

This Operational Report is Dedicated to

James Page



Page Camp on the shore of Katahdin Lake

The leadership and vision of **Jim Page** resulted in the completion of a **Conservation Easement** for a 50 acre ownership on the shore of Katahdin Lake to be held in perpetuity by the **Baxter State Park Authority**. The easement ensures that the property will forever retain its pristine and natural character as an important element of the Katahdin Lake landscape.

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A. DIRECTOR'S SUMMARY

Opening Day 2013

It can seem strange to be thinking about summer camping in the Park in January, but for many Park visitors, both thinking about and acting on securing a reservation for their favorite cabin, tent site or lean-to in the Park is a January ritual. This year, the ritual was held on Tuesday, January 15.

For at least the past quarter century, the Park has started taking reservations for summer camping in January. Until the early years of this century, the reservation office opened for summer camping on the first business day of the year and there were no restrictions on available dates or sites. During the 1990's, the number of



Waiting for the HQ doors to open - 6:30 am on Opening Day (photo by J. Bissell)

campers steadily increased until they exceeded the fire code limits for Park Headquarters. We moved the accommodation of opening day visitors to locations off-campus. The Park reservation system was still based on paper and pencil and since most opening day visitors were seeking a reservation in July or August and there was only one reservation book for each month, the reservation process was very slow. We spent all day at it and by the end of the day both visitors and staff were frustrated and tired. Administratively, we were concerned that the reservation process was providing an unfair advantage to

those folks who could afford to take a day or two off from work and hang out at Park Headquarters to make a reservation.

About 10 years ago, Park staff began to work closely with the Baxter Park Advisory Committee to brainstorm solutions. We began starting a multi-year process to computerize our reservation system. Our reservation software is unique to the Park and was written primarily by Park volunteer Michael White. Besides being a gifted programmer, Mike is also a descendant of Park donor Percival Baxter. In addition to updating our system, we also developed changes to the reservation process. We instituted the rolling reservation system, limiting the processing of a reservation to dates within four months of the first day of the reservation. This process spreads the activity of reservations out over the winter and spring months. By June 16, all the remaining reservation dates are within four months of the close of camping season on October 15, so reservations are limited only by site availability. We also ensured fairness to Park campers by placing an opening day limit of no more than 20% of the sites in any

campground on any day. With this limitation in place, about 97-98% of the Park's site capacity remains available for reservation after we have completed our opening day reservations and moved to the rolling reservation system.

These actions significantly reduced the number of people that chose to participate in the Opening Day process, improving the experience for all involved. While the numbers are smaller, Opening Day still retains an aura of competition - after all, the first person in line gets the best choice of dates and sites. Traditionally, those most intent on securing their desired reservations have arrived early - often days early, to secure that spot at the front of the line. For the past 5 years, there have always been at least 5 tents in the yard at Park HQ on the night before Opening Day. This year was no different. The earliest camper to arrive in 2013 was Sam Heyward of Bowdoinham. Sam has been an



7:15 am - Park HQ conference room - waiting to make a reservation (photo by J. Hoekwater)

Opening Day regular for many years. When we opened the HQ Conference room doors at 7:00 am Sam was first in line, along with 44 other people behind him. When we finished reservations at the end of the day, Park staff had made reservations for 92 people. The great majority of our Opening Day visitors were from Maine (79 people) along with 13 committed souls from outside our State.

Now we have moved to the rolling reservation system. This year, we have expanding on-line and phone reservations as options within the rolling reservation system, and over

the next four months, a significant portion of the Park's tent sites, lean-tos, cabins and bunkhouse bunks will be rented by campers planning on a visit to the Park. To me, Opening Day has become a sign of spring in the deepest part of the winter - a reminder that summer is coming and it's not too soon to prepare!

Park Committees

The **Baxter State Park Advisory** and **Investment Committees** were both very busy in 2013. These committees continue to provide critical insight and advice on Park policy, management and the management of the Park endowment funds.

The Baxter State Park Research Committee and the Scientific Forest Management Committee also provide valuable assistance. These committees work closely with the Park Naturalist and Resource Manager, respectively, and more information on their activities can be found in their sections of this report.

The Park Advisory Committee was chaired by Rick Bray of Brunswick. The committee met regularly during the winter months and with the assistance of Committee Vice-Chair Spencer Meyer, we utilized the University of Maine polycom system to meet monthly with committee members attending various polycom sites across the state and viewing and hearing other members through large screen video connections. In May, the Authority approved the nominations of Stephen Hutnak, Tom Bradbury, and Rosemary Hastings to the Baxter State Park Advisory Committee. The Authority also thanked Advisory Chair Carla Ritchie for her years of service on the Advisory

The Investment Committee continued it's very capable and skilled work in managing the Park endowment portfolio under the guidance of committee chair Brian Noyes. In May, the Authority approved the nomination of Edward Creedon to the Investment Committee. The principal endowment at Bank of New York – Mellon continued to be managed by Michael Janko. At the close of the year in 2013, the market value of Park endowments was almost equal to the high point achieved in 2007 prior to the "great recession".

Friends of Baxter State Park

The Friends of Baxter State Park continued its support of the Park and our mission. After a successful membership campaign and strategy to grow the organization, Friends President Barbara Bentley stepped down. Barbara will continue her leadership role with the Maine Youth Wilderness Program in the Park as well as other pursuits. Her tireless work ethic and steady leadership was invaluable to the Friends during these formative years. Moving ahead, Friends developed an Executive Director position and after a competitive process, selected Aaron Megquire to fill the post. Charlie Jacobi also stepped forward for another term as President.

During 2013, Friends continued to provide support to the Park by supporting MCC crews in trail work in the Park, particularly on the OJI Trail relocation project. Friends also continued support of the BSP Flora Project led by Glen Mittelhauser. Friends member Laurie Rich also continued her knowledgeable role as Friends Volunteer Coordinator – working with Park Ranger Bruce White to match volunteers with scheduled projects in the Park. The Friends of Baxter State Park also continued to sponsor the Maine Youth Wilderness Leadership Program and the joint effort with the Park of the Baxter State Park Calendar.

Black Brook Culvert

After a long and educational period of preparation, we issued the first contract for the replacement of a large culvert/crossing structure in the Park. The target of our project was an old and somewhat innocuous 6-7' culvert (actually a section of 6' culvert inserted into a section of 7' culvert) just northeast of the North Branch Camps providing passage under the Park Tote Road for Black Brook.

We engaged Calderwood Engineering of Augusta to provide engineering design and put the project out to bid. The bid of \$86,925 was accepted from BMB Construction LLC of Hampden, Maine, owned by Shawn McDougall. The construction process included the removal of the old culvert and the installation of a "bottomless" pipe arch. The new culvert consists of a top arch of bolt-assembled corrugated plates resting on a concrete footing set on bedrock below the streambed. The culvert allows water flow on a natural stream bed without restriction to fish passage. Construction began in late August to coincide with low water flows. Unfortunately, the weather turned rainy almost immediately with the start of construction and struggles to implement and maintain water control extended the planned 5-6 day construction time to 21 days.

The project was completed in mid-September. This project marked the first large scale construction culvert replacement project in the Park in recent years. The engineering, bidding and construction process were helpful and informative to Park maintenance and administrative staff and will help us form a more effective model for future projects as the Park continues to address the replacement of large crossing structures in the Park road system.



National Park Proposal

An eastern neighbor to the Park, Elliotsville Plantation Inc. (EPI), announced plans to donate their holdings in the area to the Federal government as a National Park and National Recreation Area. The process and procedure to accomplish this is complex and lengthy and generally requires the support of the state's Congressional legislative group (at this time, Senators Collins and King, and House Representatives Michaud and Pingree). At the time of this report, only Pingree has openly supported the creation of a National Park. Locally, the proposal is controversial.

EPI lands east of the Park are currently open to public use for non-motorized activities and hunting and trapping are prohibited. EPI recently established a 16 mile "loop road" and has encouraged public use of the road. The loop road features some short and primitive hiking trail access and a viewpoint providing a very nice view of Katahdin and lands to the south and southwest. To examine the potential and possible impacts of a change of land use to a National Park, the Baxter State Park Advisory toured EPI lands in the fall of 2013 and discussed the proposal at an Advisory meeting.

Center Mountain Lean-to

Baxter Park has about 35 backcountry sites that require some time on the trail to reach. About half of these sites are lean-tos. In the past 10 years we have been working on reviewing these lean-to sites and relocating sites to better locations, replacing degraded structures and replacing smaller stick-built lean-tos with a now standard cedar log lean-to. With regular maintenance a cedar log lean-to should last at least 50 years.

While all our backcountry sites are remote, some are *really* remote. Relocating or replacing these lean-tos can be a real challenge requiring skill, dedication and hard work on several levels. Recently, we relocated the Center Mountain Lean-to to a new site on Center Pond. Center Pond is located on the Wassataquoik Lake Trail and is a 4.8 mile hike from Nesowadnehunk Field. The new lean-to is now open for reservations and serves as a good example of the process and effort that goes into a backcountry lean-to relocation and construction project.

Step 1: Review and Reconnaissance

About 20 years ago, we constructed a small stick-built lean-to along a small upper branch of Trout Brook on the newly relocated Wassataquoik Lake Trail about 1 mile north of Center Pond.

With Center Mountain as the most prominent local landmark, the site was named the Center Mountain Lean-to. The lean-to was intended to provide a spot for backcountry hikers to camp enroute to other backcountry campsites at Little Wassataquiok Lake, Wassataquiok Lake Island and Russell Pond Backcountry Campground. In many ways, backcountry sites are like any real estate - the three most important factors to consider are *location, location, location*. For a number of reasons, primarily related to location, the Center Mountain Lean-to received minimal to no use.

In 2011, I hiked by the Center Mountain Lean-to on my way out to Nesowadnehunk from Wassataquoik Lake. I had a good look at the lean-to. I had been considering relocating this lean-to for some time and after that hike we placed the idea on the table for consideration by the administrative team and ranger staff. After discussion, the decision was made to consider relocating the lean-to to Center Pond. Center Pond is a beautiful remote pond located on the Wassataquoik Lake Trail about 5 miles from the trailhead at Nesowadnehunk Field and 9 miles from Russell Pond Campground. Center Pond has a healthy population of eastern brook trout. The Park maintained a rental canoe at Center Pond, but due to the nearly 5 mile distance from a road and no authorized campsite allowing for an overnight stay, few visitors were willing to venture into Center Pond for a day trip. Relocating the lean-to at Center Pond would likely increase the use at this very pretty, very remote pond with a good population of eastern brook trout.

One other important reason also surfaced supporting a lean-to at Center Pond during the development of the Park's Management Plan completed in 2012. The Management Plan pointed out a lack of loop opportunities for backcountry hikers. Unless a car can be spotted, most backcountry hikes in the Park require an in and out path on a single trail. Two additional trail projects were suggested in the plan that would significantly address this issue. One of the projects involved the construction of 4 miles of new trail from the Wassataquoik Lake Trail at Center Pond to the Northwest Basin Trail following a route around the south side of Mullen Mountain and into the Annis Brook drainage to the Northwest Basin Trail. This single trail segment would allow the opportunity for a 3 to 6 day backcountry trip in the Park with only the 5 miles from Center Pond to Nesowadnehunk Field requiring repetition.

Based on these reasons in support of relocation, I hiked into Center Pond in the fall of 2012 with Park Rangers Isaac Needell and Mike Martin and Backcountry Ranger Greg Hamer. Greg is one of the Park's senior Backcountry Rangers. Greg and his fellow Russell Pond Backcountry Ranger Brendan Curran, are the Park's most experienced and skilled rangers in the construction of cedar log lean-tos. After a thorough examination of the area around Center Pond, we settled unanimously on a single site on the north side of the pond several hundred feet from the Wassataquoik Lake Trail.

We hiked out that day happy that we had decided on what we knew would be a great spot for a backcountry lean-to that would be enjoyed by many campers in the years to come. We brought our proposal out and placed it on the table for more review, including a consideration of the impact on the brook trout fishery of Center Pond based on the higher expected use with a local lean-to providing the opportunity for overnight camping. After another round of consideration, we decided to move ahead with the relocation.



Rangers Needell, Martin and Hamer at Center Pond (photo by J. Bissell)

So, in late October of 2012 the Center Pond lean-to consisted of some orange flagging hung on some trees near the pond. This is when the hard work was about to begin.

Step 2: Staging Materials, Planning

Many aspects of the maintenance of Baxter Park involve northern white cedar. Cedar is a very long-lived and ubiquitous component of the Acadian spruce-fir forest. If you have hiked in the Park, you have seen lots of cedar. We use cedar for sign posts, day use shelters, picnic tables, bog bridging, lean-tos, bridge decking and cribbing for hiking trail bridge abutments. The wood is light, easily worked and very resistant to decay. Because cedar is preferred for so many uses, we have been shunting cedar from the

normal harvesting operations of the Park's Scientific Forest Management Area (SFMA) for many years for use in Park maintenance. Leaving the SFMA as logs, the cedar is milled locally and returns to the Park mostly as 6', 8' or 12' long sticks with two sides slabbed off so the piece is either 4" or 6" thick. Cedar log lean-tos in the Park start with about 40 pieces of 12' cedar slab to 6" thickness. Materials also include dimensional lumber for the floor and roof, some smaller round spruce logs for purlins, shingles and a few lengths of drip edge. We also will need 4 to 8 round cement pads to set the lean-to on, spikes and nails for assembly. We also need a fire ring and recently, we've been throwing in a bear canister to leave in the lean-to for use by campers. Lastly, all the tools and equipment necessary for clearing the space for the lean-to and any necessary access trail and for assembling the lean-to are placed in a secure and waterproof container.

Every lean-to we construct in the backcountry comes with a companion building - an outhouse. Backcountry outhouses are constructed at the carpentry shop at Park HQ in accordance with a specific and proven design. The completed outhouse is deassembled and packed for transport as a kit.

The placement of an outhouse requires appropriate siting and approval by a soil scientist. The Park has been fortunate to have the dedicated volunteer assistance of Roger St. Armand. Roger has sited many backcountry



Volunteer Roger St. Armand (Photo by S. Guay)

privies in the Park and his expertise is greatly appreciated.

Once acquired, all of the materials are then transported to the the roadside location closest to the backcountry site. In the case of the Center Pond Lean-to, the materials were staged at Nesowadnehunk Field. This work typically takes place in the short window between the end of the Park camping season on October 15 and first significant snowfall. The materials are piled carefully on supports to keep everything off the ground. The stack is then covered and we wait for winter to arrive.

Step 3: Transporting Materials to the Site

Some Park lean-to materials have been transported by the Maine Army National Guard helicopters as part of training exercises implemented by the Guard. While this has been an effective way to transport a lean-to into the backcountry, it is a rare event. Most backcountry lean-tos were constructed from materials that found their way to the site by

one method - transport by snowmobile in the dead of winter through the hard work of experienced Rangers.



Army Air National Guard Blackhawk transporting Park bog bridging

To make this work as easy as possible, we spend time reviewing various GIS data, park maps, satellite photos etc., to determine the best route to transport the lean-to materials, including many cedar logs 12' in length from the roadside location. Our current 4 stroke long-track/wide-track work snowmobiles are over 10' long from tip of ski to back of track. With an eight foot tote sled on a 4' tongue carrying 12' logs, the whole affair is well over 20' long. That's a lot of length to snake through the Maine woods. Hiking trails are often unsuitable

due to numerous sharp corners and narrow widths. In the winter transport of long materials we look for old logging roads, bogs and swamps (frozen and covered with snow they are great thoroughfares in winter).

As winter settled in and snow depths rose to more than 2', we began to work on establishing a route. After a significant amount of exploration on foot and some trial and error with snowmobiles, the Rangers settled on a route that followed an old fire road running between Center and Strickland Mountains to the South Branch of Trout Brook. From Trout Brook, the Rangers utilized old logging roads from the 1960's and bogs and natural openings to clear a workable path to Center Pond. Rangers cleared vegetation just enough to provide safe passage for the sleds and tote sleds and to set a track. Most of this hard work took place in January with daytime temperatures often remaining below zero. The rule in winter transport of materials in the Maine woods is you go as soon as there is enough snow. Maine winters are unpredictable. Cold weather and several feet of snow may be followed by days of rain and a two week thaw. As soon as we had conditions, the Rangers went to work. The beauty of the landscape was often effective in offsetting the cold and hard work at hand.

All the materials are piled along the edge of the trail as close to the site as possible. Each piece will have to be handled at least once again as it is carried to the site and put in place in the lean-to.

Eventually, the hauling was completed and there is time for a photo or two. Park volunteers such as Rick Bray often pitch in to help Rangers with the project. Rick continued to pitch in later with the lean-to construction phase.

Stage 4: Construction



Lean-to stock piled near the site (Photo by J. Bissell)



Rangers Stewart Guay and Bruce White with BSP Volunteer Rick Bray at Center Pond (photo by J. Bissell



Hauling lean-to stock into Center Pond (photo by J. Bissell)

Once the materials are in place in the backcountry, we are ready for the final step of developing the site, any necessary site access trail, and constructing the lean-to and outhouse. We typically try and schedule this work for early in May so we can use our Ranger talent in the construction effort before their campgrounds open for the summer season. Ideally, this is during a few days of nice weather right before the flies come out. We are usually OK on the flies, but the weather, sometimes not so much.

For the Center Pond lean-to, the construction phase did occur early in the season, but the outhouse assembly, trail access work and canoe rack were completed later in July, delaying the opening of the lean-to until August. The lean-to was constructed by a typical combination of Rangers and Park Volunteers. For the Center Pond project this list included Greg Hamer, Stewart Guay, Bob Baribeau, Chip Jahnke, Craig Kennedy, Mike Martin, Bruce White, and Rick Bray.



BSP Volunteer Rick Bray at the Center Pond Lean-to (photo by B. White)



Installed bog bridging to access the Center Pond Lean-to (photo by M. Martin)



Canoe at Center Pond Lean-to (photo by B. White)

So, there is an overview of what is involved in the replacement of a backcountry lean-to in Baxter State Park. The process usually takes about a year and involves a lot of people. In return, the lean-to should last for 50 to 100 years and provide shelter from storms and countless memories to hundreds and perhaps thousands of wilderness travelers in the years to come.

Wassataquoik Area Site Review

In 2013, Park staff reviewed the current site facilities, resource concerns and hiker use patterns of backcountry campsites on Wassataquoik and Little Wassataquoik Lake. The review resulted in a number of changes to these sites including a new lean-to on Wassataquoik Lake.



Wassataquoik Lake

(photo by J. Bissell)

Background

The Wassataquoik Lake and Little

Wassataquoik Lakes area have provided remote backcountry camping opportunities for Park visitors for many decades. Wassataquiok Lake (178 ac.) is one of the most beautiful and pristine water bodies in the Park and one of the few Park waters supporting a natural population of blueback trout or arctic char (Salvelinus alpines). Little Wassataquoik Lake (10 ac.) is a small high mountain pond perched at the height of land north of Wassataguoik Lake. The Park provides two sites in the area, a canoeaccess only lean-to on Wassataquoik Lake Island and a lean-to on Little Wassataquoik Lake.

The Wassataquoik Island site has been a very popular site for backcountry campers for many years. Until 2007, the site provided a small, primitive cabin. After consideration,

this cabin was replaced with a standard cedar log lean-to. Wassataquoik Island is also preferred nesting habitat for loons on Wassataquoik Lake. Loons often construct a nest and tend an egg on the west side of the island in close proximity to the access route to the campsite. Loons have selected this area more or less continuously for many years. In order to avoid possible disturbance to the loons during the nesting period, the Park has closed the site to rental until it has been determined that the loons are either not nesting that season or the egg has been hatched and the adult loons and chick



Little Wassataquoik Lake (photo by J. Bissell)

have moved out into the larger area of Wassataguoik Lake. Normally, this process is concluded by August 1 and the site can be opened for rental. Occasionally, the egg is not viable or the loon lays a new clutch for various reasons. In these cases the loons will sit on the egg for a much longer time, delaying the opening of the site until the middle of August. In the 1990's, Park staff considered relocating the island campsite to another location on the southern half of Wassataquoik Lake. Reconnaissance of the lakeshore area did not produce any acceptable site for relocation. During this same time period,

the option of relocating the Little Wassataquoik Lean-to to another location on Little Wassataquoik Lake was also examined. Although many of the issues identified with the current location of this lean-to were discussed during this earlier review, no action was taken on this consideration.

In the winter of 2013, Park staff cleared a winter-access trail from the Park Tote Road to Center Pond, west and south of Little Wassataquoik Lake. The trail provided winter snowmobile access to haul in materials for a lean-to at Center Pond. The Center Pond lean-to was constructed in the spring of 2013 and opened for rental in the summer of the same year. With the completion of the Center Pond lean-to, consideration rose regarding the lean-to at Little Wassataquoik Lake, as the trail access cleared to reach Center Pond would also provide a good start on accessing the Little Wassataquoik Lake site, but without other needs, the trail should be left to return to its natural state. The trail issue prompted a revival of the review process of both the Little Wassataquoik Lake site and the loon nesting impacts on the Wassataquoik Island site. The area between the north end of Wassataquiok Lake and the lean-to at Little Wassataquoik Lake was examined by several members of Park staff including administrative, enforcement ranger and campground ranger staff.

The reconnaissance produced data and assessments on the Little Wassataquoik Lake lean-to and five alternate sites in the area.



BSP Staff Taylor, Hoekwater, Woodard and Morrill recon site options (photo by J. Bissell)



Planned Changes

After careful consideration and discussion, here's what we decided. The changes are intended to protect the flora and fauna of the area, while providing a variety of recreational opportunities to backcountry campers.

1. Construction of a new lean-to, privy and access trail at Alternate site 6. The site will be named "Wassataquoik Lake".

The shared conclusion of the reviewing group is that the current status of the Little Wassataquoik lean-to site is unacceptable. Several alternate sites were reviewed. In addition, the general lack of tent site opportunities in the area was also considered. This led to the determination and review of alternate sites 3 and 4 as tent site opportunities. As consideration widened to include the concerns of the loon nesting issue at Wassataquoik Island, a stronger consensus emerged that the establishment of a second appealing site on Wassataquoik Lake would provide a good alternative to campers in the early season when the island site is closed. The existence of a good alternative within the reasonable hiking distance of Russell Pond Campground (3.9 mi.) would also allow a firmer opening date to be set for the Wassataquoik Island Lean-to of August 15. This date will better ensure the annual opportunity

for loons to nest undisturbed on the island shore. Alternate site 6 emerged as the clear best opportunity for this additional lean-to. Alternate site 6 is within reasonable hiking distance of the Center Pond Lean-to (5.5 mi.) and can be reached by stronger hikers in one day from the trailhead at Nesowadnehunk Field (10.2 mi). The site is appealing, located on well-drained soils and can be enhanced by a dedicated canoe. A modest length of trail will be required to access the site to the Wassataquoik Lake Trail and provides good privacy to the site from the main trail. Opportunities to successfully site a privy between the lean-to and the main trail appear to be good.

2. Removal of the Little Wassataquoik Lean-to and conversion of this site to a tent site. The existing privy on site will be retained. Selected trees around the tent site will be removed to admit some sun and airflow to the site.

With the decision to install a new lean-to on Wassataquiok Lake on alternate site 6, attention returned to the issue of tent sites in the area. After careful consideration of alternative sites 3 and 4, the option of utilizing the current Little Wassataquiok Lake lean-to site as a tent site emerged. This option would allow the use of the existing privy and would recognize the attraction of the spring brook at the site. The overgrown and dark nature of the site could be corrected with some careful and judicious removal of trees and vegetation around and over the site. The establishment of this site as a tent site will allow reasonable access to Russell Pond from Nesowadnehunk Field (9.4 mi.) by tent campers.

We were fortunate to have the opportunity to work with the Maine Army National Guard in a training exercise in November. Guard Black Hawk helicopters moved in cedar logs and other materials and supplies for the new leanto. We hope to complete the lean-to construction by June 1 and to site and construct the new privy for the site by July 15. The site at Little Wassataquoik should be converted to a tent site by June 15. Keep an eye on our website for the announcement of the opening of the new lean-to - it's a really great site!



Park Naturalist Jean Hoekwater checks shoreland plants at Little Wassataquoik Lake (photo by M. Taylor)

Baxter State Park Authority Accepts Conservation Easement on Katahdin Lake

At a special meeting of the Baxter Park Authority on Monday, December 16, 2013, Authority members voted unanimously to accept the "Keep Lot North" conservation easement granted by heirs of the James Sewall family covering an historic parcel of land on the shores of Katahdin Lake.

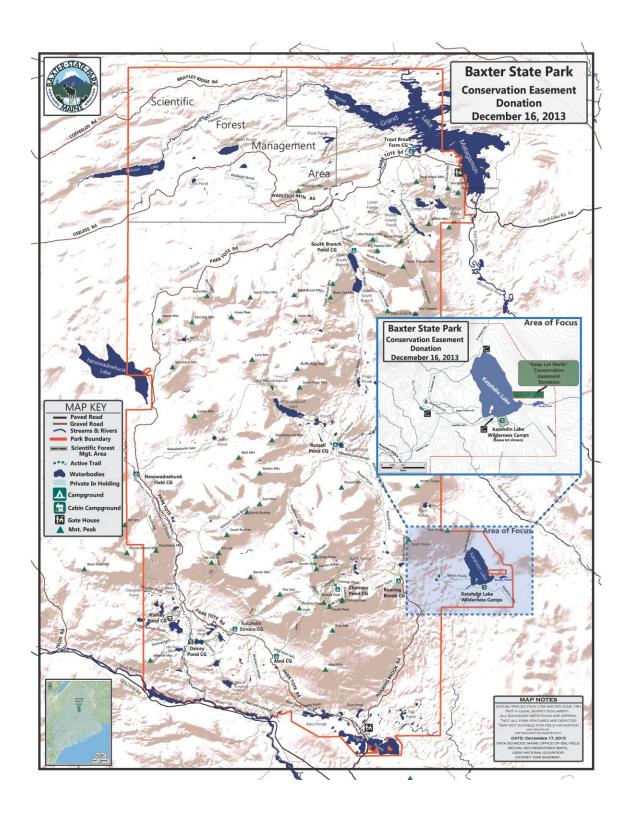
Sewall Family members Tingey Sewall of Boston MA, University of Maine Chancellor James Page of Old Town, ME and Thomas Gary of Mashpee, MA, offered an unconditional gift of various conservation rights on a 43 acre parcel including over 500 feet of shore frontage on scenic Katahdin Lake in Baxter State Park.

Over 4,500 acres of private land surrounding Katahdin Lake was gifted to Baxter State Park in 2006. The Sewall tract was not included in the gift and remains as a privately owned "in-holding" surrounded by land owned and managed by the Baxter State Park Authority. An adjacent in-holding owned by the Huber Family and Corporation was donated to the Park in 2012.

The 43 acre parcel was originally part of a 200 acre parcel provided to the Reverend Marcus Keep of Patten, ME by the Maine Legislature in 1860 in recognition of the work Reverend Keep had done in establishing some of the first hiking trails to access Katahdin. Keep Ridge on Katahdin is named after Reverend Keep. James W. Sewall purchased the Keep Lot in 1901. Although some of the original Keep Lot was sold, Sewall retained the 43 acre lot that includes stunning views of Katahdin.

The Keep Lot North Conservation Easement permanently protects the lot from commercial or industrial development and provides permanent protection to the wildlife, water and scenic values of the parcel.

This generous and foresighted action by the Sewall heirs provides the final piece of protection needed on Katahdin Lake. Together with the Huber donation in 2012 this conservation easement ensures that Katahdin Lake will forever remain the pristine and beautiful Maine lake envisioned by Percival Baxter.



First Short-Haul Evacuation In BSP

Early in July we issued the following press release:

A 62 year old hiker from Texas was air lifted from a mountain peak in Baxter State Park on Monday afternoon, July 1, 2013, after suffering upper and lower body injuries from a large rock falling on him.

Park rangers were alerted to a possible injury around noon on Monday from a 911 call from a concerned hiker and a ranger was dispatched from Katahdin Stream Campground to look for the injured hiker.

After an assessment by a Park Ranger on the scene, Ned Hamara was transported by a Maine Forest Service helicopter to Caribou Pit in Baxter State Park. The Forest Service utilized a short-haul system to extract the injured hiker from the approximately 3,900' elevation and transport him to the open area of Caribou Pit where he was transferred to a waiting ambulance for transport to Millinocket Regional Hospital for treatment shortly after 4:00 pm.

End Release

This press release was by design a very compressed version of what had been a complex and effective evacuation of an injured hiker from steep, rocky and timbered terrain. It was also the first "short-haul" rescue ever implemented in Baxter State Park. It will almost certainly not be the last.

Short-haul rescue refers to the technique of using a fixed length of line attached to a helicopter to land a crew member with medical training to perform an assessment on an injured or ill hiker and prepare the patient for evacuation and then to evacuate the patient and crew member and fly both to the nearest access point for advanced life support (ALS).





Photos courtesy Maine Forest Service

Short-haul rescue provides the opportunity for the relatively rapid access of medical support to a patient or patients located in very steep, rocky or forested terrain where the landing of a helicopter is not an option. Unless the helicopter is equipped with a winch capable of raising and lowering a crew member and patient from an access door, rescuers only option in this terrain is to secure the patient in a litter and carry them either down and out, or up to an area where a helicopter can land.

The Maine Forest Service has worked very effectively and professionally to add the short-haul technique to the skill sets of MFS helicopter crews and pilots. Thanks to the commitment of this agency, the Park now can include an important and life-saving option to rescue and evacuation considerations in the Park.

While the photos above depict the flight segments of the short haul system, in real life – in the trees, steep terrain and available weather and beneath a powerful rotor driven aircraft– a short haul evacuation is a noisy and raucous event requiring cool heads, steady hands and good communication. The short haul evacuation in July was filmed by a Park hiker and is a testament to the careful training and professional approach of everyone involved. The video can be viewed here:

http://www.jems.com/video/raw-footage-short-haul-rescue-injured-ma

Any evacuation from backcountry areas, particularly the steep, rocky and remote areas common to the wilderness zone of Baxter State Park includes some elements of risk. Litter-carry evacuation efforts in high elevation areas of the Park often involve more than 40 people. In these evacuation operations, it is common for people to focus on the risks to the patient, but risk elements extend to all participants and injuries to rescuers working on an evacuation or a search can and do occur. Evacuation team leaders work

hard to maintain a safe workplace and a culture of safety on the rescue site during evacuation operations.

Helicopter evacuations also involve risk. Helicopters are complex machines and mountain rescue operations require pilots to maneuver helicopters near or over rough and variable terrain in often strong and changeable winds.

The specific variables in each rescue, including patient condition and trending, current and forecasted weather, available ground personnel and the relative risks of existing evacuation options are carefully weighed by the incident commander before committing to an evacuation plan.

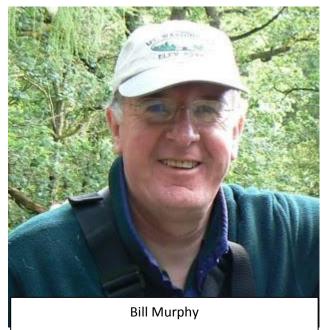


Patient lands at Caribou Pit near a waiting ambulance (photo J. Bissell)

Of course the safest evacuation is the one that doesn't happen. That's why our efforts are to encourage hikers to hike safely, be prepared for the conditions, make good decisions on the trail, and set a turn-around time and stick to it. We will always hope for the best, but when things go badly wrong on tool to have!

Wilderness Concept Develops In Ireland

In 2010, I received a very enjoyable visit from Bill Murphy, a fellow forester and recreation manager from Ireland. Bill serves as Head of Recreation, Environment and



Public Goods for a Coillte, a semi-state forestry company managing over 1 million acres of State (we would think of it as "National") forest land in Ireland

(http://www.coillteoutdoors.ie/).

Coillte (a Gaelic word pronounced roughly, "Queel-cha") is an unusual entity in itself and a somewhat difficult concept for Americans to understand. Coillte was established under the Irish Forestry Act 1988, which basically split the forest management segment of what we would define as the Irish Forests Services aside as a separate State-owned commercial company. This is the amalgam that is hard to define in American terms. While Coillte looks and acts like a state corporate entity, the company is legally a private1[1] limited

company registered under and subject to the Companies Acts 1963-86. All of the shares in the company are owned by the State and held by the Minister for Agriculture, Fisheries and Food and the Minister for Finance on behalf of the Irish State. The Board of Directors is appointed by the Minister for Agriculture and Food.

Ireland is about 3 ½ times the size of Maine. Coillte manages 443,000 hectares (equal to a little over 1,100,000 acres) of land, about 7% of the area of Ireland. While Coillte is focused on managing forests for timber production, it is also very active in encouraging and managing for a wide range of recreational activities on a beautiful landscape that is widely used and dearly treasured by the Irish people.

Over the course of a couple of days, Bill and I spent some time in the Park and discussed a wide range of management issues related to wilderness and recreation management. Bill's questions all had a purpose – he had identified a remote and relatively unmodified landscape and he wanted to propose the area be set aside as wilderness.

The concept and certainly the original expression of wilderness as a societal value has its roots in America and is best exemplified by the passage of the Wilderness Act by Congress in 1964. The much more extensive and long cultural and land use history in Europe makes an expression of wilderness in American terms more difficult. However,

^{1[1]} A "public" company is a company listed on the stock exchange while a "private" company is not – it can be owned by an individual, a family, or in this case the State (Ireland).

forward thinkers like Bill Murphy and the broader thinking resulting from the European Union have provided new avenues for the acceptance and application of wilderness in the European context. The European Commission on the Environment produced the **Natura 2000** as a plan to conserve biodiversity across the European landscape. **Natura 2000** includes specific definitions of wilderness and the challenges of wilderness area creation and management in a European context (http://ec.europa.eu/environment/nature/natura2000/).

After our time together, Bill continued his work on establishing a wilderness area on Coillte managed lands. Late in 2012, I received an invitation to speak at a conference hosted by Coillte and the National Parks and Wildlife Service (Ireland) to both address the issues of "Wilderness in a Modified Landscape" and to mark the launch of the Nephin Beg Wilderness Area on Coillte and National Park lands in the Nephin Beg mountain range, County Mayo in the west of Ireland. Coillte has provided an informative video of the Nephin Wilderness project

http://www.youtube.com/watch?feature=player_embedded&v=N1CZRu2f7IM

In May, I made the trip to Ireland and spoke at the conference. The conference was attended by more than 100 delegates from 8 European countries and a wide range of Irish stakeholders and also included a presentation from the Environmental Directorate of the European Union. The first day of the conference was very interesting and provided a full introduction to the issues and challenges facing wilderness establishment in the European context. For my presentation and others see http://www.coillte.ie/intex.php?id=1910



Conference Attendees (photo by J. Bissell)

Day two of the conference was all about visiting the Nephin Beg Wilderness, or at least the edge of this 11,000 hectare (27,500 acre) wilderness area north of Westport in County Mayo, Ireland.

The field trip included stops to view and discuss numerous issues involved with the initial stages of establishing the wilderness.

We spent some time at a small stone building called a "bothy" – originally designed as a shelter for shepherds, now being considered as the primary trailhead and parking opportunity for the newly designated area. The trailhead included access to the "Bangor Trail", an ancient drovers route that is recorded on maps as early as 1590 and traverses the area offering a wilderness hike of over 25km. A reminder that the Bangor of my home had origins in Ireland.



English Entrance Sign to the Nephin Wilderness (photo by J. Bissell)

One of the most interesting portions of the day for me was a visit to recent shelter construction and trail re-construction efforts. It is important to realize that the European

landscape, including Ireland, has been utilized and inhabited by people for centuries. In most areas, the original flora and fauna are either absent or heavily impacted by species imported from other areas. In many instances, exotic species have been in place for so long the distinction is hard to define – hence the conference theme of "Wilderness in a modified European landscape". From a beautiful vantage point into the Nephin, the view I saw reminded me of somewhere in



Brogan Carroll Bothy (photo by J. Bissell)

Montana. The conifers in the foreground were planted lodgepole pine and Sitka spruce, the slopes in the background were grazed by sheep.

Although the landscape looked arid, it was quite the opposite and much of the underlying "soil" consists of a thick blanket of peat. The climate of the west of Ireland promotes the formation of peat on a great percentage of the landscape. In recent years, the preservation and restoration of



View into the Nephin Wilderness (photo by J. Bissell)

peat ecosystems, particularly raised bog ecosystems, has been a strong focus in environmental management in Ireland and Coillte has restored close to 4,000 ha. (10,000 ac) of blanket and raised bog sites. The existence of 3' or more of peat on the

landscape can provide real challenges in trail construction and maintenance. In the relatively wet climate of Ireland the blanket of peat on the landscape acts as a huge sponge, holding and distributing astounding amounts of water. Adjacent to some mechanized trail work, a cut displayed the peat face and the water pouring out of the peat layer.

As you would expect, the surface footing was soft and wet. This poses a serious problem for defined trail access. Any significant foot traffic on a defined treadway would quickly work through the thin vegetated layer and enter the peat beneath. When this happens, it is game over regarding the maintenance of the path as a hiking trail. Coillte demonstrated a section of trail where an excavator was employed to remove the peat layer and replace it with coarse sub-soil material from below the peat layer.

As you can see from the photo, this approach has significant impacts in both site disturbance and cost but is likely to produce a trail tread that can withstand significant hiking traffic. The adjacent disturbance will likely be quickly revegetated in the damp lrish climate. This process is likely not applicable for any length of trail in the Wild Nephin, (and is being used here on a section of the heavily used "trail" in part of the developed natural zone of the new wilderness) but it is an example of the adaptive and energetic approach to addressing recreation challenges brought to bear by Bill Murphy and his staff at Coillte.



Reconstructed trail section through peat layer (photo by J. Bissell)

We also spent some time looking at the Wild Nephin's latest construction project. This shelter was constructed by volunteer labor provided by Mountain Meitheal. Mountain Meitheal (http://www.pathsavers.org) is an Irish trail conservation club similar to the Maine Appalachian Trail Club (MATC) in the US and the lean-to was constructed by the club to celebrate their tenth anniversary and the launch of the wilderness area. The shelter was similar, but more refined than a typical log lean-to in Baxter Park and utilized machined "log" walls and an OSB and

cedar shingle roof. In the photo below, you can see the water collection device on the side of the lean-to which captures and stores water from roof run-off for use by hikers.

As a result of the gracious hospitality of Bill and his wife Bairbre, I was able to stay in

Ireland for several days before and after the conference and spend time In Wicklow Mountains National Park with Regional Manager Wesley Atkinson, of the National Parks and Wildlife Service as well as additional time on Coillte lands on a tour as part of an conference on Ecosystem Services. The complexity of the interacting concerns of environmental, ecosystem and social issues in land management in Ireland is extremely interesting and for me, very encouraging. Recently, we have been discussing continuing to share our knowledge and experience on the wilderness concept and the management of wilderness. I have the greatest



New Lean-to at the edge of the Nephin Wilderness (photo by J. Bissell)

hopes that over time the Irish people will treasure the Nephin Wilderness just as Maine people treasure Baxter State Park.

New Wilderness Sign

You Are Entering Maine's Largest Wilderness

Your Safety is Your Responsibility

Set a Turn Around Time and Stick To It

Your Destination is Your Safe Return to the Trailhead

Rescuers Can Be Many Hours in Arriving

This season, Park hikers headed toward Baxter Peak will notice a new sign. There are countless signs in the Park - trail signs, rules signs, policy signs, information signs. Of all the signs in the Park we post to help people to have a good experience while protecting the Park environment - this sign might be one of the most important. We hope it is.

A day hike to Baxter Peak is one of the most challenging day hikes in New England. Although more than 30,000 people will sign a trail register at a Katahdin trailhead this summer, we still consider Pamola, Baxter Peak and the Knife Edge to be a part of the wilderness of Baxter State Park. Once away from the trailhead, wilderness conditions exist for all hikers, including sudden and sometimes violent changes in weather and steep, rocky and unstable terrain. Most importantly, most visitors are left to make important decisions about their actions and plans based on their own or their group's experience. No formal assistance from Rangers or others is consistently available. Since 1962, when Percival Baxter completed his grand vision, 48 people have lost their lives in the Park's wilderness - roughly one per year.

Although hard to verify with existing scientific data, the past decade has left Park managers with the growing conviction that Park visitors are increasingly unprepared for

the physical, mental and environmental challenges that are often a part of an excursion into a wilderness environment.

The number of Park visitors who attempt a Katahdin hike and are significantly underprepared in terms of basic equipment and supplies like food, water, warm/weatherproof clothing, a map, and a headlamp or flashlight (required by Park Rules) seems to be increasing. This lack of preparedness often seems closely paired with a false perception that help or assistance is always close at hand, convenient to utilize and with zero cost to the visitor.

Increasingly, visitors display an attitude of expectation more akin to an amusement park attraction, where the element of thrill and danger are illusions wrapped in an invisible net of safety and security. This attitude can be very hazardous in a wilderness environment where sudden changes in weather, difficult terrain and continuing physical exertion require sound individual judgment, a flexibility and openness in planning and constant attention to the environment in order to maintain a reasonable level of safe conduct.

Over the past decade, our attempts to address these concerns have largely been oriented toward increasing the venues, volumes and specificity of information we target to Park visitors, particularly through:

- Information on sign and bulletin boards near hiker registration boxes at trailhead Ranger Stations
- Information on the Park website, Newsletter, Gatehouse handouts etc.
- Face to face information provided by Park Staff

We realize that some of our most important messages may be getting lost in the ocean of information we try to make available to the conscientious hiker.

The Next Step

Five signs were erected. The signs would be medium size, likely 30"x 20" – small enough not to be overbearing, but too large to overlook.

Signs were placed on each of the four primary access trails to Katahdin: Abol, Hunt Chimney Pond and Helon Taylor trails. A fifth sign was placed on the Traveler Loop just outside South Branch Campground. *Placement is important*. Too close to the trailhead and they may be overlooked by hikers amped up with starting a big Katahdin hike. Hikers at the trailhead are often nervous, excited and eager to get started. Too far up the trail and they may get lost in other signs or appear at a point when hikers begin to feel their plans are unchangeable.

The signs were placed not too far up the trail, but far enough that the initial edge of excitement has worn off, the physical effort is beginning to be understood, and the initial anticipation has been replaced with an awareness of and openness to the different environment of wilderness.

The message of the signs is very important. We believe four messages is the most we can hope for if we aim for retention and consideration. Any more than four and the messages get ignored or mixed up. We have worked with staff and the Park Advisory Committee to craft the sign messages worded in the most simple and elegant fashion. We hope the simple but important messages on these signs will come to mind later in the day, at that point where decisions - sometimes critical ones - are made. If even one hiker averts disaster by adopting these ideals, we'll consider this "mission accomplished".

BSP Rules and Regulations

Two changes were enacted to the Baxter State Park Rules and Regulations in 2013. Section 4.12 was modified by the addition of Commercial Media Projects to Research Studies as activities requiring a special use permit from the Park Director. Section 5.8 was modified to permit the use of ATV's on the frozen surface of Matagamon, Nesowadnehunk and Webster Lakes and Lower Togue Pond. This change brings the Park Rules in compliance with existing State law.



BSP Wilderness Sign on the Chimney Pond Trail (Photo by J. BIssell)

Management of Open Areas and Vistas

A concern identified in the Park Management Plan (sec. 4.4.2.4.1) was the lack of any specific long-term guidance on the management of vistas and open areas in the Park. The administrative team and the BSP Advisory Committee invested time and effort in 2013 to develop policy and guidance to address this concern. After approval by the Baxter State Park Authority, the guidance below was added to the management plan.

Guidance - Management of Open Areas

Nesowadnehunk and Trout Brook Farm - Previous logging operations in the park included the clearing of significant openings at these two campgrounds in the Park. The



Looking south from Nesowadnehunk Field

original openings at both locations were significantly larger than exist currently and included a number of buildings and structures, all of which have been removed. The openings at both areas are beginning to fill in with trees and other forest growth and require human intervention through prescribed fire or manual cutting and/or mowing to maintain them as early successional forest habitat. As suggested by the words "Farm" and "Field" in their names, these areas have been open in some

degree for their entire history as Park campgrounds and the openings are a component in both staff and visitor's impressions, memory and understanding of these areas of the Park. The shape and delineation of the existing openings at both campgrounds is somewhat square with abrupt edges and reflects human influence more than a natural event such as a wildfire or wind storm. Management guidance is to retain a defined primary core of the existing openings at both Trout Brook Farm and Nesowadnehunk Field Campgrounds through mowing. The primary core would be shaped to include significant edge habitat and a non-linear shape more similar to a natural opening. The portions of the current opening outside the primary core would be allowed to gradually return to a forested condition. Draft designs for the primary core areas for Nesowadnehunk Field and Trout Brook Farm are included in the appendix (see maps below).

Kidney Pond – no changes in primary campground opening.

<u>Daicey Pond</u> – allow lower meadow to re-vegetate to forest growth over the next several decades.

<u>McCarty Field</u> – allow open space to re-vegetate to forest growth over the next several decades.

<u>Katahdin Lake Wilderness Camps</u> lower meadow – this meadow is partially in use by the camps as part of their commercial sporting camp operation. The Park will not maintain the opening, but will otherwise not prevent the camp operator from maintaining the current opening. Enlargement of the current opening will not be permitted.

<u>Foster Field and Nesowadnehunk Field Group Areas</u> – these areas shall be maintained in their current state as open areas to facilitate the use of large groups.

Other Openings – the Park maintains a number of natural and man-made openings as landing zones (LZ) for emergency helicopter use. The Park will continue to maintain all specified LZ's within Baxter State Park to necessary dimensions to meet the needs of potential emergency rescue aircraft. (Chimney Pond, Russell Pond, Slaughter Pit, Katahdin Lake upper meadow, SFMA Hemlock Road Camps

Guidance - Management of Roadside Vistas

A drive of the Park Tote Road reveals more than forty current existing vistas of mountains, fields, streams or a combination of these features (see attached map – Observed Viewpoints on the Park Tote Road). Almost all of the current vistas occur naturally without staff intervention for creation or maintenance.

In keeping with the Forever Wild trust directives, with two notable exceptions, roadside vegetation shall not be cut or otherwise manipulated to create or maintain vistas or views.

Open areas from past logging, camps, or other human activities that may still exist along the side of the Park roads will not be maintained to provide mountain or



Doubletop from the Park Tote Road
(J. Bissell)

landscape views. Viewpoints will not be cut along the Park road to provide or re-establish views that once existed but have become obscured as a result of forest growth, but views may be created by the clearing of brush to maintain the integrity of roadbeds and drainage structures. Examples include the clearing of vegetation on causeways such as at Maynard's Marsh on the Daicey Pond Access Road, and at all large culverts in the Park, including the North Branch of Trout Brook, Avalanche Brook and the large culvert in the causeway between Abol

Pond and Abol Logan. Past logging activities created some roadside views in the Park that have since grown back to forest. Natural events, such as windstorms, wildland fire and insect outbreaks also created scenic views that have diminished over time as the forest has re-grown. Based on our knowledge of natural disturbance patterns in Maine (sec. 4.4.1), we should expect these forces to create new viewsheds in the coming years.

Exceptions:

1. Roadside/wetland interfaces: in cases where the existing Park road system interfaces directly with a non-forested wetland, vegetation growing on the



Moose in Maynard's Marsh (J. Bissell)

shoulder or edge berm of the road may be trimmed. This vegetation management provides the dual benefit of maintaining the road shoulders as well as providing unobstructed views for road travelers of the wetland as well as a wider landscape in some locations. Existing locations along the Park Tote Road where this exception would apply would include Barren Brook, Maynard's Marsh on the

Daicey Pond Road, Fowler Green, Black Brook at the Black Brook

culvert crossing. In addition, the wetland 0.5 miles from Togue Pond Gate on the Roaring Brook Road would also apply. Lastly, maintenance of culverts over 5' in diameter requires that vegetation be cut or otherwise discouraged from growth on the roadside edge and fill around large stream culvert placements on the Park Tote Road such as Wadleigh Brook, Black Brook, the North Branch of Trout Brook, Dwelley Brook, Roaring Brook (near Slide Dam), Abol Stream and tributaries (Ladd/Scott Culvert), Abol Pond Logan and culverts on the Roaring Brook Road including Chase Brook, Bear Brook and Avalanche Stream.

2. The open area along the Park access road approximately 200' before (south of) Togue Pond Gatehouse is a typical parking spot and the last point-of –pause



(J. Bissell)

before entering into the Park at Togue Pond Gate. This opening was the former site of the Togue Pond Gatehouse and Mountain View Camp and as late as the year 2000 a good all-season view of Katahdin was available at this site. Over the past decade, trees have grown up on the north edge of this opening and obscured the view. In consideration of the value of this view to potential Park visitors who may be deciding on a Katahdin hike, or

whether or not to visit the Park, the Park will work to gradually restore this vista by the

removal of obstructing trees over a two to three year period. After the vista is restored, photo documentation will be employed as a guide to the continuing maintenance of this vista.

Vista Management - Trails

Existing trails in the Park often afford fine vistas of the surrounding landscape, particularly trails that extend or exist above treeline or travel through mountainous



Teardrop Pond from the Marston Trail

terrain. Trail maintenance on existing trails should be restricted to the clearing limits of normal trail maintenance expressed in the Standard Operating Procedures. This guidance anticipates that some vistas formerly provided on some Park trails may, over time, become obscured by trees. The guidance similarly anticipates that windthrow and other natural disturbance events will provide unexpected vistas on trails after the initial clearing work in completed. A familiar example of this would be the section of the Saddle Trail a mile or so above Chimney Pond that was intersected by a

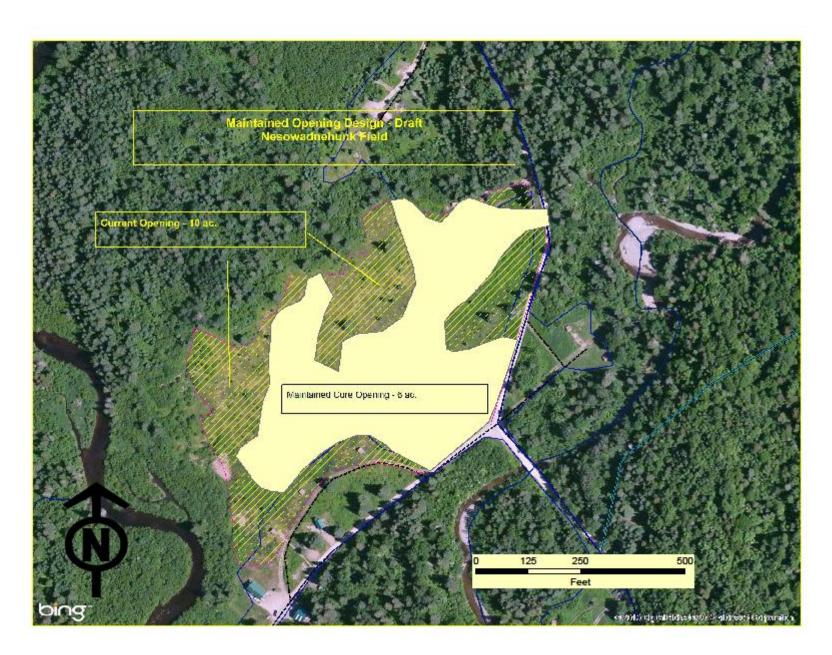
winter avalanche in the 1980's. This section of the trail still provides excellent views of the surrounding slopes of the Great or South Basin and Hamlin Ridge.

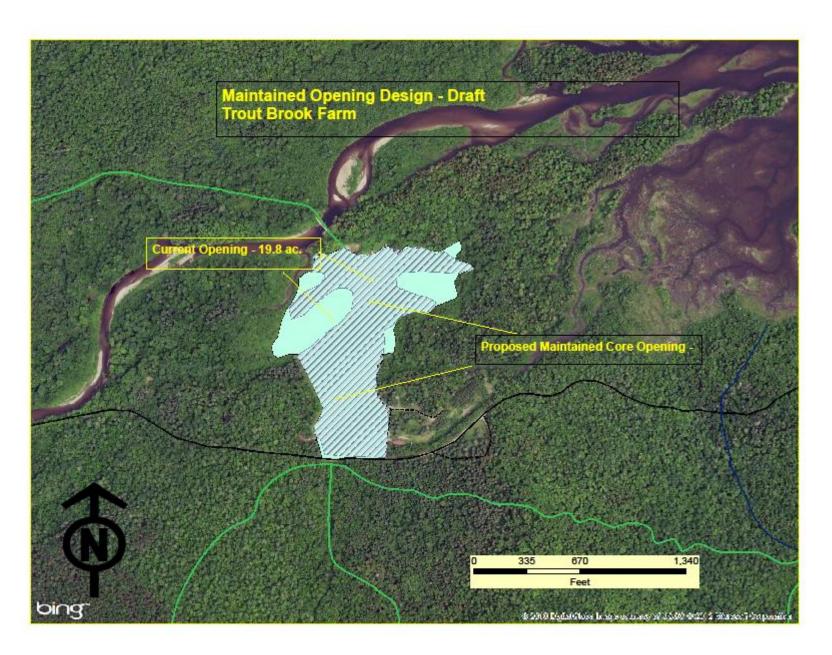
Vista Management - Campgrounds and Campsites

Outside of the guidance provided above regarding the significant openings at

Nesowadnehunk and Trout Brook Farm Campgrounds, tree and vegetation management in campgrounds and around campsites shall be limited to what is necessary to provide adequate public, staff and operational safety. It is anticipated that individual backcountry and frontcountry campsites originally constructed with an available view may lose that view in time due to the growth of the forest.







B. Operational Highlights and Overview for 2013

A winter scene between Strickland and Center Mountains Photo courtesy of Stewart Guay



I. SAFETY

Noteworthy safety oriented activities in 2013 include:

- 1. Snow was removed at the Millinocket facilities and sanding of all entrances and walkways was performed.
- 2. Park Rangers checked and reported ice conditions on lakes and ponds in December, January, February and March. Typically, bodies of water checked are: Lower Togue Pond, Lower Basin Pond, Chimney Pond, Matagamon Lake, South Branch Ponds, Pogy Pond and any others that are necessary to cross for winter operations.
- 3. All chimneys and woodstoves were cleaned of soot and ash.
- 4. All fire extinguishers were inspected and re-certified for the year and checked on a monthly basis.
- 5. Park visitors were informed daily of weather and hiking conditions. Mountain Patrol personnel hiked Katahdin during heavy use periods to assist, aid, and inform hikers of Katahdin trail conditions and environmental concerns.
- 6. To enhance resource protection as well as public safety, Park Rangers performed a number of focused and assigned alpine trail patrols in the spring of the year. These assessments were integral in the timely opening and closure of Katahdin and Traveler trails.
- 7. Wind thrown trees were removed from the Park Tote Road and trails on a routine basis.
- 8. All boats, flotation devices and canoes were checked for serviceability and repaired or replaced as needed.
- 9. Maine Search and Rescue teams (Mount Desert Island, Franklin, Wilderness, Mahoosuc and Lincoln) covered busy weekends in May, June, July, August, September and October.
- 10. All cabins, tent sites, lean-tos, outhouses, and all other Baxter State Park facilities were inspected for safety and serviceability.
- 11. All campfire rings were inspected to meet Baxter State Park fire safety standards.
- 12. Wildfire suppression equipment was tested and inspected Park wide.
- 13. All search and rescue equipment was inspected to assure rescue readiness.
- 14. Baxter State Park personnel were involved in 64 search and rescue incidents.
- 15. Smoke and carbon monoxide alarms were inspected and replaced as needed.
- 16. 7.1 miles of trail were re-blazed for better hiker visibility.
- 17. Corridor definition was completed on 34.4 miles of trail to enhance visibility and safety.
- 18. Annual safety, chainsaw, search and rescue, first aid and wildfire suppression training were provided for Baxter State Park personnel.
- 19. Law enforcement rangers received firearms usage and safety training.
- 20. Bridges on winter administrative snowmobile trails were shoveled regularly to reduce over load and tipping hazards.
- 21. The 2-way radio communications equipment were repaired and replaced as necessary to enhance search and rescue operations.
- 22. The Maine Forest Service located a wildfire suppression fire engine in the Togue Pond area to better enhance readiness for emergency wildfire response.
- 23. Avalanche hazard detection training was hosted at Chimney Pond on January 24 27 and was attended by BSP Staff.
- 24. Baxter State Park continued to work closely with its Medical Director Dr. Diaz in the review of all medical related search and rescue incidents.

II. PUBLIC RELATIONS

- 1. Baxter State Park personnel within the Park made multiple contacts with at least 63,474 people from May to October in 2013. This does not include numerous day use contacts at Togue Pond Beach, Matagamon Picnic Area, snowmobile riders, ice fishermen, winter campers and hunters in the Scientific Forest Management Area.
- 2. Baxter State Park employees assisted the public by rendering numerous services that included: transporting hikers, delivering messages, minor vehicle repairs and vehicle jump starts. Information on scenic views, trail conditions, wildlife viewing, good fishing locations and similar topics was daily passed on to the public.
- 3. The Alpine Stewards greeted and assisted hundreds of hikers on Katahdin.
- 4. Baxter State Park staff participated in occasional speaking engagements throughout Maine and in the Park to assist the Interpretive Division.

III. MAINTENANCE

Purchases

1 used 2004 Dodge 3/4 ton crew cab pickup for trail crew

1 used 2011 regular cab pickup for the Interpretative Specialist

1 600 wide track snow sled for ranger 62

1 600 super wide track snow sled for ranger 54

1 new chain saw for ranger 54

1 new chain saw for Kidney Pond

2 gas refrigerators for the SFMA Coffeelos camp and the Kidney Pond Stream camp

3 woodstoves for Kidney Pond + Daicey Pond rental cabins

Repeater for Power House hill

Wood splitter for general Park use

2 water heaters for Daicey Pond and Nesowadnehunk campgrounds

Heater for the Kidney Pond office

Electric drill and impact wrench for the maintenance garage

Building Projects

Headquarters in Millinocket

- 5 heat pump/air conditioning systems were installed
- Glass partition for the Reservation office was installed
- Electric door openers were installed on the elevator

South end of the Park

- Constructed new lean-to and outhouse at Center Pond
- Replace insulation, interior paneling and sink cabinets in the Chimney Pond Crew camp
- Built a 3 bedroom addition, installed a bathroom and replaced the roof on the Lower Togue Pond camp
- Installed a new metal roof on the Katahdin Stream Ranger camp
- Built an access road and installed two vaulted privies in the Daicey Pond campground to service cabins 1-5
- Replaced the roofing on cabin #9 at Daicey Pond

North end of the Park

- Replaced two outhouses at the Trout Brook Farm walk-in sites
- Replaced the outhouses at Second Lake and Little East on Matagamon Lake

Road Projects

- Five (5) miles of Park road had the brush cut back to a height of 12 feet by a contractor. The area covered was from Barren Brook to 1/10 of a mile south of the Marston trailhead
- Black Brook culvert was replaced with an open bottom arch that restores the natural stream bottom removing previous obstacles to fish passage
- Nine (9) culverts were replaced in the Park Tote Road between the Phoenix turn and the Black Brook service area road
- Gravel was spread on two (2) miles of the South Branch road and several culverts between the flats along Trout Brook and Trout Brook bridge were covered.

Bundle Wood

8693 bundles of fire wood were processed at Abol Service area and sold in the area camp grounds. This is a decrease of 604 bundles over the previous year. The ratio of bundles sold is running three times more softwood than hardwood. All the softwood bundle wood processed again this year on the south end of the Park was saw mill slab wood and trimmings accumulated from the milling of bog bridging and bridge decking for Park projects.

3692 bundles of wood were processed at the East Branch pit and sold in the Park's northern campgrounds. This is a decrease of 200 bundles from the previous year.

Maintenance Shop Projects

The staff mechanic spent 1669 hours in the shop and 168 hours assisting on field projects. Below is a summary of vehicle maintenance projects completed:

- Batteries replaced 5
- Body repairs 5
- Brake jobs 5
- Canoe repairs 2
- Chain saw repairs 4
- Electrical repairs 5
- Exhaust repairs 1
- Front end repairs 5
- Generator repairs 3
- New tires installed 27
- Outboard motor repairs 3
- Rear end repairs 3
- Road service calls 2
- Snow sled repairs 32
- Vehicle Inspections 34
- Tires repaired 6
- Vehicle services 54
- Water pump repairs 2
- Lawn mower repairs 3

The following are additional projects completed by the staff mechanic:

- Set up a new truck for the trail crew
- Installed a new radio and booster in the Interpretative Specialist truck
- Assisted with the fall graveling project

Parts and material used = approximately \$30,245 on motor vehicle parts \$6323 on snow sled parts \$21,614 on building projects and repairs

IV. SEARCH AND RESCUE

There were 64 search and rescue incidents that required the assistance of Baxter State Park personnel in 2013. For the first time in many years, two of the search and rescue operations involved the use of aircraft. Refer to **Appendix I** for additional information.

Maine Forest Service performed their first non-training short haul helicopter rescue in Baxter State Park this year. Their dedication to public safety, resource protection, and high level of competence is noteworthy.

V. SPECIAL ACTIVITIES

- 1. Annual winter inspection of Park Ranger ranks was performed.
- Baxter State Park Rangers, both current and retired, attended a memorial service on May 17 for Ranger Ralph Heath, who gave his life in the attempt to save the life of another. On that day, we continued a new tradition in which relatives of Ralph Heath were invited to attend the memorial. Attendance was better than last year.
- 3. Assistance was rendered to Wilderness Rescue Team, Mahoosuc Mountain Rescue Team, Mount Desert Island Rescue Team and Lincoln Rescue Team by transporting search and rescue personnel and equipment from Abol Bridge on the Golden Road to Chimney Pond for winter training exercises.
- 4. On Saturday May 4, Park Rangers assisted volunteers and other park staff at the Baxter State Park 2013 Earth Day road side clean-up.
- 5. On June 5, the annual formal summer inspection of Park Ranger ranks was performed.
- 6. A variety of staff, particularly Togue Pond Gate and Katahdin Stream Campground Rangers, assisted the Penobscot Indian Nation while in the Park during their annual run of the Katahdin 100 on Labor Day Weekend.
- 7. Mutual aid was rendered between Baxter State Park, Maine Warden Service, Maine Forest Service and other local and state law enforcement departments.
- 8. The Maine Forest Service assisted with new employee Wildfire Suppression Training.
- 9. Park Rangers led or assisted with: Introduction to Search and Rescue, Basic Rope Rescue, GPS Training, Chainsaw Training and numerous safety trainings.
- 10. Park Rangers serve on BSP interview panels as needed.

VI. LAW ENFORCEMENT

Baxter State Park continues to maintain a low profile law enforcement program with emphasis on education and information. Law enforcement officers are required to attend 20 hours of training each year. The 2013 mandatory training consisted of: MCJA firearms qualification, new law and case updates, understanding cultural diversity and biased based policing, drug recognition and impairment, and social media. Law Enforcement Rangers attended a number of elective training opportunities including Crisis Intervention.

The violations in 2013 were varied with the majority relating to camping violations. Regular hunting patrols were scheduled in T6R9 and T6R10 townships. Baxter Park Rangers investigated nine motor vehicle accidents in the Park this year. To review the summary of court cases and law enforcement courtesy warnings, please refer to **Appendix I**.

VII. FACILITY AND RESOURCE MAINTENANCE

Maintenance plays a very important role and continual upkeep of Baxter State Park and its facilities assures a safe and positive experience for Park visitors. Listed below are the pertinent projects completed by Park staff in the year 2013.

A. PARK RANGERS

- 1. Communications & Solar Power. Park Rangers assisted the maintenance group in servicing solar charged batteries and improving wiring in key locations.
- 2. Park wide, gravel and screenings were hauled for minor road and spot surfacing projects. Park roads were also rock raked by staff.
- 3. Winter hauling trails were established and maintained to Russell Pond and Chimney Pond Campgrounds. This work involved: snowshoeing, shoveling snow, trail breaking, cutting of wind thrown trees and diligent upkeep after winter weather events.
- 4. Winter re-supply operations were completed for Russell Pond and Chimney Pond Campgrounds included bringing propane tanks, firewood, bridge repair and construction materials, requisitions and supplies into the backcountry.
- 5. Several bins of outhouse compost were removed from Chimney Pond Campground to the Rum Mountain Service Area.
- 6. Park staff and volunteers assisted Park Rangers in establishing a winter hauling trail to Center Pond. Materials for an outhouse and lean-to facility were then transported via snowmobile.
- 7. The Park's search and rescue winter personnel transport sled was rebuilt.
- 8. Maintenance and upkeep of infra-red counters occurred on various tote road and trail locations to monitor snowmobile and other activity.
- 9. Welding jobs were completed, both in fabrication and repair of heavy equipment, tote sleds, portable gates and other assorted tasks.
- 10. Brush and wood demolition and debris was burned and cleaned up at the East Branch pit, Rum Service Area, Nesowadnehunk and Tracy Pond pit.
- 11. When alternative coverage efforts fail and seasonal staff absence is unavoidable, supervisors provide short term coverage at duty stations.
- 12. Several miles of the BSP boundary line were cleared, re-blazed and painted.
- 13. Numerous campground and road signs were routed at Trout Brook Farm.
- 14. Park Rangers worked with campground and maintenance staff in removing beaver blockage and debris from several Baxter State Park culverts.
- 15. Park Rangers were engaged in the research, planning and layout of maintenance projects Park wide.
- 16. During shoulder seasons and as time allows, Rangers help the Park Mechanic with various jobs and projects.





New Canoe Rack and Lean-to at Center Pond

B. CAMPGROUNDS

Campground Rangers routinely clean campsites, lean-tos, cabins and outhouses. These rangers remove wind thrown trees from the roads, campgrounds and trails that are near duty stations as well as clear out culverts on the same roads. While on roads and trails, Rangers assist motorists and hikers that are struggling with motor vehicle problems or injuries, respectively. They also patrol for litter in Baxter State Park campgrounds, parking lots, roads and trails. Picnic tables, signs, gates and sign posts are stained, repaired or replaced on an as needed basis. Buildings, lean-tos and outhouses are painted and stained by campground rangers as well as minor building maintenance such as replacing stovepipes, repairing gravity fed water lines and mending screens and screen doors. Winter campground staff also keep solar panels clear of snow, keep key doors and outhouses free of snow and daily meets the environmental challenges that Baxter State Park presents in the wintertime. Listed below are each duty stations' maintenance projects that were beyond the routine.

Park Rangers, Roving Rangers and Campground Rangers from Abol, Katahdin Stream, Kidney Pond, Daicey Pond and Roaring Brook Campgrounds worked together at the Togue Service Area producing cut and split firewood. Over the years, this firewood has often been provided by vendors or contractors. The rangers worked up approximately 50 cords of wood and saved the Park thousands of dollars. The wood was distributed between the above campgrounds as well as Togue Pond Camp and Chimney Pond campground.

ABOL: Paul Corrigan CRI, David Chase CRI

- 1. The Ranger Station was jacked and leveled.
- 2. One lean-to was jacked and leveled.
- 3. The entrance steps to the Ranger Station were replaced.

KATAHDIN STREAM: Yves Baribeau CRI, Meghan Malone Acting CRI

- 1. Three lean-tos were jacked and leveled.
- 2. Five fire pits were completely re-built.
- 3. A new Foster Field Group Area sign was designed, approved, routered, painted and installed.
- 4. Assistance was rendered at Daicey Pond in re-shingling cabin nine.

DAICEY POND: Andrew Vietze CRI, Charity Levasseur, CRI

1. A major focus in 2013 was the installation of a service road to access outhouse facilities on the

- east side of the campground.
- 2. The roof on cabin nine was re-shingled.
- 3. The porch on cabin three was jacked and leveled.
- 4. The Ranger Station outhouse was removed.

KIDNEY POND: Diane Freelove CRI, Dean Levasseur CRI

- 1. New railings and steps were installed on cabin seven.
- 2. A new deck and ramp were installed on the library.
- 3. The hand rail and steps were repaired on cabin nine.
- 4. A new screen door was crafted and installed on the Ranger Camp.
- 5. Service was rendered at Daicey Pond on the new service road project.

NESOWADNEHUNK: Mark Varney CRI, Kidney, James Barden Acting CRI, Daicey Pond, Trout Brook Farm and Roving Ranger Staff

- 1. A considerable amount of time is spent mowing in the Nesowadnehunk area.
- 2. Ranger staff had no special projects, but numerous routine maintenance and up-keep duties were fulfilled.

SOUTH BRANCH POND: Gabe Williamson CRI, Gunter Bernardini CRI

- 1. Assistance was rendered at the re-shingling project for the Matagamon Gate pump house.
- 2. Preparations were made to replace lean-to five in the spring of 2014. Those include but are not limited to: remove old lean-to five, locate logs, lumber, roofing and supplies.
- 3. Numerous wind thrown trees were cleared after July's unofficial tornado.

TROUT BROOK FARM: Gerald Locke CRI

- 1. The Trout Brook Farm Campground Ranger must cover Nesowadnehunk Campground one day per week.
- 2. A considerable amount of time is spent mowing the Trout Brook Farm area, North Branch Camps, and Burnt Mountain.
- 3. The Trout Brook Farm Campground Ranger patrols the Five Ponds Trail weekly, maintaining campsites, outhouses and fire rings.

ROARING BROOK: Russell Porter CRI, April Bolstridge CRI, Meghan Malone Acting CRI

- 1. The steps on the bunkhouse were replaced with new.
- 2. Bog bridging was replaced in the campground and Nature Trail paths.
- 3. Floor boards were replaced on the back porch of the Ranger Station.

CHIMNEY POND: Gregory Hamer BRW (Winter), Mark Sairio BRW (Winter), Mark Sairio BRI (Summer), Roving Ranger Staff

- 1. Winter staff at Chimney Pond work on: establishing and maintaining the snowmobile hauling trail, removing accumulated compost to an approved storage site, remove demolition and material from the previous summer, swap empty for full propane tanks, haul 3-4 cord of firewood up from Roaring Brook and transport numerous other requisitions and supplies.
- 2. Bog bridging, cribbing, stringer logs and service bridge deck materials were transported in winter to job sites on area trails including the Chimney Pond Trail and Sandy Stream Pond.
- 3. Winter staff patrolled local trails cutting blow-downs and marking with flag tape those areas so deep with snow that painted tree blazes were obscured.
- 4. Assistance was given to the Park Carpenter on the Crew Camp project.
- 5. A new Trail Crew tool storage locker was built.
- 6. Blow-down trees were removed from and corridors were defined in local campground and Katahdin trails.

RUSSELL POND: Gregory Hamer BRI, Brendan Curran BRI

- 1. Blow down trees were cut from: Pogy Notch Trail, Wassataquoik Lake Trail, Wassataquoik Stream Trail, Northwest Basin Trail and the Russell Pond Trail.
- 2. A new (first ever) bear line was installed on the south side of the campground.
- 3. The women's double outhouse was re-roofed.
- 4. A propane platform was built for the bunkhouse.
- 5. New siding was applied and stained and new windows were installed on the Ranger Camp's east wall.
- 6. Russell Pond Rangers assisted the Trail Crews in re-opening the North Peaks Trail.
- 7. Several new crossing logs were cut, peeled and placed on local campground trails as well as area hiking trails.
- 8. Little Wassataquoik lean-to was removed in preparation for that site's conversion to a tent site.

ROVING RANGERS: Bill Martell BRI, Gardner Waldeier BRI, April Bolstridge Acting BRI

- 1. Filling in for time off requests and staff vacancies at gatehouses and campgrounds comprises the bulk of Roving Ranger time every year.
- 2. Foot patrols and facility maintenance were performed in the Martin Ponds and Katahdin Lake areas.
- 3. Maintenance and upkeep were performed on the Abol Field Camp.
- 4. Brush was cut via tractor and brush hog on the Park Tote Road.

C. GATEHOUSES

All gatehouse attendants assisted with firewood, mowing grass, the cleaning of out-houses, staining and lettering of Park signage, and other projects as time allowed.

TOGUE POND: Tom Power, Rick Leavitt, Katrina Kinkead, Robin Stevens, Ruth Levesque

- 1. Routine cleaning of Togue Pond Beach and area facilities.
- 2. Togue staff continued to work diligently in the successful Day Use Parking Reservation System.

MATAGAMON: Dana Miller, Marcia Anderson, Tracy Young

- 1. Assistance with campground coverage and maintenance at Trout Brook Farm campground.
- 2. Worked alongside Park Rangers clearing blow down debris.
- 3. Filled pot holes in Matagamon area.
- 4. Pumped accumulated rain water from Matagamon boat on occasion.
- 5. In addition to signs, Matagamon staff painted pre-fabricated outhouse panels as well as Matagamon buildings and facilities as needed.

VIII. VOLUNTEER PROGRAM

A heartfelt **THANK YOU** is sent out to everyone who volunteered at Baxter State Park in 2013. Each individual effort helped to create a successful season and memorable experience for all. (Please see appendices for volunteer listings.)

IX. TRAIL MAINTENANCE REPORT

Paul Sannicandro – Trail Supervisor, Nick Huntington – Trail Crew Leader, Rob Read – Trail Crew Leader and Alan Watson – Trail Crew Leader

BAXTER STATE PARK TRAIL CREW INTERNS

Full Season Interns

Joseph Bisson – Lisbon, ME	Wesley Johnson - Richmond, VA
David Planchet - Concord, NH	Max Wither – Berea, OH

Summer Crew Interns

Larsen Andrews – Yarmouth, ME	Brian Gugger – Tewksbury, MA
John Horton – Falmouth, ME	Kathleen Ring – Sturgeon Lake, MN
Shayla Williams – Colton, NY	Dylan Young – Swampscott, MA

Fall Crew Interns

Cole Adams – Scottsville, NY	Raymond Beaupre - Vernon, CT
Brian Canning – Sunapee, NH	Anne Nickerson – Houlton, ME
Aidan Shafland - New York NV	

STATISTICS

TRAIL STAFF WORK HOURS

(Tally of a 26 week Trail Maintenance Season)

Total Trail Staff Hours	15.789
Maine Trail Crew (MATC Cost Share)	937
Maine Conservation Corps	3,850
BSP Trail Crew Interns	8,562
Trail Crew Leaders	1,720
Trail Supervisor	720

TRAIL VOLUNTEER WORK HOURS

AMC Service Trips	198
BSP Trail Stewards	193
Friends of Baxter State Park (MYWP)	56
Individuals – Trail Friends	538
Maine Appalachian Trail Club	122
Tanglewood 4-H Camp	<u>54</u>
Total Trail Volunteer Hours	1,161

TOTAL TRAIL WORK HOURS = 16,950 HOURS

Statistical Overview

Trail Staff Work Hours for 2013 were comprised of our three classified trail maintenance positions, our BSP Trail Crew Interns, Maine Conservation Corps (MCC) contract crews as well as the MATC's

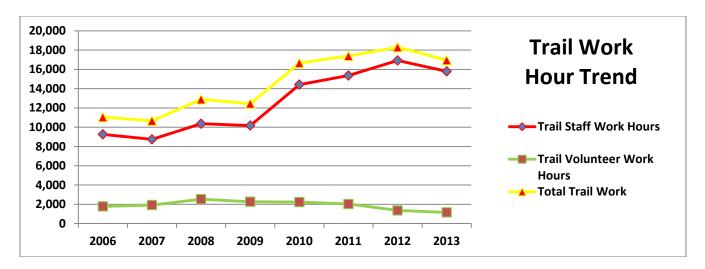
Maine Trail Crew. These work hours are counted separately to distinguish the efforts between paid or contract trail maintenance staff and our volunteer trail maintainers.

The 2013 season marks the fifth year since BSP embarked on its own internship model. Our BSP Trail Crew Interns collectively contributed 8,562 work hours towards trail maintenance for the 2013 season. This total is a minor decrease from the 8,960 hours recorded in 2012, and is attributed to one intern position that was not filled for the Fall Season in 2013.

The total hours contributed to the Trail Staff category for this past year was 15,789 hours. Those hours show a decrease of 7%, compared to last year's total of 16,928 hours. This decrease was due to having one intern vacancy during the Fall Crew Season coupled with a leave of absence from the Trail Supervisor during the second half of the season. Hours contributed from both the MCC and MATC Maine Trail Crews did not see any significant fluctuations compared to the previous year's totals.

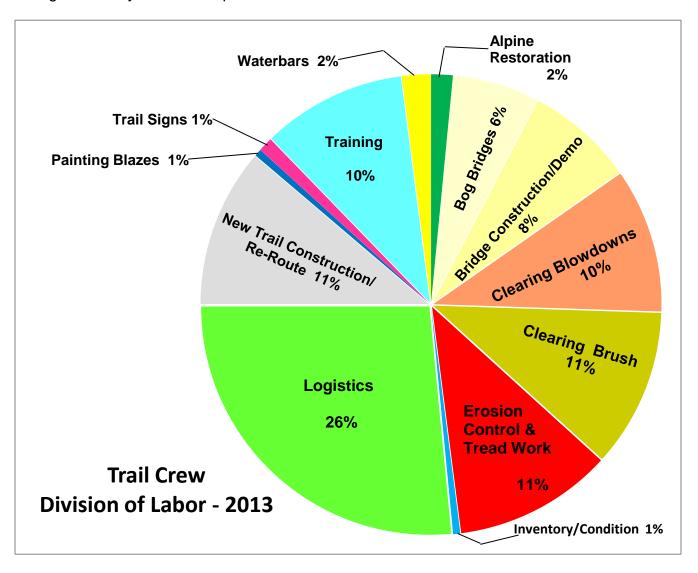
For the second year in a row, the Trail Maintenance Volunteer Program has had a slight decrease in participation. For 2013, our total Trail Volunteer Work Hours amounted to 1,161. This is a decrease of 15% participation compared to the 2012 total of 1,363 hours. The reason for this gradual decrease is attributed to the shift of time management priorities and reallocating available time towards the management of paid crews. MCC Crews (categorized as Trail Staff) continued to sustain a greater level of contribution to our operations for the fourth year in a row. This has made it more challenging to continue to support programs such as Volunteers for Peace, which in years prior would contribute as much as 400 volunteer hours. These fluctuations are expressed in the 'Trail Work Hour Trend' chart below.

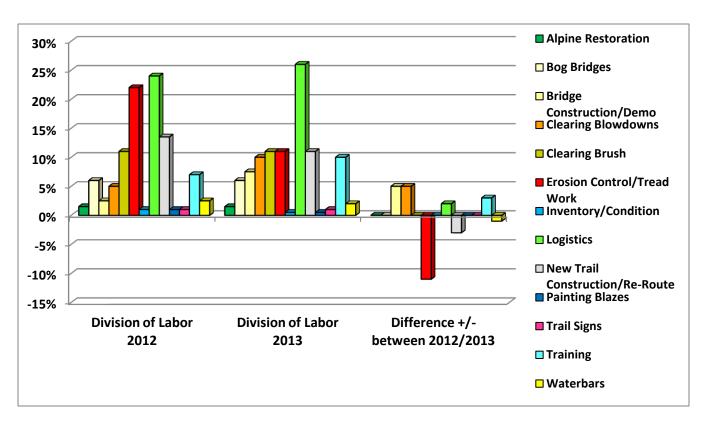
The total sum of hours within our overall trail maintenance program had decreased from 18,291 hours in 2012 to 16,950 hours in 2013, which was a 7% decrease. This occurred due to the combination of the Trail Supervisor's shorter season, having one less Fall Crew Intern and the steady downward trend of participation from our volunteer base.



Accurate documentation of work projects is a most important task for trail crews. The reports that are generated from weekly work projects are indispensable tools for reviewing work done in the past, recording current conditions and planning for the future. In an effort to more accurately gauge and estimate projects for the future, actual time spent working on the various categories of tasks have been separated from the total weekly work hours.

The non-project specific hours that can vary greatly from project to project such as travel time, hiking, planning, tool maintenance and others, have been grouped together in one category labeled "Logistics". The separation of these metrics enables us with better estimations for project time lines and expected outcomes. This in turn assists us with creating a diverse project schedule, focusing on priorities and creating realistic goals for the limited time allotted that we can field and support teams during our twenty four week operational season.





These comparisons are on a whole and the values expressed as a percentage, are percentages of the total sum of two separate years.

As we review the chart above, we can see the areas within our division of labor where we extended our focus and, consequently, other areas where specific efforts were not as emphasized as the year before.

This is very apparent in the categories of Bridge Construction and Clearing Blowdowns. This, of course, was due to several weeks in which we replaced the "Long Bridge" on the Chimney Pond Trail, and the tornado event in July which required additional blowdown patrols.

The Logistics category also rose a bit in 2013. In an effort to optimize our resources and strive for efficiency, we'll be looking into more appropriate housing for projects that are remote and require more than an hour of total daily commuting for driving and consider backcountry camping options for projects that require daily multi-mile hiking commutes to the same project site. Acting on these considerations will lessen the amount of time for logistics and put more time into actual work on trail projects.

Training also rose a bit in 2013, due to the opportunity of our crews being schooled by the MATC's Maine Trail Crew with a two day rigging workshop.

Erosion Control and Treadway projects dropped off significantly. This is of course due in part to the additional time needed to spend on bridge reconstruction and the fact that our annual material extraction/erosion project above Katahdin Stream Falls ended in the Fall of 2012. That particular project would accrue over 1,000 volunteer hours, from the twenty or so people that it took to staff it, over an eight day period.

As far as New Trail Construction/Re-routes are concerned, the best way to explain the seeming decline from the prior year is that in 2012 it was a new category to itself with the greater focus attributed from our Mt. OJI re-route project. Although MCC Crews had as many weeks on the overall effort of Mt. OJI in 2013, two weeks out of their nine week stint were dedicated to Erosion Control and Treadway work.

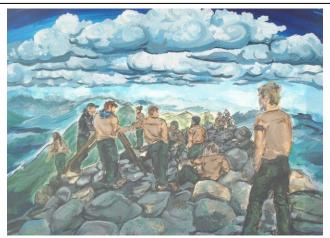
Alpine Restoration – 402 hrs.

Abol and Hunt Trails: Thoreau Spring Area – 402 hrs. Our Crews replaced the weathered nylon string for the string fencing in the vicinity of Thoreau Spring and extended the string fence to the edge of the tableland on the Abol Trail. The string fences are designed to delineate the treadway of the braided trail segments of the Hunt and Abol Trails around Thoreau Spring. This trail feature distinguishes the hiking route from the damaged braids that are slowly re-seeding naturally from the native vegetation that surrounds this alpine route. Our crews also placed new metal signs that were designed by our Information and Education Division to capture hikers' attention with regard for staying on



the trail and within the string fences. And three new cairns were added to the upper end of the string fence area.





Trail Crew's own "Resident Artist", Katie Ring, posed with her original painting. She was inspired by her first trip with Trail Crew, in performing Alpine Restoration Work on Katahdin.

Our tool cache of alpine rigging equipment was moved from the top of the Cathedral Trail to the Thoreau Spring area. This took some effort and consumed a couple of days' worth of work. With that task behind us, we were able to begin moving rock materials to the trail's edge from a source just 200 feet off the trail using our tripod highline rigging system.

Once the bugs were worked out of the rigging system, we were able to safely pull box loads, weighing approximately 150 pounds, across the alpine tundra without damaging the vegetation along the route of transport. All in all, our crews and volunteers were able to move approximately six tons of granite material that will be used to construct cairns, enhance scree walls and place stepping stones in wet areas of Thoreau Spring.

Our crews will continue efforts in 2014 to gather rock materials and build stone trail structures that will aid in better trail delineation in this vulnerable area.

Bog Bridges – 967 hrs.

Pogy Notch Trail: 384 hrs. Approximately 448 feet of bog bridging was replaced on the first half mile of the Pogy Notch Trail, from the trailhead at South Branch Pond Campground. This effort replaced the bridges that were last installed in the autumn of 1997 and allowed our BSP Crew to collaborate with an AMC volunteer crew with great results.



Sandy Stream Pond Trail: 553 hrs. The segments of bog bridging along the main route that connect both of the outlets of Sandy Stream Pond were replaced in 2013. The last year they were replaced was 1996, keeping true to the average lifespan of cedar bog bridges, which is fifteen years. The work was stretched out over both the Summer and Fall seasons, which not only enabled members of both crews to benefit from the training, but also accommodated the peak visitation times of mid-summer and leaf peeping seasons. Our BSP Crews, MCC and Mike and Sue Zlogar assisted in this collaborative effort, enhancing access to Sandy Stream Pond and protecting one of our most visited

areas to hiker impacts. Approximately 728 feet of pre-milled bog bridging was reconstructed.

SFMA Interpretive Trail: 30 hrs. The BSP Fall Crew, based out of the Trail's End Cabin, assisted SFMA staff with developing a new interpretive trail along the "Management Mile" of the Park Tote Road. Approximately 56 feet of new bog bridging was constructed on this new trail that will be value added to the educational aspect of the SFMA's mission.

Total Bog Bridge Construction = 1,232 ft.

Bridge Construction – 1,294 hrs.

Chimney Pond Trail –"Long Bridge" 1,119 hrs. Just up the hill from Basin Ponds is where a 225 foot bridge spans the crystal clear waters of Pamola Springs. Crews from both the Summer and Fall programs, along with volunteers and members of MCC Crews, spent several weeks replacing approximately 175 feet of the aging structure. The bridge was last replaced in its entirety during the 1994 season.



Freezeout Trail - 175 hrs.



At the trailhead of the Freezeout Trail in Trout Brook Farm Campground, there is a bridge that spans Trout Brook. The decking for the main span, kick rails and the nailers that are fastened to the steel I-beams, were replaced on the 65 foot span.

Clearing Blowdowns - 1,756 Hrs.

This essential, general maintenance task is the first job that our crews initiate annually after completion of their training regimen. On an average season, it can take the trail crew and field staff three weeks to patrol all of the trails for blowdowns in the park. The focus is to first clear trails that are in closest proximity to the campgrounds, for they will be the first trails to get used. Priority is also given to the trails known for the greatest hiker traffic so that hikers will not create braided trails around the blowdowns that become obstacles. Finally, our attention turns to the littler used trails that do not see a great volume of hikers and are not as prone to getting braided by foot traffic.



Our Spring seasons have recently been trending toward a much earlier arrival than usual. Being that BSP Crews normally do not have the opportunity to begin cutting blowdowns until the first week of

June, MCC Crews make a valuable contribution in being able to get an earlier start to open up the trails. Their efforts, as well as the Friends of Baxter State Park's Sawyer Crews, have been a great help in being able to open many of our trails before the Memorial Day Weekend.

In late July of 2013, our Trail Crew responded to an unlikely weather event that wreaked havoc on trails in the Webster Lake and Trout Brook Mountain area. A tornado touched down in those areas, knocking down hundreds of trees across the trail system of the Park's northern regions. Our crews, in addition to Park staff, were able to quickly shift gears and spend a couple of weeks patrolling trails that were reported to have significant damage. Substantial windfall damage was inflicted in the vicinity of the junction of the Freezeout and Wadleigh Brook Trails, on toward Hudson Pond. A trail re-route for that segment is being planned for 2014.

Erosion Control and Tread Hardening – 1,859 Hrs.



Abol Trail: 81 hrs. Over the course of two days in early July, our Trail's End Crew used the opportunity to work on the Abol Trail to learn how to manipulate and transport rocks with pry bars. The result was a good team building experience that focused on communication and attention to details. The crew completed one rock waterbar and gathered materials for another that will require some drilling on a future visit.

Chimney Pond Trail: 489 hrs. In mid-August an MCC Crew spent two weeks gathering stone materials and reconstructing waterbars to replace the remaining

defunct wooden waterbars that were built in the late 1970's. Four rock waterbars were constructed in the vicinity of half-way rock.

Hunt Trail (MATC): 314 hrs. The Maine Trail Crew spent its very first three weeks in BSP finishing the monumental staircase project just beyond Katahdin Stream Falls. The work, sponsored in part by the MATC, with a match from Baxter State Park, was the culmination of a twenty-two year project that started in 1991. The crew built 55 rock steps as well as two rock waterbars, with materials that the BSP Crews transported trailside during the Fall of 2012. The result is an impressive stone staircase

comprised of 433 steps that stabilizes soils by preventing further erosion and preserves the hiking experience for generations to come.

Mount OJI Trail: 561 hrs. In an effort to preemptively deal with water diversion issues coupled with hiker impacts on the shallow thixotrophic soils, such as those that we have in our northern boreal mountains, the MCC and our BSP Crews spent a few weeks hardening segments of wet trails and building water diversion structures.



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The MCC created two retaining walls, one which was 13 feet long and another 12 feet long. Each of these structures was built to reinforce the backslope of switchbacks, as well as hardened 15 feet of treadway at one of those locations. In addition, a 9 step staircase was constructed along with an additional 12 foot long by 4 foot tall retaining wall, a rock waterbar and 2 stepping stones.

Our BSP Crews contributed to the tread hardening and erosion control efforts by constructing one 20 foot long retaining wall, placing 5 stepping stones, creating a 20 foot long causeway and securing three rock steps.

The locations of these trail features were catalogued and prioritized through a report that Trail Crew Leader Alan Watson compiled. The details recorded in his report will be helpful prioritizing and estimating additional work to be done in the upcoming season.

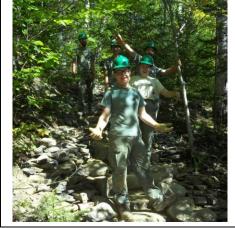


Sentinel Mt. Trail: 240 hrs. Trail Crew Leader Alan Watson led his Kidney Pond Crew on two separate weeks for the Sentinel Mt. effort. The first occasion in late August gave him and his crew the opportunity to survey the

deficiencies, identify rock sources, prioritize sites and gather materials.

During the Kidney Pond Crew's second session in late September they were able to focus on construction of the trail features that were identified on their first trip. The Crew constructed a 13 step rock staircase, 1 rock waterbar, a 10 foot causeway and a 30 foot long retaining wall. All structures were newly installed on areas that have been gradually eroding over time.

South Branch Falls Trail: 174 hrs. Trail Crew Leader Nick Huntington and the Trail's End Crew continued on a project from a previous effort where the Fall Crew of 2011 had gathered materials. With materials already on site, they were able to make of



materials. With materials already on site, they were able to make quick work of their efforts. The Crew built a 23 step rock staircase, 2 rock waterbars and placed rip-rap on the edges of the staircase.

Inventory – 79 Hrs.

In an effort to complete and refine our Trail Condition Classification System within our GIS System we continued assessments this year on the Hamlin Ridge, Mount OJI, and Sentinel Mt. Trails. The information documented has already aided us in prioritizing needs on the Mount OJI re-route and the continued erosion abatement on Sentinel Mt.

New Trail Construction/ Trail Re-Route - 1,791 Hrs.

Katahdin Lake Trail: 312 hrs. With the help of several volunteers and our Summer Crew led by

Alan Watson, the eastern access trail to Katahdin Lake was rerouted from the adjoining eastern boundary with EPI Lands to a route that follows along the north bank of Katahdin Brook. Following the brook upstream, leads hikers to the outlet of Rocky Pond, continuing the route along the northern shore of the pond and leading to the outlet of Katahdin Lake. Our Crew spent a week cutting the new 1.5 mile segment, as well as grubbing out stumps, defining the trail corridor and painting blazes. Plans for a more sustainable connector from the outlet of Katahdin Lake to Katahdin Lake Wilderness Camps are still under discussion.



View of Katahdin from the outlet of Rocky Pond – Katahdin Lake Trail - T3-R8 – Photo by David Mahoney

Lower Fowler Pond Trail: 36 hrs. Our Fall Crew led by Nick Huntington, made a quick days work of cutting and finishing a new trail segment that bypasses one of the two campsites on Lower Fowler Pond. This bypass will add value to the camping experience for our visitors at this site, giving them more privacy. The by-pass is approximately 300 feet.



Mt. OJI Trail Re-Route – MCC Crew – Fall 2013

Mount OJI Trail: Re-Route 1,364 hrs. This was a continued effort of a project that can be highlighted as the pilot program to solving trail erosion issues by rerouting damaged, unsustainable trail segments over gentler slopes as opposed to the past practice of hardening steep, eroded fall line segments. With the assistance of an MCC Crew partnering for nine weeks with Baxter State Park, we were able to continue into the second year of developing a reroute that comprises 2.3 miles of new trail. The new trail segment bypasses some of the worst erosion areas nearer to the granite slides where hikers

formally would need to scramble across to ascend OJI's ridge.

This work included several phases of construction such as an initial cut of the corridor and fine tuning the definition of the corridor to ensure consistency through the varied terrain.

Next, tread work such as grubbing out tree stumps with mattocks and Pulaski axes is an intensive and laborious task. Grubbing also encompasses local excavation of high spots (hummocks) on the tread and filling in the low spots (hollows) with that material.

Then, sidehill bench cutting of the treadway allows for hikers to traverse laterally across the side of the slope and assists with the management of diverting water off of the trail, to further prevent erosion. Using hand excavation tools such as mattocks and Pulaski axes, the crew used this excavation technique to also incorporate two additional switchbacks into the route.

Highlights of the new route feature sustainable slopes that will require less maintenance as years wear on and also offer visitors with a wider range of ability to access this once very demanding, technical and dangerous summit. Also, the 0.2 mile spur to the West Peak will surely become a favorite to those visitors seeking amazing landscape vistas, not available before. Updated signage has been designed for routing and a scouting trip planned to assess work still to be done prior to an official opening to the public.

SFMA Interpretive Trail: 78 hrs. In a collaborative effort with SFMA staff, the Trail's End Crew assisted with the construction of a 0.5 mile section of the new Interpretive Trail that is accessible in the "Management Mile" vicinity of the Park's Tote Rd. near Trout Brook Crossing.

National Trails Day

Our annual National Trails Day event in was held on June 1, 2013. We had ten volunteers join our Summer Crew for a day of general trail maintenance training which encompassed waterbar cleaning and maintenance, corridor definition with hand saws and loppers and GPS use for documenting work efforts. This annual training offers volunteers a basic foundation of training, should they be interested in taking on a trail assignment as a Trail Steward.

Trail Stewards

There was a slight rise in the level of participation in the Trail Stewards program this past year. This is a reverse in the trend from the last few years, partially due to the fact that for the fourth year in a row, we have sustained the highest level of involvement and scheduling of our own crews and Maine Conservation Corps crews. The increase in our contracted crews had diminished, somewhat, our ability to manage this facet of our operation.

Promotion, by both the Park's website, the Friends of Baxter State Park's quarterly newsletter and by word of mouth through active Trail Stewards, has helped in the past to promote the program. New participants often are recruited by veteran Trail Stewards to assist with their trail assignments.

The following is an overview of the general maintenance that was performed by our Trail Crews and Trail Steward volunteers.

Blazing	- 78 Hrs.	Corridor Definition Co	ont'd
		Doubletop Mt. Trail	0.2
Cathedral	0.5 miles	Draper Pond Tr.	0.2
Fowler Brook Trail	1.3	Five Ponds Tr.	0.3
Horse Mt. Trail	1.7	Fowler Brook Trail	1.7
Lower Fowler Pond Tr.	0.9	Grassy Pond Trail	0.7
The Owl	2.2	Howe Brook Trail	0.2
South Branch Falls	<u>0.5</u>	Katahdin Lake Trail	2.0
Total	7.1 miles	Lower Fowler Pond Tr.	0.9
		Mt. Coe Trail	1.8
		Mt. OJI Trail	0.7
Corridor Definition – 1	,904 Hrs.	North Basin Trail	1.5
		OJI Link Trail	0.5
Abol Pond Trail	1.5 miles	Rocky Pond Trail	1.2
Abol Stream Trail	1.2	Rum Pond Trail	1.9
Appalachian Trail	3.0	Sentinel Link Trail	0.5
Blueberry Ledges Tr.	1.5	Sentinel Mt. Trail	1.3
Cathedral Trail	0.5	South Turner Mt. Trail	1.1
Caverly Pond Tr.	0.1	Tracy & Elbow Ponds Tr.	1.0
Chimney Pond Tr.	0.3	•	
Cranberry Pond Tr.	1.4	Wassataquoik Lake Trail	7.2
		Total Miles Brushed Out	34.4

Trail Signs – 60 Hrs.

The following signs were replaced in 2013. These numbers are the catalog numbers that one will find on the back of all BSP trail signs, which is correlated to our master card catalog system which lists the catalog number, geographical location and wording for each sign.

Signs replaced: 66.02, 94.02, 94.03, 94.04, 94.05, 4.01, 10.02 and 20.02. Many of these signs were replaced above treeline on Katahdin.

Training – 1,610 Hrs.

Training is a major component of our Trail Maintenance Internship Program. The training regimen that we provide to our interns not only serves as a foundation to cultivating a safety minded crew, but it also initially serves as an enticement to get potential applicants interested in our program.

During the first two weeks of our program, our interns benefit from training sessions such as Wilderness First Aid, Introduction to Search and Rescue, Chainsaw Safety Training, Introduction to Wildfire Suppression and learn Leave No Trace outdoor ethics. In addition to

this, the summer crews participate in the spring meeting, with fall crews participating in the fall meeting.

In 2013, our BSP Summer Crews also had the opportunity to learn about rigging for trailwork, with the MATC's effort on the Hunt Trail project.

Such opportunities as the ones mentioned above, truly do assist crews with developing situational awareness for all aspects of the work that they do on the crew. These training opportunities ultimately play a large role with developing the safety culture among our crew.

Waterbars and Water Diversion – 354 Hrs.

General Maintenance Patrols: 354 hrs. These hours encompass the early and late season patrols to clean waterbars on all of the steep trails that hold these trail features.

Trail Volunteers

Nathan Karol Bill Foster Paul Rosefeldt Ellen Sackstein Debra Taylor Jave Lauder

BSP Trail Stewards

Charlie Jacobi Nancy Jane Clark Mary Kellogg Elizabeth Kellogg Dan Aldrich David Mahoney Jane Brann Suzanne Lussier Marcia Williamson Rose Rodrique Rebecca Hopkins Barb Hamlin Charlie Kenney

Friends of BSP

Loren C. Goode Sr.

Charlie Jacobi Aaron Megquier

Appalachian Mountain Club Friends of BSP (MYLP)

Annika Alexander-Ozinskas. Matt Stern Will Greene Ivy Enoch Beverley Guay Paul Philips Nate Skvorak Emma Houston Katelin Moody John Devine Addie Drinkwater Emmett deMaynadier

Individuals – Trail Friends

Mike and Sue Zlogar Joe Saetta Paul Delanev

Richard Barrett Tracy St. Onge-May David Wilcox Jerry Mullin Todd Flagg Nelda Clelland

Christopher Flint Doug Dolan

Evan Kearney

Individuals – Trail Friends

Ryan Jones Kenneth Beach Jon Schmidt

MATC

Rick Ste. Croix John Neff Alan Leathers Ray Anderson **David Little** Priscilla Seimer Melanie Coombs-Taylor Ned Kitchel

MATC – Maine Trail Crew

Irene Hussev Nathan Ventura **Bryan Bennett** Kyle Bennett Anna Daggett Sarah Marino Tyler Warner Seth Young

Charlene Post

Maine Conservation Corps

(May – June)
Emily Wilmers – TL
Sophia Chrysostom
Kenny Duffield
Trinity Smyth
Zachary Wilson
Alex Ross
Lindsey May – STL
Michelle DiMeglio – STL

Maine Conservation Corps

Chimney Pond – Waterbars
Jevin Hoeper – TL
Cameron Perry
Anastasia Donner
Elizabeth Bach
Kyle Pounders
Chris Tinkham

Maine Conservation Corps

Mt. OJI Relocation Amy Freund – TL Matthew Bernier James Henderson Jon Hulbert Deidrah Stanchfield Victoria Uva

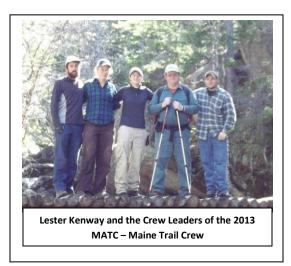
Tanglewood 4-H Camp

Travis Menig
Patrick Faulkingham
Avery Thomas
Marquis Newman
Steven Clarrage
Anna Ellis
Hannah Austin
Terra Brazier
Marrissa Ford

Notes:

1. A great many thanks are extended to Lester Kenway and the Maine Appalachian Trail Club's Maine Trail Crew. The Maine Appalachian Trail Club has been very supportive and creative in their approach to leveraging funds for a cost share agreement with the Park. This has supplemented work crews on trail restoration efforts on the AT within Baxter State Park for the past several seasons.

In a December 2013 communication meeting with MATC representatives, Lester expressed his and the MATC's commitment to continuing their support into the foreseeable future. Lester's



passion and dedication as an advocate for Baxter State Park's trails is an asset to the Park and the trail community. Thank you for your continued support, Lester!

2. Best wishes are extended out to Aaron Megquier, the newly appointed Executive Director of the Friends of Baxter State Park. He and several other members of FBSP joined us for our annual National Trails Day Trail Steward Training back in June of 2013.

Aaron has expressed his and the FBSP's commitment to continue supporting our Trail Maintenance program, through volunteerism and in-kind supplemental crew support. He and the Friends have continued a grant writing campaign to fund Maine Conservation Corps Field Teams, which are then donated to Baxter State Park's trail maintenance efforts. Their donations have significantly grown our trail maintenance program and have



contributed nearly thirty additional crew weeks over the course of the last four years.

Our own Trail Crew Internship Program continues to be the backbone of the Park's Trail Maintenance efforts. The annual recruitment phase of our operation proved to be quite competitive during the 2013 winter/spring season. Over fifty applications were screened and rated, prior to commencing with interviews. The 2013 recruitment effort

was also the first time we've used Skype as a means of interviewing off site candidates.

Fourteen interns joined us throughout our season. We had a full complement for our Summer Crew, with four of those interns staying on for the entire season. The Fall Crew

brought on five new members that trained and worked together for the rest of the season, while our four Full Season interns were combined to finish off the second half of their season together. All crews had great chemistry and camaraderie, worked well together and performed to the greatest of expectations. Thanks to each and every one of you!

4. Lastly, I would like to credit both Nick Huntington and Alan Watson for their exceptional service as Trail Crew Leaders in 2013. Both of these men brought great leadership and enthusiasm to their crews, enabling them to build fine teams and maintain high morale even in the most challenging of working conditions.

Both Alan and Nick possess an eye for detail that was most helpful for analyzing





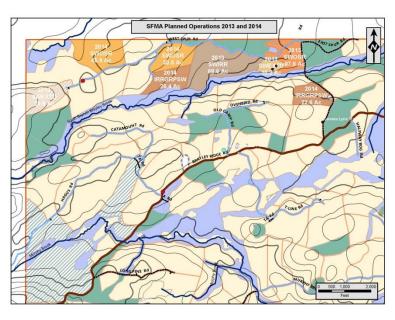
situations whether it is for planning, reporting or ensuring a seamless transition into the next work week. Thanks to both of you fine gentlemen for helping us achieve another safe and productive season and for helping to make our program a success.

C. SFMA 2013 Annual Report

2013/14 Silvicultural Operations

Summer 2013 Harvest Operations

The summer harvesting season began in the first week of June. The wet conditions presented challenges to the harvesting and trucking operations but a combination of appropriate site selections and diligence on the part of the crews made the best of a wet early summer. Conditions have improved significantly in July as drier weather has finally arrived. A variety of silvicultural systems have been employed thus far in the summer season. The map shows the locations of summer 2013 and planned winter 2013/2014 silvicultural operations.

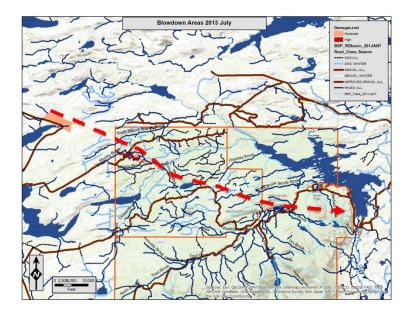


Map of summer 2013 operations and those planned for winter 2014.

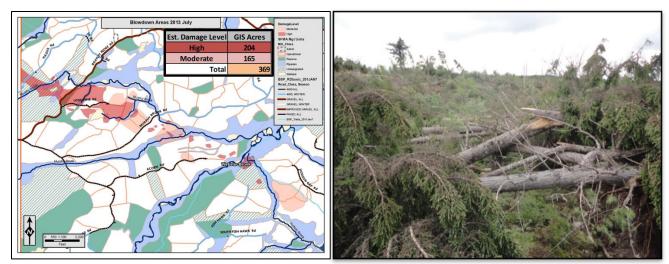
SFMA Tornado Event

On July 19, 2013 a significant wind storm rolled through the SFMA and the Trout Brook area. The resulting wind damage was impressive. Fortunately no staff, contractors, or visitors were in the impacted area. The Pelletier harvest crew was about a half mile away though and had to cut their way out of the SFMA road system that afternoon.

The storm may have briefly become a tornado but we are still awaiting an official confirmation of that fact from NWS in Caribou.



SFMA staff worked quickly to evaluate the damage area from the air and the ground, with the aid of chartered fixed wing aircraft and a MFS helicopter. A salvage operation



was initiated within two weeks of the event. Salvage focused on the operational management units with the most damage and the highest white pine component as the summer heat can degrade wood quality and value. The operation is utilizing the salvage protocol developed in 2009. There are numerous questions about long term monitoring as well as research opportunities this event presents us with. Lesser amounts of damage occurred out of the SFMA, primarily along the south side of Trout Brook mountain.

Additional information including videos of the area are on the BSP website. http://www.baxterstateparkauthority.com/more/meeting.htm

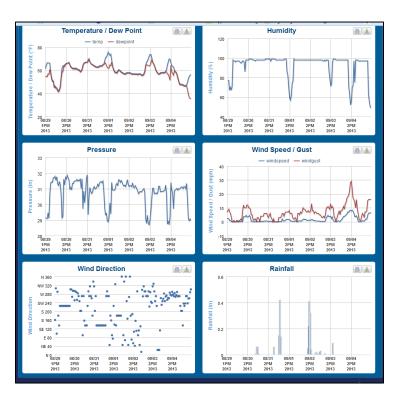
Fall 2013/Winter 2014 Harvest Operations

SFMA staff began to prepare for the winter harvest season prior to the blowdown event and had to re-organize the winter harvest schedule in the wake of the storm. Where treatments had been planned for the West Spur road system north of Brayley Brook, instead salvage operations continued through the winter aimed at units to the north of the Acorn Road as well as along the Hagus Road. By winter's end only scattered pockets of blowdown remained, mostly in riparian zones and other areas with operational constraints and complexities. Winter snows held off until late in the season enabling efficient harvest of downed timber in areas that required frozen ground to operate or haul wood from. A small area of downed timber of the Hudson Gap road was cleaned up in November/December 2013 aided by cold and dry conditions. This salvage removed downed trees from the Wadleigh Brook Trail that had rendered it completely impassible. A relocation effort for a more northerly portion of the trail and a part of the Freezeout Trail is planned for summer 2014.

^{**}See the tab for the SFMA and the Sept 27, 2013.

New MFS Weather Station in the SFMA

SFMA Staff working with MFS staff installed a new weather station in the SFMA at the Hemlock Camp. MFS is currently establishing a modern statewide network of remote weather stations that will provide real-time weather data to assist with wildfire monitoring and management. The SFMA camps provide an ideal site for one of these stations. In early August a team of MFS staff came to the SFMA to install the first of these new stations and to work out some of the bugs of installation and setup in preparation for installing many more stations across the State.



Forest Management Interns

The 2013 Forest Management Interns were a great asset assisting SFMA staff Dee

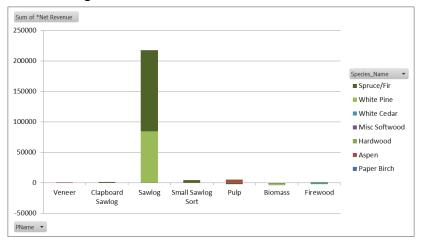


Brace and Kevin Osborne complete a variety of forestry related work. From forest inventory to ecological monitoring to harvest layout and road maintenance the interns have been a great addition to the SFMA field crew. Nick Huntington of Wayne, Maine came back to BSP this year after having been on the BSP trail crew during the 2012 season. Ryan O'Neill of Gardiner, Maine was a senior at Unity College in 2013.

Harvest Volumes, Revenues, and Costs.

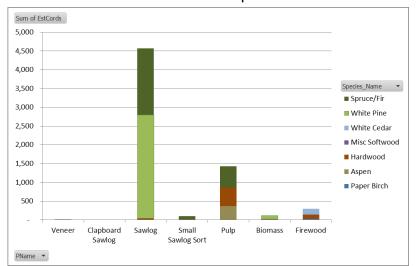
Harvest volumes and revenues were consistent with the 2012 Forest Management Plan with a target of about 6,000 cords covering about 350 acres. Markets continue to

rebound from the 2008-09 lows, but remain volatile, reflecting the global nature of the forest products industry. Spruce/fir sawlogs are the consistent bread winner of SFMA products representing over 80% of the total sawlog net revenues and over 60% of all net revenues. Due to the blowdown in areas heavily stocked with white



pine, the pine harvest was higher than in past years. However, despite the fact that pine sawlog volumes actually surpassed those of spruce/fir the low values of low grade pine logs dragged down the total revenues from pine logs. Appendix 2. shows the total harvest revenues and costs for each product category and species combination. Importantly the table shows the revenues for products sold on the open market and estimates of equivalent revenues for products consumed internally by the Park.

Revenues associated with SFMA products used within BSP are representative of what



those products would have generated had they been sold on the open market.

White pine and spruce clapboard and tone wood markets are lucrative on a percentage basis but represent only a small fraction of total product volumes and values.

Hardwood sawlog values continue to be profitable but the generally low quality of

SFMA hardwood logs results in only modest net revenues for those sawlog products.

The Great Northern Paper Mill in East Millinocket fell on hard times in 2013 and failed to pay many wood suppliers for loads delivered to the mill in spring 2013. BSP was one of these suppliers, and is still owed \$17,000 as of June 2014 (note this is not reflected in the Figure below as it occurred in the last fiscal year).

Financial Analysis Project

IN 2013 the SFMA contracted with well known forest economist, Lloyd Irland, to help us answer some basic questions about the BSP forest management program. The project started with an effort to answer a seemingly simple question that is often asked on tours - is the SFMA profitable? In some ways this is simple question requiring that we subtract our annual operating costs from our annual revenues to arrive at a net profit value. However, as staff dug into these elements it became clear that many layers of complexity exist and things are never as easy as we want them to be! To date there has not been a comprehensive financial analysis of the SFMA and everyone involved agrees it is long overdue. This project is on going with an expected completion date of September 2014.

Monitoring

It was another busy field season in summer/fall 2013. Despite a wet summer staff completed significant amounts of inventory work. This data is critical when modeling forest development over the length of an entire rotation as was done for the 2012 FMP. This system will continue to be refined to improve data collection efficiency and data analysis. A revision to the data collection schedule and data structure of the CFI dataset that was completed in 2012 was solidified with 2013 data collections following the new protocol.

Maintenance Operations

A regular season of maintenance was conducted on SFMA roads and infrastructure, mostly focused on the North end of the SFMA. This included grading of the Brayley

Ridge road as well as side roads including Webster Ledge Road. Ditching and culvert replacements were completed along Brayley Brook Road. A section of the Coffeelos road outside the SFMA was upgraded with a combination of ditching and the use of a rock grinder to process material from the road side into acceptable surfacing material. A mile of road was treated with this technique the cost of which was jointly paid for by BPL and SFMA. Efforts to get a year ahead of maintenance operations will have succeeded by 2014 enabling harvesting and trucking to happen a vear after significant road work to allow roads to harden before hauling.



UNFK Forestry Summer Camp 2013

Demonstration, Education, and Research

Numerous field tours were conducted in 2013, with most clustered in the early fall season. These tours involved diverse audiences including student groups, college courses, and forestry professionals.

In addition to field tours SFMA staff updated the SFMA website and greatly expanded the education elements it contains. Readers of this report are invited to review the site and make suggestions.

2013 Field Tours Included:

- Sterling College, September 2013.
- SFMA Advisory Committee Fall Field Tour, September 2013.
- UMaine Fort Kent Silviculture Course, August 2013.
- UMaine Fort Kent Environmental Studies Course, October 2013.
- BSP Fall Trail Crew Tour, October 2013.
- Austin Cary Forest, Friends of Baxter State Park, November 2013

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Research: Spruce Grouse

U Maine professor Dan Harrison and graduate student Steve Dunham conducted research on Spruce Grouse populations in the SFMA. Two study sites were chosen within the Park in addition to sites already established on industry lands outside the Park. A progress report on this project can be found in the appendix.

Research: Forest Birds

U Maine professor Cynthia Loftin and graduate student Brian Rolek proposed to establish study areas in the Park's SFMA to document habitat associations of birds found in a coniferous Acadian forest. Two mature softwood stands in the SFMA were chosen as study sites. Discussion of the study and a progress report for 2013 can be found in the SFMA portion of the Operational Report. Progress summaries and reports from this study will also be archived in the BSP Research Database.

Research: Biomass Sampling

Jereme Frank, a research assistant at U Maine, working with Aaron Weiskittel of U Maine, began a study field work in the SFMA aimed at improving the accuracy of forest modeling using FIA plots. A summary of progress made during the 2013 field season can be found in the SFMA Appendix.

Research: BSP Flora Survey

Glen Mittlehouser completed a 3 day whirlwind tour of the SFMA as part of the BSP flora project. His visit included a productive stop in the Wadleigh bog area exploring a unique peatland community.

SFMA Advisory

The committee met twice during the year, with an indoor session in April and field tour in September. The spring meeting focused on varied subjects including riparian

management policy, outreach opportunities, and pre-commercial thinning. The summer blowdown event formed the basis for the fall field tour. The group visited several sites in the blow down including areas salvaged, excluded from salvaged and slated for winter salvage operations.

Certification

Forest Stewardship Council Audit 2013

The SFMA has been Forest Stewardship Council (FSC) certified since 2001. Every five

years a comprehensive audit is conducted of the management program. In years between these full audits an annual audit is conducted. This year was the second annual audit since the 2011 full audit. Mike Dann, auditor for Scientific Certification Systems, the certification company that BSP has contracted to conduct the FSC audits, returned again this year. The audit covered several areas of the FSC principles including ecological monitoring, invasive species, and forest management



planning. The audit went very well, with only some minor issues requiring attention over the next year.

Appendix

1. FIA Biomass Sampling Effort Update, 2013

The Forest Inventory and Analysis (FIA) biomass team destructively sampled a total of six trees from the SFMA site just west of Lost Pond Road and south of Wadleigh Mountain Road (see chart below) identified with Rick Morrill, north northeast of Lost Pond. These are summarized by diameter and species in the table below. In the spring, preferably before leaf-on, as weather permits, we hope to return to the SFMA to continue sampling.

Species	DBH
	(inches)
Red maple	14.6
Red maple	19.2
Red maple	9.1
Sugar maple	7.8
Yellow birch	7.1
Eastern hophornbeam	5.0

2013/14 Harv	est Statisics	Version										
		5/23/2014										
						C			DCD Lateral		Percent Net	Percent
						Service			BSP Internal	*** . 5	Revenue of	Service Cost
	Species Name	` ′	` '	Cords	Gross Revenue	Payment	Bridge Tolls	Road Tolls	Use	*Net Revenue		of Gross Rev
Veneer	Aspen	70,780	6,525	16.5	\$ 2,446.88	\$1,476.47	\$7.08	\$89.54		\$873.79	36%	64%
	Spruce/Fir	448,220	0.262	105.5	\$ 14,567.15	\$9,712.93	\$44.82	\$640.95		\$4,168.45	29%	71%
Sawlog	Hardwood	229,940	9,263 900	46.0 2.0		\$4,679.28 \$164.48	\$22.99 \$0.85	\$286.70 \$10.75		\$11.03 \$138.92	0% 44%	100% 56%
Sawlog	Spruce/Fir	8,500		1,775.7		\$164.48		\$10.75	<u> </u>	\$138.92		55%
Sawlog Sawlog	Spruce/Fir	7,546,760	814,533	2,751.7	\$ 306,201.24 \$ 393,324.22		\$754.68	\$10,720.65		\$133,079.48	43% 22%	78%
Clapboard Sawlog	White Pine	11,832,376 44,800	1,172,718 4,444	10.5		\$291,550.60 \$911.68	\$1,183.24 \$4.48	\$15,964.63		\$1,245.47	56%	78% 44%
Ciappoard Sawlog	Spruce/Fil	44,800	4,444	10.5	\$ 2,225.09	\$911.08	\$4.48	\$64.06	IN	\$1,245.47	50%	44%
Total Sawlo	og Values	20.181.376	2.008.383	4.707.9	\$ 724,080.17	\$ 470.141.87	\$ 2.018.14	\$ 27.777.29		\$224.142.87	4.13%	69.04%
Pulp	Aspen	1,595,040	2,008,383	370.9		\$32,459.06	\$159.50		N	\$4,617.64	12%	88%
Pulp	Hardwood	2,443,970	0	488.8	\$ 52,027.61	\$49,306.92	\$100.85	\$1,751.08		\$868.76	2%	98%
Pulp	Spruce/Fir	2,446,900	0	575.7	\$ 62,395.95	\$60,733.07	\$244.69	\$3,487.01		(\$2,068.81)	-3%	103%
Biomass	Misc Softwood	92,610	0	21.4	\$ 1,203.93	\$1,884.61	\$9.26			(\$812.19)	-67%	167%
Biomass	White Cedar	10,650	0	3.0		\$216.73	\$1.07	\$14.06		(\$93.40)	-67%	167%
Biomass	White Pine	403,610	0	93.9		\$8,051.35	\$40.36	,		(\$3,368.72)	-64%	164%
Total Pulp		6,992,780	J	1,553.8	\$ 160,091.35	\$ 152,651.74	\$ 555.73	\$ 7,740.60	, v	(\$856.73)	0.11%	100.54%
Firewood	Hardwood	575,300	0	115.1	\$ 13,346.70	\$11,584.16	\$57.53	\$755.23	Y	\$949.79	7%	93%
Firewood	Paper Birch	140.000	0	31.1	\$ 3,239.60	\$2,709.00	\$14.00	\$193.73		\$322.87	10%	90%
Firewood	White Cedar	543,000	0	155.1	\$ 9,307.02	\$10,899.05	\$54.30	\$704.22		(\$2,350.55)	-25%	125%
		3 13,000			7 0,000.102	+ = 0,000 100	70	710112		(+=,====)		
Total Misc Pro	duct Values	1,258,300		301.3	\$ 25,893.32	\$ 25,192.21	\$ 125.83	\$ 1,653.18		(\$1,077.89)	-3%	104%
Total All Prod	duct Values	28,432,456	2,008,383	6,563.0	\$ 910,064.84	\$ 647,985.82	\$ 2,699.70	\$ 37,171.07		\$222,208.25	2%	76%
Total All Product	Values less BSP	28,432,456	2,008,383	6,563	\$ 884,171.52	\$ 647,985.82	\$ 2,699.70	\$ 37,171.07		\$197,392.83	6%	78%

D. Information/Education Division 2013

Jean Hoekwater, Naturalist
Marcia Williamson, Interpretive Specialist
Morgan Taylor, Interpretive Specialist
Angie Anders, Kaiti Davis and Jennifer Wachtl, Wilderness Educators
Bob Gonya, Brian Johnston, Visitor Center Customer Service Representatives
Joseph Brewer, Appalachian Trail Steward



2013 Summary

In addition to the usual full calendar, it was a year of transition in the Information/Education division, initiated on February 10 when BSP Interpretive Specialist Marcia Williamson announced her decision to retire from state service effective May 11, 2013. Beginning in 2007



Marcia Williamson on Saddle Trail

as the Interpretive Specialist, Marcia has refined the recruiting and hiring process for our summer positions, as well as assisting in the transition to using contracts instead of the Student Conservation Association or Maine Conservation Corps, to fill our vacancies. She has also been a very strong and talented advocate for infusing all our Park information with the principles of Leave No Trace. Her experience and suggestions were critical pieces in the creation of the pilot issue of the Park newspaper, *Wildnotes*, and subsequent issues were very dependent upon her contributions. Marcia spent all the spring of 2013 organizing files and records in preparation for her departure, with characteristic

thoroughness to ensure the wellbeing and continuity of our seasonal programs.

The Interpretive Specialist job posting attracted many impressively qualified applicants, including several former Wilderness Educators that had worked with our program! Following interviews on April 22 and 23, Morgan Taylor was hired. She stepped into the position on May 14, 2013, just days before our two Wilderness Educators arrived to begin their six month seasons with us! Morgan, a 6 month Wilderness Educator for Baxter State Park in 2011, graduated from U Maine with a BS in Wildlife Ecology. Her previous work experience includes extensive shore bird monitoring, including Piping Plovers, for the U.S. Fish & Wildlife Service at Chincoteague National Wildlife Refuge.

We also experienced a improvement in the housing for our seasonal interns. Lower Togue camp received a facelift and renovation including a septic system, 3 separate sleeping quarters, and inside shower/toilet. This makes the facility better able to accommodate mixed crews and gives people a place to keep their belongings safe while away during mountain patrol weeks.

2013 Programs Evening Programs in the Park:

7/10 – Kidney Pond - How Did That Very Big Rock ("The Kidney Stone") Get Here and Other Glacial Mysteries! – Robert Johnston, Geologist with the Maine Geological Survey explained the mysteries of erratics, eskers and glacial deposits, along with the forces that created Katahdin's present day shape.

7/17 – Kidney Pond - "Lost on a Mountain in Maine" – One of our most popular evening programs – Donn Fendler provided a personal account of being lost for nine days in the North Maine Woods 74 years ago.

7/22-26 – Kidney Pond - View Sunspots Through a Solar Telescope –Doug Rich, Supernova Hunter and local Astronomer, was available to campers to view the nearest star with a solar telescope and draw a sunspot. Unfortunately due to weather this program was cancelled.

7/24 – South Branch Pond - Stewardship of Baxter State Park: Have you thought about helping to protect and preserve Baxter State Park? –Campground Ranger Gabe Williamson was joined by campers for an engaging evening where they learned what they could do to be a steward of Governor Baxter's gift to all of us!

7/25 – Katahdin Stream- Wilderness on Its Own Terms – Fatalities in the Park – Wilderness offers challenge, beauty and also risks. The Park Director, Jensen Bissell, recounted the history of fatalities in Baxter State Park and their causes, dating back to the late 1800's.

7/31– Daicey Pond - New Trails in the Park!?! Campers learned about the trails we take for granted as we traverse the Park, as well as future trail plans from Park Director, Jensen Bissell.

8/7 – Daicey Pond - Did you know there was Timber Harvesting in Baxter State Park? Resource Manager, Rick Morrill spoke with folks about timber harvesting in the Park and the nearly 30,000 acres known as the Scientific Forest Management Area.

8/14 – Kidney Pond - "Hoo" Who Comes Out At Night? – The Park Naturalist, Jean



Joe Wiegand, Teddy Roosevelt reprisor, spins his magic on a summer evening at Kidney Pond lodge.

Hoekwater was joined by visitors for a night of exploration and learning about the nocturnal creatures in the Park by using their senses- sight, hearing, and smell.

8/15 – Roaring Brook- Wilderness On Its Own Terms – Fatalities in the Park – Wilderness offers challenge, beauty and also risks. The Park Director, Jensen Bissell, recounted the history of fatalities in Baxter State Park and their causes, dating back to the late 1800's.

8/19-23 – Kidney Pond - View Sunspots Through a Solar Telescope – Doug Rich, Supernova Hunter and local Astronomer, was available to campers to view the nearest star with a solar telescope and draw a sunspot. Unfortunately due to weather this program was cancelled.

8/20 – Daicey Pond – **Visiting Artist Open Studio** – Baxter State Park's 2013 Visiting Artist, Teddi-Jann Covell offered an opportunity to paint with an artist, learning landscape drawing and painting techniques, using the ever changing beauty of Katahdin on Daicey Pond to stimulate creativity.

8/21 - Daicey Pond - Learning from the "Masters",

Seeing Baxter State Park like Frederic Church and others. –Teddi-Jann Covell, the 2013 Baxter State Park Visiting Artist, spoke of the many masters that came to this area for artistic inspiration. Many of her complete paintings from her time in the Park were on hand for viewing.

8/28-9/1 – Kidney Pond - **Star Magic** – Doug Rich, Supernova Hunter and local Astronomer, was available to help find constellations, major stars and share star trivia. Unfortunately due to weather this program was cancelled.

9/4– South Branch Pond- A Volcano in Baxter State Park? – Robert Johnston, Geologist with the Maine Geological Survey taught campers what the rocks and landscape around South Branch Pond tell us about the history of this area

9/11 – South Branch Pond**–Stories and Wild Tales of the Katahdin Region** - Long-time Park trail maintainer and author John Neff told stories and wild tales of those who visited here and what events took place before these lands became Baxter State Park.

9/18 – Kidney Pond – **Theodore Roosevelt's Connection to Katahdin and Conservation**-Joe Wiegand provided an amazing, poignant and humorous presentation of T.R. By evening's end, campers and visitors felt as though they'd had a fireside chat with the "Rough Rider" himself.

Children's Programs in the Park:

7/6 – Daicey Pond – "Beautiful Bug Eating BATS" – Kids got BATTY as this program! They learned all about the secret life of bats, the foods they eat, and made bat kites!

7/13 – Kidney Pond – "**Poet-Tree**" – At this program kids went on a nature walk, learned to identify their favorite trees, learned about how trees grow and why we, and other critters, need them. Then they wrote poems about the trees they liked best. Poetry is fun, but even *more* fun is Poet-Tree!

7/20 – South Branch Pond– "What's that SPLAT? and Creepy Crawley Walk" –What was that? It was so small and moved so fast... Where was it going? What was it carrying? Do you ever wonder about those itsy bitsy creepy crawlies? At this program children got a chance to take a closer look at the crazy world at their feet!

7/25 – Kidney Pond – "**Light up the Night!**" –It's officially summer when the fireflies start lighting up the sky!

Children adorned in their jammies enjoyed a reading of <u>The Lonely Firefly</u>. Afterwards, they made their own fireflies that lit their way into the summer night!

7/27— Daicey Pond— "**Project Pollinate**" –Why do flowers have such different smells and different colors? And whose job is it to pollinate them all? Adults and children learned about bees, moths, birds, and bugs during Project Pollinate. They then got to make their own flowers and learn what would pollinate them!

- 7/31– Daicey Pond– "Lookin' Out for LEECHES"– Children and adults got to see leeches up close and make a terrifically terrifying leech mask... In the process of having fun they learned about how, and why, leeches do what they do.
- 8/3 Kidney Pond– "Who's Poo Are You?" Children at this program became "scat" detectives! They learned what some of the animals in Baxter State Park eat and went on a "SCATvenger" hunt!
- 8/10 South Branch Pond "**Bird Nerd**"– Using their nerdy bird skills kids made their own specialized bird binoculars! Then they used them to identify some of the Park's most well known birds!
- 8/17 Daicey Pond "It's Tough Being a TREE" What's it like being a tree? How do they get so big, when they start out so small? Kids learned about the life of trees from seed to snag and everything in between!
- 8/24 Kidney Pond "**Light up the Night!**" It's officially summer when the fireflies start lighting up the sky! Children adorned in their jammies enjoyed a reading of <u>The Lonely Firefly</u>. Afterwards, they made their own fireflies that lit their way into the summer night!
- 8/31 Daicey Pond "Weather You like It or Not" Did you ever wonder why it rains? Or what happens to all of those puddles on the ground. Children learned about what causes some of the crazy weather we have here in the park, and how it is important to different plants and animals.

Children's Programs Millinocket Memorial Library



Thinking like a moose, Millinocket Library program

- 7/3 Whose Woods ARE These? Have you ever seen paw prints and piles of droppings, and wondered who left them? Children learned how to decode the clues that animals leave behind. They got the chance to look at fake scat and make plaster molds of common Maine animal tracks.
- 8/7 **Critter Catchers**–Children made critter catcher fortune tellers and learned about their favorite animals in the Park.
- 8/28 **–Park Protectors** At this program, children came and learned how they could become a park protector. By playing fun games, they learned how to enjoy the outdoors, and still LEAVE NO TRACE!
- 9/11 **Color Crazy! –** Children learned about why some animals seem color crazy! They made their own animals and learned why certain animals are so colorful.... Or not!
- 9/18 **Don't Moose-em!** It's a bear...It's a deer...No it's a Moose! Kids came and learned about one of Baxter Park's biggest residents. They made their own binoculars and discovered the best way to become a moose watcher.



Jennifer Wachtl, owl pellet program, Millinocket Library program

10/3 **-Whooo Did You EAT, Owl?-**Sometimes you can hear owls, but they are so hard to see, right? Children got to take a closer look at one of the best ways to learn about owls... pellets! They dissected REAL owl pellets and pieced their dinner puzzles back together!

10/16 – Weather You Like it or Not – Did you ever wonder why it rains? Or what happens to all of those puddles on the ground. Children learned about what causes some of the crazy weather we have here in the park, and how it is important to different plants and animals.

Outreach Programs

Records for outreach programs are partial this year.

1/3 - Patten Men's Club

1/28 - U Maine Career Fair, Orono

3/13 - U Maine Machias, Wilderness Management overview

3/18 - Hampden Elementary

3/26 - Katahdin Areas Partnership Tourism training

5/8 - Orrington Center Drive School, Orientation to Hiking in Baxter State Park

5/18- Bangor area Cub Scouts-Campsite visit, Foster Field- LNT and Endangered Species in Baxter State Park

5/19 – Bigelow Lodge- Orientation to Baxter for 2013 MATC Ridgerunners/Caretakers

7/5 - Camp Kieve Park Orientation and LNT

9/13 – Trails End Festival- short walk along the AT near Abol information kiosk

11/12 U Maine Machias Wilderness Interpretation

11/8 - U Maine Fort Kent, Protecting Park Resources



K. Davis, J. Brewer, M. Taylor, J. Wachtl, Trails End Festival, Sept.2013, Millinocket Town Park

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2013 Information / Education Projects

Park Newspaper

Once again, the Park newspaper *Wildnotes* was used to convey the usual operational information to visitors as well as some timely themes. A fair amount of space was devoted to explaining the wilderness nature of the Park and what that means to the average visitor. Black bear awareness and natural history was a focus in this issue, including an in depth explanation of using bear canisters and bear hangs when camping. The contributions of former Park Supervisor Helon Taylor were highlighted. A full page was devoted to explaining the natural history of the alpine zone on Katahdin with information on how visitors can help protect this special area. We continue to receive helpful feedback and suggestions from Park employees and visitors as we strive to keep this information piece relevant and useful.

Campsite Visits

When on their Alpine Steward weeks, our Wilderness Educators initiated contact with as many



Waterfall by 2013 Visiting Artist Teddi-Jann Covell

organized groups camping at Chimney Pond as possible, in order to share LNT information and answer questions on Park policies. Morning talks with hikers arriving at Chimney Pond and other Katahdin trailheads also gave the Wilderness Educators one final chance to remind large hiking groups of our new regulation on day hike group size and explain choices they could make to come into compliance. These efforts were received in a cooperative spirit and reduced the number of large groups encountered above treeline and at the summit.

The Summit Project

In early fall of 2013, Major Dave Cote contacted Park Director Jensen Bissell regarding a commemorative hiking event, "The Summit Project", in the planning stages for Memorial Day 2014. The original premise was that each hiker would be carrying a memorial stone for an

individual veteran and the stones would be left at Baxter Peak on Katahdin. After consulting with the Baxter State Park Authority, Director Bissell sent a letter explaining that leaving memorials or objects at the summit is not permissible or within the mission of the Park. Major Cote adjusted his goals and expressed interest in continuing to work with the Park on this special event through the winter of 2013-2014. In September, Director Bissell assigned Interpretive Specialist Morgan Taylor to be the agency liaison for coordinators of this event and she began email correspondence with Major Cote.

In the course of communicating with Major Cote, Morgan took time to explain many of the Park's policies, including, vehicle size and parking restrictions, group day hike size regulation and more. After these conversations, Major Cote reduced the number of hikers from 50 to 36, split up into groups of 12 to comply with our day hike group size regulation. The three groups will have staggered starts and descents. The commemorative stones will be hiked up and back down the mountain instead of being left on the summit. This allows for the stones to be available for other events. Some of the stones carried up Katahdin will have previously been on Kilimanjaro, Everest and carried during the Maine's Army National Guard marathon march.

Morgan has also been educating Major Cote about the physical demands of the hike and how to portray this to emotionally motivated but not necessarily experienced hike participants. She has helped him develop a signup sheet to determine the hikers' physical abilities and preparedness as well as giving him guidelines in describing footwear and pack essentials for the hike. They will be using the Abol Trail so Morgan directed them to information provided on the Park website about the nature of Abol Trail and the range of weather and trail conditions that can be expected in late May. Park staff will give a pre-hike orientation the morning of the hike, covering Park rules and regulations as well as human waste disposal. At the close of 2013, Major Cote mentioned some of the publicity he expects to generate around this symbolic gesture. In 2014, Morgan will work with Major Cote to make sure publicity before and during the event complies with the BSP Media Policy. Motivation is high for things to go smoothly because Major Cote would like to see this become a yearly event.

Volunteers

BSP volunteer Laurie Rich, and seasonal BSP employees Diane Freelove & Katrina Kinkead organized a "collating blitz" in the spring to copy and put together 1000 (!) Jr Ranger booklets to supply Park duty stations for the 2013 season. This is a case of "many hands make light work", not to mention saving Park funds that would otherwise be spent for commercial printing to accomplish this task during our busy spring season. We are so thankful for the cheerful and productive support of these individuals!

Archiving

The I & E division was fortunate to have assistance provided January-March 2013 to start archiving a backlog of photos and documents that have been accumulating over the years, coming to rest in the



New signs posted to protect the Sedge Meadow on the Tableland



Hal Dyer on moose yard survey in 1930's Baxter State Park Photo Archives

Information/Education division! Office Assistant II Marybeth Varney used her organizational experience and background in library science to organize, scan and archive a significant portion of the many photos and documents into Past Perfect, an archival database. Marybeth also sent out letters to individuals who have donated photos over the decades, for the purpose of securing appropriate letters of permission and conditions of use for our growing stock of donated images.

Poetry Contest

With the encouragement of Interpretive Specialist Morgan Taylor, Wilderness Educator Kaiti Davis initiated a Baxter State Park Poetry contest during the summer of 2013. The submission deadline was October 18, 2013 with the winner's poem to be published in the 2014 issue of the Park newspaper, Wildnotes. Interest peaked in the fall but from an unexpected source. The poetry contest was set up for youth in two age categories: to 6-10 years old and 11-16 years old. However, in the process, we learned there is a strong contingent of adult poets, many of them local residents, anxious for us to read their poems and even listen to them recite their pieces for us! At our table at the Trail's End Festival in downtown Millinocket we were visited throughout the day by adults eager to enter the contest. Accordingly, in the 2014 issue of Wildnotes, we will introduce the idea of a poetry contest for contestants in three age categories: 6-10 years of age, 11-16 years of age and 17 and older. The 2014 Wildnotes will also feature the winning poem from 2013, submitted by 11 year old Maggie, of Millinocket!

2013 Northeast Alpine Managers Gathering

Although not technically a project for our division, the 2013 Alpine Managers' Gathering, held at Sargent Camp in New Hampshire, was an important event for Morgan and Jean. It was the eighth and largest gathering so far, with 116 attendees. This event is held every other year and has been hosted multiple times by the Green Mountain Club, the AMC as well as Acadia and now Antioch New England. It is an excellent chance for landowners, agencies and those working in or with the alpine zones of the northeast to meet and share information and approaches. The event is funded in part every year by the Waterman Fund, a non-profit devoted to protecting the wild qualities of the alpine zones in the Northeast. Morgan and Jean were excited to be able to develop contacts on behalf of the Park, and to hear panel presentations, particularly those related to alpine steward work. We stayed for a day hike of Mt. Monadnock and learned about the policies and challenges of managing this extremely popular New England day hike.

We were also able to learn from the group working on social media policies for the ADK. We picked up lots of techniques from them and will be maintaining contact as we work to develop policies and presence on social media for Baxter. Finally, during their meeting on the same weekend, the Waterman Fund board proposed Baxter State Park as the host for the 2015 Northeast Alpine Managers' Gathering! We will hope to learn from organizers of previous gatherings and do our best to pull together an event that benefits the region and especially our alpine zones!

Media Projects in 2013

The BSP Media Policy was further refined and focused this year to address the aspects of media projects most problematic for Park managers. These are most typically film projects, especially larger and/or commercial efforts. In keeping with the times, 2013 included the first time we were approached with a request to use a remote controlled mini-helicopter (drone) to capture commercial footage featuring a hiker along Knife Edge on Katahdin (denied). In 2013 we also cooperated with an individual attempting to film use of specialized climbing gear on a winter expedition up Katahdin, fielded requests to film the climbing log in the Chimney Pond ranger office (detailed footage denied) and approved the work of a pair of newlywed hikers producing a small scale documentary on their 2013 Appalachian Trail Thru-Hike "(Hitched

Hike"). Over the past few years, we have gradually refined the Baxter State Park Media Policy and developed a partially standardized Memorandum of Agreement (MOA) for media projects, aimed at addressing some of the most likely and significant impacts posed based on our experience and mission. The Baxter State Park Authority has also approved a modest fee structure associated with media projects, based on the number of days the project will be active in the Park.

With these recent learning experiences under our belt, we were able to craft an MOA and have a positive outcome with an ambitious media proposal, submitted by Rabbit Content. Rabbit Content is a production company contracted by Nature Valley granola bars to film scenes in and around Baxter State Park for a television ad campaign. Following initial conversations with the Park, the applicant contacted nearby New England Outdoors as a source of registered Maine Guides and equipment needed for their explorations and filming sessions. The footage consisted of vignettes filmed in the woods and along ponds and streams, featuring an array of character actors and settings, some inside the Park and some elsewhere in the Katahdin region. Per agreement, locations were not identified and all requests of the Park were met with a professional and helpful attitude. Products from the filming can be viewed on a website as well as seen in ad spots on prime time TV.

For a list of media projects approved in 2013, see the Appendix for this section.

Seasonal Staff

Wilderness Educators

Each season, we have a budget for 60 weeks of intern positions, configured into Wilderness



Jennifer Wachtl summer 2013

Educator positions. For several seasons depending on available, qualified applicants, we have hired and trained one 6- month position and one 3-month position in May. The 3-month position leaves in early August, making way for two additional 3- month positions hired and trained in late July, to augment the continuing 6-month position. Previously the challenge of training two new 3- month positions in late July has been significant, given the demands for I & E at our busiest time of the summer. While we need fresh ideas and assistance by August, especially for physically demanding Alpine Steward patrols, we were always reluctant to send our first 12 week position down the road just when they are really starting to find ways to contribute and know the land base. In 2013, we decided to change the configuration of the 60 weeks, hiring two 6-month positions and supplementing them with a single 3- month position in late summer. Same total of 60 weeks, but different balance of work/training time within the total number of weeks. Unfortunately, the retirement of Marcia Williamson in May 2013 prevented her from assessing the benefits/drawbacks of this,

compared to our previous configuration. The change did have the positive result of providing two experienced Wilderness Educators to assist us in guiding the new 3-month person in late summer, while also giving us the necessary additional person in the rotation of Alpine Steward

patrols. Interpretive Specialist Morgan Taylor, an alumni Wilderness Educator of the summer of 2011, acknowledged the benefits of this configuration so we will be hiring for a similar configuration in 2014.

Jennifer Wachtl was selected as a 2013 six-month Wilderness Educator Intern from May 19 through November 2. She graduated from the University of Maine with a degree in Parks, Recreation and Tourism. Jennifer brought her experience of hiking in the Park, working for the National Park Service, training in Leave No Trace, membership in the National Association of Interpreters and her experience teaching youth about the natural environment through the Maine Outdoor Education Program. This past season she coordinated the Loon Count with the Maine Audubon, planned and facilitated 7 fantastic children's programs, and had 52 days on Mountain Patrol! We are fortunate to have Jennifer returning as a Wilderness Educator for the 2014 season.



Kaiti Davis, summer 2013

Kaiti Davis was also selected as a 2013 six-month Wilderness Educator Intern from May 19 through November 2. She graduated from Appalachian State University in North Carolina with a degree in Recreation Management with a concentration in Outdoor Experiential Education and a minor in Biology. Kaiti has considerable relevant public relations experience, having worked in the Visitor Center at Mt. Jefferson State Natural Area in North Carolina. She also created programs about the local flora and fauna in her area. This season Kaiti created and facilitated the first annual Baxter State Park Poetry Contest, 6 exciting children's programs, and had 47 days on Mountain Patrol! Kaiti is currently working as an Environmental Educator at Rock Eagle 4-H Center in Eatonton, Georgia.

Angie Anders was selected as 2013 three-month Wilderness Educator Intern from July 28 through October 19. She graduated from Endicott College in Beverly, MA

with a degree in Environmental Science. Angle brought her experience working with children in an outdoor setting and leading youth outings for the Appalachian Mountain Club. Through the National Outdoor Leadership School (NOLS), she spent a semester in New Zealand backpacking, kayaking, as well as learning and practicing Leave No Trace skills. Angle hit the



Angie Anders, summer 2013 1

ground running when she arrived at the Park. In less than 3 months she created and facilitated 4 children's programs, and had 34 days on Mountain Patrol! Angle is currently working as an Environmental Educator on Orcas Island in the San Juan Islands.

Togue Pond Visitor Center

2013 marked the fourth season for Brian Johnston and second season for Bob Gonya welcoming and guiding visitors entering Baxter State Park. This year, the Togue Pond Visitor Center tallied 19,915 visitors stopping in,

including 2,297 children. The Visitor Center has been an active sales outlet for maps over the last several seasons, helping hikers and campers fulfill the first principle of Leave No Trace: "Plan Ahead and Prepare!" In 2013, VC sales amounted to \$10,417.

2013 AT Steward and AT News

Our 2013 Appalachian Trail Steward, Joseph Brewer, was a thru-hiker in 2012. In fact, he was inspired to apply for a patrol job on the A.T. when he met our 2012 A.T. Steward, Jonathan Lemberg! Hikers encountered Jonathan along the trail in three iconic trail locations, Springer Mountain, GA, Mount Rogers, VA and finally, Baxter State Park, and for some, like Joe, this made an impression!

Along with his thru hiker experience, Joe's degree in Natural Resources: Ecosystem Assessment from North Carolina University enhanced his ability to communicate Park policies for hikers in the alpine zone with greater clarity and effectiveness to his audience. He did an excellent job for us and made many thoughtful suggestions to increase the effectiveness of this position. Joe was invited to return in 2014 but has decided to hike the Pacific Crest Trail so we wish him Happy Trails next season!

Bigelow Training

Maine Appalachian Trail Club Ridge Runners/Caretaker training was held at Bigelow Lodge on May 19, 2013. This year, it was a quick trip south for Park Naturalist Jean Hoekwater as the new Interpretive Specialist Morgan Taylor had arrived only the day before to start her new year round job! Time with the Ridge Runners/Caretakers was spent introducing them to Park operational policies relevant to thru hikers and sharing information about species found in alpine and subalpine areas as well as an overview of woodland plants to enable MATC Ridgerunners/Caretakers to confidently answer hikers' questions.

Research/ Special Permits

2013 Spring Research Committee Meeting

The committee met on March 28 in a room of the Public Safety Building in Augusta. The agenda can be viewed in the Appendix to this section of the Operational Report. In addition to proposed studies, the committee welcomed four new candidates for committee membership: Don Cameron, Maine Natural Areas Program, Charlene Donahue, Maine Forest Service, Cynthia Loftin, U Maine, and Paula Work, Maine State Museum. These individuals were willing and able to accept the Park's invitation to serve on this committee. Their names were subsequently submitted to the BSP Authority for consideration and approval at the May Authority meeting. All were approved. Studies discussed at the spring meeting were:

- "Inventory of the Ants of Baxter State Park with a Focus on Communities Above Treeline"
- "The Effects of Forest Management Practices in the Acadian Coniferous Northern Hardwood Forests of Maine on Forest Bird Communities"
- "An Improved Volume, Biomass, and Carbon Database for U.S. Tree Species"
- "Patch Occupancy, Habitat Use, and Population Performance of Spruce Grouse in Commercially Managed Conifer Stands"

• "Inventorying Katahdin for Relict Species of Arctic Ground Beetles (Coleoptera: Carabidae)

See comments below on individual 2013 research projects in the Park.

2013 Research Projects in Baxter State Park

Ants of South Branch Region

Aaron Ellison, of Harvard University, submitted a proposal to inventory ant species on Katahdin in 2013. However, his proposal ran into logistical difficulties. He proposed to work above treeline on dates when space was not available in the Chimney Crew Camp. The timing of the collecting was designed to occur just prior to a course Ellison teaches on ant identification at Eagle Hill Institute in Maine, allowing those students at Eagle Hill to assist in



The 2013 Ant Survey Team

rapid identification and processing of specimens collected the previous week. This timing required Aaron to move his focus to the South Branch region of the Park, including Traveler Loop trail and around the campground. The survey team recruited by Ellison camped at South Branch Pond and included MFS entomologist Charlene Donahue, Dave Bourque, Dana Michaud, Kyle Bradford and Kaitlyn O'Donnell in addition to Aaron Ellison. The ant survey team found 27 species during their surveys, including 13 new to Piscataquis County and one species, Formica adamsi, new to all of New England!

A report and summary of the collecting results as well as location of all collections, was submitted by Aaron Ellison and is available for viewing in the Appendix to this section of the Operational Report and archived in the BSP Research Database.



Formica adamsi collected just west of North Traveler. Voucher specimen at MCZ; photo: Gary Alpert / MCZ.

Beetles

Dr. Robert Nelson of Colby College submitted a proposal to hand search for ground beetles on the alpine zone on Katahdin during the summer of 2013. His focus was ten key Arctic relict species of Carabidae and he was specifically interested in location on Saddle Slide. Only one of the target species was recovered as a living individual, the species *Cymindis unicolor*. An additional 13 species were added to the known fauna of the Park over the four days of Dr. Nelson's survey, bringing the total to 84 species of Carabids. Wilderness Educator Jennifer Wachtl

accompanied Dr. Nelson on the day of his Saddle Slide survey to learn more about the invertebrate life of the alpine zone. A full copy of the report is in the Appendix to this section of the Operational Report and archived in the BSP Research Database.

Spruce Grouse

In association with U Maine professor Dan Harrison, graduate student Steve Dunham applied to research Spruce Grouse in the Park's SFMA. Working with BSP Resource Manager Richard Morrill, study sites were chosen within the Park in addition to sites already established on commercially managed lands outside the Park. A progress report and discussion of this study can be found in the SFMA section of this Operational Report. Progress and final reports of this study will be archived in the BSP Research Database.

Forest Birds

In association with U Maine professor Cynthia Loftin, graduate student Brian Rolek proposed to establish study areas the Park's SFMA to document habitat associations of birds found in coniferous Acadian forest. Two mature softwood stands in the Park's SFMA were chosen study sites. Discussion of the study and a progress report for 2013 can be found in SFMA portion of the Operational Report. Progress summaries and reports from this study will also be archived in the BSP Research Database.



Spruce Grouse, Lee Cordner

Biomass Sampling

Jereme Frank, a research assistant at U Maine, working with Aaron Weiskittel of U Maine, proposed a study, including work in the Park's SFMA, aimed at improving the accuracy of forest modeling using FIA plots. A summary of progress made during the 2013 field season can be found in the Appendix of SFMA portion of this Operational Report and will also be archived in the BSP Research Database.

Baxter FLORA

The Baxter FLORA project embarked on a second field season in the ambitious effort to catalogue all the plant species in Baxter State Park. Project Leader Glen Mittelhauser of the Maine Natural History Observatory called on trained volunteers from the pilot 2012 season of surveys as well as training new volunteers for 2013 survey efforts. A total of 8 surveys were conducted in the Park this year, including surveys of the Trout Brook Farm area, Kidney/Daicey area, Nesowadnehunk area, Abol area, the Scientific Forest Management Area, Russell Pond area, Katahdin Lake area, and much of the vast expanse of Grand Lake Matagamon! A total of 28 new and returning volunteers participated in the Baxter FLORA project in 2013, on 38 different survey days. Photographs of plants are an important part of documenting species during surveys, to confirm identification and build files for the upcoming flower guide to Baxter wildflowers. 2013 FLORA volunteers took approximately 7000 photos and added 70 species to the Park plant list, bringing the total count for species in Baxter to 835 species, a number likely to grow as Glen and his associates work through voucher specimens from the summer during the winter of 2013-2014.

In addition to the significant donation of specialized expertise this project represents, the growing cadre of specially trained volunteers working on this project may provide helpful expertise to Park managers and advocate for the protection of Park plants long into the future.



FLORA survey team, Matagamon Lake August 2014, L to R: Jerry Longcore, Marilee Lovitt, Abbe Urban and Project Lead Glen Mittelhauser

Katahdin Arctic Survey

Due to inclement weather during the flight window for the Katahdin Arctic in 2013, we were unable to conduct an official trailside survey. The favored window for our survey is between late June-mid July. Adding to the dismal lack of a survey, we received only one credible report of a Katahdin Arctic butterfly sighted during the flight season.

Maine Audubon Loon Survey

The Maine Audubon Loon Survey took place on July 14 this year. Eighteen people assisted in gathering this data, which we compile and submit to Maine Audubon to contribute to their efforts to

monitor loon populations throughout Maine. Wilderness Educator Jennifer Wachtl was successful in recruiting enough participants to cover 16 ponds and lakes. Matagamon Lake, as always, offered the most loons for viewing, with BSP Ranger Mike Martin reporting 17 loons during his patrol of the lake, aided with the use of Park motor launch. In all, a total of 48 adults and 6 chicks were spotted over approximately 6,267 acres of BSP waters! We are thankful to the 10 BSP employees, 2 Trail Crew Interns and 6 BSP Volunteers who participated in this annual morning survey. Names of Loon Count participants and information on the waters surveyed can be found in the Appendix of this section of the Operational Report.

Moose Patrols

Wilderness Educators did Moose Patrols at both Sandy Stream and Stump Ponds on 23 days in 2013. Patrols begin while the Wilderness Educators are still training in early June and run through the peak photography period to late October. The greatest benefit of these visitor contact efforts at popular moose watching sites in the Park is to provide a visible Park presence, which serves to remind visitors to respect the wildlife and each other and also gives them a chance to ask questions if they want to know more about wildlife or have questions about the Park in general.

In 2013 we added a prop to our Moose Patrols: a wildlife watching scope and tripod. When we take it with us and set it up, it puts casual visitors on equal footing with professional photographers using telephoto optics and tripods. With our scope set up, we can invite people who don't have binoculars to enjoy a close up view of moose and demonstrate how proper wildlife viewing techniques can prevent disturbance and habituation of wildlife.

Alpine Steward Patrols/ Mountain Patrols

Almost half of the hours worked by Wilderness Educators are devoted to Alpine Steward/ Mountain Patrol work. First and foremost, this involves alternate weeks assigned to patrol Katahdin trails using Chimney Pond Crew Camp as a base. A typical day for our Wilderness Educators on Alpine Steward/ Mountain Patrol detail involves greeting hikers arriving at Chimney Pond in the morning before they begin their ascent. Trail, safety and environmental information are all shared freely with visitors as they funnel by the ranger station to get a view down by the pond's edge or sign out on the hiker sheet on the porch. The morning talk allows the Chimney Pond ranger to deal with incoming radio messages or reservation issues, with confidence hikers will continue to be greeted and have a chance to ask questions.

From July-mid October 2013, Wilderness Educators conducted 54 patrols above treeline on Katahdin. Our Wilderness Educators provide visitor contact and record observations on visitor numbers in the alpine zone. In addition to answering visitor questions we ask Wilderness Educators to record notes at 5 plant stations and observations on the numbers of hikers visible from various points above treeline during their patrol. Our division has been documenting visitor numbers on Katahdin via foot patrol since 1993.

In 2013, Wilderness Educators recorded numbers of hikers visible at Baxter Peak 33 times during their patrols. The average number of people congregated around the peak at any time, over all the 2013 counts, was 51 individuals, with the 2013 maximum of 135 people at the peak was recorded during a count on September 28, 2013. We also ask Wilderness Educators to keep a daily total of people encountered as they hike from Chimney Pond to the summit area and back to Chimney, in order to understand the numbers of hikers a visitor might expect to encounter during their day. In 2013 the most people our patroller passed or encountered while hiking throughout the entire day was 230 people (!) on August 10 but in the entire 2013 season, the average number of encounters in a given patrol day was 45 people. Mountain Patrol figures for the last 10 years can be found in the Appendix to this section of the Operational Report. Records from years previous to 2003 are available from the I & E division at Park Headquarters.

There are additional strategies we employ to boost this program's effectiveness which is obviously limited by weather and available labor. During the weeks Wilderness Educators are assigned to Chimney, inclement weather may necessitate focusing visitor contact all day on hikers arriving in the campground. Many times, after seeing the conditions for themselves or talking with a ranger or Wilderness Educator, visitors will make Chimney the turn- around point for their hike. In better, but still challenging conditions, the Wilderness Educators may opt to station themselves at Saddle Brook before hikers begin the steep hike up Saddle Slide. This illustrates safety for hikers and encourages them to consider whether continuing into exposed terrain is their best choice. On less than ideal days most hikers will not reach Baxter Peak so working at a lower elevation allows us to contact the majority of the hikers. In recent years, we have experimented with providing visitor contact focused on the roadside trailheads of Katahdin for the Hunt (A.T.) and Abol Trail. In 2013, we provided west side Katahdin Trailhead



Wilderness Educator Angie Anders greets hikers during a west side mountain patrol

on Saturdays and Sundays. On a given weekend, the Wilderness Educator not scheduled to work out of Chimney Pond Campground, has been stationed on early mornings at either of these trailheads, with the option to climb up the trail a mile or so. On Saturdays, this effort ends at about 9 AM because the Wilderness Educators leave for their Saturday AM children's programs, offered at 10 AM at either Daicey Pond or Kidney Pond campgrounds. Meanwhile the campground rangers have several Park locations to cover, or need to leave the office to perform routine campground chores. Experience indicates late morning is still a critical time for visitor contact at these trailheads or on the trails because late arriving hikers are often unaware of the time commitment and strenuous nature of a Katahdin

hike and can benefit from a trailhead presence. The limited supplemental contact and information we have been able to provide at these locations has proven useful and we will continue to schedule this coverage to increase protection of the natural resources and wilderness experience of the alpine zone in future seasons.

Purple Loosestrife Patrols

We schedule field checks beginning in July to detect the invasive plant purple loosestrife near three locations it has been previously detected and removed. This invasive occurs at three different roadside locations in the Park. We make a point to share information with any curious bystanders when we conduct these thorough surveys. I & E staff made 10 field checks between July 7 and October 20. No flowering plants were detected during these field checks.

Field Patrols/Conferences/Training Received/ Meetings

Partial List Field Patrols

1/11 Abol Pond/Field- visit with Orono students, J Hoekwater

3/7 Center Pond with BSP 56, GPS location of former Center Mtn LT for Guard extraction, J Hoekwater

3/21 Lynx track survey in SFMA with BSP 54 & Dee Brace, Jean H.

5/23 Helon Taylor with BSP 53, J.Hoekwater, M. Taylor

5/24 South Turner, Wilderness Educators, M. Taylor, J. Hoekwater



Early summer I & E crew, L to R: Jennifer Wachtl, Jean Hoekwater, Morgan Taylor and Kaiti Davis

5/31 Horse Mountain, Wilderness Educators, M. Taylor, J. Hoekwater

6/5 North Basin. Wilderness Educators, M.Taylor. J. Hoekwater

6/13 Assisting Kidney Pond personnel with placement of buoys around loon nest, M. Taylor

6/15 Katahdin plant training, Wilderness Educators, M.Taylor, J.Hoekwater

6/22 South Turner, J. Hoekwater

- 6/28 Down thru Park with Wilderness Educators, J. Hoekwater, M. Taylor
- **7/16** Doubletop with Maine Natural Area Program's Don Cameron and Any Cutko, M. Taylor and Unit 24, Joe Brewer
- 8/2 South Turner with new Wilderness Educator, M. Taylor, J. Hoekwater
- **8/8** Matagamon Lake with BSP 57, Glen Mittelhauser and Baxter FLORA volunteers, J. Hoekwater



Morgan Taylor, OJI summit Oct. '14

- 8/13 Field inspection of Little Wassataquoik area with admin staff, M. Taylor, J.Hoekwater
- 9/17 South Branch off trail hike, M. Taylor, J. Hoekwater
- 9/24 Tour of EPI lands with EPI managers, J. Hoekwater

9/30 Trout Mountain TNC preserve hike, viewing FIA plots with TNC staff and R. Morrill, M. Taylor

10/3 OJI, M. Taylor,



Jean Hoekwater and Stewart Guay, Helon Taylor, May '14

J.Hoekwater

10/9 Field inspection of new proposed Wass. Lk LT site and hike Wass Str Trail, J. Hoekwater

10/16 Hike with BSP Admin staff off trail near South Branch Pond campground, J	J. Hoekwater
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Training Received/Conferences Attended

- 1/19 Maine Entomological Society Training; Beetles, MFS Bolton Hill facility
- 4/29 ME I.F. & W. Regional Black Bear Symposium\ U Maine Sustainable Solutions initiaitive, Orono, M. Taylor, J. Hoekwater
- **7/15-20** Field trips and annual meeting of Josselyn Botanical Society, U ME Machias, J. Hoekwater
- 9/10 BSP Advisory Field Inspection-KPC Crew Housing
- **9/17** Leadership and Team Building, Bangor, M. Taylor
- **10/12-13** New England Intercollegiate Geology conference field trips in Baxter State Park, M. Taylor, Wilderness Educators A. Anders and K. Davis
- Tour of the BSP Scientific Forest Management Area, M. Taylor, Wilderness Educators A. Anders, K. Davis, and J. Wachtl.
- **11/1-3** Alpine Managers Gathering, Sargent Camp, NH, M. Taylor, J Hoekwater

Meetings

- 1/18 Meeting with Glen Mittelhauser, Rick Morrill and Dawn Morgan re: integrating BSP FLORA survey data with BSP database. J. Hoekwater
- **2/4** Celebrate the Maine Woods Steering Committee, Viles Arboretum, Augusta, J. Hoekwater
- **3/15** Maine Woods Forever meeting, J. Hoekwater
- 3/20 BSP Advisory, J. Hoekwater
- 3/23 BSP Meeting, MFS Bolton Hill facility, J. Hoekwater
- **4/26** BSP Advisory, J. Hoekwater
- **5/10** BSP Authority, MFS Bolton Hill facility, J. Hoekwater
- 9/27 Maine Woods Forever-dedication of Thoreau Wabenaki kiosk, Indian Island
- **11/15** BSP Advisory, J Hoekwater
- 11/22-23 ATC New England Regional Partners Annual Meeting, Rangeley ME, J Hoekwater
- **12/16** BSP Authority, acceptance of "Page Lot" easement on Katahdin Lake, J. Hoekwater

D. ADMINISTRATIVE SERVICES

2013 ADMINISTRATIVE SERVICES STAFF

- Office Specialist I, S. Jean Howes
- · Accounting Associate I, Mary Ellen Bell,
- Inventory and Property Associate I, Constance Theriault
- Office Associate II Supervisory, Joni Lowell
- Office Assistant II, Nancy Guay
- Office Assistant II, Jeannie Tibbitts
- Office Assistant II, Mary Beth Varney
- Office Assistant II. Monica Raulf



RESERVATIONS:

On January 15, 2013 opening day for summer reservations was held. On this day a total of ninety-two reservations were made. Seventy-nine reservations were made by Maine residents and thirteen reservations were made by non-residents. Revenue for opening day was a total of \$28,272.50.

In 2013 we made the final step for the online reservation system by matching the rolling reservation system in the Reservation Office to the online reservation system. This allows visitors to make a reservation four months prior to their reservation date either by mail, phone,

in person or online. In doing this we allow visitors to call the Reservation Office with a credit card and make a reservation using the rolling reservation system. The only difference between the online service and the service the reservation staff offers is that online visitor has to wait until the end date of their stay in order to make the reservation at one time, so that all the dates are within the four month window.

The revenue for online camping was \$300,380 which is 35% of the overall reservations revenue for 2013. Revenue for DUPRs was \$25,705 which is 5141 DUPRs, and revenue for entrance fee with the DUPR was \$46,104.

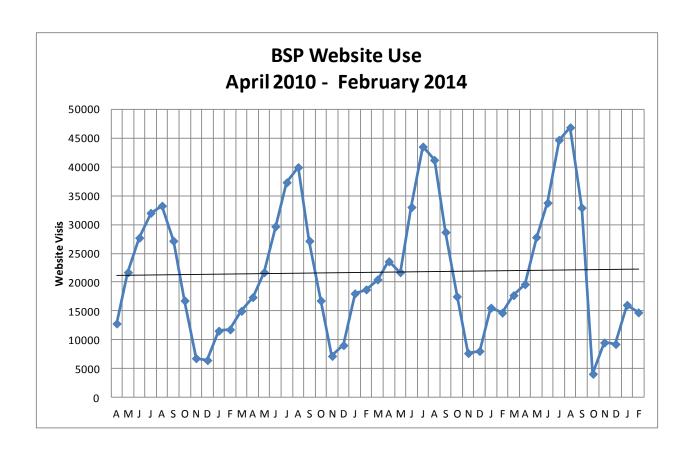
Statistics for the Reservation Office are on the chart. With the online service now available to visitors we are seeing a shift in how reservations are being made. As shown on the chart below 43% of the summer reservations are made online. In comparison with 2012 stats by mail volume declined 69% which reduced the number of reservations made through the mail by 74%. Phone reservations increased by 42% between the 2012 and 2013 seasons, consequently increasing telephone calls by approximately 1000 in 2013 compared to 2012. With the reservation system that we have in place now the Reservation Office will be more of the phone reservations and phone calls for information. The difference of total reservations made between 2012 and 2013 was only a 5% increase. There will not be any more changes to the reservation system at this time.

			R	ESERV	ATIO	N OFF	ICE S	TATS -	2013 S	EASON	l				
	Site Nights	Total Campers	Counter Reservations	Mail Reservations	Radio Reservations	Telephone Reservations	Winter Reservations	Internet Reservations	Telephone Calls	Office Visitors	Mail Received	Information Packets Sent	Videos Shown	Dupr Res	
Jan	393	577	96	53	0	20	86	30	320	160	120	5	0	0	
February	923	1510	13	66	0	93	30	78	500	96	75	15	0	0	
March	661	1010	17	170	0	261	10	326	626	91	190	10	0	0	
April	0	0	8	201	0	451	0	498	710	100	220	10	0	0	
May	1358	3450	21	108	30	505	0	576	1200	120	130	20	5	0	
June	3894	10879	38	45	71	571	0	607	1890	270	100	15	21	36	
July	6757	21447	39	25	91	499	0	619	1880	390	50	15	20	108	
August	7729	24890	34	26	119	459	0	549	2200	420	36	18	50	134	
September	5367	13803	44	13	119	331	0	355	1250	250	30	17	20	65	
October	2279	5976	9	1	63	116	0	65	480	230	10	5	10	20	
November	0	0	29	68	0	0	97	0	300	100	80	5	0	0	
December	196	333	0	54	0	0	54	0	210	62	62	3	0	0	
TOTALS	29557	83875	348	830	493	3306	277	3703	11566	2289	1103	138	126	363	
2012 totals	28519	79651	742	3248	514	1908	194	1827	10563	2050	3548	129	110	441	
2012 to 2013	4%	5%	-53%	-74%	-4%	42%	30%	51%	9%	10%	-69%	7%	13%	-18%	
					43%	of res	ervatio	n made	online						

CONTRACTED SERVICES

Rubbish Removal – Plourde Trucking, Millinocket; Pine Tree, Houlton Janitorial Services – Denise Bragdon, Millinocket Firewood and Firewood Bundling – Mike Sabine, Clint Morrow SFMA Forest Operations/Road Construction – Pelletier Brothers, Millinocket Trail Work – BSP Interns, Maine Conservation Corp. Information/Education – BSP Interns Septic Tank Pumping – Lincoln Rental, Lincoln Fuel – Dead River, Preble Oil, Agri-Cal, Houlton Lawn Maintenance – Mainely Landscaping and Lawns, Millinocket Computers – CMTI/Bruce Grant, Dover-Foxcroft, Cellular Service – US Cellular, Verizon Copier Service – Ikon Office Solutions Programming Services – Dirigo Spatial Systems, Inc., Hampden Satellite Internet Dish Access – Hughesnet.com Website Maintainance- Cadillac Web Development

BAXTER STATE PARK WEBSITE USE



POSITION CHANGES

NEW EMPLOYEES:

David Chase - CR1/Abol Campground

Meghan Malone - CR1/Katahin Stream A/C

Nathan Ventura - CR1/Katahdin Stream A/C

Dan Pontbriand - Backcountry Ranger/Roving

Alan Watson – Trail Crew Leader

Harold Read – Trail Crew Leader

Nick Huntington – Trail Crew Leader A/C

April Bolstridge – CR1/Roaring Brook

Ruth Levesque – Gatehouse Attendant/Togue Pond

Morgan Taylor - Interpretive Specialist

James Barden – GA/Matagamon A/C and CR1/Project Position

RESIGNATIONS:

Jon Schmidt - Trail Crew Leader

Harold Read - Trail Crew Leader

Zac Montgomery - Gatehouse Attendant/Togue Pond

Dan Pontbriand – Backcountry Ranger/Roving

Nathan Ventura - CR1/Katahdin Stream A/C

Nick Huntington - Trail Crew Leader A/C

Meghan Malone - CR1/Katahdin Stream A/C

James Barden – GA/Matagamon A/C and CR1/Project Position

TRANSFERS/PROMOTIONS/ACTING-CAPACITY/TEMP. COMP.:

Bill Martell - Roaring Brook CRI to Backcountry Ranger-Roving

Tom Power – GA/Togue transferred from 26 wk/29 wk position

Katrina Kinkead – GA/Toque transferred from 23 wk/26 wk position

Robin Stevens – GA/Togue transferred from 12 wk/23 wk position

Russ Porter – CR1/Roaring Brook transferred from 22 wk/24 wk position

April Bolstridge - CR1/Roaring Brooks temp. comp. Backcountry Ranger/Roving

RETIRED:

Mary Ellen Bell – Accounting Associate Marcia Williamson – Interpretive Specialist

YEAR-ROUND POSITONS

Position	Name	Location
BSP Director BSP Chief Ranger Resource Manager Forester I Park Naturalist Business Manager Deputy Chief Ranger BSP Enforcement Ranger BSP Supervisor Ranger Secretary Accounting Associate I Office Specialist I Inventory & Property Assoc. I Office Associate II, Supervisor Maintenance Supervisor Auto Mechanic II Carpenter Trail Crew Supervisor Interpretive Specialist Interpretive Specialist	D. Jensen Bissell C. Ben Woodard Richard Morrill Deidra Brace Jean Hoekwater Christine Theriault Stewart Guay Michael Winslow Isaac Needell Michael Martin Robert Tice Bruce White Ada Angotti Mary Ellen Bell S. Jean Howes Constance Theriault Joni Lowell Rodney Angotti Frank George Craig Kennedy Paul Sannicandro Marcia Williamson Morgan Taylor	Headquarters, Mlkt. Headquarters, Mlkt. SFMA SFMA Headquarters, Mlkt. Headquarters, Mlkt. Headquarters, Mlkt. Field Field Field Field Field Headquarters, Mlkt.
•	- •	•

SEASONAL POSITIONS – 2013

Title/Position	Number	Name/Location	<u>Wks</u>	<u>Start</u>	<u>End</u>
9425-0631 9425-0221 9425-0922 9425-0351 9425-0741 9425-0391 9425-0421 9425-0978 9425-0461 9425-0611 9425-0982 9425-0983 9425-0980 9425-0981	Mark Varney Gabe Williamson Gunter Bernardini Russ Porter April Bolstridge Meghan Malone A/C Yves Baribeau Paul Corrigan Dave Chase Gerald Locke Dean Levasseur Diane Freelove Charity Levasseur Andy Vietze	-Nesowadnehunk -So. Branch Pond -So. Branch Pond -Roaring Brook -Roaring Brook -Katahdin Stream -Katahdin Stream -Abol -Abol -Trout Brook Farm -Kidney Pond -Kidney Pond -Daicey Pond -Daicey Pond	21 24 20 24 22 22 22 22 22 25 25 25 25	5-19 5-5 5-19 5-5 5-19 5-19 5-19 5-26 5-19 5-5 5-5 5-5	10-12 10-19 10-5 10-19 10-19 10-19 10-19 9-28 10-5 10-26 10-26 10-26
	TRY RANGERS - SUN				
9423-0021 9423-0831 9423-0601 9423-0841	Greg Hamer Brendan Curran Cathy Lusk Mark Sairio	-Russell Pond -Russell Pond -Chimney Pond -Chimney Pond	24 22 24 22	5-5 5-12 5-5 5-19	10-19 10-12 10-19 10-19
BACKCOUN	TRY RANGERS - ROV	ING RANGERS			
9423-0991 9423-0993	Bill Martell Gardner Waldeier	-Parkwide -Parkwide	26 26	5-5 6-2	11-2 11-30
	TRY RANGERS - WIN				
9423-1008 9423-0998	Greg Hamer Mark Sairio	-Chimney Pond -Chimney Pond	12 12	1-2 1-9	3-23 3-30
GATEHOUSE	E ATTENDANT				
9422-0171 9422-0511 9422-0361 9422-0441 9422-0201 9422-0501 9422-0531 9422-0541	Katrina Kinkead Rick Leavitt Tracy Young Marcia Anderson Dana Miller Tom Power Robin Stevens Ruth Levesque	-Togue Pond -Togue Pond -Matagamon -Matagamon -Matagamon -Togue Pond -Togue Pond -Togue Pond	26** 23 29** 29** 23 29** 23 12	6-2 5-12 5-12 5-12 5-12 5-12 5-12 6-16	11-30 10-19 11-30 11-30 10-19 11-30 10-19 9-7
TRAIL CREW	V LEADER				
9436-0940 9436-0984	Harold Read Alan Watson	-Parkwide -Parkwide	26 26	5-12 5-12	11-9 11-9
OFFICE ASS 6538-0941 6538-0967 6538-0731 6538-0997	JESTANT II Jean Tibbitts Nancy Guay Marybeth Varney Monica Raulf	-Millinocket HdqtrsMillinocket HdqtrsMillinocket HdqtrsMillinocket Hdqtrs.	40 40 40 12	1-14 1-14 1-14 6-16	10-19 10-19 10-19 9-7
	REP ASSISTANT II	N// 10 O	- 4		
6510-0977 6510-0992	Bob Gonya Brian Johnston	-Visitor Center -Visitor Center	21 21	5-26 5-19	10-19 10-12

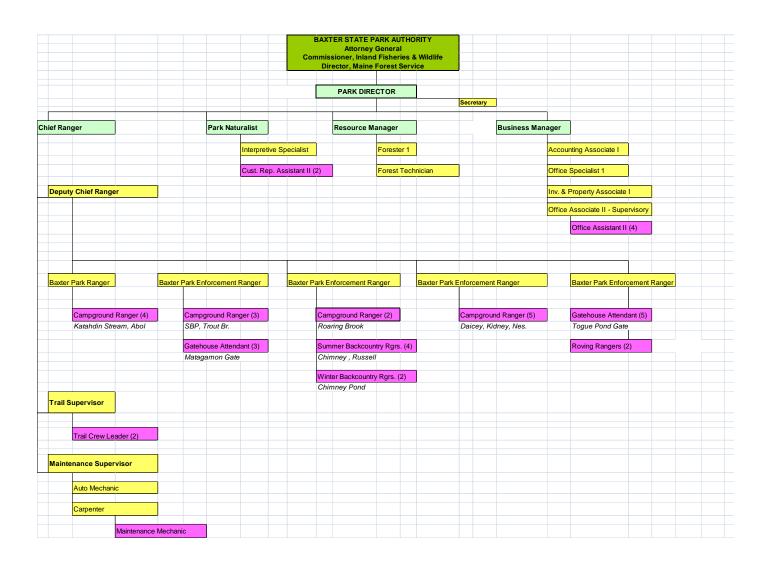
MAINTENANCE MECHANIC

8281-0965 Matt Martin - Mill. Maint. Facilities 26 5-5 11-2

FOREST TECHNICIAN

9456-0988 Kevin Osborne -SFMA 31 4-21 11-23

^{**}Extensions are weather related Updated 5/10/2013



2013 BAXTER STATE PARK RESERVATION PROCEDURES

How do I make Reservations?

- 1. Read completely:
 - **♦** This information sheet
 - ♦ BSP Rules & Regulations
 - ◆ The BSP Road Map handout or general information from Park website.
- 2. Completely fill out reservation forms (available from the Park or its website). Include as many options as possible.

Baxter State Park Headquarters:

Baxter State Park
Reservations
64 Balsam Drive
Millinocket, ME 04462

- 3. Enclose appropriate payment.
- 4. Enclose self-addressed, stamped, #10 business sized envelope (if reserving by mail).
- 5. At the appropriate time: Mail, bring in person, book online, or phone to Baxter State Park Headquarters.

When can I make a reservation at Baxter State Park?

- 1. Coming in person to BSP HQ on Tuesday, January 15, 2013. Reservations will be limited to 20% of sites per campground, per day. Only two (2) reservations per person will be allowed. If large numbers of campers intend to make reservations on this day the campground limits are expected to be quickly reached; forcing campers to try again for reservations during the rest of the season. Campers are encouraged to be flexible in their dates and site choices and plan on using the rolling reservation system for the majority of their camping trips.
- 2. Using the Rolling Reservation System, US mail, walk in, and phone reservations can be make at BSP HQ four (4) months or less prior to the start of your desired camping trip. Online reservations can be made (4) months from your camping end date. (sites excluded from online reservations include: Chimney Pond, Russell Pond, Davis Pond, bunk spaces, group sites and accessible sites). All sites (at least 80% of all camping nights, plus any sites not reserved on January 15) will now be available for rental, four months prior to camping. Mail in reservations will be given a seven (7) day "buffer". Mail and walk-in customers will be processed at the same time. Mail will be randomly processed (not in the order it was received) except that all Maine resident reservation requests made by mail will be processed before non-resident mail requests on a daily basis. There is a limit of two (2) reservations per day for each person making walk-in or mail-in reservations.

3. NOTE: People who arrive earlier than four months ahead of their camping date will not be processed and will be asked to return or mail-in when the dates finally do "roll" open. Mail that is received more than four months and seven days ahead of camping dates will not be processed and will be returned to sender.

What else do I need to know?

Summer Campground Opening & Closing Dates (Inclusive):

Roaring Brook: May 15 - Oct. 15Chimney Pond: June 1 - Oct. 15

• Katahdin Stream: May 15 - Oct. 15

Abol: May 15 - Oct. 15

• Daicey Pond: May 15 - Oct. 15

• South Branch Pond: May 15 - Oct. 15

• Russell Pond: May 15 - Oct. 15

• Kidney Pond May 15 - Oct. 15

Trout Brook Farm *Opens the Friday before Memorial Day - Oct. 15

Nesowadnehunk *Variable: Opens no later than June 15 – Closes as early as Sept. 15

*Please call Park Headquarters for current opening/closing dates for these campgrounds. The Director or such other person designated by the Authority may adjust campground seasons before July 4th and after Labor Day should use, weather or other conditions warrant. Under these circumstances, reservations will be made on a daily basis only.

Arrival and Departure Check-In Time after 1:00 p.m.

Check-Out Time by 11:00 a.m.

All campers must be through the gate by 8:30 p.m. on the first night of camping. If you miss the first day of your reservation please call, as reservations are released on the second day at 4:00 p.m. for no show reservations.

Fees:

Summer fees (children age 6 or under are free, but count towards site capacity): <u>Cabins:</u> 2-person cabin = \$55.00; 3-person cabin = \$75.00; 4 person cabin = \$100.00; 6 person cabin = \$130.00. Gas lights and firewood are included in cabin fee.

Tent sites: \$30.00 per site per night

Lean-tos: \$30.00 per site per night.

Bunkhouse**:\$11.00 per person per night

<u>Group Areas</u> (Bear Brook, Foster Field, Nesowadnehunk Field and Trout Brook Farm Field): 6 person minimum charge (\$42.00), otherwise \$7.00 per person per night.

Winter Fees (Special policies are in effect for winter, please request winter information from Park Headquarters or visit the Park's website before making winter reservations):

<u>Bunkhouse</u>**: \$19.00 per person per night, except at Chimney Pond bunkhouse (\$38.00 per person per night).

Lean-to or Tent site: \$15.00 per night.

<u>Cabins</u>: . 2-person cabin = \$55.00; 3-person cabin = \$75.00; 4 person cabin = \$100.00; 6 person cabin = \$130.00. Gas lights and firewood are included in cabin fee.

**Reservations for individual bunk only. Facility is shared with other individuals or groups up to the capacity of the bunkhouse.

Non-Resident Motor Vehicle Fee (Payable only at gate.) A day pass or season pass is required for all vehicles entering Baxter State Park. Non-resident motor vehicles shall pay a motor vehicle fee of \$14.00 per motor vehicle for each day in the Park. If a motor vehicle enters the park in connection with overnight reservations covering one or more consecutive nights in the park, then re-entry to the park shall be permitted upon payment of a single motor vehicle fee during the period covered by the overnight reservations, and no longer. Motor vehicles shall not be permitted to enter the Park under any other circumstances, including day use, through traffic or reservations for non-successive nights in the park, without payment of the motor vehicle fee for each day. This regulation does not apply to motor vehicles bearing a Maine registration and license plate. A season pass under this regulation shall be available at a charge of \$39.00 per non-resident vehicle.

The proper fee must accompany all reservation requests. All fees include sales tax where applicable and must be paid in U.S. funds. For summer reservations, Park Headquarters accepts Visa, MasterCard, money order or check made payable to Baxter State Park.

Campgrounds and gates inside the Park do not accept credit cards (no electricity), please be prepared to pay with cash or check when arriving at the Park.

Fees are payable by all persons year round, except government employees on official business within the Park.

Refunds will not be available ordinarily. The Director may (at his sole discretion), permit refunds or may impose a special requirement before granting refunds. Portion of paid fee retained in the event of a refund will be \$10.00. A fee of \$15.00 will be collected for site transfers.

Office Hours: The Reservations Office is open from 8 a.m. to 4 p.m., Monday through Friday, but closed on weekends and holidays. During our peak season from Memorial Day through the Saturday of Columbus Day week-end, the Reservation Office is open from 8 a.m. to 4 p.m. seven days a week, including Holidays. No reservations will be made when our office is closed, but shall be accepted on the next business day.

Reservation Limits and Other Policies:

A reservation is an arrangement by which accommodations are secured for one or more consecutive nights of lodging in Baxter State Park. Reservations shall be accepted for up to seven (7) total nights for any one (1) site and any one (1) campground, and up to two weeks (14 nights) total duration.

When considering capacity of all facilities, each child is counted as one individual regardless of age. Site capacity is restricted. Before adding people to your party, consult with Park Reservation Clerks to be sure your site will hold additional people. Reservations for two or more nights will be held only until 4:00 PM of the day following the first evening for which reservations were made.

Groups of thirteen (13) or more in a family or non-family situation shall be assigned to one of the group areas.

Each organized camp group of five (5) or more individuals will be limited to one (1) visit to Chimney Pond Campground during the period from July through August. Park Campground maps showing campsites and information on outlying sites are available by contacting the Park directly or visiting our website:

www.baxterstateparkauthority.com

If you have questions, please call our Reservations Office at (207) 723-5140.

E. BAXTER STATE PARK STATEMENT OF REVENUE AND EXPENDITURES FISCAL YEAR ENDING JUNE 30, 2013

				_				

Duplicate/Overpayment Fees

Park Operations Recreations Fees \$731.858 Transfer Fees \$5,935 **Entrance Fees** \$165,428 Miscellaneous Services \$45,074 Sales of Maps, Books, etc. \$35,658 Sale of Forest Products \$ 171,696 Foreign Exchange Differential \$(275)

NET REVENUE FROM OPERATIONS \$1,152,815

TRUST FUNDS

Boston Trust \$ 1,870,000 State Held Trust \$119,087 Cash Pool Distribution (interest) \$3,560 Independent Trust \$120,000

NET REVENUE FROM TRUSTS \$2,112,647

MISCELLANEOUS REVENUE

Special Licenses and Leases \$ (194) Sale of Equipment \$ 3,225 Rent of Lands \$2,500 Miscellaneous Income \$ 2,779

TOTAL MISCELLANEOUS REVENUE \$8310

TOTAL REVENUE AVAILABLE \$3,273,772

\$851,422

\$493,435

(\$2,559)

EXPENDITURES

PERSONNEL SERVICES Salaries, permanent Salaries, seasonal Overtime/Differential/Retro

\$76,515 **Retirement Contributions** \$356,630 Other Benefits

\$439,941

TOTAL PERSONNEL SERVICES \$2,217,943

ALL OTHER

Contractual Services \$336,818 Park Operations - All Groups \$505,174 Sta-Cap Charges \$40,744

TOTAL ALL OTHER \$882,736

CAPITAL

Buildings \$165,648 Equipment \$ 8,316

TOTAL CAPITAL \$173,964

TOTAL EXPENDITURES \$3,274,643



Executive Summary: FY13 Annual Work Program

Continued effort to find efficiencies in Park operations have resulted in lower real (inflation adjusted) expenditures including reduced pressure on Park endowments since FY09 (see attached analysis). The Executive branch freeze on pay raises for State employees, recent retirements from BSP service and changes to the organization of Park staff have also reduced pressures on personnel costs.

Revenue Notes:

- Planned FY13 revenue from Baxter Trusts is less than actual revenue received in FY10. Adjusted for inflation, revenues from Trusts have risen 10% over the past 12 years.
- Park use holding steady. On-line reservation changes are likely to benefit to Park use and camping revenue.
- Unearned revenue (donations) is providing 3.6% of total available revenue in FY13.
- SFMA revenue remains an important component in Park revenue and has continued steady despite poor economy and housing market, although changes in wood products markets in north-central Maine remain a concern for competition and management options.

Expenditure Notes:

- Low to moderate inflation rates, a freeze in pay raises since 2009 and management effort in finding efficiencies in operations have all contributed to conservative spending levels.
- Several capital projects in FY13 are aimed at protecting future expenditure needs, including conversion of HQ heating from oil to wood pellets, installation of back-up power facility and initiation of a 20 year effort to replace large culverts and repair critical bridges in the Park Tote Road.
- The conversion of the Park Trail Crew from Student Conservation Association provided crews to Park Interns has been successful and provides more trail effort for the same cost. FY13 provides additional modifications in crew work period options to further increase trail effort per dollar expended.
- Workers compensation costs remain high. Recent improvements in workplace safety are significant. Emphasis on a culture of safety will continue to be a priority.
- Friends of Baxter State Park support of Maine Conservation Corp Trail Crews has provided important additional trail maintenance work.

REVENUE FOR THE PARK

EARNED REVENUE	CODE	ACTUAL FY2011	ACTUAL FY2012	ANNUAL FY2013	% OF FY13	ACTUAL FY2013
SPECIAL LICENSE & LEASES	1448	201	481	200	%0	(194)
INTEREST ON BANK BALANCES	2101	0		0	%0	
EARNINGS ON INVESTMENT/Cash pool	2105	1,822	3,857	1,500	%0	3,560
RENT OF LANDS	2601	1	2,500	2,500	%0	2,500
RECREATIONAL USE OF PARK	2610	787,593	846,901	770,000	24%	731,858
TRANSFERS	2616	8,312	5,751	7,000	%0	5,935
ENTRANCE FEES	2618	152,646	164,526	140,000	4%	165,428
REFUNDS & DUPLICATE FEES	2620	(4,975)	(11,286)	(3,000)	%0	(2,559)
MISC SERVICES & FEES	2637	41,569	47,958	37,000	1%	42,074
SALE OF MAPS & BOOKS	2657	38,866	37,628	35,000	1%	35,658
CASH OVER/SHORT FOREIGN EXCHANGE	5689	(206)	(64)	150	%0	(275)
CONTINGENCY FROM ENTERPRISE FUND(SFMA)	2722	304,934	223,400	200,000	%9	171,696
CONTINGENCY FROMBAXTER TRUSTS	2724	1,955,000	2,195,000	1,870,000	26%	1,870,000
CONTINGENCY FROM STATE HELD TRUSTS	2724A	110,393	87,884	100,000	3%	119,087
SALE OF EQUIPMENT	2806	1		0	%0	3,225
SALE OF AUTOS	2821	-		0	%0	
TOTAL EARNED REVENUE		3,395,454	3,604,506	3,160,350	100.0%	3,150,993
BALANCE BROUGHT FORWARD		2,211,327	285,405	198,433		296,000
UNEARNED (Donated) REVENUE						
SMALL DONATIONS (<\$1000)	2686A	15,322	10,745	2,000		2,779
LARGE DONATIONS (>\$1000)	2686B	124,000	115,000	124,000		120,000
TOTAL UNEARNED REVENUE		139,322	125,745	129,000		122,779
TOTAL REVENUE		3,534,776	3,730,251	3,487,783		3,273,772
EXPENDITURES BY GROUP		Ī				
PERSONAL SERVICES		2,259,964	2,215,852	2,284,168	92%	2,217,943
ALL OTHER		844,530	926,915	1,027,615	29%	882,736
CAPITAL		38,975	127,790	176,000	2%	173,964
TOTAL EXPENDITURES		3,143,469	3,270,557	3,487,783		3,274,643

BUDGET FOR THE PARK

	ACTUAL	ACTUAL	ANNUAL	ACTUAL
	BUDGET	BUDGET	BUDGET	BUDGET
	FY11	FY12	FY13	FY13
3000 PERSONAL SERVICES				
3110 Perm Regular	740,669	718,128	933,684	701,986
3120 Perm PT B				
3180 Perm Vac	44,671	62,987		59,274
3181 Perm Hol	46,375	45,088		45,010
3182 Perm Sick	31,301	26,501		45,152
3185 Perm Vac Pay Retire		3,293		
3195 Attrition	0	0	-76,565	
3210 Limited Period Regular				
3280 Limited Period Vacation				
3281 Limited Period Holiday				
3282 Limited Period Sick				
3310 SSNL REG	404,182	426,606	530,082	416,722
3380 SSNL VAC	27,372	29,512		29,803
3381 SSNL HOL	23,660	23,990		24,208
3382 SSNL SICK	8,520	16784		16,912
3410 PROJ REG	16,146		5,990	
3450 REG ACTG	16,601	581		5,652
3480 PROJ VAC	163			
3481 PROJ HOL	1,507			138
3482 PROJ SICK				
3611 STAND O/T	4,846	3,853		4,871
3612 PREM O/T	4,950	8,472		6,914
3616 RETRO LUMP	2,429			
3618 RETRO 84				
3620 Retire Incentive		5,000		
3621 STP RC/RT	6,393	6,186	6,657	4,636
3623 I.T.TRAINING STIPEND	250	250		
3631 LNGVTY PY	5,739	6,078	7,876	5,942
3634 CALL OUT	58	68		138
3636 Court Pay	69			
3638 SHFT DIFF	745	613	4,014	644
3641 NSTND DIF	36,537	36,346	43,022	53,370
3648 Comp U/P No Retiremnt	2,656	13,174		7,204
3810 UNEMP CMP	29,058	46,286	30,000	43,164
3899 ACCURED PAYROLLS				

3901 HLTH INSR	358,846	342,308	389,866	348,691
3905 DENTAL IN	12,131	11,992	13,939	12,787
3908 ST RET HL	130,698	115,357	118,855	116,076
	100,000	110,007	110,000	110,010
3909 ST RET AD	112 000	77 452	04 445	77 724
3910 EMPR RTMT	112,989	77,453	81,445	77,734
3911 EMPR GROUP LIFE	6,611	6,520	7,023	6,650
3912 EMPR MED	18,623	18,862	19,563	19,361
3959 RUL-BPR	48,422	47,864	51,116	47,782
3960 RUL-REG	114,947	113,533	116,001	115,038
3971 UNIFORM	1,800	2,167	1,600	2,084
3973 CHILD CARE				
	2,259,964	2,215,852	2,284,168	2,217,943
	ACTUAL	ACTUAL	ANNUAL	ACTUAL
	BUDGET	BUDGET	BUDGET	BUDGET
	FY11	FY12	FY13	FY13
PROFESSIONAL SERVICES				
4003 Act/Audit Service	-1,528			2,250
4015 Labor	100,975	122,295	108,325	99,312
4016 Art /Graphics	21	0	200	0
4041 Laundry Services	0	0	100	0
4042 Legal Services	0	225	200	0
4046 Medical Services	556	2,119	500	2,443
4099 Professional Services	199,754	208,487	243,700	232,813
PROFESSIONAL SERVICES STATE				
4106 Lab Services	122	22	400	757
4100 Lab Services	122		700	707
TRAVEL IN STATE				
4270 In-State Mileage	1,151	1,386	1,500	863
4271 Other Transportation	0	. 0	100	0
4273 Lodging	636	527	1,000	993
4274 Meals/Gratuities	5,502	3,493	6,000	4,756
TRAVEL OUT OF STATE				
4380 Out of State Mileage	0	0	0	0
4381 Other Transportation (out of state)	505		500	2,063
4383Lodging (out of state)	483	249	500	620
4384 Meals/Gratuities	0	0	200	300
VEHICLE OPERATIONS				
4402 Gas/Oil	48,162	52,671	60,000	65,563
4403 Diesel Oil	8,373	6,905	10,000	2,630
4423 Repairs Parts/Supply	22,070	27,373	25,000	25,074

4424 Repairs Snowmobile	2,292	4,928	5,000	6,602
LITH ITIES SERVICES				
UTILITIES SERVICES 4521 Electric	10,352	10,279	12,000	11,689
4532 Bottled Water	306	416	500	429
	2,197	2,604	2,500	4,076
4536 Other Utility	3,818	3,651	5,000	3,117
4551 Freight	ACTUAL	ACTUAL	ANNUAL	
	BUDGET FY11	BUDGET FY12	BUDGET FY13	ACTUAL BUDGET FY13
RENTS				
4601 Rent Land	500	500	500	0
4602 Rent Plane	640	545	1,200	424
4616 Rent Misc. Office Equipment	150		200	0
4661 Rent Equipment	185	90	500	1,668
REPAIRS				
4701 RepairGrounds & Rds	145			
4711 Repair Building	16,614	18,830	20,000	29,547
4721 Repair Small Engine	2,539	2,695	5,000	3,128
4726 Repair Radios	930	1,834	1,500	3,989
4735 Maintenance Agreements	16,393	14,177	14,000	2,229
4751 Misc. Repairs	2,084	1,843	3,000	2,668
INSURANCES				
4801 Insurance Building	2,154	2,229	2,300	2,230
4811 Insurance Equipment	290	290	500	290
4825 Insurance General Liability	2,303	14,102	3,000	13,073
4827 Snowmobile Ins	489		1,400	1,051
4841 Employees Bond	118	156	200	204
4845 Workers Comp Ins.	82,428	95,599	93,000	12,078
4851 Mis Insurance	570		600	800
4852 Auto Insurance	4,167	170	5,000	6,312
4880 Eye Exam	150		250	150
4881 Lens Stat	0		250	0
GENERAL OPERATIONS				
4901 Stamps/Parcel Post		1	0	0
4909 Courier Service	237	417	250	283
4911 Metered Postage	4,605	2.397	5,000	3,040
4913 Inter Government postage	38	69	100	51
4929 Printing/Binding	20,371	22,583	20,000	12,643
4941 Print Report (State of Maine)	69	56	100	53
4946 Advertisement Notices	2,156	2,613	2,000	1,406
4955 Credit Card Charges	13,225	11,063	14,000	9,468
4975 Sales Tax	67,300	67,246	68,000	71,464
4982 Subscriptions	379	253	500	435
4995 General Expenses	3,309	7,082	30,000	4,821

CAREER DEVELOPMENT				
5013 Employee Training	14,076	10,148	13,200	9814
Training budget for I&E			800	
Training budget for SFMA			500	
Training budget for Bus Dept			500	

	ACTUAL BUDGET FY11	ACTUAL BUDGET FY12	ANNUAL BUDGET FY13	ACTUAL BUDGET FY13
FUEL				
5201 Fuel oil/pellets	11,182	11,441	17,000	15,069
5202 LP Gas	7,013	8,725	8,000	5,115
5211 Firewood	2,160			0
INFORMATION TECHNOLOGY				
5301 OIT Prof services	4,758			
5302 Telephone/Data	26,944	25,864	32,000	25,986
5304 Cellular Phones	8,090	8,412	8,000	8,715
5346 PC & Networking Software	2,188	1,512	3,000	412
5350 Repair Computers	0	0		0
CLOTHING				
5401 Clothing	11,920	14,525	15,000	12,509
OPERATING SUPPLIES				
5602 Office Supply	7,558	5,089	7,000	9,043
5611 Interpretation/Education	155	278	2,500	428
5629 Books & Maps for Resale	16,197	24,039	18,000	16,153
5636 Miscellaneous Supply	42,071	42,099	45,000	45,097
5650 Misc. Minor Equipment	36,025	29,169	44,040	42,292
LIICUWAY MATERIAL C				
HIGHWAY MATERIALS				
5830 lumber	0	0	6 000	0
5812 Culverts	1,629	1,722	6,000 2,000	1,504
5861 Signs	1,029	1,722	2,000	1,504
STA-CAP	31,461	29,422	30,000	40,744
Total All Other	842,251	897,493	997,615	841,992
Total All Other & Sta-cap	873,712	926,915	1,027,615	882,736
Capital				
7001 Land				
7101 Bldg./Improvements	3,105	28,191	106,000	165,648
7200 Equipment	21016			

7203 Data Processing Equipment				
7211 Motor Vehicle Transportation				
New	14,854	99,599		
Used			58,000	8,316
Snowmobiles			12,000	
Total Capital	38,975	127,790	176,000	173,964
All Totals	3,172,651	3,270,557	3,487,783	3,274,643

Donations to Baxter State Park		
Donations under \$1000		
1/1/2013 thru 12/31/2013		
Anonymous - Field Locations	Date	Amount
	6/30/2013	\$ 104.25
	7/31/2013	\$ 491.96
	8/31/2013	\$ 263.80
	9/30/2013	\$ 172.14
from lost and found	10/22/2013	\$ 103.83
	10/31/2013	\$ 177.48
	11/30/2013	\$ 40.00
	12/31/2013	\$ 10.00
Total		\$ 1,363.46
Anonymous - Reservation Office	Date	Amount
	6/30/13	\$ 5.50
	7/31/13	\$ 1.50
Total		\$ 7.00

Individual Donations	Date	Amount
Jame & Susan Lowe	1/8/13	\$ 250.00
Arthur & Mary Donahue	1/14/13	\$ 40.00
Mary Ellen McDonald/Vrabel*	1/16/13	\$ 100.00
Carla Ritchie/LL Bean/ Vrabel*	1/22/13	\$ 75.00
Gary & Karen Dauer/Vrabel*	1/22/13	\$ 18.00
TRC/ Vrabel*	1/23/13	\$ 50.00
Jean & John Hoekwater/Vrabel*	1/24/13	\$ 25.00
Jensen & Sheilah Bissell/Vrabel*	1/28/13	\$ 25.00
Linda & Allen Hotchkiss/Vrabel*	2/6/13	\$ 30.00
Ralph & Jean Pope/Vrabel*	2/6/13	\$ 500.00
Second Wind Softball/Vrabel*	2/8/13	\$ 103.00
Brendan Curran/Vrabel*	2/13/13	\$ 100.00
Sherley Helms/Ron Ticomb/Vrabel*	2/13/13	\$ 30.00
Douglas Baston	2/15/13	\$ 100.00
Judith Marden/Vrabel*	2/25/13	\$ 100.00
Virginia Mac Donald/ Vrabel*	2/25/13	\$ 100.00
James Garland & Carol Andreae	2/26/13	\$ 500.00
Helen Michelson	3/22/13	\$ 50.00
Amanda & Steve Rowe	4/12/13	\$ 200.00
Warren High School	6/15/13	\$ 75.00
Craig Zaihring	8/12/13	\$ 275.00
Maxim Langstaff	8/17/13	\$ 150.00
Rabbit Content LLC	9/4/2013	\$ 100.00
Jeffrey Guesman	11/25/2013	\$ 50.00
Melissa Johnson	12/6/2013	\$ 250.00
Edward Hamara	12/23/2013	\$ 250.00
Frederick Wallace/Vrabel*	12/24/2013	\$ 50.00
*Donated in memeory of Tim Vrabel		
Total		\$ 3,596.00

Total		\$ 3,596.00
Don. Over \$1000	Date	Amount
Baxter Park Wilderness Fund	1/3/2013	\$ 31,000.00
Baxter Park Wilderness Fund	4/4/2013	\$ 31,000.00
Baxter Park Wilderness Fund	7/1/2013	\$ 32,500.00
Baxter Park Wilderness Fund	10/15/2013	\$ 32,500.00
Ed Hawkins	12/2/2013	\$ 3,000.00
Total		\$130,000.00

Donation Purchases	Date	Amount
Park donation	1/23/2013	\$ 31,000.00
Supplies to Chimney	4/9/2013	\$ 144.71
Frames and Flys - SAR tents	4/22/2013	\$ 44.25
Park donation	4/22/2013	\$ 31,000.00
canoes and kayaks	6/5/2013	\$ 1,474.98
Park donation	7/16/2013	\$ 32,500.00
Frames and Flys - SAR tents	8/29/2013	\$ 1,835.00
cross cut saw - trail maintenance	9/24/2013	\$ 198.38
canoes and kayaks	10/18/2013	\$ 2,221.38
Park donation	10/22/2013	\$ 32,500.00
Total		\$132,918.70

F. APPENDICES

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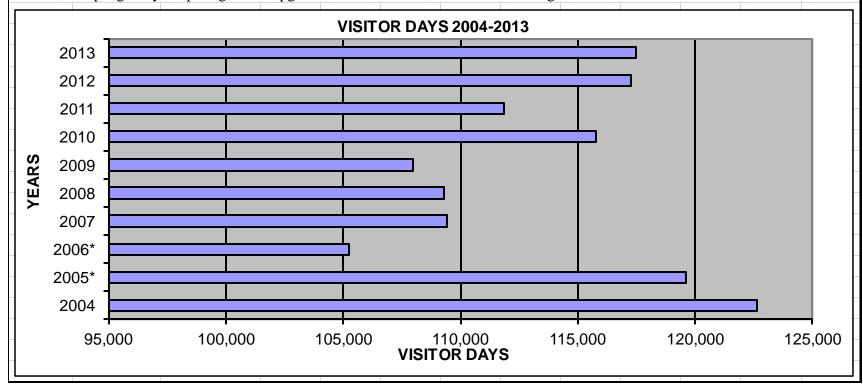
BAXTER STATE PAR	V Compon	Night C		2012												
TOTAL CAMPER NIGH	-	_	50.627	- 2013				% OF						% OF		
TOTAL CAMPERS (Sur	•	1	21,476					SUMMER)					WINTER	CAMP	%
NIGHTS PER CAMPER		•	2.36					CAMPER					WINTER	CAMPER		PARK
TOTAL TEXT CAN EX	,	JUNE	JULY	AUG.	SEPT.		TOTAL	NIGHT		JAN.	FEB.	MAR.	TOTAL*		TOTAL	
CAMPGROUNDS	1,111	00112	0021	110 01	021 10	001.	101112	1110111	220	01211	122,	1,11111	101112	1110111	101112	101112
Roaring Brook	225	1130	1743	1800	1281	491	6670	16%	36	95	219	154	504	15%	7174	16%
Abol	98	732	1464	1773	865	320	5252	13%	30	51	78	57	216	6%	5468	12%
Katahdin Stream	217	1164	1625	1822	1197	445	6470	16%	14	20	3	0	37	1%	6507	14%
Daicey Pond	243	610	849	921	759	359	3741	9%	50	90	269	142	551	16%	4292	10%
Kidney Pond	250	602	852	1033	798	359	3894	9%	0	16	125	28	169	5%	4063	9%
Nesowadnehunk	CLOSED	275	711	1305	511	279	3081	7%	9	11	23	50	93	3%	3174	7%
Trout Brook Farm	20	45	359	801	112	51	1388	3%	26	12	27	2	67	2%	1455	3%
S. Branch Pond	79	312	1712	2506	1016	518	6143	15%	12	30	179	47	268	8%	6411	14%
Russell Pond	52	177	401	575	352	134	1691	4%	8	21	33	26	88	3%	1779	4%
Chimney Pond	CLOSED	557	824	971	715	331	3398	8%	100	228	534	506	1368	40%	4766	11%
Togue Pond							0	0%	4	3	12	0	19	1%	19	
Campground Total	1184	5604	10540	13507	7606	3287	41728	82%	289	577	1502	1012	3380	100%	45108	84%
GROUP AREAS																
Bear Brook	0	221	683	668	251	122	1945	32%							1945	32%
Foster Field	243	212	695	691	136	104	2081	34%							2081	34%
Nesowadnehunk	CLOSED	80	436	630	96	101	1343	22%		C L	. 0	S E	D		1343	22%
Trout Brook Farm	3	65	184	466	28	6	752	12%							752	12%
Group Area Total	246	578	1998	2455	511	333	6121	12%							6121	11%
OUTLYING SITES																
S. Branch Pond	20	44	70	106	81	16	337	12%							337	12%
Fowler	62	51	52	101	51	21	338	12%							338	12%
Webster	134	92	176	234	101	33	770	28%							770	28%
AT Shelter/Thr Birches	1	15	169	169	143	68	565	20%		C L	. 0	S E	D		565	20%
Davis	CLOSED	13	63	59	36	31	202	7%							202	7%
Wassataquoik Area	10	42	105	242	152	15	566	20%							566	20%
Katahdin Lakes	12	65	85	139	91		392	14%							392	14%
Outlying Total	239	322	635	911	655	184	2778	5%							2778	5%
TOT. CAMP NIGHTS	1669	6504	13173	16873	8772	3804	50627	100%	289	577	1502	1012	3380	100%	54007	100%
% OF PARK TOTAL	3%	12%	24%	31%	16%	7%	94%		1%	1%	3%	2%	6%		100%	

BAXTER STATE PARK **COMPARATIVE STATISTICS - VISITOR DAYS** 2004 - 2013 **VISITOR DAY STATISTICS:** 2005* 2008 2010 2011 2012 2004 2006* 2007 2009 2013 117,274 103,196 106,449 107,551 106,544 106,592 114523 109265 115828 114101 TOTAL SUMMER VISITOR DAYS 2,323 2,054 1,873 2741 1,396 1240 2597 1420 TOTAL WINTER VISITOR DAYS 2,410 3380 122,630 119,597 105,250 109,424 109,285 107,988 115,763 111,862 117,248 117,481 TOTAL PARK VISITOR DAYS

Visitor day = camper nights + gatehouse headcount

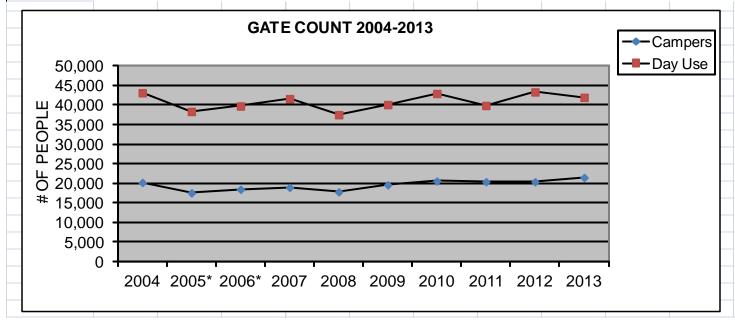
(A visitor staying in the park two nights would spend three days in the Park. Camper nights counts the nights in the Park, gatehouse headcount adds the extra camper day plus includes day users.)

* 2005, late spring delayed opening trails/cmpgrds for 2 weeks. 2006, Neso closed during June. Aval Fld moved to Bear Brook.



BAXTER ST	ATE PAF	RK								
COMPARAT	TIVE GAT	TEHOUS	E STATIS	TICS 20	004 - 2013					
PERSONS	2004	2005*	2006*	2007	2008	2009	2010	2011	2012	2013
Resident	35,483	31,972	33,402	34,874	31,577	34,992	36,717	34,106	36,352	34,085
Non-resident	28,057	24,095	25,014	25,850	23,862	24,869	26,904	26,255	27,341	29,389
TOTAL	63,540	56,067	58,416	60,724	55,439	59,861	63,621	60,361	63,693	63,474
Campers	20,195	17,552	18,455	18,941	17,808	19,599	20,577	20,415	20,373	21,476
Day Use	43,113	38,338	39,720	41,612	37,506	40,096	42,913	39,850	43,319	41,921
Walk/Bike	232	177	241	171	125	166	131	85	1	77
TOTAL	63,540	56,067	58,416	60,724	55,439	59,861	63,621	60,350	63,693	63,474
VEHICLES	2,004	2,005	2,006	2,007	2,008	2,009	2,010	2,011	2,012	2,013
Togue Pond	19,893	17,163	18,260	20,822	17,485	18,991	18,677	18,322	20,760	20,690
Matagamon	4,388	3,992	4,322	6,834	3,239	3,543	3,485	3,357	3,234	2,922
TOTAL	24,281	21,155	22,582	27,656	20,724	22,534	22,162	21,679	23,994	23,612
*Walk/Bike t	allied und	ler reside	nts	•	,				•	

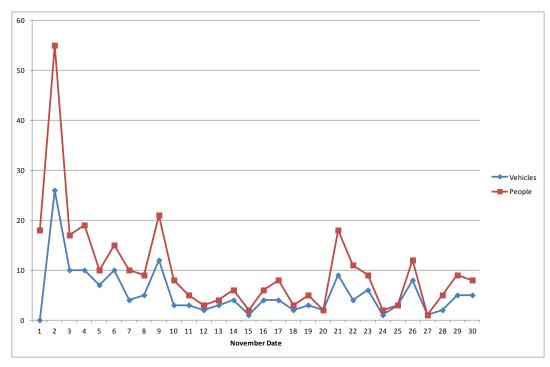
* 2005, delayed opening trails/cgs for 2 wks. 2006, Nes closed during June. Aval Fld moved to Bear Brook.



BAXTER STATE P	ARK - G	ATE COU	NTS - PE	OPLE P	ER MONT	H 2011		TOTAL	
	C	AMPERS	;		DAY USE		WALK/	BY	% OF
	RES N	NON-RES	TOTAL	RES	NON-RES	TOTAL	BIKE	MONTH	TOTAL
MAY									
Togue Pond	420	280	700	747	380	1127	0	1827	
Matagamon	93	36	129	267	32	299	1	429	
Total MAY	513	316	829	1014	412	1426	1	2256	4%
JUNE									
Togue Pond	1315	1522	2837	2691	2112	4803	14	7654	
Matagamon	183	42	225	444	131	575	4	804	
Total JUNE	1498	1564	3062	3135	2243	5378	18	8458	13%
JULY									
Togue Pond	2080	2589	4669	4764	4473	9237	10	13916	
Matagamon	674	224	898	980	279	1259	2	2159	
Total JULY	2754	2813	5567	5744	4752	10496	12	16075	25%
AUGUST									
Togue Pond	2504	2688	5192	5809	5446	11255	17	16464	
Matagamon	873	367	1240	890	383	1273	0	2513	
Total AUGUST	3377	3055	6432	6699	5829	12528	17	18977	30%
SEPTEMBER									
Togue Pond	1742	1608	3350	3235	3205	6440	16	9806	
Matagamon	333	134	467	386	169	555	5	1027	
Total SEPTEMBE	2075	1742	3817	3621	3374	6995	21	10833	17%
OCTOBER									
Togue Pond	774	761	1535	2281	2291	4572	6	6113	
Matagamon	166	68	234	357	169	526	2	762	
Total OCTOBER	940	829	1769	2638	2460	5098	8	6875	11%
TOTALS BY	11157	10319		22851	19070				
USE CATEGORY			21476			41921	77	63474	100%
% OF TOTAL USE			34%			66%	0.1%		
% BY CATAGORY	CAMPING	3		DAYUSE			TOTAL	RES/NO	N-RES
RES/NON-RES*	52%	48%		55%	45%			54%	46%
* Walk/Bike counted	as Resider	nts							

					RESI	ERVA	TION (OFFIC	E STA	ATS - 20	012 SE/	ASON						
		Site Nights	Total Campers	Adults	Junior	Child	Counter Reservations	Mail Reservations	Radio Reservations	Telephone Reservations	Winter Reservations	Internet Reservations	Telephone Calls	Office Visitors	Mail Received	Information Packets Sent	Videos Shown	Dupr Res
	Jan	698	698	698	0	0	113	74	0	0	20	0	300	150	85	12	0	0
	February	1433	1433	1433	0	0	19	205	0	0	18	0	420	98	215	15	0	0
	March	1553	1553	1553	0	0	24	549	0	0	6	0	501	90	600	15	0	0
	April	0	0	0	0	0	36	916	0	0	0	0	700	92	1015	10	0	0
	May	2963	2963	2665	290	8	55	793	11	161	0	0	1000	150	817	17	5	0
	June	9618	9618	8525	963	130	42	404	100	412	0	403	1600	325	420	15	20	25
	July	18949	21622	15646	2988	2988	315	83	114	502	0	601	1852	400	100	12	20	137
	August	23259	23259	19936	2933	390	42	73	132	435	0	489	1805	320	90	10	40	166
	September	12855	12855	12598	204	53	43	24	123	303	0	277	1500	225	35	8	20	78
	October	5361	5361	5249	97	15	23	7	34	95	0	57	400	60	29	5	5	35
	November	0	0	0	0	0	26	74	0	0	100	0	285	90	87	5	0	0
	December	289	289	289	0	0	4	46	0	0	50	0	200	50	55	5	0	0
2012	TOTALS	76978	79651	68592	7475	3584	742	3248	514	1908	194	1827	10563	2050	3548	129	110	441
2013	TOTALS	29361	83542	79248	4068	226	319	708	493	3306	126	3703	10576	2127	961	130	126	363
		RESERVAT		ICE ST	ATS -	2013			su		suc	suc	ø			sts	_	
		Site Nights	Total Campers	Adults	Junior	Child	unter Reservati	Mail Reservation	adio Reservatio	Telephone Reservations	inter Reservatio	ernet Reservation	Telephone Calls	Office Visitors	Mail Received	formation Packe Sent	Videos Shown	Dupr Res
	Lon						Counter Reservations	Mail Reservations	Radio Reservations		Winter Reservations	Internet Reservations				Informa		
	Jan	393	577	577	0	0	96	53	0	20	86	30	320	160	120	5	0	0
	February	393 923	577 1510	577 1498	0 12	0	96 13	53 66	0	20 93	86 30	30 78	320 500	160 96	120 75	5 15	0	0
	February March	393 923 661	577 1510 1010	577 1498 1010	0 12 0	0 0 0	96 13 17	53 66 170	0 0	20 93 261	86 30 10	30 78 326	320 500 626	160 96 91	120 75 190	5 15 10	0 0	0 0
	February March April	393 923 661 0	577 1510 1010 0	577 1498 1010 0	0 12 0	0 0 0	96 13 17 8	53 66 170 201	0 0 0	20 93 261 451	86 30 10	30 78 326 498	320 500 626 710	160 96 91 100	120 75 190 220	5 15 10 10	0 0 0	0 0 0
	February March April May	393 923 661 0 1358	577 1510 1010 0 3450	577 1498 1010 0 3300	0 12 0 0	0 0 0 0	96 13 17 8 21	53 66 170 201 108	0 0 0 0 0 30	20 93 261 451 505	86 30 10 0	30 78 326 498 576	320 500 626 710 1200	160 96 91 100 120	120 75 190 220 130	5 15 10 10 20	0 0 0 0 5	0 0 0 0
	February March April May June	393 923 661 0 1358 3894	577 1510 1010 0 3450 10879	577 1498 1010 0 3300 10582	0 12 0 0 141 288	0 0 0 0 9	96 13 17 8 21 38	53 66 170 201 108 45	0 0 0 0 0 30 71	20 93 261 451 505 571	86 30 10 0 0	30 78 326 498 576 607	320 500 626 710 1200 1890	160 96 91 100 120 270	120 75 190 220 130 100	5 15 10 10 20 15	0 0 0 0 5 21	0 0 0 0 0 0 36
	February March April May June July	393 923 661 0 1358 3894 6757	577 1510 1010 0 3450 10879 21447	577 1498 1010 0 3300 10582 19436	0 12 0 0 141 288 1939	0 0 0 0 9 9	96 13 17 8 21 38 39	53 66 170 201 108 45 25	0 0 0 0 30 71 91	20 93 261 451 505 571 499	86 30 10 0 0	30 78 326 498 576 607 619	320 500 626 710 1200 1890 1880	160 96 91 100 120 270 390	120 75 190 220 130 100 50	5 15 10 10 20 15	0 0 0 0 5 21 20	0 0 0 0 0 36 108
	February March April May June July August	393 923 661 0 1358 3894 6757 7729	577 1510 1010 0 3450 10879 21447 24890	577 1498 1010 0 3300 10582 19436 23210	0 12 0 0 141 288 1939 1583	0 0 0 0 9 9 72 97	96 13 17 8 21 38 39 34	53 66 170 201 108 45 25 26	0 0 0 0 30 71 91 119	20 93 261 451 505 571 499 459	86 30 10 0 0 0 0	30 78 326 498 576 607 619 549	320 500 626 710 1200 1890 1880 2200	160 96 91 100 120 270 390 420	120 75 190 220 130 100 50 36	5 15 10 10 20 15 15	0 0 0 0 5 21 20 50	0 0 0 0 0 36 108 134
	February March April May June July August September	393 923 661 0 1358 3894 6757 7729 5367	577 1510 1010 0 3450 10879 21447 24890 13803	577 1498 1010 0 3300 10582 19436 23210 13722	0 12 0 0 141 288 1939 1583 52	0 0 0 0 9 9 72 97 29	96 13 17 8 21 38 39 34 44	53 66 170 201 108 45 25 26 13	0 0 0 0 30 71 91 119	20 93 261 451 505 571 499 459 331	86 30 10 0 0 0 0 0	30 78 326 498 576 607 619 549 355	320 500 626 710 1200 1890 1880	160 96 91 100 120 270 390 420 250	120 75 190 220 130 100 50 36	5 15 10 10 20 15 15 18	0 0 0 0 5 21 20 50	0 0 0 0 0 36 108 134 65
	February March April May June July August September October	393 923 661 0 1358 3894 6757 7729 5367 2279	577 1510 1010 0 3450 10879 21447 24890 13803 5976	577 1498 1010 0 3300 10582 19436 23210 13722 5913	0 12 0 0 141 288 1939 1583 52 53	0 0 0 9 9 72 97 29	96 13 17 8 21 38 39 34	53 66 170 201 108 45 25 26	0 0 0 0 30 71 91 119 119 63	20 93 261 451 505 571 499 459 331	86 30 10 0 0 0 0	30 78 326 498 576 607 619 549 355 65	320 500 626 710 1200 1890 1880 2200	160 96 91 100 120 270 390 420	120 75 190 220 130 100 50 36	5 15 10 10 20 15 15	0 0 0 0 5 21 20 50	0 0 0 0 0 36 108 134
	February March April May June July August September October November	393 923 661 0 1358 3894 6757 7729 5367	577 1510 1010 0 3450 10879 21447 24890 13803	577 1498 1010 0 3300 10582 19436 23210 13722	0 12 0 0 141 288 1939 1583 52	0 0 0 0 9 9 72 97 29	96 13 17 8 21 38 39 34 44	53 66 170 201 108 45 25 26 13	0 0 0 30 71 91 119 119 63	20 93 261 451 505 571 499 459 331 116	86 30 10 0 0 0 0 0	30 78 326 498 576 607 619 549 355 65	320 500 626 710 1200 1890 1880 2200	160 96 91 100 120 270 390 420 250	120 75 190 220 130 100 50 36	5 15 10 10 20 15 15 18	0 0 0 0 5 21 20 50	0 0 0 0 0 36 108 134 65
	February March April May June July August September October	393 923 661 0 1358 3894 6757 7729 5367 2279	577 1510 1010 0 3450 10879 21447 24890 13803 5976	577 1498 1010 0 3300 10582 19436 23210 13722 5913	0 12 0 0 141 288 1939 1583 52 53 0	0 0 0 9 9 72 97 29	96 13 17 8 21 38 39 34 44	53 66 170 201 108 45 25 26 13	0 0 0 0 30 71 91 119 119 63	20 93 261 451 505 571 499 459 331	86 30 10 0 0 0 0 0	30 78 326 498 576 607 619 549 355 65 0	320 500 626 710 1200 1890 1880 2200	160 96 91 100 120 270 390 420 250 230	120 75 190 220 130 100 50 36	5 15 10 10 20 15 15 18	0 0 0 0 5 21 20 50	0 0 0 0 36 108 134 65

	/alues	
Nov <u> </u>	/ehicles	People
1	0	18
2	26	55
3	10	17
4	10	19
5	7	10
5 6 7	10	15
7	4	10
8	5	9
9	12	21
10	3	8
11	3	5
12	2	3
13	3	4
14	4	6
15	1	2
16	4	6
17	4	8
18	2	3
19	3	5
20	2	2
21	9	18
22	4	11
23	6	9
24	1	2
25	3	3
26	8	12
27	1	1
28	2	5
29	5	9
30	5	8
Grand	159	304



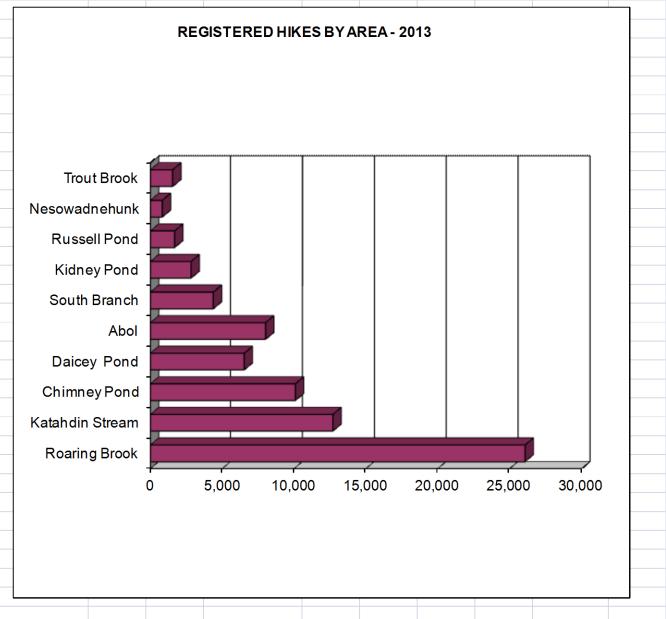
BAXTER STATE PAR	RK								
TRAIL USE SUMMARY - 2013									
REGISTERED HIKES	S PER 1	PERSO	N PER	TRAII	_				
			MON	HTN			TRAIL	AREA	% OF
TRAIL NAME	MAY	JUN	JUL	AUG	SEPT	OCT	TOTAL	TOTAL	TOTAL
KATAHDIN STREAM	1:								
Hunt	222	1,539	2,759	3,213	2,046	1,214	10,993		
Owl	32	60	134	73	54	59	412		
Grassy Pond	0	22	82	93	194	14	405		
O.J.I.	10	43	82	76	134	0	345		
A.T. South	8	155	164	12	2	68	409		
Blueberry Ledges	0	0	33	43	48	4	128		
KAT STR TOTALS	272	1,819	3,254	3,510	2,478	1,359	12,692	12,692	17%
ABOL:									
Abol Trail	128	574	1,203	1,572	878	477	4,832		
Abol Falls	7	52	113	77	60	38	347		
Abol Pond/Stream	11	10	75	15	9	25	145		
Blueberry Ledges	23	48	257	361	138	45	872		
AT North	11	118	128	348	383	198	1,186		
Foss & Knowlton	0	8	22	7	12	4	53		
Kettle Ponds	6	16	20	40	30	30	142		
Cranberry Pond	12	21	126	80	140	57	436		
ABOL TOTALS	198	847	1,944	2,500	1,650	874	8,013	8,013	11%
ROARING BROOK:									
Chimney	1	1,777	3,574	4,073	2,732	1,337	13,494		
Helon Taylor	49	429	622	858	575	294	2,827		
Sandy Stream	454	1,263	1,906	1,531	1,140	726	7,020		
South Turner	64	96	186	201	127	96	770		
Russell Pond	16	94	249	281	219	60	919		
Nature Trail	6	15	40	20	4	15	100		
Katahdin Lake	2	104	187	241	176	105	815		
Martin Ponds	2	24	14	24	22	5	91		
North Katahdin Lake	2	5	4	11	4	2	28		
Rum Pond	0	0	0	0	0	0	0		
RRG BK TOTALS	596	3,807	6,782	7,240	4,999	2,640	26,064	26,064	35%

SOUTH BRANCH PO	ND:								
South Branch Falls	16	96	286	375	185	81	1,039		
Ledges	5	25	140	232	131	69	602		
Howe Brook	6	33	181	244	94	59	617		
North Traveler	7	39	192	422	134	48	842		
Center Ridge	3	3	23	34	25	4	92		
Traveler Loop	5	32	66	109	108	53	373		
South Branch Mountain	0	11	71	143	45	16	286		
Pogy Notch	31	28	111	125	80	44	419		
Middle Fowler	2	4	21	56	18	6	107		
Burnt Mountain	0	0	0	0	0	0	0		
SO BRANCH TOTAL	75	271	1,091	1,740	820	380	4,377	4,377	6%
NESOWADNEHUNK	:								
Double Top	56		78	264			398		
Marston	23		65	188			276		
Wassataquoik Lake Trail	6		12	86			104		
Dwelley Trail	7		15	26			48		
NESO TOTALS	92	0	170	564	0	0	826	826	1%
TRAIL NAME	MAY	JUN	JUL	AUG	SEPT	OCT	TOTAL	TOTAL	TOTAL
CHIMNEY POND:*									
Dudley	C	231	419	473	323	165	1,611		
Cathedral	L	612	542	1,477	885	527	4,043		
Saddle	О	402	1,087	1,297	891	412	4,089		
Hamlin	S	37	13	44	74	19	187		
North Basin	Е	22	12	42	22	14	112		
NorthWest Basin	D	0	7	14	13	5	39		
North Peaks		0	0	0	3	3	6		
CHIMNEY TOTALS	0	1,304	2,080	3,347	2,211	1,145	10,087	10,087	14%

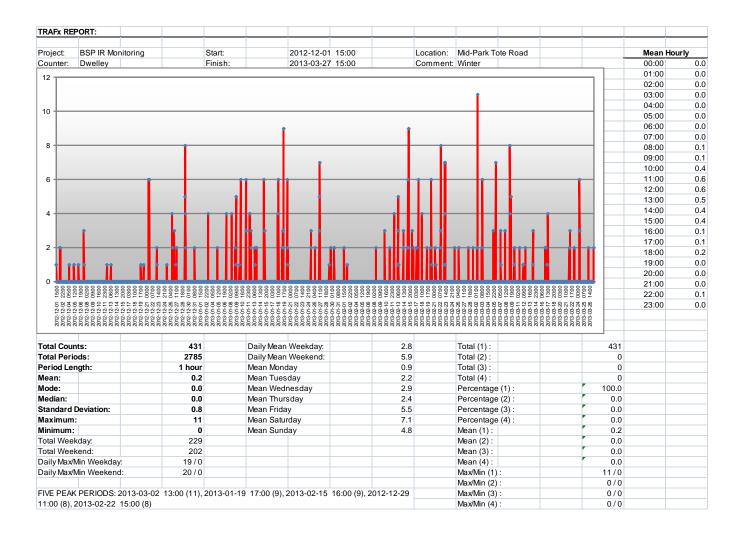
DAICEY POND:									
Niagara Falls	221	545	1,167	1,577	763	442	4,715		
Daicy Pond Nature Trail	30	60	93	112	117	49	461		
Lost Pond Trail	26	19	21	37	17	9	129		
Sentinel Mt. Trail	0	0	0	0	0	0	0		
A.T. to Katahdin	3	12	54	98	156	46	369		
Daicey to Grassy	36	39	60	33	26	13	207		
Daicey to Elbow	2	4	35	14	14	7	76		
Daicey to Kidney	0	0	0	0	3	0	3		
DAICEY TOTALS	318	679	1,430	1,871	1,096	566	5,960	6,526	9%
KIDNEY POND:									
Double Top	54	42	51	139	107	62	455		
Sentinel Mountain	128	117	290	378	175	113	1,201		
Rocky Pond	37	89	81	113	80	66	466		
Draper Pond	15	23	14	85	31	30	198		
Kidney Pond Circuit	0	0	0	0	6	21	27		
Celia & Jackson	19	61	46	36	55	24	241		
Windy Pitch/Niagara/ Lily	0	27	17	22	28	10	104		
Slaughter Pond	5	34	18	29	32	15	133		
KIDNEY TOTALS	258	393	517	802	514	341	2,825	2,825	4%
RUSSELL POND:									
Russell Pond Trail		18	64	116	42	11	251		
Wassataquoik Stream	3	36	80	120	72	19	330		
Pogy Notch Trail	2	10	33	27	29	7	108		
Wassataquoik Lake	24	49	121	165	77	41	477		
North West Basin Trail	0	20	79	99	35	25	258		
Grand Falls Trail	4	15	50	73	12	15	169		
Lookout Trail	2	22	21	28	15	2	90		
North Peaks	0	1	3	26	1	14	45		
RUSSELL TOTALS	35	171	451	654	283	134	1,728	1,683	2%
TROUT BROOK FAR									
Horse Mountain	7	26	56	92	36	24	241		
Five Ponds	27	38	47	93	54	7	266		
Fowler Pond	24	58	69	91	92	20	354		
Freezeout	16	26	62	59	30	16	209		
Frost Pond	0	8	3	10	11	0	32		
Trout Brook Mountain	1	21	98	198	53	47	418		
Wadleigh Brook	2	1	15	4	7	0	29		
TROUT BR. TOTAL	77	178	350	547		114	1,549	1,549	2%
MONTHLY TOTALS	1,921		· · · · · ·	22,775				74,642	100%
% OF TOTAL	3%	13%	24%	31%	19%	10%	100%	100%	

^{*}Early spring arrival allowed opening of Dudley, Cathedral, and Saddle Trails to open in May.

Roaring Brook	26,064		
Katahdin Stream	12,692		
Chimney Pond	10,087		
Daicey Pond	6,526		
Abol	8,013		
South Branch	4,377		
Kidney Pond	2,825		
Russell Pond	1,683		
Nesowadnehunk	826		
T rout Brook	1,549		



	Baxte	er State	Park					
Fina	I Snowm	obile A	ctivity	Repo	ort			
	Winte	r 2012	- 2013					
					12-13	11-12	10-11	09-10
Togue and Matagamon	areas (Inte	erior / To	te Rd.)				_	
Total snowmobile counts	from Matag	jamon and	d Togue g	gates:	3561	3368	3142	4059
Number of pedestrians co	ounted (goir	ng in & ou	t both ga	tes)*:	1232	1154	870	951
Total snowmobile counts	less nedes	trians:			2329	2214	2272	3108
One half the snowmobile			ne numbe	r	2020	2217	LLIL	0700
of actual snowmobiles that								
the Matagamon and Togu				J	1165	1107	1136	1554
BSP Tote Road through traffic.								
Total snowmobile counts,	•							
These numbers already of	aptured at	Togue and	d Mataga	mon:	431	774	438	776
Roaring Brook Road &	Katahdin	Lake Tra	il					
Roaring Brook Road sno	wmobile co	unt (less l	SSP visite	ors,				
including BSP staff, Kata	hdin Lake s	taff & visi	tors):		915**	795**	1176**	1233**
Katahdin Lake Tr. (includ	es K.L. & B	SP staff 8	k K.L. visi	tors):	535**	1005**	1043**	742**
A			. ,				1 4 7 1	
*The visitor numbers liste						ed towa	rd Abol,	
Katahdin Stream, Daicey	Pond, Kidr	ney Pond	and Nesc	owadr	enunk.			
**The counts for the Roar	ing Brook B	Pood and	Katahdin	Laka	Tr oro	totale		
The actual number (captu								
The actual number (captu	ing bor a	INL Stall)	would be	ııdıı,	C22 VL	งเอเเบเร		



I. OPERATIONAL HIGHLIGHTS AND OVERVIEW
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Law Enforcement Courtesy Warnings 131
USAC and VSAC Court Summary 132
Volunteers 133

Baxter State Park Search, Rescue & Injury log for 2013

. 0, 11 0	Harry Netzer	Chimney Pond	Frostbite
	Sasha Christiansen	Matagamon	Missing 5 year old child
•	David Torgerson	Sentinal Mtn.	Lost hiker
	Chip Jahnke	Russell Pd. / Little Wass.	Laceration over eye & lower leg-ankle injury
_	Nate Hunt	Hunt Trail	Dehydration
1	Dean Smith	Saddle Trail	Hypothermia
•	Gale, Sarvis, Curran	Wass. Stream Trail	Overdue hikers
•	George Dragonetti	Sebois Stream	Puncture wound left leg
,	Jean Thorton	Upper Saddle Trail	Twisted ankle
,	James Norris	Kidney Pond	Fall from porch
	Bill Hoag	North Brother	Elbow, back contusions & swelling from fall
1	Diane Landry	Chimney Pond Trail	Ankle injury
	Boulanger / Cadette	Traveler	lost, mild dehydration, exhaustion, facial swelling-bites
•	Alice Kerber	Chimney Pond Trail	Ankle injury
	Robert J. Trombley	Saddle Trail	Ankle injury & bruised leg
_	Diane Thureson	Baxter Peak, Katahdin	Pain in knee
•	Charlie Sleemen	Daicey Pond	Headaches
	Edward Hamara	Hunt Trail	Leg injury & lacerations
	Ryan Stanford	Helon Taylor / Chimney	Stuck on Knife Edge
,	Joe Stichter	Saddle Trail	Fatigue, leg weakness
_	indsay Vreeland	Saddle Trail	Rock rolled on ankle
,	Josh Brabham	Hunt Trail	Vomiting & exhaustion
•,	Stephanie Christian	Saddle Trail	General fatigue, muscle fatigue & vomiting
	Mariah Haven	Camp Natarswi	Respiratory distress
]	Dorothy O'Hanlon	Hunt Trail	Exhaustion
,	John Sooley	Hunt Trail	Fatigue, dehydration - diabetic
,	Jim Sutton	Chimney Pond	Fatigue & exhaustion
_	indsay Tufts	Katahdin Stream	Bug bite on eyelid
J	Sherri Faulkner	Hunt Trail	Possible broken hand
	an Lande	Saddle Trail	Knee pain

Baxter State Park Search, Rescue & Injury log for 2013, continued

<u>DATE</u>	NAME	LOCATION	PROBLEM
7/27	Nan Stancioff	Chimney Pond Trail	Twisted ankle
7/27	Heckin Von-Schwaad	Upper Saddle Trail	Slip / fall head laceration
7/31	William Kimbrough	Chimney Pond	Fatigue / exhaustion
8/3	Diane McCrae	Roaring Brook	Lost hiker
8/3	Graham	Togue Pond Gate	Wasp sting
8/3	Casey Murphy	Daicey Pond	Fall / laceration
8/2	Richard Hartzell	Chimney Pond Trail	Slipped / fell, cut & scraped face and knee
9/8	David Press	Chimney Pond Trail	Slipped / fell, cut head and ear
8/10	Jeff Peisner	1st Cathedral	Cramps in legs
8/12	Keith Greenfield	Hunt Trail	Lost off-trail
8/13	Melissa Krussell	David Pond	Abdominal pain & nausea
8/13	Olga Arapira	Daicey Pond	Hives, allergy reaction
8/14	Joe Marley	Chimney Pond Trail	Foot pain with arm lacerations
8/14	Tom Moylan	Hunt Trail	Back spasms
8/15	Clifton lves	Cathedral Trail	Fall with abrasion on forehead
8/17	Rebecca Alex	Hunt Trail	Fatigue
8/17	Tristan Colby	Abol Trail	Separated from party
8/22	Adelaide Maloney	Ledge Falls	Slipped on rocks, hit back of head
8/23	Martin Hejda	Abol Trail	Arm & tail bone injury
8/27	Spencer / Robinson	Hunt Trail	Spent night out /exhaustion
8/29	Will Boothby	Kidney Pond	Missing 14 y/o male
8/30	Jeff Roberts	Cathedral Trail	Injured ankle
8/31	Hannah Folsom	Saddle Trail	Injured ankle
1/6	Gail / Martin	Hunt Trail	Spent night out, mild knee sprain, exhaustion
1/6	Gaelle Bracka	Hunt Trail	Exhaustion, fear, unconsciousness
2-9/6	Maurice Morneault	Katahdin	Lost hiker
9/18	Carlos Pena	1st Cathedral	From fall - cut lip, nose bleed, left hand & calf
9/18	Record-Grauer	Abol Trail	Needed general assistance
9/22	Brian Lapierre	Wass. Lake Island	Laceration to thumb
10/6	Mona McFarland	Helon Taylor Trail	Ankle injury

BSP LAW ENFORCEMENT COURTESY WARNINGS 2013

DATE	CASE#	LOCATION	NAME	VIOLATION	DESCRIPTION
3/3/2013	2013-57-01	TBF Campground	Lance R. Getchell	BSP Rule #5.8A	Snowmobiling in unauthorized area
3/3/2013	2013-57-01	TBF Campground	Michael Anderson	BSP Rule #5.8A	Snowmobiling in unauthorized area
6/9/2013	2013-56-03	Mountain View	Trevor Norman Smith	BSP Rule #5.4	Speeding violation
6/19/2013	2013-56-03	Togue Beach / Tote Rd.	Robert W. Sommer	BSP Rule #5.4	Speeding violation
7/15/2013	2013-57-02	Dry Brook / Tote Rd.	Jeffrey K. Clifford	BSP Rule #5.4	Speeding violation
7/15/2013	2013-57-03	Dry Brook / Tote Rd.	Adam B. Hutchinson	BSP Rule #5.4	Speeding violation
8/2/2013	2013-57-04	Abol area / Tote Rd.	Marc Belinguet	BSP Rule #5.4	Speeding violation
8/17/2013	2013-56-05	Trout Brook Farm CG	Katelyn Acott	BSP Rule #4.4	Unattended fire at campsite
8/28/2013	2013-56-06	Daicey Pond	Michael L. Lew	Title 17A §2003-A	Open alcohol container in public place
8/28/2013	2013-56-07	Daicey Pond	Scott M. Johnston	Title 17A §2003-A	Open alcohol container in public place
8/28/2013	2013-56-08	Daicey Pond	Grant K. Heifcamp	Title 17A §2003-A	Open alcohol container in public place
8/28/2013	2013-56-09	Daicey Pond	Dean M. Perach	Title 17A §2003-A	Open alcohol container in public place
8/28/2013	2013-56-10	Daicey Pond	Daniel L. Ketchel	Title 17A §2003-A	Open alcohol container in public place
8/28/2013	2013-56-11	Daicey Pond	Justin A. Myers	Title 17A §2003-A	Open alcohol container in public place
8/28/2013	2013-56-12	Daicey Pond	Avi D. Davidoff	Title 17A §2003-A	Open alcohol container in public place
8/28/2013	2013-56-13	Daicey Pond	Mark R. Lopson	Title 17A §2003-A	Open alcohol container in public place
9/2/2013	2013-58-07	BSP Tote Road	Patrick Kennedy	BSP Rule #5.4	Speeding violation
9/21/2013	2013-59-02	Abol Campground	Terrence F. O'Connor	BSP Rule #5.2	Parking violation
9/28/2013	2013-59-03	Jctn. RB & BSP Tote Rds. Luc Dallaire	Luc Dallaire	BSP Rule #2.2	Unauthorized access to restricted area

2013 BSP USAC COURT CASES

DATE	CASE#	NAME	VIOLATION	DESCRIPTION	FINE	DISPOSITION	TYPE
5/5/2013	2013-58-01	Tyler R. Pelletier	BSP Rule #1.2	Camping in unauthorized area	\$200	Guilty	Cixi
5/5/2013	2013-58-01	Robert J. Cooper	BSP Rule #1.2	Camping in unauthorized area	\$200	Guilty	Civil
5/5/2013	2013-58-01	James Cormier	BSP Rule #1.2	Camping in unauthorized area	\$200	Guilty	Civil
5/5/2013	2013-58-01	Tyler R. Pelletier	BSP Rule #4.3	Campfire in undesignated area	\$200	Guilty	Civil
5/5/2013	2013-58-01	Robert J. Cooper	BSP Rule #4.3	Campfire in undesignated area	\$200	Guilty	Civil
5/5/2013	2013-58-01	James Cormier	BSP Rule #4.3	Campfire in undesignated area	\$200	Guilty	Civil
5/5/2013	2013-58-02	Joseph J. Mecure	BSP Rule #2.2	Hiking in restricted area	\$200	Guilty	Civil
7/1/2013	2013-59-01	Mark Osterman	BSP Rule #2.2	Child under 6 above treeline	\$200	Guilty	Civil
7/16/2013	2013-58-03	Jeffrey S. Lane	BSP Rule #2.2	Child under 6 above treeline	\$200	Guilty	Civil
8/25/2013	2013-57-05	Aleshia J. Tarr	BSP Rule #5.4	Speeding violation	\$200	Guilty	Civil
8/25/2013	2013-57-06	Karl K. Kittredge	BSP Rule #1.2	Camping in unauthorized area	\$200	Guilty	Civil
8/31/2013	2013-58-04	Annaliese J. Higgins	BSP Rule #1.2	Camping in unauthorized area	\$200	Guilty	Civil
9/1/2013	2013-58-05	MaryAnn Bates	BSP Rule #2.2	Child under 6 above treeline	\$200	Guilty	Civil
9/12/2013	2013-56-14	Earl R. Lucas	BSP Rule #1.2	Camping in unauthorized area	\$200	Guilty	Civil
			2013 BSP \	2013 BSP VSAC TRAFFIC INFRACTIONS	ONS		
DATE	CASE#	NAME	VIOLATION	DESCRIPTION	FINE	DISPOSITION	TYPE
9/2/2013	2013-58-06	Christopher M. Nowinski	Speeding	25mph speed in posted 20mph zone	\$119	Guilty	Civil

Thank You!	Volunteers	Thank You!
Phillip Ahrens	Blake Bourque	Nelda Clelland
Daniel Aldrick	James Brace	Dave Clement
Reodo Amaury	Jocelyn Bradbury	John Colarusso
Julia Ametler	Jane Brann	Kourtney Collum
Raymond Anderson	Joseph Brasslett	Dakota Condon
David Asherman	Amy Brasslett	Grant Connors
Joseph Auclair	Loren Brasslett	Vanessa Cousins
Michelle Austin	Rick Bray	Julie Cox
William Babb	Katrina Brittain	Robert Cressey
Barbara Babb	Steve Brittain	Henry Cunningham
James Bailey	Dorian Brittain	Andy Cutko
Chris Bailey	Dennis Brodeur	Nelson Daigle
Erik Bailey	Bob Brodeur	Gary A. Dean
Jinbae Bang	Barrie Brusila	Dylan DeFlorio
Bonnie Barden	Rob Bryan	Paul Delaney
James Barden	John Bryant	Lougoin Desmond
Richard Barrett	Scott Buck	Alison Dibble
Meg Baxter	Aliria Bulakh	Douglas Dolan
Ken Beach	John Bullard	Steffen Doyle
Gwendolyn Beacham	Yolanda Bulley	Chris Drew
Bryan Becker	Conrad Bulley	Kimberly Dro
Mary Ellen Bell	David Bulley	Jeremy Dubois
Barbara Bentley	Terri Bustanache	David Edwards
William Bentley	Ben Carlson	Eric Elander
Gunter Bernardini	Elizabeth Carroll	Nils Elander
Brenda Bernardini	Jared Cash	Chris Elander
Cedric Berthod	Buzz Caverly	Stephen Ellis
John Bialecki	Jim Chambers	Marie Emery
Betty Bibber	Susan Chase	Julie Ennamorati
Judith Bishop	Roy Chaston	Samara Ethien-Whitmore
Robert Bishop	Leah Clair	Laura Evans

Sheilah Bissell Nancy Jane Clark Laura Evans Jensen Bissell Steve Clarrage Colin Fagin Belle Fall Rebecca Hopkins Bill Lee Vicky Farrar **Robert Howes** Patrick Lee Cathy Fitzpatrick Peter Hulick Linda Lee Meghan Fitzpatrick Cody Humphry Katnna Lessarei **Annie Fitzpatrick** Anne Huntington Dean Levasseur Todd Flagg Jon Huntington Charity Levasseur Dan Flammini Stephen Hutnak John Levesque, Jr. **David Little** Christopher Flint Jeremy Isard Central School Steph Little Bill Foster **Trevor Fowles** Islesboro, ME Gerry Locke Diane Freelove Charles Jacobi Marilee Lovit William French Leonard Jahnke Cathy Lusk Ellie French **Ashley Johnson** Suzanne Lussier Ryan Gardent Tyler Jones Martha Lynch Samatha Jones Jack Lynch Connie Gatz Bernard Geishauser Ryan Jones Jeremy MacArthur **Ronald Gelinas** Barry MacArthur Samuel Kane Allison Kanoti **Edward George** Jane Macaulay Nate Karol Wendy Biggs David Mahoney Tom Goetz Nathan Karol Derek Markgren Loren Goode Erica Kaufmann Megan Markgren Leo Gosier Matt Martin **Evan James Kearney** Josiah Gray Sarah Keener Janelle Martin **Brian Gugger** Mary E. Kellogg Sally Mathews Mengting Guo Charlie Kenney Minna Mathiasson Isabella Haidl **Taylor McCafferty** Alex Kerney James B. Hamlin April McCann Mariah Kimball **Rosemary Hastings** Katrina Kinkead Kathleen McCarthy Shawn Kinkead Bernadette Healy Ethan McDonough Tim Heno Caitlan McDonough Nathan Kinney Jennifer Henry Richard Klain Betsy McGettian

Nicholas Henry Jonathan Hinson James Hodgdon, Jr. James Hodgdon, III Sophie Holbrook **Deb Hopkins** Spencer Meyer Kayla Michaud **Brant Miller** Barry Millman Susan Millman Catherine Mirick Glen Mittelhauser **Thomas Monteith** Dawn Morgan Karleigh Morton Gordon Mott Candace Muehleisen John Muehleisen Jerry Mulling Joshua Nagine Mark Nale Laurie Nale Gwendolyn Nale John Neff Nancy Nelson **Don Nodine** Deanna Oakes **Amber Oakes** Nick Oberti Jim O'Malley Kevin Osborne **Tracy Osborne**

Joe Kurlanski Damoella Landry Jaye Lauder Ken Lausten Alan Leathers Lisa Plimpton Cody Poland **Gerald Pound Thomas Powers** Cody Prandelli **Amber Ravell Douglas Rich** Laurie Rich Elaine Richard Steve Richard Tecla Ris Carla Ritchie Karly Robinson Igor Rodosavljeuc Rose Rodigue Paul M. Rosefeldt Pierre Rougny Abby Roy Marissa Rublee Matthew Ryle Evan Sackstein Joseph Saetta Sarah Sager John Scamman Franz Schmidt Jonathan Schmidt

Aleta McKeage **Bob McLaughlin Emily Meacham** Abbott Meader Nancy Meader Aaron Megquire **Julia Spiels** John St. Germain, II Rich Stabins Jeffrey Stanton Richard Ste. Croix **Kevin Strearns Robin Stevens** Mike Stillman John Szarowski Autumn Szarowski **Ouinn Szarowski** Elliott Szarowski **Debra Taylor** Melanie Taylor Coombs Dorothy Tepper **Christine Theriault** Ray Thomas Glenn Thomas **Dylan Thomas Sue Thomas Craig Troeger** Carl Van Husen MaryBeth Varney Vitor Vere Marianne Vere Johanna Veshey Frank Vietz

Don Schwartz

Hunter Scott

Matthew Page
Noah Pappano
Samantha Paradis
David Paris
Johah Paris
Hanna Paris
Jeff Pepin
Mike Perry
Kit Pfeiffer
Camp Wavus
Jeff Wescott
Ruth White
David Wilcox

Priscilla Seimer
Maxim Severnyak
Robert Seymour
Andrew Sheaff
Jen Sinsabaugh
John Skelley
Joshua Slaney
Keith Smith
Dakota Smith
Jesse Webster
Emily Whitaker
Rupert White
Joe Wiley
Marcia Williamson

Wasin Virattanofeulpaint
Jeff Vogive
Gardner Waldeier
Jordan Walker
Tripp Walker
Nancy Walker
Tripp Walker
Erica Walsh
Nancy J. Walsh
Aaron Weiskittel
Howard Whitcomb
Michael White
Rosemary Williams



Gabe Williamson

















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AGENDA

Spring 2013 Meeting, Baxter State Park Research Committee Thursday, March 28, 2013, 10AM-1 PM

Champlain Room, Maine Department of Public Safety
Augusta, Maine*

- I. Updates on Recent Field Work
 - A. Natural Community Mapping- Don Cameron, Maine Natural Areas Program
 - B. Baxter Flora surveys- Glen Mittelhauser
 - C. General update on Park database and annotated research bibliography
- II. Proposals for 2013 Field Season
 - A. "The effects of forest management in the Acadian Northern Hardwood Forests of Maine, on forest bird communities, with an emphasis on species of regional conservation priority and concern" Brian Rolek, U ME Orono.
 - B. "Inventory of ants of Baxter State Park, with a focus on communities above treeline", Aaron M. Ellison, Harvard University.
 - C. "Re-evaluation of Sub-alpine and Alpine Carabid Fauna of Baxter State Park",
 Robert E. Nelson, Colby College.
 - D. "Patch Occupancy, Habitat Use, and Population Performance of Spruce Grouse in Commercially Managed Conifer Stands", Dan Harrison, U ME, Orono.
- III New Directions
 - A. Monitoring/Inventories- is there a role for the Research Committee?
 - B. 2013 in-house monitoring dates and Baxter Flora survey dates

*Directions to the meeting:

Coming from the SOUTH: on I-295, take **exit 112-B (Augusta-Belgrade)** and bear right. Commerce drive is 1.2 miles from the interstate on the left along Route 27. Coming from the NORTH: on I-295, take **exit 112 (Augusta-Belgrade)** and bear right. Commerce drive is 1.2 miles from the interstate on the left along Route 27.

Dept. of Public Safety is the set of doors on the right hand side of the building behind the flagpoles with the State of Maine seal and U.S. flag on them.

Ants of Baxter Park: 2013 - The Travelers Range
Summary Report
Aaron M. Ellison
Harvard Forest
6 November 2013

The ant fauna of Baxter State Park has been little studied. An altitudinal transect up Mt. Katahdin was sampled using pitfall traps in the late 1980s (Daniel Jennings, personal communication), but the samples, sent to the Canadian National Collection in Ontario, were never identified and have been lost. Israel Del Toro, a Ph.D. student at the University of Massachusetts, collected ants along two transects along the Park Tote Road, just inside the north end of the park (46.16 North, -68.85 West) – one in forested habitat and one in open habitat - in July 2010. He collected 6 species: one specimen each of Myrmica americana, and Myrmica punctiventris along the forested transect, and a number of specimens of M. americana, M. detritinodis, M. incompleta, Formica lasioides, F. subsericea, and Lasius neoniger along the open transect. Other records include a note by William Wheeler in his 1906 Fauna of New England – List of the Formicidae of a Camponotus pennsylvanicus collected from Mount Katahdin (date unknown) and two 1935 records of Formica aserva from Mount Katahdin.

A group led by Harvard Forest researcher Aaron Ellison collected ants in the Travelers section of Baxter Park during the week of July 9th (Figure 1). Ant samples were collected on all the peaks—Peak of the Ridge, Traveler, North Traveler, and the unnamed peak in between—as well as a range of habitats in between the peaks and extending down in elevation to the South Branch Campground, the shores of Pogy Brook, and along other trails around South Branch Campground (Pogy Brook Trail, Howe Falls Trail, Lower Fowler Pond Trail) (Figures 2, 3). At each site (Table 1), we collected ants by searching a 50 × 50-m plot for one person-hour; we collected three worker ants from any ant nest we encountered during this timed search. Leaf litter, when available, was collected haphazardly (4-L sample) and sieved in the field; the few ants we found in this sieved litter were also collected. Finally, we collected ants from individual nests encountered adjacent to the trails of the Traveler Loop trail system (North Traveler Trail, Traveler Trail, and Center Ridge Trail).

In total, we collected samples of workers from 266 nests representing 27 species (Table 2). Of these, 13 are new records for Piscataquis County, and one, *Formica adamsi* (Figure 4) – collected from a trailside nest west of North Traveler Mountain, is a new species record not only for Maine but also for all of New England.

Four species collected by Del Toro in 2010, *Myrmica americana, M. punctiventris, M. incompleta,* and *Formica lasioides,* were not collected in our survey of the Traveler Mountain region. Including these in the Baxter State Park list gives a total of 31 species for the park.

Other species known from Piscataquis county, but outside the park, include *Dolichoderus mariae*, *Camponotus nearcticus*, *Formica glacialis*, *F. hewitti*, *F. impexa*, *F. podzolica*, *Aphaenogaster rudis*, *Lasius minutus*, and *Myrmica latifrons*. The total number of species known from the county currently stands at 40, just under 50% of the 95 species currently known from the State of Maine.

All identifications of ants collected in 2013 (and 2010) have been confirmed at Harvard's Museum of Comparative Zoology (MCZ). Pinned voucher specimens have been deposited at the Maine State entomological collection in Augusta (ELMF). All unpinned specimens from both the 2013 and 2010 collections are stored in 95% ethanol, and also have been deposited at ELMF.

All data (as a .csv spreadsheet) have also been sent to ELMF, and are archived in the Harvard Forest Data Archive, within dataset HF-147

(http://harvardforest.fas.harvard.edu:8080/exist/xquery/data.xq?id=hf147).



Figure 1. The 2013 ant crew on the way to North Traveler. Left to right: Aaron Ellison, Dave Bourque, Dana Michaud, Charlene Donohus, Kyle Bradford, Kaitlyn O'Donnell

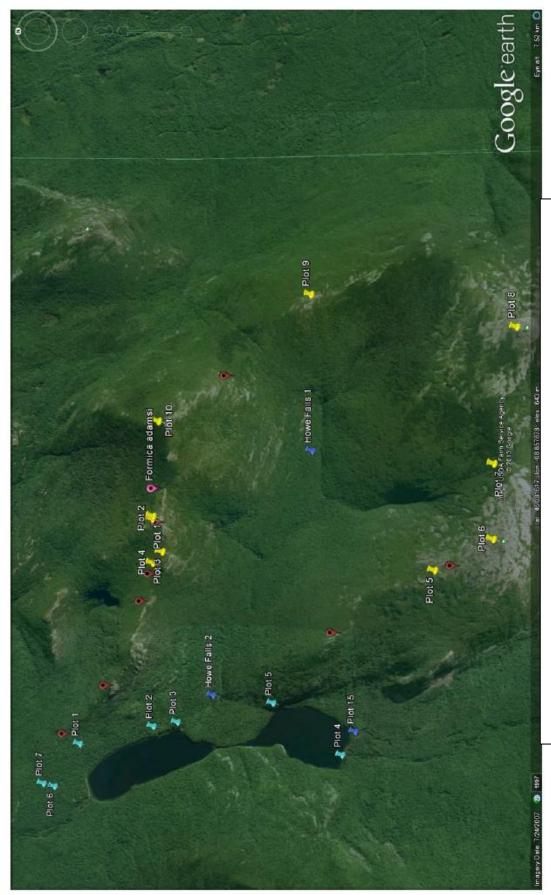


Figure 2. Sample locations along the Traveler Loop trail system (plots: yellow "push-pins"; trailside nests: red and pink markers), Pogy Brook Trail and South Branch Pond Campground (cyan push-pins), and Howe Brook Trail (dark blue push-pins). See Table 1 for plot coordinates and descriptions.



Figure 3. Sample locations along the Fowler Brook Trail (green push-pins). See Table 1 for plot coordinates and descriptions.

Table 1. Plot locations and descriptions from which ants were sampled at Baxter Park, July 9-13, 2013. Colors correspond to "push-pins" on aerial photos of Figures 2 and 3.

Description	North Traveler Trail, rhyolite peak above treeline	North Traveler Trail, blueberry grass meadow	North Traveler Trail, low kalmia shrubland	North Traveler Trail, paper birch woodland	Traveler Loop, field just before Peak of the Ridge	Traveler Loop, Peak of the Ridge	Traveler Loop, spruce-fir forest in saddle	Traveler Loop, Traveler Peak	Traveler Loop, unnamed peak	Traveler Loop, Top of North Traveler	Pogy Brook trail, mixed hardwoods	Pogy Brook trail, by washout stream	Pogy Brook trail, by canoe landing	South Branch Lean-to	Pogy Brook trail, red pine stand	South Branch campground admin site	South Branch campground behind sites 32 and 33	Pogy Brook Trail, wetland south of lean-to	Howe Falls, main falls	Lower Howe Falls and pools	Lower Fowler Pond, pondside	Lower Fowler Pond Trail, mixed hardwoods	Lower Fowler Pond Trail, floodplain forest	Lower Fowler Pond Trail, spruce stand
Elevation (m asl)	884	881	792	795	873	266	897	1085	905	959	300	294	290	301	290	337	363	400	530	345	271	272	281	185
Longitude	-68.8657	-68.8660	-68.8699	-68.8712	-68.8719	-68.8679	-68.8598	-68.8448	-68.8408	-68.8550	-68.8941	-68.8921	-68.8916	-68.8957	-68.8892	-68.8995	-68.8990	-68.8928	-68.8583	-68.8882	-68.8649	-68.8654	-68.8688	-68.8762
Latitude	46.1008	46.1009	46.1002	46.1010	46.0787	46.0742	46.0742	46.0729	46.0884	46.1003	46.1077	46.1016	46.0995	46.0856	46.0914	46.1100	46.1110	46.0845	46.0881	46.0965	46.1352	46.1358	46.1404	46.1471
Date sampled	lnf-6	lnf-6	ln(-6	lnf-6	10-Jul	10-Jul	10-Jul	10-Jul	10-Jul	10-Jul	10-Jul	10-Jul	10-Jul	10-Jul	10-Jul	10-Jul	10-Jul	13-Jul	13-Jul	13-Jul	11-Jul	11-Jul	11-Jul	11-Jul
Plot number	Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	Plot 6	Plot 7	Plot 8	Plot 9	Plot 10	Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	Plot 6	Plot 7	Plot 15	Plot 1	Plot 2	Plot 11	Plot 12	Plot 13	Plot 14
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			1		Tr.	Traveler Loop	٥					Po.	gy Notch	Trail and	South	ranch Po	Pogy Notch Trail and South Branch Pond Campground	puno		How Falls Trail	ls Trail		Fowler B	Fowler Brook Trail	
									Plot		Individual nests (not							Plot	*			Plot	Plot	Plot	Plot
	Plot 1 Plot 2 Plot 3 Plot 4 Plot 5 Plot 6	Plot 2	Plot 3	Plot 4	Plot 5		Plot 7 Pl	Plot 8 Plot 9			in plots)	Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	Plot 6 Plo	Plot 7 15		Plot 1	Plot 2	11	12	13	14
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Formicinae																									
Camponotus herculeanus	ı					×	×	×	×														×		
Camponotus novaeboracensis	×				×								×					×							
Camponotus pennsylvanicus																				×					
Formica adamsi											×														
Formica argentea			×			×																			
Formica aserva											×	×									×				
Formica cf. fossaceps	×	×	×																						
Formica integra											×														
Formica neorufibarbis		×	×		×	×		×	×																
Formica subaenescens						×							×			×	Î	×		×	×				
Formica subsericea	×	×	×		×						×	×		×		×	×			×	×	×	×	×	
Lasius alienus												×	×	×	×	×	×	×		×	×			×	
Lasius flavus																					×				
Lasius nearcticus																×									
Lasius neoniger												×	×	×	×		×	×				×			
Lasius pallitarsis												×					×	×		×		×		×	
Lasius umbratus																					×		×		
Myrmicinae																									
Leptothorax sp. AF-can			×		×	×		×	×								^	×			×				
Myrmica alaskensis								×																	
Myrmica detritinodis		×	×					×				×								×	×			×	×

Table 2. Ant species collected at each sampled plot, along with ants collected from individual nests. Species in red are new species records for Piscataquis County, and species in green are new species records for all of New England (including Maine).

××

×

×

Myrmica fracticornis Myrmica sp. AF-scu Stenamma brevicorne

Stenamma diecki



Figure 4 – *Formica adamsi* collected west of the summit of North Traveler Mountain (pink marker in Figure 2). Voucher specimen at MCZ; photo: Gary Alpert / MCZ.

Report on Ground Beetles (Coleoptera: Carabidae)
Collected in Baxter State Park, Summer, 2013
by Robert E. Nelson
Dept. of Geology, Colby College
5804 Mayflower Hill
Waterville, Maine 04901-8858

ABSTRACT

Four days were spent collecting Carabidae in Baxter State Park in August, 2013. The goal was to document whether any of ten key Arctic relict species previously to be found in the alpine fauna of Katahdin were still present. Only one of these target species was recovered as a living individual, the species Cymindis unicolor. Failure to find specimens of the other species was undoubtedly because insufficient time was available to devote to alpine zone collecting at the Tablelands. However, some 13 additional species have been added to the known fauna of the Park, bringing the total to 84 species. The true Carabid fauna of the Park is undoubtedly over 100 species; numerous habitats have not yet been sampled at all, and most others have not been sampled at all thoroughly. A proposal to continue work, and to train Park personnel for alpine zone collecting in the 2014 season, concludes the report.

Introduction

The ability of insects to respond rapidly to environmental change makes them ideal tools for evaluating the rates of such change in the environment. A major recent synthesis of records for the ground beetle fauna of Maine (Coleoptera: Carabidae) showed a number of species appearing in the southern part of the state that previously had been restricted to more southern locales. This led to a question as to whether the boreal and Arctic species of Maine, and particularly those of the alpine zone on Katahdin, were still present in the living fauna on the mountain. Most of the records for these species are based on specimens collected 30-40 years ago, or more distantly in the past. The species of particular concern are shown in the following table, all previously reported from Mt. Katahdin. In the table, the parenthetical acronyms are for the collections in which the specimens reside: CNC = the Canadian National Collection of Insects and Arachnids in Ottawa, MFS = the Maine Forest Service collection in Augusta, RENC = R. E. Nelson collection (specimens collected in the early 1980s with Park approval), and PRV = a private collection. We have been unable to locate the specimen of Miscodera arctica that was reported by Lindroth (1961), but presume it is indeed from Mt. Katahdin.

Table 1. Carabid species of special concern from the Mt. Katahdin fauna.

Genus	species	Township
Amara	alpina	Mount Katahdin Twp (CNC, RENC)
Carabus	chamissonis	Mount Katahdin Twp (MFS)
Cymindis	unicolor	Mount Katahdin Twp (CNC)
Miscodera	arctica	Mount Katahdin Twp (?)
Nebria	gyllenhali castanipes	Mount Katahdin Twp (MFS, RENC)
Nebria	nivalis gaspesiana	Mount Katahdin Twp (PRV)
Pterostichus	arcticola	Mount Katahdin Twp (CNC)
Pterostichus	brevicornis	Mount Katahdin Twp (MFS)
Pterostichus	pinguedineus	Mount Katahdin Twp (CNC)
Stereocerus	haematopus	Mount Katahdin Twp (CNC, MFS)

The species *Nebria nivalis gaspesiana* (= *N. gaspesiana Kavanaugh*) is of particular concern. This snowfield-margin predator has disappeared from all of its former range in Labrador, on Newfoundland, and on the Gaspé Peninsula of Québec (D. H. Kavanaugh, California Academy of Sciences, pers. commun. 2013). If it is indeed still to be found on Katahdin that would be the only surviving population.

To this end, a plan was initiated to search for these species, and to try to determine how many of them were still to be found in the modern fauna of Mt. Katahdin.

Methods

The week of August 5-9 was set aside for field work on the mountain. Accommodations were secured in Millinocket, and entry to the park was made as soon as the Togue Pond gate was unlocked at 6:00 a.m.

Collecting was planned from the outset to include only active specimen capture, by searching under bark on fallen logs, beneath stones and other debris on the ground surface, and (when possible) diurnally active specimens. No pitfall, fight-intercept, or other passive traps were employed, nor were large samples of litter and organic matter (e.g., foliose lichens) collected and screen-sieved for small specimens. I also wore olive drab clothing, including camouflage trousers, in order to minimize my visibility. Planned transects were as follows: August 5th – North Basin from Blueberry Knoll to the small ponds in the basin. August 6th – South Turner Mountain. August 7th – Tablelands on Katahdin. August 8th – Helon Taylor Trail up Pamola Peak. August 9th – revisit one of the above sites.

Results

August 5th was a day planned for exploring North Basin from Blueberry Knoll to the small ponds in the basin. High wind with mist, fog and occasional cold rain made for very cold conditions with extremely limited visibility, and it was deemed inadvisable to continue to the ponds significantly beyond the end of the trail at the Knoll. A few ants were collected (forwarded on to Dr. Aaron Ellison at Harvard University), and a single carabid was found beneath the bark of a fallen log along the trail from Blueberry Knoll to Chimney Pond. (Tables 2 and 3 show all species collected, and will be found below.) August 6th was dedicated to climbing South Turner Mountain, in hopes of locating more xeric taxa on its windswept, dry western summit face, or in the krummholtz zone immediately below. This was a moderately successful day. The climbing route was steep but not

impossible, and the route short enough that four or five hours could be devoted to active collecting. I was able to collect several species of Carabids as well as some ants and a few beetles from other families that I anticipated I would be able to identify without much difficulty. August 7th was spent climbing Katahdin to the Tablelands from the Roaring Brook campground trailhead, accompanied by a BSP staff member who joined me at Chimney Pond. This proved to be too long a climb, both in distance and vertical climb, to allow time for adequate collecting; the trails have also deteriorated significantly from what I remember them being like 25 years ago when I last climbed the mountain. Perhaps an hour to an hour and a half was available for collecting, before timing dictated that I needed to start back down to avoid having to descend in the dark. Most stones at Tablelands were also deeply embedded, making collecting difficult without causing significant disturbance to the area; because of the sensitivity of the area, only loose stones lying directly on the surface, or embedded no more than ~ 1 cm., were turned. The wet seep that in the early 1980s had yielded *Nebria gyllenhalli castanipes* was severely trampled by prior hikers, and no longer suitable *Nebria* habitat. All loose stones that had been here in 1983-1985 had also been removed.

August 8th was a day of rain and drizzle. No attempt was made to climb to high elevation; it was assumed trails would be closed, given the weather conditions. A day was thus spent collecting at more lowland habitats, along multiple streams (Avalanche Brook, Sandy Stream, Rum Brook) and around the artificial marsh and wetland that have developed in the Caribou Pit landing area at the park entrance. August 9th began with a violent thunderstorm that lasted through much of the early part of the day, so after a morning meeting with Jean Hoekwater, I headed back home with no attempt at further collecting. Figure 1 on the next page shows all collecting localities.



Fig. 1. Google Earth image of Katahdin and localities at which specimens were collected.

tables below and on the next page show the specimens that were collected at each of the locations shown on the above image, both carabids and non-carabids; numbers are how many individuals of each species were collected at each site.

Table 2. Carabid specimens collected in this study.

							,.		
Locality Name -> Carabid Species	Blueberry Knoll - Chimney Pond Trail	South Turner Mountain spring	South Turner Mountain summit area, sedge tussocks	South Turner Mountain Krummholz Zone	Fablelands at head of Saddle Trail	Avalanche Brook	Sandy Stream	Rum Brook	Caribou pit pond (pond in sand pit)
Agonum aeruginosum Dejean		-	7				-		30
Agonum deceptivum (LeC.)									1
Agonum fidele Casey									3
Agonum piceolum (LeC.)						1			
Agonum tenue (LeC.)									5
Agonum trigeminum Lth.						1			1
Amara laevipennis Kirby			2						
Amara latior Kirby			4						
Anisodactylus kirbyi Lth.									1
Bembidion carolinense Casey						1	1	7	
Bembidion concolor (Kirby)						3	4	1	
Bembidion concretum Casey									2
Bembidion nigrum Say							4		
Bembidion patruele Dejean									1
Bembidion quadratulum Notm.					1				
Bembidion scopulinum Kirby						2	4		
Bembidion semistriatum (Hald.)							1		
Bembidion versicolor (LeC.)							1		
Calathus gregarius (Say)				1					
Cymindis unicolor Kirby					1				
Loricera pilicornis (F.)								1	
Nebria pallipes Say						5	5		
Notiophilus aquaticus (L.)			1						
Platynus decentis (Say)	1								
Platynus tenuicollis (LeC.)						1			
Stenolophus conjunctus (Say)			1						
Stereocerus haematopus (Dejean)					1				
Synuchus impunctatus (Say)								1	
Trechus apicalis Motsch.						1	3		
Total # of species per site	1	0	4	1	3	8	8	4	8

Table 3. Non-Carabid specimens collected in this study.

Locality Name -> Family, genus and species	Blueberry Knoll - Chimney Pond Trail	South Turner Mountain spring	South Turner Mountain summit area, sedge tussocks	South Turner Mountain Krummholz Zone	Tablelands at head of Saddle Trail	Avalanche Brook	Sandy Stream	Rum Brook	Caribou pit pond (pond in sand pit)
BYRRHIDAE									
Byrrhus pettiti Hom				1					
COCCINELLIDAE									
Anisosticta bitriangularis (Say)									2
STAPHYLINIDAE									
Brathinus varicornis LeC.		2				3	2		
Tachinus horni Campbell								1	
Tachinus scrutator Gemmiger and Harold						1			
Total # of species per site	0	1	0	1	0	2	1	1	1

As will be seen in Table 2, only two of the particular target species were encountered, both on the Tablelands of Katahdin: *Cymindis unicolor* and *Stereocerus haematopus*, though this latter was recovered only as a pair of disarticulated elytra from a partial dead specimen. The specimen of *Bembidion quadratulum* at this site was quite a surprise, inasmuch as this is a species whose preferred habitat is Sphagnum bogs. I can only presume that the specimen encountered had taken flight and been caught up in winds that delivered it to the summit area of the mountain. Several small (8-9 mm) black specimens were collected that were thought in the field could have been members of the subgenus *Cryobius* of the genus *Pterostichus* [i.e., P. (C.) *arcticola*, P. (C.) *brevicornis*, and P. (C.) *pinguedineus*], which were target taxa. Unfortunately, I was collecting without my glasses on – and these turned out to be small species of *Elateridae* (click beetles). These have not yet been identified. The specimens of *Brathinus varicornis*, an *Omaliine Staphylinid*, were also collected in habitats that should have yielded small, fast *Carabids*. (Wet conditions made wearing my glasses here impossible as well – foggy lenses or rain drops made it impossible to see any better with them on than I could see with them off.) All specimens collected will be deposited with the Maine Forest Service insect laboratory in Augusta. In Table 4, beginning on

the page that follows, the entire Baxter State Park fauna is shown, based on known specimens or, for one or two, those with authoritative documentation.

In this table, collection abbreviations are as follows: MFS = Maine Forest Service Collection; UNH = University of New Hampshire collection; CNC = Canadian National Collection of Insects and Arachnids, Ottawa; MCZ = Museum of Comparative Zoology, Harvard University; PRV = various private collections; RENC = R. E. Nelson collection.

Table 4. The known Carabid fauna of Baxter State Park. Species records in black are from the Maine Carabid database; those in blue are new additions from this study.

Genus	species	Township
Agonum	aeruginosum	T2 R9 WELS (MFS)
Agonum	deceptivum	T2 R9 WELS (MFS)
Agonum	deceptivum	Mount Katahdin Twp (RENC)
Agonum	fidele	T2 R9 WELS (MFS)
Agonum	gratiosum	Mount Katahdin Twp (UNH)
Agonum	metallescens	Mount Katahdin Twp (CNC, PRV)
Agonum	piceolum	Mount Katahdin Twp (RENC)
Agonum	piceolum	Mt. Katahdin Twp. (MFS)
Agonum	retractum	Mount Katahdin Twp (RENC)
Agonum	sordens	Mount Katahdin Twp (RENC)
Agonum	tenue	Mount Katahdin Twp (PRV)
Agonum	tenue	T2 R9 WELS (MFS)
Agonum	trigeminum	Mt. Katahdin Twp. (MFS)
Agonum	trigeminum	T2 R9 WELS (MFS)
Amara	alpina	Mount Katahdin Twp (CNC)
Amara	alpina	Mount Katahdin Twp (RENC)
Amara	laevipennis	T4 R9 WELS (MFS)
Amara	latior	T4 R9 WELS (MFS)
Amara	otiosa	Mount Katahdin Twp (PRV)
Anisodactylus	kirbyi	Mount Katahdin Twp (PRV)
Anisodactylus	kirbyi	T2 R9 WELS (MFS)
Bembidion	bruxellense	Mount Katahdin Twp (CNC)
Bembidion	carinula	Mount Katahdin Twp (RENC)
Bembidion	carolinense	Mount Katahdin Twp (RENC)
Bembidion	carolinense	Mt. Katahdin Twp. (MFS)
Bembidion	carolinense	T2 R9 WELS (MFS)
Bembidion	concolor	Mt. Katahdin Twp. (MFS)
Bembidion	concolor	T2 R9 WELS (MFS)
Bembidion	concretum	Mount Katahdin Twp (CNC)
Bembidion	concretum	T2 R9 WELS (MFS)
Bembidion	louisella	Trout Brook Twp. (Maddison)
Bembidion	mutatum	Mount Katahdin Twp (CNC)
Bembidion	nigrum	Mount Katahdin Twp (CNC, RENC)
Bembidion	nigrum	Mt. Katahdin Twp. (MFS)
Bembidion	patruele	T2 R9 WELS (MFS)
Bembidion	quadratulum	Mount Katahdin Twp (MCZ)
Bembidion	quadratulum	Mt. Katahdin Twp. (MFS)
Bembidion	rothfelsi	Trout Brook Twp. (Maddison)
Bembidion	rusticum	Mount Katahdin Twp (RENC)
Bembidion	salebratum	Trout Brook Twp (CNC)
Bembidion	scopulinum	Mount Katahdin Twp (RENC)
Bembidion	scopulinum	Mt. Katahdin Twp. (MFS)
Bembidion	semistriatum	Mt. Katahdin Twp. (MFS)
Bembidion	versicolor	Mt. Katahdin Twp. (MFS)
Bembidion	wingatei	Mount Katahdin Twp (RENC)

Blethisa Mount Katahdin Twp (CNC) julii Bradycellus Mount Katahdin Twp (RENC) neglectus Bradycellus nigrinus Mount Katahdin Twp (PRV, RENC) Calathus gregarius T4 R9 WELS (MFS) Carabus chamissonis Mount Katahdin Twp (MFS) Carabus nemoralis Trout Brook Twp (RENC) Cicindela duodecimguttata Mount Katahdin Twp (PRV) Cicindela longilabris Trout Brook Twp. (RENC) Cicindela repanda Mount Katahdin Twp (PRV) Cicindela tranquebarica Mount Katahdin Twp (MCZ, PRV) Clivina fossor Mount Katahdin Twp (CNC) Cymindis Mount Katahdin Twp (CNC) unicolor Cymindis unicolor Mt. Katahdin Twp. (MFS) Dicheirotrichus cognatus Mount Katahdin Twp (CNC, RENC) Diplous Mount Katahdin Twp (RENC) rugicollis Elaphropus granarius Mount Katahdin Twp (PRV) Trout Brook Twp (RENC) Elaphrus clairvillei Elaphrus olivaceus Mount Katahdin Twp (PRV, RENC) Gastrellarius honestus Mount Katahdin Twp (RENC) Gastrellarius Trout Brook Twp (RENC) honestus Harpalus affinis Mount Katahdin Twp (CNC) Harpalus fulvilabris Mount Katahdin Twp (PRV) Harpalus indigens Mount Katahdin Twp (PRV) Harpalus somnulentus Mount Katahdin Twp (CNC) T2 R9 WELS (MFS) Loricera pilicornis Miscodera arctica Mount Katahdin Twp (source ?) Nebria gyllenhali castanipes Mount Katahdin Twp (MFS, RENC) Mount Katahdin Twp (PRV) Nebria nivalis gaspesiana Nebria pallipes Mount Katahdin Twp (RENC) Nebria pallipes Mt. Katahdin Twp. (MFS) Notiophilus aeneus Mount Katahdin Twp (RENC) Notiophilus aquaticus T4 R9 WELS (MFS) Omophron americanum Mount Katahdin Twp (RENC) Platynus decentis Mount Katahdin Twp (RENC) T4 R9 WELS (MFS) Platynus decentis Platynus mannerheimi Trout Brook Twp (MFS) Platynus tenuicollis Mt. Katahdin Twp. (MFS) Pterostichus adoxus Mount Katahdin Twp (RENC) Pterostichus adstrictus Mount Katahdin Twp (RENC) Pterostichus arcticola Mount Katahdin Twp (CNC) Pterostichus Mount Katahdin Twp (MFS) brevicornis Pterostichus coracinus Mount Katahdin Twp (PRV, RENC) Pterostichus melanarius Mount Katahdin Twp (RENC) Pterostichus patruelis Mount Katahdin Twp (PRV) Pterostichus pensylvanicus Mount Katahdin Twp (MFS, RENC) Pterostichus pinguedineus Mount Katahdin Twp (CNC) Pterostichus tristis Trout Brook Twp (UNH)

Mount Katahdin Twp (PRV)

viduus

Scaphinotus

Scaphinotus viduus Trout Brook Twp (UNH) Sphaeroderus canadensis canadensis Trout Brook Twp (RENC) Sphaeroderus Trout Brook Twp (specimen loc.?) nitidicollis brevoorti Sphaeroderus Mount Katahdin Twp (UNH) stenostomus lecontei Sphaeroderus stenostomus lecontei Trout Brook Twp (CNC, RENC) Mount Katahdin Twp (PRV) Stenolophus conjunctus Stenolophus conjunctus T4 R9 WELS (MFS) Stenolophus fuliginosus Mount Katahdin Twp (PRV) Stereocerus haematopus Mount Katahdin Twp (CNC, MFS) Stereocerus haematopus Mt. Katahdin Twp. (MFS) Synuchus impunctatus Mount Katahdin Twp (RENC) Synuchus impunctatus T2 R9 WELS (MFS) Synuchus impunctatus Trout Brook Twp (RENC) Trechus apicalis Mount Katahdin Twp (RENC) Trechus apicalis Mt. Katahdin Twp. (MFS)

Discussion and Proposals for Future Work

As can be seen from Table 4, above, the known Carabid fauna of Baxter State Park has been increased by 13 species in this study, and now includes a total of some 84 species. However, the basic goal of the study was not achieved. We can say for certain that *Cymindis unicolor* is still to be found in the fauna of the alpine zone of Katahdin, but the other target species remain unfound. There undoubtedly are over 100 species of *Carabids* to be found within the confines of the Park.

Numerous specialized habitats have not been sampled at all, or sampled only in preliminary reconnaissance fashion. These would include the deep forest fauna, including in particular the smaller species to be found in deep forest duff habitats, as well as subcortical species. Lacustrine and pond habitats remain essentially unsampled, as are the faunas that will be found in open sandy areas (including the drier portions of Caribou Pit at the Park entrance). There are several species that are known exclusively to be found on beaver lodges and around adjacent ponds. Cold seeps, such as the spring near the trail to South Turner Mountain, should be studied more carefully, although this particular site yielded surprisingly few specimens – and no Carabids at all – in an hour of collecting time. The time when this study was conducted was a relatively wet period in the summer, and available exposed habitats along streams (e.g., Sandy Stream, Avalanche Brook) were highly restricted and generally limited to rockier banks. Exposed sand flats were not available, but are habitats where additional species of Bembidion and other smaller riparian taxa would be expected. I would be amenable to continuing the study, but principally taking advantage of BSP personnel who regularly visit the summit area to initiate a sampling protocol to seek specimens of the Arctic and boreal relict target species. I will be happy to train personnel in techniques, and to modify traditional protocols as much as necessary to minimize long-term impacts on the fragile alpine zone of the mountain. At the same time, I would be willing to continue sampling at lower elevations, perhaps making occasional forays into areas above treeline that are not regularly visited by Park personnel (e.g., the lower alpine slopes of Pamola Peak, or in North Basin). I would be happy to discuss possibilities for continuing this study in the summer of 2014, although I have other commitments that will keep me occupied through mid-July.

Reference cited:

Lindroth, Carl H. (1961) The Ground-Beetles (*Carabidae*, excl. *Cicindelinae*) of Canada and Alaska, Part 2. Opuscula

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2013 Spruce Grouse Project Progress Report for Activities in the Scientific Forest Management Area of Baxter State Park

Submitted by:

Stephen Dunham, Graduate Research Assistant Daniel Harrison, Professor of Wildlife Ecology and Sustainable Forestry The University of Maine

After receiving permission to begin fieldwork in the Scientific Forest Management Area (SFMA) we worked closely with Richard Morrill to identify potential survey sites. On 24 May we met with Mr. Morrill in the field to visit and select sites. Due to our restricted survey timelines and the size and accessibility of potential sites, only two sites were chosen: MUID 12045 and MUID 8042. Spruce grouse survey transects were established in both stands in late June, just prior to the beginning of the brood survey period. Both stands were surveyed during July 2013. MSW12 (MUID 8042), which is near Frost Pond, was surveyed twice (13 and 17 July) with no grouse detected. Grouse scat was observed in this stand. MSW 13 (MUID 12045), which is near the Lynx Road, was surveyed once (13 July) and both a female and male responded to our call. Additionally, a dust bath containing spruce grouse feathers was observed. The female was captured without incident and marked with a radio transmitter. The male bird could not be located after the female was released, so was not captured or legbanded. We obtained radio locations on the female bird on 10 occasions prior to her being killed by an avian predator. That female was never observed with a brood.

Table 1. Locations of a female spruce grouse that was radio-equipped in the SFMA of Baxter State park during July 2013.

Date	Time (24h)	Northing	Easting	Comment
13-July	13:02	5108898	504379	Capture Location
13-July	13:02	5108891	504379	Male Observation Location
14-July	10:12	5108828	504400	Location 1
15-July	10:55	5108785	504499	Location 2
16-July	12:38	5108727	504609	Location 3
17-July	11:36	5108791	504498	Location 4
22-July	17:30	5108718	504768	Location 5
23-July	06:30	5108737	504620	Location 6
24-July	08:53	5108738	504625	Location 7
25-July	06:43	5108806	504459	Location 8
25-July	16:36	5108708	504746	Location 9
26-July	07:24	5108760	504532	Location 10
28-July	15:35	5108757	504504	Mortality Location

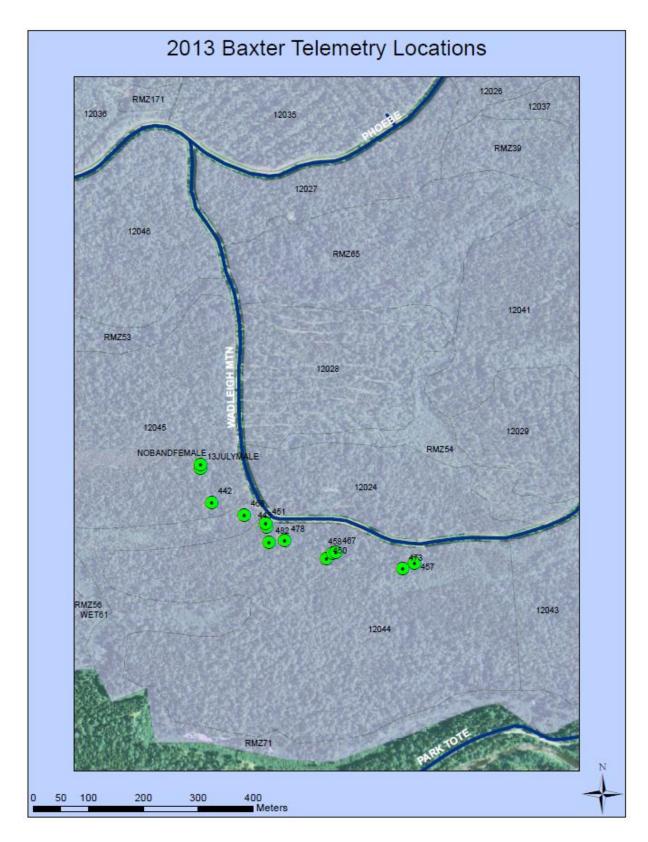


Figure 1. Locations of a female spruce grouse that was radio-equipped in the SFMA of Baxter State park during July 2013.

2013 Annual Research Report to Baxter State Park

Bird communities of coniferous forests in the Acadian region; their response to management, and habitat associations.

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Background and Project Overview

Several bird species of concern are found in the coniferous forests of Northern New England. Cape May (Setophaga tigrina), and Bay-breasted Warblers (Setophaga castanea) have been declining within the Acadian Region since region-wide monitoring began with the USGS Breeding Bird Survey in 1966, while species such as Blackburnian Warbler (Setophaga fusca) are increasing (Sauer et al. 2012, Figure 1). The United States Federal government has the authority to manage these species under the U.S. Migratory Bird Treaty Act. Maine contributes up to 96% of breeding habitat for some of these spruce-fir associated species, and population declines are not well understood. The coniferous forests where these species reside are heavily managed by the timber industry with a variety of silvicultural and industrial prescriptions. Habitat requirements for these species are not well understood, nor are the species' responses to management. Standardized region-wide surveys used for assessing populations may not be sufficiently comprehensive to fully understand population trends (i.e., USGS Breeding Bird Survey), in particular, when the species of concern are absent (i.e., during the Audubon Christmas Bird Count, which occurs in the non-breeding season). Furthermore, these surveys do not typically account for detection error, where a species can be present but goes undetected.

Our goals are to investigate factors influencing the distribution and abundance of species that represent the Acadian coniferous forests and to assess the influence of prevalent silviculture techniques on the Acadian forest bird community. Our objectives include: (1) to quantify and define the composition and forest associations of coniferous bird communities in five silvicultural treatments representing a gradient in mature canopy residuals including conifer regenerating, overstory removal, pre-commercially thinned, selection, and shelterwood harvest compared to mature softwood reference sites; (2) to model the influences of silvicultural practices on coniferous forest bird communities while accounting for detection error; (3) use data at both landscape and fine scales to determine important habitat and beneficial management; and (4) provide accessible and interpretable results for silviculturalists that can be used to manage species of concern.

Progress in 2013

Our research in 2013 focused on two components: bird community surveys in 110 forest stands in Maine, New Hampshire, and Vermont and vegetation surveys within stands at Telos and Clayton Lake in Maine (Figure 2).

Field Site Establishment

Our sites are located within the Acadian Forest Region, which coincides roughly with Bird Conservation Region 14 in the United States (Figure 2). We established survey points in the North Maine Woods (Clayton Lake and Telos), Baxter State Park, and four National Wildlife Refuges (Nulhegan Basin Division of Silvio Conte NWR, Umbagog NWR, Moosehorn NWR, and Aroostook NWR). We attempted to have at least five samples of each treatment at every site to survey a range of possible forest conditions, but this goal was not reached at all sites due to the distribution of forest management types (Tables 1 and 2). We surveyed 110 forest stands with approximately 3 to 8 survey locations per stand for a total of 610 sampling points. For each stand, we included one hard edge and one soft edge survey point along with as many core point as could be independently distributed within a stand (typically 3-8 points). We defined a hard edge as any abrupt change from the forest treatment to early successional habitat including roads, meadows, and recently harvested areas. We defined

soft edges as any transition from one forest treatment or time since harvest to another forest. If an adjacent edge type was not available, we could not add the edge survey point. Core points were defined as \geq 110 m from a hard edge and \geq 250 m from any other point.

Occupancy Surveys

We used standardized point count surveys (Ralph et al. 1993) to count all bird species during the breeding season (1 June to 1 August 2013). We navigated to preset locations, and counted the number of individuals of each bird species that were audibly and visually detected for 10 minutes. Details for our protocols generally followed Hamel (1996). All point counts occurred within four hours of civil dawn when most birds are most active and singing. We returned to each location for a total of three repeated surveys. Repeated surveys allow us to account for the probability that an undetected bird was present during a survey. Across all study areas, we recorded 19,431 detections of 123 species. In addition to birds, we recorded detections of Red Squirrel (*Tamiasciurus hudsonicus*), because they are known nest predators of many passerines in New England.

Baxter State Park

We added two mature softwood stands within Baxter State Park (Figure 3) to supplement the number sampled in other study areas. We were able to survey these stands only once during the 2013 breeding season because of time constraints. Species detected are summarized in Table 3. We hope to include these stands in 2014 with standardized bird surveys that are described above. Coordinates of survey points are listed in Table 4. Vegetation within these stands was measured in preparation for next year.

Future Plans

In 2014, we will expand our vegetation surveys to include the National Wildlife Refuge study areas and analyze our current vegetation data from North Maine Woods to identify measurements to collect at other sites. We will continue point counts throughout all locations to obtain multi-season bird community and species data. We will begin exploratory statistical analyses in 2014. A third field season will be conducted in 2015, followed by data analysis and report preparation in 2016.

Table 1. The number of point count locations in each treatment class at each property that were surveyed in 2013.

	Number of point counts in each treatment						
_	Conifer		Overstory	•			
Site	Regen	Mature	Removal	PCT	Selection	Shelterwood	Total
Aroostook NWR	3	28	0	0	9	0	40
Baxter State Park	0	23ª	0	0	0	0	0
Clayton Lake	49	0	5	0	12	0	66
Moosehorn NWR	0	46	0	0	0	6	52
Nulhegan NWR	56	12	0	39	34	3	144
Telos	61	31	0	43	26	0	161
Umbagog NWR	23	51	0	20	47	7	147
Total	192	191	5	102	127	16	610

^a Stands at Baxter State Park did not meet our standardized criteria, so do not count toward the summed total.

Table 2. The number of stands in each treatment class at each property that were surveyed in 2013.

	Number of stands in each treatment						
Property	Conifer Regen	Mature	Overstory Removal	PCT	Selection	Shelterwood	Total
Aroostook NWR	1	9	0	0	2	0	12
Baxter State Park	0	2ª	0	0	0	0	0
Clayton Lake	8	0	1	0	2	0	11
Moosehorn NWR	0	8	0	0	0	1	9
Nulhegan NWR	6	2	0	5	5	1	19
Telos	10	5	0	10	4	0	29
Umbagog NWR	6	6	0	4	10	2	28
Total	31	32	1	19	23	4	110

^a Survey points at Baxter State Park did not meet our standardized criteria, so do not count toward the summed total.

Table 3. Detections for each species from the 2013 survey at Baxter State Park of 23 points at 2 forest stands. These raw data have not been adjusted for detection probability.

Common Name	Number detected	Common Name	Number detected
American Robin	1	Myrtle Warbler	4
American Woodcock	1	Nashville Warbler	4
Black-and-White Warbler	2	Northern Parula	3
Black-Capped Chickadee	1	Ovenbird	10
Blue-Headed Vireo	3	Red-Breasted Nuthatch	7
Blackburnian Warbler	1	Ruby-Crowned Kinglet	2
Blue Jay	2	Red-Eyed Vireo	1
Brown Creeper	2	Rusty Blackbird	1
Black-Throated Blue Warbler	1	Swainson's Thrush	3
Black-Throated Green Warbler	5	Tennessee Warbler	1
Canada Warbler	1	Unknown	1
Common Yellowthroat	1	Veery	1
Downy Woodpecker	1	Wilson's Warbler	2
Golden-Crowned Kinglet	5	Winter Wren	10
Gray Jay	1	White-Throated Sparrow	7
Gray Catbird	1	Yellow-Bellied Flycatcher	3
Hairy Woodpecker	1	Yellow-Bellied Sapsucker	3
Hermit Thrush	7	Yellow Palm Warbler	3
Least Flycatcher	1	Red Squirrel	6
Magnolia Warbler	4		

Table 4. Point count locations and coordinates at Baxter State Park.

Id	Property	PointCateg	UTM_easting	UTM_northing	StandID	Treatment
579	Baxter	HardEdge	506309	5114071	MSW12	Mature
580	Baxter	Core	505980	5113974	MSW12	Mature
581	Baxter	Core	506136	5113945	MSW12	Mature
582	Baxter	Core	506294	5113910	MSW12	Mature
583	Baxter	Core	506475	5113958	MSW12	Mature
584	Baxter	SoftEdge	506039	5113812	MSW12	Mature
612	Baxter	Core	506324	5113451	MSW12	Mature
613	Baxter	Core	506155	5113395	MSW12	Mature
614	Baxter	Core	506824	5113410	MSW12	Mature
615	Baxter	Core	506763	5113280	MSW12	Mature
616	Baxter	Core	506642	5113189	MSW12	Mature
617	Baxter	Core	506470	5113145	MSW12	Mature
618	Baxter	Core	506577	5113031	MSW12	Mature
619	Baxter	Core	506821	5113138	MSW12	Mature
620	Baxter	SoftEdge	506972	5113274	MSW12	Mature
621	Baxter	HardEdge	506327	5113179	MSW12	Mature
635	Baxter	Core	504017	5108976	MSW13	Mature
636	Baxter	Core	504157	5109020	MSW13	Mature
637	Baxter	HardEdge	504457	5109049	MSW13	Mature
638	Baxter	Core	504139	5108875	MSW13	Mature
639	Baxter	Core	504283	5108902	MSW13	Mature
640	Baxter	SoftEdge	504061	5109127	MSW13	Mature
641	Baxter	Core	504287	5109043	MSW13	Mature

Point count locations
Bird conservation region 14
0 65 130 260 390 520
Miles

Clayton Lake

Point Count Locations
Treatment
Clearcut
Mogenory NWR

Mogenory NWR

Overstory Removal
PCT

Selection Shelterwood

Figure 2. Survey locations in Northern New England.

Figure 1. Three species of concern, their estimated population trends in Bird Conservation Region 14 from USGS Breeding Bird Survey data, and their breeding distributions. Photo credits: Bay-breasted Warbler by Bill Majoros, Cape May Warbler, and Blackburnian Warbler were used from the USGS Breeding Bird Survey website.

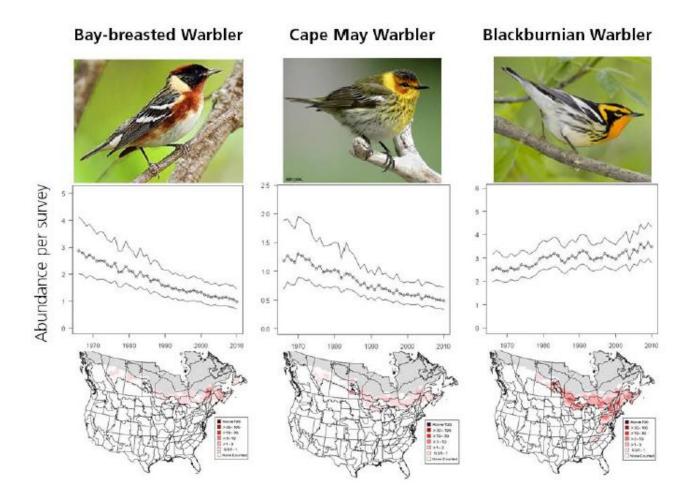
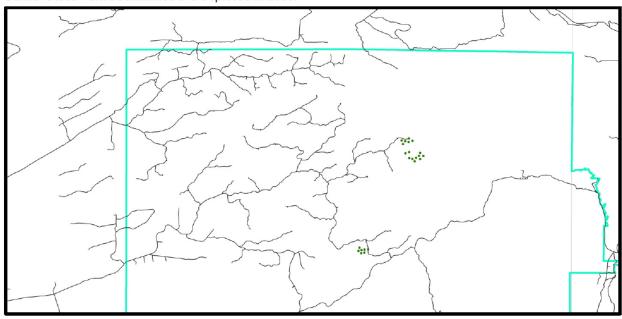


Figure 3. Point count locations at Baxter State Park (green points). Roads are displayed as black lines and Baxter State Park boundaries are depicted in blue.



Literature Cited

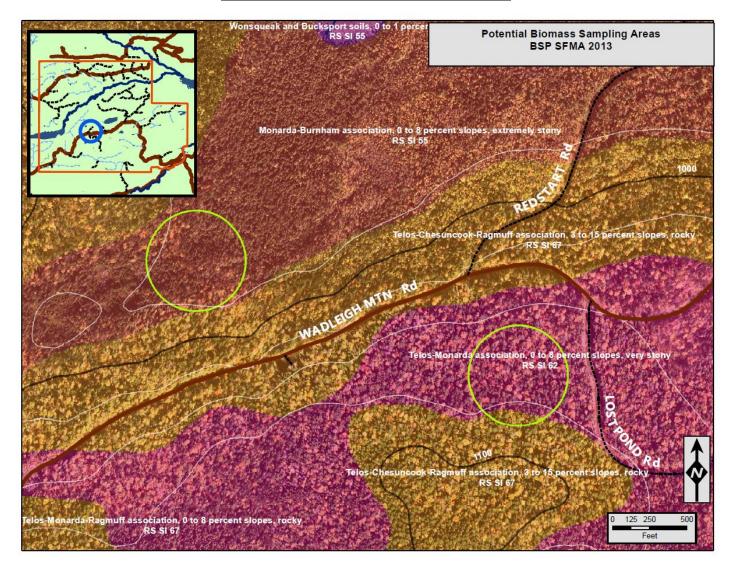
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- Sauer, J. R., J. E. Hines, J. E. Fallon, K. L. Pardieck, D. J. Ziolkowski, Jr., and W. A. Link. 2012.

 The North American Breeding Bird Survey, Results and Analysis 1966 2011. Version 07.03.2013. USGS Patuxent Wildlife Research Center, Laurel, MD.

FIA Biomass Sampling Effort Update, 2013

The Forest Inventory and Analysis (FIA) biomass team destructively sampled a total of six trees from the SFMA site just west of Lost Pond Road and south of Wadleigh Mountain Road (see map below) identified with Rick Morrill, north northeast of Lost Pond. These are summarized by diameter and species in the table below. In the spring, preferably before leaf-on, as weather permits, we hope to return to the SFMA to continue sampling.

Species	DBH (inches)
Red maple	14.6
Red maple	19.2
Red maple	9.1
Sugar maple	7.8
Yellow birch	7.1
Eastern hophornbeam	5.0



2013 Loon Count

2013 Count

Pond	Town	Adults	Chicks	Nest	Pond Acres
Abol Pond	T2R9	4	0	1	70
Daicey Pond	T3R10	2	0	0	38
Elbow Pond	T3 R10	0	0	0	13
Foss & Knowlton Pond	T3R10	3	0	0	41
Grassy Pond	T3R10	2	1	0	15
Katahdin Lake	T3R8	6	0	1	717
Kidney Pond	T3R10	2	1	1	96
Lily Pad Pond	T3R9	2	0	0	20
Lost Pond	T3R10	1	0	0	30
Lower So. Branch Pond	T5R9	0	0	0	93
Lower Togue Pond	T2R9	3	0	0	384
Matagamon Lake	Trout Brk Twp	17	1	1	4165
Rocky Pond	T3R10	1	2	1	29
Upper So. Branch Pond	T5R9	0	0	0	84
Upper Togue Pond	T2R9	3	1	0	294
Wassataquoik Lake	T4R10	2	0	1	178
Total:		48	6	6	6267

<u>Loon</u>

Volunteer List

Name	Staff/Volunteer	Lake
Morgan Taylor	Interpretive Specialist	Lower Togue Pond
Ben Woodard	Chief Ranger	Upper Togue Pond
Mike Martin	Ranger	Matagamon Lake
Yves Baribeau	Ranger—Katahdin Stream	Grassy Pond
Diane Freelove	Ranger—Kidney Pond	Kidney Pond
David Planchet	Trail Crew Intern	Lily Pad Pond
Joseph Bisson	Trail Crew Intern	Foss & Knowlton Pond
Andy Vietze	Ranger—Daicey Pond	Daicey Pond
Paul Sannicandro	Trail Supervisor	Elbow Pond
Gregory Hamer	Ranger—Russell Pond	Wassataquoik Lake
Gerard Locke	Ranger—Trout Brook Farm	Lower Fowler Pond
Gabe Williamson	Ranger—So. Branch Pond	Lower So. Branch Pond
Marcia Williamson	Volunteer	Upper So. Branch Pond
Doug Rich	Volunteer	Rocky Pond
Laurie Rich	Volunteer	Abol Pond
Rick & Rachel St. Croix	Volunteers	Lost Pond
Holly Hamilton	Volunteer	Katahdin Lake

Baxter State Park

2013 Loon Count Volunteer List

Table 1.	Table 1. Moose patrol summary for the 2013 season.								
	Moose Patrol Totals 2013								
Month	Location	Patrols	People Vis	Moose	Closest Dist.	People Met	Trash	Human Waste	Parties Contacted
June	Stump	5	3	0	n/a	3	2	0	1
June	SSP	4	5	2	15 ft	38	12	0	5
July	Stump	5	0	0	n/a	0	4	0	0
July	SSP	5	12	6	100 ft	20	3	0	7
August	Stump	4	0	0	n/a	0	3	0	0
August	SSP	3	14	2	300 yds	14	2	0	1
Sept	Stump	5	2	0	n/a	2	3	0	0
Sept	SSP	5	2	0	n/a	3	5	0	2
October	Stump	5	3	0	n/a	3	1	0	0
October	SSP	5	12	1	30ft	57	0	1	4
	Total #	46	53	11	-	140	35	1	20

Alpine Steward Patrol

In 2013, mountain patrol information was recorded at a total of 195 points. The average number of people visible at any point was 18. The minimum number of people visible was 0 and the maximum number of people visible was 135. The average number of people visible at Baxter Peak was 51. The total number of people met on the trail was 4,527.

			July	/		
Date	Points	Avg. Vis.	Min Vis.	Max Vis.	BP Count	People Met
3-Jul	2	21	6	35	35	45
5-Jul	5	16	10	35	-	80
6-Jul	3	21	8	45	45	85
6-Jul	1	10	10	10	-	125
7-Jul	2	6	6	6	-	51
7-Jul	2	12	8	15	-	45
8-Jul	4	9	6	15	15	45
10-Jul	5	9	1	19	19	53
11-Jul	3	6	2	9	-	35
12-Jul	5	23	11	42	42	75
13-Jul	2	12	8	16	-	103
13-Jul	5	24	3	74	74	150
17-Jul	2	8	3	13	-	21
18-Jul	5	19	1	47	47	60
20-Jul	3	10	5	12	-	20
24-Jul	3	7	6	8	-	24
25-Jul	5	38	10	82	82	160
26-Jul	1	7	7	7	-	17
27-Jul	1	11	8	14	-	94
27-Jul	5	43	6	101	101	185
31-Jul	3	66	12	103	103	185

July: Information was recorded at a total of 67 points. The average number of people visible at any point was 18. The minimum number of people visible was 1 and the maximum number of people visible was 103. The average number of people visible at Baxter Peak was 51. The total number of people met on the trail was 1,658.

August						
Date	Points	Avg. Vis.	Min Vis.	Max Vis.	BP Count	# People Met
3-Aug	3	22	12	30	-	60
7-Aug	4	11	5	16	-	73
8-Aug	1	4	4	4	-	7
9-Aug	2	11	5	16	16	31
10-Aug	5	33	3	96	96	230
14-Aug	2	9	7	10	-	25
15-Aug	3	11	4	10	-	30
21-Aug	4	15	4	40	40	45
22-Aug	3	8	4	6	-	25
23-Aug	4	18	2	45	45	55
24-Aug	4	22	12	30	27	100
24-Aug	1	12	4	20	-	115
24-Aug	1	15	15	15	-	65
25-Aug	1	12	8	16	-	82
28-Aug	1	10	10	10	-	14
30-Aug	4	28	6	50	50	105
31-Aug	4	8	4	12	-	52

August: Information was recorded at a total of 47 points. The average number of people visible at any point was 15. The minimum number of people visible was 2 and the maximum number of people visible was 96. The average number of people visible at Baxter Peak was 46. The total number of people met on the trail was 1,114.

			Sep	tember		
Date	Points	Avg. Vis.	Min Vis.	Max Vis.	BP Count	# People Met
1-Sep	5	26	5	55	55	130
3-Sep	4	7	2	8	8	30
5-Sep	2	5	1	8	-	25
7-Sep	1	-	1	11	-	142
8-Sep	1	-	1	2	-	12
11-Sep	2	8	4	12	-	25
12-Sep	3	3	2	4	-	10
13-Sep	3	11	4	17	17	34
14-Sep	4	24	11	60	60	130
18-Sep	4	15	6	26	26	60
19-Sep	4	14	4	39	39	70
20-Sep	5	23	2	48	48	130
21-Sep	5	33	12	72	72	160
28-Sep	4	41	6	135	135	150
29-Sep	4	22	0	65	65	20

September: Information was recorded at a total of 51 points. The average number of

people visible at any point was 18. The minimum number of people visible was 0 and the maximum number of people visible was 135. The average number of people visible at Baxter Peak was 53. The total number of people met on the trail was 1,128.

	October					
Date	Points	Avg. Vis.	Min Vis.	Max Vis.	BP Count	# People Met
2-Oct	2	5	3	7	7	30
3-Oct	3	4	2	8	-	10
5-Oct	3	39	8	100	100	110
6-Oct	4	13	5	30	30	50
10-Oct	5	11	2	27	27	75
11-Oct	4	10	5	17	17	50
12-Oct	4	57	12	107	107	180
13-Oct	4	48	2	95	95	120
20-Oct	1	2	2	2	-	2

October: Information was recorded at a total of 30 points. The average number of people visible at any point was 21. The minimum number of people visible was 2 and the maximum number of people visible was 107. The average number of people visible at Baxter Peak was 55. The total number of people met on the trail was 627.

Distance Hikers Statistics

2013 Distance Hikers

						IAT	IAT	Total	Total
Month	ATS.	ATN.	Flip/Flop	Section N	Section S	N	S	People	Campers
May	18	0	0	0	12	0	0	30	28
June	197	10	5	8	51	0	0	271	229
July	93	68	30	74	30	0	0	295	254
August	21	214	31	203	43	0	0	377	302
Sept	7	314	20	53	15	0	0	409	287
Oct	0	181	1	8	0	0	0	190	143
Total	336	787	87	346	151	0	0	1707	1243

BAXTER STATE PARK

AUTHORITY/ADVISORY LISTING

Effective 5/10/2013

AUTHORITY MEMBERS	ADDRESS	TELEPHONE
		NUMBERS
DOUG DENICO, CHAIR MAINE FOREST SERVICE Doug.Denico@Maine.gov	22 State House Station Augusta, ME 04333-0022	287-2791
CHANDLER WOODCOCK COMMISSIONER IF&W Chandler.Woodcock@Maine.gov	284 State Street 41 State House Station Augusta, ME 04333-0041	287-5202 C592-2129
JANET T. MILLS ATTORNEY GENERAL Janet.T.Mills@maine.gov Augus	Six State House Station State Office Building sta, ME 04333-0006	626-8800

ADVISORY MEMBERS	TERM / APPOINTMENT DATE	ADDRESS
1. RICHARD BRAY, CHAIR	2008/2016	Brunswick, ME 04011
2. SPENCER MEYER, VICE CHAIL	R 2007/2017	Hampden, ME 04444
3. ERIC BAXTER	С	Portland, ME 04101
4. R. MICHAEL WHITE	С	Hampden, ME 04444
5. DAVE BUCCELLO	2010/2015	Bar Harbor, ME 04609
6. TOM BRADBURY	2013/2019	Norway, ME 04268-4303
7. DOUG CALLNAN	2010/2018	Houlton, ME 04730
8. SHERRY DUBIS	2010/2017	Fort Kent, ME 04743

9. DAVID EDWARDS	2008/2015	Pownal, ME 04069
10. TOM GOETZ	2008/2016	Woodland, ME 04736
11. ROSEMARY HASTINGS	2013/2019	Millinocket, ME 04462
12. STEVE HUTNAK	2013/2018	Cumberland Foreside, ME 04110
13. DARRELL MORROW	2011/2017	Gorham, ME04038
14. LAURIE NALE	2008/2018	Waterville, ME 04901
15. LAURIE RICH	2008/2014	Hampden, ME 04444

BSP ADVISORY STANDING SUB-COMMITTEES MEMBER LISTING

Revised 05/10/2013

NAME	ADDRESS
1. BRIAN NOYES, Chair	South Freeport, ME 04078
2. STEVE HUTNAK	Cumberland Foreside, ME 04110
3. RUPERT WHITE	Brunswick, ME 04011
4. CHRIS NELSON	Orono, ME 04473
5. CARL GERCKE	Falmouth, ME 04105
6. RICK BRAY	Brunswick, ME 04011
7. SPENCER MEYER	Hampden, ME 04444
8. JOHN LOYD	Harpswell, ME 04079

Baxter State Park Advisory chair and vice chair share responsibility to serve as members on all subcommittees.

• *Subcommittee members only, not BSP Advisory Committee member.

DIRECTOR'S RESEARCH COMMITTEE

Revised 05/10/2013

Jean Hoekwater, Staff Coordinator

Steven Oliveri, Gray Wildlife Park

Hank Tyler, State Planning - Retired

Dykstra Eusden, Bates College

George Matula, Unity College

Richard Dearborn, MFS - Retired Entomologist MFS

Don Hudson, Retired Chewonki Foundation

Dave Courtemanch, The Nature Conservancy

Kathleen Murray, Department of Agriculture

Don Cameron, Maine Natural Areas Program

Charlene Donahue, Maine Forest Service

Cindy S. Loftin, University of Maine at Orono

Paula Work, Maine State Museum

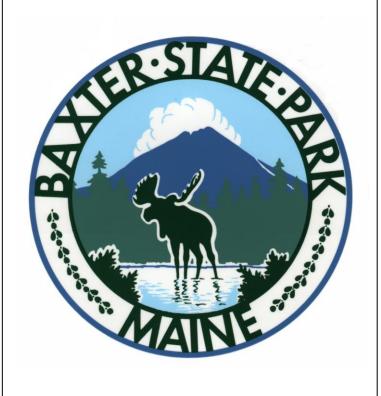
Although the majority of members do not hold Baxter State Park Advisory status, they are individuals with specialized backgrounds providing much expertise in viewing scientific study requests as assigned. Final approval or rejection on requests is the responsibility of the Baxter State Park Director.

BAXTER STATE PARK SCIENTIFIC FOREST MANAGEMENT AREA

ADVISORY COMMITTEE (Updated 5/10/2013)

MEMBERS	TERM	ADDRESS
ALISON DIBBLE, CHAIR	2018	Brooklin, ME 04616
PHILIP AHRENS	2016	Yarmouth, ME 04096
BARRIE BRUSILA	2018	Warren, ME 04864
ROB BRYAN	2018	Harpswell, ME 04079
JOHN BRYANT	2019	Holden, ME 04429
ANDY CUTKO	2019	Augusta, ME 04333-0093
ALLISON KANOTI	2016	Somerville, ME 04348
KEN M. LAUSTSEN	2017	Augusta, ME 04333-0022
EMILY MEACHAM	2019	Stratton, ME 04982
GORDON MOTT	2017	Lakeville, ME 04487
JAMES O'MALLEY	2019	Fort Kent, ME 04743
CRAIG TROEGER	2017	Van Buren, ME 04785
JOE WILEY	2018	Dresden, ME 04342
AARON WEISKITTEL	2019	Orono, ME 04469
JEREMY WILSON	2016	Hancock, NH 03449

Baxter State Park's Mission:



The Deeds of Trust direct us to provide six primary functions. Together, these six elements form Baxter State Park's Mission:

- 1. Protect the Park's Natural Resources.
- 2. Provide Recreational Opportunities.
- 3. Provide Exemplary Forest Management.
- 4. Protect Park Property.
- 5. Provide Public Safety.
- 6. Protect the Park's Fiscal Resources.