



Hiker Use of Selected Summits, Trails, and Trail Intersections in Acadia National Park, 2014



Gorham Mountain Trail

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SUMMARY

In 2014 volunteers counted hiker traffic on four less used summits and ridgerunners counted at three intersections surrounding Sargent Mountain. Counts were made for three hours between 11:00 a.m. and 3:00 p.m. between July and October. Trail counters were operated at two long-term monitoring sites on the Gorham Mountain and Triad Trails, with a third on the Otter Cove Trail for the month of October.

The Parkman-Bald and Grandgent-Maple Spring intersections were modestly busy with 23.5 and 18.0 hikers per hour respectively. Many of these hikers are likely the same individuals as this is a common route to and from Sargent Mountain. At Parkman-Bald, the high rate may be the result of same hikers passing through the intersection a second time after climbing Parkman Mountain. The Birch Spring intersection is less used, having only 10 hikers per hour.

The hiker traffic at the St. Sauveur Summit was 23 hikers per hour. It seems likely that many of these hikers are making the short loop out to Valley Peak for the views and are counted a second time passing by the summit, from which there is no view. North Bubble had about 20 hikers per hour, far less than its neighbor South Bubble. Connors Nubble had a surprising number of hikers – 12 per hour – for a peak that is accessed via a carriage road walk of a mile (or bike ride) from either direction, or via the Bubbles Trail or the less used Eagle Lake Trail. Kebo Mountain had a little over three hikers per hour.

Ridgerunners observed 0.46 dogs off leash per hour of observation. This is very high compared to our previous data. Fifty-eight percent of dogs were observed on leash. Volunteers found better compliance with the leash law than ridgerunners, with 0.23 dogs off leash per hour and 67% of dogs on leash.

At the Parkman Mountain – Bald Peak intersection, most hikers were coming from the Hadlock Brook Trail (nearly 50%) and going to the Parkman Mountain summit (nearly 57%). Fewer hikers were coming from or going to Bald Peak. At Birch Spring, most hikers were using the Sargent Mountain South Ridge Trail going north and south to Sargent Mountain and Cedar Swamp Mountain respectively, and the fewest were using the Amphitheatre Trail towards the Amphitheatre Bridge. At the Grandgent – Maple Spring Trail intersection, most hikers (more than 50%), came from Parkman Mountain and were going to Sargent Mountain. Most traffic over Connors Nubble is south to north and most traffic to and from North Bubble is from the south and the Bubble Divide Trail. Kebo Mountain traffic is slightly more from north to south and St. Sauveur Mountain traffic is slightly more from south to north.

Between May 1 and October 31, 2014, the Gorham Mountain Trail counter recorded a traffic count of 57,933, which is similar to the previous four years but substantially above 2008 and 2009. August 2014 was the busiest August by a considerable amount for the second year in a row, with mean traffic of 698 +/- 56 and a total traffic count of 21,647. The busiest days were August 12, August 11, and July 29 with traffic counts of 1,082, 1,012, and 1,005 respectively.

In contrast to the heavily used Gorham Mountain Trail, the Triad Trail counter recorded a count of 2,219 from May 21 – October 31, 2014, which was similar to previous years even with the late May start. Mean daily traffic in July and August was the same, 21 +/- 4, which is also similar to previous years. July 11, 2014 was the busiest day on the Triad Trail with traffic of 57. Based on the seven years of data, peak traffic volume is about 50 – 60 in July or August and the highest monthly mean daily use is about 20 - 25.

The trail counter data suggests increasing use in most months for Gorham Mountain and some months for the Triad.

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1997: Jim Cavanaugh, Emily Davis, Dana Gross, Stewart Strawbridge, Alex Wilke
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1999: Joe Cashion, Ali Davis, Molly Dodge, Brian Hiester, Christy Nuss, Tim Foley
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2001: Matt Barrett, Jakob Bueche, Lindsay Madeira, Kimberly Nathane, Brian Malone
2002: Mike Daubenspeck, Scott Pierce, Patti Reidman, Kate Tanski, Brian Malone,
2003: Lyrica Hammann, Don Lenahan, Scott Pierce, Will Dominie,
2004: Sadie Anderson, Catie Carter, Jessi Graff, Don Lenahan, David Kleinpeter,
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INTRODUCTION

Acadia National Park offers spectacular and easily accessible hiking for visitors. With 2.4 million annual visits, tens of thousands of visitors take to the trails each year. In one study, 79% of park visitors reported that they hiked on park trails (Manni et al 2010).

Summits are the main destinations, and Acadia's summits harbor an unusual community of subalpine flora, including several rare species. A thin layer of nonrenewable mountain soil supports this flora. This subalpine environment is very sensitive to visitor use due to a short growing season, severe weather conditions, the thin soil layer, and the volume of hiker traffic.

A greater effort to educate the hiking public about low impact use or "Leave No Trace" principles began in 1998. This program is important for the long-term protection of subalpine summits and other park areas. Park trail crews continue to work in subalpine areas to help concentrate hiker use on trails as much as possible. This will also protect the thin soils and subalpine flora. A third effort also serves the long-term interest of protecting Acadia's subalpine summits - monitoring visitor use. If there is a need to more intensively manage hiking use to protect park resources or visitor experiences, use monitoring data should help inform decisions.

We have reported on summit and intersection use with in-person counts and trail use with electronic trail counters together now since 2008 using data collected by electronic trail counters, ridgerunners, and park volunteers (Jacobi 2013, Jacobi 2012, Jacobi 2011, Jacobi 2010, and Jacobi 2008). Earlier summit reports combined data over a two or three year period (see Jacobi 2007, Jacobi 2006, Jacobi 2003a, Jacobi 2001a, Jacobi 1999, and Jacobi 1997).

In 2014, ridgerunners counted at three intersections around Sargent Mountain to give us a picture of hiker use there. Volunteers counted on three minor summits we had not covered before. This report covers data collection from both of these efforts and electronic trail counters located on the Gorham Mountain Trail, the Triad Trail (formerly Pemetic Mountain Trail), and the new Otter Cove Trail near its junction with the Gorham Mountain Trail.

METHODS

SUMMIT AND INTERSECTION COUNTS

The three intersections ridgerunners counted at were: 1. the junction of the Parkman Mountain and Bald Peak Trails (in the notch between the two peaks); 2. at Birch Spring, the junction of the Sargent South Ridge and Amphitheater Trails; and 3. the junction of the Grandgent and Maple Spring Trails (see Figure 1). We counted at all three sites on seven days, two sites on four days, and one site on one day. All counts were made for three consecutive hours beginning at 11:30 a.m. Counts were made only when the weather was sunny or cloudy. Rainy, drizzly, or very foggy days were avoided. Data sheets are in Appendix 1.

Volunteers hiked on their own schedule and made counts in July and August, with a few on September and October weekends. They made seven counts on North Bubble, six counts on

Kebo Mountain, three counts on St. Sauveur Mountain, and three counts on Conners Nubble. With a few exceptions, all counts were made for three consecutive hours beginning at 11:00 a.m. As with ridgerunners, counts were made only when the weather was sunny or cloudy. Rainy, drizzly, or very foggy days were avoided. Data sheets are in Appendix 2.

On summits and at intersections, we recorded the direction hikers “came from” and “went to” as they passed through the intersection (see Appendices 1 and 2). This gives a measure of total hiker traffic on a section of trail as well as the total number of hikers passing through the intersection. We also recorded group size and the number of dogs on and off leash.

We did not try to sample hiking days randomly across the summer with either volunteers or ridgerunners and sample sizes for each location are limited. Thus, we must be very careful drawing conclusions from the information available. It best represents only the days hiked, and only begins to give a picture of hiking activity during good weather in the summer at these locations.

TRAIL COUNTERS

We installed electronic trail counters (Diamond Traffic Products, TCS 4420) about 100-200 meters up three trails: the Gorham Mountain Trail (from the south trailhead); the Triad Trail (up from Intersection 17 on the carriage roads); and the new Otter Cove Trail about 100 yards from its intersection with the Gorham Mountain Trail (Figure 1). Data was collected between May 1 and October 31 for Gorham Mountain, May 21 and October 31 for the Triad, and only October for Otter Cove to a counter malfunction. The UTM coordinates (Northing, Easting) for two of the three sites are: Gorham Mountain 4907414.794000, 564356.963000; and Triad 4907287.365000, 561000.257000.

These trail counters monitor hiker traffic passing in both directions on the trail, recording data hourly and storing it for later retrieval. A hand held “Data Hog” was used to download the hourly data from the trail counters once or twice a summer. This data was then uploaded into a computer using Centurion Parks software from Diamond Traffic Products, and opened in Excel for analysis.

There are some unavoidable weather-related problems when using electronic trail counters. Rainy or foggy weather causes droplets to condense on the counter lenses and the reflector. When this occurs, the counter should stop counting. It usually does, but sometimes very high hourly counts are recorded during wet weather also. After checking weather records and relying on our knowledge of use of these trails, we deleted obvious overcounts. We will go into more detail about our protocols in the Data Analysis section of this report. Exceptionally windy weather can move the trees that counters are installed on and cause overcounts as well. This is much harder to pinpoint with weather records, but if it appeared to be a significant problem we would move the trail counter site.

We did not validate hiker traffic at the trail counters. When we validated traffic at Gorham Mountain in 2009, the ratio of actual traffic to counter-recorded traffic was nearly 1 to 1 (Jacobi 2009). The Triad and Kebo Brook Trails receive such little use that validation would be very



FIGURE 1: LOCATIONS OF INTERSECTION AND SUMMIT COUNTS, AND TRAIL COUNTERS, ACADIA NATIONAL PARK.

time consuming; we will assume based on the low traffic volume and the nature of the sites (on a steep incline, rough tread, or little opportunity for side by side traffic) that the counter captures almost all hiker traffic on close to a 1 to 1 basis.

DATA ANALYSIS

Summits and Intersections

Summit data from volunteers was entered into our summit Microsoft Access database. Because of the limited sample sizes for each summit ($n=3-7$), we limited analysis to daily and hourly means for each site and summary data for the dogs off/on leash and group size for all sites.

Data for intersections was entered into a Microsoft Excel spreadsheet statistical analysis. With sample sizes of 10 or 11, our analysis included totals, means, and confidence intervals for daily and hourly data for each site and summary data for the dogs off/on leash and group size for all sites.

Trail Counters

We eliminated hourly data from our analysis based on our local knowledge, inconsistencies with an overall view of the data for each site, and a check of weather records for rain/fog. Then we performed descriptive statistics on trail counter data (sums, means, and confidence intervals), using only the 15 hours from 6:00 a.m. to 9:00 p.m.

It has been a challenge to determine how to address the rainy day data, whether it was higher than expected counts or a string of zeroes. For the past two years we incorrectly applied a 2/3 rule (to eliminate the entire day of data from analysis) to our data; instead of six hours of reliable counts (as for carriage roads) we should have used ten hours (2/3 of 15 hours). From here on we will apply the 2/3 rule at 10 hours for any combination of higher than expected counts *and* zeroes that is clearly the result of rainy weather. Thus, if we have only nine hours of reliable counts due to rain (meaning we eliminated six hours of data), we will eliminate all data for the entire day. For any days with unexplained high counts (not the result of rain but perhaps faulty equipment), we will make a judgment about whether to include this in our data set based on our experience. What this means is that the rainiest days will not be represented in our data, and that importantly, the mean daily use figures will reflect hiker use only for days with tolerable (or more typical) hiking conditions.

This protocol is even more of a challenge with our long-term site at the Triad, which has very low use (often many hours of zero hikers on even nice days), and but has worked very well in the rain since inception, shutting down and recording mostly zeroes, with only occasional higher than expected counts. We will apply the “zero” part of this rule here using our best judgment.

For the Gorham Mountain counter we removed from analysis a total of 145 hours on 18 days. Of these hours, 18 cannot be explained by rain or fog. Nine full days were removed from analysis (due to the 2/3 rule), one in May, one in June, three in July, and four in October. For the Triad counter we removed one hour on each of 6 days mostly because of rain/fog. Only one instance could not be explained by rain. Three hours were removed from the Otter Cove Trail

Counter data for October, and only one could not be explained by rain. Remember that trail counter data records hiker traffic in both directions, not the number of individual hikers using a trail.

RESULTS

INTERSECTION AND SUMMIT COUNTS

A summary of the data gathered at intersections by ridgerunners is shown in Table 1 (details in Appendix 3). The Parkman-Bald and Grandgent-Maple Spring intersections were relatively busy with 23.5 and 18.0 hikers per hour respectively. Many of these hikers are likely the same individuals as this is probably a common route to and from Sargent Mountain. In 2011, about 26 hikers arrived at the summit of Sargent Mountain per hour from all directions during the same hours. At Parkman-Bald, the high rate may be the result of same hikers passing through the intersection a second time after climbing Parkman Mountain. The Birch Spring intersection is a little more obscure, with only 10 hikers per hour passing through.

TABLE 1: HIKER COUNT DATA AND DOG DATA FROM THREE TRAIL INTERSECTIONS IN ACADIA NATIONAL PARK IN SUMMER 2014				
Measure	Parkman-Bald	Birch Spring	Grandgent-Maple Spring	Total
# of Counts	10	11	11	32
# of Hours Counted	30	33	33	96
Mean # Hikers/3 Hours ¹	70.5 +/- 29.53	29.64 +/- 9.12	54.09 +/- 22.8	--
Range # Hikers/3 Hours	16 - 123	7 - 55	7 - 118	--
Mean # Hikers/Hour ¹	23.5 +/- 6.8 ³	9.9 +/- 2.3	18.0 +/- 5.0	--
Range # Hikers/Hour	2 - 71	0 - 30	0 - 56	--
Dogs Off Leash	14	11	19	44
Dogs On Leash	28	15	19	62
1. 95% confidence interval.				
			Dogs Off Leash/Hour	0.46
			Dogs off Leash Percent	41.51
			Dogs On Leash Percent	58.49

The number of dogs off leash per hour is a statistic we have tracked with our summit counts in the past. For all three intersections together, there were 0.46 dogs off leash per hour of observation. This is very high compared to most of our summit count data which is shown in Table 3. Fifty-eight percent of dogs were observed on leash and 42% were observed off leash. Percent data for dogs is highly variable, perhaps due to the changing locations of summits and intersections at which we count from year to year.

A summary of the data gathered at four less used summits by volunteers is shown in Table 2 (details in Appendix 4). Even with a limited data set for each of these summits, a few surprises appeared. The hiker traffic at the St. Sauveur Summit is quite high. It seems likely that many or most of these hikers are making the short loop out to Valley Peak for the views and are counted twice passing by the summit, from which there is no view. Connors Nubble also gets a surprising number of hikers for a peak that is accessed via a carriage road walk of a mile (or bike ride) from either direction, or via the Bubbles Trail or the obscure Eagle Lake Trail. Maybe

some of these hikers are doing a bike and hike. The very low use of Kebo Mountain is also interesting. There are other mountains requiring about the same amount of effort that have much better views (e.g. South Bubble, Gorham Mountain, Flying Mountain). Volunteers observed better compliance with the leash law than ridgerunners, with 0.23 dogs off leash per hour and 67% of dogs on leash.

TABLE 2: HIKER COUNT DATA AND DOG DATA FROM FOUR LESS USED SUMMITS IN ACADIA NATIONAL PARK IN SUMMER AND WEEKENDS IN THE FALL 2014					
Measure	Connors Nubble	St. Sauveur	N. Bubble	Kebo Mtn	Total
# of Counts	4	3	7	5	19
# of Hours Counted	12	9	21	15	57
Mean # Hikers/3 Hours	35	69	60	10	--
Range # Hikers/3 Hours	20 - 65	55 - 90	28 - 110	4 - 12	--
Mean # Hikers/Hour ¹	11.7	23.1	19.9	3.33	--
Range # Hikers/Hour	1 - 33	9 - 43	5 - 42	1 - 7	--
Dogs Off Leash	1	4	5	3	13
Dogs On Leash	7	6	12	2	27
1. No confidence intervals due to small sample sizes.					
Dogs Off Leash/Hour					0.23
Dogs Off Leash %					33%
Dogs On Leash %					67%

Table 3 show the dog off/on leash data for all previous summit counts for comparison.

TABLE 3: PERCENT OF DOGS OFF LEASH AND DOGS ON LEASH, AND DOGS OFF LEASH PER HOUR IN ACADIA NATIONAL PARK BY LOCATION FOR 1997 – 2012¹					
Years	Summit Locations	# of Observation Hours	Dogs off Leash	Dogs on Leash	Dogs off Leash per Hour of Observation
1997-1998	Beech, Dorr, Gorham, Sargent + other summits	139	62% (n=42)	38% (n=26)	0.302
1999-2000	Acadia, Beech, Gorham, Sargent + other summits	105	47% (n=34)	53% (n=39)	0.324
2001	Acadia Beech Gorham Sargent + other summits	114	39% (n=42)	61% (n=65)	0.368
2002-2003	Acadia, Champlain, Penobscot, Pemetic, Sargent	229	46% (n=73)	54% (n=86)	0.319
2004-2005	Beech, Dorr, Gorham, Sargent	274	29% (n=67)	71% (n=165)	0.244
2006-2007	Acadia, Champlain, Penobscot, Pemetic, Sargent	284	28% (n=44)	72% (n=113)	0.155
2008	Great Notch, Norumbega, Sargent	146	61% (n=46)	38% (n=29)	0.315
2009	Acadia, Dorr, South Bubble	131	13% (n=12)	87% (n=82)	0.091
2010	Beech, Norumbega, Pemetic	172	33% (n=43)	67% (n=88)	0.250
2011	Beehive, Sargent, Great Notch	165	49% (54)	51% (57)	0.33
2012	Acadia, Dorr, South Bubble	167	22% (43)	78% (153)	0.26

1. In 2004, we began counting dogs only during our time on the summit instead of entire hike.

Table 4 shows the percent of three sizes of hiking groups for summit and intersection counts from volunteers and ridgerunners over a 17 year period. The data from 2014 is consistent with previous years.

TABLE 4: PERCENT OF HIKING GROUPS IN THREE SIZE RANGES IN ACADIA NATIONAL PARK FOR 1997 – 2014			
Years	1-4 Persons	5-8 Persons	9 or more Persons
1997 - 1998	89%	10%	1%
1999 - 2001	87%	10%	3%
2002 - 2003	89%	9%	2%
2004 - 2005	84%	14%	2%
2006 - 2007	88%	10%	2%
2008	87%	12%	1%
2009	86%	13%	1%
2010	85%	13%	2%
2011	81%	16%	3%
2012	84%	14%	2%
2013	--	--	--
2014 ¹	86%	11%	3%
2014 ²	91%	8%	<1%

1. Ridgerunners. 2. Volunteers

Direction of travel data from ridgerunner intersection counts around Sargent Mountain is shown in Tables 5, 6, and 7. Although the “To” and “From” counts for these sites should be equal, they are not. Nonetheless we are confident the data is representative of hiker traffic through these intersections. For the Parkman Mountain – Bald Peak intersection, most hikers were coming from the Hadlock Brook Trail (nearly 50%) and going to the Parkman Mountain summit (nearly 57%). Fewer hikers were coming from or going to Bald Peak. At Birch Spring, most hikers were using the Sargent Mountain South Ridge Trail going north and south to Sargent Mountain and Cedar Swamp Mountain respectively, and the fewest were using the Amphitheatre Trail towards the Amphitheatre Bridge. At the Grandgent – Maple Spring Trail intersection, most hikers (more than 50%), came from Parkman Mountain and were going to Sargent Mountain.

TABLE 5: NUMBER AND PERCENT OF HIKERS “COMING FROM” AND “GOING TO” THROUGH THE PARKMAN MOUNTAIN - BALD PEAK INTERSECTION IN ACADIA NATIONAL PARK 2014¹				
Measure	From Parkman Summit	From Bald Peak	From Hadlock Brook Trail	Total
# of Hikers	239	118	339	696
% of Hikers	34.34%	16.95%	48.71%	100%
	To Parkman Summit	To Bald Peak	To Hadlock Brook Trail	Total
# of Hikers	383	149	142	674
% of Hikers	56.82%	22.11%	21.07%	100%
	To and From Parkman Summit	To and From Bald Peak	To and From Hadlock Brook Trail	Total
Total # Hikers	622	267	481	1370
% of Hikers	45.40%	19.49%	35.11	100%

1. For 10 or 11 3-hour counts starting at 11:30 a.m.

TABLE 6: NUMBER AND PERCENT OF HIKERS “COMING FROM” AND “GOING TO” THROUGH THE BIRCH SPRING INTERSECTION IN ACADIA NATIONAL PARK 2014¹

Measure	From Sargent Mtn	From Hadlock Brk Tr	From Cedar Swamp Mtn	From Amphi Tr	Total
# of Hikers	110	48	141	23	322
% of Hikers	34.16%	14.91%	43.79%	7.14%	100%
	To Sargent Mtn	To Hadlock Brk Tr	To Cedar Swamp Mtn	To Amphi Tr	Total
# of Hikers	143	67	64	33	307
% of Hikers	46.58%	21.82%	20.85%	10.75%	100%
	To and From Sargent Mtn	To and From Hadlock Brk Tr	To and From Cedar Swamp Mtn	To and From Amphi Tr	Total
Total # Hikers	253	115	205	56	629
% of Hikers	40.22%	18.28%	32.59%	8.9%	100%

1. For 10 or 11 3-hour counts starting at 11:30 a.m.

TABLE 7: NUMBER AND PERCENT OF HIKERS “COMING FROM” AND “GOING TO” THROUGH THE GRANDGENT – MAPLE SPRING TRAIL INTERSECTION IN ACADIA NATIONAL PARK 2014¹

Measure	From Sgt Mtn via Grandgent Tr	From Carr Rd via Maple Spr Tr	From Maple Spring	From Parkman Mtn via Grandgent	Total
# of Hikers	114	110	69	296	589
% of Hikers	19.35%	18.68%	11.71%	50.25%	100%
	To Sgt Mtn via Grandgent Tr	To Carr Rd via Maple Spr Tr	To Maple Spring	To Parkman Mtn via Grandgent	Total
# of Hikers	295	80	56	131	562
% of Hikers	52.49%	14.23%	9.96%	23.31%	100%
	To and From Sgt Mtn via Grandgent Tr	To and From Carr Rd via Maple Spr Tr	To and From Maple Spring	To and From Parkman Mtn via Grandgent	Total
Total # Hikers	409	190	125	427	1151
% of Hikers	35.53%	16.51%	10.86%	37.00%	100%

1. For 10 or 11 3-hour counts starting at 11:30 a.m.

Direction of travel data from volunteer summit counts are shown in Table 8. From this we see that most traffic over Connors Nubble is south to north and most traffic to and from North Bubble is from the south, the Bubble Divide Trail. Kebo Mountain traffic is slightly more from north to south and St. Sauveur Mountain traffic is slightly more from south to north.

TABLE 8: NUMBER AND PERCENT OF HIKERS “COMING FROM” AND “GOING TO” SOUTH OR NORTH OVER FOUR LESS USED SUMMITS IN ACADIA NATIONAL PARK 2014¹

Measure	Conners Nubble From South (n=4)	Conners Nubble From North(n=4)	North Bubble From South (n=7)	North Bubble From North (n=7)
# of Hikers	97	43	359	59
% of Hikers	69%	31%	86%	14%
	Conners Nubble To South	Conners Nubble To North	North Bubble To South	North Bubble To North
# of Hikers	47	93	302	116
% of Hikers	34%	66%	72%	28%
Measure	Kebo Mtn From South (n=5)	Kebo Mtn From North (n=5)	St. Sauveur From South (n=3)	St. Sauveur From North (n=3)
# of Hikers	17	33	105	103
% of Hikers	34%	66%	50%	50%
	Kebo Mtn To South	Kebo Mtn To North	St. Sauveur To South	St. Sauveur To North
# of Hikers	28	22	88	120
% of Hikers	56%	44%	42%	58%

1. For a small number of 3-hour counts starting at 11:00 a.m.

TRAIL COUNTERS

As mentioned in the Methods section, interpretation of data from these trail counters is complicated by rain and fog and the necessity of applying quality control measures based on our familiarity with visitor use of these sites. This is especially true of the Gorham Mountain site where we have had to remove a considerable amount of suspect data every year. Nonetheless, the data show some degree of consistency from year to year as well as some unusual and unexplained variation, which may also simply be natural variation. Rainy or foggy weather or wind is likely a major contributor to the variation.

Between May 1 and October 31, 2014, the Gorham Mountain Trail counter recorded a traffic count of 57,933, which is similar to the previous four years but still substantially above 2008 and 2009 (Table 9, Appendix 5 for details). August 2014 was the busiest August by a considerable amount for the second year in a row, with mean traffic of 698 +/- 56 and a total traffic count of 21,647. The busiest days were August 12, August 11, and July 29 with traffic counts of 1,082, 1,012, and 1,005 respectively. There were four other days in August and four in July with traffic counts greater than 800. Many of the busiest days in July and August on the Gorham Mountain Trail match up with the busiest days on the carriage roads (see Jacobi 2014a) and the Sand Beach and Paradise Hill Road traffic counters (park files).

In contrast to the heavily used Gorham Mountain Trail, the Triad Trail counter recorded a count of 2,219 from May 21 – October 31, 2014 (Table 10, Appendix 5 for details), which was similar to previous years even with the late May start. Mean daily traffic in July and August was the same, 21 +/- 4, which is also similar to previous years. July 11, 2014 was the busiest day on the Triad Trail with traffic of 57, but traffic here does not correlate well with other measures of park use. Based on the seven years of data, peak traffic volume is about 50 – 60 in July or August and the highest monthly mean daily use is about 20 - 25.

Figures 2 and 3 show the Mean Daily Traffic Counter Counts at the Gorham Mountain and Triad Trails by month for seven years with 95% confidence intervals. The confidence intervals are relatively wide, probably because weather has such a dampening effect on use, but also, for May and October, because major holiday weekends with high use are included with lower use weekdays 2-3 weeks earlier or later in the season.

Table 11 shows non-overlapping confidence intervals for the Gorham Mountain and Triad trail Counters by month. Most of these non-overlapping intervals are between the early years and the later years suggesting that use has increased over time. The 2013v2014 difference for Gorham Mountain is the result of the government shutdown that closed the park. Rounding to numbers with no decimal points for simplicity may have influenced how some very close intervals were classified.

TABLE 11: NON-OVERLAPPING CONFIDENCE INTERVALS FOR THE GORHAM MOUNTAIN AND TRIAD TRAIL COUNTERS BY MONTH 2008 - 2014						
Site	May	June	July	August	Sept	Oct
Gorham	2008v2014	2009v2012	2008v2014	2008v2013,	2008v2011	2013v2014
	2009v2014	2009v2014	2009v2014	2008v2014	2008v2013	
			2010v2014	2009v2013	2008v2014	
				2009v2014		
Triad		2008v2010	2008v2014	2008v2013	2008v2011	
		2008v2014			2008v2012	
					2008v2013	
					2009v2013	

The new Otter Cove Trail counter recorded an average two-way traffic of 43 +/- 11 hikers per day in October with the three highest numbers recorded Saturday – Monday of Columbus Day Weekend: 93, 111, and 96 (details in Appendix 5).

**TABLE 9: MONTHLY TRAIL COUNTER STATISTICS FOR THE GORHAM MOUNTAIN TRAIL,
ACADIA NATIONAL PARK 2008 – 2014.**

2008				2009			
Month	Mean +/-95% CI	Range	Total Count	Month	Mean +/-95% CI	Range	Total Count
May (n=31)	92 +/- 35	15 - 506	2853	May (n=31)	101 +/- 33	0 - 372	3136
June (n=30)	227 +/- 43	48 - 625	6796	June (n=28)	201 +/- 40	30 - 344	5636 ¹
July (n=31)	457 +/- 43	160 - 696	14161	July (n=31)	437 +/- 58	121 - 784	13572
Aug (n=31)	502 +/- 68	110 - 889	15564	Aug (n=31)	524 +/- 61	41 - 866	16257
Sept (n=29)	207 +/- 26	33 - 349	6004	Sept (n=30)	267 +/- 35	116 - 585	8001
Oct (n=14)	243 +/- 85 ²	80 - 633	3402	Oct (n=31)	166 +/- 47	17 - 597	5159
Total	--	--	48780	Total	--	--	51761
1. Data collection only Oct. 1 – 14.							
2010				2011			
Month	Mean +/-95% CI	Range	Total Count	Month	Mean +/-95% CI	Range	Total Count
May (n=31)	126 +/- 42	13 - 534	3895	May (n=22)	120 +/- 52	0 - 437	2637
June (n=28)	241 +/- 54	7 - 568	7216	June (n=28)	286 +/- 63	47 - 686	8007
July (n=31)	466 +/- 56	35 - 755	14438	July (n=31)	531 +/- 52	298 - 833	16463
Aug (n=31)	589 +/- 67	248 - 906	18270	Aug (n=30)	563 +/- 92	2 - 1118	16884
Sept (n=30)	266 +/- 47	61 - 733	7982	Sept (n=30)	309 +/- 60	87 - 722	9256
Oct (n=28)	182 +/- 56	0 - 606	5635	Oct (n=28)	177 +/- 69	0 - 723	4942
Total	--	--	57436	Total	--	--	58189
2012				2013			
Month	Mean +/-95% CI	Range	Total Count	Month	Mean +/-95% CI	Range	Total Count
May (n=23)	156 +/- 77	0 - 706	3582	May (n=29)	120 +/- 39	12 - 421	3479
June (n=30)	289 +/- 45	46 - 462	8661	June (n=30)	270 +/- 49	17 - 520	8104
July (n=29)	499 +/- 61	72 - 739	14472	July (n=29)	522 +/- 70	84 - 931	15127
Aug (n=30)	583 +/- 68	0 - 887	17475	Aug (n=30)	657 +/- 70	171 - 1001	19724
Sept (n=28)	257 +/- 51	0 - 555	7193	Sept (n=29)	303 +/- 42	60 - 626	8776
Oct (n=31)	177 +/- 51	0 - 633	5480	Oct (n=31)	108 +/- 18	29 - 279	3351
Total	--	--	56863	Total	--	--	58561
2014				2015			
Month	Mean +/-95% CI	Range	Total Count	Month	Mean +/-95% CI	Range	Total Count
May (n=11)	234 +/- 86	93 - 678	2337	May (n=)			
June (n=29)	352 +/- 66	59 - 723	10215	June (n=)			
July (n=28)	628 +/- 69	271 - 734	17592	July (n=)			
Aug (n=31)	698 +/- 56	465 - 1082	21647	Aug (n=)			
Sept (n=30)	319 +/- 32	127 - 484	9565	Sept (n=)			
Oct (n=27)	252 +/- 66	37 - 754	6792	Oct (n=)			
Total	--	--	57933	Total			

**TABLE 10: MONTHLY TRAIL COUNTER STATISTICS FOR THE TRIAD TRAIL,
ACADIA NATIONAL PARK 2008 – 2014.**

2008				2009			
Month	Mean +/-95% CI	Range	Total Count	Month	Mean +/-95% CI	Range	Total Count
May (n=29)	5 +/- 2	0 - 17	149	May (n=21)	6 +/- 3	0 - 29	136
June (n=17)	5 +/- 2	0 - 12	87	June (n=30)	7 +/- 2	0 - 23	219
July (n=31)	10 +/- 3	0 - 28	314	July (n=31)	16 +/- 5	0 - 66	511
Aug (n=31)	14 +/- 4	0 - 37	426	Aug (n=31)	16 +/- 3	0 - 37	491
Sept (n=30)	6 +/- 2	0 - 23	169	Sept (n=30)	9 +/- 3	0 - 36	272
Oct (n=14)	11 +/- 6	0 - 33	159	Oct (n=31)	6 +/- 3	0 - 28	188
Total	--	--	1304	Total	--	--	1817

2010				2011			
Month	Mean +/-95% CI	Range	Total Count	Month	Mean +/-95% CI	Range	Total Count
May (n=31)	5 +/- 2	0 - 29	152	May (n=22)	8 +/- 4	0 - 30	176
June (n=30)	12 +/- 4	0 - 38	345	June (n=29)	9 +/- 3	0 - 36	250
July (n=31)	17 +/- 4	0 - 49	520	July (n=31)	18 +/- 5	1 - 46	572
Aug (n=31)	22 +/- 5	0 - 61	697	Aug (n=30)	20 +/- 6	0 - 60	613
Sept (n=30)	12 +/- 4	0 - 40	368	Sept (n=30)	13 +/- 4	1 - 40	388
Oct (n=31)	7 +/- 3	0 - 33	217	Oct (n=31)	9 +/- 3	0 - 32	272
Total	--	--	2299	Total	--	--	2271

2012				2013			
Month	Mean +/-95% CI	Range	Total Count	Month	Mean +/-95% CI	Range	Total Count
May (n=31)	6 +/- 3	0 - 36	199	May (n=27)	7 +/- 3	0 - 24	188
June (n=30)	8 +/- 2	0 - 20	231	June (n=28)	9 +/- 3	0 - 27	265
July (n=31)	15 +/- 3	2 - 37	468	July (n=29)	16 +/- 4	1 - 38	469
Aug (n=31)	20 +/- 4	0 - 41	633	Aug (n=29)	24 +/- 5	4 - 65	695
Sept (n=30)	13 +/- 4	0 - 39	381	Sept (n=27)	16 +/- 3	5 - 33	419
Oct (n=31)	8 +/- 3	0 - 38	240	Oct (n=30)	6 +/- 2	0 - 18	186
Total	--	--	2152	Total	--	--	2222

2014				2015			
Month	Mean +/-95% CI	Range	Total Count	Month	Mean +/-95% CI	Range	Total Count
May (n=10)	10 +/- 7	1 - 34	115	May (n=)			
June (n=30)	9 +/- 3	0 - 27	267	June (n=)			
July (n=31)	21 +/- 4	6 - 57	652	July (n=)			
Aug (n=31)	21 +/- 4	8 - 48	663	Aug (n=)			
Sept (n=30)	9 +/- 2	0 - 20	270	Sept (n=)			
Oct (n=31)	8 +/- 3	0 - 30	252	Oct (n=)			
Total	--	--	2219	Total			

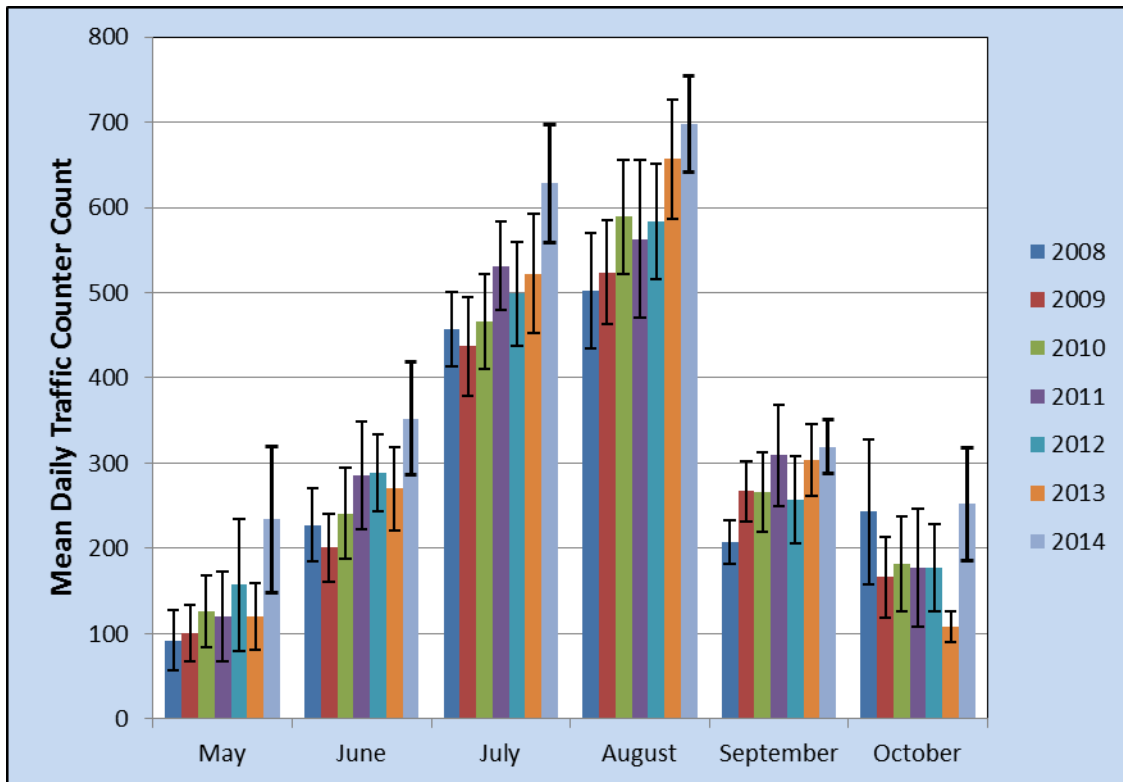


FIGURE 2: MEAN DAILY TRAIL COUNTER COUNT BY MONTH AT THE GORHAM MOUNTAIN TRAIL WITH 95% CONFIDENCE INTERVALS, 2008 - 2014.

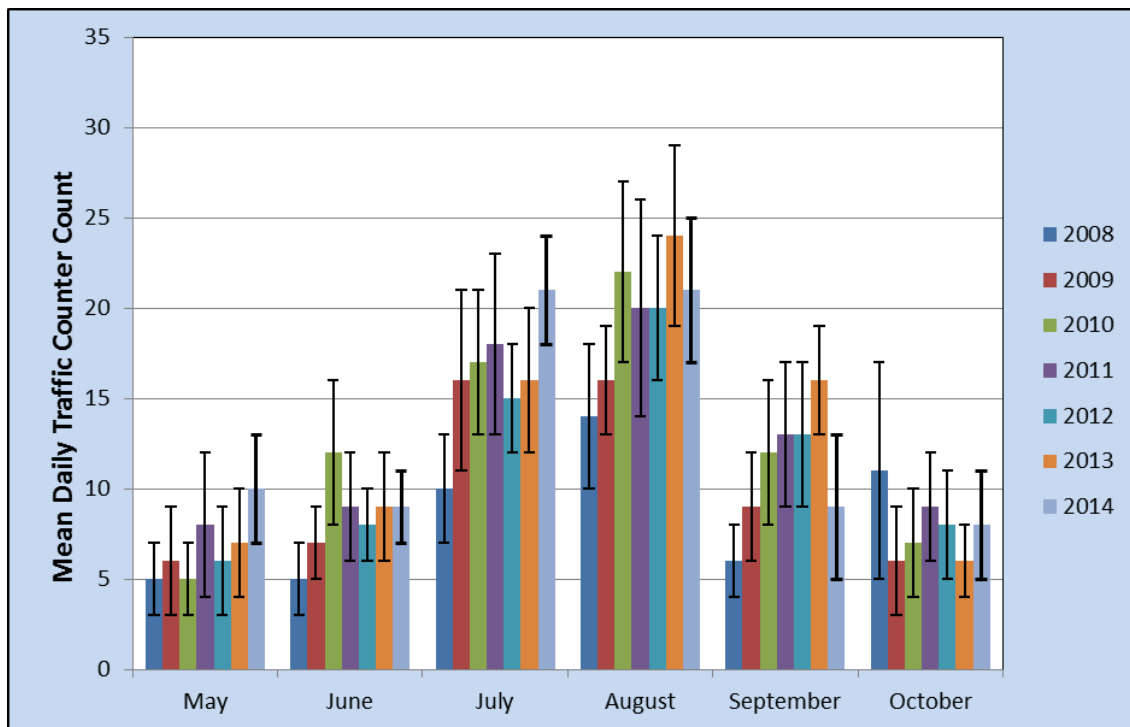


FIGURE 3: MEAN DAILY TRAFFIC COUNTER COUNT BY MONTH AT THE TRIAD TRAIL WITH 95% CONFIDENCE INTERVALS, 2008 - 2014.

SUMMARY AND DISCUSSION

The data collected under these programs is not as rigorous as we would like because we were unable to sample our intersection count days in a completely random manner and have a limited sample size for them. We are also unable to validate trail counter use. Therefore, caution should be used in drawing conclusions about trends in hiker use. Nonetheless, over time, we are building a database that is of some use now and in the future, and we will continue to tighten our data collection techniques. Data described here is consistent with previous data from trail censuses (Jacobi 2014b, Jacobi 2014c, Chase and Jacobi 2000, Jacobi 2003b, Jacobi 2002, Jacobi 2001b, Jacobi 2001c), and trail counters and summit counts (Jacobi 2013, Jacobi 2011, Jacobi 2010, Jacobi 2008, Jacobi 2007, Jacobi 2006, Jacobi 2003a, Jacobi 2001a, Jacobi 1999, Jacobi 1997).

INTERSECTION AND SUMMIT COUNTS

The Parkman-Bald and Grandgent-Hadlock Brook Trail intersections were modestly busy with hiker traffic to and from Parkman, Bald and Sargent Mountains. Birch Spring was much less busy. Ridgerunners observed a higher rate of dogs off leash than in most previous years.

Volunteer counts showed St. Sauveur to have a considerable amount of hiker traffic, perhaps many of them returning via the same trail. Connors Nubble had a surprising number of hikers, most easily explained by its proximity to the Eagle Lake Carriage Road and the opportunity to bike and hike. Kebo Mountain and North Bubble both had relatively low use considering their locations. Fewer dogs were observed off leash on these low use summits, which is also a little surprising. On these peaks, one would expect hikers to feel a little more free to let their dogs off leash.

For both counting efforts, direction of travel was as might be expected.

TRAIL COUNTER TRENDS

A visual inspection of the graphs shows increasing use in most months for Gorham Mountain and some months for the Triad. Non-overlapping confidence intervals also show that use may have increased in those instances. The problems with rain and wind at these sites, especially Gorham Mountain, also suggest caution in data interpretation however. As this dataset grows we will learn more about trends.

DIVERSITY OF EXPERIENCES

Our trail counter monitoring shows that the difference between high and low use trails in the park (Gorham Mountain vs. Triad) can be very wide. In the same way, based on hourly means, intersection and summit counts illustrate very different trail experiences. Preserving this type of diversity was a major goal of the hiking trails plan (NPS 2002).

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APPENDIX 1: RIDGERUNNER INTERSECTION HIKER COUNT INSTRUCTIONS AND DATA SHEET

Monitoring hiker use of intersections supplements 19 years of summit counts. It adds to a baseline of data for park managers to understand use patterns. Your counts help build this database of summit, intersection, and trail use. Use intersection time to educate hikers about LNT whenever possible!

Count Guidelines

1. We will focus on three intersections each year. Each day we will count at all three sites. Ridgerunners follow the schedule adjusting for weather postponements.

2014	Birch Spring	Low use
	Grandgent - Maple Spring jct	Low use
	Parkman Bald jct (saddle)	Moderate Use

Please follow these protocols!

- *Please make counts at the intersection for three consecutive hours **beginning at 11:00 a.m.***
- ***Do not count hikers arriving before or after your three hour block!***
- ***Record dogs on/off only while at intersections!***
- *Record # hikers each hour, group size categories, LNT contacts.*
- *Record legibly.*

2. Direction of travel can be confusing to record. Follow guidelines on your data sheet, which is unique for each site.

GRANDGENT – MAPLE SPRING TRAIL JCT. INTERSECTION DATA SHEET FOR RIDGERUNNERS

Please record data legibly. Use tic marks as needed-some intersections are very busy. Report problems with the form and recording data. *Time in and out* refer specifically to observation times on site, not the start and end of your hike.

Please complete all the shaded boxes and do the math

NAME >		DATE >		INTER SECTION >	Grandgent – Maple Spr Jct
TIME IN >		TIME OUT >		Circle one >>	SUNNY CLOUDY RAINY

# HIKERS APPROACHING FROM:	
North FROM Sargent Mtn via Grandgent Trail	South FROM Carriage Road via Maple Spring
	#
East FROM Maple Spring Trail	West FROM Parkman Mtn via Grandgent Trail
	#

# HIKERS LEAVING SUMMIT TO:	
North TO Sargent Mtn via Grandgent Trail	South TO Carriage Road via Maple Spring Trail
	#
East TO Maple Spring Trail	West TO Parkman Mtn via Grandgent Trail
	#

HIKERS PASSING INTERSECTION BY HOUR - Use Hand Counter to record, reset each hour.

10-11	#	11-12	#	12-1	#	1-2	#	2-3	#	3-4	#
-------	---	-------	---	------	---	-----	---	-----	---	-----	---

TOTAL # HIKERS THRU INT	#	LNTs	#
GROUP SIZE:	1-4	#	5-8
DOGS OFF LEASH	#	DOGS ON LEASH	#

(record dogs for time at INTERSECTION only!!!)

OTHER NOTES (Include dog data for rest of hike):

PARKMAN AND BALD MOUNTAIN TRAILS JCT INTERSECTION DATA SHEET FOR RIDGERUNNERS

Please record data legibly. Use tic marks as needed-some intersections are very busy. Report problems with the form and recording data. *Time in and out* refer specifically to observation times on site, not the start and end of your hike.

Please complete all the shaded boxes and do the math											
NAME >				DATE >			INTER SECTION >	Parkman – Bald Trls Jct			
TIME IN >			TIME OUT >			Circle one >>	SUNNY CLOUDY RAINY				
# HIKERS APPROACHING FROM:											
North FROM Parkman Mtn Summit				South FROM Parkman Mtn Trail							
			#				#				
East FROM Bald Peak Trail											
			#				#				
# HIKERS LEAVING SUMMIT TO:											
North TO Parkman Mtn Summit				South TO Parkman Mtn Trail							
			#				#				
East TO Bald Peak Trail											
			#				#				
# HIKERS PASSING INTERSECTION BY HOUR - Use Hand Counter to record, reset each hour.											
10-11	#	11-12	#	12-1	#	1-2	#	2-3	#	3-4	#
TOTAL # HIKERS THRU INT				#	LNTs				#		
GROUP SIZE:				1-4 #		5-8 #		9+ #			
DOGS OFF LEASH				#		DOGS ON LEASH				#	

(record dogs for time at INTERSECTION only!!!)

OTHER NOTES (Include dog data for rest of hike):

BIRCH SPRING INTERSECTION DATA SHEET FOR RIDGERUNNERS

Please record data legibly. Use tic marks as needed-some intersections are very busy. Report problems with the form and recording data. *Time in and out* refer specifically to observation times on site, not the start and end of your hike.

Please complete all the shaded boxes and do the math

NAME >		DATE >		INTER SECTION >	Birch Spring
TIME IN >		TIME OUT >		Circle one >>	☐ SUNNY ☐ CLOUDY ☐ RAINY

# HIKERS APPROACHING FROM:	
North FROM Sargent Mtn	South FROM Cedar Swamp Mtn
#	#
East FROM Hadlock Brook Trail	West FROM the Amphitheatre Trail
#	#

# HIKERS LEAVING SUMMIT TO:	
North TO Sargent Mtn	South TO Cedar Swamp Mtn
#	#
East TO Hadlock Brook Trail	West TO the Amphitheatre Trail
#	#

HIKERS PASSING INTERSECTION BY HOUR - Use Hand Counter to record, reset each hour.

10-11	#	11-12	#	12-1	#	1-2	#	2-3	#	3-4	#
-------	---	-------	---	------	---	-----	---	-----	---	-----	---

TOTAL # HIKERS THRU INT	#	LNTs	#
GROUP SIZE:		1-4	#
		5-8	#
		9+	#
DOGS OFF LEASH	#	DOGS ON LEASH	#

(record dogs for time at INTERSECTION only!!)

OTHER NOTES (Include dog data for rest of hike):

APPENDIX 2: MOUNTAIN SUMMIT HIKER COUNT INSTRUCTIONS AND DATA SHEET FOR VOLUNTEERS

Acadia's summits harbor a community of subalpine plants with several rare species. This community and its rare plants may be at risk from hiker traffic. Over many years, increasing use of park trails has also caused much erosion of soils and loss of plants. Some trails now have hundreds of hikers per day. Monitoring hiker use of the summits is important. It provides baseline data for park managers should a decision to limit or otherwise restrict hiking use be necessary to preserve the flora, the trailside environment, or the visitor experience. Your counts help build this database of summit and trail use. Use summit time to educate hikers about LNT!

Count Guidelines

In 2015, volunteers will count on North Bubble, Connors Nubble, Kebo Mountain and St. Sauveur Mountain.

Please follow these protocols!

- *Please make counts from the summit for three consecutive hours **beginning at 12:00 noon.***
- ***Do not count hikers arriving before or after your three hour block!***
- ***Record dogs on/off only while on summits!***
- *Use special data sheet for Great Notch!*
- *On Beehive, count at top of ladders area.*
- *On South Bubble count at the Bubble Rock area.*
- *Record data legibly.*

2. Volunteers make the count on a **good weather hiking day** at your convenience. Summer and spring and fall weekends are preferred. Ridgerunners follow a schedule that will be adjusted as weather intervenes.

3. Direction of travel can be confusing to record. Here are guidelines for each summit. To distinguish between N and W on Beech Mountain, S, W, and E on Dorr Mountain you must ask hikers which trail they came up and which trail they will go down, making contact with every group if possible.

Acadia: E = from ocean, W = from trailhead.	South Bubble: N = from notch, S = from J. Pond.
Beech: N=Fire Road, E = from Beech Mtn parking direct, S = from Valley Trail, W = from Long Pond parking.	Norumbega: N = from Norumbega parking, S = from Lower Hadlock Pond.
Beehive: S= up cliffs, N=from Bowl	Pemetic: N = from Bubbles parking and Bubble Pond, S = from Triad.
Dorr: N = N. Ridge, S = S. Ridge, E = from Sieur de Monts, W = from Gorge below Cadillac	Sargent: N=N. Ridge, S=S. Ridge, E= E.Cliff, W=Grandgent,
Great Notch – see separate data sheet	

For all sites other than Great Notch

Please complete all the shaded boxes and do the math											
NAME >			DATE >		SUMMIT >						
TIME IN >		TIME OUT >		Circle one >>		☐ SUNNY ☐ CLOUDY ☐ RAINY					
# HIKERS APPROACHING SUMMIT FROM:											
North					South						
				#					#		
East					West						
				#					#		
# HIKERS LEAVING SUMMIT TO:											
North					South						
				#					#		
East					West						
				#					#		
# HIKERS REACHING SUMMIT BY HOUR - Use Hand Counter to record, reset each hour.											
10-11	#	11-12	#	12-1	#	1-2	#	2-3	#	3-4	#
TOTAL # HIKERS TO SUMMIT				#	LNTs				#		
GROUP SIZE:					1-4	#	5-8	#	9+	#	
DOGS OFF LEASH				#	DOGS ON LEASH				#		

OTHER NOTES (Include dog data for rest of hike)

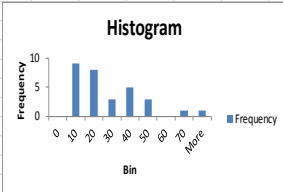
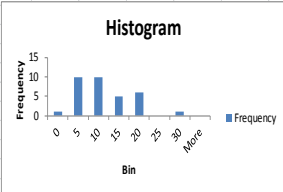
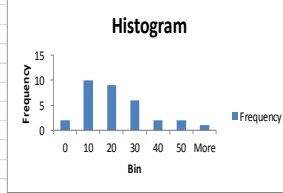
APPENDIX 3: RIDGERUNNER INTERSECTION COUNT DATA AND STATISTICAL ANALYSES: BASICS

Parkman/Bald												
LOCATION	NAME	DATE	TIMEIN	TIMEOUT	WEATHER	ELAPTIME	TOTALHIKER	DGOFFLEASH	DGONLEASH	GRP 1-4	GRP 5-8	GRP 9+
Parkman/Bald	Kristin Dillon	30-Jun-14	11:38	14:38	Sunny	3	16	0	0	6	0	0
	Kristin Dillon	02-Jul-14	11:35	14:35	Sunny	3	28	0	1	8	1	0
	Caleb Roebuck	11-Jul-14	11:30	14:30	Sunny	3	42	4	3	13	2	0
	Abby Seymour	13-Jul-14	11:30	14:30	Sunny	3	57	1	1	15	4	0
	Kristin Dillon	14-Jul-14	11:40	14:40	Sunny	3	77	1	4	25	2	0
	Kristin Dillon	17-Jul-14	11:30	14:30	Cloudy	3	29	0	0	15	0	0
	Kristin Dillon	29-Jul-14	11:30	14:30	Cloudy	3	107	3	5	19	4	1
	Kristin Dillon	11-Aug-14	11:13	14:13	Sunny	3	106	0	4	17	7	0
	Abby Seymour	12-Aug-14	11:30	14:30	Sunny	3	123	0	8	24	5	2
	Caleb Roebuck	19-Aug-14	11:30	14:30	Sunny	3	120	5	2	25	6	3
					Sum	30	705	14	28	167	31	6
					Mean	3.00	70.50					
					Count	10						
Birch Spring												
LOCATION	NAME	DATE	TIMEIN	TIMEOUT	WEATHER	ELAPTIME	TOTALHIKER	DGOFFLEASH	DGONLEASH	GRP 1-4	GRP 5-8	GRP 9+
Birch Spring	Kristin Dillon	01-Jul-14	11:40	14:40	Sunny	3	7	0	0	3	0	0
	Caleb Roebuck	02-Jul-14	11:30	14:30	Sunny	3	14	0	0	6	1	0
	Jeremy Epstein	11-Jul-14	11:30	14:30	Sunny	3	36	1	2	15	1	2
	Jeremy Epstein	13-Jul-14	11:30	14:30	Sunny	3	24	0	4	10	1	0
	Caleb Roebuck	17-Jul-14	11:30	14:30	Cloudy	3	25	1	0	5	2	0
	Jeremy Epstein	25-Jul-14	11:30	14:30	Sunny	3	42	1	4	21	0	0
	Caleb Roebuck	26-Jul-14	11:30	14:30	Sunny	3	37	2	2	16	2	0
	Justin Rutherford	29-Jul-14	11:30	14:30	Partly Sunny	3	22	2	0	10	1	0
	Justin Rutherford	11-Aug-14	11:30	14:30	Sunny	3	26	0	1	9	0	0
	Kristin Dillon	12-Aug-14	11:30	14:30	Sunny	3	55	3	1	31	0	1
	Justin Rutherford	19-Aug-14	11:30	14:30	Sunny	3	38	1	1	9	2	0
					Sum	33	326	11	15	135	10	3
					Mean	3.00	29.64					
					Count	11						
Grandgent/Maple Spring												
LOCATION	NAME	DATE	TIMEIN	TIMEOUT	WEATHER	ELAPTIME	TOTALHIKER	DGOFFLEASH	DGONLEASH	GRP 1-4	GRP 5-8	GRP 9+
Grgnt/Mpl Spr	Caleb Roebuck	01-Jul-14	11:30	14:30	Sunny	3	38	0	0	11	0	1
	Jeremy Epstein	02-Jul-14	11:30	14:30	Sunny	3	39	3	3	15	2	0
	Kristin Dillon	11-Jul-14	11:28	14:28	Sunny	3	31	5	0	8	2	0
	Abby Seymour	14-Jul-14	11:30	14:30	Sunny	3	19	0	0	4	2	0
	Jeremy Epstein	17-Jul-14	11:30	14:30	Sunny	3	7	0	0	4	0	0
	Caleb Roebuck	25-Jul-14	11:30	14:30	Sunny	3	51	2	0	20	1	0
	Jeremy Epstein	26-Jul-14	11:30	14:30	Sunny	3	59	1	3	22	2	0
	Caleb Roebuck	29-Jul-14	11:30	14:30	Cloudy	3	58	1	3	22	0	1
	Abby Seymour	11-Aug-14	11:30	14:30	Cloudy	3	118	3	4	21	7	2
	Justin Rutherford	12-Aug-14	11:30	14:30	Sunny	3	106	3	2	21	4	1
	Jeremy Epstein	19-Aug-14	11:30	14:30	Sunny	3	69	1	4	25	1	1
					Sum	33	595	19	19	173	21	6
					Mean	3	54.09					
					Count	11						
LOCATION	NAME	DATE	TIMEIN	TIMEOUT	WEATHER	ELAPTIME	TOTALHIKER	DGOFFLEASH	DGONLEASH	GRP 1-4	GRP 5-8	GRP 9+
					Sum	96	1626	44	62	475	62	15
								Sum All Dogs	106	Sum All Groups		552
								DGOFFLEASH	DGONLEASH	GRP 1-4	GRP 5-8	GRP 9+
								41.51%	58.49%	86.05%	11.23%	2.72%
							Dogs off/Hour	0.46				

APPENDIX 3: RIDGERUNNER INTERSECTION COUNT DATA AND STATISTICAL ANALYSES: DIRECTION (CONT.)

Parkman/Bald										
DATE	ELAPTIME	FR Pkman Smt	FR Bald Peak	FR Pkman Tr	TO Pkman Smt	TO Bald Peak	TO Pkman Tr	TOTALHIKER		
30-Jun-14	3	7	2	7	9	4	3	16		
02-Jul-14	3	12	5	11	16	10	2	28		
11-Jul-14	3	4	10	17	0	9	2	42		
13-Jul-14	3	20	11	26	41	4	12	57		
14-Jul-14	3	31	3	43	42	20	15	77		
17-Jul-14	3	9	5	15	16	11	2	29		
29-Jul-14	3	44	11	52	49	22	36	107		
11-Aug-14	3	10	34	62	80	16	10	106		
12-Aug-14	3	41	17	65	77	28	18	123		
19-Aug-14	3	61	20	41	53	25	42	120		
Sum	30	239	118	339	383	149	142	705		
Mean		23.9	11.8	33.9	38.3	14.9	14.2	70.5		
Max		61	34	65	80	28	42	123		
		FR Pkman Smt	FR Bald Peak	FR Pkman Tr	FR Ttl					
		34.34%	16.95%	48.71%	696					
		TO Pkman Smt	TO Bald Peak	TO Pkman Tr	TO Ttl					
		56.82%	22.11%	21.07%	674					
Birch Spring										
DATE	ELAPTIME	FR Sargent	FR Hadlock	FR Cdr Swmp	FR Amph	TO Sargent	TO Hadlock	TO Cdr Swmp	TO Amph	TOTALHIKER
01-Jul-14	3	5	2	0	0	2	5	0	0	7
02-Jul-14	3	0	8	0	1	0	2	3	0	14
11-Jul-14	3	13	7	16	0	20	9	7	0	36
13-Jul-14	3	9	1	12	2	8	14	2	0	24
17-Jul-14	3	4	0	19	2	17	0	4	4	25
25-Jul-14	3	15	7	18	3	22	3	15	2	42
26-Jul-14	3	17	4	16	0	12	7	4	4	37
19-Jul-14	3	12	6	4	0	8	4	8	2	22
11-Aug-14	3	13	3	4	6	7	8	4	7	26
12-Aug-14	3	17	0	31	7	26	11	12	6	55
19-Aug-14	3	5	10	21	2	21	4	5	8	38
Sum	33	110	48	141	23	143	67	64	33	326
Mean	3.00	10.00	4.36	12.82	2.09	13.00	6.09	5.82	3.00	29.64
Max	3	17	10	31	7	26	14	15	8	55
		FR Ttl	FR Sargent	FR Hadlock	FR Cdr Swmp	FR Amph				
		322	34.16%	14.91%	43.79%	7.14%				
		TO Ttl	TO Sargent	TO Hadlock	TO Cdr Swmp	FR Sargent				
		307	46.58%	21.82%	20.85%	10.75%				
Grandgent/Maple Spring										
DATE	ELAPTIME	FR Srgt via Grgnt	FR Carriage via Mpl Spr	FR Mpl Spr	FR Pkman via Grgnt	TO Srgt via Grgnt	TO Carriage via Mpl Spr	TO Mpl Spr	TO Pkman via Grgnt	TOTALHIKER
01-Jul-14	3	10	1	0	21	4	0	0	0	38
02-Jul-14	3	11	4	2	22	17	5	5	12	39
11-Jul-14	3	8	6	3	14	17	0	2	12	31
14-Jul-14	3	0	2	7	10	11	6	1	2	19
17-Jul-14	3	0	0	0	7	7	0	0	0	7
25-Jul-14	3	10	10	5	26	27	2	4	18	51
26-Jul-14	3	22	0	6	31	25	6	3	25	59
29-Jul-14	3	11	11	9	27	29	5	4	20	58
11-Aug-14	3	20	35	17	46	51	28	24	15	118
12-Aug-14	3	5	25	12	64	73	18	8	7	106
19-Aug-14	3	17	16	8	28	34	10	5	20	69
Sum	33	114	110	69	296	295	80	56	131	595
Mean	3	10.36	10.00	6.27	26.91	26.82	7.27	5.09	11.91	54.09
Max	3	22	35	17	64	73	28	24	25	118
		FR Ttl	FR Srgt via Grgnt	FR Carriage via Mpl Spr	FR Mpl Spr	FR Pkman via Grgnt				
		589	19.35%	18.68%	11.71%	50.25%				
		TO Ttl	TO Srgt via Grgnt	TO Carriage via Mpl Spr	TO Mpl Spr	TO Pkman via Grgnt				
		562	52.49%	14.23%	9.96%	23.31%				

APPENDIX 3: RIDGERUNNER INTERSECTION COUNT DATA AND STATISTICAL ANALYSES HOURLY (CONT.)

Parkman/Bald							Hourly		Hourly		Hourly													
DATE	HOUR11:30-12:30	HOUR12:30-13:30	HOUR13:30-14:30	TOTALHIKER	Parkman/Bald Descriptive Stats Daily		Parkman/Bald	Birch Spr	Ggt/Maple Spr	Parkman/Bald>>>>	Bin	Frequency			Parkman/Bald Descriptive Stats Hourly									
30-Jun-14	4	6	6	16	Mean	70.50	4	0	35	0	0	Mean			23.50									
02-Jul-14	19	2	7	28	Standard Error	13.05	19	6	8	10	9	Standard Error			3.33									
11-Jul-14	12	11	19	42	Median	67.00	12	5	8	20	8	Median			19.00									
13-Jul-14	32	20	5	57	Mode	#N/A	32	4	2	30	3	Mode			19.00									
14-Jul-14	2	46	29	77	Standard Deviation	41.28	2	8	0	40	5	Standard Deviation			18.22									
17-Jul-14	7	10	12	29	Sample Variance	1703.83	7	9	16	50	3	Sample Variance			331.98									
29-Jul-14	22	47	38	107	Kurtosis	-1.88	22	9	24	60	0	Kurtosis			0.32									
11-Aug-14	35	43	28	106	Skewness	0.05	35	4	3	70	1	Skewness			0.92									
12-Aug-14	71	35	17	123	Range	107.00	71	4	44	More	1	Range			69.00									
19-Aug-14	63	39	18	120	Minimum	16.00	63	6	21			Minimum	2.00											
Sum	267	259	179	705	Maximum	123.00	6	9	19			Maximum	71.00											
Mean	26.70	25.90	17.90	70.50	Sum	705.00	2	3	0			Sum	705.00											
Count	10				Count	10.00	11	5	17			Count	30.00											
					Confidence Level(95.0%)	29.53	20	15	15			Confidence Level(95.0%)	6.80											
							46	18	10															
							10	12	5															
							47	17	18															
							43	14	22															
Birch Spring					Birch Spring Descriptive Stats Daily					Birch Spr>>>>	Bin	Frequency			Birch Spring Descriptive Stats Hourly									
01-Jul-14	0	3	4	7	Mean	29.64	35	8	23	0	1	Mean			9.878788									
02-Jul-14	6	5	3	14	Standard Error	4.09	39	15	28	5	10	Standard Error			1.145444									
11-Jul-14	5	15	16	36	Median	26.00	6	19	29	10	10	Median			9									
13-Jul-14	4	18	2	24	Mode	#N/A	7	9	33	15	5	Mode			4									
17-Jul-14	8	12	5	25	Standard Deviation	13.57	19	4	3	20	6	Standard Deviation			6.580072									
25-Jul-14	9	17	16	42	Sample Variance	184.25	5	3	14	25	0	Sample Variance <td>43.29735</td>			43.29735									
26-Jul-14	9	14	14	37	Kurtosis	0.01	29	16	8	30	1	Kurtosis			1.079262									
29-Jul-14	4	8	10	22	Skewness	0.16	12	2	7	More	0	Skewness			0.96843									
11-Aug-14	4	15	7	26	Range	48.00	38	5	2			Range			30									
12-Aug-14	6	19	30	55	Minimum	7.00	28	16	17			Minimum	0											
19-Aug-14	9	9	20	38	Maximum	55.00	17	14	13			Maximum	30											
Sum	64	135	127	326	Sum	326.00	18	10	32			Sum	326											
Mean	5.82	12.27	11.55	29.64	Count	11.00	7	46				Count	33											
Count	11				Confidence Level(95.0%)	9.12	30	56				Confidence Level(95.0%)	2.333192											
							20	17																
Grandgnt/Maple Spring					GGT/Maple Spring Descriptive Stats Daily					GGT/Maple Spr>>>>	Bin	Frequency			Ggt/Maple Spr Descriptive Stats Hourly									
01-Jul-14	35	0	3	38	Mean	54.09	0	2		0	2	Mean			18.03									
02-Jul-14	8	17	14	39	Standard Error	10.23	10	10		20	9	Standard Error			2.43									
11-Jul-14	8	15	8	31	Median	51.00	20	9		30	6	Median			17.00									
14-Jul-14	2	10	7	19	Mode	#N/A	30	6		40	2	Mode			8.00									
17-Jul-14	0	5	2	7	Standard Deviation	33.94	50	2		50	2	Standard Deviation			13.97									
25-Jul-14	16	18	17	51	Sample Variance	1151.89	More	1				Sample Variance			195.09									
26-Jul-14	24	22	13	59	Kurtosis	0.09						Kurtosis			0.53									
29-Jul-14	3	23	32	58	Skewness	0.74						Skewness			0.90									
11-Aug-14	44	28	46	118	Range	111.00						Range			56.00									
12-Aug-14	21	29	56	106	Minimum	7.00						Minimum	0.00											
19-Aug-14	19	33	17	69	Maximum	118.00						Maximum	56.00											
Sum	180	200	215	595	Sum	595.00						Sum	595.00											
Mean	16.36	18.18	19.55	54.09	Count	11.00						Count	33.00											
Count	11				Confidence Level(95.0%)	22.80						Confidence Level(95.0%)	4.95											

APPENDIX 4: VOLUNTEER SUMMIT COUNT DATA AND STATISTICAL ANALYSES: BASICS

LOCATION	DATE	TIME	IN	ELAP	TIME	TOTAL	HIKER	DG	OFF	FLEASH	DG	ON	LEASH	GRP 1-4	GRP 5-8	GRP 8+	NAME
C. NUBBLE																	
	01-Aug-14	1100	3			65		0			2			16	3	1	LAURA
	20-Aug-14	1100	3			22		1		0	0			8	0	0	LAURA
	25-Aug-14	1100	3			20		0		0	0			8	0	0	LAURA
	12-Oct-14	1100	3			33		0		5				13	0	0	LAURA
	Sum Of ELAPTIME:					123	HIKER:	140	FLEASH:	1	ILEASH:	7	RP 1-4:	45	RP 5-8:	3	Of GRP 8+:
	Text64:					3	HIKER:	35									1
								Max Of 165									
KEBO																	
	02-Aug-14	1030	3			12		0		0				4	1	0	LAURA
	23-Aug-14	1100	3			12		1		0				5	0	0	LAURA
	30-Aug-14	1100	3			13		1		0				7	0	0	LAURA
	27-Sep-14	1100	3			9		1		0				5	0	0	LAURA
	13-Oct-14	1100	3			4		0		2				2	0	0	LAURA
	Sum Of ELAPTIME:					15	HIKER:	50	FLEASH:	3	ILEASH:	2	RP 1-4:	23	RP 5-8:	1	Of GRP 8+:
	Text64:					3	HIKER:	10									0
								Max Of 113									
N. BUBBLE																	
	31-Jul-14	1030	3			78		0		3				25	3	0	LAURA
	10-Aug-14	1100	3			47		0		3				15	0	0	LAURA
	19-Aug-14	1100	3			71		1		1				22	1	0	LAURA
	24-Aug-14	1100	3			110		1		3				26	6	0	LAURA
	31-Aug-14	1000	3			52		0		1				18	2	0	LAURA
	05-Sep-14	1100	3			28		3		0				16	0	0	LAURA
	28-Sep-14	1100	3			32		0		1				15	0	0	LAURA
	Sum Of ELAPTIME:					21	HIKER:	418	FLEASH:	5	ILEASH:	12	RP 1-4:	137	RP 5-8:	12	Of GRP 8+:
	Text64:					3	HIKER:	2857142857									
								Max Of 1110									
ST. SAUVEU																	
	11-Aug-14	1100	3			90		2		2				22	6	0	LAURA
	21-Aug-14	1100	3			63		1		2				23	2		LAURA
	26-Aug-14	1100	3			55		1		2				23	1	0	LAURA
	Sum Of ELAPTIME:					9	HIKER:	208	FLEASH:	4	ILEASH:	6	RP 1-4:	68	RP 5-8:	9	Of GRP 8+:
	Text64:					3	HIKER:	3333333333									0
								Max Of 190									
ELAPTIME Grand Total Sum:						57 al Sum:		816 tal Sum:		13 al Sum:		27 al Sum:		273 al Sum:		25 total Sum:	1

APPENDIX 4: VOLUNTEER SUMMIT COUNT DATA AND STATISTICAL ANALYSES: DIRECTION

LOCATION	DATE	ELAPTIME	APPRCHNORT		APPRCHSOUT		APPRCHEAST		APPRCHWEST		LEAVENORTH		LEAVESOUTH		LEAVEEAST		LEAVEWEST		TOTALHIKER	
C. NUBBLE																				
	01-Aug-14	3	21		44		0		0		46		19		0		0		65	
	20-Aug-14	3	8		14		0		0		9		13		0		0		22	
	25-Aug-14	3	4		16		0		0		19		1		0		0		20	
	12-Oct-14	3	10		23		0		0		19		14		0		0		33	
			Sum Of APPRCHNORT:	43	Sum Of APPRCHSOUT:	97	Sum Of APPRCHEAST:	0	Sum Of APPRCHWEST:	0	Sum Of LEAVENORTH:	93	Sum Of LEAVESOUTH:	47	Sum Of LEAVEEAST:	0	Sum Of LEAVEWEST:	0	Text66:	140
			Avg Of APPRCHNORT:	10.75	Avg Of APPRCHSOUT:	24.25	Avg Of APPRCHEAST:	0	Avg Of APPRCHWEST:	0	Avg Of LEAVENORTH:	23.25	Avg Of LEAVESOUTH:	11.75	Avg Of LEAVEEAST:	0	Avg Of LEAVEWEST:	0	Text67:	35
KEBO																				
	02-Aug-14	3	11		1		0		0		2		10		0		0		12	
	23-Aug-14	3	6		6		0		0		6		6		0		0		12	
	30-Aug-14	3	9		4		0		0		4		9		0		0		13	
	27-Sep-14	3	4		5		0		0		7		2		0		0		9	
	13-Oct-14	3	3		1		0		0		3		1		0		0		4	
			Sum Of APPRCHNORT:	33	Sum Of APPRCHSOUT:	17	Sum Of APPRCHEAST:	0	Sum Of APPRCHWEST:	0	Sum Of LEAVENORTH:	22	Sum Of LEAVESOUTH:	28	Sum Of LEAVEEAST:	0	Sum Of LEAVEWEST:	0	Text66:	50
			Avg Of APPRCHNORT:	6.6	Avg Of APPRCHSOUT:	3.4	Avg Of APPRCHEAST:	0	Avg Of APPRCHWEST:	0	Avg Of LEAVENORTH:	4.4	Avg Of LEAVESOUTH:	5.6	Avg Of LEAVEEAST:	0	Avg Of LEAVEWEST:	0	Text67:	10
N. BUBBLE																				
	31-Jul-14	3	13		65		0		0		28		50		0		0		78	
	10-Aug-14	3	10		37		0		0		13		34		0		0		47	
	19-Aug-14	3	8		63		0		0		21		50		0		0		71	
	24-Aug-14	3	9		101		0		0		20		90		0		0		110	
	31-Aug-14	3	6		46		0		0		16		36		0		0		52	
	05-Sep-14	3	7		21		0		0		11		17		0		0		28	
	28-Sep-14	3	6		26		0		0		7		25		0		0		32	
			Sum Of APPRCHNORT:	59	Sum Of APPRCHSOUT:	359	Sum Of APPRCHEAST:	0	Sum Of APPRCHWEST:	0	Sum Of LEAVENORTH:	116	Sum Of LEAVESOUTH:	302	Sum Of LEAVEEAST:	0	Sum Of LEAVEWEST:	0	Text66:	418
			Avg Of APPRCHNORT:	42857142857143	Avg Of APPRCHSOUT:	2857143	Avg Of APPRCHEAST:	0	Avg Of APPRCHWEST:	0	Avg Of LEAVENORTH:	5714286	Avg Of LEAVESOUTH:	428571	Avg Of LEAVEEAST:	0	Avg Of LEAVEWEST:	0	Text67:	59.71
ST. SAUVEU																				
	11-Aug-14	3	41		49		0		0		58		32		0		0		90	
	21-Aug-14	3	36		27		0		0		33		30		0		0		63	
	26-Aug-14	3	26		29		0		0		29		26		0		0		55	
			Sum Of APPRCHNORT:	103	Sum Of APPRCHSOUT:	105	Sum Of APPRCHEAST:	0	Sum Of APPRCHWEST:	0	Sum Of LEAVENORTH:	120	Sum Of LEAVESOUTH:	88	Sum Of LEAVEEAST:	0	Sum Of LEAVEWEST:	0	Text66:	208
			Avg Of APPRCHNORT:	.333333333333333	Avg Of APPRCHSOUT:	35	Avg Of APPRCHEAST:	0	Avg Of APPRCHWEST:	0	Avg Of LEAVENORTH:	40	Avg Of LEAVESOUTH:	.333333	Avg Of LEAVEEAST:	0	Avg Of LEAVEWEST:	0	Text67:	69.33

APPENDIX 4: VOLUNTEER SUMMIT COUNT DATA AND STATISTICAL ANALYSES: HOURLY

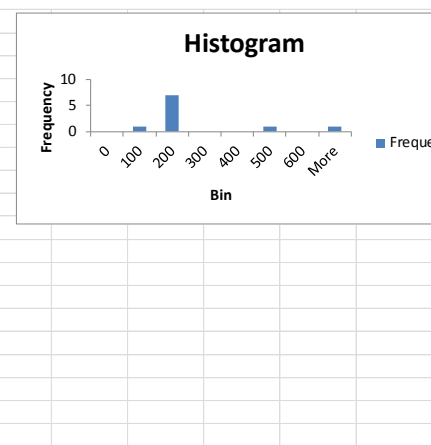
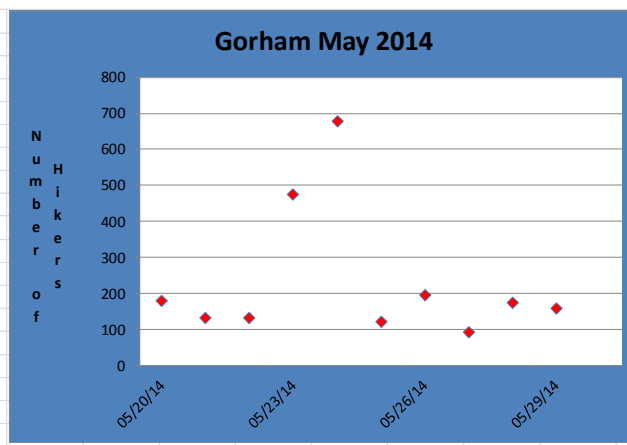
LOCATION	DATE	HOUR10		HOUR11		HOUR12		HOUR13		TOTALHIKER					
C. NUBBLE															
	01-Aug-14			33		10		22		65					
	20-Aug-14			9		12		1		22					
	25-Aug-14			14		1		5		20					
	12-Oct-14			12		11		10		33					
				Sum Of HOUR11:	68	Sum Of HOUR12:	34	Sum Of HOUR13:	38	Sum Of TOTALHIKER:	140				
				Avg Of HOUR11:	17	Avg Of HOUR12:	8.5	Avg Of HOUR13:	9.5	Avg Of TOTALHIKER:	35				
				Min Of HOUR11:	9	Min Of HOUR12:	1	Min Of HOUR13:	1	Min Of TOTALHIKER:	20				
				Max Of HOUR11:	33	Max Of HOUR12:	12	Max Of HOUR13:	22	Max Of TOTALHIKER:	65				
KEBO															
	02-Aug-14	2		7		3				12					
	23-Aug-14			4		2		6		12					
	30-Aug-14			2		3		8		13					
	27-Sep-14			2		4		3		9					
	13-Oct-14			2		1		1		4					
		Sum Of HOUR10:	2	Sum Of HOUR11:	17	Sum Of HOUR12:	13	Sum Of HOUR13:	18	Sum Of TOTALHIKER:	50				
		Avg Of HOUR10:	2	Avg Of HOUR11:	3.4	Avg Of HOUR12:	2.6	Avg Of HOUR13:	4.5	Avg Of TOTALHIKER:	10				
		Min Of HOUR10:	2	Min Of HOUR11:	2	Min Of HOUR12:	1	Min Of HOUR13:	1	Min Of TOTALHIKER:	4				
		Max Of HOUR10:	2	Max Of HOUR11:	7	Max Of HOUR12:	4	Max Of HOUR13:	8	Max Of TOTALHIKER:	13				
N. BUBBLE															
	31-Jul-14	27		37		14				78					
	10-Aug-14			8		18		21		47					
	19-Aug-14			22		26		23		71					
	24-Aug-14			42		31		37		110					
	31-Aug-14	15		10		27				52					
	05-Sep-14			15		5		8		28					
	28-Sep-14			10		11		11		32					
		Sum Of HOUR10:	42	Sum Of HOUR11:	144	Sum Of HOUR12:	132	Sum Of HOUR13:	100	Sum Of TOTALHIKER:	418				
		Avg Of HOUR10:	21	Avg Of HOUR11:	20.57	Avg Of HOUR12:	18.86	Avg Of HOUR13:	20	Avg Of TOTALHIKER:	59.71				
		Min Of HOUR10:	15	Min Of HOUR11:	8	Min Of HOUR12:	5	Min Of HOUR13:	8	Min Of TOTALHIKER:	28				
		Max Of HOUR10:	27	Max Of HOUR11:	42	Max Of HOUR12:	31	Max Of HOUR13:	37	Max Of TOTALHIKER:	110				
ST. SAUVEU															
	11-Aug-14			18		43		29		90					
	21-Aug-14			25		18		20		63					
	26-Aug-14			9		13		33		55					
				Sum Of HOUR11:	52	Sum Of HOUR12:	74	Sum Of HOUR13:	82	Sum Of TOTALHIKER:	208				
				Avg Of HOUR11:	17.33	Avg Of HOUR12:	24.67	Avg Of HOUR13:	27.33	Avg Of TOTALHIKER:	69.33				
				Min Of HOUR11:	9	Min Of HOUR12:	13	Min Of HOUR13:	20	Min Of TOTALHIKER:	55				
				Max Of HOUR11:	25	Max Of HOUR12:	43	Max Of HOUR13:	33	Max Of TOTALHIKER:	90				
HOUR10 Grand Total Sum:			44	Grand Total Sum:		281	Grand Total Sum:		253	Grand Total Sum:		238	TOTALHIKER Grand Total Sum:		816

APPENDIX 5: MONTHLY TRAIL COUNTER DATA AND STATISTICAL ANALYSES

Gorham Mountain: May 2014

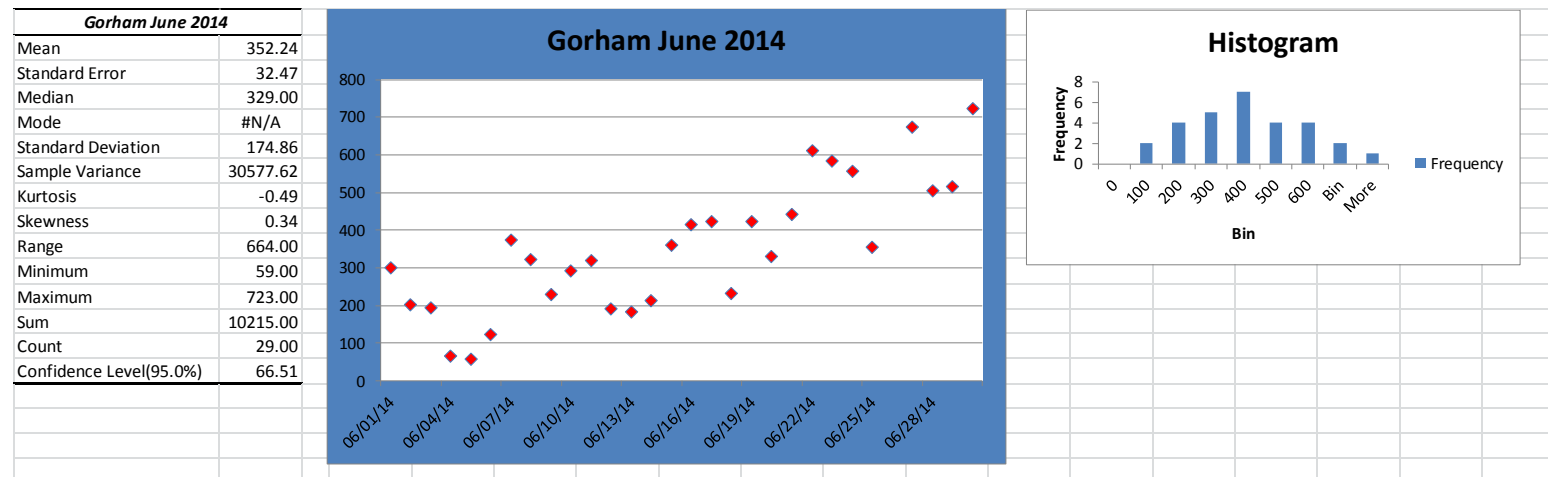
Date	DW	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	Total	Notes	Removed
05/01/14																			
05/02/14																			
05/03/14																			
05/04/14																			
05/05/14																			
05/06/14																			
05/07/14																			
05/08/14																			
05/09/14																			
05/10/14																			
05/11/14																			
05/12/14																			
05/13/14																			
05/14/14																			
05/15/14																			
05/16/14																			
05/17/14																			
05/18/14																			
05/19/14																			
05/20/14	T											0	0	0	0	D24		rain 3p-5p, 10p-12m	
05/21/14	W	2	0	6	20	15	38	9	21	19	39	6	4	0	0	0	179	rain 11a-1p	
05/22/14	T	10	1	33	16	14	17	11	6	2	4	14	0	0	0	4	132		
05/23/14	F	0	0	13	8	20	30	19	19	9	6	1	6	0	0	0	131		
05/24/14	S	1	3	13	38	51	73	75	33	45	49	20	0	0	0	0	476		
05/25/14	S	3	3	14	48	95	88	108	64	120	67	48	9	11	0	0	678		
05/26/14	M	0	0	2	12	16	11	19	24	16	10	5	5	1	0	0	121	rain 4a-6a, 8a-9a	
05/27/14	T	0	0	10	14	25	38	39	30	12	14	5	5	3	0	0	195		
05/28/14	W	0	0	0	2	26	9	13	16	14	4	2	2	5	0	0	93	rain 12m-1a, 4a-5a	
05/29/14	T	0	2	6	16	22	28	43	30	10	1	13	0	3	0	0	174		
05/30/14	F	0	2	9	15	22	22	21	10	16	25	5	9	2	0	0	158		
05/31/14	S	11	D177	1	0	0	0	0	0	0	0	0	0	0	0	0			15
Total		27	11	107	189	306	354	357	295	251	215	148	60	25	0	4	2337		

Gorham May 2014	
Mean	233.70
Standard Error	59.93
Median	166.00
Mode	#N/A
Standard Deviation	189.53
Sample Variance	35920.46
Kurtosis	2.98
Skewness	1.93
Range	585.00
Minimum	93.00
Maximum	678.00
Sum	2337.00
Count	10.00
Confidence Level(95.0%)	85.51



Gorham Mountain: June 2014

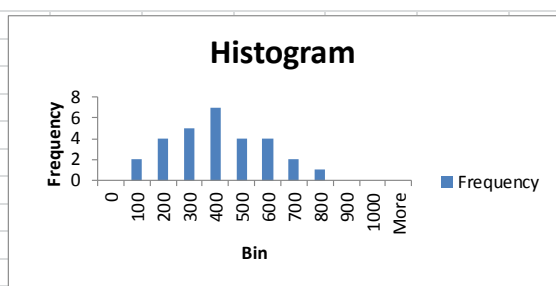
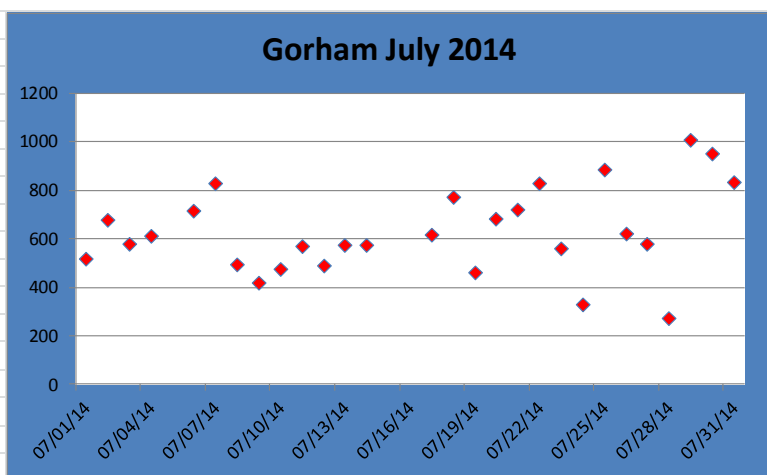
Date	DW	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	Total			
06/01/14	S	0	0	0	66	43	50	26	34	44	18	14	6	0	0	0	301			
06/02/14	M	0	0	8	20	18	15	35	30	2	13	42	8	11	0	0	202			
06/03/14	T	0	7	1	13	33	32	36	27	24	4	4	10	1	1	0	193			
06/04/14	W	0	3	3	1	17	7	20	2	1	1	9	0	2	0	0	66	rain 5p-9p		
06/05/14	T	10	0	4	9	3	4	10	5	3	5	5	1	0	0	0	59	rain 10a-10p		
06/06/14	F	0	4	8	17	23	18	12	12	9	6	5	9	0	0	0	123	rain 12m-4a, 5a-7a, 9a-11a, 1p-2p		
06/07/14	S	0	3	14	29	65	67	65	38	37	20	22	10	5	0	0	375			
06/08/14	S	13	4	8	28	48	56	49	23	33	36	20	2	3	0	0	323			
06/09/14	M	0	6	18	45	34	39	40	26	17	4	0	0	0	0	0	229			
06/10/14	T	9	4	21	51	58	21	59	41	11	4	7	0	4	1	0	291			
06/11/14	W	1	14	9	47	31	40	49	35	39	15	25	10	3	0	0	318			
06/12/14	T	0	0	6	40	25	23	44	13	21	7	6	5	0	0	0	190	rain 9p-10p		
06/13/14	F	2	4	10	23	34	40	20	19	7	20	4	1	0	0	0	184	rain 2p-12m		
06/14/14	S	0	2	34	13	25	22	53	21	12	13	5	6	4	0	2	212	rain 12m-2a, 3a-4a		
06/15/14	S	4	10	9	29	69	68	63	53	35	10	8	3	0	0	0	361			
06/16/14	M	2	7	26	84	56	58	33	84	23	11	20	4	5	2	0	415			
06/17/14	T	0	2	13	76	92	78	51	22	32	23	19	9	7	0	0	424			
06/18/14	W	0	0	7	1	17	41	33	53	28	30	9	8	6	0	0	233	rain 3a-8a		
06/19/14	T	0	6	25	43	70	76	46	41	40	29	31	9	7	0	0	423			
06/20/14	F	0	6	23	37	53	38	68	27	38	17	3	10	8	1	0	329			
06/21/14	S	2	10	15	40	75	78	77	56	45	29	11	3	0	0	0	441			
06/22/14	S	6	10	25	66	74	75	107	89	63	63	16	11	4	2	0	611			
06/23/14	M	0	18	32	63	91	72	93	65	65	46	14	8	6	10	0	583			
06/24/14	T	2	7	60	57	97	67	76	68	44	37	33	6	2	0	0	556			
06/25/14	W	3	2	14	53	63	95	37	40	17	13	17	2	0	0	0	356	rain 5a-7a, 11a-12n, 5p-6p, 7p-8p, 10p-11p		
06/26/14	T	D180	D257	0	0	15	4	1	20	17	9	9	3	0	2	0		rain 3a-12n, 2p-4p	15	
06/27/14	F	0	11	42	93	147	88	62	50	76	58	27	9	4	7	0	674			
06/28/14	S	0	12	34	72	117	53	63	33	37	37	21	18	2	6	0	505			
06/29/14	S	3	6	40	73	98	81	98	52	39	12	7	6	0	0	0	515			
06/30/14	M	6	11	39	114	105	175	69	67	74	50	6	4	3	0	0	723			
Total		63	169	548	1303	1696	1581	1495	1146	933	640	419	181	87	32	2	10215			



Gorham Mountain: July 2014

Date	DW	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	Total		
07/01/14	T	8	14	9	79	61	80	82	70	39	22	20	17	8	6	0	515		
07/02/14	W	1	18	47	57	125	99	89	99	53	43	15	18	12	0	0	676		
07/03/14	T	5	0	36	64	74	95	73	66	55	56	37	14	1	0	0	576		
07/04/14	F	0	10	53	72	108	80	79	80	34	24	24	16	0	32	0	612	rain 1a-2a, 5p-6p, 7p-9p,10p-12m	
07/05/14	S	3	D240	D498	D937	D1043	D1285	D710	21	36	42	23	33	22	0	0		rain 12m-12n	15
07/06/14	S	2	20	32	72	108	128	86	87	52	71	29	21	4	2	0	714		
07/07/14	M	2	6	30	125	126	120	87	131	85	45	54	8	8	0	0	827	rain 6p-7p	
07/08/14	T	8	18	15	67	135	75	73	30	24	23	15	6	2	1	0	492		
07/09/14	W	0	0	12	58	63	74	44	37	32	59	28	3	6	0	2	418		
07/10/14	T	2	10	20	43	70	77	58	75	52	42	14	7	2	0	0	472		
07/11/14	F	1	13	46	96	89	90	58	53	50	40	16	11	0	2	0	565		
07/12/14	S	0	14	23	69	98	72	76	33	44	29	21	4	4	0	0	487		
07/13/14	S	5	23	68	65	111	76	78	70	46	12	12	2	1	2	0	571		
07/14/14	M	2	4	41	48	66	94	82	109	51	35	12	21	5	0	0	570		
07/15/14	T	0	0	5	5	D147	1	0	80	13	D178	19	17	34	35	0		rain 6a-2p, 7p-8p	15
07/16/14	W	0	0	0	0	0	0	0	0	0	0	0	0	0	D170	D32		rain 5a-4p, 6p-10p, 11p-12m	15
07/17/14	T	0	0	0	73	79	79	121	82	75	53	18	19	12	5	0	616	rain 12m-1a	
07/18/14	F	13	15	47	85	143	131	103	114	44	45	13	7	10	0	0	770		
07/19/14	S	4	18	9	88	66	58	63	39	39	44	15	13	2	2	0	460		
07/20/14	S	6	16	44	68	92	89	65	115	95	54	32	4	2	0	0	682		
07/21/14	M	2	7	88	66	147	108	106	59	45	43	26	18	5	0	0	720		
07/22/14	T	5	15	41	107	142	153	129	97	66	17	33	13	9	0	0	827		
07/23/14	W	2	17	40	60	89	94	96	62	51	26	12	5	5	0	0	559	rain 8p-9p, 10p-12m	
07/24/14	T	3	3	9	13	23	13	28	56	78	42	42	14	2	0	0	326	rain 3a-4a, 6a-8a, 9a-2p	
07/25/14	F	7	4	39	78	180	140	146	108	76	67	17	14	8	0	0	884		
07/26/14	S	1	10	27	81	80	78	86	89	87	42	15	17	4	1	0	618		
07/27/14	S	5	10	33	74	94	130	97	65	43	16	0	6	2	0	0	575	rain 2p-5p	
07/28/14	M	0	D83	19	34	48	50	49	24	15	8	4	2	0	13	5	271	rain 2p-3p, 6p-7p	1
07/29/14	T	D21	D36	29	110	124	161	199	122	122	64	40	23	11	0	0	1005		2
07/30/14	W	5	11	53	108	133	185	145	130	90	40	36	5	10	0	0	951		
07/31/14	T	3	24	43	103	139	141	137	84	70	39	28	16	6	0	0	833		
Total		95	300	958	2068	2813	2771	2535	2287	1662	1143	670	374	197	101	7	17592		

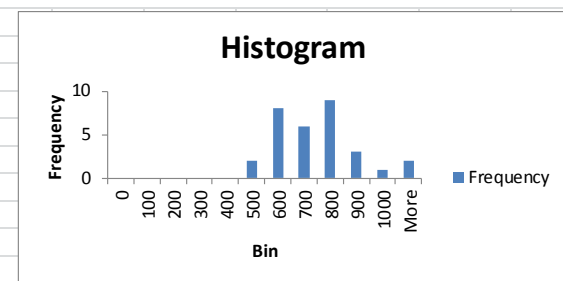
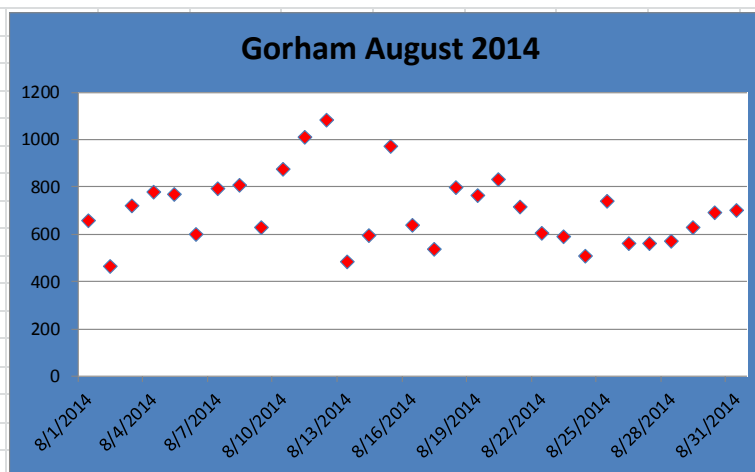
Gorham July 2014	
Mean	628.29
Standard Error	33.77
Median	594.00
Mode	827.00
Standard Deviation	178.71
Sample Variance	31936.21
Kurtosis	-0.20
Skewness	0.23
Range	734.00
Minimum	271.00
Maximum	1005.00
Sum	17592.00
Count	28.00
Confidence Level(95.0%)	69.30



Gorham Mountain: August 2014

Date	DW	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	Total		
8/1/2014	F	4	3	48	69	121	108	90	90	53	34	26	9	0	0	0	655		
8/2/2014	S	5	8	10	41	51	60	87	55	55	42	31	11	2	0	7	465		
8/3/2014	S	0	10	30	96	93	122	116	75	69	63	41	6	0	0	0	721		
8/4/2014	M	3	14	51	86	144	107	121	67	92	52	23	12	4	0	0	776		
8/5/2014	T	2	29	69	100	111	86	89	102	80	55	19	21	3	0	0	766		
8/6/2014	W	0	18	32	63	89	99	105	79	43	46	16	3	2	2	0	597	rain 2p-6p	
8/7/2014	T	1	18	80	93	148	129	138	75	72	14	1	18	5	0	0	792	rain 2p-4p	
8/8/2014	F	3	16	66	93	115	143	98	161	62	20	19	11	0	0	0	807		
8/9/2014	S	1	8	39	82	123	123	62	74	36	34	16	14	8	7	0	627	rain 9p-10p	
8/10/2014	S	6	13	23	85	167	148	143	94	63	57	51	15	6	4	0	875		
8/11/2014	M	4	11	71	118	146	148	143	124	123	53	49	22	0	0	0	1012		
8/12/2014	T	7	18	66	111	177	168	193	163	74	57	26	20	2	0	0	1082		
8/13/2014	W	3	14	26	94	79	73	79	43	52	4	2	7	9	0	0	485	rain 9p-12m	
8/14/2014	T	0	2	0	101	26	36	44	93	102	82	71	20	13	2	0	592	rain 12m-9a	
8/15/2014	F	0	18	55	151	173	168	146	104	53	61	16	17	8	0	0	970		
8/16/2014	S	D42	10	19	82	110	85	89	58	64	55	46	19	0	0	0	637		1
8/17/2014	S	0	3	10	68	53	75	107	59	81	42	23	14	0	0	0	535	rain 5a-6a	
8/18/2014	M	3	10	34	65	96	143	90	111	127	64	35	7	12	0	0	797	rain 3p-4p	
8/19/2014	T	7	5	48	130	127	146	119	82	39	34	18	10	0	0	0	765		
8/20/2014	W	2	22	77	125	136	105	72	114	88	29	37	20	4	0	0	831		
8/21/2014	T	8	14	50	74	123	123	117	86	37	22	37	16	6	0	0	713		
8/22/2014	F	4	14	43	91	89	67	70	54	57	57	30	20	7	0	0	603		
8/23/2014	S	0	10	40	74	82	74	84	60	63	42	52	9	0	0	0	590		
8/24/2014	S	21	11	32	38	94	77	62	56	49	40	17	11	0	0	0	508		
8/25/2014	M	6	4	50	89	139	126	100	56	101	49	15	2	0	0	0	737		
8/26/2014	T	2	14	24	90	74	105	76	52	47	37	25	11	2	0	0	559		
8/27/2014	W	1	10	44	81	96	83	68	57	48	34	26	12	0	0	0	560		
8/28/2014	T	1	8	57	26	81	113	64	74	66	50	22	3	5	0	0	570	rain 1a-3a	
8/29/2014	F	4	4	25	68	96	89	126	68	70	38	34	4	3	0	0	629		
8/30/2014	S	21	12	27	70	71	98	76	81	81	90	56	5	2	0	0	690		
8/31/2014	S	2	17	39	85	139	91	100	69	71	31	35	20	2	0	0	701	rain 8p-12m	
Total		121	368	1285	2639	3369	3318	3074	2536	2118	1388	915	389	105	15	7	21647		

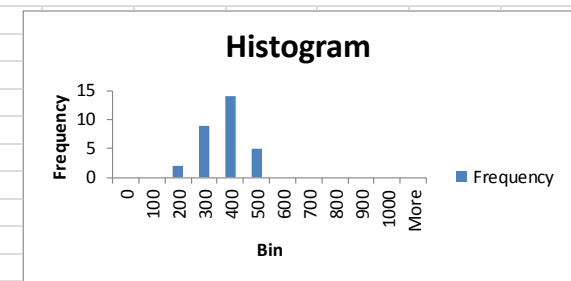
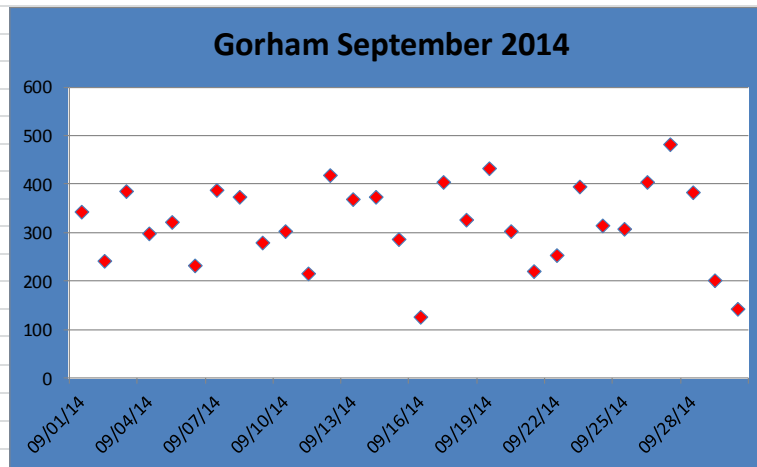
Gorham August 2014	
Mean	698.29
Standard Error	27.27
Median	690.00
Mode	#N/A
Standard Deviation	151.84
Sample Variance	23056.28
Kurtosis	0.28
Skewness	0.74
Range	617.00
Minimum	465.00
Maximum	1082.00
Sum	21647.00
Count	31.00
Confidence Level(95.0%)	55.70



Gorham Mountain: September 2014

Date	DW	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	Total		
09/01/14	M	30	3	19	46	55	43	38	55	30	7	10	8	0	0	0	344	rain 12m-2a	
09/02/14	T	12	4	6	33	29	33	29	48	20	12	16	0	0	0	0	242		
09/03/14	W	9	10	17	68	71	58	57	41	19	18	10	10	0	0	0	388		
09/04/14	T	0	6	24	39	47	55	44	20	21	23	8	9	4	0	0	300		
09/05/14	F	8	16	21	57	60	34	18	45	23	26	14	2	0	0	0	324		
09/06/14	S	5	7	20	43	50	23	37	19	5	5	9	11	0	0	0	234	rain 6p-10p	
09/07/14	S	4	13	23	36	56	71	49	51	41	34	10	0	2	0	0	390		
09/08/14	M	0	6	33	65	68	80	55	31	18	8	5	6	0	0	0	375		
09/09/14	T	2	6	10	40	33	59	32	48	36	4	4	6	0	0	0	280		
09/10/14	W	1	13	17	43	46	56	33	47	33	7	9	0	0	0	0	305		
09/11/14	T	0	8	5	38	41	31	41	29	8	12	3	0	0	D14	0	216	rain 1p-2p, 3p-5p	1
09/12/14	F	2	8	17	52	69	66	57	59	46	29	5	9	0	0	0	419		
09/13/14	S	1	7	19	48	67	49	78	44	33	13	10	2	0	0	0	371	rain 7p-9	
09/14/14	S	0	9	33	27	48	52	52	60	64	20	10	0	0	0	0	375	rain 12m-1a	
09/15/14	M	2	2	15	56	44	49	32	29	30	18	6	4	0	0	0	287		
09/16/14	T	0	0	2	15	19	10	24	17	16	11	13	0	0	0	0	127	rain 9a-12n	
09/17/14	W	4	9	14	53	82	55	52	55	36	33	11	2	0	0	0	406		
09/18/14	T	11	22	24	45	42	45	32	50	33	7	8	8	2	0	0	329		
09/19/14	F	0	9	13	53	67	68	70	77	40	30	6	0	0	0	0	433		
09/20/14	S	15	7	13	34	45	67	38	38	28	12	7	0	0	0	0	304		
09/21/14	S	10	0	17	26	27	38	43	23	18	9	2	7	0	0	1	221	rain 8a-9a, 9p-11p	
09/22/14	M	D104	4	14	34	30	35	62	47	18	10	0	0	0	0	0	254		1
09/23/14	T	1	0	10	46	42	35	56	106	34	58	5	4	0	0	0	397		
09/24/14	W	3	7	6	53	64	46	40	48	28	15	6	0	0	0	0	316		
09/25/14	T	0	D92	25	38	57	52	23	42	32	30	6	3	0	0	0	308		1
09/26/14	F	D68	14	37	79	82	55	51	24	14	28	18	3	0	0	0	405		1
09/27/14	S	0	7	16	63	67	83	74	58	39	30	37	8	2	0	0	484		
09/28/14	S	6	10	30	50	52	68	57	22	37	29	14	10	0	0	0	385		
09/29/14	M	5	7	11	27	20	67	13	21	16	13	2	0	0	0	0	202	rain 6p-7p, 8p-10p, 11p-12m	
09/30/14	T	0	0	2	13	22	42	36	16	10	1	2	0	0	0	0	144	rain 1a-2a, 6a-7a	
Total		131	214	513	1320	1502	1525	1323	1270	826	552	266	112	10	0	1	9565		

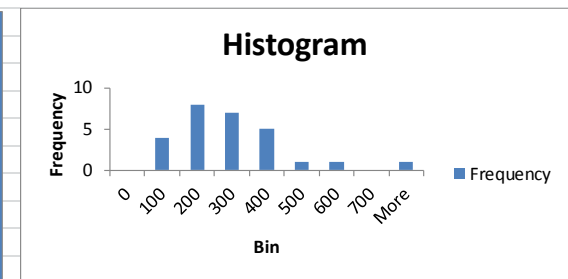
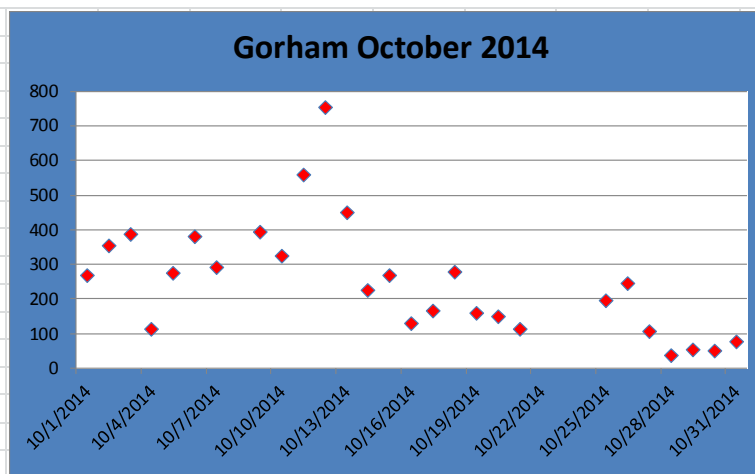
Gorham September 2014	
Mean	318.83
Standard Error	15.81
Median	320.00
Mode	375.00
Standard Deviation	86.58
Sample Variance	7495.87
Kurtosis	-0.28
Skewness	-0.41
Range	357.00
Minimum	127.00
Maximum	484.00
Sum	9565.00
Count	30.00
Confidence Level(95.0%)	32.33



Gorham Mountain: October 2014

Date	DW	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	Total		
10/1/2014	W	0	10	14	35	35	44	33	56	15	25	2	0	0	0	0	269		
10/2/2014	T	0	3	22	37	66	70	36	32	34	24	22	8	0	0	0	354		
10/3/2014	F	0	2	31	41	44	49	66	57	50	32	10	3	0	0	0	385		
10/4/2014	S	9	4	6	17	14	15	25	13	4	0	4	0	0	0	0	111	rain 11a-12n, 1p-4p, 7p-12m	
10/5/2014	S	0	0	0	32	32	32	39	22	66	33	11	6	0	0	0	273	rain 12m-2a, 4a-9a	
10/6/2014	M	D23	14	23	43	68	64	60	55	23	19	11	0	0	0	0	380		1
10/7/2014	T	0	12	24	27	38	45	50	35	32	23	4	0	0	0	0	290		
10/8/2014	W	0	4	5	0	0	0	0	0	38	18	7	0	0	0	2		rain 8a-11a	15
10/9/2014	T	4	14	22	57	49	82	51	35	36	29	11	3	0	0	0	393		
10/10/2014	F	2	2	20	40	50	55	50	28	23	41	12	0	0	0	0	323		
10/11/2014	S	4	12	24	49	45	86	59	89	48	80	39	23	0	0	0	558		
10/12/2014	S	3	13	32	69	120	142	122	129	74	29	13	8	0	0	0	754		
10/13/2014	M	D24	13	19	61	72	84	82	51	42	18	5	2	0	0	0	449		1
10/14/2014	T	0	6	6	30	29	53	22	25	26	16	11	2	0	0	0	226		
10/15/2014	W	4	1	13	34	51	33	39	19	34	25	16	0	0	0	0	269		
10/16/2014	T	0	0	7	18	12	24	17	12	17	16	7	0	0	0	0	130	rain 7p-12m	
10/17/2014	F	0	0	27	33	13	19	18	22	13	13	6	2	0	0	0	166	rain 12m-9a	
10/18/2014	S	0	20	5	28	52	26	35	49	30	24	8	0	0	0	0	277	rain 7p-9p	
10/19/2014	S	1	0	7	39	38	25	15	12	18	5	0	0	0	0	0	160		
10/20/2014	M	1	0	16	15	20	19	28	28	9	12	2	0	0	0	0	150		
10/21/2014	T	1	6	10	25	28	19	11	5	4	3	0	0	0	0	0	112	rain 2p-12m	
10/22/2014	W	0	0	0	5	4	8	2	2	17	14	0	0	0	0	0		rain 12m-2a, 4a-8a, 10a-2p, 3p-6p	15
10/23/2014	T	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		rain 1a-2p, 3p-11p	15
10/24/2014	F	0	0	0	5	15	8	4	2	0	8	6	0	0	0	0		rain 3a-7a, 11a-1p, 7p-9p	15
10/25/2014	S	0	0	4	12	25	28	45	39	29	10	3	0	0	0	0	195		
10/26/2014	S	0	24	3	51	76	32	23	18	17	2	0	0	0	0	0	246		
10/27/2014	M	0	2	5	13	32	13	17	9	7	3	4	0	0	0	0	105		
10/28/2014	T	1	3	4	4	14	2	5	2	2	0	0	0	0	0	0	37		
10/29/2014	W	0	0	4	0	2	2	24	20	1	0	0	0	0	0	0	53	rain 9p-12m	
10/30/2014	T	0	0	4	1	3	8	10	14	6	5	0	0	0	0	0	51		
10/31/2014	F	2	2	5	7	6	15	28	11	0	0	0	0	0	0	0	76		
Total		32	167	362	828	1053	1104	1016	891	715	527	214	57	0	0	2	6792		
Grand Totals		406	1060	3225	7044	9043	9072	8305	7279	5572	3825	2213	992	337	116	21	57933		145

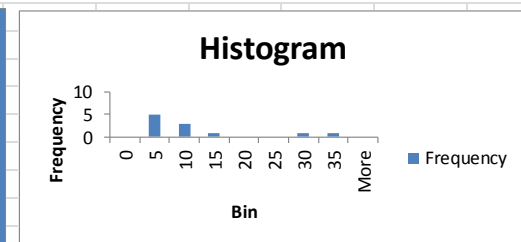
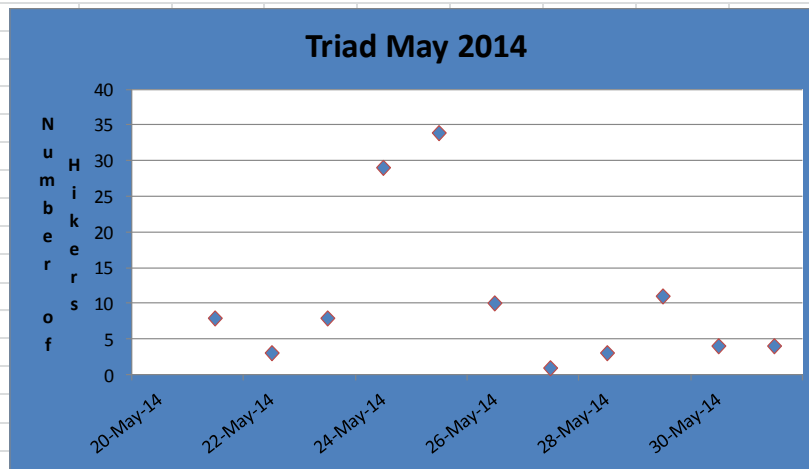
Gorham October 2014	
Mean	251.56
Standard Error	32.03
Median	246.00
Mode	269.00
Standard Deviation	166.45
Sample Variance	27705.10
Kurtosis	1.87
Skewness	1.15
Range	717.00
Minimum	37.00
Maximum	754.00
Sum	6792.00
Count	27.00
Confidence Level(95.0%)	65.84



Triad: May 2014

Date	DW	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	Total	Notes	Removed
1-May-14																			
2-May-14																			
3-May-14																			
4-May-14																			
5-May-14																			
6-May-14																			
7-May-14																			
8-May-14																			
9-May-14																			
10-May-14																			
11-May-14																			
12-May-14																			
13-May-14																			
14-May-14																			
15-May-14																			
16-May-14																			
17-May-14																			
18-May-14																			
19-May-14																			
20-May-14	T												0	0	0	2		rain 3p-5p, 10p-12m	
21-May-14	W	0	0	0	0	0	1	0	0	2	0	5	0	0	0	0	8	rain 11a-1p	
22-May-14	T	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	3		
23-May-14	F	0	0	0	0	0	0	1	0	1	0	5	1	0	0	0	8		
24-May-14	S	0	1	0	12	8	2	2	2	0	2	0	0	0	0	0	29		
25-May-14	S	0	0	0	0	0	0	9	6	6	0	5	8	0	0	0	34		
26-May-14	M	0	3	0	0	4	0	2	0	0	0	1	0	0	0	0	10	rain 4a-6a, 8a-9a	
27-May-14	T	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1		
28-May-14	W	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	rain 12m-1a, 4a-5a	
29-May-14	T	0	0	0	0	0	0	0	0	1	0	1	4	3	2	0	11		
30-May-14	F	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4		
31-May-14	S	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4		
Total		0	6	0	13	12	3	19	8	13	6	17	13	3	2	2	115		

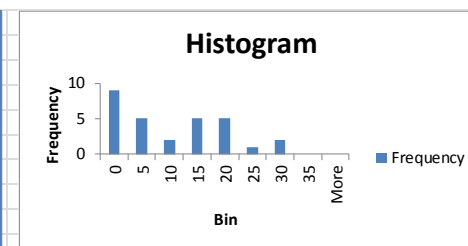
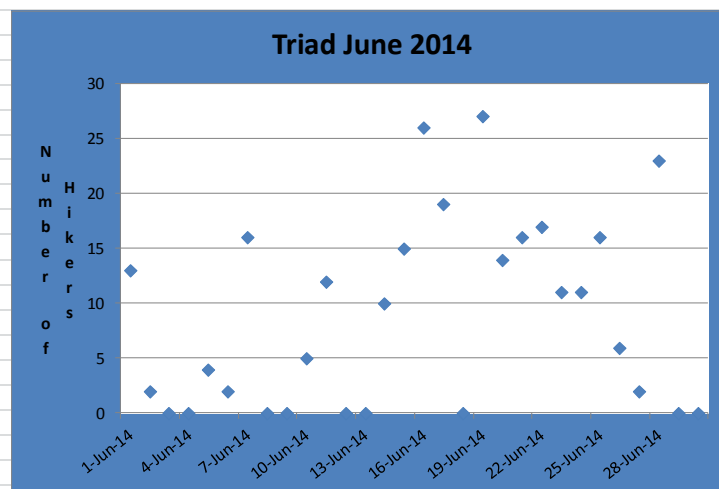
Triad May 2014	
Mean	10.45
Standard Error	3.30
Median	8.00
Mode	8.00
Standard Deviation	10.93
Sample Variance	119.47
Kurtosis	1.53
Skewness	1.61
Range	33.00
Minimum	1.00
Maximum	34.00
Sum	115.00
Count	11.00
Confidence Level(95.0%)	7.34



Triad: June 2014

Date	DW	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	Total		
1-Jun-14	S	0	0	0	7	2	0	0	1	0	3	0	0	0	0	0	13		
2-Jun-14	M	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2		
3-Jun-14	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4-Jun-14	W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	rain 5p-9p	
5-Jun-14	T	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	rain 10a-10p	
6-Jun-14	F	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	2	rain 12m-4a, 5a-7a, 9a-11a, 1p-2p	
7-Jun-14	S	0	0	1	0	0	8	0	2	3	2	0	0	0	0	0	16		
8-Jun-14	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9-Jun-14	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10-Jun-14	T	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0	5		
11-Jun-14	W	0	0	1	1	0	3	0	3	0	0	4	0	0	0	0	12		
12-Jun-14	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	rain 9p-10p	
13-Jun-14	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	rain 2p-12m	
14-Jun-14	S	0	0	0	0	0	D68	7	1	0	0	2	0	0	0	0	10	rain 12m-2a, 3a-4a	1
15-Jun-14	S	0	0	0	0	0	6	2	0	7	0	0	0	0	0	0	15		
16-Jun-14	M	0	0	0	2	8	11	0	0	0	0	0	5	0	0	0	26		
17-Jun-14	T	0	2	0	6	0	2	0	1	0	0	8	0	0	0	0	19		
18-Jun-14	W	0	0	0	0	0	0	D34	0	0	0	0	0	0	0	0	0	rain 3a-8a	1
19-Jun-14	T	0	0	0	5	0	4	11	4	3	0	0	0	0	0	0	27		
20-Jun-14	F	0	0	0	0	2	4	2	6	0	0	0	0	0	0	0	14		
21-Jun-14	S	0	3	0	0	2	2	5	0	0	4	0	0	0	0	0	16		
22-Jun-14	S	0	0	0	0	5	1	9	2	0	0	0	0	0	0	0	17		
23-Jun-14	M	0	0	0	3	0	2	0	6	0	0	0	0	0	0	0	11		
24-Jun-14	T	0	0	0	0	2	0	0	0	5	0	2	2	0	0	0	11		
25-Jun-14	W	0	0	0	5	4	3	0	0	0	2	2	0	0	0	0	16	rain 5a-7a, 11a-12n, 5p-6p, 7p-8p, 10p-11p	
26-Jun-14	T	0	0	0	0	0	D29	0	2	2	0	2	0	0	0	0	6	rain 3a-12n, 2p-4p	1
27-Jun-14	F	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2		
28-Jun-14	S	0	3	2	2	5	7	0	1	0	3	0	0	0	0	0	23		
29-Jun-14	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
30-Jun-14	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total		0	12	4	34	30	53	39	29	20	16	20	7	2	1	0	267		

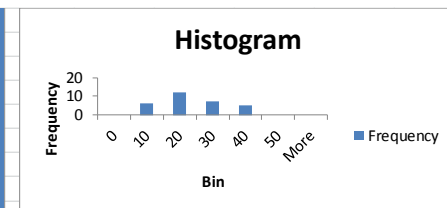
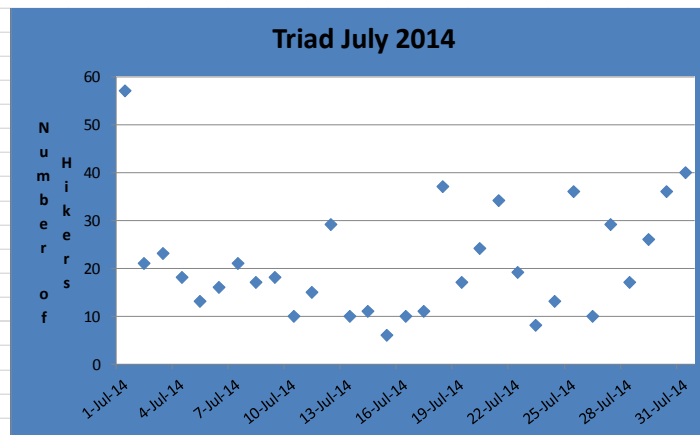
Triad June 2014	
Mean	8.90
Standard Error	1.57
Median	8.00
Mode	0.00
Standard Deviation	8.59
Sample Variance	73.82
Kurtosis	-0.84
Skewness	0.54
Range	27.00
Minimum	0.00
Maximum	27.00
Sum	267.00
Count	30.00
Confidence Level(95.0%)	3.21



Triad: July 2014

Date	DW	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	Total		
1-Jul-14	T	0	0	0	28	4	0	11	9	0	1	2	0	2	0	0	57		
2-Jul-14	W	0	0	0	0	0	0	0	7	5	2	0	7	0	0	0	21		
3-Jul-14	T	0	0	3	0	4	7	2	5	2	0	0	0	0	0	0	23		
4-Jul-14	F	0	0	0	0	6	0	4	8	0	0	0	0	0	0	0	18	rain 1a-2a, 5p-6p, 7p-9p,10p-12m	
5-Jul-14	S	0	0	0	0	0	0	0	0	0	7	2	0	4	0	0	13	rain 12m-12n	
6-Jul-14	S	0	0	0	0	5	5	4	2	0	0	0	0	0	0	0	16		
7-Jul-14	M	0	1	0	12	5	3	0	0	0	0	0	0	0	0	0	21	rain 6p-7p	
8-Jul-14	T	0	0	0	0	2	3	10	0	2	0	0	0	0	0	0	17		
9-Jul-14	W	0	0	0	0	2	11	1	2	2	0	0	0	0	0	0	18		
10-Jul-14	T	0	0	2	0	0	6	2	0	0	0	0	0	0	0	0	10		
11-Jul-14	F	0	0	0	2	3	6	0	2	0	2	0	0	0	0	0	15		
12-Jul-14	S	0	0	0	0	5	4	5	2	4	5	4	0	0	0	0	29		
13-Jul-14	S	0	1	0	0	0	0	0	2	6	0	1	0	0	0	0	10		
14-Jul-14	M	0	0	0	0	1	4	0	0	0	5	0	0	1	0	0	11		
15-Jul-14	T	0	2	0	1	3	0	0	0	0	0	0	0	0	0	0	6	rain 6a-2p, 7p-8p	
16-Jul-14	W	0	1	4	0	1	0	0	0	0	0	0	4	0	0	0	10	rain 5a-4p, 6p-10p, 11p-12m	
17-Jul-14	T	0	0	0	0	0	1	3	0	0	0	0	7	0	0	0	11	rain 12m-1a	
18-Jul-14	F	0	0	0	6	13	4	3	1	6	0	0	4	0	0	0	37		
19-Jul-14	S	0	0	5	0	11	0	0	1	0	0	0	0	0	0	0	17		
20-Jul-14	S	0	0	0	5	5	2	2	0	8	2	0	0	0	0	0	24		
21-Jul-14	M	0	0	3	6	0	3	8	7	5	0	0	2	0	0	0	34		
22-Jul-14	T	0	0	0	0	0	11	4	0	2	1	0	1	0	0	0	19		
23-Jul-14	W	0	0	0	0	4	0	4	0	0	0	0	0	0	0	0	8	rain 8p-9p, 10p-12m	
24-Jul-14	T	0	0	0	0	0	0	0	4	1	1	2	4	1	0	0	13	rain 3a-4a, 6a-8a, 9a-2p	
25-Jul-14	F	0	0	0	0	13	10	3	5	3	2	0	0	0	0	0	36		
26-Jul-14	S	0	0	0	0	2	6	0	0	0	2	0	0	0	0	0	10		
27-Jul-14	S	0	0	1	0	4	4	10	3	6	1	0	0	0	0	0	29	rain 2p-5p	
28-Jul-14	M	0	0	8	4	0	0	5	0	0	0	0	0	0	0	0	17	rain 2p-3p, 6p-7p	
29-Jul-14	T	0	0	1	D50	0	7	6	5	0	4	3	0	0	0	0	26		1
30-Jul-14	W	2	0	0	0	8	3	5	6	0	2	6	4	0	0	0	36		
31-Jul-14	T	0	0	1	0	2	5	3	8	7	13	0	1	0	0	0	40		
Total		2	5	28	64	103	105	95	79	59	50	20	34	8	0	0	652		

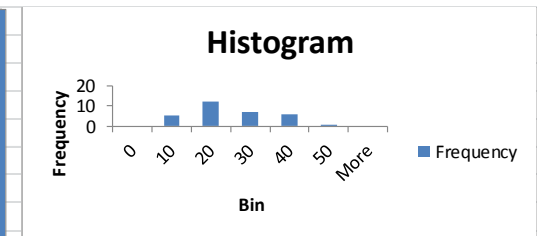
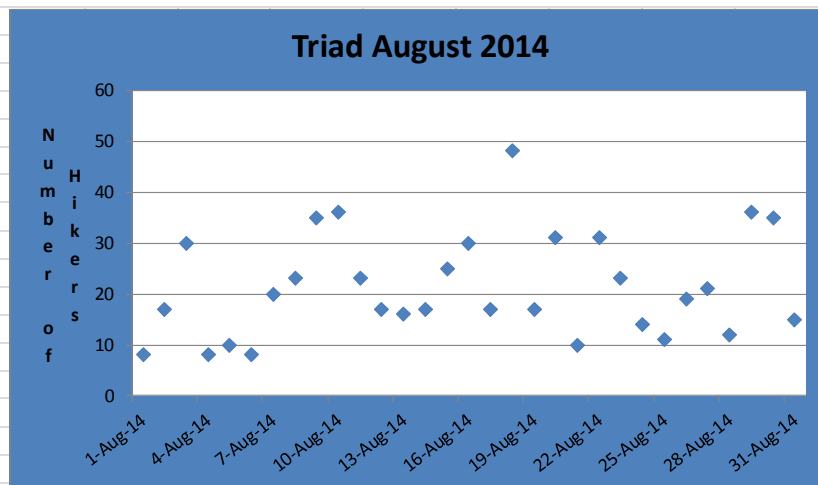
Triad July 2014	
Mean	21.03
Standard Error	2.08
Median	18.00
Mode	10.00
Standard Deviation	11.60
Sample Variance	134.50
Kurtosis	1.57
Skewness	1.21
Range	51.00
Minimum	6.00
Maximum	57.00
Sum	652.00
Count	31.00
Confidence Level(95.0%)	4.25



Triad: August 2014

Date	DW	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	Total			
1-Aug-14	F	0	0	0	0	0	0	0	2	0	1	1	0	0	0	4	8			
2-Aug-14	S	0	1	3	0	5	0	0	6	0	0	0	0	2	0	0	17			
3-Aug-14	S	0	0	0	4	0	5	5	0	2	7	7	0	0	0	0	30			
4-Aug-14	M	0	0	0	0	0	0	5	0	1	2	0	0	0	0	0	8			
5-Aug-14	T	0	0	3	3	0	2	0	0	2	0	0	0	0	0	0	10			
6-Aug-14	W	0	0	0	2	0	0	0	0	3	0	0	0	3	0	0	8	rain 2p-6p		
7-Aug-14	T	0	0	0	0	4	15	0	1	0	0	0	0	0	0	0	20	rain 2p-4p		
8-Aug-14	F	0	0	0	0	2	2	14	0	4	1	0	0	0	0	0	23			
9-Aug-14	S	0	0	2	0	3	6	4	8	8	2	2	0	0	0	0	35	rain 9p-10p		
10-Aug-14	S	0	0	0	4	16	9	2	0	5	0	0	0	0	0	0	36			
11-Aug-14	M	0	0	0	3	1	0	2	6	2	1	6	2	0	0	0	23			
12-Aug-14	T	0	0	0	0	0	0	3	10	0	4	0	0	0	0	0	17			
13-Aug-14	W	0	0	4	2	6	0	2	0	0	0	0	0	2	0	0	16	rain 9p-12m		
14-Aug-14	T	0	0	0	0	0	0	0	0	2	0	11	4	0	0	0	17	rain 12m-9a		
15-Aug-14	F	0	0	0	0	7	2	1	0	7	3	5	0	0	0	0	25			
16-Aug-14	S	0	0	3	6	0	3	4	8	4	1	1	0	0	0	0	30			
17-Aug-14	S	0	0	0	0	4	0	0	0	5	5	0	3	0	0	0	17	rain 5a-6a		
18-Aug-14	M	0	1	5	3	0	4	4	15	0	9	3	2	0	2	0	48	rain 3p-4p		
19-Aug-14	T	0	0	1	0	1	0	3	3	4	3	0	2	0	0	0	17			
20-Aug-14	W	0	0	3	0	4	0	0	2	13	4	5	0	0	0	0	31			
21-Aug-14	T	0	3	1	0	0	0	0	2	4	0	0	0	0	0	0	10			
22-Aug-14	F	0	0	3	2	0	10	3	4	3	0	6	0	0	0	0	31			
23-Aug-14	S	0	0	0	6	2	2	5	2	3	3	0	0	0	0	0	23			
24-Aug-14	S	1	3	5	0	0	3	2	0	0	0	0	0	0	0	0	14			
25-Aug-14	M	0	1	0	1	2	0	2	1	0	0	3	1	0	0	0	11			
26-Aug-14	T	0	0	4	4	D29	9	0	0	0	2	0	0	0	0	0	19		1	
27-Aug-14	W	0	0	1	0	5	8	0	3	2	2	0	0	0	0	0	21			
28-Aug-14	T	0	0	0	0	5	2	2	3	0	0	0	0	0	0	0	12	rain 1a-3a		
29-Aug-14	F	0	0	0	7	7	0	9	3	5	0	0	5	0	0	0	36			
30-Aug-14	S	0	0	7	0	3	13	6	0	2	4	0	0	0	0	0	35			
31-Aug-14	S	1	0	0	0	2	7	3	0	2	0	0	0	0	0	0	15	rain 8p-12m		
Total		2	9	45	47	79	102	81	79	83	54	50	19	7	2	4	663			

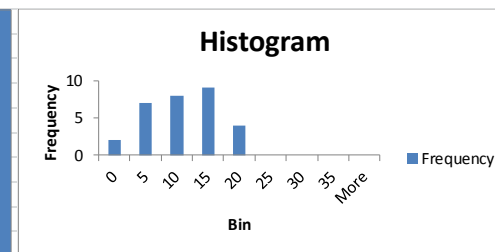
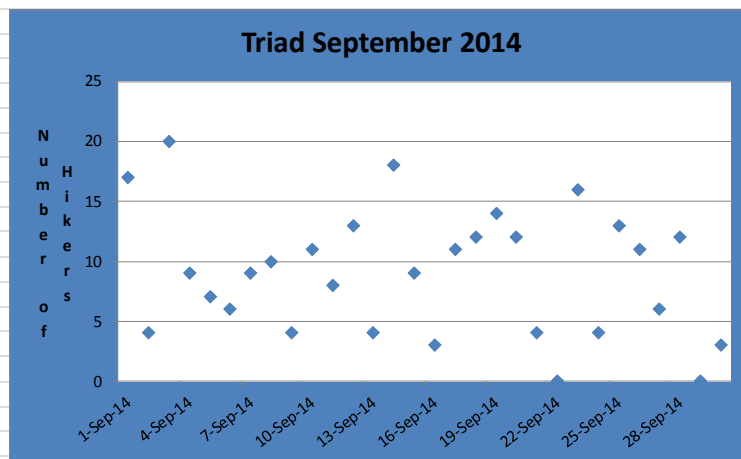
Triad August 2014	
Mean	21.39
Standard Error	1.82
Median	19.00
Mode	17.00
Standard Deviation	10.13
Sample Variance	102.71
Kurtosis	-0.06
Skewness	0.68
Range	40.00
Minimum	8.00
Maximum	48.00
Sum	663.00
Count	31.00
Confidence Level(95.0%)	3.72



Triad: September 2014

Date	DW	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	Total		
1-Sep-14	M	2	0	0	0	4	0	4	4	3	0	0	0	0	0	0	17	rain 12m-2a	
2-Sep-14	T	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	4		
3-Sep-14	W	0	0	0	2	0	3	8	4	0	0	3	0	0	0	0	20		
4-Sep-14	T	0	4	0	0	2	0	0	3	0	0	0	0	0	0	0	9		
5-Sep-14	F	0	0	0	0	0	5	2	0	0	0	0	0	0	0	0	7		
6-Sep-14	S	0	0	0	2	2	0	0	2	0	0	0	0	0	0	0	6	rain 6p-10p	
7-Sep-14	S	0	0	0	0	1	2	2	3	0	1	0	0	0	0	0	9		
8-Sep-14	M	0	0	4	0	2	0	0	2	2	0	0	0	0	0	0	10		
9-Sep-14	T	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	4		
10-Sep-14	W	0	0	0	0	2	3	2	0	3	1	0	0	0	0	0	11		
11-Sep-14	T	0	0	0	0	6	2	0	0	0	0	0	0	0	0	0	8	rain 1p-2p, 3p-5p	
12-Sep-14	F	0	0	1	1	0	6	5	0	0	0	0	0	0	0	0	13		
13-Sep-14	S	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4	rain 7p-9	
14-Sep-14	S	0	0	0	0	5	0	7	3	0	0	3	0	0	0	0	18	rain 12m-1a	
15-Sep-14	M	0	0	0	0	1	0	3	0	0	3	0	0	0	0	2	9		
16-Sep-14	T	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3	rain 9a-12n	
17-Sep-14	W	0	2	0	0	0	0	0	6	2	0	1	0	0	0	0	11		
18-Sep-14	T	2	0	0	2	0	0	3	2	0	3	0	0	0	0	0	12		
19-Sep-14	F	0	0	0	0	10	0	2	0	1	0	1	0	0	0	0	14		
20-Sep-14	S	0	0	0	0	7	1	1	3	0	0	0	0	0	0	0	12		
21-Sep-14	S	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0	4	rain 8a-9a, 9p-11p	
22-Sep-14	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
23-Sep-14	T	0	0	0	8	0	4	2	0	2	0	0	0	0	0	0	16		
24-Sep-14	W	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	4		
25-Sep-14	T	0	0	0	1	0	0	0	0	6	6	0	0	0	0	0	13		
26-Sep-14	F	0	0	0	0	0	3	8	0	0	0	0	0	0	0	0	11		
27-Sep-14	S	0	0	0	1	1	3	0	1	0	0	0	0	0	0	0	6		
28-Sep-14	S	0	0	0	5	0	0	0	3	3	1	0	0	0	0	0	12		
29-Sep-14	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	rain 6p-7p, 8p-10p, 11p-12m	
30-Sep-14	T	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	3	rain 1a-2a, 6a-7a	
Total		4	6	7	25	53	33	50	39	25	18	8	0	0	0	2	270		

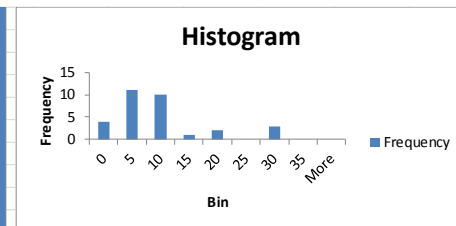
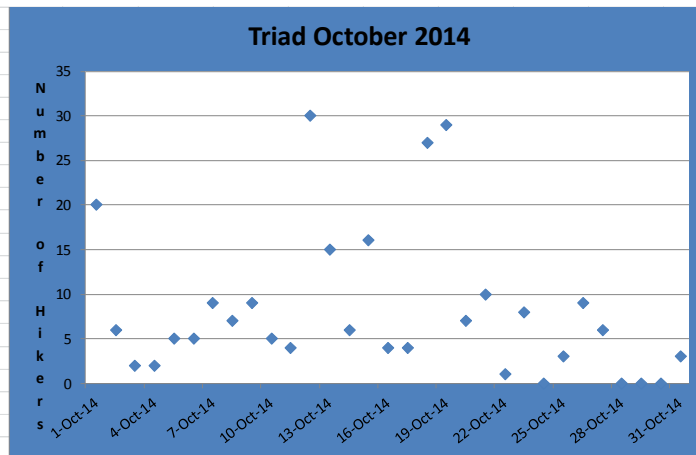
Triad September 2014	
Mean	9.00
Standard Error	0.96
Median	9.00
Mode	4.00
Standard Deviation	5.23
Sample Variance	27.38
Kurtosis	-0.61
Skewness	0.18
Range	20.00
Minimum	0.00
Maximum	20.00
Sum	270.00
Count	30.00
Confidence Level(95.0%)	1.95



Triad: October 2014

Date	DW	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	Total		
1-Oct-14	W	0	0	0	0	1	6	8	5	0	0	0	0	0	0	0	20		
2-Oct-14	T	0	0	1	0	0	0	2	0	3	0	0	0	0	0	0	6		
3-Oct-14	F	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2		
4-Oct-14	S	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	rain 11a-12n, 1p-4p, 7p-12m	
5-Oct-14	S	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5	rain 12m-2a, 4a-9a	
6-Oct-14	M	0	0	3	0	0	0	0	0	1	1	0	0	0	0	0	5		
7-Oct-14	T	0	0	0	2	0	0	0	0	2	2	3	0	0	0	0	9		
8-Oct-14	W	0	1	2	3	0	0	0	1	0	0	0	0	0	0	0	7	rain 8a-11a	
9-Oct-14	T	0	0	2	3	0	0	1	3	0	0	0	0	0	0	0	9		
10-Oct-14	F	1	0	0	0	0	0	0	0	0	4	0	0	0	0	0	5		
11-Oct-14	S	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4		
12-Oct-14	S	0	0	0	0	5	2	1	15	7	0	0	0	0	0	0	30		
13-Oct-14	M	0	0	0	0	7	6	0	0	0	2	0	0	0	0	0	15		
14-Oct-14	T	1	0	0	0	0	0	3	1	0	1	0	0	0	0	0	6		
15-Oct-14	W	0	0	0	0	4	0	0	2	7	3	0	0	0	0	0	16		
16-Oct-14	T	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	4	rain 7p-12m	
17-Oct-14	F	0	0	1	0	0	0	1	0	0	1	1	0	0	0	0	4	rain 12m-9a	
18-Oct-14	S	0	0	0	0	0	0	15	2	0	5	5	0	0	0	0	27	rain 7p-9p	
19-Oct-14	S	0	0	0	0	15	5	5	2	0	2	0	0	0	0	0	29		
20-Oct-14	M	0	0	0	6	1	0	0	0	0	0	0	0	0	0	0	7		
21-Oct-14	T	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0	10	rain 2p-12m	
22-Oct-14	W	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	rain 12m-2a, 4a-8a, 10a-2p, 3p-6p	
23-Oct-14	T	0	1	2	2	2	1	0	0	0	0	0	0	0	0	0	8	rain 1a-2p, 3p-11p	
24-Oct-14	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	rain 3a-7a, 11a-1p, 7p-9p	
25-Oct-14	S	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	3		
26-Oct-14	S	0	0	0	0	0	1	0	8	0	0	0	0	0	0	0	9		
27-Oct-14	M	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6		
28-Oct-14	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
29-Oct-14	W	0	0	0	0	D19	0	0	0	0	0	0	0	0	0	0	0	rain 9p-12m	1
30-Oct-14	T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
31-Oct-14	F	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3		
Total		2	3	13	17	43	28	42	48	26	21	9	0	0	0	0	252		6
Grand Total		10	41	97	200	320	324	326	282	226	165	124	73	20	5	8	2219		

Triad October 2014	
Mean	8.13
Standard Error	1.49
Median	6.00
Mode	0.00
Standard Deviation	8.30
Sample Variance	68.85
Kurtosis	1.80
Skewness	1.57
Range	30.00
Minimum	0.00
Maximum	30.00
Sum	252.00
Count	31.00
Confidence Level(95.0%)	3.04



Otter Cove: October 2014

Date	DW	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	Total	Notes	Removed
1-Oct-15	W	2	0	4	6	8	2	24	7	4	1	4	4	0	0	0	66		
2-Oct-15	T	0	1	1	6	11	9	0	0	8	11	5	4	0	0	0	56		
3-Oct-15	F	0	1	0	0	10	1	4	5	5	11	2	0	0	0	0	39		
4-Oct-15	S	0	13	0	26	4	2	5	14	0	7	0	4	0	0	0	75	rain 11a-12n, 1p-4p, 7p-12m	
5-Oct-15	S	0	0	0	0	D561	3	7	5	12	19	21	8	0	0	0	75	rain 12m-2a, 4a-5	1
6-Oct-15	M	0	1	0	4	0	15	14	8	22	10	1	6	0	0	0	81		
7-Oct-15	T	0	1	2	3	12	2	3	14	14	12	4	1	0	0	0	68		
8-Oct-15	W	3	2	7	0	0	0	0	1	0	10	3	2	0	0	0	28	rain 8a-11a	
9-Oct-15	T	1	1	0	4	2	5	2	11	7	7	5	2	0	0	0	47		
10-Oct-15	F	0	2	3	8	6	2	4	4	4	5	5	3	0	0	0	46		
11-Oct-15	S	2	0	1	8	21	0	5	6	16	4	24	3	3	0	0	93		
12-Oct-15	S	1	0	2	9	17	12	28	10	12	5	10	0	5	0	0	111		
13-Oct-15	M	0	2	0	0	2	25	22	18	16	2	9	0	0	0	0	96		
14-Oct-15	T	0	0	0	2	2	11	4	4	0	7	4	2	0	1	1	38		
15-Oct-15	W	1	0	0	3	7	17	7	10	12	5	1	1	0	0	0	64		
16-Oct-15	T	3	0	1	4	4	1	2	17	5	3	3	0	0	1	0	44	rain 7p-12m	
17-Oct-15	F	0	0	0	0	D221	0	11	2	3	1	4	4	0	0	0	25	rain 12m-9a	1
18-Oct-15	S	3	3	1	4	6	23	7	5	9	4	0	0	0	2	1	68	rain 7p-9p	
19-Oct-15	S	0	3	1	6	2	3	5	6	6	0	0	0	0	0	0	32		
20-Oct-15	M	0	0	0	0	3	0	6	1	4	2	5	0	0	0	0	21		
21-Oct-15	T	0	1	4	6	2	0	1	7	2	0	0	0	0	0	1	24	rain 2p-12m	
22-Oct-15	W	0	1	0	1	0	0	5	2	0	2	1	0	0	0	0	12	rain 12m-2a, 4a-8a, 10a-2p, 3p-6p	
23-Oct-15	T	1	0	2	2	3	1	0	0	3	1	1	0	0	0	0	14	rain 1a-2p, 3p-11p	
24-Oct-15	F	0	0	0	3	0	0	6	0	0	2	0	0	0	0	0	11	rain 3a-7a, 11a-1p, 7p-9p	
25-Oct-15	S	0	1	0	4	5	7	4	4	1	2	0	0	0	0	0	28		
26-Oct-15	S	0	0	0	0	3	10	2	5	3	4	0	0	0	0	0	27		
27-Oct-15	M	0	5	0	2	1	0	1	2	0	1	4	0	0	0	0	16		
28-Oct-15	T	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	4		
29-Oct-15	W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	rain 9p-12m	
30-Oct-15	T	0	0	0	0	2	1	2	4	0	1	2	1	0	0	1	14		
31-Oct-15	F	1	0	1	0	2	4	3	D296	3	0	0	0	0	0	0	14		1
Total		19	39	30	111	135	156	185	173	171	139	118	45	8	4	4	1337		3

