% 8% 11% 5ubtotal Minnesota 23% 15% 27% 41% 2% 10% 100%	50.1 to 100 miles	8%	5%	8%	12%	4%	4%
Percent of use by origin Local counties of trail location 37% 35% 32% 11% 83% 70% Seven-county Twin Cities 19% 33% 17% 20% 6% 9% Rest of Minnesota 20% 17% 24% 27% 8% 11% Subtotal Minnesota 77% 85% 73% 59% 98% 90% Outside of Minnesota 23% 15% 27% 41% 2% 10% Total percent 100% 100% 100% 100% 100% 100% 100% Median miles of travel to the trail All activities 40 120 125 120 3 5 Bike 100 140 168 120 4 5	over 100 miles	44%	54%	<u>54%</u>	<u>58%</u>	3%	18%
Local counties of trail location 37% 35% 32% 11% 83% 70% Seven-county Twin Cities 19% 33% 17% 20% 6% 9% Rest of Minnesota 20% 17% 24% 27% 8% 11% Subtotal Minnesota 77% 85% 73% 59% 98% 90% Outside of Minnesota 23% 15% 27% 41% 2% 10% Total percent 100% 100% 100% 100% 100% 100% Median miles of travel to the trail All activities 40 120 125 120 3 5 Bike 100 140 168 120 4 5	Total percent	100%	100%	100%	100%	100%	100%
Median miles of travel to the trail All activities 40 120 125 120 3 5 Bike 100 140 168 120 4 5	Local counties of trail location Seven-county Twin Cities Rest of Minnesota Subtotal Minnesota Outside of Minnesota	19% 20% 77% 23%	33% 17% 85% 15%	17% 24% 73% 27%	20% 27% 59% 41%	6% 8% 98% 2%	9% 11% 90% 10%
All activities 40 120 125 120 3 5 Bike 100 140 168 120 4 5	Total percent	100%	100%	100%	100%	100%	100%
	All activities						
	Walk/hike/run/jog	4	6	100	15	3	3

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

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^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

The local-use trails, of course, are dominated by people who live near the trail (Table 5). The Douglas Trail has little tourist use. The Bemidji segment of the Paul Bunyan has a modest portion of long-distance users, many of whom are from out of state; two-thirds (65%) of these long-distance users are visitors to Lake Bemidji State Park, which is located on the trail.

For the local-use trails, both bikers and pedestrian users (walkers/joggers) live near the trail (Table 5). Similarly on the tourist trails, the pedestrian users are primarily locals. Bikers, in contrast, comprise the long-distance users on the tourist trails.

Users of the tourist trails tend to be older than users of local-use trails (Table 6). The median age of tourist trails users is in the 46 to 51 age range, with a majority of users in the age bracket from 41 to 65. (For perspective, the median age of the Minnesota population is 37.3 in 2008.) Local-use trail users have lower median ages and are more dominated by children and young adults. The segment of the Paul Bunyan near Bemidji has a particularly young user population.

Table 6
Summer trail use by age class

			Tourist trails	Local-u	se trails	
	Combined	Paul Bunyan*	Heartland*	RR-HPV*	Douglas*	PB-BSP*
Age class	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
~~	1001	0.01	4004	0.04	101	4
Children (<13)	10%	8%	10%	9%	13%	16%
Teens (13-18)	4%	4%	4%	3%	5%	10%
Adults (19-40)	23%	18%	20%	21%	31%	33%
Adults (41-65)	53%	56%	55%	59%	44%	35%
Adults (66+)	<u>10%</u>	<u>14%</u>	<u>11%</u>	<u>8%</u>	<u>8%</u>	<u>6%</u>
Total percent	100%	100%	100%	100%	100%	100%
Median age	47.3	50.3	46.5	50.8	42.7	32.9

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

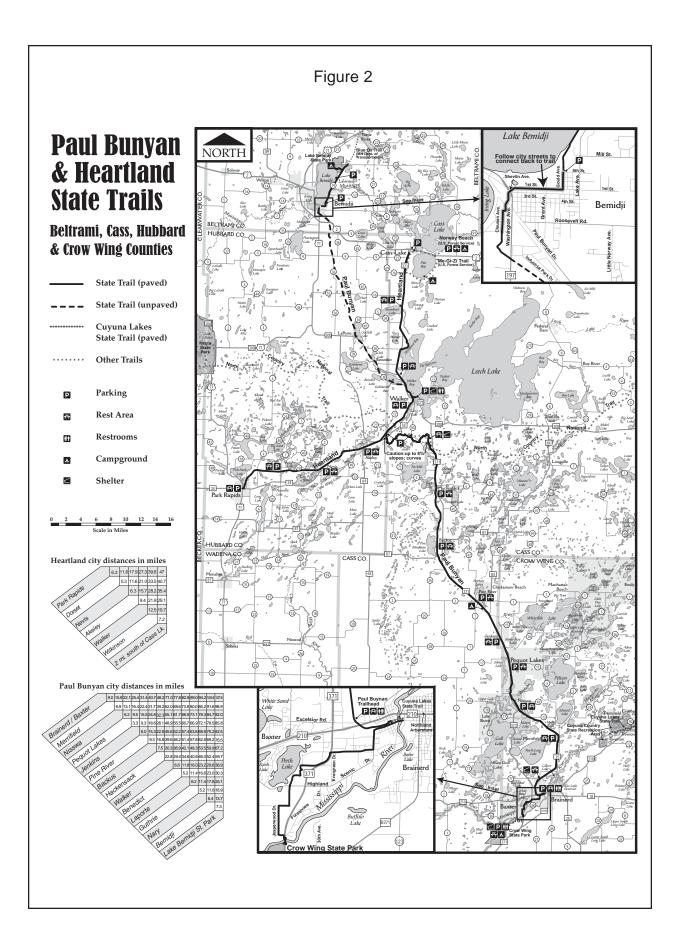
^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

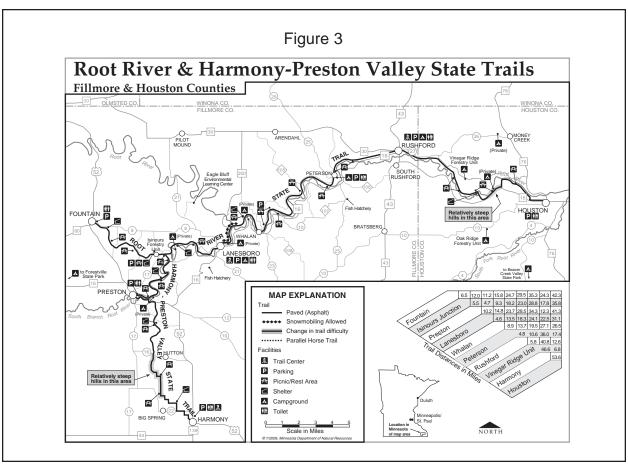
Use on all the trails is concentrated, which is undoubtedly due to variations in the concentration of potential users along the trail (permanent residents, resort/ campground guests, and seasonal home owners) and differences in the attractiveness of the trail segments. Along the Paul Bunyan Trail, most of the use is concentrated in the more developed south, especially in the segment from Merrifield to Pequot Lakes, which includes the resort city of Nisswa (Table 7; Figure 2). The segments of the Heartland Trail extending eastward out of Park Rapids are most intensity used; the segments from Park Rapids to Nevis account for over half of trail use (54%), but only one-fourth of trail miles (Figure 2). Especially concentrated is use on the Root River & Harmony-Preston Valley Trail, where over half of the use (53%) occurs on the nine-mile segment from Isinours to Whalan, which includes the resort city of Lanesboro (Figure 3). The intensity of use on the Lanesboro segment is one of the highest recorded in these recent studies. A similarly high intensity of use occurs on the segment of the Douglas Trail extending out of Rochester (Figure 4). Also intensely used is the short southern segment of the Paul Bunyan Trail near Bemidji (Figure 2). This southern segment is nearer the city center than the northern segment, and is situated along the shore of Lake Bemidji, a highly scenic location.

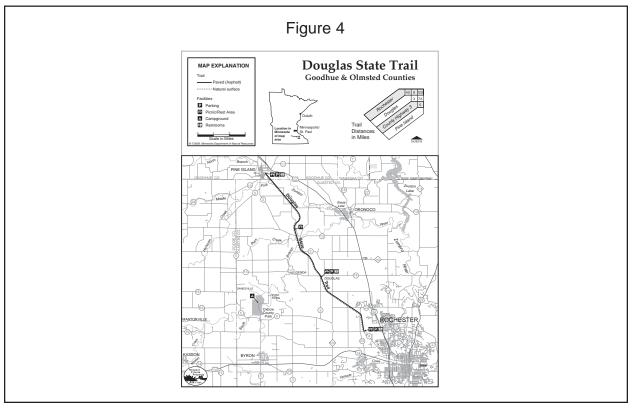
Since the 1990s, all of the trails, except the Douglas, have been extended. The extension on the segment of the Paul Bunyan near Bemidji is the short southern segment, which is more intensely used than the older segment in the north. On the other trails, the new segments have a lower intensity of use than the old segments. The new segments on the Paul Bunyan Trail (Hackensack to Heartland Trail) comprise 25 percent of trail miles, but only 15 percent of the trail use. Similarly, the new segments on the Heartland Trail (Walker to Cass Lake) comprise 42 percent of trail miles and 18 percent of trail use, while the new segments on the Root River & Harmony-Preston Valley Trail (Preston to Harmony, and Money Creek Woods to Houston) comprise 32 percent of trail miles and 10 percent of trail use.

Table 7
Summer trail use by trail segment

Summer trail use by trail segment								
	Trail user-hours	Percent of user-hours	Miles of trail	User-hours per trail mile				
A. Paul Bunyan Trail, 2007								
Overall	81,711	100%	64.2	1,273				
Trail segment								
Baxter to Merrifield	15,812	19%	9.0	1,757				
Merrifield to Pequot Lakes	34,687	42%	13.1	2,648				
Pequot Lakes to Pine River	10,573	13%	9.3	1,137				
Pine River to Backus	3,656	4%	9.3	393				
Backus to Hackensack	5,111	6%	7.5	682				
Hackensack to Trail shelter Trail shelter to Heartland Trail	9,531 2,341	12% 3%	7.2 8.8	1,324 266				
D. Haartland Trail 2007								
B. Heartland Trail, 2007								
Overall	74,419	100%	47.0	1,583				
Trail segment	21 224	2007	6.3	2 205				
Park Rapids to Dorset	21,324	29%	6.3	3,385				
Dorset to Nevis	18,931	25%	5.3	3,572				
Nevis to Akeley Akeley to Walker	9,791 10,832	13% 15%	6.3 9.4	1,554 1,152				
Walker to Cass CR #142	10,632	14%	9.4 8.6	1,132				
Cass CR #142 to Cass Lake	2,869	4%	11.1	258				
C. Root River and Harmony-Preston Va Overall Trail segment	lley Trails, 200	100%	59.9	2,060				
Overall Trail segment Fountain to Preston Preston to Harmony Isinours to Whalan Whalan to Peterson Peterson to Rushford Rushford to Money Creek Woods	123,410 21,690 5,872 64,820 14,599 5,384 5,086		59.9 12 12.3 9.3 8.9 4.8 5.8 6.8	2,060 1,808 477 6,970 1,640 1,122 877 876				
Overall Trail segment Fountain to Preston Preston to Harmony Isinours to Whalan Whalan to Peterson Peterson to Rushford Rushford to Money Creek Woods Money Creek Woods to Houston	123,410 21,690 5,872 64,820 14,599 5,384	100% 18% 5% 53% 12% 4% 4%	12 12.3 9.3 8.9 4.8 5.8	1,808 477 6,970 1,640 1,122 877				
Overall Trail segment Fountain to Preston Preston to Harmony Isinours to Whalan Whalan to Peterson Peterson to Rushford Rushford to Money Creek Woods Money Creek Woods to Houston D. Douglas Trail, 2009	123,410 21,690 5,872 64,820 14,599 5,384 5,086 5,958	100% 18% 5% 53% 12% 4% 4% 5%	12 12.3 9.3 8.9 4.8 5.8 6.8	1,808 477 6,970 1,640 1,122 877 876				
Overall Trail segment Fountain to Preston Preston to Harmony Isinours to Whalan Whalan to Peterson Peterson to Rushford Rushford to Money Creek Woods Money Creek Woods to Houston D. Douglas Trail, 2009 Overall	123,410 21,690 5,872 64,820 14,599 5,384 5,086	100% 18% 5% 53% 12% 4% 4%	12 12.3 9.3 8.9 4.8 5.8	1,808 477 6,970 1,640 1,122 877				
Overall Trail segment Fountain to Preston Preston to Harmony Isinours to Whalan Whalan to Peterson Peterson to Rushford Rushford to Money Creek Woods Money Creek Woods to Houston D. Douglas Trail, 2009 Overall Trail segment	123,410 21,690 5,872 64,820 14,599 5,384 5,086 5,958	100% 18% 5% 53% 12% 4% 4% 5%	12 12.3 9.3 8.9 4.8 5.8 6.8	1,808 477 6,970 1,640 1,122 877 876				
Overall Trail segment Fountain to Preston Preston to Harmony Isinours to Whalan Whalan to Peterson Peterson to Rushford Rushford to Money Creek Woods Money Creek Woods to Houston D. Douglas Trail, 2009 Overall	123,410 21,690 5,872 64,820 14,599 5,384 5,086 5,958	100% 18% 5% 53% 12% 4% 4% 5%	12 12.3 9.3 8.9 4.8 5.8 6.8	1,808 477 6,970 1,640 1,122 877 876				
Overall Trail segment Fountain to Preston Preston to Harmony Isinours to Whalan Whalan to Peterson Peterson to Rushford Rushford to Money Creek Woods Money Creek Woods to Houston D. Douglas Trail, 2009 Overall Trail segment Rochester to Douglas	123,410 21,690 5,872 64,820 14,599 5,384 5,086 5,958 64,869 36,169 28,700	100% 18% 5% 53% 12% 4% 4% 5% 100%	12 12.3 9.3 8.9 4.8 5.8 6.8	1,808 477 6,970 1,640 1,122 877 876				
Overall Trail segment Fountain to Preston Preston to Harmony Isinours to Whalan Whalan to Peterson Peterson to Rushford Rushford to Money Creek Woods Money Creek Woods to Houston D. Douglas Trail, 2009 Overall Trail segment Rochester to Douglas Douglas to Pine Island E. Paul Bunyan Trail segment near Lake Overall Trail segment	123,410 21,690 5,872 64,820 14,599 5,384 5,086 5,958 64,869 36,169 28,700	100% 18% 5% 53% 12% 4% 4% 5% 100% 56% 44%	12 12.3 9.3 8.9 4.8 5.8 6.8	1,808 477 6,970 1,640 1,122 877 876 5,190 7,234 3,827				
Overall Trail segment Fountain to Preston Preston to Harmony Isinours to Whalan Whalan to Peterson Peterson to Rushford Rushford to Money Creek Woods Money Creek Woods to Houston D. Douglas Trail, 2009 Overall Trail segment Rochester to Douglas Douglas to Pine Island E. Paul Bunyan Trail segment near Lake	123,410 21,690 5,872 64,820 14,599 5,384 5,086 5,958 64,869 36,169 28,700	100% 18% 5% 53% 12% 4% 4% 5% 100% 56% 44%	12 12.3 9.3 8.9 4.8 5.8 6.8	1,808 477 6,970 1,640 1,122 877 876 5,190 7,234 3,827				







Trail use trends

Trend information is available for the state trails and regional trails in the Twin Cities (Table 8). When viewing the use trends on Table 8, it is important to keep a few methodology details in mind:

- 1. Trends are assessed over the same trail and trail segments. For example, trail segments added between studies are excluded when trends are assessed. This is a standard approach. It is the same trend method retailers apply when they report "same-store" sales change.
- 2. For Twin Cities regional trails (part B of Table 8), use monitoring has expanded to more and more trails since the late 1990s, which is why more trails are included in the trend analysis in the years following 1998.
- 3. Trail studies are done over different lengths of time. To adjust for this—so changes can be compared between trails—each trend is put on a ten-year basis by assuming a constant linear change in user-hours per year.

Trail-use trends are generally—though not entirely—negative for both state trails and Twin Cities regional trails (Table 8). The use declines tend to be larger for the tourist trails (Paul Bunyan, Heartland, and Root River & Harmon-Preston Valley), although some local-use trails (Gateway and regional trails in Twin Cities) are comparable. One reason offered for a broad downward trends in use is the expansion of trail opportunities (which has occurred), and resulting spread of trail use among more trails. Unfortunately, it is not possible to estimate the contribution of expanded opportunities to trail-use decline, because the information required for such an estimate is not available.

The Douglas Trail is different; it has a sizable increase in use. The reason(s) for the Douglas increase is unknown, but speculation centers on three factors: a recent community fitness public-relations campaign, expansion of City of Rochester out along the trail (the trail segment nearest Rochester has the largest increase), and attractiveness of the trail to potential users. When first studied in the 1990s, the surface of the Douglas was in poor condition, and users rated the Douglas the lowest of all the trails. The surface was repaved prior to the recent study and, trail users now rate it favorably and similar to the other trails.

Also different, it appears, is the segment of the Paul Bunyan Trail near Lake Bemidji State Park and City of Bemidji. Between studies, the comparable segment (north segment) had a drop in use, but the drop was not statistically significant (all other trends on the state trails are statistically significant at the .05

Table 8

Recent use trends for non-motorized trails

A. Summer use trends on state trails*				
Trail, study years, and comparable segment	First study Total summer user hours	Second study Total summer user hours	Percent change	Standardized 10-year trend:** Percent change
Paul Bunyan, 1996 to 2007, Baxter to Hackensack	148,760	69,838	-53%	-48%
Heartland, 1998 to 2007-08, Park Rapids to Walker	118,337	60,878	-49%	-54%
Root River & Harmony-Preston Valley (RR & HPV), 1997 to 2008-09, Fountain to Preston and Isinours to Money Creek Woods	178,762	111,580	-38%	-34%
Gateway, 1997 to 2003, Cayuga Street to Pine Point Park	181,952	148,062	-19%	-31%
Douglas, 1997 to 2009, Rochester to Pine Island	45,810	64,869	42%	35%
Paul Bunyan State Trail Near Lake Bemidji State Park, 1998 to 2009, Mississippi River to northern terminus	17,488	14,524	-17%	-15%

^{*} Summer extends from the Saturday of Memorial Day weekend to Labor Day. Because summers vary in length, and because this affects comparability between studies, summer length is set by the second study.

^{**} Assumes the same linear change in user-hours per year.

B. Annual use trends on Twin Cities metropolitan regional trails Metro regional trails (annual occasions in 000's)	First year	<u>Year 2007</u>	Percent change	Standardized 10-year trend:** Percent change
Nine trails from 1998 to 2007	3,941	3,516	-11%	-12%
Eleven trails from 1999 to 2007	5,256	3,980	-24%	-30%
Thirteen trails from 2000 to 2007	5,052	4,209	-17%	-24%
Fifteen trails from 2001 to 2007	5,437	4,547	-16%	-27%
** Assumes the same linear change in user-hours per year.				

level; trends on regional trails in the Twin Cities have not been assessed statistically). In other words, trail use is stable from a statistical perspective.

The state-trail use declines tend to be larger on weekends/holidays than on weekdays, and the increases are correspondingly smaller on weekends/holidays (Table 9). The segment of the Paul Bunyan near Bemidji is an exception to this pattern, and exhibits a larger decline on weekdays. The new southern segment of this trail—added after the 1990s study—is heavily used on weekdays and may have drawn a fair amount of weekday use away from the northern segment, which is the segment compared between studies.

Table 9

Percent change in summer use (1996-98 to 2007-09) by day of week and activity (trends are assessed over trail segments that existed in both the earlier and later studies; segments added between studies are excluded from trend statistics)

Trail use measure	Combined	Paul Bunyan* Heartland* RR-HPV*			Local-u <u>Douglas*</u>	se trails PB-BSP*
Overall	-37%	-53%	-49%	-38%	42%	-17%
By Day of Week						
Weekends/Holidays	-45%	-60%	-60%	-46%	35%	6%
Weekdays	-27%	-47%	-37%	-24%	47%	-35%
By Trail Activity						
Bike	-43%	-58%	-56%	-39%	29%	-2%
Skate	-72%	-79%	-67%	-84%	-4%	-70%
Walk/hike	1%	-2%	-27%	1%	54%	-14%
Run/jog	111%	49%	83%	187%	206%	-23%
Walk/hike + Run/jog	13%	4%	-21%	6%	83%	-16%

^{*} Paul Bunyan, 1996 & 2007, Baxter to Hackensack.

By activity, the declines are sharpest for in-line skating (Table 9). Only on the Douglas trail—with had a sizable increase in overall use—did in-line skating not drop substantially. Biking tends to decrease the second most, or increase the second least. The pedestrian activities involving walking and running tend to show either an increase or a small decrease. Once again, the segment of the Paul Bunyan near Bemidji is the exception, likely for the same reason noted above. The new southern segment of the trail may have drawn off a large amount of pedestrian activity that is more heavily concentrated on weekdays (e.g., routine exercise).

Market area has a large effect on trends in trail use (Table 10). Use declines the least (or increases the most) for the local market, and declines the most (or increases the least) for the longer-distance markets. This market effect is connected to the preceding activity and day of week trends: Locals, who exhibited the smallest decline in use (or largest increase), dominate walking/jogging, routine exercise activities mainly done on weekdays. Tourists dominate biking, and are more likely than locals to use the trail on weekends/holidays.

^{*} Heartland, 1998 & 2007-08, Park Rapids to Walker

^{*} RR-HPV, 1997 & 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Money Creek Woods (Root River) and Preston to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 1997 & 2009, Rochester to Pine Island

^{*} PB-BSP, 1998 & 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji; segment from Mississippi River to northern terminus

Table 10

Percent change in summer use (1996-98 to 2007-09) by travel distance from permanent home (trends are assessed over trail segments that existed in both the earlier and later studies; segments added between studies are excluded from trend statistics)

Travel measure	Combined	Paul Bunyan*	- Tourist trails Heartland*	<u>RR-HPV*</u>	Local-u Douglas*	se trails PB-BSP*
Overall	-37%	-53%	-49%	-38%	42%	-17%
Travel distance 10 miles or less 10.1 to 100 miles over 100 miles	-9% -55% -41%	-46% -61% -55%	-28% -72% -43%	-2% -53% -28%	48% 17% 17%	-12% -32% -18%

^{*} Paul Bunyan, 1996 & 2007, Baxter to Hackensack.

For ages, children and teens (under 19) have the steepest decline (or smallest increase) in use, while adults over 40 have the smallest decline (or largest increase)(see Table 11). One consequence of this age-class change is a rise in the median age of the trail user population. The largest increase in median age is nearly nine years (8.8 years) on the Root River & Harmony-Preston Valley Trail, and the smallest is 4.6 years on the Douglas. For perspective, the general Minnesota population has a median-age increase of 2.5 years over these same years. The trail user populations are aging faster than the general population, and this is also the case for the one trail (Douglas) that has a sharp increase in use.

A portion of the age-class use change is accounted for by age-class gains and losses in the general population (e.g., aging of the baby boomers). To control for this, trail use trends by age class are assessed on a per-capita basis (final column of Table 11). On a per-capita basis, the same general conclusions are found: children and teens have the steepest decline in use, while adults over 40 have the smallest decline. The differences between age classes, however, are notably smaller, and even the older age classes are declining on a per-capita basis.

A trail user population that is aging faster than the general population is one instance of a broad-based trend affecting nature-based outdoor recreation activities. This pattern of age change extends to nature-based parks, fishing, hunting, and wildlife watching, which are all the activities that can be reliably

^{*} Heartland, 1998 & 2007-08, Park Rapids to Walker

^{*} RR-HPV, 1997 & 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Money Creek Woods (Root River) and Preston to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 1997 & 2009, Rochester to Pine Island

^{*} PB-BSP, 1998 & 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji; segment from Mississippi River to northern terminus

Table 11

Percent change in summer use (1996-98 to 2007-09) by age class

(trends are assessed over trail segments that existed in both the earlier and later studies; segments added between studies are excluded from trend statistics)

	All tr	All trail users and no normalization for population growth between studies							
Age grouping	Combined	Paul Bunyan*		RR-HPV*	Local-u Douglas*	se trails PB-BSP*	Combined		
Overall	-30%		-49%	-38%	42%	-17%	-35%		
Age class 12 or younger 13 to 18 19 to 40 41 to 65 over 65	-51% -61% -42% -15% 4%	age classes in 1996 are not consitent with later studies	-71% -84% -56% -30% -24%	-52% -58% -55% -25% -3%	2% -10% 27% 70% 164%	-40% -3% -37% 4% 103%	-44% -54% -38% -35% -25%		
Change in median age of trail users (years)	6.7		7.4	8.8	4.6	5.7	4.5		

^{*} Paul Bunyan, 1996 & 2007, Baxter to Hackensack.

assessed for age-class trends (Reference 4). Furthermore, the trend is evident in Minnesota and the nation as a whole.

Trends in use are shared across trail segments. Each trail segment trends in the same direction as the entire trail (Table 12). It is interesting to note that there is a tendency for the most intensely used segments in the 1990s to decline the least or increase the most. On the Paul Bunyan, the most intensely used segment in the 1990s (Merrifield to Pequot Lakes) declined the least; the same is found for the most intensely used segment on the Heartland (Park Rapids to Nevis), while on the Root River & Harmony-Preston Valley the most intensely used segment (Isinours to Whalan) has the second lowest decline. On the Douglas, the most intensely used segment in the 1990s (Rochester to Douglas) increased the most.

^{*} Heartland, 1998 & 2007-08, Park Rapids to Walker

^{*} RR-HPV, 1997 & 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Money Creek Woods (Root River) and Preston to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 1997 & 2009, Rochester to Pine Island

^{*} PB-BSP, 1998 & 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji; segment from Mississippi River to northern terminus

Table 12

Percent change in summer use by trail segment

(trends are assessed over trail segments that existed in both the earlier and later studies; segments added between studies are excluded from trend statistics)

A. Paul Bunyan, 1996 to 2007 Overall	ē .			*
Segment	Trail and segment	Total summer	Total summer	
Segment	A. Paul Bunyan, 1996 to 2007			
Baxter to Merrifield 37,841 15,812 -58% Merrifield to Pequot Lakes 58,820 34,687 -41% Pequot Lakes to Pine River 25,505 10,573 -59% Pine River to Backus 13,687 3,656 -73% Backus to Hackensack 12,907 5,111 -60% B. Heartland, 1998 to 2007-08 Overall 118,337 60,878 -49% Segment Park Rapids to Nevis 55,997 40,255 -28% Nevis to Akeley 24,747 9,791 -60% Akeley to Walker 37,594 10,832 -71% C. Root River & Harmony-Preston Valley, 1997 to 2008-09 Overall 178,762 111,580 -38% Segment Fountain to Preston 37,978 21,690 -43% Isinours to Whalan 83,958 64,820 -23% Whalan to Peterson 31,922 14,599 -54% Peterson to Rushford 18,580 5,384 -71% Rushford to Money Creek Woc 6,324 5,086 -20% D. Douglas, 1997 to 2009 Overall 45,810 64,869 42% Segment Rochester to Douglas 22,905 36,169 58% Douglas to Pine Island 22,906 28,700 25% E. Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Overall 17,488 14,524 -17% Segment North (Mississippi River to 17,488 14,524 17% Segment North (Mississippi	Overall	148,760	69,838	-53%
Merrifield to Pequot Lakes 58,820 34,687 -41% Pequot Lakes to Pine River 25,505 10,573 -59% Pine River to Backus 13,687 3,656 -73% Backus to Hackensack 12,907 5,111 -60% B. Heartland, 1998 to 2007-08 Overall	Segment			
Pequot Lakes to Pine River 25,505 10,573 -59% Pine River to Backus 13,687 3,656 -73% Backus to Hackensack 12,907 5,111 -60%	Baxter to Merrifield	37,841	15,812	-58%
Pine River to Backus Backus to Hackensack 12,907 5,111 -60% B. Heartland, 1998 to 2007-08 Overall 118,337 60,878 -49% Segment Park Rapids to Nevis Nevis to Akeley 24,747 9,791 -60% Akeley to Walker 37,594 10,832 -71% C. Root River & Harmony- Preston Valley, 1997 to 2008-09 Overall 178,762 111,580 -38% Segment Fountain to Preston 15inours to Whalan 15inours to Whalan 178,762 111,580 -38% Segment Fountain to Preston 18,580 19,22 14,599 -54% Peterson to Rushford 18,580 5,384 -71% Rushford to Money Creek Woc 6,324 5,086 -20% D. Douglas, 1997 to 2009 Overall 45,810 45,810 64,869 42% Segment Rochester to Douglas 22,905 36,169 58% Douglas to Pine Island 22,906 28,700 25% E. Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Overall 17,488 14,524 -17% Segment North (Mississippi River to 17,488 14,524 -17%		58,820	34,687	-41%
Backus to Hackensack 12,907 5,111 -60%	Pequot Lakes to Pine River	25,505	10,573	-59%
B. Heartland, 1998 to 2007-08 Overall	Pine River to Backus	13,687	3,656	-73%
Overall 118,337 60,878 -49% Segment Park Rapids to Nevis 55,997 40,255 -28% Nevis to Akeley 24,747 9,791 -60% Akeley to Walker 37,594 10,832 -71% C. Root River & Harmony-Preston Valley, 1997 to 2008-09 Overall 178,762 111,580 -38% Segment Fountain to Preston 37,978 21,690 -43% Isinours to Whalan 83,958 64,820 -23% Whalan to Peterson 31,922 14,599 -54% Peterson to Rushford 18,580 5,384 -71% Rushford to Money Creek Woc 6,324 5,086 -20% D. Douglas, 1997 to 2009 Overall 45,810 64,869 42% Segment Rochester to Douglas 22,905 36,169 58% Douglas to Pine Island 22,906 28,700 25% E. Paul Bunyan segment near	Backus to Hackensack	12,907	5,111	-60%
Segment	B. Heartland, 1998 to 2007-08			
Park Rapids to Nevis Nevis to Akeley 24,747 9,791 -60% Akeley to Walker 37,594 10,832 -71% C. Root River & Harmony- Preston Valley, 1997 to 2008-09 Overall 178,762 111,580 -38% Segment Fountain to Preston 37,978 21,690 -43% Isinours to Whalan 83,958 64,820 -23% Whalan to Peterson 31,922 14,599 -54% Peterson to Rushford 18,580 5,384 -71% Rushford to Money Creek Woc 6,324 5,086 -20% D. Douglas, 1997 to 2009 Overall 45,810 45,810 64,869 42% Segment Rochester to Douglas Douglas to Pine Island 22,906 28,700 25% E. Paul Bunyan segment near Lake Bemidji, 1998 to 2009 Overall 17,488 14,524 -17% Segment North (Mississippi River to	- · · · · · · · · · · · · · · · · · · ·	118,337	60,878	-49%
Nevis to Akeley	0	55.007	40.255	2004
C. Root River & Harmony- Preston Valley, 1997 to 2008-09 Overall 178,762 111,580 -38% Segment Fountain to Preston 37,978 21,690 -43% Isinours to Whalan 83,958 64,820 -23% Whalan to Peterson 31,922 14,599 -54% Peterson to Rushford 18,580 5,384 -71% Rushford to Money Creek Woc 6,324 5,086 -20% D. Douglas, 1997 to 2009 Overall 45,810 64,869 42% Segment Rochester to Douglas 22,905 36,169 58% Douglas to Pine Island 22,906 28,700 25% E. Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Overall 17,488 14,524 -17% Segment North (Mississippi River to 17,488 14,524 17%				
C. Root River & Harmony- Preston Valley, 1997 to 2008-09 Overall 178,762 111,580 -38% Segment Fountain to Preston 37,978 21,690 -43% Isinours to Whalan 83,958 64,820 -23% Whalan to Peterson 31,922 14,599 -54% Peterson to Rushford 18,580 5,384 -71% Rushford to Money Creek Woc 6,324 5,086 -20% D. Douglas, 1997 to 2009 Overall 45,810 64,869 42% Segment Rochester to Douglas 22,905 36,169 58% Douglas to Pine Island 22,906 28,700 25% E. Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Overall 17,488 14,524 -17% Segment North (Mississippi River to 17,488 14,524 17%	•			
Preston Valley, 1997 to 2008-09 Overall 178,762 111,580 -38% Segment	Akeley to Walker	37,594	10,832	-71%
Fountain to Preston 37,978 21,690 -43% Isinours to Whalan 83,958 64,820 -23% Whalan to Peterson 31,922 14,599 -54% Peterson to Rushford 18,580 5,384 -71% Rushford to Money Creek Woc 6,324 5,086 -20% D. Douglas, 1997 to 2009 Overall 45,810 64,869 42% Segment Rochester to Douglas 22,905 36,169 58% Douglas to Pine Island 22,906 28,700 25% E. Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Overall 17,488 14,524 -17% Segment North (Mississippi River to 17,488 14,524 17%	Overall	178,762	111,580	-38%
Isinours to Whalan	_	27.079	21 600	420/
Whalan to Peterson 31,922 14,599 -54% Peterson to Rushford 18,580 5,384 -71% Rushford to Money Creek Woc 6,324 5,086 -20% D. Douglas, 1997 to 2009 Overall 45,810 64,869 42% Segment Rochester to Douglas 22,905 36,169 58% Douglas to Pine Island 22,906 28,700 25% E. Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Overall 17,488 14,524 -17% Segment North (Mississippi River to 17,488 14,524 17%				
Peterson to Rushford 18,580 5,384 -71% Rushford to Money Creek Woc 6,324 5,086 -20% D. Douglas, 1997 to 2009 Overall 45,810 64,869 42% Segment Rochester to Douglas 22,905 36,169 58% Douglas to Pine Island 22,906 28,700 25% E. Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Overall 17,488 14,524 -17% Segment North (Mississippi River to 17,488 14,524 1796				
Rushford to Money Creek Woc 6,324 5,086 -20%				
D. Douglas, 1997 to 2009 Overall			·	
Overall 45,810 64,869 42% Segment Rochester to Douglas 22,905 36,169 58% Douglas to Pine Island 22,906 28,700 25% E. Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Overall 17,488 14,524 -17% Segment North (Mississippi River to 17,488 14,524 17%	Rushiold to Money Creek Woo	0,324	3,000	2070
Segment Rochester to Douglas 22,905 36,169 58% Douglas to Pine Island 22,906 28,700 25% E. Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Overall 17,488 14,524 -17% Segment North (Mississippi River to 17,488 14,524 17%	D. Douglas, 1997 to 2009			
Rochester to Douglas 22,905 36,169 58% Douglas to Pine Island 22,906 28,700 25% E. Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Overall 17,488 14,524 -17% Segment North (Mississippi River to 17,488 14,524 17%	Overall	45,810	64,869	42%
Douglas to Pine Island 22,906 28,700 25% E. Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Overall 17,488 14,524 -17% Segment North (Mississippi River to 17,488 14,524 17%	Segment			
E. Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Overall 17,488 14,524 -17% Segment North (Mississippi River to 17,488 14,524 1794	Rochester to Douglas	22,905	36,169	58%
Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Overall 17,488 14,524 -17% Segment North (Mississippi River to 17,488 14,524 17%	Douglas to Pine Island	22,906	28,700	25%
Segment North (Mississippi River to 17.488 14.524 1794	Lake Bemidji State Park and			
	Segment	17,488	14,524	-17%
		17,488	14,524	-17%

Experience while using the trail

When asked what they like most about the trail, four items rise to the top in virtually every case: the trail is scenic, quite/peaceful, a good place for exercise, and has no motorized vehicles (Table 13).

Table 13

What did you like most about the trail? (respondents could check multiple responses)

Response	Combined (percent)	Paul Bunyan* (percent)	Tourist trails Heartland* (percent)	RR-HPV*	Local-u Douglas* (percent)	PB-BSP* (percent)
Scenery, wildlife, wildflowers, birds, trees	87%	85%	86%	93%	80%	90%
Quiet, peaceful	86%	80%	91%	85%	87%	88%
It's a good place for exercise, to work out, to to keep in shape	78%	83%	83%	66%	87%	86%
No cars or motorized vehicles	73%	70%	75%	72%	74%	81%
Well-maintained, clean	66%	66%	65%	65%	68%	73%
It's fun	64%	56%	63%	70%	59%	74%
Like the trail surface	63%	62%	65%	63%	60%	71%
Easy, flat trail,	63%	62%	73%	58%	62%	63%
Little development, not commercial	63%	56%	70%	65%	58%	64%
Using the trail reduces tension, stress	59%	61%	60%	54%	62%	69%
Like the length	56%	54%	59%	56%	56%	54%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

Trail users experience few problems with other users. Some 80 to 90 percent checked "no problem" from a list of that response and 14 potential-problem responses (Table 14). Users of the local-use trails (Douglas and segment of Paul Bunyan near Bemidji) are more likely to report having a problem or conflict. When they did have a problem, the leading ones are trail users blocking traffic, users passing without warning, and problems with other people's pets. These leading problems tend to be the same for each trail.

Another potential problem is crowding, but nearly all trail users (94% or higher) indicated that it was not a concern during their outing (Table 15).

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Table 14

Did you have any problems or conflicts with other users?

(respondents could check multiple responses)

			Tourist trails		Local-u	se trails
	Combined	Paul Bunyan*	Heartland*	RR-HPV*	Douglas*	PB-BSP*
Response	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
• No problems with other trail users	86%	90%	91%	87%	77%	82%
Problems/conflicts with other users						
 Other trail users blocking traffic, not keeping right 	6%	5%	2%	8%	8%	8%
 Other trail users passing without warning 	5%	5%	1%	4%	9%	4%
 Problems with other people's pets 	3%	3%	0%	2%	8%	5%
 Other trail users going too fast 	2%	1%	1%	2%	5%	1%
 Unfriendly, discourteous behavior by others 	2%	1%	1%	1%	4%	3%
 Irresponsible or unsafe behavior by others 	1%	2%	0%	1%	2%	3%
 Other trail users created feelings of insecurity, or concerns about personal safety 	1%	1%	1%	0%	1%	1%
 Non-permitted trail uses (i.e., all-terrain vehicles, cars, motorcycles) 	1%	1%	0%	0%	1%	1%
 Problems with large groups or special events on the trail 	0%	0%	0%	1%	1%	2%
 Vandalism 	0%	0%	0%	1%	1%	1%
● Graffiti	0%	0%	0%	0%	1%	0%
 Discharge of firearms by other trail users 	0%	1%	0%	0%	1%	0%
 Conflicts with trail users not using the treadway designated for their use 	0%	0%	0%	0%	1%	0%
Other trail users going too slow	0%	0%	0%	1%	0%	1%
• Other	3%	2%	5%	1%	2%	6%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

Trail users give high marks in the recent studies to their overall trail experience (Table 16). Positive ratings of "excellent" and "good" are reported by nearly all trail users. And "excellent" ratings are well above "good" ratings, which is a rating pattern trail providers want to achieve. At present, the trails are rather uniformly rated, with "excellent" ratings reported by 61 to 71 percent of users. Consistent with the high ratings is the finding that virtually all users (99.7% in total) would recommend the trail to a friend.

Uniformity of ratings, however, was not experienced in the 1990s (Table 16). Then, the three tourist trails (Paul Bunyan, Heartland, and Root River & Harmony-Preston Valley) received superlative user ratings, some of the highest MN DNR has ever recorded for any activity or facility over the last 20 years. By

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

st Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Table 15
Was the trail too crowded for your enjoyment?

Response	Combined (percent)	Paul Bunyan* (percent)	Tourist trails Heartland* (percent)	RR-HPV* (percent)	Local-u Douglas* (percent)	se trails PB-BSP* (percent)
• No	96%	96%	100%	94%	95%	97%
• Yes, but I used the trail anyway	3%	3%	0%	4%	4%	2%
 Yes, so in the future I'll only use the trail at less busy times 	0%	0%	0%	1%	1%	1%
 Yes, so I changed plans, used another part of the trail 	0%	1%	0%	1%	0%	0%
 Yes, so I didn't use the trail for as long as originally planned 	0%	0%	0%	0%	0%	1%
 Yes, too crowded, unlikely that I'd return to this trail 	<u>0%</u>	<u>0%</u>	<u>0%</u>	<u>0%</u>	<u>0%</u>	<u>0%</u>
Total	100%	100%	100%	100%	100%	100%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

2007-09, ratings had dropped, with nearly all the drop due to a shift from "excellent" to "good." In contrast, ratings on the Douglas Trail went up, with nearly all of the rise due to a shift from "good" to "excellent". The Douglas ratings from the 1990s are the lowest ever recorded by MN DNR for a trail (note: the trail surface was in poor condition). The only trail with little change in ratings is the segment of the Paul Bunyan near Lake Bemidji State Park.

The drop or rise in overall experience rating is probably due to same factor identified in the 1990s when examining ratings across nine trails (Reference 1). In the trail studies, users are asked to score their satisfaction with 20 trail facility and service items. The 20 items are made up of five safety/enforcement items, five information items, five facility items (e.g., benches), three maintenance items, and two general characteristic items (e.g., trail design).

In the 1990s studies, one, and only one, group of items (trail maintenance) is consistently associated with lower overall trail ratings. In agreement with this finding, when the change in overall ratings from the 1990s to the recent studies is compared with the 20 facility and service items, the trail maintenance group has the strongest association. Trail maintenance items are comprised of trail surface

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Table 16

Change in user ratings of overall trail experience

Trail and rating	Earlier study (percent)	Later study (percent)	Change in percent
A. Paul Bunyan, 1996 to 2007			
Rating			
Excellent	82%	62%	-20%
Good	14%	37%	23%
Fair, Poor & Very Poor	<u>4%</u>	<u>0%</u>	-3%
Total	100%	100%	
B. Heartland, 1998 to 2007-08			
Rating			
Excellent	82%	69%	-12%
Good	16%	29%	12%
Fair, Poor & Very Poor	<u>2%</u>	<u>2%</u>	0%
Total	100%	100%	
Rating Excellent Good Fair, Poor & Very Poor Total	82% 18% <u>1%</u> 100%	62% 36% <u>2%</u> 100%	-20% 18% 1%
D. Douglas, 1997 to 2009			
_			
_	45%	61%	17%
Rating Excellent Good	50%	38%	-12%
Rating Excellent Good Fair, Poor & Very Poor	50% <u>5%</u>	38% <u>1%</u>	
Rating Excellent Good	50%	38%	-12%
Rating Excellent Good Fair, Poor & Very Poor Total E. Paul Bunyan segment near Lake Bemidji State Park and	50% <u>5%</u>	38% <u>1%</u>	-12%
Good Fair, Poor & Very Poor Total E. Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Rating	50% 5% 100%	38% 1% 100%	-12% -4%
Rating Excellent Good Fair, Poor & Very Poor Total E. Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Rating Excellent	50% 5% 100%	38% 1% 100%	-12% -4%
Rating Excellent Good Fair, Poor & Very Poor Total E. Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji, 1998 to 2009 Rating	50% 5% 100%	38% 1% 100%	-12% -4%

quality, maintenance of the trail, and management of vegetation in the trail corridor.

Although not as strongly associated with the overall trail experience, user ratings of the non-maintenance items can provide guidance on priorities for trail improvements that would improve the trail outing. Trail users are consistently most dissatisfied with two facility items: availability of drinking water and toilet facilities (Table 17).

 $Table\ 17$ Priorities for trail improvements: Percent of trail users who are "dissatisfied" or "very dissatisfied" with the facility or service

			Tourist trails			Local-use trails	
	Combined	Paul Bunyan*	Heartland*	RR-HPV*	Douglas*	PB-BSP	
Facility or service	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	
Facilities							
Availability of drinking water	23%	19%	22%	17%	36%	38%	
Availability of toilet facilities	21%	15%	27%	20%	16%	35%	
Availability of telephones	10%	10%	12%	8%	10%	12%	
Availability of benches	7%	1%	5%	10%	5%	16%	
Availability of picnic areas or shelters	4%	2%	4%	4%	5%	13%	
Maintenance							
Management of vegetation in the trail corridor	9%	10%	11%	7%	10%	5%	
Maintenance of the trail	9%	10%	12%	9%	6%	5%	
Trail surface quality	6%	5%	4%	10%	2%	1%	
Information							
Trail rules, traffic signs, and etiquette signs	7%	8%	5%	6%	8%	11%	
Information about trail connections	6%	5%	6%	1%	13%	11%	
Information about what you can see from the trail	5%	7%	7%	3%	6%	4%	
Information about what to expect about the trail	4%	4%	5%	1%	5%	4%	
Information about getting to the trail	3%	2%	4%	0%	5%	6%	
Safety and Enforcement							
Safety of road crossings	4%	5%	4%	2%	7%	5%	
Enforcement of trail rules	4%	3%	2%	5%	6%	8%	
Bridges	4%	0%	4%	5%	4%	5%	
Personal safety concerns	3%	3%	4%	1%	3%	4%	
Security of parking areas	1%	4%	1%	0%	1%	1%	
General Characteristics							
Trail design	0%	0%	0%	0%	1%	1%	
Trail location	0%	0%	0%	0%	1%	1%	

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Trip spending

Trail users spend money on their trip. Trip spending generates jobs and income in the local economy of the trail. For the five trails, summer spending totaled nearly \$5 million (Table 18). Most of that spending (95% in total) comes from trail users who reside outside the local economy of the trail, and the spending represents "new" dollars to the local economy. Users who have traveled a long-distance to the trail, not surprising, outspend local users by a large factor (about 20) on a daily basis, which is the primary reason aggregate trip spending is so high on the tourist trails and so low on the local-use trails. Most tourist trip spending (82%) is on basics: food, travel, and overnight accommodations.

	Т	Crip spending as (total spending f				
			Tourist trails -		Local-use	trails
Type of spender**	Combined	Paul Bunyan*	Heartland*	RR-HPV*	Douglas*	PB-BSP*
Local trail users	\$268,069	\$128,978	\$34,316	\$46,489	\$47,167	\$11,119
Tourist trail users	<u>\$4,618,786</u>	\$1,113,557	\$1,003,119	<u>\$2,230,497</u>	<u>\$165,052</u>	\$106,562
Total	\$4,886,855	\$1,242,534	\$1,037,436	\$2,276,986	\$212,219	\$117,681

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

For tourists, the trail itself is a primary draw to the general area of the Root River & Harmony-Preston Valley Trail, while it is much more of a secondary draw (if a draw at all) to users of the other trails (Table 19). A high portion (69%) of tourist users of the Root River & Harmony-Preston Valley Trail indicate that the trail is "very important" in their decision to visit the area of the trail, and most of the rest (30%) indicate the trail is "somewhat important." For the other tourist trails (Paul Bunyan and Heartland), the trail facility is less the primary draw for the area. The Paul Bunyan and Heartland Trail are situated in large lake-region tourist-destination areas that provide a wide range of outdoor-recreation opportunities to attract visitors.

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Table 19

How important was the trail in your choice of visiting this area on this trip? (asked of "tourists," who either spent the night prior to trail use away from home, or are over 30 miles from home)

			- Tourist trails	Local-use trails		
Response	Combined (percent)	Paul Bunyan* (percent)	Heartland* (percent)	RR-HPV* (percent)	Douglas* (percent)	PB-BSP* (percent)
Very important – the main reason I made the trip	42%	22%	36%	69%	36%	17%
Somewhat important – the trail had some influence on choosing this destination	32%	41%	30%	30%	21%	45%
Not important at all	24%	35%	30%	2%	43%	29%
Don't know	2%	<u>2%</u>	<u>5%</u>	<u>0%</u>	<u>0%</u>	<u>9%</u>
Total	100%	100%	100%	100%	100%	100%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

Trip characteristics

Users of the tourist trails, who are more likely to be bikers, travel further on the trail, spend more time, and tend to be in large parties than users of local-use trails (Table 20). Local users are more likely to recreate alone (e.g., getting routine exercise or walking the dog) than tourist users, and this is reflected in the party compositions of local-use and tourist trails. The segment of the Paul Bunyan Trail near Bemidji has a much higher portion of parties with children (30%) than any of the other trails (15% to 18% of parties have children). This high prevalence of children contributes to the comparatively low median age of the trail's user population.

Biking is the predominate activity on each trail, accounting for a majority of trail use. The typical biking outing covers nearly 30 miles of trail (28.2), lasts about three hours (2.9) and has a party size just under three (2.8)(see Table 20). Bikers on tourist trails, compared with bikers on local-use trails, pedal more miles, spend more time, and are in larger parties.

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Table 20
Trip Characteristics

			- Tourist trails			se trails
Characteristic	Combined (percent)	Paul Bunyan* (percent)	(percent)	RR-HPV* (percent)	Douglas* (percent)	PB-BSP* (percent)
	•		• /	• /	,	4
All Activities Miles traveled on trail (average)	19.4	16.5	17.1	29.8	10.1	8.7
whics daveled on trail (average)	15.4	10.5	17.1	27.0	10.1	0.7
Hours spent on trail (average)	2.3	1.9	2.4	3.2	1.5	1.5
People in party (average)	2.5	2.3	2.5	2.9	2.0	2.3
reopie iii party (average)	2.3	2.3	2.3	2.9	2.0	2.3
Party composition (% of parties)						
1 adult (over 18)	33%	35%	35%	19%	50%	41%
2 adults	37%	37%	37%	43%	30%	24%
3 or more adults	13%	10%	10%	22%	4%	6%
Adult(s) with children (under 18)	16%	15%	16%	15%	14%	24%
Children only	<u>2%</u>	<u>3%</u>	<u>2%</u>	<u>0%</u>	<u>2%</u>	<u>6%</u>
Total percent	100%	100%	100%	100%	100%	100%
Biking						
Miles traveled on trail (average)	28.2	28.7	28.1	37.2	17.3	12.0
Hours spent on trail (average)	2.9	2.7	3.1	3.7	1.8	1.6
People in party (average)	2.8	2.8	2.9	3.1	2.1	2.3
Party composition (% of parties)						
1 adult (over 18)	30%	28%	29%	19%	49%	39%
2 adults	36%	37%	35%	42%	31%	26%
3 or more adults	15%	16%	16%	22%	6%	7%
Adult(s) with children (under 18)	17%	18%	19%	17%	12%	23%
Children only	<u>1%</u>	<u>1%</u>	<u>1%</u>	0%	<u>1%</u>	<u>5%</u>
Total percent	100%	100%	100%	100%	100%	100%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

 $[\]ast$ RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

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Appendix A:

Tables of all survey results

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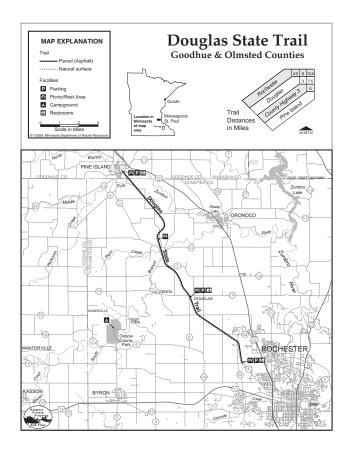
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Trail maps and administration of trail studies

Item	Paul Bunyan* 2007	Heartland* 2007-08	RR-HPV* 2008-09	Douglas* <u>2009</u>	PB-BSP* 2009
Trail-use counts Trail-use segment counts Number of trail segments	199 7	222 6	226 7	70 2	66 2
Use counts per segment Trail-user surveys	28	37	32	35	33
Survey contacts Valid addresses Surveys returned	351 350 308	347 343 299	345 343 231	421 409 305	443 437 324
Return rate	88%	87%	67%	75%	74%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail



^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Paul Bunyan & Heartland State Trails

Beltrami, Cass, Hubbard & Crow Wing Counties

State Trail (paved)
State Trail (unpaved)

····· Cuyuna Lakes
State Trail (paved)

· · · · · Other Trails

Parking

Rest Area

Restrooms

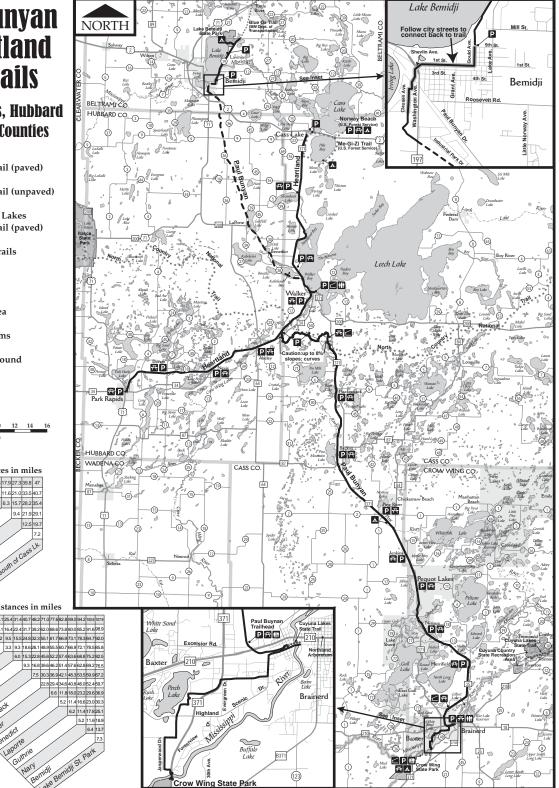
Campground

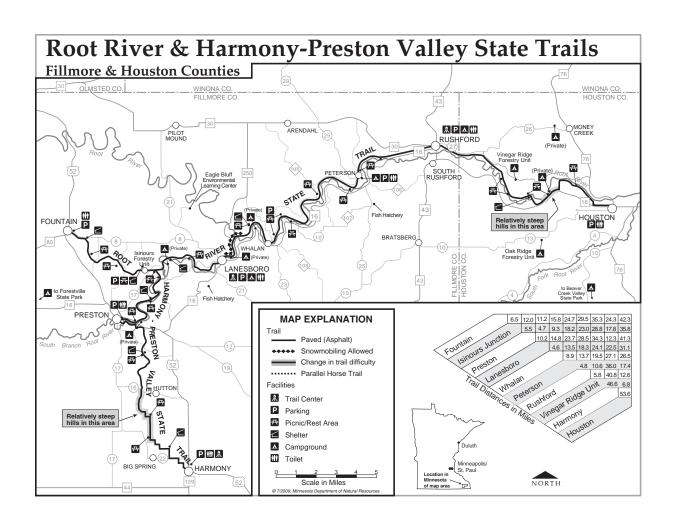
Shelter





Paul Bunyan city distances in miles





Summer trail use by day of week and activity

	Trail user-hours	Percent of user-hours	Days of use	User-hours per day
Overall	81,711	100%	101	809
Day of week				
Weekends/holidays	34,661	42%	34	1,019
Weekdays	47,050	58%	67	702
Activity				
Bike	53,545	66%		
Skate	4,777	6%		
Walk/hike	18,634	23%		
Run/jog	4,017	5%		
Other	738	1%		

	Trail <u>user-hours</u>	Percent of user-hours	Days of use	User-hours per day
Overall	74,419	100%	101	737
Day of week				
Weekends/holidays	29,718	40%	34	874
Weekdays	44,701	60%	67	667
Activity				
Bike	48,048	65%		
Skate	2,800	4%		
Walk/hike	17,802	24%		
Run/jog	2,234	3%		
Other	3,536	5%		

Summer trail use by day of week and activity

	Trail <u>user-hours</u>	Percent of user-hours	Days of use	User-hours <u>per day</u>
Overall	123,410	100%	101	1,222
Day of week				
Weekends/holidays	65,683	53%	33	1,990
Weekdays	57,726	47%	68	849
Activity				
Bike	107,872	87%		
Skate	1,091	1%		
Walk/hike	13,391	11%		
Run/jog	946	1%		
Other	110	0%		

	Trail <u>user-hours</u>	Percent of user-hours	Days of use	User-hours per day
Overall	64,869	100%	108	601
Day of week				
Weekends/holidays	28,119	43%	35	803
Weekdays	36,750	57%	73	503
Activity				
Bike	35,558	55%		
Skate	2,610	4%		
Walk/hike	18,105	28%		
Run/jog	8,281	13%		
Other	316	0%		

	Trail user-hours	Percent of user-hours	Days of use	User-hours per day
Overall	26,352	100%	108	244
Day of week				
Weekends/holidays	13,019	49%	35	372
Weekdays	13,333	51%	73	183
Activity				
Bike	13,675	52%		
Skate	2,351	9%		
Walk/hike	6,458	25%		
Run/jog	1,560	6%		
Other	2,309	9%		

Summer trail use by trail segment

	Trail user-hours	Percent of user-hours	Miles of trail	User-hours per trail mile
Overall	81,711	100%	64.2	1,273
Trail segment				
Baxter to Merrifield	15,812	19%	9.0	1,757
Merrifield to Pequot Lakes	34,687	42%	13.1	2,648
Pequot Lakes to Pine River	10,573	13%	9.3	1,137
Pine River to Backus	3,656	4%	9.3	393
Backus to Hackensack	5,111	6%	7.5	682
Hackensack to Trail shelter	9,531	12%	7.2	1,324
Trail shelter to Heartland Trail	2,341	3%	8.8	266

	Trail <u>user-hours</u>	Percent of user-hours	Miles of trail	User-hours per trail mile
Overall	74,419	100%	47.0	1,583
Trail segment				
Park Rapids to Dorset	21,324	29%	6.3	3,385
Dorset to Nevis	18,931	25%	5.3	3,572
Nevis to Akeley	9,791	13%	6.3	1,554
Akeley to Walker	10,832	15%	9.4	1,152
Walker to Cass CR #142	10,671	14%	8.6	1,241
Cass CR #142 to Cass Lake	2,869	4%	11.1	258

Summer trail use by trail segment

	Trail user-hours	Percent of user-hours	Miles of trail	User-hours per trail mile
Overall	123,410	100%	59.9	2,060
Trail segment				
Fountain to Preston	21,690	18%	12	1,808
Preston to Harmony	5,872	5%	12.3	477
Isinours to Whalan	64,820	53%	9.3	6,970
Whalan to Peterson	14,599	12%	8.9	1,640
Peterson to Rushford	5,384	4%	4.8	1,122
Rushford to Money Creek Woods	5,086	4%	5.8	877
Money Creek Woods to Houston	5,958	5%	6.8	876

D. Douglas Trail, 2009				
	Trail user-hours	Percent of user-hours	Miles of trail	User-hours per trail mile
Overall	64,869	100%	12.5	5,190
Trail segment				
Rochester to Douglas	36,169	56%	5.0	7,234
Douglas to Pine Island	28,700	44%	7.5	3,827

E. Paul Bunyan Trail segment near La	ke Bemidji State	Park, 2009		
	Trail <u>user-hours</u>	Percent of user-hours	Miles of trail	User-hours per trail mile
Overall	26,352	100%	7.3	3,610
Trail segment ● North (Mississippi River to				
northern terminus, including segment extending into Lake	14,524	55%	5.3	2,740
Bemidji State Park) ● South (Mississippi River to southern terminus)	11,828	45%	2.0	5,914

Summer trail use by travel distance from permanent home

A. Paul Bunyan Trail (Baxter to Heartland Trail), 2007 ----- Trail activity -----Walk/hike Overall use Bike and Jog/run Travel distance (percent (percent) (percent) 10 miles or less 33% 20% 66% 4% 10.1 to 50 miles 8% 9% 50.1 to 100 miles 5% 8% 0% over 100 miles 30% 54% 64% Total percent 100% 100% 100% Median travel miles 120 140 6

		Trail activity		
			Walk/hike	
	Overall use	Bike	and Jog/run	
Travel distance	(percent	(percent)	(percent)	
10 miles or less	29%	14%	69%	
10.1 to 50 miles	9%	11%	4%	
50.1 to 100 miles	8%	10%	4%	
over 100 miles	<u>54%</u>	<u>66%</u>	<u>22%</u>	
Total percent	100%	100%	100%	

Summer trail use by travel distance from permanent home

		Trail activity		
			Walk/hike	
	Overall use	Bike	and Jog/run	
<u> Travel distance</u>	(percent	(percent)	(percent)	
10 miles or less	9%	5%	41%	
10.1 to 50 miles	21%	20%	30%	
50.1 to 100 miles	12%	14%	0%	
over 100 miles	<u>58%</u>	<u>61%</u>	<u>29%</u>	
Total percent	100%	100%	100%	

		Trail activity		
			Walk/hike	
	Overall use	Bike	and Jog/run	
Travel distance	(percent	(percent)	(percent)	
10 miles or less	83%	78%	90%	
10.1 to 50 miles	10%	11%	8%	
50.1 to 100 miles	4%	6%	2%	
over 100 miles	<u>3%</u>	<u>6%</u>	<u>0%</u>	
Total percent	100%	100%	100%	

		Trail activity	
			Walk/hike
	Overall use	Bike	and Jog/run
Travel distance	(percent	(percent)	(percent)
10 miles or less	71%	62%	79%
10.1 to 50 miles	8%	9%	5%
50.1 to 100 miles	4%	3%	4%
over 100 miles	<u>18%</u>	<u>25%</u>	<u>11%</u>
Total percent	100%	100%	100%

Summer trail use by origin of trail users, 2007

<u>Origin</u>	A. Paul Bunyan* (percent)	B. Heartland** (percent)
Local counties		
Cass	9%	9%
Crow Wing	26%	1%
Hubbard	<u>0%</u>	<u>24%</u>
Subtotal local counties	35%	33%
Seven-county Twin Cities	33%	17%
Rest of Minnesota	<u>17%</u>	<u>23%</u>
Subtotal Minnesota	85%	73%
Out of state	<u>15%</u>	<u>27%</u>
Total percent	100%	100%
* Baxter to Heartland Trail		

³⁹

Summer trail use by origin of trail users

C. Root River and Harmony-Presto	n Valley Trails, 2008
Origin	<u>Percent</u>
Local counties	
Fillmore	9%
Houston	<u>2%</u>
Subtotal local counties	11%
Olmsted County	11%
Seven-county Twin Cities	20%
Rest of Minnesota	<u>16%</u>
Subtotal Minnesota	59%
Out of state	41%
Total percent	100%

D. Douglas Trail, 2009	
Origin	<u>Percent</u>
Local counties	
Olmsted	67%
Goodhue	<u>16%</u>
Subtotal local counties	83%
Seven-county Twin Cities	6%
Rest of Minnesota	<u>8%</u>
Subtotal Minnesota	98%
Out of state	<u>2%</u>
Total percent	100%

E. Paul Bunyan Trail segment near State Park, 2009	Lake Bemidji
Origin	<u>Percent</u>
Local counties	
Beltrami	70%
Subtotal local counties	70%
Seven-county Twin Cities	9%
Rest of Minnesota	<u>11%</u>
Subtotal Minnesota	90%
Out of state	<u>10%</u>
Total percent	100%

Summer trail use by age of trail users

	Paul Bunyan*	Heartland*	RR-HPV*	Douglas*	PB-BSP*
Age class	<u>2007</u>	2007-08	2008-09	<u>2009</u>	<u>2009</u>
2 or younger	8%	10%	9%	13%	16%
13 to 18	4%	4%	3%	5%	10%
19 to 40	18%	20%	21%	31%	33%
41 to 65	56%	55%	59%	44%	35%
over 65	14%	<u>11%</u>	<u>8%</u>	<u>8%</u>	<u>6%</u>
Total percent	100%	100%	100%	100%	100%
Median age	50.3	46.5	50.8	42.7	32.9

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Recent use trends for non-motorized trails

A. Summer use trends on state trails*

Trail, study years, and comparable segment	First study Total summer user hours	Second study Total summer user hours	Percent change	Standardized 10-year trend:** Percent change
Paul Bunyan, 1996 to 2007, Baxter to Hackensack	148,760	69,838	-53%	-48%
Heartland, 1998 to 2007-08, Park Rapids to Walker	118,337	60,878	-49%	-54%
Root River & Harmony-Preston Valley (RR & HPV), 1997 to 2008-09, Fountain to Preston and Isinours to Money Creek Woods	178,762	111,580	-38%	-34%
Gateway, 1997 to 2003, Cayuga Street to Pine Point Park	181,952	148,062	-19%	-31%
Douglas, 1997 to 2009, Rochester to Pine Island	45,810	64,869	42%	35%
Paul Bunyan State Trail Near Lake Bemidji State Park, 1998 to 2009, Mississippi River to northern terminus	17,488	14,524	-17%	-15%

^{*} Summer extends from the Saturday of Memorial Day weekend to Labor Day. Because summers vary in length, and because this affects comparability between studies, summer length is set by the second study.

B. Annual use trends on Twin Cities metropolitan regional trails

Metro regional trails (annual occasions in 000's)	First year	Year 2007	Percent change	Standardized 10-year trend:** Percent change
Nine trails from 1998 to 2007	3,941	3,516	-11%	-12%
Eleven trails from 1999 to 2007	5,256	3,980	-24%	-30%
Thirteen trails from 2000 to 2007	5,052	4,209	-17%	-24%
Fifteen trails from 2001 to 2007	5,437	4,547	-16%	-27%

^{**} Assumes the same linear change in user-hours per year.

^{**} Assumes the same linear change in user-hours per year.

Summer use trends by day of week and activity

	1996 Total summer user hours	2007 Total summer user hours	Percent change
Overall	148,760	69,838	-53%
By Day of Week			
Weekends/Holidays	72,770	29,468	-60%
Weekdays	75,990	40,371	-47%
By Trail Activity			
Bike	106,890	44,609	-58%
Skate	22,293	4,597	-79%
Walk/hike	16,924	16,526	-2%
Run/jog	2,255	3,368	49%
Walk/hike + Run/jog	19,179	19,894	4%
Other	398	738	85%

	1998 Total summer	2007 Total summer	Percent
	user hours	user hours	<u>change</u>
verall	118,337	60,878	-49%
y Day of Week			
Weekends/Holidays	59,084	23,385	-60%
Weekdays	59,254	37,493	-37%
y Trail Activity			
Bike	92,979	41,339	-56%
Skate	6,928	2,287	-67%
Walk/hike	17,071	12,498	-27%
Run/jog	1,038	1,898	83%
Walk/hike + Run/jog	18,109	14,395	-21%

	1997	2008	
	Total summer user hours	Total summer user hours	Percent change
Overall	178,762	111,580	-38%
By Day of Week			
Weekends/Holidays	110,154	59,199	-46%
Weekdays	68,608	52,381	-24%
By Trail Activity			
Bike	161,877	98,915	-39%
Skate	4,711	758	-84%
Walk/hike	10,844	10,905	1%
Run/jog	311	892	187%
Walk/hike + Run/jog	11,155	11,796	6%

	1997 Total summer user hours	2009 Total summer user hours	Percent change
Overall	45,810	64,869	42%
By Day of Week			
Weekends/Holidays	20,876	28,119	35%
Weekdays	24,934	36,750	47%
By Trail Activity			
Bike	27,642	35,558	29%
Skate	2,731	2,610	-4%
Walk/hike	11,746	18,105	54%
Run/jog	2,709	8,281	206%
Walk/hike + Run/jog	14,454	26,386	83%
Other	983	316	-68%

	1998 Total summer user hours	2009 Total summer user hours	Percent change
Overall	17,488	14,524	-17%
By Day of Week			
Weekends/Holidays	7,779	8,210	6%
Weekdays	9,709	6,314	-35%
By Trail Activity			
Bike	8,217	8,089	-2%
Skate	4,187	1,245	-70%
Walk/hike	3,933	3,363	-14%
Run/jog	852	652	-23%
Walk/hike + Run/jog	4,785	4,015	-16%

Summer use trends by trail segment

A. Paul Bunyan Trail (Baxter to Hackensack) 1996 2007 Total summer Total summer Percent user hours user hours change Overall 148,760 69,838 -53% **Segment** Baxter to Merrifield 37,841 15,812 -58% Merrifield to Pequot Lakes 58,820 34,687 -41% Pequot Lakes to Pine River 25,505 -59% 10,573 Pine River to Backus 13,687 3,656 -73% Backus to Hackensack 12,907 5,111 -60%

	1998	2007	
	Total summer	Total summer	Percent
	<u>user hours</u>	user hours	<u>change</u>
Overall	118,337	60,878	-49%
Segment			
Park Rapids to Nevis	55,997	40,255	-28%
Nevis to Akeley	24,747	9,791	-60%
Akeley to Walker	37,594	10,832	-71%

Summer use trends by trail segment

C. Root River & Harmony-Preston Valley Trails (Fountain to Preston and Isinours to Money Creek Woods)

	1997 Total summer user hours	2008 Total summer user hours	Percent change
verall	178,762	111,580	-38%
egment			
Fountain to Preston	37,978	21,690	-43%
Isinours to Whalan	83,958	64,820	-23%
Whalan to Peterson	31,922	14,599	-54%
Peterson to Rushford	18,580	5,384	-71%
Rushford to Money Creek Woo	6,324	5,086	-20%

D. Douglas Trail (Rochester to Pine Island)

	1997 Total summer user hours	2009 Total summer user hours	Percent change
Overall	45,810	64,869	42%
Segment			
Rochester to Douglas	22,905	36,169	58%
Douglas to Pine Island	22,906	28,700	25%

E. Paul Bunyan State Trail Near Lake Bemidji State Park (Mississippi River to northern terminus)

	1998 Total summer user hours	2009 Total summer user hours	Percent change
Overall	17,488	14,524	-17%
Segment North (Mississippi River to	17,488	14,524	-17%

Summer use trends by travel distance from permanent home

	1996	2007	
	Total summer user hours	Total summer user hours	Percent change
Overall	148,760	69,838	-53%
Travel distance			
10 miles or less	44,941	24,337	-46%
10.1 to 100 miles	21,899	8,575	-61%
over 100 miles	81,920	36,927	-55%

	1998	2007	
	2,,,,	2007	Domoont
	Total summer	Total summer	Percent
	<u>user hours</u>	user hours	<u>change</u>
Overall	118,337	60,878	-49%
Travel distance			
10 miles or less	26,335	18,838	-28%
10.1 to 100 miles	36,695	10,394	-72%
over 100 miles	55,307	31,647	-43%

Summer use trends by travel distance from permanent home

C. Root River & Harmony-Preston Valley Trails (Fountain to Preston and Isinours to Money Creek Woods)

	1997 Total summer user hours	2008 Total summer user hours	Percent change
Overall	178,762	111,580	-38%
Travel distance			
10 miles or less	11,017	10,781	-2%
10.1 to 100 miles	78,223	36,666	-53%
over 100 miles	89,521	64,133	-28%

D. Douglas Trail (Rochester to Pine Island)

	1997 Total summer <u>user hours</u>	2009 Total summer user hours	Percent change
Overall	45,810	64,869	42%
Fravel distance			
10 miles or less	36,470	53,916	48%
10.1 to 100 miles	7,551	8,863	17%
over 100 miles	1,789	2,090	17%

E. Paul Bunyan State Trail Near Lake Bemidji State Park (Mississippi River to northern terminus)

	1998 Total summer user hours	2009 Total summer user hours	Percent change
Overall	17,488	14,524	-17%
Travel distance			
10 miles or less	9,763	8,591	-12%
10.1 to 100 miles	2,886	1,974	-32%
over 100 miles	4,839	3,958	-18%

Summer use trends by age class

A. Paul Bunyan Trail (Baxter to Hackensack) 1996 2007 Total summer Total summer Percent or year user hours user hours <u>change</u> Overall 148,760 69,838 -53% Age class 12 or younger 17,463 6,598 -62% 13 to 18 13,583 2,672 -80% over 18 117,713 60,569 -49% 49.3 Median age (no data)

	1998	2007	
	Total summer	Total summer	Percent or year
	user hours	user hours	<u>change</u>
Overall	118,337	60,878	-49%
Age class			
12 or younger	21,679	6,349	-71%
13 to 18	12,168	1,987	-84%
19 to 40	28,605	12,721	-56%
41 to 65	45,960	32,304	-30%
over 65	9,926	7,517	-24%

Summer use trends by age class

C. Root River & Harmony-Preston Valley Trails (Fountain to Preston and Isinours to Money Creek Woods)

	1997 Total summer user hours	2008 Total summer user hours	Percent or year change
Overall	178,762	111,580	-38%
Age class			
12 or younger	21,457	10,276	-52%
13 to 18	7,553	3,157	-58%
19 to 40	54,657	24,467	-55%
41 to 65	85,031	63,936	-25%
over 65	10,063	9,744	-3%
Median age	42.7	51.5	8.8

D. Douglas Trail (Rochester to Pine Island)

	1997	2009	
	Total summer user hours	Total summer user hours	Percent or year change
Overall	45,810	64,869	42%
Age class			
12 or younger	8,048	8,187	2%
13 to 18	3,266	2,943	-10%
19 to 40	15,626	19,919	27%
41 to 65	16,985	28,844	70%
over 65	1,885	4,976	164%
Median age	38.1	42.7	4.6

E. Paul Bunyan State Trail Near Lake Bemidji State Park (Mississippi River to northern terminus)

	1998 Total summer user hours	2009 Total summer user hours	Percent or year change
Overall	17,488	14,524	-17%
Age class			
12 or younger	3,121	1,877	-40%
13 to 18	1,726	1,670	-3%
19 to 40	6,429	4,027	-37%
41 to 65	5,695	5,901	4%
over 65	517	1,049	103%
Median age	34.6	40.3	5.7

Trends in per-capita summer trail use by Minnesotas (use hours from Minnesotans per 1000 Minnesotans)

	1996	2007	
	User-hours	User-hours	Percent
	per capita	per capita	<u>change</u>
Overall	27.6	11.4	-59%
Age class			
12 or younger	17.3	6.9	-60%
13 to 18	27.7	5.1	-81%
over 18	30.3	13.2	-56%

	1998	2007	
	User-hours	User-hours	Percent
	per capita	per capita	change
Overall	18.5	8.9	-52%
Age class			
12 or younger	17.8	6.0	-66%
13 to 18	22.4	3.6	-84%
19 to 40	12.7	6.6	-48%
41 to 65	25.7	13.2	-49%
over 65	15.4	10.2	-34%

Trends in per-capita summer trail use by Minnesotas (use hours from Minnesotans per 1000 Minnesotans)

C. Root River & Harmony-Preston Valley Trails (Fountain to Preston and Isinours to Money Creek Woods)

	1997 User-hours per capita	2008 User-hours per capita	Percent change
Overall	24.6	12.8	-48%
Age class			
12 or younger	15.6	8.5	-45%
13 to 18	7.5	4.8	-37%
19 to 40	23.9	9.4	-61%
41 to 65	41.6	22.4	-46%
over 65	14.2	5.8	-59%

D. Douglas Trail (Rochester to Pine Island)

	1997 User-hours per capita	2009 User-hours per capita	Percent change
Overall	9.4	12.1	29%
Age class			
12 or younger	8.9	8.8	-1%
13 to 18	7.9	6.8	-13%
19 to 40	9.8	12.8	31%
41 to 65	12.4	15.9	29%
over 65	3.5	8.2	135%

E. Paul Bunyan State Trail Near Lake Bemidji State Park (Mississippi River to northern terminus)

	1998 User-hours per capita	2009 User-hours per capita	Percent change
verall	3.4	2.4	-28%
ge class			
12 or younger	3.1	2.1	-33%
13 to 18	3.5	3.9	11%
19 to 40	3.6	2.1	-43%
41 to 65	4.2	2.9	-31%
over 65	1.0	1.4	43%

How did you first hear about the trail?

Response	Paul Bunyan* (percent)	Heartland* (percent)	RR-HPV* (percent)	Douglas* (percent)	PB-BSP* (percent)
I live or work nearby From family or friends – by work of mouth Tourism, chamber of commerce, or convention & visitors bureau information	53% 19% 9%	45% 26% 5%	26% 46% 7%	77% 17% 1%	70% 20% 2%
Internet website DNR brochure, map or DNR Information Center From newspapers, magazines, radio, or TV	2% 2% 2%	7% 5% 1%	3% 4% 7%	2% 1% 0%	1% 3% 1%
Other	<u>10%</u>	11%	7%	<u>2%</u>	3%
Total	100%	100%	100%	100%	100%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

What did you like most about the trail? (respondents could check multiple responses)

Response	Paul Bunyan* (percent)	Heartland* (percent)	RR-HPV* (percent)	Douglas* (percent)	PB-BSP* (percent)
Scenery, wildlife, wildflowers, birds, trees Quiet, peaceful	85% 80%	86% 91%	93% 85%	80% 87%	%88 88%
It's a good place for exercise, to work out, to keep in shape	83%	83%	%99	87%	%98
No cars or motorized vehicles	40%	75%	72%	74%	81%
Well-maintained, clean	%99	%59	%59	%89	73%
It's fun	%95	63%	%02	%65	74%
Like the trail surface	62%	%59	93%	%09	71%
Easy, flat trail,	62%	73%	28%	97%	63%
Little development, not commercial	26%	%02	%59	28%	64%
Using the trail reduces tension, stress	61%	%09	54%	62%	%69
Like the length	54%	%65	26%	%95	54%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Trends in Paul Bunyan Trail user ratings of overall trail experience

Rating of overall experience	1996 (percent)	2007 (percent)	Change in percent: 1996 to 2007
Excellent	82%	62%	-20%
Good	14%	37%	23%
Fair	2%	0%	-2%
Poor	1%	0%	-1%
Very Poor	<u>0%</u>	0%	0%
Total	100%	100%	

		"Excellent"	ratings
	1996	2007	Change in percent:
<u>Distance</u>	(percent)	(percent)	1996 to 2007
10 miles or less	80%	55%	-25%
10.1 to 100 miles	95%	61%	-34%
over 100 miles	83%	72%	-11%

	ent" ratings only)		
		"Excellent"	ratings
	1996	2007	Change in percent:
Activity	(percent)	(percent)	1996 to 2007
Bike	84%	69%	-14%
Skate	60%	51%	-9%
Walk/hike or run/jog	99%	57%	-42%

Trends in Heartland Trail user ratings of overall trail experience

Rating of overall experience	1997 (percent)	2007 (percent)	Change in percent: 1997 to 2007
Excellent	82%	69%	-12%
Good	16%	29%	12%
Fair	1%	1%	0%
Poor	0%	0%	0%
Very Poor	1%	<u>1%</u>	0%
Total	100%	100%	

B. By travel distance from permanent home ("excellent" ratings only)				
		"Excellent"	ratings	
	1997	2007	Change in percent:	
<u>Distance</u>	(percent)	(percent)	1997 to 2007	
10 miles or less	78%	66%	-13%	
10.1 to 100 miles	79%	66%	-12%	
over 100 miles	86%	75%	-12%	

		"Excellent"	ratings
	1997	2007	Change in percent:
Activity	(percent)	(percent)	1997 to 2007
Bike	85%	71%	-14%
Skate	65%	47%	-18%
Walk/hike or run/jog	76%	70%	-6%

Trends in Root River and Harmony-Preston Valley Trail user ratings of overall trail experience

A. All users	1997	2008	Change in percent:
Rating of overall experience	(percent)	(percent)	1997 to 2008
Excellent	82%	62%	-20%
Good	18%	36%	18%
Fair	1%	2%	1%
Poor	0%	0%	0%
Very Poor	<u>0%</u>	<u>0%</u>	0%
Total	100%	100%	

B. By travel distance from permanent home ("excellent" ratings only) ----- "Excellent" ratings -----1997 Change in percent: 2008 **Distance** 1997 to 2008 (percent) (percent) 10 miles or less 71% 40% -31% 10.1 to 100 miles 79% 63% -16% over 100 miles 87% 68% -19%

C. By trail activity ("excell	ent" ratings only)		
		"Excellent"	ratings
	1997	2008	Change in percent:
Activity	(percent)	(percent)	1997 to 2008
Bike	83%	66%	-17%
Skate	84%	(no data)	
Walk/hike or run/jog	74%	50%	-24%

Trends in Douglas Trail user ratings of overall trail experience

A. All users	1997	2009	Change in percent:
Rating of overall experience	(percent)	(percent)	1997 to 2009
Excellent	45%	61%	17%
Good	50%	38%	-12%
Fair	5%	1%	-3%
Poor	1%	0%	-1%
Very Poor	<u>0%</u>	0%	0%
Total	100%	100%	

		"Excellent"	ratings
	1997	2009	Change in percent:
<u>Distance</u>	(percent)	(percent)	1997 to 2009
10 miles or less	45%	63%	18%
10.1 to 100 miles	43%	52%	9%
over 100 miles	44%	61%	17%

		"Excellent"	ratings
	1997	2009	Change in percent:
Activity	(percent)	(percent)	1997 to 2009
Bike	43%	60%	17%
Skate	22%	81%	59%
Walk/hike or run/jog	49%	62%	13%

Trends in user ratings of overall trail experience for segment of Paul Bunyan Trail near Lake Bemidji State Park

A. All users	1998	2009	Change in percent:
Rating of overall experience	(percent)	(percent)	1998 to 2009
Excellent	67%	71%	4%
Good	32%	28%	-3%
Fair	1%	0%	0%
Poor	0%	0%	0%
Very Poor	<u>0%</u>	0%	0%
Total	100%	100%	

B. By travel distance from permanent home ("excellent" ratings only) ----- "Excellent" ratings -----1998 2009 Change in percent: 1998 to 2009 **Distance** (percent) (percent) 10 miles or less 69% -3% 66% 10.1 to 100 miles 77% 78% -1% over 100 miles 63% 84% 22%

	· · · · · · · · · · · · · · · · · · ·		
		"Excellent"	ratings
	1998	2009	Change in percent:
Activity	(percent)	(percent)	1998 to 2009
Bike	76%	76%	0%
Skate	50%	71%	22%
Walk/hike or run/jog	68%	68%	-1%

Paul Bunyan satisfaction ratings for trail facilities and services, 2007

	2007 mean	1996 to 2007 change	Verv				Verv	Ž	
Group / Facility or service	5	in mean satisfaction (value)	satisfied (=5)	Satisfied (=4) (percent)	Neutral (=3) (percent)	Dissatisfied (=2) Dissatisfied (=1) (percent)	Dissatisfied (=1) (percent)	applicable (percent)	Total (percent)
General characteristics			,	,		,			,
Trail location	8.4	Note: comparable	%08	19%	1%	%0	%0	%0	100%
Trail design	4.7	data were	71%	26%	3%	%0	%0	%0	100%
		not collected							
Maintenance		in the 1996							
Trail surface quality	4.4	study	25%	36%	4%	2%	%0	%0	100%
Maintenance of the trail	4.1		40%	44%	%9	%6	1%	1%	100%
Management of vegetation in the trail corridor	4.0		35%	45%	%6	7%	3%	2%	100%
Safety and enforcement									
Safety of road crossings	4.2		41%	43%	11%	4%	%0	%0	100%
Security of parking areas	4.2		39%	33%	%6	3%	2%	15%	100%
Bridges	4.3		36%	25%	10%	%0	%0	28%	100%
Personal safety concerns	4.2		36%	37%	13%	2%	1%	%8	100%
Enforcement of trail rules	4.0		25%	40%	19%	3%	%0	14%	100%
Information									
Information about getting to the trail	4.1		27%	38%	13%	2%	%0	20%	100%
Trail rules, traffic signs, and etiquette signs	4.0		28%	45%	14%	7%	1%	%9	100%
Information about what to expect about the trail	4.0		23%	41%	15%	4%	%0	17%	100%
Information about trail connections	3.9		20%	42%	14%	2%	%0	18%	100%
Information about what you can see from the trail	3.8		23%	34%	23%	%9	%0	13%	100%
Facilities									
Availability of benches	4.2		33%	43%	15%	1%	%0	%6	100%
Availability of picnic areas or shelters	3.9		19%	35%	21%	2%	%0	22%	100%
Availability of telephones	3.4		12%	13%	25%	%8	3%	39%	100%
Availability of toilet facilities	3.6		21%	31%	24%	10%	2%	%8	100%
Availability of drinking water	3.4		20%	23%	24%	14%	2%	14%	100%

Heartland satisfaction ratings for trail facilities and services, 2007, and trends from 1998

Group / Facility or service	2007 mean satisfaction (value from 1 to 5)	1998 to 2007 change in mean satisfaction (value)	Very satisfied (=5) (percent)	Satisfied (=4) (percent)	Neutral (=3) (percent)	Very Dissatisfied (=2) Dissatisfied (=1) (percent)	Very Dissatisfied (=1) (percent)	Not applicable (percent)	Total (percent)
General characteristics Trail location Trail design	8.4 7.4	0.0	%69 %69	21% 30%	0%	%0 %0	%0 %0	%0 %0	100%
Maintenance Trail surface quality Maintenance of the trail Management of vegetation in the trail corridor	4.4 4.0 3.9	-0.4 -0.5 -0.3	48% 34% 28%	45% 45% 47%	3% 7% 10%	4% 11% 10%	0% 1% 2%	0% 0% 4%	100% 100% 100%
Safety and enforcement Safety of road crossings Security of parking areas Bridges Personal safety concerns Enforcement of trail rules	6.4.4.4.6. 6.4.4.4.6.	-0.2 -0.1 -0.2 -0.1	47% 34% 33% 35% 20%	41% 35% 31% 43%	7% 14% 10% 11% 33%	2% 1% 4% 1%	2% 0% 3% 3%	0% 16% 21% 7%	100% 100% 100% 100% 100%
Information Information about getting to the trail Trail rules, traffic signs, and etiquette signs Information about what to expect about the trail Information about trail connections Information about what you can see from the trail	4.0 3.9 3.9 7.0 7.0	0.0 -0.1 0.0 0.0	27% 27% 24% 23%	30% 43% 25% 33% 25%	16% 18% 22% 21% 26%	4 4 % 5 % 6 %	1% 0% 0% 2%	23% 7% 24% 16%	100% 100% 100% 100%
Facilities Availability of benches Availability of picnic areas or shelters Availability of telephones Availability of toilet facilities Availability of drinking water	4.1. 3.8. 3.1. 3.1. 1.8.	0.6 0.1 0.3 0.0	34% 19% 8% 12% 9%	37% 26% 7% 17% 12%	14% 26% 32% 23% 31%	4% 4% 8% 20% 18%	1% 0% 4% 7%	11% 26% 40% 21% 25%	100% 100% 100% 100%

Root River and Harmony-Preston Valley satisfaction ratings for trail facilities and services, 2008, and trends from 1997

Course / Excelliter on counity	2008 mean satisfaction	1997 to 2008 change in mean satisfaction	Very satisfied (=5)	Satisfied (=4)	Neutral (=3)	Very Dissatisfied (=2) Dissatisfied (=1)	Very Dissatisfied (=1)	Not applicable	Total
Group / racinty of service	(value iroin 1 to 3)	(value)	filleaned)	meanadh	Therceur	Thercell	Therealth	Thercell	(hercent)
General characteristics									
Trail location	4.7	0.0	%89	29%	2%	%0	%0	1%	100%
Trail design	4.7	-0.1	40%	28%	7%	%0	%0	%0	100%
Maintenance									
Trail surface quality	4.1	-0.6	39%	45%	%9	%6	1%	%0	100%
Maintenance of the trail	4.1	-0.3	40%	42%	8%	%8	1%	%0	100%
Management of vegetation in the trail corridor	4.1	-0.1	37%	49%	%9	%9	1%	%0	100%
Safety and enforcement									
Safety of road crossings	4.3	-0.2	44%	41%	12%	2%	%0	%0	100%
Security of parking areas	4.2	-0.1	36%	34%	15%	%0	%0	15%	100%
Bridges	4.4	-0.2	51%	40%	3%	4%	1%	%0	100%
Personal safety concerns	4.3	0.0	40%	41%	12%	1%	1%	%9	100%
Enforcement of trail rules	3.9	0.0	24%	36%	24%	4%	1%	11%	100%
Information									
Information about getting to the trail	4.3	0.2	35%	20%	7%	%0	%0	7%	100%
Trail rules, traffic signs, and etiquette signs	4.0	0.0	29%	49%	15%	2%	1%	1%	100%
Information about what to expect about the trail	4.1	0.0	29%	48%	15%	1%	%0	7%	100%
Information about trail connections	4.1	0.0	28%	45%	20%	%0	%0	7%	100%
Information about what you can see from the trail	3.9	-0.1	22%	42%	26%	3%	%0	7%	100%
Facilities									
Availability of benches	3.7	-0.2	18%	43%	21%	10%	1%	%8	100%
Availability of picnic areas or shelters	3.7	-0.1	17%	39%	29%	3%	2%	11%	100%
Availability of telephones	3.4	-0.2	%8	15%	31%	7%	1%	38%	100%
Availability of toilet facilities	3.4	-0.2	12%	34%	28%	20%	1%	%9	100%
Availability of drinking water	3.4	-0.1	%6	35%	30%	14%	2%	%6	100%

Douglas satisfaction ratings for trail facilities and services, 2009, and trends from 1997

Group / Facility or service	2009 mean satisfaction (value from 1 to 5)	1997 to 2009 change in mean satisfaction (value)	Very satisfied (=5) (percent)	Satisfied (=4) (percent)	Neutral (=3) (percent)	Very Dissatisfied (=2) Dissatisfied (=1) (percent) (percent)	Very Dissatisfied (=1) (percent)	Not applicable (percent)	Total (percent)
General characteristics Trail location Trail design	4.7 5.4	0.2	89% 98%	31% 37%	1%	1%	%0 %0	%0 %0	100%
Maintenance Trail surface quality Maintenance of the trail Management of vegetation in the trail corridor	4.4 4.2 3.9	0.8 0.4 -0.1	45% 35% 30%	48% 51% 45%	5% 7% 14%	2% 4% 7%	0% 3%% 3%%	0% 1% 1%	100% 100% 100%
Safety and enforcement Safety of road crossings Security of parking areas Bridges Personal safety concerns Enforcement of trail rules	4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0.2 0.2 0.1 0.1	38% 30% 44% 27% 15%	45% 41% 45% 46% 32%	8% 13% 6% 15% 36%	5% 0% 4% 2% 4%	1% 0% 0% 1% 2%	2% 15% 1% 8% 11%	100% 100% 100% 100%
Information Information about getting to the trail Trail rules, traffic signs, and etiquette signs Information about what to expect about the trail Information about trail connections Information about what you can see from the trail		-0.1 0.0 0.0 -0.1	12% 20% 11% 11% 13%	27% 49% 28% 22% 21%	26% 18% 28% 31% 31%	4% 6% 4% 111% 5%	1% 3% 1% 2%	30% 5% 28% 23% 29%	100% 100% 100% 100% 100%
Facilities Availability of benches Availability of picnic areas or shelters Availability of telephones Availability of toilet facilities Availability of drinking water	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0.1 0.0 0.1 -0.1	17% 11% 4% 9% 6%	40% 37% 8% 33% 11%	24% 24% 33% 30% 28%	5% 4% 9% 14% 26%	1% 1% 1% 2% 10%	14% 21% 46% 12%	100% 100% 100% 100%

Satisfaction ratings for trail facilities and services for segment of Paul Bunyan Trail near Lake Bemidji State Park, 2009, and trends from 1998

Group / Facility or service	2009 mean satisfaction (value from 1 to 5)	1998 to 2009 change in mean satisfaction (value)	Very satisfied (=5) (percent)	Satisfied (=4) (percent)	Neutral (=3) (percent)	Very Dissatisfied (=2) Dissatisfied (=1) (percent)	Very Dissatisfied (=1) (percent)	Not applicable (percent)	Total (percent)
General characteristics Trail location Trail design	4.7	0.1	76% 65%	21% 30%	2%	1%	%0 %0	%0 %0	100%
Maintenance Trail surface quality Maintenance of the trail Management of vegetation in the trail corridor	4.4 6.5 7.	0.0 0.0 -0.1	63% 47% 40%	33% 45% 42%	3% 4% 10%	1% 4% 4%	0% 1% 1%	0% 3%	100% 100% 100%
Safety and enforcement Safety of road crossings Security of parking areas Bridges Personal safety concerns Enforcement of trail rules	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.4 0.2 0.0 0.0	43% 25% 47% 33% 19%	39% 30% 33% 41% 31%	6% 16% 7% 13% 26%	5% 1% 4% 3%	0% 0% 1% 1%	7% 29% 7% 9% 17%	100% 100% 100% 100%
Information Information about getting to the trail Trail rules, traffic signs, and etiquette signs Information about what to expect about the trail Information about trail connections Information about what you can see from the trail		0.0 -0.1 0.1 0.0	19% 22% 17% 20% 17%	26% 39% 25% 27% 25%	26% 20% 31% 28% 32%	6% 8% 4% 10% 3%	1% 2% 0% 1%	22% 9% 23% 15% 21%	100% 100% 100% 100% 100%
Facilities Availability of benches Availability of picnic areas or shelters Availability of elephones Availability of toilet facilities Availability of forinking water	2 2 2 3 3 6 2 4 4 9 3 6	0.5 0.0 -0.1 -0.2	20% 11% 3% 7% 5%	29% 13% 5% 8% 6%	18% 29% 33% 25% 22%	12% 10% 7% 24% 29%	4% 3% 5% 11% 10%	16% 34% 47% 24% 29%	100% 100% 100% 100%

Would you recommend this trail to a friend?

Response	Paul Bunyan* (percent)	Heartland* (percent)	RR-HPV* (percent)	Douglas* (percent)	PB-BSP* (percent)
Yes	100%	100%	99%	100%	100%
No	<u>0%</u>	<u>0%</u>	<u>1%</u>	<u>0%</u>	<u>0%</u>
Total	100%	100%	100%	100%	100%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Which trail surface do you like best for your type of trail use on the day of the survey?

NOTE: All these trails are currently paved with asphalt.

Response	Paul Bunyan* (percent)	Heartland* (percent)	RR-HPV* (percent)	Douglas* (percent)	PB-BSP* (percent)
Asphalt paving	94%	97%	90%	90%	92%
Concrete Natural surface – grass or dirt Compacted crushed limestone	2% 3% 2%	2% 0% 1%	4% 2% 3%	4% 4% 2%	4% 2% 1%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Priorities for trail improvements:

Percent of trail users who are "dissatisfied" or "very dissatisfied" with the facility or service

Facility or service	Paul Bunyan* (percent)	Heartland* (percent)	RR-HPV* (percent)	Douglas* (percent)	PB-BSP* (percent)
Facilities					
Availability of drinking water	19%	22%	17%	36%	38%
Availability of toilet facilities	15%	27%	20%	16%	35%
Availability of telephones	10%	12%	8%	10%	12%
Availability of benches	1%	5%	10%	5%	16%
Availability of picnic areas or shelters	2%	4%	4%	5%	13%
Maintenance					
Management of vegetation in the trail corridor	10%	11%	7%	10%	5%
Maintenance of the trail	10%	12%	9%	6%	5%
Trail surface quality	5%	4%	10%	2%	1%
Information					
Trail rules, traffic signs, and etiquette signs	8%	5%	6%	8%	11%
Information about trail connections	5%	6%	1%	13%	11%
Information about what you can see from the trail	7%	7%	3%	6%	4%
Information about what to expect about the trail	4%	5%	1%	5%	4%
Information about getting to the trail	2%	4%	0%	5%	6%
Safety and Enforcement					
Safety of road crossings	5%	4%	2%	7%	5%
Enforcement of trail rules	3%	2%	5%	6%	8%
Bridges	0%	4%	5%	4%	5%
Personal safety concerns	3%	4%	1%	3%	4%
Security of parking areas	4%	1%	0%	1%	1%
General Characteristics					
Trail design	0%	0%	0%	1%	1%
Trail location	0%	0%	0%	1%	1%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Was the trail too crowded for your enjoyment?

Response	Paul Bunyan* (percent)	Heartland* (percent)	RR-HPV* (percent)	Douglas* (percent)	PB-BSP* (percent)
• No	96%	100%	94%	95%	97%
• Yes, but I used the trail anyway	3%	0%	4%	4%	2%
 Yes, so in the future I'll only use the trail at less busy times 	0%	0%	1%	1%	1%
 Yes, so I changed plans, used another part of the trail 	1%	0%	1%	0%	0%
 Yes, so I didn't use the trail for as long as originally planned 	0%	0%	0%	0%	1%
• Yes, too crowded, unlikely that I'd return to this trail	<u>0%</u>	<u>0%</u>	<u>0%</u>	0%	<u>0%</u>
Total	100%	100%	100%	100%	100%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Did you have any problems or conflicts with other users? (respondents could check multiple responses)

Response	Paul Bunyan* (percent)	Heartland* (percent)	RR-HPV* (percent)	Douglas* (percent)	PB-BSP* (percent)
 No problems with other trail users 	%06	91%	87%	77%	82%
 Problems/conflicts with other users Other trail users blocking traffic, not keeping right Other trail users passing without warning Problems with other people's pets Other trail users going too fast Unfriendly, discourteous behavior by others 	5% 3% 1% 1%	. 1 0 1 8 . 2 8 . 4 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	8 4 7 7 - % % % % 8 % % % % % % % % % % % % % % %	8	8 4 % % % % % % % % % % % % % % % % % %
 Irresponsible or unsafe behavior by others Other trail users created feelings of insecurity, or 	2%	%0	1%	2%	3%
 concerns about personal safety Non-permitted trail uses (i.e., all-terrain vehicles, cars. motorcycles) 	1%	0%	%0 0	1%	1%
 Problems with large groups or special events on the trail Vandalism 	%0 %0	%0 0	1%	1%	2%
GraffitiDischarge of firearms by other trail users	0%	%0 %0	%0 %0	1%	%0 %0
 Conflicts with trail users not using the treadway designated for their use Other trail users going too slow 	%0	%0	0%	1%	0%
• Other	2%	2%	1%	2%	%9

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Trip Characteristics

<u>Characteristic</u>	Paul Bunyan*	<u>Heartland*</u>	RR-HPV*	Douglas*	PB-BSP*
All Activities					
Miles traveled on trail (average)	16.5	17.1	29.8	10.1	8.7
Hours spent on trail (average)	1.9	2.4	3.2	1.5	1.5
People in party (average)	2.3	2.5	2.9	2.0	2.3
Party composition (% of parties)					
1 adult (over 18)	35%	35%	19%	50%	41%
2 adults	37%	37%	43%	30%	24%
3 or more adults	10%	10%	22%	4%	6%
Adult(s) with children (under 18)	15%	16%	15%	14%	24%
Children only	<u>3%</u>	<u>2%</u>	<u>0%</u>	<u>2%</u>	<u>6%</u>
Total percent	100%	100%	100%	100%	100%
Biking					
Miles traveled on trail (average)	28.7	28.1	37.2	17.3	12.0
Hours spent on trail (average)	2.7	3.1	3.7	1.8	1.6
People in party (average)	2.8	2.9	3.1	2.1	2.3
Party composition (% of parties)					
1 adult (over 18)	28%	29%	19%	49%	39%
2 adults	37%	35%	42%	31%	26%
3 or more adults	16%	16%	22%	6%	7%
Adult(s) with children (under 18)	18%	19%	17%	12%	23%
Children only	<u>1%</u>	<u>1%</u>	<u>0%</u>	<u>1%</u>	<u>5%</u>
Total percent	100%	100%	100%	100%	100%

 $[\]ast$ Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Where did you stay when you used the trail?

<u>Place</u>	Paul Bunyan* (percent)	Heartland* (percent)	RR-HPV* (percent)	Douglas* (percent)	PB-BSP* (percent)
• My permanent home, less than 30 miles from the trail	47%	41%	23%	92%	75%
 My permanent home, more than 30 miles away from the trail 	3%	5%	21%	2%	2%
My seasonal home	22%	16%	2%	0%	9%
• Resort, motel, or bed and breakfast inn	13%	18%	28%	3%	3%
 With friends or family 	12%	12%	4%	2%	4%
• Campground, RV park, or park	<u>2%</u>	<u>7%</u>	<u>22%</u>	<u>1%</u>	<u>8%</u>
Total	100%	100%	100%	100%	100%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Trip spending associated with trail use (total spending for the summer period)

Type of spender*	Paul Bunyan**	Heartland**	RR-HPV**	Douglas**	PB-BSP**
Local trail users Tourist trail users	\$128,978 <u>\$1,113,557</u>	\$34,316 \$1,003,119	\$46,489 \$2,230,497	\$47,167 <u>\$165,052</u>	\$11,119 <u>\$106,562</u>
Total	\$1,242,534	\$1,037,436	\$2,276,986	\$212,219	\$117,681

^{* &#}x27;Local' is a trail user who traveled less than 30 miles to the trail from their permanent home; 'tourist' is a trail user who spend the night prior to trail use away from their permanent home (e.g., at a resort or seasonal home), or traveled over 30 miles from home.

^{**} Paul Bunyan, 2007, Baxter to Heartland Trail

^{**} Heartland, 2007-08, Park Rapids to Cass Lake

^{**} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{**} Douglas, 2009, Rochester to Pine Island

^{**} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Profile of tourist spending associated with trail use (a "tourist" either spent the night prior to trail use away from home, or is over 30 miles from home)

Expenditure Category	Five-trail composite (percent)	Paul Bunyan* (percent)	Heartland* (percent)	RR-HPV* (percent)	Douglas* (percent)	PB-BSP* (percent)
Overnight lodging/camping Restaurant food/beverage, snacks	35% 25%	26%	31%	40%	59% 18%	28%
Gasoline	8% 14%	11% 14%	9% 18%	6% 11%	4% 14%	20% 19%
Entertainment, tickets, festivals Shopping, souvenirs	3% 12%	1% 15%	1% 12%	5% 11%	2% 1%	1% 11%
Equipment rental/repair	3%	3%	3%	3%	<u>2%</u>	2%
Total	100%	100%	100%	100%	100%	100%
Dollars spent per person per day	\$59.01	\$48.31	\$53.73	\$76.06	\$51.17	\$26.62

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

(asked of tourists, who either spent the night prior to trail use away from home, or are over 30 miles from home) How important was the trail in your choice of visiting this area on this trip?

Response	Paul Bunyan* (percent)	Heartland* (percent)	RR-HPV* (percent)	Douglas* (percent)	PB-BSP* (percent)
Very important – the main reason I made the trip	22%	36%	%69	36%	17%
Somewhat important – the trail had some influence on choosing this destination	41%	30%	30%	21%	45%
Not important at all	35%	30%	2%	43%	29%
Don't know	2%	2%	<u>%0</u>	<u>%0</u>	%6
Total	100%	100%	100%	100%	100%

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Age distribution of trail users from Minnesota (for party sizes of 10 people or less)

Age Class	Minnesota Pop- ulation, 2008** (percent)	Paul Bunyan* (percent)	Heartland* (percent)	RR-HPV* (percent)	Douglas* (percent)	PB-BSP* (percent)
12 or younger	17%	9%	12%	11%	12%	17%
13 to 18	8%	4%	4%	3%	5%	11%
19 to 40	30%	19%	22%	21%	31%	33%
41 to 65	33%	55%	51%	61%	44%	34%
over 65	<u>12%</u>	<u>14%</u>	11%	<u>5%</u>	<u>8%</u>	<u>5%</u>
Total	100%	100%	100%	100%	100%	100%

^{**} Population estimates from U.S. Census Bureau.

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Gender of trail users from Minnesota (based on gender of survey respondent)

Age Class	Minnesota Population, 2008** (percent)	Paul Bunyan* (percent)	Heartland* (percent)	RR-HPV* (percent)	Douglas* (percent)	PB-BSP* (percent)
Female Male	50%	54%	51%	45%	42%	57%
Total	<u>50%</u> 100%	<u>46%</u> 100%	<u>49%</u> 100%	<u>55%</u> 100%	<u>58%</u> 100%	44% 100%

^{**} Population estimates from U.S. Census Bureau.

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Race and ethnic distribution of trail users from Minnesota (based on race and ethnicity of survey respondent)

Race White Non-white Total	MN population, 2008** (percent) 89.0% 11.0% 100.0%	Paul Bunyan* (percent) 99.7% 0.3% 100.0%	Heartland* (percent) 98.3% 1.7% 100.0%	RR-HPV* (percent) 95.7% 4.3% 100.0%	Douglas* (percent) 98.4% 1.6% 100.0%	PB-BSP* (percent) 95.6% 4.4% 100.0%
Ethnicity Hispanic/Latino Non-Hispanic/Latino Total	4.1% 95.9% 100.0%	0.0% 100.0% 100.0%	0.7% 99.3% 100.0%	0.3% 99.7% 100.0%	0.2% 99.8% 100.0%	0.6% 99.4% 100.0%
Race & Ethnicity White, Non-Hispanic/Latino Non-white and/or Hispanic/Latino Total	85.4% 14.6% 100.0%	99.7% <u>0.3%</u> 100.0%	98.1% <u>1.9%</u> 100.0%	95.7% 4.3% 100.0%	98.2% <u>1.8%</u> 100.0%	95.2% 4.8% 100.0%

^{**} Source: U.S. Census Bureau.

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

 $[\]ast$ Douglas, 2009, Rochester to Pine Island \ast PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Educational attainment of trail users (age 25+) from Minnesota (based on education of survey respondent)

Educational attainment group	MN population, 2007** (percent)	Paul Bunyan* (percent)	Heartland* (percent)	RR-HPV* (percent)	Douglas* (percent)	PB-BSP* (percent)
High school graduate or higher	91%	100%	%66	100%	%66	100%
Bachelor's degree or higher	31%	63%	%59	%59	%89	%29

^{**} Source: U.S. Census Bureau, Current Population Reports. 2009. Educational Attainment in the United States: 2007.

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Household income of trail users from Minnesota (based on household income of survey respondent)

	Minnesota,					
	2007-08**	Paul Bunyan*	Heartland*	RR-HPV*	Douglas*	PB-BSP*
Income class	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Under \$20,000		7%	8%	2%	3%	%6
\$20,000 to \$29,999	no detail	%9	2%	2%	2%	8%
\$30,000 to \$39,999		%9	%6	2%	7%	10%
\$40,000 to \$49,999		%6	7%	7%	%9	%6
\$50,000 to \$59,999		%6	2%	15%	11%	11%
\$60,000 to \$74,999		16%	18%	14%	12%	13%
\$75,000 to \$99,999		19%	20%	23%	18%	15%
Over \$100,000		<u>29%</u>	27%	32%	41%	26%
Total	100%	100%	100%	100%	100%	100%
Median	\$57,607	Near \$75,000	Near \$75,000	\$75,000 to \$99,999	\$75,000 to \$99,999	\$60,000 to \$74,999

^{**} Income estimates from U.S. Census Bureau.

^{*} Paul Bunyan, 2007, Baxter to Heartland Trail

^{*} Heartland, 2007-08, Park Rapids to Cass Lake

^{*} RR-HPV, 2008-09, Root River and Harmony-Preston Valley Trail: Fountain to Houston (Root River) and Harmony to Root River Trail (Harmony-Preston Valley)

^{*} Douglas, 2009, Rochester to Pine Island

^{*} PB-BSP, 2009, Paul Bunyan segment near Lake Bemidji State Park and city of Bemidji

Special trail-user survey questions related to Lake Bemidji State Park for users of the segment of Paul Bunyan Trail near the Park

Question

Percent responding "yes" or indicating preference

On this trip, did you use the trail segment inside Bemidji State Park?	57%
Did you begin this trail trip inside Bemidji State Park?	22%
On the day of this trail trip, were you staying overnight in Bemidji State Park?	9%
Do you have any interest in staying overnight in Bemidji State Park?	46%
(IF HAVE AN INTEREST) What type of overnight facilities do you prefer? (check all that apply) - Drive-in campsite - Walk-in/cart-in campsite - Camper cabin	76% 28% 15%
(IF HAVE AN INTEREST) What type of amenities do you want near where you are staying overnight? (check all that apply) - Toilet building with running water - Showers - Rustic campaite with privacy	76% 72% 41%
 Rustic campsite with privacy Proximity to other park facilities (e.g., park office, interpretive center, swimming beach) Electricity at my campsite 	41% 39% 33%

Appendix B:

1. Trail user survey instrument (6 pages)

Note: Survey instruments are standard, except for the specific places users gain access to a trail (question 5) and special questions (item 2 below).

2. Special trail-user survey questions related to Lake Bemidji State Park for users of the segment of Paul Bunyan Trail near the Park (1 page)

2007 Paul Bunyan State Trail Summer Survey

PLEASE ANSWER THE FOLLOWING QUESTIONS FOR THE TRAIL VISIT WHEN YOU AGREED TO BE PART OF THIS SURVEY:

a) Excellent b) Good c) Fair d) Poor e) Very poor 2. What was your main trail activity on the day of your trail visit? (Please check one) a) Bicycling f) Jogging/running b) Mountain bicycling g) Wheelchair use c) In-line skating/roller skiing h) Horseback riding d) Dog walking i) Other (Please specify	1.	Please rate your overall experience on the trail on the day of your visit. (Please check one)	
a) Bicycling b) Mountain bicycling g) Wheelchair use c) In-line skating/roller skiing h) Horseback riding d) Dog walking i) Other (Please specify g) Walking, hiking, or pushing stroller 3. How did you get to the trail? (Please check one) a) By car e) With a large group in bus or van b) On foot f) Horseback riding c) On a bicycle g) Other (Please specify g) Other (Please specify g) On in-line skates 4. What is the one-way driving distance from your permanent home to the trail? Miles (approximately) Don't know 5. Where did you get on the trail? (Please check one) a) The Arboretum in Baxter f) Backus b) Merrifield g) Hackensack c) Nisswa h) Walker d) Pequot Lakes i) Other (Please specify g) Pine River 6. Did you travel on the trail round-trip or one-way? (Please check one) Round trip, returned to my starting point on the trail One way on the trail		a) Excellent b) Good c) Fair d) Poor e) Very poor	
b) Mountain bicycling c) In-line skating/roller skiing h) Horseback riding d) Dog walking i) Other (Please specify) e) Walking, hiking, or pushing stroller 3. How did you get to the trail? (Please check one) a) By car e) With a large group in bus or van b) On foot f) Horseback riding c) On a bicycle g) Other (Please specify d) On in-line skates 4. What is the one-way driving distance from your permanent home to the trail? Miles (approximately) Don't know 5. Where did you get on the trail? (Please check one) a) The Arboretum in Baxter f) Backus b) Merrifield g) Hackensack c) Nisswa h) Walker d) Pequot Lakes i) Other (Please specify) e) Pine River 6. Did you travel on the trail round-trip or one-way? (Please check one) Round trip, returned to my starting point on the trail One way on the trail One way on the trail 7. About how many miles did you travel on the trail, in total? Miles Not sure 8. What day of the week were you on the trail? (Please check one) a) Sunday e) Thursday b) Monday f) Friday c) Tuesday g) Saturday	2.	What was your main trail activity on the day of your trail visit? (Please check one)	
b) Mountain bicycling c) In-line skating/roller skiing h) Horseback riding d) Dog walking i) Other (Please specify) e) Walking, hiking, or pushing stroller 3. How did you get to the trail? (Please check one) a) By car e) With a large group in bus or van b) On foot f) Horseback riding c) On a bicycle g) Other (Please specify d) On in-line skates 4. What is the one-way driving distance from your permanent home to the trail? Miles (approximately) Don't know 5. Where did you get on the trail? (Please check one) a) The Arboretum in Baxter f) Backus b) Merrifield g) Hackensack c) Nisswa h) Walker d) Pequot Lakes i) Other (Please specify) e) Pine River 6. Did you travel on the trail round-trip or one-way? (Please check one) Round trip, returned to my starting point on the trail One way on the trail One way on the trail 7. About how many miles did you travel on the trail, in total? Miles Not sure 8. What day of the week were you on the trail? (Please check one) a) Sunday e) Thursday b) Monday f) Friday c) Tuesday g) Saturday		a)Bicycling f)Jogging/running	
c)		b) Mountain bicycling g) Wheelchair use	
e)Walking, hiking, or pushing stroller 3. How did you get to the trail? (Please check one) a)By car		c)In-line skating/roller skiing h)Horseback riding	
e)Walking, hiking, or pushing stroller 3. How did you get to the trail? (Please check one) a)By car		d)Other (Please specify	_)
a)By car		e)Walking, hiking, or pushing stroller	
b)On foot Horseback riding	3.	How did you get to the trail? (Please check one)	
c)On a bicycled)On in-line skates 4. What is the one-way driving distance from your permanent home to the trail?Miles (approximately)Don't know 5. Where did you get on the trail? (Please check one) a) The Arboretum in Baxterf) Backus b) Merrifieldg) Hackensack c) Nisswah) Walker d) Pequot Lakesi) Other (Please specify) e) Pine River 6. Did you travel on the trail round-trip or one-way? (Please check one) Round trip, returned to my starting point on the trail One way on the trail 7. About how many miles did you travel on the trail, in total? Miles Not sure 8. What day of the week were you on the trail? (Please check one) a) Sunday e) Thursday b) Monday		a)By car e)With a large group in bus or van	
c)On a bicycled)On in-line skates 4. What is the one-way driving distance from your permanent home to the trail?Miles (approximately)Don't know 5. Where did you get on the trail? (Please check one) a) The Arboretum in Baxterf) Backus b) Merrifieldg) Hackensack c) Nisswah) Walker d) Pequot Lakesi) Other (Please specify) e) Pine River 6. Did you travel on the trail round-trip or one-way? (Please check one) Round trip, returned to my starting point on the trail One way on the trail 7. About how many miles did you travel on the trail, in total? Miles Not sure 8. What day of the week were you on the trail? (Please check one) a) Sunday e) Thursday b) Monday			
d)On in-line skates 4. What is the one-way driving distance from your permanent home to the trail?			_,
Miles (approximately)Don't know 5. Where did you get on the trail? (Please check one) a)The Arboretum in Baxter f)Backus b)Merrifield g)Hackensack c)Nisswa h)Walker d)Pequot Lakes i)Other (Please specify) e)Pine River 6. Did you travel on the trail round-trip or one-way? (Please check one)		en e	
Miles (approximately)Don't know 5. Where did you get on the trail? (Please check one) a)The Arboretum in Baxter f)Backus b)Merrifield g)Hackensack c)Nisswa h)Walker d)Pequot Lakes i)Other (Please specify) e)Pine River 6. Did you travel on the trail round-trip or one-way? (Please check one)	4.	What is the one-way driving distance from your permanent home to the trail?	
		· · · · · · · · · · · · · · · · · · ·	
5. Where did you get on the trail? (Please check one) a) The Arboretum in Baxter f) Backus b) Merrifield g) Hackensack c) Nisswa h) Walker d) Pequot Lakes i) Other (Please specify) e) Pine River 6. Did you travel on the trail round-trip or one-way? (Please check one)			
a)The Arboretum in Baxter f)Backus b)Merrifield g)Hackensack c)Nisswa h)Walker d)Pequot Lakes i)Other (Please specify) e)Pine River 6. Did you travel on the trail round-trip or one-way? (Please check one)			
b)Merrifield	5.	Where did you get on the trail? (Please check one)	
c)Nisswa h)Walker d)Pequot Lakes i)Other (Please specify) e)Pine River 6. Did you travel on the trail round-trip or one-way? (Please check one)Round trip, returned to my starting point on the trailOne way on the trail 7. About how many miles did you travel on the trail, in total?MilesNot sure 8. What day of the week were you on the trail? (Please check one) a)Sunday e)Thursday b)Monday f)Friday c)Tuesday g)Saturday		a)The Arboretum in Baxter f)Backus	
d)Pequot Lakes i)Other (Please specify) e)Pine River 6. Did you travel on the trail round-trip or one-way? (Please check one)		b)Merrifield g)Hackensack	
e)Pine River 6. Did you travel on the trail round-trip or one-way? (Please check one) Round trip, returned to my starting point on the trail One way on the trail 7. About how many miles did you travel on the trail, in total? Miles Not sure 8. What day of the week were you on the trail? (Please check one) a)Sunday		c)Nisswa h)Walker	
6. Did you travel on the trail round-trip or one-way? (Please check one) Round trip, returned to my starting point on the trailOne way on the trail 7. About how many miles did you travel on the trail, in total? MilesNot sure 8. What day of the week were you on the trail? (Please check one) a)Sunday		d)Pequot Lakes i)Other (Please specify	_)
Round trip, returned to my starting point on the trailOne way on the trail 7. About how many miles did you travel on the trail, in total?MilesNot sure 8. What day of the week were you on the trail? (Please check one) a)Sunday b)Thursday b)Monday c)Triday c)Tuesday g)Saturday			
One way on the trail 7. About how many miles did you travel on the trail, in total?MilesNot sure 8. What day of the week were you on the trail? (Please check one) a)Sunday b)Monday c)Thursday c)Tuesday g)Saturday	6.	Did you travel on the trail round-trip or one-way? (Please check one)	
One way on the trail 7. About how many miles did you travel on the trail, in total?MilesNot sure 8. What day of the week were you on the trail? (Please check one) a)Sunday b)Monday c)Thursday c)Tuesday g)Saturday		Round trip, returned to my starting point on the trail	
MilesNot sure 8. What day of the week were you on the trail? (Please check one) a)Sunday b)Monday c)Tuesday g)Saturday			
MilesNot sure 8. What day of the week were you on the trail? (Please check one) a)Sunday b)Monday c)Tuesday g)Saturday	7.	About how many miles did you travel on the trail, in total?	
Not sure 8. What day of the week were you on the trail? (Please check one) a)Sunday b)Monday c)Tuesday g)Saturday		Miles	
a)Sunday e)Thursday b)Monday f)Friday c)Tuesday g)Saturday		Not sure	
a)Sunday e)Thursday b)Monday f)Friday c)Tuesday g)Saturday	Q	What day of the wook were you on the trail? (Please check one)	
b)Monday f)Friday c)Tuesday g)Saturday	o.	· · · · · · · · · · · · · · · · · · ·	
c)Tuesday g)Saturday		· · · · · · · · · · · · · · · · · · ·	

9. What time of day did you begin using the trail? (<i>Please write time</i> a.m. / p.m.	and circle a.m. or p.m.)
10. About how many hours were you on the trail?	
Hours	
Not sure	
11. Was the trail too crowded for your enjoyment? (Please check one	2)
a)No	
b)Yes, but I used the trail anyway	
c)Yes, so I changed plans, used another part of the trail	
d)Yes, so I didn't use the trail for as long as originally pl	anned
e)Yes, so in the future I'll only use the trail at less busy t	imes
f)Yes, too crowded, unlikely that I'd return to this trail	
12. Why did you choose to come to this trail? (Please check all that a	pply)
a)Never been here before, wanted to check it out	
b)Come to this trail regularly	
c)Easy to get to, convenient location	
d)Safe place to ride/walk/skate	
e)Vacationing in this area	
f)Was recommended to me by family	
g)Other (Please explain)
13. Did you have any problems or conflicts with other trail users? (A	Please check all that apply)
a)No problems with other trail users – please skip to nex	· · ·
b) Other trail users blocking traffic, not keeping right	•
c)Other trail users passing without warning	
d)Other trail users going too fast	
e)Other trail users going too slow	
f)Unfriendly, discourteous behavior by others	
g)Irresponsible or unsafe behavior by others	
h)Problems with other people's pets	
i) Other trail users created feelings of insecurity, or conc	erns about personal safety
j)Non permitted trail uses (i.e., all-terrain vehicles, cars,	motorcycles)
k)Graffiti	,
1)Vandalism	
m)Problems with large groups or special events on the tra	ail
n)Discharge of firearms by other trail users	
o)Conflicts with trail users not using the treadway design	nated for their use
p)Other (Please explain	1

			ply	at all	to you	fied, S if satisfied, N if neutral, D if dissatisfied, VD if very dissatisfied. <i>ur use of the trail, circle NA (not applicable). If you have any specific we could make improvements, please jot it down.</i>
VS	S	N	D	VD	NA	Trail surface quality:
					NA	Trail location:
					NA	Trail design
VS					NA	Safety of road crossings:
					NA	Security of parking areas:
					NA	Bridges:
VS					NA	Availability of drinking water:
					NA	Availability of toilet facilities:
VS					NA	Availability of benches:
					NA	Availability of telephones:
VS					NA	Availability of picnic areas or shelters:
				VD		Information about getting to the trail:
				VD		Information about what to expect about the trail:
VS				VD		Information about what you can see from the trail:
				VD		Information about trail connections:
VS					NA	Trail rules, traffic signs, and etiquette signs:
VS				VD		Maintenance of the trail:
					NA	Personal safety concerns:
					NA	Enforcement of trail rules:
						Emoreoment of trail rules.
					NA s or s	Management of vegetation in the trail corridor:ervices missing that you expected or needed? If yes, please explain.
. Are th	ere	any	y fa	cilitie	s or s	ervices missing that you expected or needed? If yes, please explain.
Are th	ere	you	y fa	cilitie	s or s	ervices missing that you expected or needed? If yes, please explain. out the trail? (Please check all that apply)
Are th	ere	you a)_	y fao	cilitie	st abo	ervices missing that you expected or needed? If yes, please explain. out the trail? (Please check all that apply) wildlife, wildflowers, birds, trees
Are th	ere	you a)_ b)_	y fao	cilitie de mo	st abo	ervices missing that you expected or needed? If yes, please explain. out the trail? (Please check all that apply) vildlife, wildflowers, birds, trees elopment, not commercial
Are th	ere	you a)_ b)_ c)_	y fao	e mod Scer Littl	st aborery, ve devet, pea	ervices missing that you expected or needed? If yes, please explain. out the trail? (Please check all that apply) vildlife, wildflowers, birds, trees elopment, not commercial ceful
Are th	ere	you a)_ b)_ c)_ d)_	y fao	ee mos Scer Littl Quie	st aborery, ve devocats, pea	ervices missing that you expected or needed? If yes, please explain. out the trail? (Please check all that apply) vildlife, wildflowers, birds, trees elopment, not commercial
Are th	ere	you a)_ b)_ c)_ d)_ e)_	y fao	ee mode Scer Littl Quide No co	st aborery, ve devet, pea	ervices missing that you expected or needed? If yes, please explain. Out the trail? (Please check all that apply) vildlife, wildflowers, birds, trees elopment, not commercial ceful e motorized vehicles
Are th	ere	you a)_ b)_ c)_ d)_ e)_ f)_	y fao	cilitie de mod Scer Littl Quie No c It's f	st aborest, ye devet, peacars or fun the tr	ervices missing that you expected or needed? If yes, please explain. out the trail? (Please check all that apply) vildlife, wildflowers, birds, trees elopment, not commercial ceful motorized vehicles ail surface
Are th	ere	you a)_ b)_ c)_ d)_ e)_ f)_ g)_	y fa	ee mod Scer Littl Quid No d It's f Like Easy	st abores, we devote, peacars or fun the try, flat	ervices missing that you expected or needed? If yes, please explain. out the trail? (Please check all that apply) vildlife, wildflowers, birds, trees elopment, not commercial ceful r motorized vehicles ail surface trail,
Are th	ere	you a)_ b)_ c)_ d)_ e)_ f)_ g)_ h)_	y fac	ee mode Scere Little No controller It's for Like Easy	st aborery, we devote, peacars or fun the tr	ervices missing that you expected or needed? If yes, please explain. Out the trail? (Please check all that apply) vildlife, wildflowers, birds, trees elopment, not commercial ceful r motorized vehicles ail surface trail, ength
Are th	ere	you a)_ b)_ c)_ d)_ e)_ f)_ g)_ h)_ i)_	y fac	ee mode	st abores or se devo	ervices missing that you expected or needed? If yes, please explain. out the trail? (Please check all that apply) vildlife, wildflowers, birds, trees elopment, not commercial ceful r motorized vehicles ail surface trail, ength tained, clean
Are th	ere	you a)_ b)_ c)_ d)_ e)_ f)_ i)_ j)_	y fac	cilitie Le mod Scer Littl Quie No c It's f Like Easy Like Well It's a	st abores, we devet, peacars or fun the trace, flate the leternain good	ervices missing that you expected or needed? If yes, please explain. Out the trail? (Please check all that apply) vildlife, wildflowers, birds, trees elopment, not commercial ceful remotorized vehicles ail surface trail, ength tained, clean place for exercise, to work out, to keep in shape
Are th	ere	you a)_ b)_ c)_ d)_ e)_ f)_ j)_ i)_ j)_	y fac	ee mode_Scert_Littl _Quide_No co_It's for _Like _Easy_Like _Well _It's a	st aborery, we devote, peacars or fun the training good g the training conditions and the state of the state	ervices missing that you expected or needed? If yes, please explain. out the trail? (Please check all that apply) vildlife, wildflowers, birds, trees elopment, not commercial ceful motorized vehicles ail surface trail, ength tained, clean place for exercise, to work out, to keep in shape trail reduces tension, stress
Are th	ere	you a)_ b)_ c)_ d)_ e)_ f)_ i)_ j)_	y fac	ee mode_Scert_Littl _Quide_No co_It's for _Like _Easy_Like _Well _It's a	st aborery, we devote, peacars or fun the training good g the training conditions and the state of the state	ervices missing that you expected or needed? If yes, please explain. Out the trail? (Please check all that apply) vildlife, wildflowers, birds, trees elopment, not commercial ceful remotorized vehicles ail surface trail, ength tained, clean place for exercise, to work out, to keep in shape
Are the What	did	you a)_ b)_ c)_ d)_ e)_ f)_ i)_ j)_ i)_ u re	y fa	ee mode_Scer_Littl _Quide_No co_It's for _Like _Easy_Like _Well _It's a Usin_Othe	st aborery, we devote, peacars or fun the training good g the training fund this	ervices missing that you expected or needed? If yes, please explain. but the trail? (Please check all that apply) wildlife, wildflowers, birds, trees elopment, not commercial ceful motorized vehicles ail surface trail, ength tained, clean place for exercise, to work out, to keep in shape trail reduces tension, stress ase explain strail to a friend? (Please check one and explain briefly)
Are the What	did	you a)_ b)_ c)_ d)_ e)_ f)_ j)_ i)_ j)_ l)_	y fac	ee mode Scere Little Quice No control Like Like Like Well It's a Usin Othe	st aborery, we developed the training good g the training the training good g the training the training good g the training g train	ervices missing that you expected or needed? If yes, please explain. Out the trail? (Please check all that apply) vildlife, wildflowers, birds, trees elopment, not commercial ceful remotorized vehicles ail surface trail, ength tained, clean place for exercise, to work out, to keep in shape trail reduces tension, stress ase explain

19.	How many times did you use this trail in winter 2006-07? (December 1 to March 31)Visits in winter
20.	Which trail surface do you like best for your type of trail use on the day of the survey? (Please check one)
	a)Natural surface – grass or dirt
	b) Concrete
	c)Asphalt paving
	d)Compacted crushed limestone
	e)Other (please specify)
21.	Including you, how many people by age class were in your party on this visit to the trail?
	a)Number of children under 12
	b)Number of teens 13-18
	c)Number of adults 19-40
	d)Number of adults 41- 65
	e)Number of adults over 65
22.	Where did you stay when you used the trail? (Please check one)
	a)My permanent home, less than 30 miles from the trail (If yes, proceed with question 23)
	23. Local residents only: How much did your party spend today? \$
	24. <i>Local residents only:</i> How many people are covered by these expenses?
	Local residents only: Now, please skip to Question 28.
	b)My permanent home, more than 30 miles away from the trail
	c)My seasonal home
	d)Resort, motel, or bed and breakfast inn
	e)With friends or family
	f)Campground, RV park, or park
25.	How important was the trail in your choice of visiting this area on this trip? (Please check one)
	a)Very important – the main reason I made the trip
	b) Somewhat important – the trail had some influence on choosing this destination
	c)Not important at all
	d)Don't know
26.	Approximately how much did you and your party spend on travel-related expenses on the
	day of your trail visit? (Please fill in the approximate dollar amount for each category)
	a)Overnight lodging/camping
	b)Restaurant food/beverage, snacks
	c)Groceries
	d)Gasoline
	e)Entertainment, tickets, festivals
	f)Shopping, souvenirs
	g)Equipment rental/repair
27.	How many people are covered by these expenditures?
	People
28.	About how much do you spend per year on summer trail gear? (bikes, skates, shoes, sporting goods, etc.) \$(approximately)

29.	How did you first hear about the trail? (Please check one)
	a)I live or work nearby
	b)From family or friends – by work of mouth
	c)From newspapers, magazines, radio, or TV
	d)DNR brochure, map or DNR Information Center
	e)Tourism, chamber of commerce, or convention & visitors bureau information
	f) Internet website
	g) Other (Please specify)
	g)
30.	What is your home zip code or postal code?
31.	How old are you?Years
32.	Which of the following best describes your race: (Please check all that apply)
	a)African American/black d)Caucasian/white b)American Indian or Alaska Native e)Pacific Islander
	c)Asian
33.	Do you consider yourself Hispanic/Latino/Spanish? (Please check one)YesNo
34.	Are youMale orFemale
35	What is the highest level of education you have completed? (Please check one)
	a)Some high school e)Some college b)Graduated from high school or GED f)AA college degree
	c)Some vocational or technical school g)BA, BS college degree
	d)Some vocational orSome postgraduate study
	technical school i)Postgraduate degree(s)
36.	Including you, how many adults, teens, and children live in your household?
	a)Adults (over 18) b)Teens (13 to 18 years) c)Children (12 or under)
37.	Please indicate your <u>total</u> household income before taxes last year. (Please check one)
	a)Under \$20,000
	b)\$20,000 - \$29,999
	c)\$30,000 - \$39,999
	d)\$40,000 - \$49,999
38.	What else you would like to tell us, positive or negative, about this trail or other trails in Minnesota managed by the DNR?



Special trail-user survey questions related to Lake Bemidji State Park for users of the segment of Paul Bunyan Trail near the Park

	o, did you use the trail segment inside Bemidji State Park? (check one) s No Don't know/not sure	
•	egin this trail trip inside Bemidji State Park? (check one) es No Don't know/not sure	
	of this trail trip, were you staying overnight in Bemidji State Park? (check of NoDon't know/not sure	ne
-	ve any interest in staying overnight in Bemidji State Park? (check one) es NoDon't know/not sure	
	What type of overnight facilities do you prefer? (check all that apply) Orive-in campsite Valk-in/cart-in campsite Camper cabin	
(chec	What type of amenities do you want near where you are staying overnight? all that apply) showers Electricity at my campsite Coilet building with running water Proximity to other park facilities (e.g., park office, interpretive center, swimming beach)	
	Rustic campsite with privacy	