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BAXTER STATE PARK

1998

ANNUAL REPORT



BAXTER STATE PARK AUTHORITY:

CHARLES GADZIK, CHAIRMAN
Director, Maine Forest Service

ANDREW KETTERER
Attorney General

LEE PERRY
Commissioner, Inland Fisheries & Wildlife

Respectfully submitted:

IRVIN C. CAVERLY, JR.
Director, Baxter State Park
May 1, 1999

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TO PROTECT AND PRESERVE

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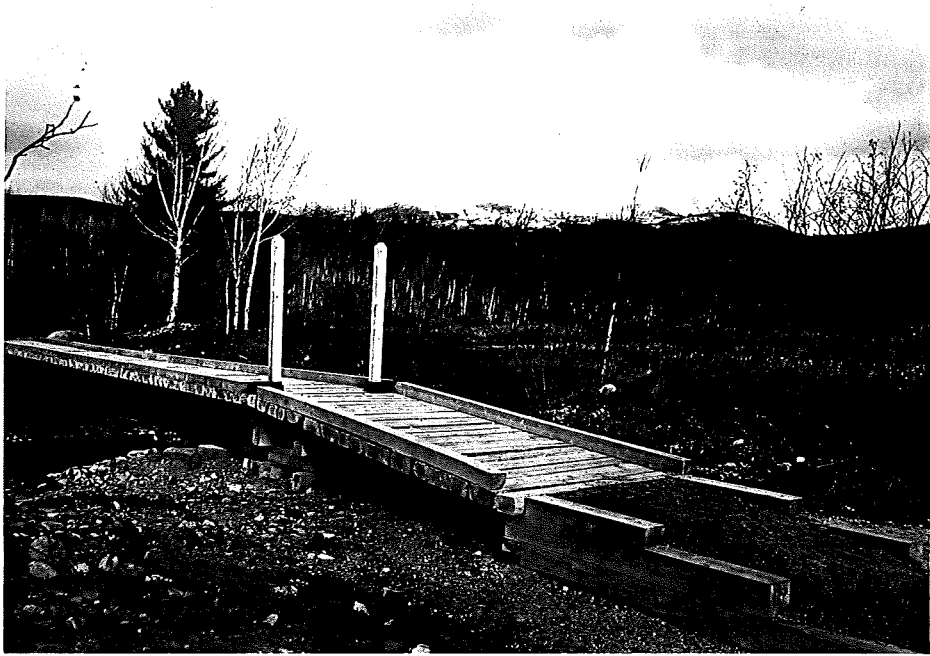
**A. DIRECTOR'S 1998
SUMMARY**

DIRECTOR'S 1998 SUMMARY

The management staff at the Heritage Motor Inn (Best Western) in Millinocket is to be commended for the manner in which they hosted visitors from across Maine and beyond, congregating for opening day reservations at BSP Headquarters. Jan and I visited the parking lot at about 8:30 in the evening on January 2. Over 70 people had arrived and were spending the night in order to get pre-registered. Some were in tents, some in sleeping bags, others were huddled and all had one common goal – to be the first in line to pick their favorite spot at Daicey, Kidney, Chimney or wherever their vacation plans may take them. Over and over I heard them demonstrate that their commitment to the hardships of the day, the long distances were well worthwhile for they were depending on a facility being available to them in 1998. We opened the doors at 7:00 A.M. at the Heritage on January 3. Staff was well organized, hot coffee, chocolate, tea, juices and muffins were available and the pre-registration format went smoothly. Shortly after mid day we were able to move the entire operation to the new conference room at Park Headquarters, and throughout the week registrations were steady. Few complaints and many compliments speak very well of Park staff as they accomplished their task of providing full and complete public services pertaining to information and reservations.

As we started our other administrative work in the early months of January, one of our top priorities was to continue the development of a draft management plan for 2,669 acres added to the Park in T2R10, namely lands between the West Branch of the Penobscot River and the old BSP Park boundary. The staff and the Use Committee from the BSP Advisory worked consistently and diligently to outline a set of objectives which we believed to be appropriate policies for managing resources and recreation on those lands. Several public work sessions were held and there was good participation by all involved. Between January and May there were trying times. A couple of issues that were most controversial were whether hunting and trapping should be allowed and/or motorized access permitted. The BSP Authority met on January 13th, reviewed all the information available, received public participation and voted on the two major issues. a) The vote was 2-1 in favor of not managing the land as sanctuary, and b) the Authority voted unanimously not to allow vehicular access. The Director was advised to proceed through the APA rule-making which would reflect the above. I was to review conditions at the crossings in the spring and report to the Authority. In late April, I reviewed the culvert crossing at Abol Stream with key staff and Advisory Sub-committee, a representative of LURC; some local citizens and the news media were also present. In viewing Abol Stream crossing, it was determined by the management team that the culverts were a safety hazard in respect to vehicular use as well as to the environment. LURC confirmed that the culverts did not meet their regulations, but stopped short of saying the culverts may be removed. In consideration of all of the above, I recommended to the BSP Authority that they authorize me to remove the culverts, stabilize the stream bank for environmental protection as well as continue restoration and cleanup of old salvage roads on the lands. A few weeks after the vote, the Authority suggested that we install footbridges across Katahdin Stream and Abol Stream to allow better access to West Branch lands trails. I concurred and committed to them that I would have the bridges in place by the start of the fall hunting season. With the cooperation and

assistance of Park staff, LURC and other interested parties, we achieved that goal (see photo contained within this report.



Abol Stream Footbridge



Katahdin Stream Footbridge

On numerous occasions I have met with Mr. McPheters and Mr. York (inholdings) to respond to specific questions they have asked. We have committed and carried out a mission of assisting them whenever possible as a good neighbor policy. An example of some of our efforts are offering to move heavy items needed at their camp by snowsled in season such as firewood, propane gas or other reasonable considerations.

The Finance committee has been most helpful during 1998 in keeping the staff involved and informed on investment strategy and the results thereof. The market has been very good, and throughout the duration of the calendar year market values remained at about 49 million dollars. Interest and use, facility fees necessary to maintain our budget were utilized and surplus interest was retained for long term growth. Consequently the Park remains financially sound, and I sincerely appreciate the effort that the trust managers and the Finance committee put into their jobs and assignments, for we can only protect the natural resources according to trust provisions with the support of the financial resources managed by those who hold them in trust and generate revenues.

During the year the Chief Ranger has done an excellent job in coordinating search and rescue teams for complete training, safety and response capabilities. This has required substantial time within the staff, the local level, the Maine Search and Rescue Association and a conference sponsored by Maj. Gen. Earl Adams in Augusta. Park Naturalist Jean Hoekwater has continued positive results in coordinating with scientific research requests and the Director's Research Committee. Jensen Bissell has consistently maintained the highest quality of forest management objectives within the SFMA, kept current on forest issues in Maine and worked diligently to assist with management of the Austin Cary Lot, the Mt. Chase lot and other Park operational matters as assigned. Malcolm Coulter, Jr. is extremely effective in keeping the bills paid, supervising mechanical shop and contributing to the efforts of personnel, payroll, information and reservations. He has been of particular assistance to this officer on specific assignments in preparation for policy decisions. And last but certainly not least, the person that helps me the most frequently and who is called on a daily basis to keep me on track is Roxanna McLean. I would be remiss not to acknowledge, in a general statement, the support and assistance of all Park staff for their contribution to their individual job assignments as well as all other categories that may be assigned which keeps our Park successful, maintained and provides the public services necessary. Several years ago I was having a cup of coffee with some Authority/Advisory members and one of the Authority members made the comment that it was difficult to train new people, but when done, important to provide them the autonomy necessary to do the job and then step aside with full confidence and let it all happen. A second Authority member confirmed that that was the appropriate process and his experience had been that successful managers and departments follow that process when they were assured that the individuals could handle the responsibilities and instill confidence. I reaffirmed that my experiences at BSP, had demonstrated that was true with employees in the past and currently. Our Park seems to instill in individuals who are hired a natural desire to meet trust objectives and for all of this and to all of them, we shall always be grateful.

Speaking of appreciation, Advisory member Ed Dwyer has continually and consistently, throughout the year; worked hard and gone far beyond the call of duty to keep the 25-year history on the move. It is primarily through his efforts that we hope to see this go to publication early in 1999. Thanks Ed.

The accident of Louis Cothalis, covered in detail within the report, was a traumatic experience for all involved. We are extremely grateful that his progress and recovery have been ongoing. I look forward to the day that he will return to the Katahdin area, and we can shake his hand and congratulate him on his remarkable strength, which brought him through this ordeal.

One of the highlights of 1998 was when I had the opportunity to spend time with Lee Perry and his wife traveling through BSP and reviewing its facilities. We covered a lot of territory and issues between Togue Pond and Foster Field, and Lee spent the remainder of the day traveling with Jensen in the SFMA. The trip was extremely beneficial to us in getting familiar with our new Authority member and to bringing him up to date on issues. We trust it was equally rewarding to him.

A visit by Neil Rolde this fall during Katahdin Area Trail Days resulted in his book signing of *The Baxters of Maine*. Trail Days was a very successful first attempt by the local Chamber of commerce to recognize long distance hikers who have completed the A.T. from Georgia to Maine or vice versa. I was privileged to be the key note speaker and enjoyed the opportunity to reunite with old acquaintances and to reminisce over the years the trail and its users' relations and experiences with BSP.

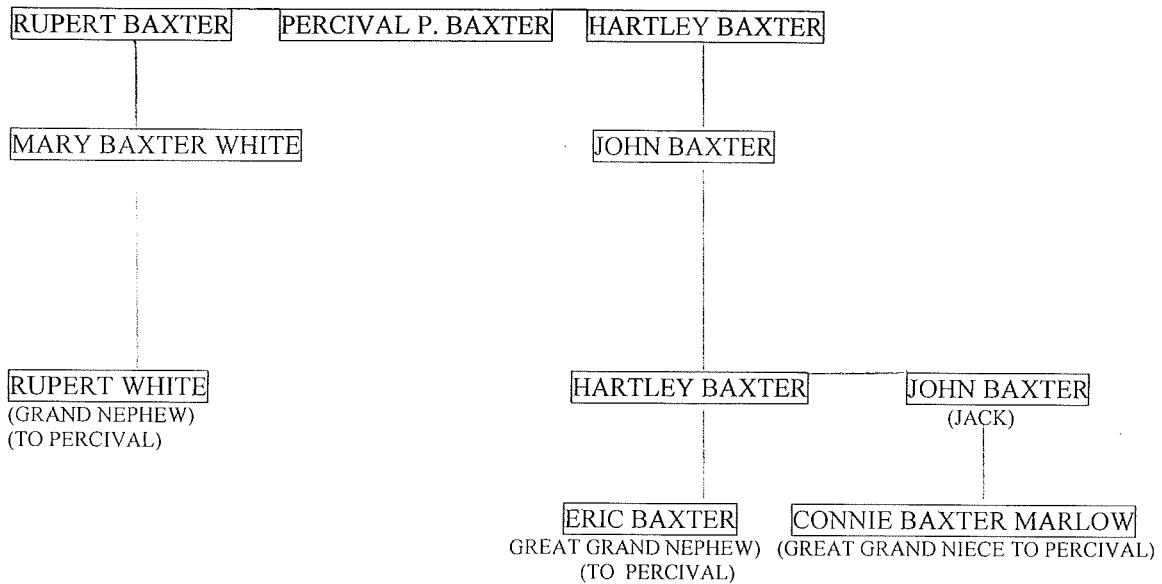
Another distinguished guest who visited the Park this year was our long time friend Mary Baxter White. She camped in a lean-to at Katahdin Stream with her son Rupert and family. I had an opportunity to visit with her at the lean-to, and as she sat there and enjoyed the atmosphere and enjoyed listening to the brook, she worked continuously on her knitting as we talked and reminisced. To my surprise, several weeks later, she sent to me the results of that work which is a precious gift that I shall cherish. Our congratulations to Mary as she continues to enjoy the park that her uncle made available to all Maine people.

Speaking of Governor Baxter and his descendants, it was an honor this year to again see Connie Baxter Marlow. She had spent a lot of time at the Park about 20 years ago when she was doing her book on wildflowers. She continues her interest in effective resource management and the peace of all people. She plans to return in 1999, and we look forward to her continued visits and interest in Baxter State Park. Connie is a great grand niece to Percival P. Baxter. I believe Rupert told me a few years ago that there are about 115 descendants to James Phinney Baxter, Percival's father. Thought you might enjoy a bit of the family tree.



Director Buzz Caverly and Connie Baxter Marlow

JAMES PHINNEY BAXTER



BSP continues to maintain an interest in the work that governor Baxter accomplished by providing Mackworth Island to the State of Maine. The Education Department manages the school facility and buildings. The Bureau of Lands and Parks manages the natural resources of the island. A few years ago I was privileged to be appointed by the Legislature to serve as Chair of the Mackworth Island Committee. One of our intents and assignments was the monitoring and upkeep of the cemetery Governor Baxter had created for his dogs and horses. Consequently during the year I communicated and on one occasion visited the island. Although the pet cemetery facility was generally in good shape, head stones were deteriorating and needed more than repair. I communicated this to the Bureau of Lands and Parks, and we are all optimistic that new stones will be prepared and installed during the upcoming months.

This year I have received requests and, in fact, responded to numerous speaking engagements on behalf of BSP as well as approving and assigning other requests to Administrative staff members, and in one situation, the Trail Crew Supervisor. Governor Baxter clearly wanted the people of Maine to enjoy their Park, and I believe that desire was not restricted only to those who could visit the Park, but also to those within our State who, for whatever reason, cannot come to BSP. We attempt to take the Park to them via dialogue, reports, slide presentations and first hand experiences. Consequently we travel within our State boundaries to achieve these goals. Although we do not charge for these services, we do stipulate that under general considerations, we respond to these requests which take us away from the Park during the months of December through April, putting our full focus at the Park during the summer operating season. This policy seems to work well and allows a lot of people of Maine to communicate with us.

As indicated within the contents of this report, our Park continues to function effectively in all aspects of its operation, public relations and mandates. It is a personal privilege and honor to provide to the Authority, Advisory and the people of Maine this activity report, and as I close out my opening comments, I extend to each person who has supported our Park, in whatever level, a sincere thanks. In addition, to the Authority and Advisory, a sincere appreciation for your support.

B. OPERATIONAL HIGHLIGHTS AND OVERVIEW



Abol Field Crew Camp – Fall 1998

I. OVERVIEW

The winter of 1997-98 brought deep snows early in the season. There was over three feet of snow by January, followed by a severe ice storm. Park Rangers assisted in two rescue operations during the winter season. The most serious search and rescue incident occurred January 26-27, 1998 on the Abol Slide of Mt. Katahdin. Steve Cothalis sustained a severe head injury after falling and bouncing several hundred feet down the icy slope. The 112th Medevac National Guard airlifted Mr. Cothalis off the mountain. He was in a coma for over a month and is slowly recovering.

In April Park Rangers opened the Park tote road from Togue Pond to Kidney Pond and Daicey Pond and from Matagamom Lake to South Branch Pond using a small Maine Forest Service bulldozer. The early removal of the snow assured earlier road access for staff and the public in May.

Baxter State Park had heavy public use during the summer months. There were 29 search and rescue incidents of record with two fatalities on Mt. Katahdin.

The Ranger's cabin at Nesowadnehunk Field was struck by lightening. The fire was suppressed in the building, but radio damage was substantial.

MAJOR PROJECTS COMPLETED IN 1998 INCLUDE:

1. Construction of new handicap friendly toilets at Togue Pond, Rum Brook, Katahdin Stream Campground, Foster Field, Nesowadnehunk Field Campground (2) and Matagamom Gate.
2. Remodeled regular vaulted toilets to be handicap friendly at Abol Campground, Daicey Pond, Kidney Pond, South Branch Pond Campground and Trout Brook Farm.
3. Replaced lean-tos at Chimney Pond (1) and Pogy Pond (1) with cedar log lean-tos.
4. Landscaped, reseeded and mulched the old Roaring Brook dumpsite.
5. Repainted 11+ miles of Park boundary.
6. Removed debris, old culverts, illegal fireplaces on numerous logging roads on the newly purchased West Branch lands in T2R10. Also installed waterbars and drainage ditches on eroded portions of these old roads.
7. Two new trails were added to Baxter State Park in 1998:
 - a. Abol Pond Trail – 1.7 miles long – connects the Appalachian Trail to Abol Pond
 - b. Rum Pond Trail – 1.8 miles long – connects from the Round Pond ski trail to Rum Pond and the Roaring Brook road.
8. The OJI trailhead was relocated to the parking area at Foster Field.
9. Four new footbridges were built on the Appalachian Trail on the newly purchased West Branch lands:
 - a. Abol Stream Crossing – 65 feet long
 - b. Katahdin Stream Crossing – 82 feet long
 - c. Lower Nesowadnehunk Stream South Branch Crossing – 24 feet long
 - d. Upper Nesowadnehunk Stream South Branch Crossing – 16 feet long

10. 950 feet of bog bridging was installed on the Wassataquoik Lake Trail (450'), Sentinel Mt. Trail (340') and the Cranberry Pond Trail (160').
11. Erosion control work was done on the Chimney Pond Trail above Pamola Brook, the Hunt Trail (AT) above Katahdin Falls, Little Abol Falls Trail, the Saddle Trail near the Cathedral Trail Junction and the South Turner Mt. Trail.
12. Replanking of the Kidney Pond Bridge over Nesowadnehunk Stream.
13. Resided south wall of the Campground Ranger cabin at Roaring Brook.
14. Removed five old toilets – three from Abol Scout area – two from Rum Brook day use area.
15. Reshingled three cabins:
 - a. Nesowadnehunk Field
 - b. Abol Campground
 - c. Togue Pond – Trapper John cabin
16. Brushed out 25 miles of Park tote road from Nesowadnehunk Field to Matagamon Gate.
17. Park Rangers assisted in grounds preparation for the new garage at the Director's residence and the Abol Field crew camp facility.

The fall months showed heavy hunting activity in T6R10 and T6R9. One lost hunter was safely found on 11/12/98 near the Hudson Pond area of T6R10. Fall hikers were met at Togue Pond gate (extended fall season) to inform mountain climbers of snow and trail conditions. A major search and rescue operation was initiated on 10/31/98 for Tim Boomer who spent several nights without shelter on snow covered Mt. Katahdin.

The Carry-In, Carry-Out program showed an increase in the volume of trash in 1998 of 2.58 tons. The 1997 trash volume was 6.69 tons, was lower than the 1998 trash volume of 9.27 tons. The extra volume is being deposited at the Togue Pond beach area.

A total of 185+ volunteers donated 5,797 hours of volunteer service in 1998. Four search and rescue teams (Lakes Region, Lincoln, Mahoosuc and Wilderness) volunteered 768 hours of service during high use weekends in July, August and September. Trail work volunteers chipped in another 1948 hours toward trail maintenance.

There were no animal problems in 1998. The beaver, bear and raccoons were quite well behaved.

A lightening strike in T6R9 near Hay Brook and the northern township line was suppressed by Park Rangers on August 2, 1998.

II. SAFETY

Baxter State Park has an active safety program. Noteworthy safety activities in 1998 included:

1. Chainsaw safety orientation and training for new employees was conducted by Trail Supervisor Lester Kenway.
2. Deteriorating bridges were removed on Turner Brook and Abol Brook.
3. New bridges were installed on the Appalachian Trail at Abol Stream, Katahdin Stream and Nesowadnehunk Stream.
4. Temporary bridges were installed at Abol Brook to access the West Branch lands and Turner Brook.
5. Safety is the first topic of discussion at Ranger staff meetings at Millinocket Headquarters.
6. Park staff replaced rotten planking on the Kidney Pond Bridge over Nesowadnehunk Stream.
7. 950 feet of bog bridging was placed on the Sentinel Trail, Cranberry Pond Trail and Wassataquoik Lake Trail.
8. Park Rangers cleared brush on the Park tote road from Nesowadnehunk Field to Matagamon Gate and the McCarty Field road.
9. Park Rangers replaced damaged culvert and removed hundreds of wind thrown trees on 50 miles of Park tote road.
10. Medically and technically trained MASAR Search and Rescue teams (Lakes Region, Lincoln, Mahoosuc and Wilderness) covered busy summer and fall weekend search and rescue activities. This beneficial assistance lessens fatigue and injury risk to Park Rangers and expedites rescue operations.
11. All campground and campsite fire rings were inspected for fire safety.
12. Bunkhouses, cabins, picnic shelters, tables, lean-tos and footbridges were inspected for serviceability and safety.
13. Propane lights and appliances were inspected for leaks. Informative signage was attached to propane tank hoods.
14. Canoes, boats and motors are inspected and maintained in good working order. All lifejackets are inspected for serviceability.
15. All wood stoves and chimneys are cleaned and inspected annually. Four new metalbestos chimneys were installed at Abol, Katahdin Stream and Daicey Pond Campgrounds.
16. Park visitors are informed daily of weather conditions and trail conditions to ensure a safe hiking experience.
17. Handrails were added to numerous toilet facilities to make them more handicap friendly.
18. A "Lights on for Safety" sign was posted at Togue Pond Gate to give better visibility when driving Park roads.
19. Removed snow from Park tote road to Kidney Pond, Daicey Pond and South Branch Pond to improve road conditions for safer early access.
20. Three vehicle accidents occurred when one employee could not avoid hitting a deer (destroyed) causing no vehicle damage, and another employee managed to

miss a deer but not a large tree totaling the vehicle. No individuals were injured. Another employee lost control of the pickup he was driving on ice covered roads. The damaged truck was auctioned off.

III PUBLIC RELATIONS

1. Baxter State Park Gatekeepers, Rangers and the Togue Pond Information Office made over 90,000 contacts with public users.
2. Baxter State Park employees offer assistance to the appreciative public by helping with numerous services. These include jump-starting vehicles, shuttling hikers, delivering messages, pulling vehicles out of ditches. Other public services include giving information on trail conditions and weather forecasts. Major and minor first aid is given to many hikers and campers.
3. Park staff is frequently involved in participating in weekly campground talks at Daicey Pond and Kidney Pond.
4. Park Rangers assisted numerous winter parties by packing ski trails and hauling fatigued users and their equipment.
5. Park personnel rendered assistance to injured, fatigued and late hikers coming off Katahdin trails.
6. The Trail Crew "Mt. Patrol" greets and assists numerous hikers on Mt. Katahdin during the busy summer months.

The Chief Ranger was involved in various speaking engagements in 1998. These include:

3/7/98	Trout Unlimited Banquet, Brewer, ME
4/9/98	Hitchborn School, Howland, ME
4/18/98	Maine Bowhunters Annual Banquet, Portland, ME
8/26/98	Daicey Pond Talk, BSP
11/6/98	Annual Old Crow Indian Band Banquet, Wilton, ME
12/4/98	Hanington Bros. Annual Christmas Banquet, Houlton, ME

IV TRAINING

1. Employees returning from previous seasons are updated to the changes in operations during the previous year. New employees meet with their raters and discuss expectations, and are trained by both the supervisors and returning employees.

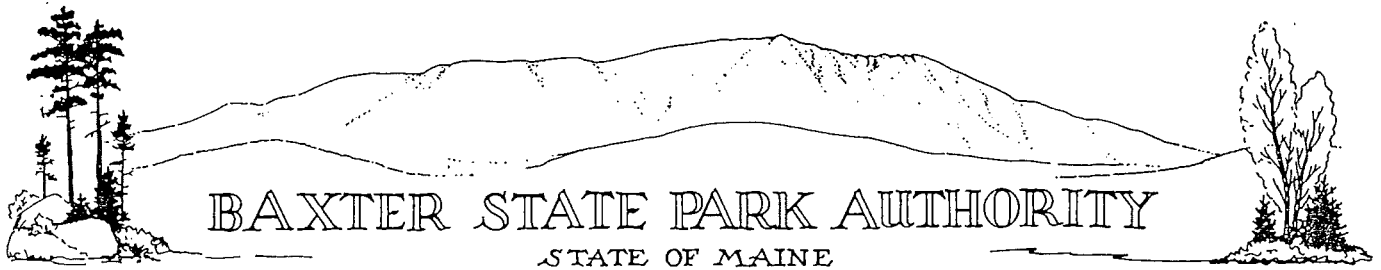
2. The Park provides Wilderness Responder training to new campground personnel and others renew their certification.
3. Park campground employees received training on the new fireplace inspection laws as they apply to the Park.
4. Employees received training in the use and safe handling of chainsaws a program instructed by Lester Kenway.
5. Park staff participated and assisted in two winter search and rescue training exercises with:
Wilderness Rescue team – February 13-17 at Chimney Pond/Katahdin
Mahoosuc Search and Rescue team – February 27-March 5 at Chimney Pond/Katahdin.

V SEARCH AND RESCUE

There were two fatalities and twenty-nine incidences involving Search and Rescue of various types. They are as listed:

	<u>DATE</u>	<u>LOCATION</u>	<u>NAME</u>	<u>INJURY/EVENT</u>
1.	1/26/27	Abol Trail	Steve Catholis	Head injury
2.	3/2	Chimney Pond	John L. DiCuollo	Strain left knee
3.	5/25	SFMA/Webster	Chris Twomany	Lost
4.	5/26	Ledge Falls	Linda Leach	Left ankle fracture
5.	6/4	Roaring Brook	Tammy Doughty	Heart palpitation
6.	7/1	Dudley Trail	Shane Ford	Hyper-extension right knee
7.	7/1	Perimeter Road	Keith Botting	Lost
8.	7/4	Abol	Albert Zeising	Ribs and head
9.	7/6	Chimney Pond	Jennifer Irish	Knee injury
10.	7/12	Togue	Casandra Demers	Auto accident
11.	7/15	Hunt Trail	June Pezzullo	Right tibula
12.	7/21	Katahdin Stream	Ed Pearson	Swollen left ankle
13.	7/25	Knife Edge	Richard Smith	Heart attack/death
14.	8/1	Katahdin Stream	Elizabeth William	Broken leg
15.	8/9	Knife Edge	Lucretia Yentes	Fall head
16.	8/10	Chimney Pond	Rebecca Greenberg	Dehydration
17.	8/13	Cathedral Trail	Samuel Willis II	Heart attack/death
18.	8/14	Hunt Trail	Sarah Tepper	Sprained ankle
19.	8/22	Hunt Trail	Bernie Sander	Exhaustion/minor head injury
20.	8/25	Hunt Trail	Cathy Bsilis	Left knee
21.	9/16	Chimney Pond	Donald Goulet	Left ankle
22.	10/8	Chimney Pond	Chip Derr	Overdue hiker
23.	10/15	Chimney Pond	Ed Burk	Inner ear/balance problem

24.	10/17	Katahdin Stream Falls	Tim Nielsen	Multiple laceration to head-hip-legs
25.	10/31	Hunt Trail	Tim Boomer	Hypothermia
26.	11/12	Hudson Pond	Nat Skippey	Lost Hunter
27.		Kidney Pond	David Little	Ax cut on hand
28.		Trout Brook	Jonathan Bright	Cut index finger/left
29.		Chimney Pond	Kati S. Holmes	Ankle injury



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January 27, 1998

TO: BAXTER STATE PARK AUTHORITY

FROM: *Buffy* IRVIN C. CAVERLY, JR., DIRECTOR, BAXTER STATE PARK

SUBJECT: ACTIVITY REPORT #1 - TECHNICAL CLIMBING INCIDENT

January 26, 1998 was a relatively routine day at Park Headquarters, busy but routine. At about 3:50 in the afternoon Secretary Roxie McLean and I were finishing up some correspondence when I made the comment to her, "Another day, another dollar. Let's wrap it up." At 3:58 the Reservation Office received a phone call from the Millinocket Fire Department and were advised that Linda Belmont had reported that Jim Malumthy of New Milford, CT was at her residence and reporting that a male subject in his early 30's, who was a member of their technical climbing party, had fallen on the Abol Trail and sustained serious head injuries.

Upon receiving the information, I notified Chief Ranger Chris Drew of the report, and he and I spent the next 45 minutes identifying the availability and location of staff and organizing an advance crew to head to the scene. Ranger Bob Howes started for Abol with a crew of five people at about 4:45 P.M. They were able to take snowmobiles to about one mile up the Abol Trail above Abol Campground. The next mile + to the scene was extremely difficult in terrain and ice conditions (see attached map and note the contour lines). Using every safety precaution available to them, they reached the victims at about 8:25 P.M. Ranger Stewart Guay reported various injuries to the upper part of the body, breathing and pulse were steady, victim was 1/3 to 1/2 way up Abol Slide, elevation estimated at 3,000 feet, winds 10-15 miles per hour blowing down the slope. The victim's name was Steven Cothalis. His brother Louis was with him, had done his best to stabilize, was cold and moving around a lot trying to keep warm and seemed to be doing quite well.

Shortly after I received the initial report, we went to the files, pulling out a copy of the groups' application, itinerary, permit for winter expedition and confirmations. The team was reported to consist of Terry Robbins, 3 Batchelder St., Waterbury, VT, team leader, assistant leader Don Bernier, 3 Woods Way, Woodbury, CT, and Lou Cothalis, 33-05 191 St., Bayside, NY. Unsure of which one was the victim, we applied a numbering code to four names in the event that this ultimately was a fatality, Rangers at the scene could advise me by number who the victim was without releasing confidential information over our radio system. We learned two things through this process early on. One was that Steve Cothalis was the victim with serious head injuries. Secondly we learned that Terry Robbins, the leader, had dropped out of the party and was not here, and, in fact, Jim Malumthy of 9 Town View Drive, New Milford, CT was substituting as the team leader unbeknownst to us and without any notification to us. I am sure that this transition on the surface seemed to be a minor event in the view of the party members, but as I emphasized to Don and Jim later, we took it as a serious infraction because by making the switch, we had no verification that Jim had the leadership skills, and if we had been contacted because this party had become lost or an even more tragic event, we would have been looking for Terry Robbins. They recognized this error in judgment and apologized sincerely.

For the next five hours, our efforts were concentrated on getting support services. The 112th Medevac in Bangor sent a Huey to the area and three trips were made from Millinocket to the mountain in an attempt to accomplish the mission of evacuation. The first trip was after dark and a reconnaissance in attempt to locate the victims from the air. We were told later that they were just short of the scene and the spotlight was nearly hitting the victim when they were forced back due to high winds and the need to refuel. As there is no aviation fuel available at the airport, the Maine Army National Guard sent their fuel truck from Bangor to Millinocket. By the time the aircraft had returned to Millinocket and fueled, ground crews had reached the victims.

After consulting with the pilots via radio, the pilots' decided to return to the scene and attempt a lift. If that was unsuccessful, the plan was to drop to a lower elevation and pick up the brother and one rescue team member who we feared were approaching hypothermia stages. Due to location they were not able to pick up the primary victim, but were successful in evacuating Lou Cothalis and Frank Taylor, a volunteer. They brought them to Millinocket airport where they were picked up by Millinocket Fire Dept. ambulance, transported to the hospital, examined and then released. After about an hour and 15 minutes in extremely difficult conditions, Ranger Stewart Guay and Greg Hamer reported that they had moved Steve Cothalis to the LZ. By this time, the National Guard had refueled and started their return to the scene.

At 12:53 P.M. I was advised by Guard Unit 778 that they had the victim on board and were on route to the Eastern Maine Medical Center in Bangor. I was asked to call the emergency facility and advise that they would be arriving in about 30 minutes, landing on the heliport at the EMMC, and as they got closer to the area, the Guard would make direct contact with the Emergency Room staff to give a status report on the victim and to arrange clearance for landing. Jim Malumthy report - In interviewing Jim, he advised that

a party of four were making a technical climb up the Abol Trail towards Baxter Peak. As they reached the upper elevations, Jim and Steve were up front. Steve suggested that ice conditions were pretty testy and they should end their climb and return. All agreed as they discussed that plan. Jim said that he had turned around and was starting back when he heard and then noticed that Steve had fallen and was sliding by him out of control and at an atrocious speed. Steve fell an estimated distance of 800-1,000 feet and as described by Jim, bounced at least a couple of times, airborne, landed. When the party descended and arrived at the scene, Steve was bleeding severely, unconscious and unresponsive, but alive. They did their best to stabilize and secure him with warmth to every extent possible. Lou stayed with Steve. Jim and Don went for help. From 1:00-3:00 A.M. Jan and I worked together at the office winding down the operation. Overnight accommodations and transportation were arranged for those who needed it. Completed paperwork in note form and via radio request to Chief Ranger, I requested a person be designated as sweeper to make sure all involved were present and safely off the mountain. I signed off at 3:00 A.M. and back on at 6:20 A.M. on 1/27/98, picked up the fuel truck drivers at the Atrium Motel and returned them to their vehicle which had been secured for the remainder of the night in our support services yard. They left for Bangor about 6:45 A.M. From the information I have at the writing of this report, it appears that rescue units and Park staff worked through till the dawning hours of the day. At the writing of this report at 8:30 A.M., all is quiet, the day crew has reported to work, and I am hopeful that the night crew is getting some well deserved R&R.

My compliments to Chief Ranger Drew, Ranger Bob Howes, his wife Jean Howes, Ranger Stewart Guay, Seasonal Rangers Greg Hamer and Frank Taylor, volunteer Scott Fisher, Resource Manager Jensen Bissell, Park Naturalist Jean Hoekwater, Ranger Mac Browning, Wardens Andy Glidden and Jim Davis, Warden Sgt. Rick Mills, and Paul Smith, Mark Weatherbee, Jerry Menard, Vern McMoarn and Carl Stewart of the Lincoln S&R team as well as Peter Laveway, Paul Labby, Dave Carney, Ed Cunningham, Chloe Chenn of the Wilderness Rescue Team. They traveled from as far away as Portland by vehicle, arriving here at about 12:45 ready to assist wherever they were needed.

I, as well as all of the above, are deeply grateful to Col. Rod Carmichael of the Maine Army National Guard for their support and assistance and effective evacuation of three individuals in distress. This 12-hour + ordeal that extended into a 15-hour operation would have been double that time with a high risk of injury to many people without the cooperation and successes of the Maine Army National Guard.

My thanks to Lt. Pat Dorian for the support and participation of the Maine Warden Service. Special thanks to the Millinocket Police Department Chief Warren Nelson, Fire Department Milan Thornton and the emergency staff at Millinocket Regional Hospital and Eastern Maine Medical Center. Also our thanks to Cal Weeks, Manager of the Millinocket Airport, for the assistance of that facility. My appreciation to Chair Chuck Gadzik for returning my call at about 11:00 P.M. from Washington, DC so that I might brief him on the activities. As of 8:30 A.M. on 1/27/98, we do not know the prognosis of Steve Cothalis. What we do know is that for 12 hours he and his brother Lou experienced

a terrible and traumatic experience under severely adverse conditions on Maine's highest mountain. We wish them well and God speed for a full recovery. Attached to this report is a sketch map of the scene, radio logs and subsequent reports, an inventory of the participants within this operation and a cost analysis summary of the operation. If further information is needed, please contact me for follow-up.

Vendors who provided food, supplies, services and lodging for all units are gratefully acknowledged, namely: Millinocket IGA, the Busque family and staff of the Hotel Terrace, the Atrium and the Millinocket House of Pizza.

UPDATE 9:15 A.M.

Don and Jim stopped by my office as I was completing the narrative on this incident. I asked if they had heard anything from Lou on Steve's condition. They advised no and were about to ask me the same thing. I asked Roxie to make contact with EMMC. I inquired if Steve was there, was advised he was in intensive care. I asked if his brother Lou was with him. They confirmed he was and forwarded my call. Lou reported to me that Steve was unconscious, his body temperature was 96°. He has no broken bones, some frostbite on hands and feet. Through medication they are attempting to equalize his treatments and Lou estimated that he may be unconscious for several days, but a full recovery is anticipated.

In closing I would comment that several years ago, when we were developing our first winter registration regulations, we had drafted them similar to regulations used in McKinley Park and have modified them to fit Baxter over the years. However from early on, due to the remoteness of BSP, the elements of Maine's highest mountain and the rigidity of our Maine winters, we have insisted that all parties register in advance, meet a number of criteria including a minimum of four people per party, for the theory of four is that one will not be left alone in a dangerous situation or terrain. If an injury occurs, one member of the party will remain with the injured and two members traveling together will proceed to the closest duty station for help. This logic applied in this situation and the rule of partnership has spoken for itself.

ICC:rm

FATALITY ON CATHEDRAL TRAIL

August 13, 1998

At approximately 1150 A.M. on 8/13/98 a telephone call was received from the Maine State Police to the Park director indicating a medical emergency on the third Cathedral portion of the Cathedral Trail on Mt. Katahdin. A male in his early 60's had collapsed after complaining of chest pain. He is conscious.

The Chief Ranger called the Chimney Pond Ranger (Greg Hamer), informing him of the medical emergency. Greg was simultaneously receiving the same information from a hiker from the emergency scene. Additional information from Greg included that the injured person was 61 years of age. The Chief Ranger contacted CW4 J. Raymond Scammon of the 112th Medevac of the Maine Army National Guard based in Bangor, Maine, and requested air assistance. Mr. Scammon requested latitude and longitude information and other pertinent information. Mr. Scammon would call back when lift off was eminent.

Calls were made to the Maine Forest Service (John Knight, Chief Pilot) for refueling assistance by sending a fuel truck to the Millinocket airport, and to the Millinocket Fire Department requesting ambulance assistance at the Millinocket Airport. Wilderness Rescue personnel (Paul and Gretchen Labbe) left Roaring Brook to go to Chimney Pond to assist. Campground Ranger Stewart Guay left Roaring Brook to pick up the S&R walkie talkie at Togue Pond, and to go to Caribou Pit to meet the Medevac helicopter to transfer the Park handi talkie to flight personnel.

Further communication to Maine Army National Guard personnel pinpointed the victim's location at a latitude of 45° 54' 05" and a longitude of 68° 55' 30" and 1/2 due north of Baxter Peak on Mt. Katahdin. Wind speed at the scene was estimated at 10-15 MPH with clear visibility. CPR was performed for an hour and twenty minutes. Ranger Hamer called in a Code 11 (deceased person) at 1318 hours. The National Guard (Major David Smith) was notified of the death of the hiker. Permission to continue the mission to remove the body was approved to avoid potential harm to evacuation personnel in such a dangerous environment.

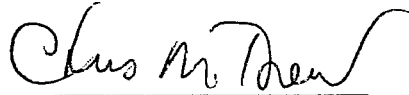
The Blackhawk helicopter left Caribou Pit at 1347 hours and was hovering over the 3rd Cathedral area at 1355 hours. The victim was packaged and airlifted at 1431 hours and shortly arrived with the body at the Millinocket airport. The Park Director and Robert Bouchard took the body of Samuel T. Willis of Glastonbury, Connecticut to the Bouchard Funeral Home at 11 Tamarack St., Millinocket, Maine. The Medical Examiner's office was notified previous to the evacuation. Dr. Connelly of the Millinocket area examined the deceased at about 1730. The Chief Ranger remained with the deceased in the interim time.

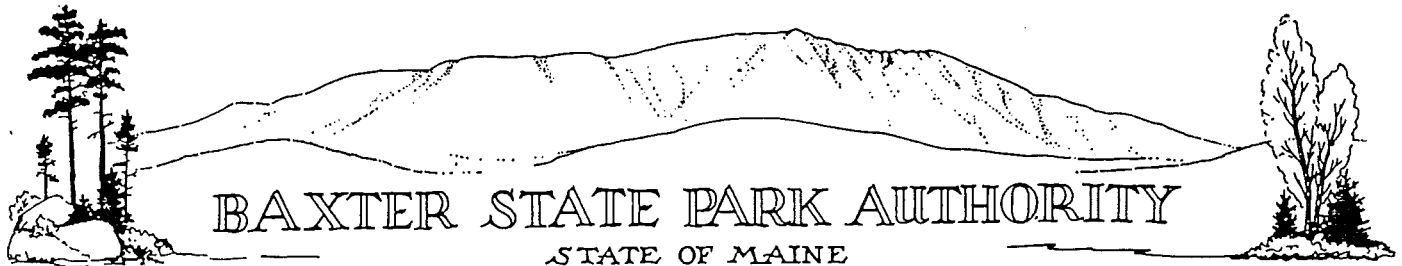
Paul and Gretchen Labbe walked down with the grieving family members:

Family with Samuel Willis, II on Cathedral Trail 8/13/98

Norman Joseph Finizio, II (son-in-law)
Maria-Elena Willis Finizio (daughter)
31 Graham St. Tel: 617-770-3370
Quincy, MA 02169

Sofia Willis (daughter)
12 Alton St. Tel: 617-646-0929
Arlington, MA 02174

Submitted by: 
Chris Drew, Chief Ranger
Baxter State Park



AUTHORITY MEMBERS

CHARLES GADZIK, CHAIRMAN
DIRECTOR OF MAINE FOREST SERVICE

ANDREW KETTERER
ATTORNEY GENERAL

LEE PERRY
COMMISSIONER OF INLAND FISHERIES AND WILDLIFE

INFORMATION

(207) 723-5140

PARK HEADQUARTERS

ADMINISTRATION 723-9616
IRVIN C. CAVERLY, JR., DIRECTOR
64 BALSAM DRIVE
MILLINOCKET, MAINE 04462
(207) 723-9500

July 28, 1998

TO: BAXTER STATE PARK AUTHORITY

FROM: *IRV* IRVIN C. CAVERLY, JR., DIRECTOR, BAXTER STATE PARK

SUBJECT: ACTIVITY REPORT #3

The week of July 20 started as normal as preceding weeks. However, before it ended on July 25, it proved to be a week of extremely busy schedules and activities for BSP employees. The weather was ideal for outdoor activities during this period, visitation was high, and the numbers of people climbing our mountains were above normal. Our experience has been that whenever these factors are present, something is going to happen, and, unfortunately, when it does, there can be two to three incidents simultaneously. After completing my week's work on Friday, I traveled to my home in East Corinth for the weekend.

On Saturday at about 1:45, I got a phone call from Ranger Bob Howes advising that there had been a fatality on Knife Edge. He gave me a quick overview of circumstances, and I asked that he remain at Park Headquarters for my travel time was about 1 ½ hours from home to the office. When I arrived at Park Headquarters, I learned that a climbing party of about 8 people had left Avalanche field during the morning hours and had climbed the Helon Taylor Trail to Pamola Peak. As they proceeded across Knife Edge, three individuals were hiking ahead of the rest of the party, namely Richard K. Smith of N. Reading, MA, Tony Lore of N. Reading, MA and Rick Hassle of Wayland, MA. Just before arriving at Chimney Peak, which is about ¾ of the way from Pamola Peak, Tony advised that Richard Smith complained that his legs hurt, and a very short time thereafter he fell to the ground, striking his head on the rocks. Tony and Rick, as well as others who were hiking in the area, tried to assist him with CPR. A woman, Julie Moser, who

identified herself as a cardiac nurse administered CPR for about 20 minutes. However there was no response and CPR was terminated and the individual was pronounced deceased.

The information I had when I arrived was that Mr. Lore and Mr. Haskell had taken Mr. Smith's personal pack and belongings, left the scene and were returning to their campsite in Avalanche Field. One of our Mountain Patrol members, Cassie Wyss, came on to the scene and radioed the report to Ranger Howes. Park staff was dispatched to the scene to maintain security while we proceeded to make provisions for evacuation. At about this same time, we received a report that a woman hiking on the AT had sprained her ankle and needed assistance. A short time after that we got a call from out of state regarding an attempt to locate. This involved a situation where a couple had left home to go camping in BSP and had not been heard from for several days.

In reference to the incident on Knife Edge, I contacted the Maine Army National Guard and requested their assistance. The weather at the time was scattered clouds, winds were about 35 miles per hour and steady. The Guard informed me at that time their blackhawks were not available and that they were having difficulty locating pilots. As a backup plan, I called Maine Forest Service, talked to Otis Gray at the Old Town hanger who, in turn, referred me to Chief Pilot John Knight. John was flying at the time, but agreed to call me back in about 10 minutes, which he did. I gave an overview of our situation, and he said he would start for the scene in a few minutes. He stopped at the Millinocket airport to pick up Rangers Howes and Chase for assistance when they got to the top of the mountain. After a relatively short travel time, I got a call that the helicopter had turned back due to difficult winds on top of the mountain. I was later told the flight went fairly smooth until they got to the top of the mountain and were down within 20 feet of the ground. It was at this point the pilot had a difficult time and decided to abort the flight. By the time the helicopter had returned to Millinocket, weather conditions had deteriorated and another flight could not be attempted during the daylight hours. John Knight returned to Old Town and advised he would be available to make another try in the morning. We agreed to talk at 6 A.M.

Shortly thereafter Col. Carmichael called me from the Maine Army National Guard. We discussed the situation, and he reinstated the Guard did not have pilots immediately available and that the law prohibited them from picking up bodies as their mission was life saving. We discussed the situation, and I advised him that I was concerned about the rescuers who were going to attempt evacuation. They were on what could be the most dangerous mountain in Maine and its most challenging trail. The Knife Edge drops off on both sides nearly 2,000 feet and ranges in width from three to eight feet, at an elevation of 5,244 feet. He concurred that considering that information he would call the General and ask permission. I told him I would appreciate that. He called back a short time later, confirmed that he had permission to make the evacuation and to assist us in getting the rescuers off the mountain as soon as weather conditions permitted. He agreed we would talk at 6 A.M.

At this time I immediately gave full attention to conditions on the mountain and our staff of volunteers who were exposed to those conditions. We had called the Medical Examiner's office early on after it had been determined that the victim had expired, and they had given permission to evacuate. Now I made another call to the office explaining the location of the victim, the clouds were covering the mountain, mist had settled in and the temperatures were cold. I was concerned about leaving rescuers in that situation overnight and asked about leaving the body there and returning rescue crews to pick up the following morning. Cindy, the person I was talking to at that office, was most helpful and made the inquiries, called back and advised that unless we had a building or steel box to secure the body, it should not be left unattended.

By this time, Campground Ranger Greg Hamer along with Bob Baribeau and Andy Robideaux were at the scene and had reported to me the difficulties of conditions at that time. I advised Greg that the area must remain secured, and we immediately dispatched Campground Ranger Stewart Guay and Ed Cunningham from Chimney Pond with instructions that Greg Hamer and those at the scene would return to base camp as soon as Stewart arrived. Stewart and Ed arrived and relieved Greg at 9 P.M. and Greg arrived back at Chimney Pond at approximately midnight.

In the meanwhile, Paul Smith and Spencer Fuller a member from his Search and Rescue team in Lincoln were called and on route to relieve Stewart, hopefully, by about 3 A.M. This was subsequently accomplished, although by the time that Paul arrived on the scene, Stewart and party requested permission to remain there until daylight as weather conditions had improved. I granted this request. Due to the possibility that an aerial evacuation could not be made come daylight, I alerted Wilderness Rescue Team and arranged transportation for them to fly from Augusta to Millinocket where we picked them up and took them to the trailhead.

By 11:30 P.M. Lincoln S&R had positioned an additional five rescue personnel at Abol. They consisted of Bob Bean, Verne McMoarn, Andy Edwards, Dan Lebrun and Jason Bean.

By 4:45 A.M. I received a radio call from Stewart Guay advising that they were ready to start moving the victim from South Peak to Baxter Peak. At 5:30 A.M. on the 26th McMoarn, Edwards, Lebrun and Jason Bean started for South Peak to assist. This team reached Thoreau Spring by 7:30 A.M. The victim had already been flown out and the four-man team was flown out to Caribou Pit. Prior to 6 A.M. I received a call from John Knight, and he was preparing to depart Old town in the MFS Huey helicopter. He agreed to stop at Millinocket airport and pick up Rangers Howes and Kenney. By 6 A.M. the Maine Army National Guard dispatcher called and advised that the Guard was dispatching a Huey helicopter to assist us in the evacuation of the victim and rescuers. By this time, we had 21 people that had been exposed to above timberline conditions for periods of time extending from early morning hours and throughout the night. It was important that we could move this mission along as safely and quickly as possible in order to provide relief to those individuals. And at about this time, I issued an emergency

alert (see attached) which had resulted in closure of the plateau trails between South Peak, Baxter Peak and Thoreau Spring which was to be the landing zone. Ranger Chase met the Guard helicopter in Millinocket and was assigned the duty of securing the landing zone at Thoreau Spring and preventing any hikers that may have climbed from getting close to the chopper. Rangers Howes and Kenney were given the same assignment when the Forestry chopper landed as well as securing the evacuation route from curious hikers. By 8 A.M. the evacuation of the victim and rescuers that needed to be airlifted was complete. Food and refreshment had been delivered to the top of the mountain to those who were remaining and needed to descend via the Saddle Trail.

During the next couple of hours, I worked with the undertaker and Medical Examiner taking care of necessary details. This included contacting the family and giving them a status report, answering their questions and referring them to the funeral director for further arrangements. It is unknown at this time whether an autopsy will be requested or not. It is my understanding that the family recommendation on that matter will be a deciding issue.

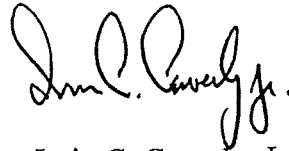
Meanwhile I am pleased to report that volunteers from Search and Rescue teams met the lady with the sprained ankle on the Hunt Trail and successfully assisted her off the mountain. We followed up the attempt to locate and found that the party would be arriving at Kidney Pond the following day. I returned the call to the inquirers and they asked that we leave a message that there had been a death in the family and they needed to call home immediately. This was accomplished.

In closing, I would comment that during any accident of this type there are many many people that contribute to a successful operation. I would estimate that in this 20-hour period between 50 and 75 individuals fulfilled this important role and successfully responded to evacuating the victim and assuring safety among those who were on the front line. For those services I am truly grateful. A special recognition and thanks to mountain patrol member Cassie Wyss, to Campground Ranger Greg Hamer and members of Mahoosuc S&R Brendan Bernard, Bob Baribeau, Andy Robideaux and Lauren Head, Campground Ranger Stewart Guay and Ed Cummingham, Paul Smith, Spencer Fuller of Lincoln S&R, Wilderness Rescue Team members Ron Lessard and Mary Fox, to Mary Ellen Bell who worked diligently through the day to assist as well as carrying out the routine functions of the reservation office and then returning in the evening as a response to a call-in, to Tom Chase who spent the entire night with this officer running such errands as picking up food, meeting aircraft and assuring that other details were fulfilled and to Jan Caverly who also spent the night assisting wherever she could.

Also a special thanks to John Knight at MFS for his tremendous support and response in flight as well as arranging fuel services for the MFS and National Guard helicopters. And thanks to Col. Carmichael for follow-up response to our call. The mission that each agency provided assured a quick and safe evacuation on July 26.

Although we hope there will be no further incidents, history, the law of averages and volumes of 50,000 people climbing our mountains each year dictate that there will be, but there is much comfort in the fact that our staff, volunteers and support units will meet the challenge and do the job.

Respectfully submitted,



Irvin C. Caverly, Jr.
Director
Baxter State Park

ICC:rm

Encl.

cc: BSP Advisory
BSP Admin.
Col. Rob Carmichael
Chief Pilot John Knight
Lincoln S&R
Mahoosuc S&R
Wilderness S&R
Robert Howes
Charlie Kenney
Tom Chase
Trail Crew
Mary Ellen Bell
Stewart Guay
Greg Hamer

NOTE: Detailed information such as radio logs, Medical Examiner's report and follow-up correspondence will be maintained in files at Park Headquarters as received. For further information on these subjects, please contact me.



VI NEW CONSTRUCTION

1. Handicap friendly toilets were pre-fabricated at the Millinocket Support Services and 5 new 1000gal. vaults were installed at Togue Pd. day-use area, Rum Brook day-use area, Foster Field day-use area Nesowadnehunk Field day-use area, Nesowadnehunk Field campground, Togue Pond gate area and Matagamon gate. Vault tops with handicap building modifications were installed at Abol day-use, Katahdin Stream day-use, Daicey Pond day-use, Kidney Pond day-use, and Trout Brook tentsite #25.
2. Two new 2-sided lean-tos were hauled in by snowmobile to Chimney Pond #9 replacement, and to Pogy Pond replacement and were constructed by rangers during the summer season.
3. The lakeshore at South Branch Pond has witnessed many improvements both in soil erosion controls and screening between sites by the addition of several hundred trees and shrubs.
4. A single hole 500gal. vault was installed at Trout Brook Park ranger facility, and a new top was installed near tentsite #35 at South Branch.
5. A picnic shelter was constructed in the day-use area at Trout Brook farm.
6. A frost-wall foundation hole was dug at the Directors residence in Millinocket for a new garage. The foundation was back-filled and driveway graveled and leveled. The building work was contracted.
7. The frost-wall foundation at Abol Field for a new housing complex for gate attendants and others was backfilled and graded so contractor could construct building.

VII SPECIAL ACTIVITIES

1. The ongoing process of updating boundary and game preserve lines continues with approximately 3 miles being done starting at the Northwest corner of the Park heading east along the north line. Heavy December snows made it difficult walking through young fir and spruce.
2. The bush-hog used for roadside mowing was rebuilt during the winter to be ready for the 98 seasons.
3. The heavy sleet and ice storms in January resulted in all the buildings in the Millinocket complex having snow and ice manually removed, and many buildings in the Park not built for heavy loads were shoveled.
4. Unregistered watercraft continued to be removed from the remote areas of the Park if they had been in violation of Park policy or were determined to be unsafe. A canoe was removed from Fowler Ponds and a boat from Long Pond, along with ten bags of trash.
5. The back trail to Abol bridge was maintained for cross-country ski or snowshoe traffic, both for day-use and camper use.
6. All backcountry campgrounds were resupplied with their basic requisitions, propane and firewood and empty cylinders and trash were brought out.

7. Building materials were hauled to Pogy Pond by snowsled including shingles, 2-sided cedar logs, and lumber for the floor and roof, and purlings. The shingles on the old lean-to were removed to South Branch Pond and the old logs were cut up for firewood.
8. Constructed a fire pan to replace the fireplace at Webster Lake.
9. Building material was hauled to Chimney Pond by snowsled as a replacement for #9 lean-to. Materials included shingles, 2-sided cedar logs, lumber for the floor and roof and purlings.
10. Repair material was hauled to Burnt Mountain Tower by snowsled to be used during the summer months.
11. Firewood for winter camper and administrative use was moved from Roaring Brook to Chimney Pond.
12. The interior structure of the Trout Brook camp was jacked and leveled, the old cupboards removed, and a new ceiling was installed.
13. A 310 bulldozer borrowed from Maine Forest Service was used to remove snow from the road system at Togue to Daicey and Kidney Ponds (6" to 1') and from Matagamon Lake to South Branch (1' to 3').
14. The gate located between the garage and office complex in Millinocket was relocated nearer to the pole barn due to drainage.
15. Lumber cut from the S.F.M.A. was piled in to the lumber storage shed in Millinocket for future use.
16. Two culverts were installed on the South Branch Pond road and one was placed on the Park tote road near Trout Brook site #16 while a cedar wood culvert was installed on the road to the group area.
17. The day-use area in Millinocket received its annual spring cleaning and have picnic tables were replaced by.
18. The road behind Abol Bridge used to access the lands recently purchased by the Park was closed off and drainage ditches were installed where appropriate. damaged culverts were removed.
19. Removed about 100 poplar, white birch and spruce from the west side of Nesowadnehunk pit so that DOT crew would have more room to screen about 6000 yards of surface material.
20. Culverts plugged by beaver continued to be a problem and time was spent removing debris to allow proper drainage
21. Using the farm tractor and bush-hog staff completed roadside mowing between Nesowadnehunk Field and Matagamon gate and some areas at Nesowadnehunk Field and Trout Brook.
22. Campgrounds reviewed the new fireplace specifications agreed to by BSP and the Maine Forest Service and initiated areas to be in compliance.
23. The Park continued to make some areas handicap accessible by installing either 1000gal. vaults or replacing the tops and modifying the building to achieve the purpose of having at least one accessible toilet in each campground area.
24. Restoration work was implemented in the day-use area of South Branch Ponds to prevent erosion and several trees were planted between sites to extend as much privacy as possible.

25. Waste composting continues at both Chimney and Russell Ponds is a thankless, but necessary part of the Rangers' work.
26. For the first time in years lightning struck at the CR1 facility at Nesowadnehunk field setting fire to the base sills, but quick action by several rangers prevented serious structural damage.
27. The woodshed at South Branch was jacked, leveled and the floor redecked. The old gas shed was dismantled.
28. Preparation work began for the lean-to replacement at Little East, as the old one was moved 12' to allow a new one to be built during the winter. The base logs are in place and the 2-sided 6" logs are pre-cut and waiting at Trout Brook to be transported.
29. An exploratory trip was undertaken by the Park Director, Naturalist, and Trout Brook Park Ranger to look at possible trail and/or lean-to in the Frost Pond area.
30. Weather worn siding was replaced on the south side of the CR1 at Roaring Brook.
31. The shop floor at Chimney Pond was reinforced to accommodate firewood storage.
32. The subdeck on the Kidney Pond bridge was removed and a new one installed along with new treads.
33. Cleared out, blazed and painted approximately 11 miles of boundary. (1 mile east of Roaring Brook road, 1 mile east of top of Abol hill, 6 miles east of Brailey Brook, 3 miles from southern shore of Matagamon to approximately 1/2 mile south of corner post on top of Billfish Mountain.
34. Unloaded 8000 feet of tongue and groove pine at Abol Field to be used during the winter/spring of 1999.
35. Corner posts were installed on Park boundaries at camp Phoenix and south of Nesowadnehunk Stream on the east side of the stream.
36. Burned debris at all wood disposal areas at Telos, Nesowadnehunk pit and Rum Mountain.
37. Periodic review of winter rules and regulations with BSP Advisory and winter use personnel took place between May and November 1998 (5 meetings).
38. Baxter Park personnel assisted IF&W Fishery personnel by providing housing at Togue Pond on March 11-13, 1998 for a Splake inventory at Lower Togue Pond.
39. The Chief Ranger attended Maine Search and Rescue (MASAR) meetings at Sidney, Maine on February 1, June 7 and December 12, 1998.
40. BSP personnel conducted a S&R critique of the January 26, 1998 Steve Cothalis incident.
41. Park personnel assisted a film crew by hauling the crew and equipment to Abol Campground on February 16, 1998.
42. The Chief Ranger participated in the Unity College Career Day program at Unity, ME on February 18, 1998.
43. Various Park personnel assisted Huey Coleman and filming crew at different locations during the 1998 season.
44. The Chief Ranger had various speaking engagements throughout the year. These include:
3/7/98 – Trout Unlimited Banquet, Brewer, ME
4/9/98 – Hichborn School, Howland, ME

- 4/18/98 – Maine Bowhunters Association Annual Banquet, Portland, ME
- 8/26/98 – Daicey Pond Talk - Baxter State Park
- 11/6/98 – Old Crow Indian Band annual supper, Wilton, ME
- 12/4/98 – Hanington Bros. Annual Christmas banquet, Houlton, ME
- 45. Park personnel assisted in the annual loon count for 1998.
- 46. Park personnel assisted in the End of Trail Days program for Appalachian Trail hikers in September 1998. BSP Trail Supervisor Lester Kenway was given special recognition for services rendered on the Appalachian Trail.

VIII LAW ENFORCEMENT

Baxter State Park continues to maintain a low profile law enforcement program with emphasis on education and information. Most violations are centered on illegal camping, illegal fires, fish and wildlife violations and parking infractions. The use of a vehicle-restraining device was utilized this camping season.

Law enforcement activities in 1998 included:

Prosecutions	-	17
Evictions	-	2
Written warnings	-	4
Verbal warnings	-	Too numerous to count
Motor vehicles accident investigations	-	
Vehicles restrained	-	6

SUMMARY OF								COURT OFFICER	
CRIMINAL CASES									
1998								DATE	
								*P-Physical	
		BAXTER STATE PARK AUTHORITY						S-Summons	
				STATE OF MAINE				B-Bond	
	BLDG					PLACE OF			
OFFICER	NO.	RESPONDENT	DOB	ARREST	OFFENSE	VIOLATION	COLL	DISPOSITION	TIME
M. Browning	60	Lopresti, Joshua	3/30/76		BSP#9	T6R9	50	Guilty	
M. Browning	60	Lopresti, Joshua	3/30/76		BSP#27	T6R9	50	Guilty	
C. Kenny	59	Swanson, Douglas	1/11/46		BSP#4		50	Guilty	
C. Kenny	59	Winther, Timothy	11/29/68		BSP#7		50	Guilty	
R. Howes	53	Duey, Robert	5/31/77		BSP#7	T3R10	50	Guilty	
R. Howes	53	Badders, Jedediah	3/12/80		BSP#8	T3R10	50	Guilty	
R. Howes	53	Huff, Charlie	4/4/71		BSP#8	T3R10	50	Guilty	
R. Howes	53	McPheters, Paul	12/27/41		BSP#8	T3R10	50	Guilty	
R. Howes	53	Martin, Shawn	7/7/78		BSP#8	T3R10		Dismiss	
M. Browning	60	Larrabee, Michael	11/1/54		BSP#7	T6R10		Dismiss	
M. Browning	60	Bragg, Tracy	5/9/57		BSP#7	T6R10		Dismiss	
M. Browning	60	Hughes, Noel	1/10/57		Title 17A1111-A	T6R10		Dismiss	
M. Browning	60	Phaycock, James	2/17/71		Title 12 70360	T4R10	66	Guilty	
L. Goode	57	Garant, Jarome	5/7/70		BSP#7	T3R9	66	Guilty	
L. Goode	57	Moran, Patrick	2/9/70		BSP#7	T3R9	66	Guilty	
L. Goode	57	Lord, Elisabeth	11/13/71		BSP#7	T3R9	66	Guilty	
L. Goode	57	Brad, Alain	7/2/69		BSP#7	T3R9	66	Guilty	

BAXTER STATE PARK COURTESY TICKET WARNINGS							
DATE	TICKET#	LOCATION	VEHICLE REG	STATE	NAME	RANGER	VIOLATION
7/25/98	#0151	Abol	2470 CW	ME	Worthly	C.McGinn	Parked in unauthorized area
7/30/98	#0152	Abol Day Use Parking Lot	934 LDW	MA	Rosebush	C.McGinn	Parked in unauthorized area
8/1/98	#0153	Abol Rgr. Camp Parking	CZL 453 N.S.	CAN	Eagles	B. White	Illegal parking before check-in time
8/16/98	#0001	Kidney Pond Camper Lot	9850AD	ME	Chavarie	N.Sleeper	Camper Parking Lot/Canoe Launch
8/19/98	#0156	Abol	CAB 996	VT	Drave	D. Chase	Unauthorized Parking Area
8/19/98	#0155	Abol	VU 485S	NJ	Holt	D. Chase	Unauthorized Parking Area
8/22/98	#0351	Perimeter Road	5LU324	NY	Lonin	C.McGinn	Vehicle parked in unauthorized area
8/22/98	#0352	Perimeter Road	RW40HV	MA		M.Martin	Illegal parked vehicle
8/23/98	#0002	Kidney Pond Camps	29587U	ME	Power	N.Sleeper	Unauthorized Parking Area
8/23/98	#0353	Site #23 Kat. Stream	BEK 1533	PA	Kenneth Elliott	M.Martin	Parked in unauthorized area to access Abol Trail
8/23/98	#0301	Daicey Pond	B2J745	NH	Whitney	Williamson	Camper parking lot site
9/6/98	#0201	Marston Trail Parking Lot	9843CV	ME	Butler	B.Curran	BSP Reg.#8 Outside of designated parking lot
9/19/98	#0354	Grassy Trailhead	9433DQ	ME	Vanston	B.White	Vehicle not in its authorized destination
9/19/98	#0202	Marston Trail	68277R	ME	Andrews	B.Curran	BSP Reg.#8 Outside of designated parking lot
9/19/98	#0203	Marston Trail	5976CR	MA	Shugue	B.Curran	BSP Re. #8 illegal parking - designated for Nes.

IX MAINTENANCE

TRAIL REPORT - 1998

Trail Supervisor	-Lester C. Kenway
Trail Crew Leader	-Nik Rogers
Trail Crew Leader	-Ed Cunningham

SCA Resource Assistants:

Matthew Amadon, New Ipswich NH
Ella L. Bredthauer, Georgetown TX
Jaime Brooks, Alna ME
Ji Sun Chong, Baltimore MD
Charis Drummer, Rietberg Germany
Heather M. Horner, Mebane NC
Kemp Houck, Forest VA
Ian Papendick, Reston VA
Adrienne Perry, Cheyenne WY
Scott M. Sarantakis, St. Charles MO
Tim Stretton - Smith, Abingdon England
Jenny Van Orman, Green Valley IL
Cassie Wyss, Cincinnati OH

SCA Conservation Associates:

Jaime Brooks, Alna ME
Meg Ounsworth, Philadelphia PA
Evan Ramsey, Pisgah Forest NC
Holly Shepley, Brunswick OH

Trail Supervisor work by categories:

Field Work:	965 Hrs.	60%
Office:	339 Hrs.	20%
<u>Support Services:</u>	<u>327 Hrs.</u>	<u>20%</u>
Total	1269 Hrs.	100%

Hiking Miles = 204

Vehicle Use: Service Truck: 5953 Mi.
Chevy Van: 3165 Mi.
Suburban: 3425 Mi.

TOTAL HOURS SPENT ON TRAIL WORK - 81 VOLUNTEERS IN 1998

Trail Supervisor	609	
Trail Crew Leader (NR)	24	
Trail Crew Leader (EC)	275	
SCA Resource Assistants	3384	
SCA Conservation Associates		1301
AMC Bangor Area	63	
AMC Service Trips	560	
PATH	337	
<u>Individuals</u>	<u>988</u>	
Total	7541	

DIVISION OF TRAIL CREW LABOR ACCORDING TO CATEGORIES:

Type of work	% of crew time
Alpine Restoration	4%
Bog Bridges	10%
Bridge Construction	30%
Clearing Blowdowns	5%
Clearing Brush	12%
Clearing Waterbars	3%
Erosion Control	26%
New Trail Construction	7%
Painting Blazes	1%
Trail Signs	2%
	100%

COMPARISON OF 1997 TO 1998 REGULAR MAINTENANCE EFFORT:

Task	1997	1998	Change
Trail Inspected	75.5 Mi.	43.5 Mi.	-42%
Blowdowns cleared	152.5 Mi.	98.2 Mi.	-36%
Brush cleared	14.8 Mi.	22.9 Mi.	+55%
Blazes painted	5.1 Mi.	3.7 Mi.	-27%
Waterbars cleared	236	246	+ 4%

NEW TRAIL PROJECTS

1. Abol Pond Trail: This trail was cleared in late May to afford hikers access to the West Branch Lands via the Abol Beach Parking area. The trail is 1.7 miles long and utilizes an old logging road over much of its length. A temporary bridge was provided for the season. A tentative location for a permanent bridge has been located a short ways upstream from this crossing.
2. Rum-Round Ponds Ski Trail: A route for this ski trail connector was located and approved before Thanksgiving. Work proceeded intermittently during December according to availability of volunteers. As of December 31st about 1 mile of the route had been cleared. Work will continue during January to make the trail passable for skiers.
3. OJI Trail Head: The beginning of the OJI trail was relocated about 300 ft. so that it now begins at the parking area at Foster Field.

BRIDGE PROJECTS

1. Appalachian Trail, Abol Stream Crossing: A pedestrian/ snowsled bridge was constructed across Abol Stream using Three 55 ft. Steel I-beams and natural cedar decking. The bridge has a handicap friendly design with gradual ramps on each end.
2. Appalachian Trail, Katahdin Stream Crossing: A glue-laminated bridge was installed across this stream crossing. Due to irregular terrain, a stone retaining wall was built on bank to hold the bridge, and a traditional cedar crib was built on the other. The 38-foot long beams were assembled on site using pipe staging and epoxy. The greatest challenge of the project was to bring the materials to the site. Over 21,000 pounds of materials were hand carried or boated/carried up to 1/2 mile to the bridge location by SCA and AMC volunteers. The finished bridge is 82 feet long including the ramps.
3. Appalachian Trail, Nesowadnehunk Stream branch crossings: Two single plank bridges were installed at two crossings of the side streams of the Nesowadnehunk, located 2 and 3 miles downstream from Daicey Pond Campground. The upper bridge is 16 feet long, is two planks thick, and the lower bridge is 24 feet long, with 3 planks. The planks are cabled to sturdy trees upstream, and the base logs are firmly bolted to boulders.
4. Abol Pond Ski Trail: The old ski trail bridge, built by YCC in the late '70's was removed with the help of a crew from Maine Bound.

BOG BRIDGE PROJECTS

1. Wassataquoik Lake Trail: 450 feet of bog bridging was installed west of Center Pond. There is about 1600 feet of bog bridging still to be installed in this area.
2. Sentinel Trail: 340 feet of bog bridging was installed in two locations along the trail between Lily Pad Landing and York's landing.
3. Cranberry Pond Nature Trail: 160 feet of bog bridging was installed on the new side trail to Cranberry Pond. The bridging will serve to protect the Pitcher Plants in the area.

TREADWAY PROJECTS

1. Chimney Pond Trail: 28 rock steps and 1 rock waterbar were installed above Pamola Brook to replace rotten log structures that were built in the mid 1970's.
2. Hunt Trail: 40 rock steps and 1 rock waterbar were installed about 1/4 mile above Katahdin Falls. Enough rock has been collected to build about 25 more steps.

3. Little Abol Falls Trail: 70 feet of drainage ditch was re-dug where water was flowing up and onto the trail.
4. Saddle Trail: 29 rock steps and 300 square feet of rip rap were built below the upper Jct. with the Cathedral Trail.
5. South Turner Mt. Trail: 20 rock steps and 1 rock waterbar were built on the lower portion of this trail. 80 feet of drainage ditch and 2 cross drains were dug near the beginning of the trail to dry out the footpath in a wet area.

Notes:

1. The total amount of hours dedicated to trail work decreased by 10% in 1998. The loss of the Sierra Club Service trip, along with one less AMC service trip, combined with the loss of Nik Rogers due to a foot injury, caused this decline in numbers.
2. Meg Ounsworth, former Resource Assistant, who returned to serve as a Conservation Associate should be commended for a fine job. She did a great deal to help our operation run smoothly.
3. Although the Trail Crew enjoyed working on the new trail and bridge construction projects, many regular maintenance projects have been delayed until 1999 (See tables on page 2.) Fortunately it was a year with few blowdowns, and most trails were in a reasonable condition. Hopefully, the crew will be able to dedicate a solid amount of time to this work next season.

Respectfully Submitted,

Lester C. Kenway
Trail Supervisor

1998 BAXTER STATE PARK TRAIL MAINTENANCE SUMMARY

TRAIL NAME	MILEAGE	REGION	INSPECTED (MILES)	BLOWDOWNS CLEARED (MI)	BRUSH CLEARED (MI)	BLAZES PAINTED (MI)	WATERBARS CLEARED (NO)
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ABOL	2.8	SW	0.5		0.1		66
ABOL POND	1.7	SW	1.7	1.7	1.7	1.7	
ABOL POND SKI TRAIL	3.0	SW	2.0		4.0		
APPALACHIAN	5.1	SW	3.0	5.1			
APPALACHIAN (W BRANCH)	4.1	SW	4.1	4.1	3.0		
BARRELL RIDGE	0.3	N					
BOODY BROOK	1.0	N					
BURNT MT.	1.3	N					
CATHEDRAL	1.5	SE					
CATHEDRAL CUT-OFF	0.2	SE					
CELIA & JACKSON PONDS	1.3	SW					
CENTER RIDGE	2.1	N					
CHIMNEY POND	3.3	SE	3.3				100
CRANBERRY POND NATURE TR	1.4	SW	1.4	1.4	1.4		
DAICEY POND NATURE	0.7	SW	0.4				
DOUBLETOP MT.	7.9	SW	0.7		1.0		
DRAPER POND	0.2	SW					
DUDLEY	1.3	SE					
DWELLY POND TRAIL	3.0	NW					
FIVE PONDS	6.3	N	4.5	6.3			
FOSS & KNOWLTON SKI TRAIL	3.5	SW					
FOWLER BROOK	1.3	N	1.3	1.3			
FREEZEOUT	15.4	N		15.4			
GRAND FALLS	2.7	C					
GRASSY POND	1.3	SW	0.6				
HAMLIN PEAK CUT-OFF	0.2	SE					
HAMLIN RIDGE	1.5	SE					
HELON TAYLOR	3.2	SE			0.5		31
HORSE MT.	1.4	N					
HOWE BROOK	2.0	N					
HUNT	5.2	SW	4.2	3.0			
KIDNEY POND OUTLET	1.8	SW	0.3	1.8			
KNIFE EDGE	1.1	SE					
LEDGE FALLS	1.4	C					
LILY PAD POND	0.4	SW					
LITTLE ABOL FALLS	0.8	SW	0.7		0.1		6

LITTLE BEAVER POND	0.7	SW					
LITTLE ROCKY POND PORTAG	0.1	SW					
LITTLE ROCKY POND	0.4	SW					
LOOKOUT	1.3	C					
LOST POND	1.0	SW			0.2		
LOWER FOWLER POND	0.9	N	0.9			1.4	26
MARSTON	3.8	SW	2.0	3.0			
MIDDLE FOWLER POND	5.5	N		1.8			
MT. COE	3.1	SW			0.3		
NORTH BASIN	1.2	SE					
NORTH BASIN CUT-OFF	0.7	SE			0.7		
NORTH PEAKS	5.7	C		4.7	0.2		
NORTH TRAVELER	2.7	N					
NORTHWEST BASIN	8.5	C		6.0	1.1		4
OJI LINK	0.5	SW					
OJI NORTH SLIDE	2.7	SW					
OJI SOUTH SLIDE	2.5	SW	0.2				
POGY NOTCH	9.6	C		6.0			
POLLY POND	0.9	SW					
ROARING BROOK NATURE TR.	0.6					0.6	
ROCKY POND	0.6	SW	0.6				
RUM-ROUND PONDS TRAIL	1.7	SW	1.7		0.9		
RUSSELL POND	7.1	SE	3.0	7.2	1.0		
SADDLE	2.2	SE	2.2				
SANDY STREAM POND	1.4	SE	1.4		1.4		
SENTINEL LINK	0.5	SW	0.5	0.5			
SENTINEL LOOP	0.6	SW					
SENTINEL MT.	3.2	SW	1.2		1.0		
SLAUGHTER POND	0.9	SW	0.7		2.2		
SOUTH BRANCH FALLS	0.5	N					
SOUTH BRANCH MT.	4.5	N					
SOUTH BROTHER	0.2	SW					
SOUTH TURNER MT.	1.3	SE	0.4		1.3		13
THE OWL	2.2	SW		2.2	0.5		
TROUT BROOK MT.	2.3	N					
WADLEIGH BROOK	10.5	N		10.5			
WASSATAQUOIK LAKE	14.3	C		13.2			
WASSATAQUOIK STREAM	3.9	C		3.0			
WINDEY PITCH POND	1.0	SW			0.3		
TOTALS	203.0		43.5	98.2	22.9	3.7	246

1998 TRAIL VOLUNTEERS

AMC BANGOR AREA

Beth Cuddy	BANAMC
Shirly Ellis	BANAMC
Vickie Bennett	BANAMC
Lindsay Bennett	BANAMC
Diane McKeen	BANAMC
Alana McKeen	BANAMC
Don Vickery	BANAMC
Jane Shields	BANAMC

AMC SERVICE TRIPS

Tim Levesque	Selburne, NH 03581	AMC
Belcher Stanley	Raynham, MA 02768	AMC
Joseph Miller	Dracut, MA 01826	AMC
Jim Tracey	South Portland, ME 04106	AMC
Jenn Manzella	Dorchester, MA 02125	AMC
Dan Kirby	Milton, MA 02186	AMC
Jennifer Mellen	Oxbridge, MA 01569	AMC
Joe Saetta	Bayport, NY 11705	AMC
Doug Kneale	Cotuit, MA 01612	AMC
Daniel Pierce	Paxton, MA 01612	AMC
Michael Debelis	Merrimack, NH 03054	AMC
Carol Blum	New York, NY 10001	AMC

PATH

Margaret M. Coleman	Brewer, ME 04412	PATH
Julie Hagle	Ellsworth, ME 04605	PATH
Jim Kadin	Ellsworth, ME 04605	PATH
Mary Knowlton	Orono, ME 04473	PATH
Cheryl Hathaway	Bangor, ME 04401	PATH
Dave Gilbert	Herman, ME 04401	PATH
Marjorie Stratton	Hampden, ME 04444	PATH
Gerilyn Bosse	Old Town, ME 04468	PATH
Carolyn LaBossiere		PATH
Debra Perro		PATH

INDIVIDUALS

Charles S. Burwell	Dixmont, ME 04932
Elsa J. Sanborn	Bangor, ME 04402
Frank Trautmann	Rockport, ME 04856
Richard Aspinall	Durham, ME 04222
Ricky J. Daniel	Freeport, ME 04032
Daniel D. Dwinal	Brunswick, ME 04011
Deborah L. Flagg	Brunswick, ME 04011

Francis Hanley	Gardiner, ME 04345
Tina Madore	Randolf, ME 04346
Sue Bodyke	Milford, ME 04401
John Minot	Milford, ME 04461
John T. Horn	Lyme, NH 03768
Richard Bouchard	Washington, ME 04574
Scott C. Kady	Montville, ME 04941
Thomas W. Bradbury	West Paris, ME 04289
Scott M. Pfeiffer	Unity, ME 04988
Norman A. Putnam	Bryant Pond, ME 04219
Stacie S. smith	Portland, ME 04102
Thomas E. Shoesmith	New York, NY 10014
Susan J. Burnell	Saco, ME 04072
James Burnell	Saco, ME 04072
Paul Bortz	Shapleigh, ME 04076
Cherrie Bortz	Shapleigh, ME 04076
Steve Jones	Shapleigh, ME 04076
Peter E. Crooker	Damariscotta, ME 04543
Mary A. Schmidt	Chelmsford, MA 01824
Harry Cunningham	Orono, ME 04473
John Neff & Co.	
Rick Ste.Croix	
Paul Richard	
Francine Richard	
Mike Destano	
Mike Lavane	

<p align="center">1997 ANNUAL REPORT OF PARK CARPENTER ALBERT RICKARDS ADAM STANLEY, ASSISTANT CARPENTER</p>

MAINTENANCE AND CONSTRUCTION PROJECTS

1. Installed new Pergo laminate flooring in Supply's office and restrained all baseboard trim.
2. Worked on construction of five handicap accessible privies.
3. Cut hole through wall in Forester's office and installed new air conditioner.
4. Reframed opening and installed larger air conditioner in conference room
5. Painted interior ceilings and walls of crew camp at Togue Pond; cleaned out
6. Constructed two single-pit privies for Daicey Pond and installed.
7. Constructed new handicap accessible privy at Foster Field.
8. Built new handicap accessible privy at Nesowadnehunk day use area.
9. Tore down two outhouses at Togue Pond and hauled to dump area.
10. Installed new skylight in DOT camp at Abol Field.
11. Installed new shiplap siding on south side of Ranger's camp at Roaring Brook.

12. Tarpapered and shingled roof on year-round camp at Nesowadnehunk Field after removing shingles.
13. Installed new handicap railing on outhouse at Administrative camp at Togue Pond.
14. Shingled Trapper camp at Togue Pond and replaced rotten boards.
15. Constructed two handicap accessible privies for Rum Brook and at Togue Pond.
16. Installed new Pergo floor in Director's apartment livingroom and installed new baseboard trim.
17. Installed air conditioner covers on all air conditioners at headquarters for winter.
18. Painted 1"x12"x12' board, installed to have access in reservation office to plumbing.
19. Helped Rangers Bruce White and Brendan Curran shingle roof of crew camp at Abol.
20. Jacked and leveled Ranger's camp at Russell Pond.
21. Took out old work center in Account Clerk's office and installed new work center.
22. Worked on rebuilding Kidney Pond bridge. Replaced all planking with new planking, hauled dump truck load of hemlock to Kidney Pond.
23. Took down wall in Supply's garage. (Center partition removed)
24. Cleaned out pole barn and hauled junk to dump.
25. Tore down wall in pole barn and saved plywood.
26. Installed new gutter and down spout on Director's garage.
27. Installed plywood over windows at information center at Togue Pond.
28. Helped Ranger Dan Randall close Russell Pond for the season; took out bridges, drained water, etc.
29. Installed new support post and built laminated carrying beams for new sills at Russell Pond Ranger's camp.
30. Installed 2 storm doors at Togue pond information.
31. Built new handicap accessible privy at Foster Field.
32. Installed new handicap railing on privy at Slide Dam.
33. Loaded cedar boards onto dump truck, utility trailer and pickup and hauled to camp at Abol.
34. Installed outhouse back on cement vault at Abol, Katahdin Stream, Kidney Pond and Daicey Pond.
35. Installed new covers on cement vaults at Abol, Katahdin Stream, Kidney Pond and Daicey Pond.
36. Built new handicap accessible privy at Katahdin Stream Campground.
37. Converted privy at Abol day use to handicap accessible.
38. Made reservations for campers at Katahdin Stream and gave-out information on camping, hiking and fishing.
39. Caulked log siding on roaring Brook Ranger's camp.
40. Cut a hole through wall and reframed for new air conditioner in Jean Howes' office.
41. Installed new air conditioner in Jean Howes' office.
42. Reframed opening and installed larger air conditioner in conference room.
43. Completed weekly and monthly reports. Also completed annual report.

80. Installed all trim boards around all air conditioners.
81. Took out large air conditioner in Betts Johnston's office and reframed for smaller unit and installed new air conditioner.
82. Build new handrail for privy at Abol Scout area.
83. Installed fiberglass roofing on outhouse at Togue Pond.
84. Unloaded and stacked boards onto porch at Abol. Estimated materials to finish camp.
85. Cut molding for Clerk Typist's office and installed.
86. Made reservations for campers, gave out information to campers on hiking and camping at Roaring Brook Campground.
87. Bolted outhouse at Katahdin Stream down to cement vault.
88. Installed new risers on privies at Abol, Katahdin Stream, Kidney Pond and Daicey Pond.
89. Moved all furniture back into crew camp at Togue Pond and hooked up gas and planed door to fit.
90. Installed new speaker shelf in conference room.
91. Repaired Betts Johnston's computer stand.
92. Attended annual spring meeting
93. Installed new blinds in Forester, Account Clerk and Business Manager's offices.
94. Painted and installed plywood on Director's snowsled trailer ramps.
95. Installed air conditioner covers on air conditioners at Director's apartment.
96. Helped Mechanic pile firewood in firewood storage shed at garage.
97. Traveled to Nesowadnehunk to get dump truck trailgate, traveled to Togue Pond, loaded snowsled onto trailer and hauled to Millinocket.
98. Installed new sign over supply's garage door and entrance door.
99. Cleaned out garage and hauled junk to dump.
100. Installed new gutter and down spout on Director's garage.
101. Installed extension jambs and window trim around skylight at DOT camp.
102. Installed copper rings in several books to be displayed at Headquarters.
103. Installed new drawer in Account Clerk's office.
104. Built new sign for Clerk Typist's office and stained signs.
105. Assembled new shelving at warehouse.
106. Remodeled steps going into supply's office.
107. Cleaned carpentry shop as needed.
108. Traveled to Sherman Lumber and picked up lumber for various projects.
109. Traveled to Chimney Pond to cover for Stewart Guay.
110. Traveled to SFMA with Forest Technician Mac Browning, estimated materials needed for renovations of solar panel and storage shed.
111. Estimated materials needed for building new generator shed at SFMA facilities.
112. Cleaned out toolbox on Carpenter's truck and repaired hinges.
113. Built book storage shelf for supply at warehouse.
- 114.** Repaired, sharpened and maintained hand tools, power tools and large shop equipment.
- 115.** Cut a wall in half and hinged wall in center for togue Pond winter partition in bunkroom.

44. Shoveled snow and ice off roof at Headquarters building as needed.
45. Answered telephones in reservation office and mailed out information packets during first week of January, handled 147 calls on opening day.
46. Removed kitchen cabinets, sink and counter top in warehouse.
47. Installed new paneling on walls of Supply's office.
48. Installed all ceiling, window, corner and baseboard molding at warehouse.
49. Cleaned snow and ice off porch at Director's apartment, garage and carpentry shop.
50. Helped Ranger Bernard Crabtree haul several loads of logs and lumber from Basin Pond to Chimney Pond for new lean-tos.
51. Repaired Director's garage door opener.
52. Repaired leak in roof at Headquarters office.
53. Traveled to Chimney Pond; estimated repair materials needed for insulating project for upstairs of Ranger camp.
54. Worked on sign construction.
55. Helped Park Ranger Bob Howes get Administration camp ready for season.
56. Took plywood off windows at information center.
57. Unloaded trailer truck load of lumber and piled in pole barn.
58. Chief Ranger and I built a footbridge over Abol Stream to connect new trail to new West Branch lands.
59. Took air conditioner covers off Headquarters building, warehouse and Director's apartment in spring.
60. Replaced toilet and broken water lines at Ranger's camp at Nesowadnehunk Field.
61. Picked up supplies at hardware store as needed.
62. Enlarged office door opening at Kidney Pond Campground.
63. Rebuilt door and installed in office at Kidney Pond.
64. Picked up at hardware 100 bricks and tile and hauled to Nesowadnehunk Field to rebuild chimney at Ranger's camp.
65. Constructed shelf in conference room.
66. Cut hole through wall and installed air conditioner in Business Manager's office.
67. Plowed, shoveled and blew snow as needed.
68. Installed new desk drawer in Business Manager's office.
69. Planed lumber in carpentry shop.
70. Cleaned out tool room and cleaned 69 truck as needed.
71. Installed coat rack in Chief Ranger's office and Account Clerk's office.
72. Repaired several broken map drawers for Chief Ranger's office.
73. Built shelves for janitor's closet and cleaned out closet.
74. Repaired podium in conference room and built stand.
75. Installed new projector screen in conference room.
76. Unfastened day use privy at Daicey Pond from base and prepared it to be lifted off base.
77. Unfastened day use privy from cement vault at Kidney Pond, Katahdin Stream and Abol.
78. Installed new handrails on outhouse at Katahdin Stream.
79. Replaced support post at Togue gatehouse and repaired screen door.

116. Worked on small odds and ends projects at Headquarters as requested by Director, Business Manager, Chief Ranger (too many to list).

<p style="text-align: center;">BAXTER STATE PARK ANNUAL REPORT MAINTENANCE DIVISION – AUTOMOTIVE MECHANIC Timothy Sides</p>

Month/Year	January-December 1998
Person Reporting	Timothy C. Sides
Date Submitted	January 12, 1999

	<u>Hours Worked</u>
Shop	1,204
Office	70
Field	227
Meetings	<u>18</u>
	1,519

The Automotive Mechanic does the maintenance on over 100 pieces of equipment. The list includes trucks, snowsleds, tractors and chainsaws. Below is an outline of services performed.

VEHICLE/EQUIPMENT INFORMATION

Battery Replacement/Recharge	No.	7 – new
Body Repair/Painting	No.	31
Brake Repair	No.	8
Canoe/Boat Repair	No.	-
Chain Saw Repair	No.	4
Clutch Repair	No.	1
Electrical Repair	No.	38
Exhaust System Repair	No.	11
Front End Repair	No.	20
Generator Repair	No.	2
Motor Repair (include valves)	No.	-
New Tires installed	No.	20
Outboard Repair	No.	-
Rear End Repair	No.	1
Road calls for Park equipment	No.	6
Snowsled Repair	No.	3
State Vehicle Inspections	No.	29
Tires repaired	No.	14
Tune ups	No.	6

Universal Joint Repair	No.	3
Vehicles Serviced (grease, oil)	No.	118
Waterpump repair	No.	-
Window Replacement	No.	6

The above is a list of equipment-vehicle routine jobs performed by Mechanic. Below is a list of duties performed outside the garage complex.

January

1. Plowed and sanded grounds January 2, 5, 6, 7, 8, 14, 16, and 30.
2. Went to Medway DOT on the 5th to get a load of sand.
3. On the 23rd had Millinocket Foundry replace the center bearing on #9.
4. Shoveled off the Director's garage roof January 30.

February

1. Plowed and sanded grounds on February 6 and 12.
2. Went to Medway DOT on the 12th to get load of salt sand.
3. Helped shovel off the roof at Headquarters on the 2nd and the garage on the 3rd.

March

1. Plowed snow on the 9th, 20th and 23rd.
2. Drove #4-001 to Abol Bridge on the 4th with a load of cedar logs.
3. On the 5th drove #14 to Abol Bridge with a load of cedar and hauled one load of cedar to Roaring Brook.
4. Hauled two loads of cedar with #10 and one with #9 to Abol Bridge on the 6th.
5. Replaced the broken spring on the double sled trailer on the 19th and 20th.
6. On the 31st loaded the Forestry dozer on our trailer.

April

1. Helped unload lumber off Sherman Lumber truck into the pole barn on the 1st.
2. Took off the plow and sander on the 21st.

May

1. Helped unload lumber off Pelletiers' trailer on the 1st.
2. Used the power sweeper on the hot top in front of the garage on the 5th.
3. Performed maintenance on the Headquarters lawn mowers on the 12th.
4. On the 19th had a "road call" at Kidney Pond on 4007.
5. Helped Lance Cooke do radio repairs on the 27th.

June

1. Made two trips to Togue Pond on the 4th to haul fuel trailers (2) to Millinocket.
2. Got #1 ready for trade-in on the 12th, 12th and 15.
3. Had a "road call" at Nesowadnehunk Pit on 4006 on the 16th.
4. On the 25th I had a "road call" at Roaring Brook on #15.
5. Got #1 ready for BSP use on the 26th.

July

1. Worked with 53 on the 22nd cutting and fitting the old truck rack to fit the new truck.
2. On the 27th had a "road call" on the Golden Road at mile 7 on #16.
3. On the 27th had a "road call" on the Golden Road at mile 7 on #16.
4. Mounted a receiver type hitch on #1900 on the 29th.
5. Went to East Millinocket on the 31st with 50 and 61 to look at used one-ton dump truck.

August

1. On the 4th and 5th got new used one-ton dump truck ready for Park use.
2. Got truck #17 ready for the auction on the 20th and 21st.
3. Rewelded the safety chains on the Eager Beaver trailer on the 28th.
4. On the 31st took the four tires and wheels off #17 and put on #23.

September

1. Had a "road call" at Togue Pond on the 8th on #5.
2. Delivered two loads of Stone dust to Togue Pond on the 10th.
3. Went to Abol Field on the 10th to bring back a dumpster to Millinocket for replacement at Headquarters.
4. Hauled gravel for Director's new garage from Goding on the 11th and 14th.
5. Helped 54 cut brush by Director's new garage on the 15th and hauled to compost area.
6. On the 17th took off the wood splitter motor and welded studs on bottom and bolted back on.
7. Sealed the hot top in front of the garage on the 18th and 22nd. Had a "road call" at Mt. Chase on the 28th.

October

1. Mounted and wired two utility lights on the rear bumper of #1 on the 1st.
2. Went to Togue Pond on the 1st with 69 to unload two sleds off the double trailer and bring them back to Millinocket.
3. Went to Fort Kent skidoo on the 2nd to get two new sleds and a 55-gal. Drum of injection oil.
4. Went to the B&A railroad yard in Oakfield on the 6th to pick up scrap steel for Park use.
5. On the 14th drove 4-007 with trailer full of V-match cedar to Abol Crew Camp and unloaded on porch.
6. Had a "road call" at McCarty Field on 4-004 on the 19th.
7. Piled firewood for the garage on the 9th, 15th, 16th, 26th and 27th.

November

1. Finished piling wood for the garage on the 2nd.
2. Cleaned up where the woodpile was and hauled to compost area on the 3rd.
3. Hauled two dump truck loads to compost area on the 16th.
4. Went to Matagamon on the 17th with 54 to drive #4-004 to Millinocket.

5. Loaded and tied down surplus property (boat, canoe, two fuel trailers) on tilting trailer on the 17th.
6. Went to Togue Pond on the 18th and picked up sled for Surplus Property.
7. Drove 4-007 and trailer to Surplus Property in Augusta on the 19th.
8. Cleaned out #2 for a trade-in on the 20th (radio, cell phone, toolbox, steel rack, siren and wigwag).
9. Went to Matagamon on the 23rd with 59 to drive #9 to Millinocket.
10. Mounted and hooked up the sander on the plow truck on the 23rd.
11. Worked with 69 to clean out the pole barn on the 24th and 25th.
12. On the 30th hauled a load of scrap metal to transfer site.

December

1. On the 1st helped 61 set up tables at Headquarters.
2. Welded eight tie-down hooks on the new double snowsled trailer on the 2nd.
3. On the 4th helped deliver pine boards to Abol camp.
4. Went to Medway DOT to get load of sand on the 7th and 31st.
5. Got #2 ready for Park use on the 8th.
6. Plowed and sanded on the 17th, 18th and 30th.

REGION II CAMPGROUND AND PARK RANGER MAINTENANCE REPORT

Robert Howes Park Ranger II, Brendan Curran Park Ranger I (Acting Capacity)

Maintenance involves considerable amount of time. Many projects were accomplished. They include:

1. Boundary clearing and painting Abol Bridge toward Togue Pond – South Line, Logan Ponds area to township corner post.
2. Shoveling ice and snow off camps and buildings; extremely tough year due to ice build-up from ice storms.
3. Changing of seasonal signs, window protector covers.
4. Researched hydropower information for Nesowadnehunk Field.
5. Rebuilt radio-battery charger; dismantled and reinstalled lightning struck meter system at Nesowadnehunk Field.
6. Service and maintained sixteen solar power battery sites.
7. Hauled fuel from Abol Pit service area to Togue Pond (20 hrs.)
8. Investigated lightning struck radio-power system at Nesowadnehunk – severe damage to radio system.
9. Grooming trails to Roaring Brook and Chimney Pond for winter access.
10. Plowing and sanding of Headquarters Complex at Millinocket.
11. Hauling of supplies, lean-to stock from Abol Bridge to Chimney Pond, hauling of wood and propane to Chimney Pond.
12. Clear road systems of blowdowns and debris.

13. Cut up over-length wood at Daicey Pond; repaired broken glass door on wood stove.
14. Transported tractors to various locations throughout Park.
15. Replaced flagpole ropes at Headquarters in Millinocket.
16. Cleaned and maintained fleet of sleds.
17. Assisted in spring cleanup at Millinocket.
18. Assisted with installation of new fuel tank system on Park Ranger Tom Chase's vehicle.
19. Seasonal startup of facilities, water systems.
20. Moved batteries for building upgrade at Coffeelos SFMA living quarters.
21. Installed new converter-battery pack on GE radio at Headquarters.
22. Moved winter-wood trailer from Roaring Brook to Togue Pond.
23. Cleaned bunkroom at Visitor Center at Togue Pond.
24. Repaired radios at various Park locations and in vehicles.
25. Installed new waterpump at Visitor Center at Togue Pond.
26. Complete changeover of equipment, radio, siren, light system, installed new toolboxes, rack on new Park Ranger II truck.
27. Hauled supplies to various locations throughout Park.
28. Hauled road calcium from Winn to Togue Pond and spread.
29. Planned replacement power system for Nesowadnehunk Complex.
30. Transported defective radio equipment to Houlton State Police facility.
31. Troubleshoot 1998 truck-radio interference – Park Ranger II vehicle.
32. Cut, hauled, split, and piled 8 cords wood.
33. Relocated radio in Director's apartment.
34. Assisted grounds work around new garage at Storehouse Complex in Millinocket.
35. Hauled surplus material to Augusta for auction.
36. Assisted with shingling of Park buildings at Nesowadnehunk Field and Abol.
37. Hauled brush to burnpiles at Rum Mt. Service area.
38. Loaded trailer with wood and hauled to Roaring Brook for winter hauling to Chimney Pond.
39. Assisted in seasonal shutdown of facilities water systems.
40. Hauled several yards of gravel to Daicey and Kidney Ponds, Katahdin Stream, Abol and Abol Scout Area to fill in areas of erosion.
41. Hauled rocks and replaced wood bumperlogs with rocks at Togue Beach.
42. Transported old shingles from Chimney Pond to Millinocket Recycle Center.
43. Constructed new trail drag.
44. Repaired roof rakes and aluminum shovels.
45. Assisted with planing lumber (sign material).
46. Plowed Perimeter Road to Daicey and Kidney Ponds in April.
47. Hauled Forestry bulldozer from Old Town to South/North ends of Park and returned to Old Town.
48. Hauled new picnic tables and delivered throughout Park.
49. Reorganized and cleaned out workshop at Nesowadnehunk Stream Ranger Camp.
50. Jacked, leveled, squared lean-tos.
51. Removed hazard trees around buildings.

52. Planned and rebuilt completely plumbing system at Nesowadnehunk Stream Ranger Camp.
53. Made improvements to Nesowadnehunk Stream Ranger Camp.
54. Hauled radio battery to Millinocket Garage for charging purposes.
55. Replaced shower at Nesowadnehunk Stream Ranger Camp.
56. Constructed box to hold Park radio.
57. Constructed walls to surround shower and propane heater at Nesowadnehunk Stream Ranger Camp.
58. Hauled firewood from Togue, Abol service area and McCarty Field to various campgrounds.
59. Constructed plywood box to cover and screen systems to protect waterpump at Togue Pond.
60. Routine cleaning of chimneys and stovepipes.
61. Rebuilt storm windows at Nesowadnehunk Stream Ranger Camp.
62. Hauled gravel to Tamarack Street and spread and graded for garage construction.
63. Cleaned and hauled construction debris from Abol Field Housing Complex.
64. Removed old propane generator from Nesowadnehunk Stream Ranger Camp.
65. Checked and tested fire equipment at campground locations.
66. Scraped and painted floors of Nesowadnehunk Stream Ranger Camp.

KATAHDIN STREAM – CRI Bruce White, CA Christian McGinn

1. Replaced rotted siding on Ranger Camp porch, built roof structure to cover camper firewood.
2. Hauled several loads gravel to build up campground road to provide better drainage.
3. Upgraded outhouses in day-use area and campground for handicap accessibility.
4. Assisted with construction of new outhouse near OJI parking lot (handicap accessible).
5. Upgraded firepits to make fire code compliance.
6. Upgraded bulletin board in day-use area.
7. Placed and checked canoes at Grassy Pond.
8. Put out cross and signage at River Driver Grave.
9. Repaired walkway to Ranger Station.
10. Upgraded gutters to Ranger Station.
11. Insulated waterlines.
12. Stained buildings, picnic tables and shelters.
13. Reshingled several lean-tos.
14. Upgraded cribs at lean-to sites; hauled gravel to sites.
15. Demolished old outhouse behind crew camp.
16. Rebuilt registration box for trailhead.
17. Repaired master locks for Supply Clerk.

ABOL – CRI David Chase, CA Michael Martin
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1. Reshingled crew camp roof, flash and retrimmed skylight.
2. Replaced floors of three lean-tos.
3. Stained several signs and posts.
4. Rebuilt several firepits.
5. Reshingled two lean-tos.
6. Re-routed waterline around new tentsite #17.
7. Built set of bunkbeds for crew camp.
8. Built new doors for shop.

NESOWADNEHUNK FIELD – CRI Mark Varney
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1. Modified outhouse to be attached to vault lid.
2. Upgraded older toilets with better ventilation.
3. Cut brush around bridges, cut brush and stumps along Fuel Depot Road.
4. Rebuilt steps for crew camp.
5. Reorganized woodshed and workshop.
6. Reshingled Park Ranger Camp, several lean-tos, picnic shelters.
7. Insulated waterlines and built boxes to house enclose water line.
8. Improved trailhead for Doubletop with rock steps.
9. Routine cleaning of Perimeter Road of debris and blowdowns.
10. Brushed out Dwelley Pond Trail.

KIDNEY POND – CRI Jodi Tollett-Browning, CRI Neil Sleeper, CRI Joanna Thorpe

1. Cut back overhang on showerhouse, retrimmed, shingled roof.
2. Laid plywood floor in OJI Camp.
3. Replaced and reflashed metal-bestos chimney Cabin #4.
4. Painted ten porch decks of cabins.
5. Rebuilt boat and canoe racks.
6. Bury old cement blocks – replaced with smaller rocks between parking lot and field.
7. Seeded and hayed disturbed areas.
8. Cut, split, hauled wood from Daicey Field (three weeks).
9. Reorganized tools in Pole Barn.
10. Reorganized books in Library.
11. Prepared library for Advisory/Authority meetings.
12. Seasonal shutdown of campground.
13. Shoveled pit toilets.
14. Measured Doubletop/Deer Pond Loop.
15. Repaired chairs.
16. Caulked three chimneys.
17. Constructed support posts for cabins.

18. Installed skid plates on several canoes.
19. Made repairs to cook pit.
20. Pre-planned replacement of library windows.

DAICEY POND – CRI Gabriel Williamson, CRI Marcia Williamson, CRI Joanna Thorpe
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1. Painted-stained cabin floors, decks and outhouse floors.
2. Replaced and stained bumper logs and sign posts.
3. Replaced and repaired railings and posts as needed.
4. Replaced two cabins with new metal-bestos chimneys.
5. Stained and lettered new signs.
6. Inspected outside fire pits and complied with fire code.
7. Replaced windows, doors, screens.
8. Cut, split, hauled wood to replenish woodshed (three weeks).
9. Constructed and replaced propane tank platforms, upgrade propane lights as needed.
10. Readied fire equipment.
11. Readied new outhouse and demolished old toilet.
12. Built new bulletin board.
13. Repaired waterline/replaced footvalve.
14. Cleaned, sharpened, treated shovels, axes, tools.
15. Cut hazard trees and trimmed trees around AT shelters.
16. Reshingled roof at AT shelter.
17. Waterbar maintenance on Daicey Hill.
18. Regraveled pathways to cabins.
19. Completed stove maintenance, removing ashes, etc.
20. Recolor coded handtools.
21. Developed and installed educational materials for Library
22. Constructed winter support posts and beams for cabins.
23. Organized file cabinet for Ranger camp.
24. Upgraded curtain rods/holders in several cabins.
25. Installed plastic mattress covers on boxsprings.
26. Removed old water heater and piping from shower house.
27. Cleaned and organized toolshed.
28. Seasonal shutdown of campground.
29. Shoveled outhouses.
30. Removed metal fencing from Daicey Field.

MATAGAMON GATE – Gatekeepers Dana Miller, Ted Hanson, Thomas Lohnes, Helen Woods (Acting Capacity)
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1. Each spring requires gate personnel to get the water running, clean the floors, walls and ceiling and paint each as needed.

2. The information handouts are unpacked and stacked for easy visibility and use by the visitor.
3. Propane appliances are checked and cleaned and propane delivered regularly.
4. Signs and signposts are stained and lettered.
5. Lawns at the gate and the landing are mowed regularly, fireplaces, toilets are inspected daily and litter is picked up.
6. The boat and motor located behind the gate is inspected daily and water is pumped out as required.
7. Firewood and kindling is cut, split and stacked in the woodshed to accommodate the needs for the year.
8. The ceiling and area around the new skylight was painted white to enhance reflective qualities.
9. Varnished interior on new handicap toilet used by visitors at the gatehouse.
10. The outside of the new toilet was stained and trim painted
11. Painted office porch gray adding sand to floor paint for better traction.
12. Stained toolshed and boathouse.
13. Put three coats of cement sealer on outhouse floors.
14. Put a new storm door on living room entrance.
15. Unhooked water systems and drained water for the season adding non-toxic anti-freeze as needed.
16. Plastic was installed around the base of the building to assist heating the facility during the hunting season.
17. Assist cleaning out the polebarn at Trout Brook.
18. Put together hundreds of information packets that are handed out by Millinocket office personnel during the winter and for special requests.
19. Assisted clearing roads of blowdowns.

<p>TOGUE PONDS – Gatekeepers Diane Frelove, Wendy Roberts, Jen Hall, Chad Marin, Rachel St.Croix (Acting Capacity)</p>
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1. The gate booth was opened up with information arranged to be available to the Park visitor.
2. Toilets were cleaned and stained as needed.
3. A platform corner post was repaired and stained.
4. Filled in and leveled potholes adjacent to the gate area
5. Split and stacked firewood for the gate housing facility.
6. Corrected and stamped map handouts correcting trail relocations.
7. Put information packets together to be handed out during the winter season by Millinocket personnel.
8. Class Day Statistics by month:

	I	II	III	IV
June	5	23		1
July	8	23		
August	14	17		
September	7	23		
October	3	15	3	10
November			all days in November	

9. Parking Lots closed dates:

June

Roaring Brook 20,28
Abol 20,28
Katahdin Stream

July

Roaring Brook 2,3,4,11,14,16,18,19,22-25,27,30,31
Abol 3,4,11,18,19,22,25,27,30
Katahdin Stream 3,11,18,21,25,27,30
Kidney Pond 18,25
Daicey Pond 8,16,21,25,27,30
Ledge Falls 14,15
Marston Trail 18,25
Nesowadnehunk Field 18,25
OJI 25
South Branch Ponds 25

August

Roaring Brook All closed but 11,24,26,30,31
Abol 1-3,5,6,8-10,13-15,17,19-23,29
Katahdin Stream 1-9,12-15,17, 19,20,22,23,27,29
Kidney Pond 1,5,8,13-15,17,19,20,22,29
Daicey Pond 1,2,4-9,12-20,22,23,25,27,29
Marston Trail 1,8,13,15,22
OJI 1,13,22
Ledge Falls 1,8,23
Nesowadnehunk Field 1,8,13
Abol Pond 8

September

Roaring Brook 5,6,12,13,19,20,26
Abol 5,6,12,13,19,20,26
Katahdin Stream 5,6,12,13,19,20,26
Kidney Pond 5,6,12,19,26
Daicey Pond 5,6,19,20,26

Marston Trail	5,6,19,26
OJI	5,6,19,26
Nesowadnehunk Fld.	5,6

October

Roaring Brook	3,4.
Kidney Pond	3
Daicey Pond	3

ROARING BROOK – CRI Stewart Guay, CA Kevin Donnell
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1. Opening the Campground includes hooking up the water systems, cleaning out facilities, resetting picnic tables, cleaning fireplaces, raking sites sorting requisitions.
2. Much time is spent cleaning and scrubbing and airing out the bunkhouse used the previous winter.
3. Stained lean-to #10.
4. Painted the trails yellow on the Katahdin model.
5. Installed 2 new regulator shields on the CR1 facility.
6. Replaced the game sanctuary post near Rum Mt. road.
7. Constructed cupboard/counter for CR1 bathroom.
8. Split and stacked 3 cords of firewood for Chimney Pond firewood supply to be transported during the winter.
9. Made approximately 2 trips a week to the Abol service area to pick up firewood for resale at Roaring Brook.
10. Reviewed and rewrite signage for campground bulletins.
11. Removed blowdowns from the Nature trail and other trails in the immediate vicinity of the campground.
12. Lawn mower, chainsaw and fire pumps were serviced.
13. Stained outhouse, signs and posts and lettered signs
14. Continued restoration process in campground by rocking path edges and planting trees where needed.
15. Cleaned out upper ditch in campground road to allow for proper run-off drainage.
16. Repaired and painted trim in CR1 facility.
17. Pumped out 3 vault toilets in campground to allow room for summer use.
18. Stained new fence by office area.
19. Continually repaired hinges, springs and latches to all outhouse, garage, and facilities as needed.
20. Rebuilt fire rings, trimmed brush and hauled sand to group area at Avalanche Field.
21. Crib/riprapped bank of stream at lean-to #1 at Avalanche Field
22. Scraped and stained workshop and painted trim green.
23. Repaired/replaced hand tools and checked for service.
24. patrolled and cleaned the day-use area of Togue Pond.
25. Scraped and painted trim on CR1 facility.

26. Built new base for propane cylinders for office.
27. Installed 8 bedrails for bunkhouse bunkbeds.
28. Rerouted plumbing on south wall of CR1.
29. Improved/cleaned out ditch along the hill by lean-tos 1-4
30. Improved/cleaned out and extended ditch area by site #24
31. Replaced and stained cedar post of picnic shelter at the Rum Brook day-use area.
32. Opened new handicap toilet at Rum Brook.
33. Shaved and stained graffiti at lean-tos at Avalanche Field
34. Reworked fire ring bases at campsites 3,5,7 and overflow campsites.
35. Removed and hauled away shingles from the old toilet Rum Brook Picnic area.
36. Constructed ridgepole brace for lean-to #4.
37. Scraped and stained bunkhouse facility.
38. Jacked and leveled porch of Crew camp.
39. Assisted with shingling Trapper John camp at Togue Pond.
40. Drained water systems in the fall and prepared the campground facilities and buildings for winter.
41. Hauled and stacked firewood for use by campers during the winter season at the bunkhouse.
42. Hauled gravel for handicap ramps for outhouses.
43. Made last of many passes through the campground picking up litter and checking trees and limbs making sure the area is ready for winter use.

CHIMNEY POND – CRI Greg Hamer, CA Frank Taylor
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1. Spring cleaned facilities lean-tos and privies airing; out the bunkhouse and washing; removed waste from the privies and composting; and collecting litter from areas.
2. Hooked up the water system, unpacked requisitions and sorted for seasonal use; checked over lean-tos and prepared for summer use.
3. Stacked firewood brought up from Roaring Brook the previous winter.
4. Checked over materials brought up for a new log lean-to to be built during the summer (#9 replacement) and prepared the site for project.
5. Repaired screens on the bunkhouse and main camp and office.
6. Assisted with the new log lean-to built at Pogy Pond to replace the old log lean-to. (Materials hauled in during the previous winter.)
7. Continued restoration work in campground graveling pathways in the campground.
8. Cleared blowdowns from trails in the Chimney Pond area.
9. Cleared blowdowns to Davis Pond and cleaned lean-to area and toilets.
10. Replaced staircase in CR1 facility.
11. Removed the old lean-to #9 that was replaced with a new log lean-to.
12. Brushed out high use areas of paths in campground and along the Chimney Pond trail to Dry Pond.
13. Stained double outhouse and fence by the office.
14. Removed debris from drainage ditches in campground.

15. Checked over and tightened "bear cable line" used to hoist packs out of reach of the inquisitive creatures.
16. Assisted trail crew with trail work on the Saddle and Cathedral Trails.
17. Constructed benches for lean-tos 4 and 9.
18. Placed rocks along shore of Chimney Pond.
19. Checked and cleaned crew camp facilities after each use
20. Checked and serviced chainsaw and fire pump and packed hose in canvas bags.
21. Removed carvings from lean-tos and stained as needed.
22. Cleaned water bars on trails as required.
23. Checked over rescue supplies, food and gear.
24. Installed new signs and posts and stained and lettered same.
25. Brushed in the winter trail to Chimney so summer hikers would not be using it.
26. Jacked up the shop floor and installed more floor joists to make it suitable for wood storage.
27. Checked on and located site for new log lean-to to replace #8 to possibly be brought in during the winter.
28. Worked repairing grating in the wood stove.
29. Cleaned and painted the floors in the crew camp and CR1 camp and porch.
30. Moved empty propane cylinders to lean-to #1 to be hauled out during the winter months.
31. Constructed heat shield for stove in bunkhouse.
32. Closed down facilities draining water system and securing buildings and preparing for the winter months.
33. Prepared trash materials to be hauled out during the winter.

<p>RUSSELL POND – CRI Brendan Curran, CRI Thomas Lohnes (Acting Capacity) CA Dan Randall</p>
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1. Opened up the camp facilities cleaning and scrubbing hooking up the water supply and checking the campground for winter damage.
2. Cleaned fireplaces and toilets and raked sites.
3. Prepared canoes and checked life preservers and paddles at Russell Pond, Deep Pond, Six Ponds, and Wassataquoik Lake and Pogy Pond.
4. Assisted with the construction of a new log lean-to at Pogy Pond.
5. Set and secured low water foot bridges over Turner Brook.
6. Cleared blowdowns from area trails.
7. Painted bunkhouse and all outhouse floors.
8. Cleaned up and stacked the lean-to debris at Pogy so that campers would burn it as camp firewood.
9. Installed hanging pegs and shelves in the new lean-to at Pogy Pond.
10. Checked over and cleaned propane refrigerator stacks.
11. Stained and lettered signs and posts and replaced as needed.
12. Completed daily, weekly and monthly reports as required
13. Built new shower room in workshop.
14. Cut up, split and stacked firewood to be used at the ranger facility and crew camp.

15. Built new bunkbeds and painted floor in Crew camp.
16. Installed new cover and regulator and bottle platform for propane system in crew camp.
17. Regularly checked and cleaned outlying campsites at Wassataquoik Stream, Wassataquoik Lake, Little Wassataquoik Lake, Davis Pond and Pogy Pond.
18. Cut brush and enlarged area around heliport pad.
19. Continued mulching toilet waste and removed to appropriate area for composting area.
20. Serviced and repaired chainsaws and fire pump.
21. Installed 4 new propane lights in CR1 cabin.
22. Stained outside of CR1 facility.
23. Checked and serviced batteries in solar powered system.
24. Repaired or replaced bog-bridging material in campground areas.
25. Built and installed new rain gauge.
26. Replaced signposts and signs at Wassataquoik Lake, Green Falls, Grand Falls, Northwest Basin.
27. Repaired scales by installing new posts and basket for backpack weight scale in campground.
28. Cut up and removed blowdowns from area trails.
29. Repaired skid plate on canoe.
30. Closed old Turner bridge and built new one for hikers to cross brook.
31. Fixed a broken roof rafter on the lean-to at Little Wassataquoik Lake.
32. Reblazed trail through beaver dams at Little Wassataquoik Lake.
33. Completed inventories and requisitions for 1999 season.
34. Stored canoes, life preservers and paddles for the winter
35. Removed seasonal bridges from Turner Brook and Wassataquoik Stream.
36. Drained water systems and prepared for winter using nontoxic antifreeze.
37. Jacked up and leveled the main CR 1 facility and installed joists and beams where needed.
38. Hauled firewood from CR1 cabin to the bunkhouse to be used by campers during the winter months.

<p>SOUTH BRANCH POND – CRI Keith Smith, CA Ryan Smith (Acting Capacity)</p>
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1. The campground is opened by cleaning building and facilities; also checking the area for winter damage and getting the water system operating.
2. Trash is removed from Russell Pond, hauled out the previous winter to the local disposal area.
3. Picnic tables secured the previous fall are set to their proper positions, campsites are raked and fireplaces and outhouses are cleaned.
4. Dead trees and broken branches are cut up and removed to the wood disposal area.
5. Canoes, life preservers and paddles are checked over and made ready for public use.
6. Boats and outboard motors are checked over and made ready

7. Docks and the swimming float are placed and anchored.
8. Day-use areas at Trout Brook Crossing and Burnt Mt. are raked and cleaned.
9. Flotsam and dryki are removed from the docking areas.
10. Assisted with opening of Trout Brook campground.
11. Inspected fireplaces and trimmed branches and trees necessary and required; secured the proper mowed grass strip or mineral soil strip as required.
12. Cut up and removed the old swim float and disposed.
13. Mowed grass and trimmed around buildings as needed.
14. Replaced or repaired signs, posts and fences as needed.
15. Continued restoration process in the shorefront area of the campground lining areas with large rocks and planting trees where appropriate.
16. Removed blowdowns from the perimeter road systems and the Dwelley Pond access road.
17. Gathered and placed flat rocks for the bunkhouse-landscaping project.
18. Repaired or replaced and stained picnic tables.
19. Installed a new sign at Trout Brook Crossing.
20. Leveled and repaired outhouse at the canoe site.
21. Prepared registration box and installed at the Burnt Mountain trailhead.
22. Assisted with the clean out of beaver debris from the two large culverts at Wadleigh and Dry Brooks.
23. Relocated swim dock after it washed downstream during high winds and high water.
24. Repaired and replaced screens to bunkhouse.
25. Cut new flagpole and dug hole to install it.
26. Stained new picnic shelters at lower South Branch day-use picnic area.
27. Removed brush and blowdowns from area trails.
28. Hauled in and spread gravel in day use area.
29. Collected rocks and installed in the day-use area to prevent erosion, and planted 75 trees/shrubs.
30. Split and stacked firewood for administrative use.
31. Hauled many bundles of firewood from McCarthy Field to South Branch to be sold to campers.
32. Jacked and leveled woodshed and put floor in it adding new partitions and shelves.
33. Cleaned out ash hopper at Telos service area.
34. Cleaned Bunkhouse at McCarthy Field and washed floors.
35. Gathered and placed several rocks for beachfront stabilization.
36. Replaced North Traveler summit signpost and sign.
37. Split and stacked firewood for winter use at bunkhouse.
38. Tore down and removed old 'gas shed' and hauled demolition debris to the Telos wood disposal area.
39. Regular maintenance of outlying sites at upper South Branch and the Fowler Ponds area.
40. Removed shingles and resingled crew camp facility, and replaced the old chimney with a metal-bestos.
41. Constructed boat slip for Upper South Branch boat and motor.

42. Hauled cedar logs for restoration project.
43. Tore down old outhouse by site 35 and replaced with a new log-sided single hole.
44. Installed handicap access rails in handicap-friendly toilets.
45. Disassembled block chimney and installed new metal-bestos chimney in the CR 1 facility.
46. Serviced chainsaw, fire pump, lawn mower, weedwacker and hand tools as needed.
47. Installed summit signs at South Branch Mountain at north and south peaks.
48. Installed information sign by spring on North Traveler trail.
49. Started replacing metal fireplaces with rock.
50. Painted living room wall in CR1 cabin.
51. Installed several large boulders as part of restoration project to designate parking areas.
52. Disassembled old wood barrier fencing.
53. Drained outboard motors and stored for winter.
54. Prepared canoes, life preservers, paddles and boats for winter storage.
55. Graveled several parking areas at lean-to and tent sites.

<p>TROUT BROOK – CRI Dan Anderson (Acting Capacity)</p>

1. The campground is opened by the Park Rangers with assistance from South Branch and Matagamon Gate personnel, by getting the water running cleaning toilets, raking sites and removing debris which has fallen during the winter months.
2. Several acres of grass are mowed continually during the season.
3. Weekly foot patrols are made during the season to Fowler Ponds, Billfish Pond, Long Ponds area, cleaning toilets and raking sites and cleaning fireplaces, as well as clearing trails of blowdowns.
4. Gravel was hauled and leveled at site # 19 parking area.
5. Repairs were made to outhouses and buildings.
6. The office area of the CR 1 was cleaned and reorganized.
7. The gutter over the office door was reinstalled.
8. Assisted with coverage at South Branch Campground until assistant came to work.
9. Repaired screens on office porch.
10. Installed speed bumps on perimeter road through campground and placed signage and reflectors at these locations.
11. Repaired riding lawn mower deck.
12. Completed weekly, monthly and annual reports.
13. Continually hauled firewood from McCarthy Field to Trout Brook for sale to Park visitors.
14. Removed screens and installed handrails in handicap accessible toilet at tent site # 25.
15. Repaired outhouse 'kick plate at K.P. Dam site.
16. Removed damaged birch tree at Littlefield Pond site.

17. Assisted removing shingles and reshingling project at South Branch Ponds crew camp.
18. Measured site space where tents are allowed to be pitched. This information is placed on the campground maps for visitor information.
19. Installed new sign and signage at Trout Brook Mountain trailhead and Parking lot.
20. Maintained and cleaned campground truck as needed.
21. Replaced Horse Mountain trailhead sign.
22. Delivered recyclables to appropriate location in transfer area.
23. Spread calcium chloride for dust control through campground road.
24. Returned empty propane cylinders to Millinocket and picked up 5 cylinders each time truck serviced.
25. Replaced propane and repaired gas light at McCarthy Field camp.
26. Hauled gravel and leveled ramp to handicap accessible toilet.
27. Assisted with erosion control project on waterfront at South Branch Ponds.
28. Assisted with removal of debris from culvert plugged by beaver near Dry Brook.
29. Prepared site, installed cedar posts dug fireplace and constructed new picnic shelter for day-use.
30. Built a hand tool rack in generator shed at the shop.
31. Renovated tent sites #25 and #26.
32. Cut, split and stacked firewood for administrative use.
33. Stained the new day-use picnic shelter.
34. Spread and leveled gravel at site # 19.
35. Set up a first-aid station for easy access at office.
36. A new handicap vault cover was installed near site # 25.
37. New signage was placed at beginning of the Freezeout trail.
38. Assisted with transportation of large rocks for renovation project at South Branch Ponds.
39. Closed up the facilities after placing banking around CR1 so facility can be used by volunteers during the fall.

ALPINE RANGER CHIMNEY POND – Stewart Guay

1. Finished hauling propane cylinders from Roaring Brook to Chimney Pond and bringing empty cylinders from Chimney Pond to Roaring Brook.
2. Moved trash from Chimney Pond to Roaring Brook.
3. Hauled firewood for camper and ranger use from Roaring Brook to Chimney Pond.
4. Continually prepared trail to facilitate use of totesleds to transport materials between Roaring Brook and Chimney Pond.
5. Removed demolition materials including shingles from Chimney Pond
6. Checked and cleaned toilets daily.
7. Hauled requisitions from Millinocket to Chimney Pond.
8. Split and stacked kindling.
9. Maintained ski trail behind Abol Pond and constructed information signs at trailheads.

10. Shoveled camps at Daicey and Kidney Ponds.
11. Provided assistance to Millinocket office on occasions.
12. Hauled building materials and repair lumber to Chimney.
13. Removed blowdowns from roads and trails when necessary.
14. Assisted removing ice and snow from Millinocket office facility.
15. Shoveled out outhouses and building entrances frequently
16. Prepared snowsled trail and hauled 2-sided log cedar from Roaring Brook to Chimney Pond for lean-to # 9 replacement.
17. Assisted with various technical training teams by transporting them to and from Abol Bridge and Chimney Pond.
18. Hauled 1100' of new 1 1/2" firehose to Chimney Pond.
19. Hauled load of cedar logs to Chimney for signposts.
20. Serviced snowmobile and trucks as required.
21. Assist locating, clearing blazing and painting Park boundary as time allowed. (East from Abol hill 2mi. and west from Roaring Brook Road not quite connecting. and in SE corner of Park.)
22. Assist draining water systems and preparing Mountain View camp for an unoccupied winter.
23. Assisted putting up partition in bunkroom at Togue Pond
24. Assist construction of ski trail from Abol Pond to Rum Pond area.
25. Continually removed snow from porch roof at Chimney Pond
26. Assessed damage to antenna blown over by wind during 98 fall season.

<p>REGION I PARK RANGERS – Barry MacArthur Park Ranger II, Loren Goode Park Ranger I, Thomas Chase Park Ranger I, Charlie Kenney Park Ranger I</p>
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1. Winter servicing of snowsleds includes regular checks of moving parts, greasing and bolt tightening.
2. Rangers plow snow and sand the Millinocket office and garage complex week-ends and assist at other times when available.
3. Rangers assist with maintenance of the backhoe and farm tractor. The bush-hog attachment was overhauled and rebuilt during the winter.
4. Hours are spent preparing the winter trail to Russell Pond to allow materials to be transported by snowsled.
5. A winter bridge was built over six Ponds Brook south of Pogy Pond about 3/4 mile.
6. Assistance was rendered shoveling off roofs at Daicey and Kidney Ponds.
7. Assistance was given shoveling snow and ice off the roofs at the Millinocket garage, the office complex and the supply building.
8. Supplies and propane were hauled to Russell Pond and trash and empty propane cylinders were hauled out.
9. Approximately 3 miles of boundary was painted along the east line from the Northwest corner of the Park.
10. Built holding vise to put 16 teeth of bush-hog in to sharpen all at one time.
11. Repaired snowsled ramp of Park Naturalist.

12. The annual report was completed and submitted to the Chief Ranger.
13. The backhoe was used occasionally to push back banks at the Millinocket complex.
14. Removed old cinder blocks from Russell Pond to South Branch.
15. Shoveled off building at the radio repeater in Patten and monitored generator activated after an icestorm shut power off for nearly two days.
16. Removed trash and an old canoe from the Fowler Ponds area.
17. Built sign frames for Baxter Park regulations and posted at Webster Lake.
18. Planed cedar boards to 1/2" to be used to construct chairs.
19. Shoveled roofs off at Trout Brook, Martin camp, Davigneau camp, Little East lean-to, Park Ranger's camp at Trout Brook, and the snowsled shed at Matagamon parking lot.
20. Serviced generators used for project construction at Trout Brook.
21. Stenciled 25 signs for South Branch campsites.
22. Cut and hauled 1-1/2 cord firewood for administrative use at Russell Pond.
23. Patrolled on Park roads and lakes checking snowsleds and fishermen.
24. Covered campground at Chimney Pond on Alpine Ranger's days off.
25. Checked winter parties at roadside and backcountry areas whenever possible.
26. Hauled roof, floor, floor joists, rafters and 2-sided log material from Matagamon to Pogy Pond to be used as a replacement lean-to to be built during spring.
27. Hauled firewood from CR1 camp at Russell Pond to bunkhouse to be used by winter campers.
28. Hauled cement pads to Russell Pond to be used under CR1 camp after jacking and leveling.
29. Dismantled and cut up old lean-to at Pogy Pond, and removed the shingles to South Branch Pond.
30. Removed old bathtub from Russell Pond to South Branch Pond and disposed of at recycle facility.
31. Routed and sanded 30 signs for South Branch Pond campsites.
32. Checked out water problem in roof at Chimney Pond and will insulate and rebuild attic interior in 1999.
33. Assist transportation of MASAR rescue teams at times of training at Chimney Pond.
34. Started construction of skis for totesleds (stainless).
35. Constructed fireplace pan for site at Webster Lake.
36. Assist moving 2-sided log material from Roaring Brook to Chimney Pond for lean-to #9 replacement.
37. Assist moving seasonal Ranger supplies to Russell Pond to be used during the summer season.
38. Moved repair material from Matagamon Lake to Burnt Mountain repeater to be used during the summer.
39. Planed and lettered corner posts to be used at township corners when doing boundary repainting.
40. Assisted with seasonal position interviews in Millinocket to establish roster for Director to hire from.
41. Moved boathouse at Upper South Branch Pond to new location.

42. Removed old boat from Long Pond.
43. Serviced dump trucks in Millinocket and checked over equipment trailer.
44. Assist carpenter prefab handicap toilets in Millinocket.
45. Hauled 2-sided lean-to materials from Matagamon to Trout Brook on snowsled to be precut during the summer.
46. Cut new winter trail between ponds at South Branch Pond.
47. Jacked and leveled walls in Park Ranger camp at Trout Brook.
48. Put up strapping and new ceiling at Park Ranger's camp at Trout Brook.
49. Replaced cupboards at Trout Brook Park Ranger's camp.
50. Using 310 bulldozer borrowed from Maine Forest Service, the perimeter roads were plowed from Togue to Daicey and Kidney Ponds approximately 6"-12" of snow, and plowed from Matagamon to South Branch 1' to 2 1/2' of snow.
51. Sanded and varnished kitchen area of Park Rangers camp at Trout Brook farm.
52. Rewrote information sheet for Baxter Park waters for fishing regulations.
53. Assist with litter removal from grounds at the Millinocket Support Services area.
54. Installed new gate in Millinocket garage area near pole barn.
55. Piled lumber in pole barn at garage.
56. Installed portable tank on Ranger Chase's truck for diesel storage.
57. Installed 2 new culverts on the South Branch Ponds road
58. Cleared trees along fence between MacDonalds and Park office in Millinocket.
59. Assist moving new Office manager in Millinocket.
60. Replaced four picnic tables in day-use area at Headquarters.
61. Cleaned out and sorted steel pile near polebarn saving usable material.
62. Installed culvert in tote road near site #16 at Trout Brook Farm.
63. Hauled gravel from East Branch at Trout Brook for spring road repair.
64. Removed old steel culvert to group area at Trout Brook and installed cedar wood culvert.
65. Painted racks on vehicle # 54.
66. Repaired bilge pump on Matagamon boat.
67. Went over fireplace inspection requirements with Chief Ranger and Chris Byers of Maine Forest Service.
68. Put boat and dock in at Matagamon Lake.
69. Removed culverts and installed waterbars on old road system on new lands acquired in 1997 near Abol Bridge.
70. Repaired tow-behind grader used by DOT personnel at the northern end of the Park.
71. Repaired Park tote road south of Ledge Falls that had been washed out by Nesowadnehunk Stream. (20' long)
72. Assisted with lost person on Freezeout trail that had missed the trail junction at Hudson Brook.
73. Assist escorting DOT screen crew from Matagamon to Nesowadnehunk Field to screen approximately 6000 yds. of gravel at the pit.
74. Assist arranging for Pelletier Brothers co. replacing frayed hydraulic hoses on backhoe.
75. Stacked 8000' of lumber delivered to Millinocket in polebarn area.
76. Cleaned vehicles and adjusted equipment for seasonal changes.

77. Repaired plumbing in visitor center and bunkroom at Togue Pond.
78. Assisted with coverage at Russell Pond while ranger is on days off.
79. Hooked up water and propane in visitor center and repaired window in Trapper John.
80. Cut brush and blowdowns along the perimeter road as time permitted.
81. Cleared ditches and culverts along road system using shovels as needed.
82. Assisted opening Trout Brook South Branch, and Nesowadnehunk campgrounds.
83. Cleared culverts and beaver dams where needed throughout Park road system. (Fowler Brook, Wadleigh Brook, Doubletop Brook).
84. Mowed lawns and sites at Trout Brook until CRI work season starts.
85. Assist installing a new swim dock at South Branch Pond.
86. Located and hauled large rocks for South Branch Pond shoreline restoration project.
87. Spread and leveled gravel in day-use area at South Branch Ponds Campground.
88. Serviced lawn mowers, chainsaws, fire pumps, generators and other small power tools.
89. Checked and cleaned sites on Matagamon Lake regularly.
90. Checked campers, cleaned toilets and sites, and checked fishermen regularly in the Fowler and Long Ponds area.
91. Graded road at bottom of Abol hill and also the Daicey Pond road using the rock rake.
92. Hauled lumber from Parker's mill to Millinocket.
93. Bush-hogged Park tote road from Matagamon Lake to Nesowadnehunk Field.
94. Removed large poplar, white birch and spruce from west side of Nesowadnehunk pit for more room for DOT gravel screening crew.
95. Removed beaver dam from under bridge on Togue Stream
96. Replaced toilet vault tops at day-use areas at Abol, Katahdin Stream, Daicey Pond, Kidney Pond and near site #25 at Trout Brook with handicap accessible vault covers.
97. Installed new vaults at Togue Pond Mountain View, Nesowadnehunk field day-use, Nesowadnehunk campground near year-round camp, Rum Brook picnic area, and Matagamon gate.
98. Repaired boom lock on back-hoe.
99. Removed old steel at Togue Forestry camp to recycle facility.
100. Serviced winch for farm tractor and installed.
101. Hauled 6 loads screenings from Nesowadnehunk pit to Tracy Pit for future use.
102. Removed tree logs from Nesowadnehunk pit to wood disposal area to be cut up for camper firewood.
103. Repaired washout on Tea Pond road.
104. Assisted with toilet pumpout of toilets in campgrounds.
105. Assisted with Restoration contractor at Abol Stream near Abol Bridge Campground.
106. Assist with traffic entry at Togue Pond Gate whenever available and necessary.
107. Checked backcountry ponds and streams for fishermen to protect Park resources.
108. Constantly monitor heavy use areas during the busiest parts of the season to assure visitor compliance with Governor Baxter's wishes.

109. Constructed trusses to lift toilet buildings off vaults to replace them with handicap-friendly tops.
110. Dug out water hole for DOT at camps located on north branch Trout Brook.
111. The 500-gallon toilet vault was relocated from Matagamon gate to Trout Brook Park Ranger camp.
112. Constructed new racks for Bob Howes' vehicle.
113. Removed scratches from Farm tractor using rubbing compound.
114. Assisted with lightning strike at Nesowadnehunk Field Ranger camp.
115. Installed new flagpole at South Branch.
116. Cleared trees and removed brush from new site of crew camp for Gatekeepers at Abol Field.
117. Graded around new camp at Abol Field so that contractor could begin construction after frost wall was completed.
118. Hauled over 140 yards of gravel/sand from Abol pit to new crew campsite.
119. Removed trees at Millinocket supply area to provide space for new garage addition for the Director.
120. Assisted Roy Farnsworth with soils test for new facility at Abol Field for septic system.
121. Repaired tow-behind grader by welding piston shackle.
122. Picked up bridge material from 'Woody's' in Medway to be used by Lester on a new bridge over Katahdin and Abol Streams on the Appalachian Trail near Abol Bridge.
123. Picked up more 2-sided cedar planking from 'Woody's' mill in Medway and hauled it to Trout Brook for Little East lean-to construction.
124. Repaired/welded top of culvert 1/4 mi. south of Horse Mountain trail on Park tote road.
125. Corrected campground tent space information sheets by listing amount of available square footage rather than number of tents.
126. Removed problem rocks from parking area at Roaring Brook and filled holes with gravel.
127. Dug foundation hole for frost wall to garage at the Directors residence, and back-filled after foundation poured.
128. Removed loam from driveway area of Directors garage and filled with gravel, then covered with recycled asphalt material.
129. Hauled stumps from Abol Field to fill area on Tea Pond road.
130. Jacked up and leveled woodshed at South Branch replacing sills, floor joists and installing shelves.
131. Assisted with landscaping day-use area at South Branch road.
132. Moved lean-to at Little East approximately 12' in preparation for making room for a new 2-sided log lean-to to be hauled in and constructed next winter.
133. Pre cut 2-sided log lean-to at Trout Brook and got material ready to transport to Little East to construct the lean-to during the winter.
134. Assisted constructing single hole toilet at South Branch Pond Campground.
135. Drilled and anchored toilets to vault tops at Trout Brook and South Branch Pond, and installed rails in handicap-friendly toilets.
136. Constructed picnic shelter in day-use area at Trout Brook.

137. Checked solar systems for radios and charged batteries.
138. Checked on proposed lean-to site and trail to Frost Pond.
139. Installed new pre-fab chimney in South Branch CR1 camp.
140. Cut, split and stacked firewood for Martin Camp.
141. Buried old cement vault tops at Nesowadnehunk Field pit.
142. Broke up and buried old cement vault at Togue Pond.
143. Removed brush from flagpole area at Millinocket office.
144. Removed metal objects from old dump on Tea Pond road.
145. Cleaned culverts on Abol hill.
146. Removed beaver dam on Abol Stream near Ladd culvert after water appeared in roadside.
147. Removed several loads of cedar bark from Abol pit to the Rum Mountain wood disposal area.
148. Assisted shingling Trapper John camp at Togue Pond.
149. Hauled screened gravel from Nesowadnehunk pit to Daicey Pond hill and also for ramps for handicap toilets installed during the summer.
150. Drained water at the Administrative camp, and the visitor center at Togue Pond.
151. Set large rocks at Trout Brook and South Branch at specified locations using the backhoe.
152. Ditched the South Branch Ponds road.
153. Removed cedar bark left from firewood detail at McCarthy Field to the Telos wood disposal area.
154. Assisted DOT spreading surface gravel on roadway south of Nesowadnehunk Field. (Approximately 6000 yds. Screened gravel)
155. Started bush hogging from Nesowadnehunk field to Matagamon gate and also the Dwelley Pond road.
156. Redecked the sub-deck of the Kidney Pond Bridge and installed surface treads. Removed the old subdeck to the Rum Mountain wood disposal area.
157. Unhooked water and drained seasonal camps before fall freeze-up.
158. Assisted removing dock and floats at South Branch.
159. Completed inventories.
160. Placed banking boards around CR1 facility at Trout Brook so it may be used by volunteers during late fall.
161. Removed boat and docks from Matagamon Lake.
162. Cut, split and stacked firewood and kindling at Trout Brook Park ranger camp and the garage.
163. Cut blowdowns on the Park tote road and side roads.
164. Assisted coverage on Matagamon gate whenever gatekeepers were on days off.
165. Burned wood debris at the Telos wood disposal area.
166. Resurfaced most of roads in Katahdin Stream campground.
167. Backfilled around porch around new camp at Abol Field.
168. Replaced wood rails at the day-use area at Togue Pond beach with large rocks using the backhoe and dump trucks.
169. Installed post for snow load at the Administrative camp at Togue Pond.
170. Installed new corner posts to Park lands near camp Phoenix and south of the trail from the Park tote road to Nesowadnehunk Lake.

171. Unloaded pine paneling at new camp at Abol Field. (8000')
172. Blazed and painted the hunting line 1 1/4 mile east of the Roaring Brook road to Spring Brook, and 1 mile east of the line at the top of Abol hill.
173. Blazed and painted boundary line at Matagamon Lake south over Billfish Mountain to intersection of old upper Fowler trail. (3+ miles.)
174. Installed corner post T6 R9 - T6 R10 along the north line of Park.
175. Blazed and painted north boundary line just east of Brayley Brook east along line to approximately 1 mile west of Hay Brook. (About 5 miles.)
176. Removed 3 toilets from Abol Scout area to Rum Mt. wood disposal area.
177. Removed diesel fuel storage tank from Ranger I vehicle for winter.
178. Assisted burning wood at disposal area at Rum Mt.
179. Constructed a rescue transport sled to be used to transport rescue personnel during rescues and training exercises.
180. Removed part of banking boards from CR1 after volunteers done at Trout Brook.
181. Put out no-snowmobiling signs at areas along the perimeter at appropriate locations.
182. Rehandled several axe heads.
183. Worked clearing game preserve line west of Black Brook road along the T6 R10 line. (about 3/4 mile)

1998 BAXTER STATE PARK VOLUNTEER PROGRAM

A total of 185+ volunteers provided 5,797 hours of valuable service toward the protection and preservation of Baxter State Park in 1998.

Volunteer hours by location are as follows:

Abol	-	100	Roaring Brook	-	125
Administrative	-	129.5	Russell Pond	-	194
Daicey Pond	-	377	Search & Rescue	-	768
Katahdin Stream	-	99	Togue Pond	-	276
Kidney Pond	-	965.5	Trail Maintenance	-	1,948
Matagamon Gate	-	56	Trout Brook Farm	-	27
McCarty Field	-	40	Miscellaneous	-	117
Total					5,797 hrs.

A nearly complete list of Baxter State Park Volunteers who rendered service are as follows:

BAXTER PARK VOLUNTEERS:

Helen Wood
Alton White
Bixler Family
Bob & Barbara Whitehead
Bonnie Keith
Bruce Gordon
Dail Martin
Dan Lebmin
Dave Flanagan
Denise Goode
Don Fendler
Ed Dwyer
Gabe Williamson
Gary Cox Family
Harland Turner
Jane Thomas
Janice Bilodeau
Jeremy Priest
John Bear Mitchell
John Glowa
John Gould
John Neff
Johnson Family
Larry Labonte
Margaret Coleman
Mark Coulombe
Mike Distefano
Paul & Francine Richard
Paul & Gretchen Labbee'
Roger & Lori Rand
Roni & Abbie Strout
Russell Courtier & Scout Troop
Sally Mathews
Sandy Benne
Steve Jackson
Sue Bodyke
Susan Gunter
Susan Lohnes
Teri-Ann Miller
Volunteers for Peace
Wayne Milligen
Woody Shedd
Zachary Rand
Mary Fox
Sam Cronkite
Duffy Akerley
Mary Mitchell
Bob Erickson
Alan Rees

Cynthia Perry
Jill Chase
Sue Nowlin
Isabelle Carson
John Howard
Linda Ives
Latona Torrey
Chitanya York & Friends
Jim Hall
Gary & Eric Trask
Rick Scribner
John Loyd
Connie Coulter
Chuck & Steve James
Joanna Thorpe
Loren Goode, Jr.
AMC Bangor Area:
Beth Caddy
Shirley Ellis
Vickie Bennett
Lindsay Bennett
Diane McKeen
Alan McKeen
Don Vickery
Jane Shields
AMC Service Trips:
Tim Levesque
Belcher Stanley
Joseph Miller
Jim Tracey
Jenn Manzella
Dan Kirby
Jennifer Mellen
Joe Saetta
Doug Kneale
Daniel Pierce
Michael Debelis
Carol Blum
PATH:
Margaret Coleman
Julie Hagle
Kim Kadin
Mary Knowlton
Cheryl Hathaway
Dave Gilbert
Marjorie Stratton
Gerilyn Bosse
Carolyn LaBossiere
Debra Perro

Charles Burwell
Elsa Sanborn
Frank Trautman
Richard Aspinall
Ricky Daniel
Daniel Dwinal
Deborah Flagg
Francis Hanley
Tina Madore
John Minot
John Horn
Richard Bouchard
Scott Kady
Tom Bradbury
Scott Pfeiffer
Norman Putnam
Stacie Smith
Thomas Shoesmith
Susan Burnell
James Burnell
Paul Bortz
Cherrie Bortz
Steve Jones
Peter Crooker
Mary Schmidt
Harry Cunningham
Rick Ste. Croix
Mike Levane
Janet Wagner
Mildred Luce

X PROJECTIONS OF MAJOR PROJECTS FOR 1999

1. Prepare the Rum Pond ski trail for summer trail usage.
2. Replace north crib of Trout Brook footbridge.
3. Reroute Grassy Pond Trail.
4. Mow 15 miles of Park tote road south of Nesowadnehunk Field.
5. Install bog bridges on wettest portion of the Wassataquoik Lake Trail.
6. Repaint 10 miles of Park boundary.
7. Installation of picnic shelter at Trout Brook Farm.
8. Insulate attic of Chimney Pond Ranger station.
9. Complete the major renovation of Daicey Pond library – reshingling, sill log replacement, redecking of porch.
10. Install septic system and leachfield at Abol Field.
11. Renovation of Burnt Mt. Tower – window replacement and siding.
12. Relocate boathouse lean-to Outlet of Webster Lake.
13. Disassemble and remove to old Horse Mt. Fire tower.
14. Haul rental canoes into Long Pond (2), Lower Fowler Pond (2), Center Pond and Hudson Pond.
15. Remove old Little East lean-to with new cedar log lean-to.
16. Complete 50% of finish work at Abol Field crew camp.

C. SCIENTIFIC FOREST MANAGEMENT AREA



A. Forest Management

• SFMA Forest Management Plan

After 18 months of work, the Baxter State Park Authority approved the revised SFMA Forest Management Plan at the October 16, 1998 regular meeting at Kidney Pond. The management plan should be printed and ready for distribution in early 1999. Representing many hours of work and review, the SFMA management plan is a comprehensive description of what the SFMA has been, is now, and hopes to become. As a work-in-progress, the plan will change constantly over the years to come as new knowledge and thinking refines our approach to forest management. Many thanks to the SFMA Advisors and others who provided constructive comments based on careful review.

One issue that requires additional discussion is the issue of white-tail deer wintering area management. Conversations over the course of the year with regional biologists and Mark Stadler of IF&W will hopefully lead to revisions in the deer management text that recognize both the forest structures that will result from the long-term management directives in place on the SFMA, and traditional IF&W standards for deer wintering area protection. Viewed on a landscape scale, the SFMA is part of a larger deer wintering complex extending up and down the Webster Stream and East Branch Penobscot corridors outside of the SFMA.

A key component of the management plan is a call for the installation of long-term monitoring systems for resources found in the SFMA including flora, fauna, water, and soil. Some first steps were taken toward this initiative in 1998 including;

- ✓ the installation of “cover object arrays” for the sampling of upland terrestrials
- ✓ planning for the installation of census techniques for white tail deer
- ✓ the inclusion of coarse woody debris measurements into the Continuous Forest Inventory protocol
- ✓ the development of a protocol for measuring water quality in the SFMA beginning in 1999.
- ✓ IF&W conducted a fish survey of Hudson Pond in 1998. Data, including recommendations for regulatory changes, will be available early in 1999.

In addition, with the completion of CFI plot installation in early 2000, a census of forest fauna and birds can be included in the regular CFI work.

• SFMA Advisory Committee¹

The SFMA Advisors met on April 29 at the US Government Building in Stillwater for the 1997 operating year review. In addition to the 97 operations review, the draft management plan was also reviewed. The redraft resulting from this review was presented to the BSPA at the May meeting at Kidney Pond as a preview prior to the final plan presentation in October. The review and comments of the SFMA Advisors

¹ SFMA Advisors attending the '98 Field Tour pictured on cover page from left: Joe Wiley (Chairman), Mel Ames, Alison Dibble, Mac Browning, Jensen Bissell, Carol Redelsheimer, Philip Ahrens

on the numerous draft plans provided an invaluable component in the effort to complete a quality planning document.

In addition to the April 29th meeting, the SFMA Advisors met again for the 11th annual SFMA field tour on September 16-17. The focus this year was a review of current operations in the Hudson Pond area.

- **Forestry Aide**

1998 marked the initiation of the SFMA Forestry Aid position. This 14 week position was approved in 1997, but due to budget constraints, was offered only as a 7 week position in 1998. Interviews were conducted on March 30 and Bryan Swenson of Belfast, Maine, a forestry student at UMO, was offered the position. Bryan began his work on July 1 and finished up in late August. Working out of the Webster Lake Camp, this position provides needed on-site maintenance and forest measurement assistance and offers a variety of forest management experience to the incumbent. In 1999, the position will run a full 14 weeks from mid-May to mid-August.

FORESTRY AIDE PROJECT LIST

1. Cruising operational blocks
2. Kennedy Bog Road layout for summer construction
3. Monument operational blocks
4. Reestablish marking of crop trees in block 1138
5. Establish photo plots
6. Road raking
7. Roadside mowing in southern end of SFMA
8. Assisted IF&W Hudson Pond fish survey
9. Weekly clean -up and maintenance of campsites on Webster & Hudson
10. Cut and Split firewood at Webster Lake Camp
11. Paint floor at Webster Lake Camp

B. Forest Operations

- **Operational Summary**

The 1998/99 harvest season was relatively uneventful. An early spring fostered the start of operations in the third week of May. Operations continued without disruption until the second week in March. Twenty four blocks were operated (two involving the completion of operations suspended from the previous year) with an average size of 38.5 acres and an average harvest of about 8 cords/acre. In total, harvest activities over 926 acres generated 6,894.4 cords – about 87% of the target harvest of 7,995 cords/year. The harvest was 58% softwood products and 42% hardwood products (15% aspen pulpwood and 24% mixed hardwood pulpwood). This reflects the continuing silvicultural effort to release softwood understories by the partial overstory

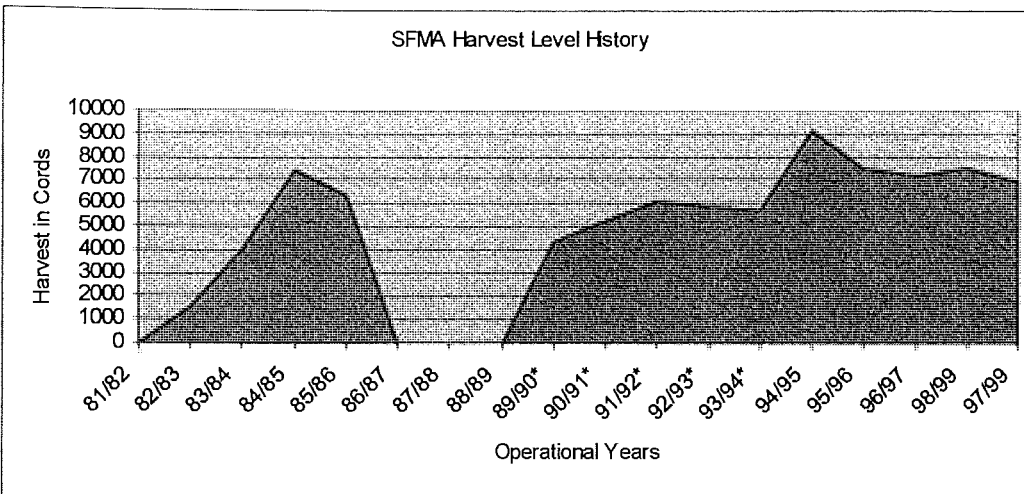
was supplemented by a chainsaw/forwarder crew working in hardwood selection, oversize removal and salvage work.

In the 97/98 year, the winter work was supplemented by the operation of an older Rottne (actually the original machine to begin work on the SFMA – since replaced with a new machine). This older machine was not available in 1998/99 and this change is reflected in our lower overall harvest levels.

Markets for products were reasonably stable throughout the year. The prices for spruce/fir studs climbed steadily through the period from a market low reached in April of 1998, providing us with steady, and eventually improving, mill prices for this important source of SFMA revenue. Hardwood pulpwood was boosted initially by the opening of new chipping facility in Dolby. Although not providing stronger pricing, this facility offered some advantage in shipping costs. Unfortunately, disagreement in pricing structures between the mill owner and primary buyers forced the facility to abruptly stop accepting deliveries in early fall. This precipitated a short-term disruption in our marketing. We also experimented with our hardwood log utilization this year by sending eight loads to the Huber facility in Dolby. This wood was sent as semi-tree length and merchandised by Huber. Analysis revealed that our utilization was better when we merchandised the logs at the stump, so we counted this trial as a learning experience and reverted to our previous markets and methods. Most of our cedar products were trucked to McLaughlin's mill in Medway for processing into bog bridging, leanto stock, and dimension lumber for picnic tables and other uses. Some of the material was sold to the mill as cedar logs.



Rottne Single-Grip at work in an SFMA stand



Woods Personnel:

Pelletier Brothers Forest Products Inc., SFMA Contractors for the 1998/99 operating season:

- *Eldon Pelletier, President*
- *Rudy Pelletier, Vice-President*
- *Gerald Pelletier, Secretary-Treasurer*
- *Reginald Beaulieu, Controller*

Rottne Cut-to-Length Harvester
Mike Irish

Rottne Forwarder
Dean Schlaunwhite

Road Construction
Brian Boutilier

Trucking
Brian Nutting
Steve Gilman

Forwarder/Chain saw
Reno Sylvain
Sylvain Lemieux

• **Road Construction and Maintenance**

3.3 miles of all-season road and 0.5 miles of winter road were constructed in 1998. Rather than concentrate road construction and associated harvest activities in one area, our intent is to spread the road construction over the landscape. Consequently, new road was constructed in compartments 1, 8 and 10. Although no new crossing construction was necessary in 1998, the reconstruction of both the Carlton Brook crossing on the Bowater access road to the SFMA and the smaller crossing on the north branch of Murphy Brook on the Brayley Ridge Road was necessary as the abutments of both crossings failed early in the season. The

reconstruction of the Brayley Brook crossing on the Brayley Brook Road was deferred until the 1999 season.

Ten years ago, new road construction costs comprised almost the entire road budget for the SFMA, but as the SFMA road system grows, so grows the need for maintenance of existing roads. In 1999, the SFMA expended 13 days in road grading work. This cost, as a share of SFMA road costs, will continue to grow slowly over the coming years until the completion of road construction around 2010, when new construction costs will cease and road maintenance will be the only road cost on the SFMA.

Approximately 5 miles of road were mowed on the SFMA in 1999, including 3 miles of road constructed in the mid 1980's that had heavily regrown. A few sections of this older, regrown road were then graded as a trial in renewing the road shape and surface. Evaluations will be concluded with a final grading in 1999. Eventually, about 15 miles of cleaning will be necessary per year on the SFMA. Methods to best accomplish this annual task continue to be developed.



New crossing construction – North Branch Murphy Brook

New crossing construction – North Branch Murphy Brook

On May 4th 1998, a coated seed/oat mix was applied to 1997 road construction. This has been a long-standing practice in the SFMA. In addition, test areas of roadside seeding of *wooly bulrush* were initially evaluated for establishment. About 300 red pine were planted at various locations along the 1997/98 road construction.

- **Summary of Road Construction and Maintenance Projects:**

<u>Project</u>	<u>Length (feet)</u>
Wadleigh Mountain Rd extension	3,300
Hinckley Brook Road extension	5,190
Indian Carry Road	3,050
Rhodora Bog Road	4,025
Traveler Road	2,100
Wadleigh Bog Road extension (winter)	<u>2,500</u>
Total road construction	20,165 (3.82 miles)
Ditch clearing - Useless Road	1,500
Bridge reconstruction – Brayley Ridge Rd	N/A
Bridge reconstruction – Useless Road	N/A
Grading – 13 days	N/A

- **Volunteer work**

1998's volunteer program was once again a very productive and rewarding experience. Two major projects this year included the jacking and stabilizing of the pump house at Coffeelos Camps, and the tool shed at Webster Camp. Many thanks to Tom Goetz, Frank Trautmann, and Paul and Joanne Woodward for the hours spent on their stomachs and backs to accomplish these construction tasks and assist us with setting up for two large tours. Other projects this year included sign replacements, trail work, spring water tile repair, cutting of firewood, building of four new beds at Webster Camp and other forestry related projects.

1998 Webster Lake Volunteers:

	<u>DATES</u>	<u>HOURS</u>
Tom Goetz	5/11 - 5/16	48
Frank Trautmann	5/11 - 5/16	48
Tom Goetz	6/10 - 6/12	24
Tom Goetz	6/21 - 6/22	16
Frank Trautmann	6/21 - 6/22	16
Tom Goetz	8/29 - 8/31	24
Dan Giovacchini	8/29 - 8/31	24
Dan Randall	9/9 - 9/11	12
Paul & Joanne Woodward	9/13 - 9/26	120
Tom Goetz	10/26 - 10/28	24
	TOTAL	356

"Webster is a special place for me. It must be one of those earthly

- **SFMA Camps**

Discussion and initial planning began in 1998 for the possible relocation of the Coffeelos Crew camps. The three cabins and associated support structures constructed circa 1988-90 at the former GNP campyard at Coffeelos now administered by the Bureau of Parks and Lands has served the SFMA contract crews well. As work shifted to the area south of Webster Lake the distance from the work area to the camps increased to at or above an average of 15 miles from camp to the worksite. In addition, Bureau personnel intermittently using the Coffeelos site have added to the concerns. At the request of the Park Director, a cost proposal is currently being developed to aide in the deliberation about the long term benefits of relocating the crew camps to a site within the SFMA. This is a complex and important long-term issue and consideration will continue toward a resolution early in 1999.

- **Snowsled Trail**

In late 1997, the Park Director approved a proposal to clear two short (1/2 mile each) sections of snowsled trail to provide long-term sled access to the Webster Lake area of the SFMA from Trout Brook Farm and the Park Tote Road. Previous access over the Webster Lake Trail had been lost with the conversion of some of this trail to forest management road and the closure of the remainder of the trail. Although winter operations and consequent snow plowing will occasionally interfere with access, long term access is now provided via the Black Brook Service Road/Ledge Road connection to the Wadleigh Mountain Road. Two short pieces of snowsled trail on either side of a section of winter road complete the access to Webster Lake. This route will be ready for administrative snowsled use in the 1999 winter season.

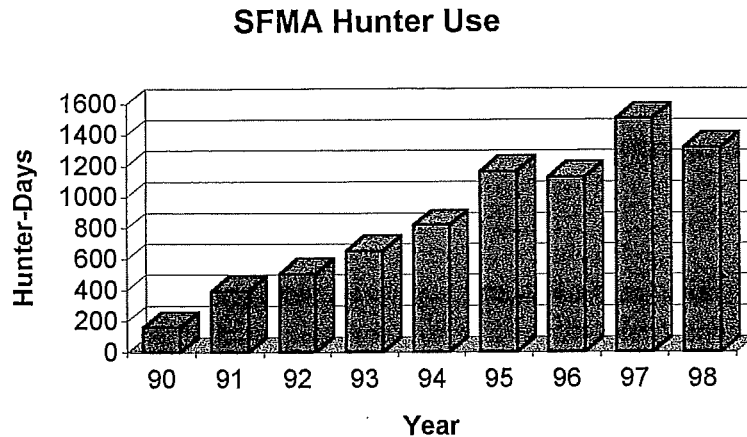
C. Recreation Management

The evaluation of use and maintenance of the SFMA trail system continued in 1998 with additional recommendations for change. Examination of reservation records for past years showed very low use levels for the Icewagon tentsite and the Boathouse leanto. These sites were always low-use sites, but after the closure of the Webster Lake Trail and the opening of the Wadleigh Brook Trail and the Hudson Pond leanto the use at these outlying sites dropped to almost nothing. After consideration, the Park Director authorized the following steps:

- ✓ Closure of the Icewagon and Boathouse outlying sites
- ✓ Transfer of the new leanto at the Boathouse site to the Webster Outlet site.
- ✓ Evaluation of a possible location of an access trail from the Freezeout Trail and leanto site at Frost Pond.

In the fall of 1998, the Park Director and Resource Manager and Ranger Loren Goode hiked to Frost Pond for an initial evaluation of the area. The Park Director has since provided approval to the development of a plan for the trail and campsite location and subsequent development over a 3 year period.

On February 23, 1998, the final loads of site debris were sledged out from the old Harrison cabin site at Hudson Pond. This debris was gathered and bagged by volunteers in the 1997 season. The amount of debris that accumulated at this site was prodigious and although some material will always remain, vegetation is well on the way to returning the site to a natural setting.



Hunting use remained relatively stable in 1998, actually dropping from 1997, with no incidents or recorded complaints. In addition to the October/November totals graphed above, there were 8 registrations in September and 48 in December. In addition to 1371 users who registered as hunters, an additional 43 registered for siteseeing and forestry pursuits (about 3% of total use) and 7 (1%) for fishing.

D. Research

The Directors Research Committee approved a research proposal by Steve Selva, a Professor of Biology working out of the University of Maine at Fort Kent, involving the survey of several old growth softwood and mixedwood stands within Baxter Park for lichens in the family *Caliciales*. High on Steve's list is a survey of the Boody Brook Natural Area. Steve visited this area in 1997, escorted by Bissell and Browning. His one-day preview prompted a proposal for a longer and more thorough

study of this and other areas in the Park. The results of Steve's work should be available in early 1999.

E. Education/Public Relations

- **SFMA Forest Tours**

Huber Foresters - On June 15 about 10 foresters from Huber Corporation led by Kenny Ferguson spent a half day touring and discussing SFMA operations and silviculture.

Forest Stewards Guild Tour – On September 25-26 the SFMA hosted the New England Fall meeting of the Forest Stewards Guild, a national organization of foresters. The group of about 12 foresters spent the evening of the 25th at Nesowadnehunk Campground in organizational meetings and an SFMA orientation session. The 26th was spent visiting the SFMA and reviewing SFMA stands, management issues and silviculture. This was an excellent two-way exchange of information and a productive tour for all involved.



Reviewing an SFMA Harvest with the Forest Stewards Guild tour

UMO Industrial Silviculture Tour – On October 4th, the SFMA once again provided a stop on the field trip of Dr. Robert Seymour's Industrial Silviculture class from the School of Forestry at the University of Maine. After an overnight at McCarty Field, the students spent the better part of the day exploring the SFMA's operations, history and management approach. This has become one of our most pleasant annual tours.

Kyle Jones of the *Marsh Billings Rockefeller National Historic Park* spent a December day touring the SFMA looking for ideas in implementing management on a 500 acre forest that is park of the relatively new MBR Historic Park located near Woodstock, Vermont.

Wildlife Society Tour- on Oct. 3rd an energetic and enthusiastic group of 24 individuals from the Wildlife Society toured the Boody Brook Natural Area led by SFMA Forest Technician Mac Browning. The group consisted of Foresters, Botanists, Wildlife Specialists, and a few of their children.

Mac had the group on the trail by ten o'clock and in the Boody Brook Natural Area just in time for lunch and an excellent talk by Wildlife Society member and SFMA Advisor Allison Dibble about her research in the Boody Brook Area. There was a great deal of feedback and discussion about this area, which continued all the way back to our vehicles.

The input from the group was very positive. They felt the day had been educational, stimulating, and just darn right *FUN*.

Other – in addition to the annual SFMA Advisor's Field Tour, we sent tour invitations to the Chairs of the Legislature's Joint Standing Committee on Agriculture, Conservation and Forestry. Disappointingly, there was no response to these invitations. We will try again in 1999.

- **SFMA Forest Talks**

- ✓ Talked to a small group of Dover Foxcroft Trout Unlimited about forest practices in the SFMA
- ✓ Along with other administrative staff, talked to Howland Middle School students about the SFMA and Baxter State Park.
- ✓ Provided an taped interview to Mitch Lansky for a summer/fall article in *The Northern Forest Forum*.
- ✓ Worked as part of a 2-day outdoor forest workshop for Millinocket Middle School students at the School's outing club site along Lower Togue Pond.
- ✓ Assisted by Mac Browning, provided an evening talk on SFMA management at Kidney Pond

- **Training Attended**

- ✓ New England Regional Council of Forest Engineers (NERCOFE) annual conference in Orono with Mac Browning – 3/2-3
- ✓ Maine Forest Bio-Diversity Project conference at the Birches in Rockwood with the Park Director and Naturalist - 4/7.
- ✓ Began a continuing effort as a committee member for the Maine Sustainable Forestry Initiative – several meetings in 1998.
- ✓ Munsungan Conference in Orono – 9/24.
- ✓ Audubon Conference on Forest Certification in Augusta – 10/8.
- ✓ UMO Office of Professional Development workshop on Forest Productivity – 12/16-17.
- ✓ Began a continuing effort as part of the Stakeholder Panel for the Shifting Mosaic Project.

F. Other Activities

- **Austin Cary Lot**

The Baxter State Park Authority approved the proposed forest management plan for the Austin Cary Lot at a regular business meeting on July 7, 1998. Prior to the meeting, the Authority met and toured the lot on June 23. Discussions have continued, and will continue, on the appropriate use of this parcel, but the adoption of the management plan provides a clear platform on which to build experience and demonstration. Later in 1998, the Austin Cary Lot Committee (J. Bissell, J. Loyd, B. Brusila and J. Wiley) met with Harpswell Island School staff to begin to develop appropriate protocols for school use of this lot for educational purposes. No harvest operations were scheduled for 1998.

- **Investment/Finance Committee**

At the request of the Director, I continued to attend meetings of the Park Finance Committee and Investment sub-committee.

Respectfully Submitted,

Jensen Bissell
Resource Manager
March, 1999

Block Harvest Summary - 1999

(All products in thousands of pounds)

B L O C K #	ACRES	CEDAR LOGS	HEMLOCK LOGS	PINE LOGS	SPR/FIR LOGS	HEMLOCK PULP	PINE PULP	BIRCH VENEER	POPLAR VENEER	POPLAR LOGS	HARDWOOD LOGS	HARDWOOD PULP	POPLAR PULP	FIREWOOD	TOTAL HWD PRODUCTS	TOTAL SOFTWOOD PRODUCTS	% OF HWD	% OF SOFTWOOD	TOTAL VOLUME	TOTAL CORDS	CORDS/PER ACRE
1018	123				594.184							144.028	1202.828		1346.856	594.184	69%	31%	1941.040	401.41	3.26
1024	52			8.875	893.240			0.355			16.750	168.160	1739.836		1925.101	902.115	68%	32%	2827.216	585.49	11.26
6018	43			5.610	241.820		16.475				27.050	32.020			59.070	263.905	18%	82%	322.975	70.5	1.64
6020	33			81.362	407.580		16.475	13.450			52.275	297.060	124.660		487.445	505.417	49%	51%	992.862	209.8	6.36
6024	30	32.475	5.216	33.514	860.120		27.767				245.585	651.560	6.578		931.490	931.325	50%	50%	1862.815	393.3	13.11
6027	32	53.950		143.310	1689.040		507.220	0.515	1.185		15.700	131.480	129.660		278.540	2393.520	10%	90%	2672.060	587.6	18.36
6029	37	27.200		92.061	1036.460		32.950	1.358	2.370		41.490	398.900	58.636		502.754	1188.671	30%	70%	1691.425	364.7	9.86
7002	12				405.200			3.960			24.550	286.230	77.360		392.100	405.200	49%	51%	797.300	168.5	14.04
7006	60			9.350	565.590		86.970					534.400	227.740		762.140	661.910	54%	46%	1424.050	299.5	4.99
7011	78			15.115	407.380							136.300	457.265		593.565	422.495	58%	42%	1016.060	212.6	2.73
7012	36			59.997	368.100		201.770				7.463	376.790	394.535		778.788	629.867	55%	45%	1408.655	295.7	8.21
7015	17	27.200			510.250			0.515	1.185		15.700	359.950			377.350	537.450	41%	59%	914.800	194.9	11.46
7017	16				102.780							287.500			287.500	102.780	74%	26%	390.280	80.3	5.02
7018	47	20.325	46.944	13.012	1214.707	22.447		6.960	4.100		31.794	717.840			760.694	1317.435	37%	63%	2078.129	444.9	9.47
7022	17				207.780			12.770			95.950	343.780			452.500	207.780	69%	31%	660.280	136.7	8.04
8003	66			15.115	1123.836				2.730		16.000	509.384	577.550		1105.664	1138.951	49%	51%	2244.615	474.2	7.19
10001	31			11.976	538.043			2.850	2.730		65.550	179.080			250.210	550.019	31%	69%	800.229	172.3	5.56
10002	23				352.702		31.065					121.512			121.512	383.767	24%	76%	505.279	109.6	4.76
10007	20			6.407	875.442			1.240			11.240	61.500			73.980	881.849	8%	92%	955.829	210.8	10.54
10009	37				1304.172		10.355				23.000	112.086			135.086	1314.527	9%	91%	1449.613	319.1	8.63
10010	37				990.060							260.610			260.610	990.060	21%	79%	1250.670	272.1	7.36
10014	15				217.195							43.344			43.344	217.195	17%	83%	260.539	56.9	3.80
11018	43	63.099		13.012	1636.614	78.393		3.000			7.244	1211.200			1221.444	1791.118	41%	59%	3012.562	642.3	14.94
11102	21				390.200							522.240			522.240	390.200	57%	43%	912.440	191.2	9.10
TOT.PRO.	224.249	52.160	508.716	16932.495	100.840	903.280	74.740	14.300	0.000	697.341	7886.954	4996.648	0.000	0.000	TOT.VOL.	32391.723					
%TOTAL	0.7%	0.2%	1.6%	52.3%	0.3%	2.8%	0.2%	0.0%	0.0%	2.2%	24.3%	15.4%	0.0%	0.0%							
															HWD	SOFT					
															TOT. HWD/SOFTWOOD	13669.983	18721.740		TOT.CORDS	6894.4	
															BY %	42%	58%		AVERAGE/BLOCK	287.27	7.44
ROW	25	97.525			1547.057	94.700		4.96			44.960	961.176	1078.312		2089.408	1739.282			3828.690	804.4	32.18
%TOTAL	2.5%	0.0%	0.0%	40.4%	2.5%	0.0%	0.1%	0.0%	0.0%	1.2%	25.1%	28.2%	0.0%	0.0%	54.6%	45.4%					
SAL					272.080										0.000	272.080			272.080	60.5	
															0%	100%					
TOT.PRO.	321.774	52.160	508.716	18751.632	195.540	903.280	79.700	14.300	0.000	742.301	8848.130	6074.960	0.000	0.000	TOT.VOL.	36492.493					
BLOCK ACRES	926.10														HWD	SOFT					
TOTAL ACRES	951.10														TOT. HWD/SOFTWOOD	15759.391	20733.102		TOT.CORDS	7759.2	
															BY %	43%	57%		CDS/ACRE	8.1582	9.61

Solomon Forestry Management A
Wood Products Harvest Summary FY 99
Total Production

PRODUCT	VOLUME IN M-LBS	%GRP %TOT	GROSS REVENUE (\$)	%GRP %TOT	SERVICE COSTS (\$)	%GRP %TOT	NET REVENUE (\$)	%GRP %TOT
Hemlock Sawlogs	0.000	0%	0.000	0%	0.000	0%	0.00	0%
Pine Sawlogs	508.742	3%	19,120.810	3%	8,714.057	3%	10,406.25	4%
Spruce/Fir Sawlogs	18,751.630	96%	542,846.870	96%	318,491.209	96%	224,355.66	95%
Cedar Sawlogs	321.779	2%	5,558.810	1%	5,326.629	2%	232.18	0%
TOTAL SFTWD LOGS	19,582.151	54%	567,526.99	71%	332,531.89	54%	234,994.10	132%
Spruce/Fir Studwood	0.000		0.000		0.000		0.00	
TOTAL STUDWOOD	0.000	0%	0.00	0%	0.00	0%	0.00	0%
Pine Pulpwood	903.280	78%	11,065.180	77%	14,723.460	77%	-3,658.28	78%
Hemlock Pulpwood	247.700	22%	3,392.840	23%	4,422.161	23%	-1,029.32	22%
TOTAL SFTWD PULPWOOD	1,150.980	3%	14,458.02	2%	19,145.62	3%	-4687.60	-3%
TOTAL SFTWD PRODUCTS	20,733.131	57%	581,984.01	73%	351,677.51	57%	230,306.50	130%
Hardwood Sawlogs	745.150	89%	19,241.510	73%	13,164.452	89%	6,077.06	53%
Poplar Sawlogs	0.000	0%	0.000	0%	0.000	0%	0.00	0%
Birch Veneer	76.850	9%	6,543.530	25%	1,389.566	9%	5,153.96	45%
Poplar Veneer	14.300	2%	568.500	2%	243.398	2%	325.10	3%
TOTAL HRDWD LOGS	836.300	2%	26,353.54	3%	14,797.42	2%	11,556.12	7%
Poplar Pulpwood	6,074.960	41%	81,964.370	43%	99,216.331	39%	-17,251.96	0%
Mixed Hardwood Pulpwood	8,848.133	59%	107,703.087	57%	154,623.527	61%	-46,920.44	1%
TOTAL HRDWD PULPWOOD	14,923.093	41%	189,667.46	24%	253,839.86	41%	-64,172.40	-36%
TOTAL HRDWD PRODUCTS	15,759.393	43%	216,021.00	27%	268,637.27	43%	-52,616.28	-30%
TOTAL ALL GROUPS	36,492.524		\$798,005.01		\$620,314.79		\$177,690.22	
REVENUE PER M-LBS			\$21.87		\$17.00		\$4.87	

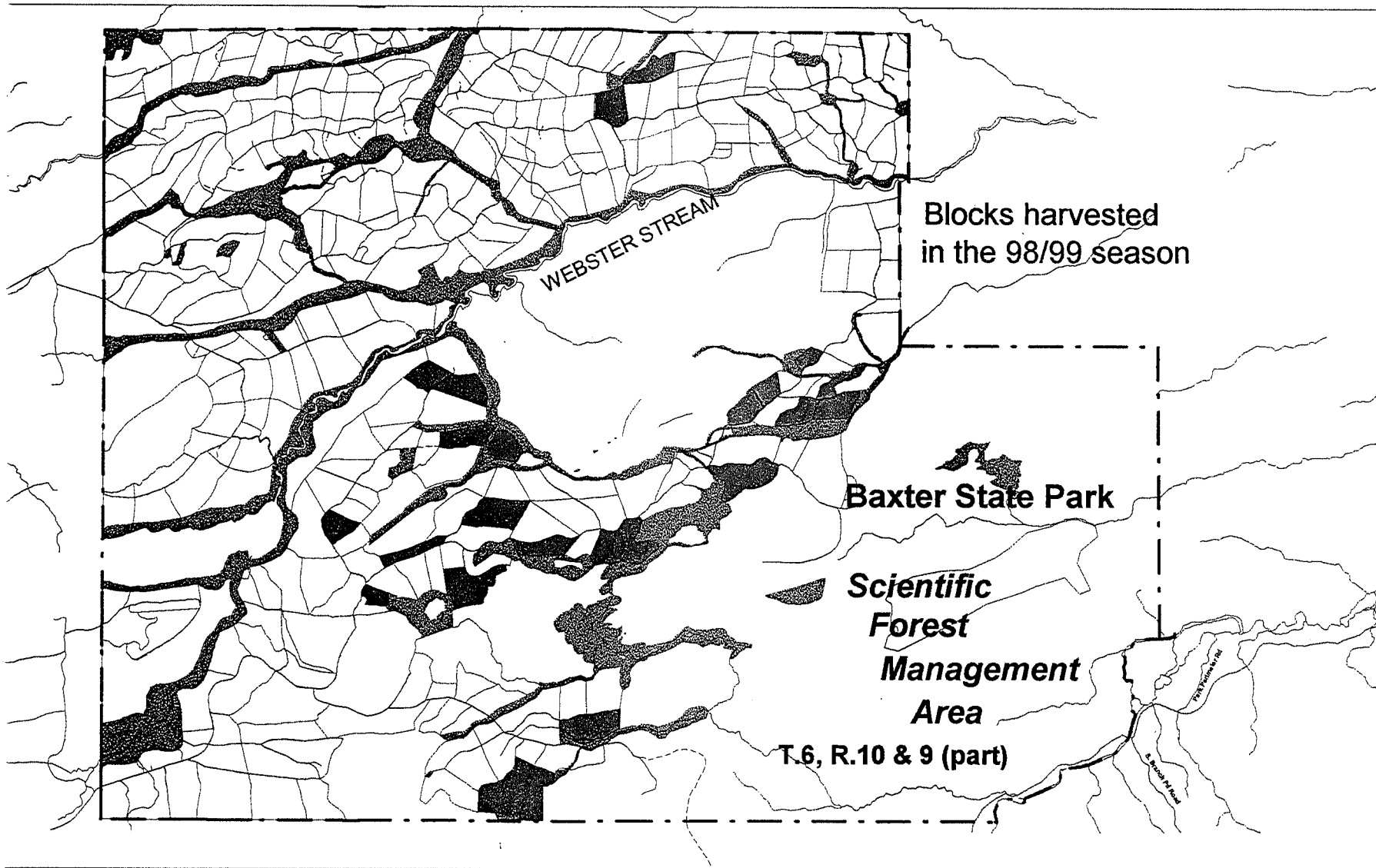
Scientific Forest Management Area
Wood Products Harvest Summary FY 99
Valmet Chainsaw Production Only

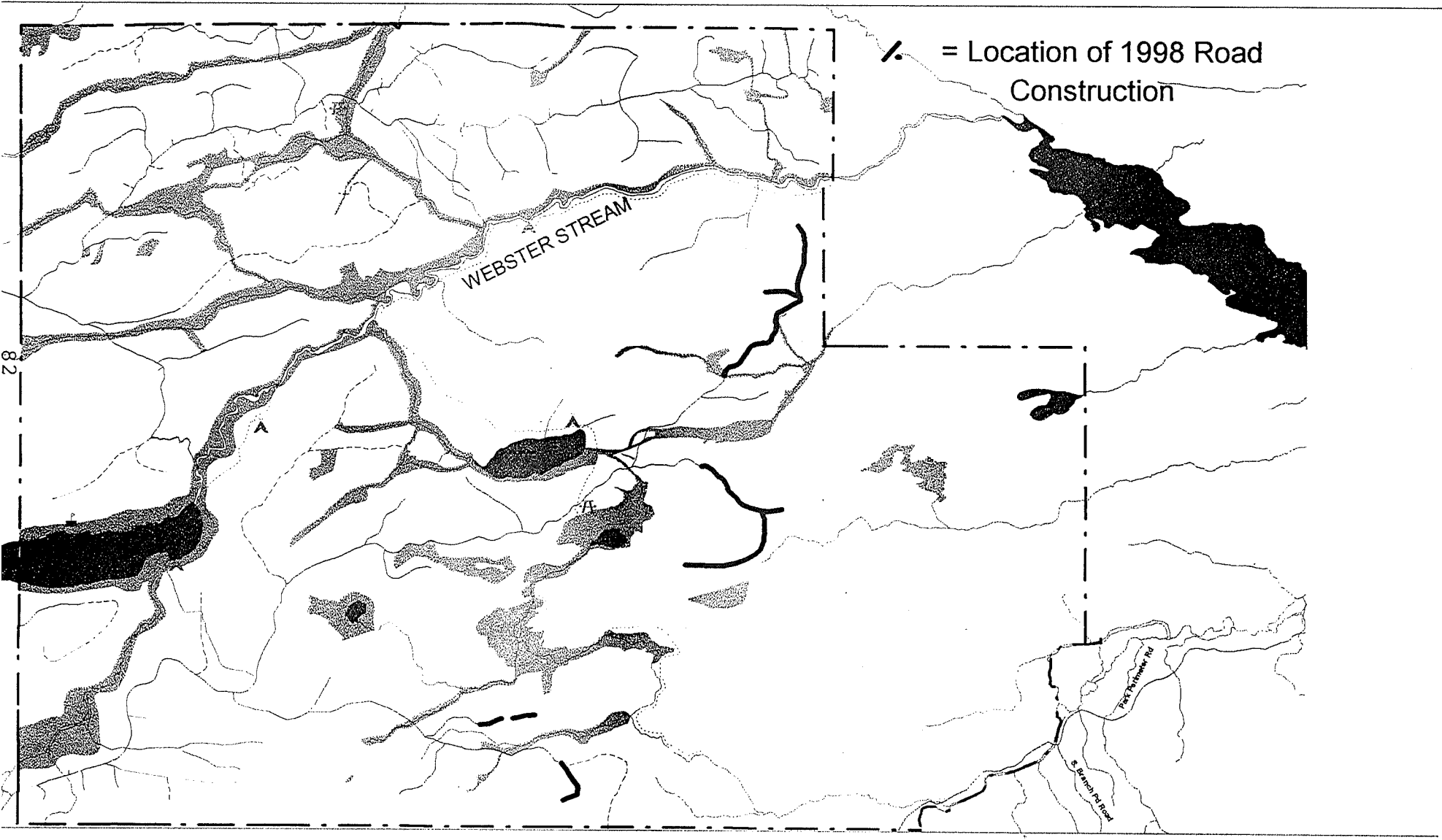
PRODUCT	VOLUME IN M-LBS	%GRP %TOT	GROSS REVENUE (\$)	%GRP %TOT	SERVICE COSTS (\$)	%GRP %TOT	NET REVENUE (\$)	%GRP %TOT
Hemlock Sawlogs	0.000	0%	0.00	0%	0.00	0%	0.00	0%
Pine Sawlogs	167.684	3%	7,068.72	5%	3,154.82	3%	3,913.90	7%
Spruce/Fir Sawlogs	5,107.140	96%	146,892.20	95%	96,086.04	96%	50,806.16	93%
Cedar Sawlogs	32.480	1%	585.52	0%	611.06	1%	-25.54	0%
TOTAL SFTWD LOGS	5,307.304	99%	154,546.44	99%	99,851.91	99%	54,694.53	96%
Spruce/Fir Studwood	0.000	#DIV/0!	0.00	#DIV/0!	0.00		0.00	
TOTAL STUDWOOD	0.000	0%	0.00	0%	0.00	0%	0.00	0%
Pine Pulpwood	0.000	0%	0.00	0%	0.00	0%	0.00	0%
Hemlock Pulpwood	153.000	100%	2,090.71	100%	2,878.55	100%	-787.84	100%
TOTAL SFTWD PULPWOOD	153.000	2%	2,090.71	1%	2,878.55	2%	-787.84	-2%
TOTAL SFTWD PRODUCTS	5,460.304	99%	156,637.15	99%	102,730.46	99%	53,906.69	96%
Hardwood Sawlogs	405.122	87%	10,317.77	65%	7,621.99	87%	2,695.78	38%
Poplar Sawlogs	0.000	0%	0.00	0%	0.00	0%	0.00	0%
Birch Veneer	54.457	12%	5,423.34	34%	1,024.56	12%	4,398.78	62%
Poplar Veneer	4.100	1%	53.30	0%	77.14	1%	-23.84	0%
TOTAL HRDWD LOGS	463.679	8%	15,794.41	7%	8,723.69	8%	7,070.72	21%
Poplar Pulpwood	77.360	2%	1,052.10	2%	1,455.45	2%	-403.35	0%
Mixed Hardwood Pulpwood	4,136.330	98%	50,219.09	98%	77,821.14	98%	-27,602.05	1%
TOTAL HRDWD PULPWOOD	4,213.690	99%	51,271.19	99%	79,276.59	99%	-28,005.40	-1%
TOTAL HRDWD PRODUCTS	4,677.369	87%	67,065.60	67%	88,000.27	87%	-20,934.67	-13%
TOTAL ALL GROUPS	10,137.673		\$223,702.75		\$190,730.74		\$32,972.01	
REVENUE PER M-LBS			\$22.07		\$18.81		\$3.25	

* Service Costs include \$146,125 per diem costs for cutting/yarding

Sc 6 Fo Van ant
 Wood Products Harvest Summary FY 99
 Single-Grp Production Only

PRODUCT	VOLUME IN M-LBS	%GRP %TOT	GROSS REVENUE (\$)	%GRP %TOT	SERVICE COSTS (\$)	%GRP %TOT	NET REVENUE (\$)	%GRP %TOT
Hemlock Sawlogs	0.000	0%	0.00	0%	0.00	0%	0.00	0%
Pine Sawlogs	341.058	2%	12,051.59	3%	5,559.24	2%	6,492.35	4%
Spruce/Fir Sawlogs	13,644.490	96%	395,954.67	96%	222,405.17	96%	173,549.50	96%
Cedar Sawlogs	289.299	2%	4,973.29	1%	4,715.57	2%	257.72	0%
TOTAL SFTWD LOGS	14,274.847	54%	412,979.55	72%	232,679.98	54%	180,299.57	125%
Spruce/Fir Studwood	0.000		0.00		0.00		0.00	
TOTAL STUDWOOD	0.000	0%	0.00	0%	0.00	0%	0.00	0%
Pine Pulpwood	903.280	91%	11,065.18	89%	14,723.46	91%	-3,658.28	94%
Hemlock Pulpwood	94.700	9%	1,302.13	11%	1,543.61	9%	-241.48	6%
TOTAL SFTWD PULPWOOD	997.980	4%	12,367.31	2%	16,267.07	4%	-3,809.76	-3%
TOTAL SFTWD PRODUCTS	15,272.827	58%	425,346.86	74%	248,947.05	58%	176,399.81	122%
Hardwood Sawlogs	340.028	91%	8,923.74	85%	5,542.46	91%	3,381.28	75%
Poplar Sawlogs	0.000	0%	0.00	0%	0.00	0%	0.00	0%
Birch Veneer	22.393	6%	1,120.19	11%	365.01	6%	755.18	17%
Poplar Veneer	10.200	3%	515.20	5%	166.26	3%	348.94	3%
TOTAL HRDWD LOGS	372.621	1%	10,559.13	2%	6,073.73	1%	4,485.40	3%
Poplar Pulpwood	5,997.600	56%	80,912.27	58%	97,760.88	56%	-16,848.61	0%
Mixed Hardwood Pulpwood	4,711.803	44%	57,484.00	42%	76,802.39	44%	-19,318.39	1%
TOTAL HRDWD PULPWOOD	10,709.403	41%	138,396.27	24%	174,563.27	41%	-36,167.00	-25%
TOTAL HRDWD PRODUCTS	11,082.024	42%	148,955.40	26%	180,687.00	42%	-31,681.60	-22%
TOTAL SINGLE-GRIP	26,354.851		\$574,302.26		\$429,584.05		\$144,718.21	
REVENUE PER M-LBS			\$21.79		\$16.30		\$15.49	



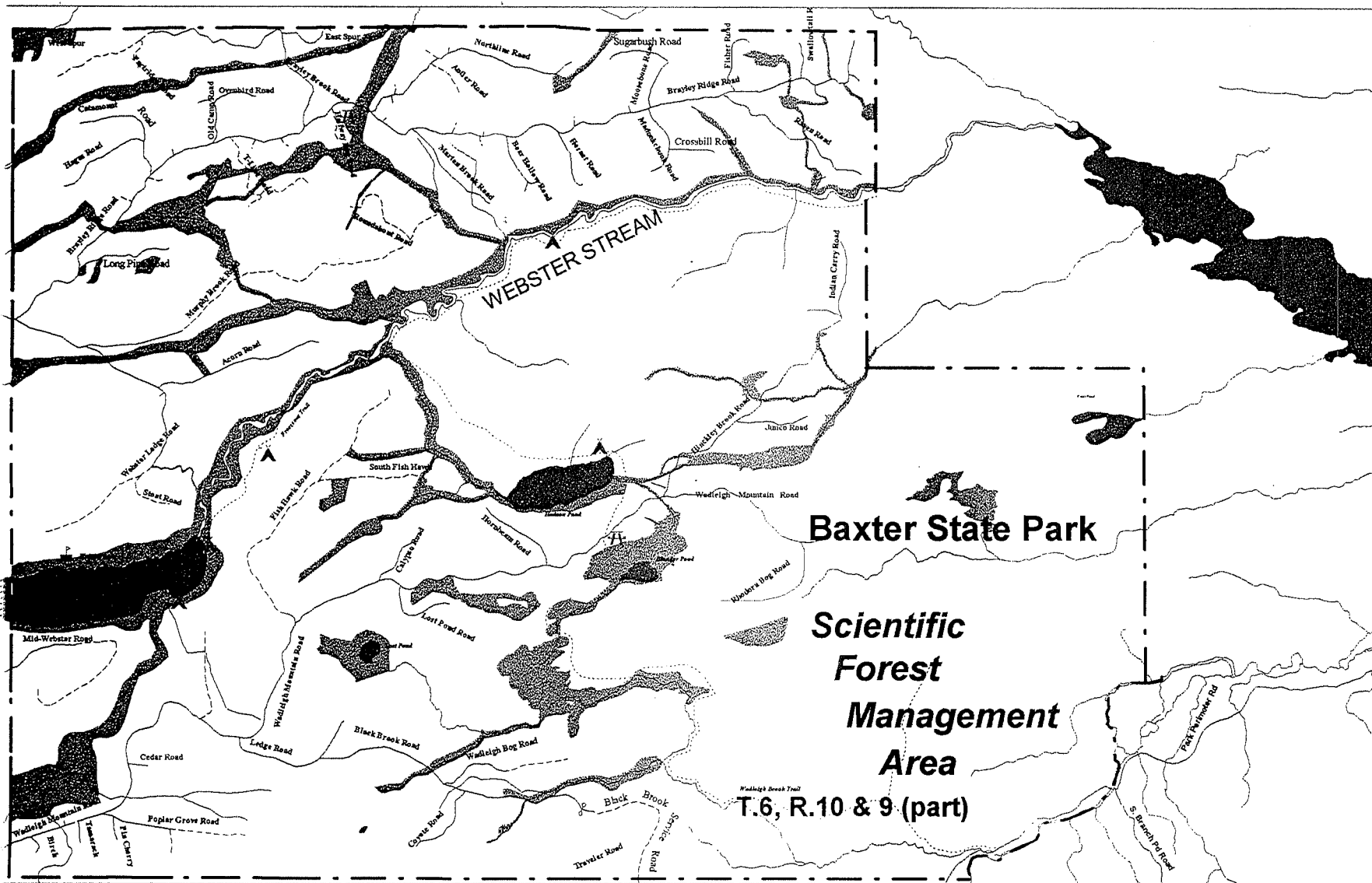


/ = Location of 1998 Road Construction

WEBSTER STREAM

82

S. Daniel Rd
Poplar Rd



D. INFORMATION/ EDUCATION



L to R: SCA Resource Assistant Amanda Jaros, Assistant Naturalist Ann Loyd

1998 ANNUAL REPORT
INFORMATION / EDUCATION

I Outreach Programs

As in past years, the Director continues to allocate a portion of the Naturalist's time to various outreach programs, as requested by citizens and groups in the state. These programs are always provided at no charge as part of our ongoing commitment to educating the public about the Park's mandate and natural resources. Each year we find ourselves standing before familiar faces as well as many new groups and organizations learning about the park for the first time. Below is a sampling of the types of groups and talks offered by the Naturalist in 1998:

University of Southern Maine - "Wildflowers of Maine"
Pine Tree Arboretum - "Plants and Habitats of Baxter State Park"
Hichborn Middle School (Howland) - "Introduction to the Natural History of BSP"
Hibbard Nursing Home - "Scenes From Baxter State Park thru Four Seasons"
Houlton Girl Scout Troop - "Preparing for a Backcountry Hiking/Camping Trip to Baxter State Park"
Millinocket Middle School Science Camp - "Plant I.D. and Conservation"
California University (Pennsylvania) - "Wildlife Issues in BSP"
Orrington Center Drive School - "Preparing for a Day Hike in BSP"
Granite Street School (Millinocket) Volunteer Appreciation Tea - "BSP Natural Resources and Conservation"
Lincoln Girl Scouts Field Trip in BSP - "Focus on Trip Planning and Safety"*
Becoming an Outdoor Woman Conference - "Beginner Backpacking"* & "Backcountry Botany"
Hogdon Middle School - "Introduction to Baxter State Park"*
Katahdin Junior High School (Sherman) - "Ethnobotany"
Patten United Methodist Women's Club - "Scenes From a Year in Baxter State Park"
W.I.S.D.U.M. Support Group (Augusta) - "Planning a Group Hiking/Camping Trip to Chimney Pond"

This year, our programs enjoyed an added boost from Naturalist Assist. Ann Loyd and SCA Resource Assist. Amanda Jaros. Both contributed to the summer evening program series and assisted with several outreach efforts (note the asterisks above). In addition to our full slate of mid-week evening programs during the summer, Amanda led a selection of children's activities throughout the summer.

"Other" Outreach

"Huey" Coleman is currently filming a comprehensive full-length documentary on Katahdin, including geologic origin, Native American symbolism, and modern-day management of the mountain by Baxter State Park. During the summer of 1998, he worked with his film crew to obtain much of the necessary footage, as well as interview various BSP employees and volunteers, including park administrators. His project will

continue through the winter of 1998-99 and into the summer of 1999 before all the necessary footage will be complete and ready for editing.

On three days during the course of the summer the BSP Naturalist, Naturalist Assist. and SCA Resource Assist. accompanied a photographer and writer on assignment from *Down East* Magazine to various sites in the Park. Other contacts include working with Rand McNally, DeLorme, National Geographic and numerous other large and small publications requesting assistance with written projects concerning Baxter State Park. Jean Hoekwater also was an invited guest for a segment of Wiggie Robinson and Paul Reynold's Sunday evening "Maine Outdoors" radio program. The same program has featured Park Director Caverly and Chief Ranger Chris Drew several times in recent years.

Summer Program Series

A summer program schedule is included in the Appendix with this section. We experimented with an expanded selection of offerings this year, including some new and different programs proposed by park users or park staff in recent years. In addition to popular regulars such as volunteer Jane Thomas (*Chimney Pond Tales*) and park staff, we invited several other individuals to share their expertise and interest with our visitors, including Bill Silliker, John Glowa, John Bear Mitchell, John Neff, Mark McCollough and Cathy Elliott. We enjoyed excellent attendance at most programs and received many compliments throughout the season. The limiting factor in our ability to continue to offer this program diversity is two-fold: the program series depends on individuals willing to share their subject matter with no financial compensation and, presenters from outside our immediate geographical area need a place to stay overnight after the evening program is finished. Although available overnight accommodations for speakers are limited, we can probably continue to support this modest expansion of the summer program series with very little difficulty in the upcoming seasons.



John Glowa demonstrates a wolf howl at a Daicey Pond evening program

Children's Programs

In 1997, we did not obtain an SCA Resource Assist. and the children's programming did not happen that summer. For that reason, it is especially pleasing to report that the Park hosted 7 children's programs in the summer of 1998. SCA Resource Assist. Amanda Jaros designed, scheduled and presented each program with guidance and supervision from Naturalist Assist. Ann Loyd. Amanda was given free rein to experiment with the timing of the programs as well as the choice of topics. Her chosen program topics were: "The Truth About Trees", "Who's Afraid of the Big, Bad Bug?", "Exploration Day", "Adaptable Animals", "What's for Lunch?", "Nature Notes", and "Habitat Hike". After experimenting with different days, she concluded that our traditional scheduling on Sat. mornings resulted in the most consistent attendance. She had a great time developing her environmental education skills and the children and families participating learned about the natural resources of Baxter State Park. She left behind an insightful journal of her teaching plans, participant responses and planning suggestions for the next SCA Resource Assistant working with children's programming in Baxter.

II Projects

The Park History

The BSP history, *In the Deeds We Trust*, covering the years of 1970-1995, a sequel to *Legacy of a Lifetime*, is nearing publication. The final editing and manuscript preparation tasks have fallen chiefly upon the able shoulders of BSP Advisory member Ed Dwyer. Working with the BSP Naturalist, suitable photos have been located and chosen to illustrate the volume. Although there have been numerous obstacles on the way to final production, it has been both an education and a privileged opportunity for the Naturalist to work with the historical issues and the dedicated individuals involved in this project.

Women in Non-Traditional Careers in Maine State Gov't.

Throughout the early part of 1998, the Naturalist attended numerous conference steering committee meetings to help plan the content and format of the first conference for Women in Non-Traditional Careers in the state system. As outlined in the 1997 annual report, the steering committee working under the direction of Laurel Shippee, State Affirmative Action Coordinator from the Bureau of Human Resources, consisted of a wide-ranging group of individuals with plenty of enthusiasm for the task. One of the first tasks was to determine which positions in state government were, in fact, non-traditional. The multi-month process of contacting and registering women throughout all state agencies and planning for the event culminated in a 1-day session at Jeff's Catering in Brewer. The format included a morning keynote speaker and afternoon panel of women in high-level positions in Maine State government. Nearly 150 women attended and evaluations were very favorable for this first-time effort. Though it required time spent away from the Park environment, it speaks well of the Park's commitment to follow through on our stated intent for equal job opportunities within park ranks. In addition to

BSP staff time during the planning stages six out of the seven positions within BSP identified as "eligible to attend" were present. This was excellent representation from so small an agency.

Appalachian Trail Hiking Brochure

The 1997 Annual Report mentioned a brochure draft that was being designed to be used in packets mailed by the Appalachian Trail Conference to Appalachian Trail hikers planning their odyssey. As sometimes happens with such joint projects, the draft went through several more revisions before heading to the printer. Another season of experience with the growing use of the A.T. corridor confirmed our information gaps and the need for adjustments of park policy and park coverage. At the time of this writing, the brochure is now available for distribution through Park locations, the A.T.C. Headquarters in Harper's Ferry and hostels along the A.T. M.A.T.C. President John Neff, A.T.C. Information Coordinator Laurie Pottieger and A.T.C. Regional Representative Kevin Petersen have all been generous with their time and help in this project. Jane Thomas, long-time friend of the Park donated the beautiful drawings of animal, plant and landscapes that illustrate the brochure.

B.O.W. Workshops

This year's "Becoming an Outdoor Woman" conference was held in September at Bishopswood near Camden. Both the Naturalist and Assistant Naturalist represented Baxter State Park in the teaching of courses, "Beginning Backpacking" and "Backcountry Botany" as well as making informal contacts throughout the session.

Leave-No-Trace-Video

In 1998, Charlie Jacobi of Acadia National Park contacted Baxter State Park Director Caverly to enlist our agency's participation in the creation of a video on using Low Impact Techniques in the Maine outdoors. Charlie Jacobi of Acadia National Park, Steve Spencer of Maine Bureau of Public Lands and Jean Hoekwater from Baxter State Park began meeting to explore the possibilities. By late fall 1998, Annie Getchell of Camden, from the "Anyplace Wild" TV series was also involved and facilitating contacts between LNT's national office in Colorado and Charlie Jacobi. A professionally designed and produced video will require considerable funding assistance above and beyond the amount the three agencies can contribute, hence, a collaborative relationship and support from the national LNT Headquarters is especially important. The next year will be spent refining the proposal and learning about the needs of various agencies and landowners responsible for popular recreation areas in the state. The project offers any opportunity to join a diverse group of land owners/managers across Maine in promoting a common ethic of sensitive and wise recreational use of Maine's resources. Perhaps someday, knowledge and practice of Leave-No-Trace principles will become as commonplace as the current familiarity with the Carry In/Carry Out philosophy.

Field Trip Highlights

This year was highlighted by numerous field trip opportunities. The month of January and March included Chimney Pond days-off coverage duty. In early May, Park

staff toured the new West Branch lands with Advisory members and later, following the BSPA meeting on May 8, with several interested citizens. June included two separate trips to monitor high elevation bird populations. Early July, one of two trips scheduled to monitor the Katahdin Arctic butterfly population on Katahdin was successful (the second trip was cancelled due to bad weather). Mid-month, a Forest Society of Maine board retreat included a tour of Public Land's Duck Lake Unit and a trip around Nicauous Lake to look at the recreational and natural resource. Also in mid-July, Director Caverly, Resource Manager Jensen Bissell and the Park Naturalist hiked the A.T. from Daicey Pond to Abol Bridge with a reporter from the Moosehead Messenger. In late July, Jean and Ann hiked and checked on several areas of special interest on the Park's north end with Andrew Vietze, a writer from *Down East* magazine. August included follow-up field time with photographer Richard Procopio again to some sights and locations in the northern part of the park. In November, there was time to hike the West Branch lands and the A.T. along Nesowadnehunk Stream, to admire and photograph the new footbridges installed during the summer months. The Naturalist also hiked the newly-flagged Round Pond Trail with the Trails Supervisor and Park Director. In addition to these special trips throughout the season, outside duties were numerous and welcome, whether they entailed a day on snowmobile with MSA president and long-time Park friend Lew Newell, a day locating and confirming certain plant species or a morning seeding the banks of the footbridge construction site on Abol Stream.



Revegetation crew from right to left: BSP Forest Tech, Mac Browning, BSP Ranger I Charlie Kenney and landscapers on banks of Abol Stream following revegetation efforts with coconut mats and logs and native shrubs.

III Training and Exchange Opportunities

On June 9-10, the Naturalist and SCA Resource Assist. Amanda Jaros attended the 2-day S.O.L.O. Wilderness First Responder Course. This well-taught course is offered to incoming and permanent staff each year and provides an excellent refresher on 1st aid basics. The course began one day after Amanda arrived for the summer, hence, this gave her a good chance to discuss job responsibilities and initiate contacts with rangers from all various locations in the Park.

In April, Park Director Caverly, Resource Manager Jensen Bissell and Naturalist Jean Hoekwater represented Baxter State Park at the final conference of the Maine Forest Biodiversity Project. It was held at the Birch's Resort on Moosehead Lake in Rockwood. Each conference of this group was a gathering of widely diverse stakeholders in the future of Maine's forest resource. Meeting during the heated months surrounding and following Maine's forest referendum vote, the group attempted and generally succeeded in setting a standard for courteous debate and constructive consensus while discussing issues critical to Maine's future. While the Park was not as deeply involved as many entities, the Project nevertheless initiated contacts we might otherwise not have achieved and paved the way for more holistic understanding of the issues that will be the key to meeting many of the upcoming land use challenges.

In October, the Park sponsored the BSP Naturalist at the Natural Areas Association Annual Conference, "Planning for the Seventh Generation" on Mackinac Island in Michigan. The Natural Areas Association held their 1992 annual conference in Maine during which overnight and day trips in Baxter introduced land managers and resource specialists from all over the U.S. to Baxter's resources. The 1998 conference theme was an opportunity to come together to consider the future of natural areas, and their role in conservation planning and sustainable development. Development pressures which threaten ecologically and globally significant natural communities and species were discussed as were trends and risks inherent in ecotourism. Twenty-minute concurrent sessions over the course of two days offered a dizzying array of instructive sessions. Among the topics: baseline monitoring, regional landscape planning, a review of two park's General Management Plans and Ecosystem Management Plans, migrant landbird study, North American Indian environmental issues, amphibian monitoring, and exotic and invasive plant species. A day-long field trip and an in-depth pre-conference visit to another park gave participants on- the-ground exposure to policy and program concerns with practical applications for our own workplaces.

While it wasn't a scheduled training opportunity, a presentation by fishery biologist Nels Kramer, Gene Arsenault and Mike Smith of the Maine I.F. & W.'s Enfield office was an informative "bonus" at the end of the year. As a courtesy to local fishermen concerned about the Department's efforts at Nesowadnehunk Lake, the biologists offered the evening lecture/slide show and provided handouts explaining their work. They gave a thorough explanation of problems on raising trout in hatcheries for stocking and some of the solutions that are being sought through the incorporation of wild trout genetic

material in the captive-breeding program. In addition to satisfying the questions of the local fishermen attending, BSP staff attending gained a better overall understanding of I. F. & W.'s activities at Camp Phoenix on Nesowadnehunk Lake each fall. The park was pleased to be able to host the biologist's presentation in our new conference room at our Millinocket Headquarters Building.

IV Meetings/Committees

In 1998, the Naturalist's calendar included a full component of meetings, both routine and special assignments. Routinely scheduled meetings include all the BSP Authority and Advisory meetings as well as the June and December Director's Communications meetings. Special assignments include the Park Use Committee, the Director's Research Committee and the Winter Regulations Committee.

The Park Use Committee met in early February to develop incremental educating/enforcement steps to supplement the parking policy statement distributed during the last three summers. A special guest attending was Charlie Jacobi, Visitor Services Specialist from Acadia National Park. Steps proposed and implemented include: a (numbered, carbon-copied) courtesy ticket that can be used to track repeat offenders and a vehicle restraining device for serious violations. The V.R.D. is only used with the approval of the Chief Ranger or a BSP Ranger II.

The Winter Regulation committee, chaired by Advisory member Ben Townsend, is an outgrowth of discussions prompted by the Cothalis incident on Abol Slide in January of '98. BSP Chief Ranger Chris Drew and BSP Naturalist Jean Hoekwater attended meetings in May, June, July, September and November to provide staff input to members of this group which included veteran climbers and guides as well as BSP Advisory members. The committee will generate a new version of the winter information packet for the Director's consideration, suggested wording for mandatory and optimal equipment and a streamlined application for winter use of the Park.

The Director's Research Committee met to vote on research proposals April 17 and met for a field season wrap-up on September 22. (See "Research" section)

V Naturalist Assistant Position

In early April, we interviewed candidates for the newly-created Assistant Naturalist position. This 18-week position represents an opportunity to hire a knowledgeable, experienced seasonal staff person for the info/education program and compensate them with wages and benefits comparable to other BSP jobs. For successful SCA Resource Assistants working with the naturalist, the position also represents an opportunity to advance the following summer, if they compete successfully for the position. In 1998, due to the structure of the fiscal year, we were only able to fund the position for 12 weeks but in 1999 it will run for the full 18 weeks. The successful candidate in '98 was Ann Loyd of Harpswell, Maine. She worked under contract for the Naturalist in 1992 and gained field experience as well as a Master's Degree in the time

following her 1992 BSP stint. The information/education program was well served by the addition of knowledgeable staff in the Assistant position. Ann was the direct supervisor of our SCA Resource Assist. Amanda Jaros and worked closely on children's program, coverage for the Visitor Information Center and alpine steward work with Amanda. Ann also helped design the first High Elevation Bird Monitoring route in the park and her expertise in identifying bird calls was invaluable. She and Amanda ran the 1998 Loon Count and Ann compiled the results. Ann also spent time studying office files and produced a concise list of Katahdin plants of special concern, threatened and endangered status, with all the most recent changes in Latin nomenclature. She oversaw Amanda's individual project of a bulletin board at Katahdin Stream Campground, addressing the primary concerns of hikers and the overriding environmental impact issues identified by CRI Bruce White. Ann's position scheduled necessary coverage at the V.I.C. during Nancy Moxley's days off in addition to providing coverage and assistance herself as necessary. We are thankful for the groundwork Ann has laid in this important first season for the Assistant Naturalist position to further the information/education work at Baxter. At the time of this writing, Ann has informed the Park of her decision to move on in the field of resource education; she is currently employed as an adjunct professor at the University of Alaska, where she relocated in late September '98.

VI Visitor Information Center

In 1998, the Togue Pond Visitor Center entered its 5th season with able staff member Nancy Moxley at the helm. Nancy has been a cheerful face and source of trip information for thousands of Park visitors over her 3 seasons in the center. Each person or family stopping by the center is encouraged to ask questions and familiarize themselves with routes and plans before they proceed up to the gatehouse. Clerk Typist II Jean Howes has provided invaluable assistance at the beginning and end of each season as well as during Nancy's days off during the season. Nancy and Jean also meticulously train the SCA Resource Assist. and Naturalist Assist. regarding procedures and policies during days off coverage. Though we currently have only one shift, 7-3 PM, the V.I.C. accomplishes as much visitor education as possible within these hours. Visitor Information Center stats are included in the Appendix to this section.

VII 1998 Research

The Director's Research Committee met on Friday April 17 to consider research proposals for the '98 field season. Proposals included a study on lichens (Steve Selva), a study of alpine plant communities (Appalachian Mountain Club), a study of mycophagous fly communities (Wade Worthen), and a study of competition for food between splake and landlocked salmon (Thomas Hoffman). The proposals were considered and all were approved for 1998 with the exception of the study on mycophagous flies, which was denied based on study opportunities being available elsewhere.

In the Appendix to this report, the complete project report of Steve Selva's lichen survey is included, a progress report on the alpine plant communities study and the splake-landlocked salmon study is included.

The fall meeting of the D.R.C. was a departure from our standard overnight/field trip format. We had a brief meeting 10- noon and invited Doug Weihrauch of the A.M.C. research team to discuss the work they did mapping plant communities on Katahdin. The A.M.C. team of vegetation mappers certainly logged a great many field hours in their efforts. They fit in well using the crew facilities at Chimney Pond and even participated in a litter carry on Katahdin at one point during their field season!

The Director's Research Committee remains a source of expertise and support for park management as we work to uphold the park's policies while permitting appropriate research projects to occur within the confines of the Park.

VIII Resource Monitoring Updates

High Elevation Bird Monitoring

On June 11, 12 and 19, Assist Naturalist Ann Loyd and Naturalist Jean Hoekwater conducted bird counts at 8 stations along a survey route from Chimney Pond to the Tableland. The cooperative High Elevation Bird Monitoring Program, coordinated by Tom Hodgman of MDIFW, is designed to gather information on birds not routinely monitored in the annual roadside breeding bird census. (Note: MDIFW Lindsay Tudor's breeding bird survey results for the Horse Mt. route in BSP can be found in the Appendix to this section).

Survey protocol used statewide at various locations specifies a route above 1900' elevation with at least five sampling stations which are each sampled for 10 minutes on each survey date. On the Katahdin survey route we chose sampling sites along the route based on ease of recognition and created a photo record to refer to for future surveys. The Park is fortunate to have a component of high elevation terrain with accessible trails from which to carry out this type of survey. Lindsay Tudor initiated the same protocol on the Park's north end, leaving from South Branch campground and hiking up North Traveler. Results from both surveys are included in the Appendix to this section.

Katahdin Arctic Butterfly Survey

In recent years a need for more intentional monitoring of the Katahdin Arctic butterfly population has been apparent. In 1997 and again in 1998, the Naturalist made trailside counts during the courtship/breeding cycle of the butterfly. Because the butterflies seek shelter and don't fly during rainy weather and are difficult to find and count during high winds, counts must be conducted on days with clear skies and little wind, if possible. The weather-dependent nature of the survey limits opportunities but three dates will be set aside for the purposes of this count each season. In 1997, weather allowed the counts on two days. In 1998, weather allowed the count on one of the three days set aside for the purpose.

The hiking rail survey route leaves Chimney Pond via Saddle Trail, follows Saddle Trail to the Baxter Peak Cut-Off, passes Thoreau Spring and follows the Hunt

Trail/AT along the tableland to the edge of the plateau. Butterflies are not counted on the return trip, though it is usually possible to confirm the relative location of previously-counted territories on the return trip. This route is a reasonable route to cover early in the day during weather suitable for flights and it covers a good cross-section of available habitat. The numbers observed and reported are merely anecdotal; the nature and setting of the population makes conclusive results difficult to obtain. The Naturalist is seeking suggestions for ways to better accomplish monitoring of this species without violating Park policies.

1998 Loon Count

Volunteers submitted data for 11 ponds in Baxter State Park this season. The count was scheduled for Saturday, July 18, 7:00-7:30 a.m. and for the first time in several years weather conditions and visibility were good for the event. The following submitted forms: Dave Chase, Brendan Curran, Bud Delano, Bill Dreyer, Sara McBride, Christian McGinn, Neal Sleeper, Kyle Tenan, Bruce White and Marcia and Gabe Williamson. These results were compiled by Ann Loyd and sent to Maine Audubon.

RESULTS

AREA	# ADULTS LOONS SEEN	# OF LOON CHICKS SEEN	# KNOWN NESTS
Abol Pond	1	0	0
Big Rocky Pond	2	0	0
Celia Pond	0	0	0
Daicey Pond	0	0	0
Grassy Pond	1	0	0
Jackson Pond	0	0	0
Kidney Pond	1	2	1
Lily Pad Pond	1	0	0
Little Rocky Pond	0	0	0
Lost Pond	1	0	0
Tracy/Elbow Pond	<u>0</u>	<u>0</u>	<u>0</u>
	7	2	1

1998 Mountain Patrol

Each year, members of the Baxter State Park trail crew have done Mountain Patrol as one component of their SCA work experience. The goal of this rotating duty is to gather data documenting the social experience of visitors on Katahdin. CRI Greg Hamer and CA Frank Taylor and the individual trail crew members are people who make this program possible.

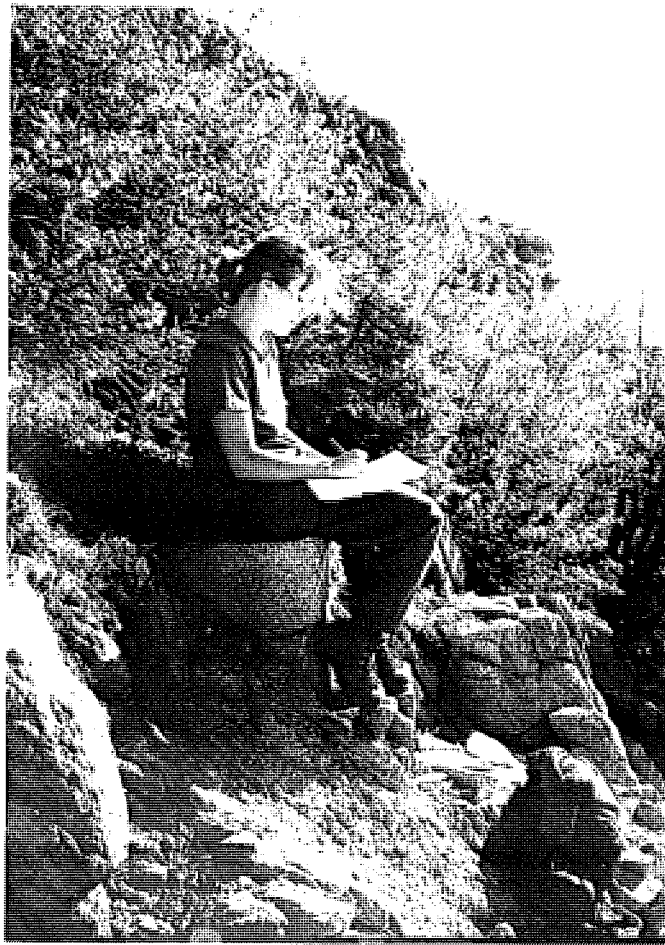
SCA Resource participating in Mountain Patrol in 1998 include:

Matthew Amadon	Ella L. Bredthauer	Jaime Brooks
Ji Sun Chong	Charis Drummer	Heather M. Horner
Kemp Houck	Ian Papendick	Adrienne Perry
Scott M. Sarantakis	Tim Stretton	Jenny Van Orman
Cassie Wyss		

In 1998, a total of 34 forms were turned in to the Naturalist. Due to trail maintenance needs elsewhere, mountain patrol counts were not done on Katahdin trails for most of July. Twenty of thirty-four patrols occurred on Class II days. The remaining 14 patrols occurred on Class I days when visibility and hiker use on Katahdin is higher. The total number of people encountered on a single patrol day, leaving for Chimney Pond campground and returning to Chimney Pond via marked trails, ranged from a low of 20 on a Class II day in September to 186 on a Class I day in late August. The average number of people met while patrolling for an entire day was 74 people. See Appendix for additional Mountain Patrol information.

1998 Peregrine Notes

The 1998 season started with favorable signs. Peregrines were seen at the former Horse Mt. Hack site and a nest may have been established on the ledges. However, June's impressive downpours this year resulted in nest abandonment for many of Maine's peregrines, including the Horse Mt. Pair. While the birds were observed near the cliffs all summer, nesting did not occur again and no reproduction took place at this site in 1998. The full season presence of the birds is a positive sign, according to MIF&W Biologist Charlie Todd so we look forward to the 1999 breeding season.

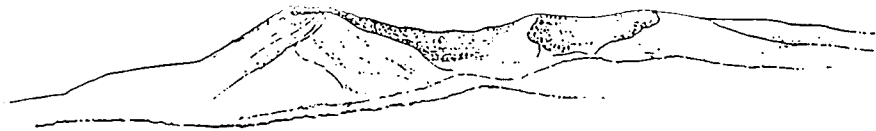


Ann Loyd, BSP Assistant Naturalist on Saddle Slide –
High Elevation Bird Monitoring



Station #1 – High Elevation Bird Monitoring, Chimney Pond Crew Camp

APPENDIX – INFORMATION/EDUCATION



1998 Summer Program Schedule

Unless otherwise noted, all evening programs are held at 7:00 P.M. at the campground library in the host campground. This schedule is subject to change due to circumstances beyond our control.

June 29 (Monday), Daicey Pond: "Chimney Pond Tales" by Jane Thomas.

Join writer and artist Jane Thomas as she tells the tall tales of legendary Katahdin guide Leroy Dudley and his impressive sidekick, Pamola.



July 1 (Wednesday), Kidney Pond: "Looney Tunes--And Facts!" by Bill Silliker.

During this program, Maine author and wildlife photographer Bill Silliker will share his tips for capturing Maine's yodeling North Woods resident on film. With any luck, our Kidney Pond loons will cooperate this evening with a guest appearance or two!

July 8 (Wednesday), Daicey Pond: "Wolves in Maine?" by John Glowa.

Explore some myths about wolves and learn about their natural role as predators in ecosystems during this evening discussion with John Glowa, of the Maine Wolf Coalition.

July 15 (Wednesday), Kidney Pond: "So-You Think You Want to be a Ranger. . .?" by Robert Howes.

Learn the "ins" and "outs" of rangers from year-round Baxter State Park Ranger Robert Howes. Find out if a lifetime of black flies, beautiful sunsets and close encounters with the wildlife and humans of Baxter State Park is your cup of tea!

July 22 (Wednesday), Daicey Pond: "Tales of the Mountain" by John Bear Mitchell

Penobscot Nation storyteller and musician John Bear Mitchell will share traditional tales of the Katahdin region in the shadow of the mountain! If it is a rainy evening, check with Headquarters or the gates for the rain date for this special evening of outdoor storytelling.



July 28 (Tuesday) Daicey Pond: "Six Tips to Leave No Trace" by Gabe Williamson.

Join campground ranger and U.S.M. instructor Gabe Williamson as he shares tips on Leave-No-Trace camping and outdoor ethics.

July 29 (Wednesday) Kidney Pond: "Mid-summer Nature Ramble" with Jean Hoekwater and Anne Loyd.

This evening walk will give you a chance to ask the Park Naturalists about that mysterious wildflower or tell fellow nature watchers about the owl you heard last night! Come prepared with clothing and footwear appropriate for a moderate hike and a healthy supply of curiosity!



August Programs

August 5 (Wednesday) Daicey Pond: "Lost on a Mountain in Maine" by Donn Fendler.

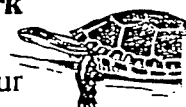
Donn returns to Baxter State Park each summer to share the story of his survival so people of all ages can learn and gain inspiration from the saga. Donn has agreed to be available at Daicey Pond campground for book signing beginning at 6 P.M. this evening. His talk will begin at 7 P.M..

August 8, (Saturday) Roaring Brook: "The Early Days: Logging, Sporting and Hiking Traditions in the Katahdin Region" by John Neff.

Author John Neff will meet campers under the Roaring Brook picnic shelter to recount tales of the people and events preceding the modern era of park management of these lands. Learn about some of the local eccentrics and some of the first hiking routes in the Park.

August 11 (Tuesday) Kidney Pond: "Reptiles and Amphibians of Maine" by Mark McCollough.

Drop in for an interesting introduction to some of the lesser-known animals in our state. Mark is a biologist with the non-game division of Maine Inland Fisheries and Wildlife. His extensive first-hand knowledge will change how you and your family look at these inhabitants of Maine's wetlands.



August 12 (Wednesday) Kidney Pond: "Wildlife Habitat- From Baxter to Backyards", by Cathy Elliot.

Cathy is a wildlife habitat specialist with the Maine Cooperative Extension Service. Her program will focus on ways we can all improve and create wildlife habitat in our own backyards and day-to-day environments. Take Governor Baxter's message of habitat preservation to heart and come to this inspiring presentation!

August 17 (Monday) Daicey Pond: "Chimney Pond Tales" by Jane Thomas.

Join artist and storyteller Jane Thomas as she shares the tall tales of legendary Katahdin guide Leroy Dudley and his impressive sidekick, Pamola.

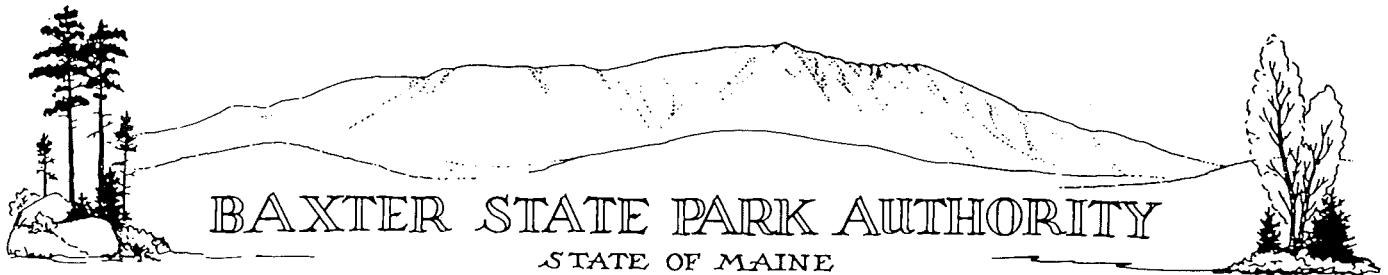
August 19 (Wednesday) Kidney Pond: "Where Is Blunder Pond? An Introduction to the Scientific Forest Management Area in Baxter State Park" by Jensen Bissell and Mac Browning.

A crash course on the northwest corner of Baxter State Park, including places you will want to visit and places you might decide to avoid! Jensen and Mac will explain the management philosophy in this unique area and discuss its importance to the long-term financial stability of the park.

August 26 (Wednesday) Daicey Pond: "The Bear Truth" by Chris Drew.

If laughter is the world's best medicine, you should be healthier after this evening of bear tales and other true accounts of life on the wild side, with Baxter State Park's Chief Ranger, Chris Drew! Bring a friend and come enjoy!





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BSP Director's Research Committee
Friday, April 17, 1998, Pine Tree State Arboretum, 10:00-noon

AGENDA

- I. New Proposals
 - A. Using Lichens . . .to Assess Stand Continuity . . .
Steven Selva
 - B. A Comparative Study of Habitat Preference by Alpine Vegetation...
Ken Kimball
 - C. Mycophagous Fly Communities-A Latitudinal Study
Wade Worthen
- II. Updates, Other
 - A. Red Spruce Regeneration Plots in SFMA (Boody Brook)
 - B. Boreal Owl
 - C. Marten
 - D. Bicknell Surveys
 - E. Peregrine Falcon
 - F. Fall Meeting in Baxter State Park

Using Lichens in the Order Caliciales to Assess Ecological Continuity
in the Forests of Baxter State Park, Maine

The lichen Order Caliciales has received little attention throughout North America and virtually nothing is known about the group in Baxter State Park: A review of the lichen literature for Maine reveals that only 3 Caliciales taxa have been reported. As perhaps our most sensitive biomonitors of forest ecosystem health, the Caliciales remain one of the forest's most elusive and poorly known inhabitants.

As part of an ongoing effort to assess the continuity of the forests of northern New England and Maritime Canada using ancient forest indicator lichens, species in the Order Caliciales are used to assess 3 previously investigated old-growth stands and 3 second growth stands in the park. On the basis of information presented here, the stands at Boody Brook and North Turner Mountain are considered premier ancient forest sites, the stand at North Traveler Mountain is in decline and has lost its once-premier status, and the stands at Hathorn River, Center Land, and Togue Pond are confirmed as second growth forests.

Thirty-eight species belonging to 8 genera of Caliciales are reported for Baxter State Park: Thirty-seven are new records for the park, bringing the known total to 39, ten are new state records, and 3 are new records for North America.

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April 1, 1999

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Introduction and Previous Work

While the most ubiquitous lichen species tend to become established early on in forest succession, some species are found only at sites that have contained mature trees for many centuries. By then the forest, as a result of structural heterogeneity, has presumably acquired a full complement of potential microsites suitable for colonization by lichen propagules originating from old-growth forests elsewhere. By concentrating on those taxa that appear to be almost (or entirely) "faithful" to ancient woodland sites, indices of ecological continuity can be constructed and used to assess the relative age of a particular stand.

As part of an ongoing effort to assess the continuity of forest ecosystems in northern New England and Maritime Canada, six old growth and second growth sites at Baxter State Park in northern Piscataquis County, Maine, are investigated. Patterned after a study by Francis Rose (1974, 1976) in Britain, the continuity of 64 sites have previously been assessed using indices of ecological continuity that are based upon the percentage occurrence of ancient forest indicator lichen species found at each site (Selva 1990, 1994, 1995, 1996, 1998, 1999a). The data show that, not only do epiphytic lichen floras become richer over time--with older stands harboring more rare species, but that the total number of Caliciales species collected at a site is, itself, an indicator of continuity. It is upon this rather obscure group of species in the Order Caliciales that the present investigation focuses.

The order Caliciales is described by Tibell (1984) as an extremely heterogeneous assemblage of saprophytic, parasitic and lichenized fungi that have in part independently achieved a passive spore dispersal. Most species can be distinguished by their tiny (1-2 mm tall) stipitate apothecia and by the fact that their spores, fragments of asci and paraphyses break down into a powdery mass, the so-called mazaedium. Assigned to twenty-six genera in eight families, the group is widely distributed in both hemispheres where they colonize a variety of substrates including the bark and lignum of numerous angiosperm and gymnosperm species as well as bryophytes and rock.

According to Tibell (1980), "Chaenotheca and other Caliciales species seem very sensitive to changes in forest climate, and most species indeed seem to depend on the occurrence of mature forests containing trees of different ages and a varied light and humidity regime". Like Tibell, who noted that, because of clearcutting, "the majority of Chaenotheca and other Caliciales species have already been exterminated over vast areas of Scandinavia and are now found only in forest reserves and national parks", I, too, have recorded similar declines in northern New England where many of the rarer Caliciales are restricted to old-growth and ancient forest sites (e.g., Selva 1988, 1994, 1996). Interestingly, of the 20 lichen index species selected by Tibell (1992) for an Indicator Species Index of Forest Continuity designed for the boreal forests from southern Sweden to Lapland, 10 belong to the Caliciales.

The Caliciales has received little attention throughout North America and virtually nothing is known about the group in Baxter State Park. A survey of the lichen literature of Maine reveals that, among the 159 lichen taxa reported for the park in eight investigations conducted between 1856 and 1940, only 3 belong to the Caliciales: *Sphaerophorus fragilis* (Harvey 1894; Howe 1913; Degelius 1940), *Stenocybe major* (Degelius 1940), and *Calicium* sp. (Degelius 1940). In

the current investigation, the continuity of three previously documented old-growth stands and three second growth stands are assessed using an index of ecological continuity that is based on the presence of selected Caliciales indicator species found at each site. These stands are then ranked among the 64 stands previously investigated over the course of this study and species lists, diagnoses, and information on their ecology is presented. In addition to the species recorded at each of the study sites, Caliciales species were also collected at a variety of other trailside, roadside, streamside, and campsite locations throughout the park and are included in a table which documents the known flora.

The Study Area

Administered by a state agency known as the Baxter State Park Authority, Baxter State Park contains 202,064 acres of one of the wildest and most spectacular mountain areas in the eastern United States. The park includes at least 46 mountain peaks, dominated by Mt. Katahdin--Maine's highest at 5240 feet, and the most significant extent of subalpine forest in Maine (Clark 1985, Maine State Planning Office 1986).

While old-growth forests are rare in Baxter, because "most of the land was commercially harvested before a park was established", six small old-growth stands, ranging in size from one to 25 acres, and one large stand, the 832-acre Klondike, are recognized by the Maine Critical Areas Program in their report on Uncut Timber Stands and Unique Alpine Areas on State Lands (Maine State Planning Office 1986). In 1990, University of Maine Professor of Wildlife Resources, Ray Owen, discovered a 300-acre stand of old-growth red spruce along Boody Brook in the Scientific Forest Management Area of the park (Kekacs 1994), and several other stands are currently being investigated as potential old-growth sites.

In the current study, the continuity of the following old-growth and second growth stands within Baxter State Park are assessed:

Boody Brook Old-Growth Red Spruce

In what may include "the largest old-growth spruce stand in the state (Kekacs 1994), this 300 acre stand along Boody Brook in the Scientific Management Area of Trout Brook Township was only discovered in 1990. There appears to be no evidence that trees have been cut and many of the foresters from across the state who have evaluated the site suggest that it may even be a virgin forest.

North Turner Mountain Old-Growth Red Spruce

In a letter to Park Naturalist Jean Hoekwater, dated 25 March 1992 (personal communication), Forest Ecologist Charles Cogbill describes the North Turner red spruce stand as "the best example I know for its type in the Northeast. I can't rave enough about it--it's extensive, old, in reasonably good health, and dynamically multi-aged." He talks of trees over 300 years old, including the oldest documented spruce tree in Maine at 419 years. According to

Don Hudson (personal communication), the old-growth section of the stand was only discovered in 1989 and consists of "2 or 3 acres--perhaps a bit more." The site is located on the north side of North Turner Brook off the Tracy Horse Trail, in Township 4, Range 9.

North Traveler Mountain Old-Growth Red Spruce

Of two old-growth red spruce stands that have been identified on North Traveler in Township 5, Range 9, the 25-acre site on the north side of the mountain has been described as one of the finest in the state, albeit one that is "showing some sign of decline" (Maine State Planning Office 1983). In Hudson et al (1985), the same site is described as "perhaps the most extensive old-growth stand in the park, free of insect pests, natural decline, or other threat to its health." In 1998, we have found the stand to be in marked decline.

Hathorn River Second Growth Mixed Conifer

This mixed conifer stand is located along the Hathorn River in Nesourdnahunk Township, approximately .5 km south of the McCarty Field Station. It is an intact stand which shows evidence of past disturbance in the form of numerous cut stumps.

Center Land Second Growth Mixed Hardwoods

Located along the fire road that extends east off the main park road near the southern end of Nesowadnehunk Lake in Township 4, Range 10, this intact second growth stand of mixed hardwoods shows evidence of past disturbance in the form of numerous cut stumps.

Togue Pond Second Growth Mixed Conifer

This second growth mixed conifer stand located on the western shore of Lower Togue Pond in Township 2, Range 9, is intact though showing signs of past disturbance in the form of numerous cut stumps.

Methods

Since many of the potential indicator species are rare even at ancient forest sites, every attempt was made to create as complete an inventory of each site as possible. The Releve Analysis for Classification approach to sampling (Mueller-Dombois and Ellenberg 1974), a form of "intelligent meander", was employed in an effort to allow the highest sampling intensity and reduce the likelihood of missing localized areas of high species diversity. Numerous replicates increase the probability that potential indicator species--many of which are not visible with the naked eye, let alone identifiable in the field--would be captured.

Each of the stands under investigation were visited once or twice, depending on its size, by me and one field assistant. We spent no fewer than eight hours per visit collecting specimens from the diversity of substrate types present. Epiphytes growing on both bark and wood were collected from standings as well as fallen trees, whether intact or at some stage of decomposition. Specimens on standing trees were collected from as high on the trunk as could be reached,

downward to the soil, and from accessible branches. All surfaces and edges of substrate fragments were examined in the lab, where specimens were identified using standard techniques and following nomenclature according to Esslinger (1998). All collection data relating to the identification, classification, location, ecology, and substrate preferences of each specimen are being entered into a lichen database program developed and maintained by the principal investigator.

Results and Discussion

The Caliciales Flora

Thirty-eight species belonging to 8 genera of Caliciales are reported for Baxter State Park: Thirty-seven are new records for the park, bringing the known total to 39 (Table 1), ten are new state records that were not reported by Selva (1988), and three are new records for North America. All species, with their substrates, are listed by site in Table 2.

The first floristic study of the lichen Order Caliciales in Maine was that of Selva (1988) who reported twenty-three new records for the state, including *Chaenothecopsis brevipes*, a new record for the Northern Hemisphere. Selva's report on The Caliciales of Northern Maine helped raise the state total to 35 species and provided much new information on the ecology of the group in northeastern North America.

With the addition of the following ten species from Baxter State Park, the Caliciales flora of Maine now stands at 45:

<i>Chaenotheca brachypoda</i>	<i>Chaenothecopsis nana</i>
<i>Chaenotheca cinerea</i>	<i>Chaenothecopsis viridialba</i>
<i>Chaenotheca sphaerocephala</i>	<i>Microcalicium ahlneri</i>
<i>Chaenotheca stemonea</i>	<i>Phaeocalicium betulinum</i>
<i>Chaenotheca xyloxena</i>	<i>Phaeocalicium flabelliforme</i>

Three of the species reported as new for Maine, *Chaenotheca sphaerocephala*, *Phaeocalicium betulinum*, and *Phaeocalicium flabelliforme*, are also included in a manuscript recently accepted for publication in The Bryologist in which the taxonomy, distribution and ecology of 15 species reported as new to the North American flora is discussed (Selva and Tibell 1999b, in press).

Substrate Ecology

The most ubiquitous lichen species tend to become established early on in forest succession and, as new microhabitats accumulate over time, they are colonized by increasingly less common species. Since Caliciales species are "very sensitive to changes in forest climate, and most species indeed seem to depend on the occurrence of mature forests containing trees of different ages and a varied light and temperature regime" (Tibell 1980), they can be found growing in

more of these microhabitats than perhaps any other group of lichen epiphytes.

Because of the even supply of wood in various stages of decay that characterize natural forests in late successional stages, the species diversity of Caliciales on decorticated (lignicolous) surfaces increases with stand age and decomposition of the substrate. And many of these substrates--including stumps, standing hulks, fallen logs and branches, and the exposed heartwood of living trees--are colonized exclusively by the Caliciales.

Certain species typically found on lignin in early successional stages (e.g., *Mycocalicium subtile*, *Chaenothecopsis debilis*, *Chaenotheca trichialis*, *Chaenotheca brunneola*, *Calicium salicinum* and *Calicium trabinellum*) are more frequently also found on bark (corticolous) substrates in middle and late successional stages. Further, one tends to find these and other corticolous Caliciales species on the sides of trees where they are not competing with other lichens and bryophytes for space and where they are out of direct sunlight. The few exceptions include *Sphinctrina* species, which grow parasymbiotically with *Pertusaria* or *Lecanora* species, and *Phaeocalicium polyporaenum*, which grows associated with polypores.

Other microhabitats occupied exclusively or almost exclusively by Caliciales species include the smooth bark of seedlings and saplings (e.g., *Phaeocalicium betulinum* and *Phaeocalicium flabelliforme*), among the roots of upturned trees (e.g., *Microcalicium arenarium*, *Chaenotheca furfuracea*), in cave-like "grottos" formed at the base of trees (e.g., *Chaenotheca sphaerocephala* and *Chaenotheca furfuracea*), and over resin (*Chaenotheca edbergii*).

Using Caliciales to Assess Ecological Continuity

After conducting comparative studies of the lichens present in 102 oak and beech woodlands in the British Isles, Rose (1974, 1976) found a definite positive correlation between lichen diversity and stand age. He constructed an Index of Ecological Continuity (IEC) that could be used to assess the relative age of a particular woodland:

$$IEC = N/20 \times 100,$$

in which N is the number of ancient forest indicator species present at a site out of a list of 30. Because these 30 species are not all widespread in Britain--hence unlikely to occur all together at a site--Rose argued that the presence of 20 taxa (IEC = 100) indicates a very high probability that the site is an ancient one. Thus, the higher the IEC value, the more ancient the site, and vice versa.

The term "ancient" is used here to describe those old-growth forests that have been around long enough to acquire the types of microhabitats that enable the rarer Caliciales and other indicator species to become established. Once established--and because dispersal is limited--these ancient forest indicators require ecological continuity of mature trees and a constant supply of substrate in various stages of decomposition to persist. Goward (1994) prefers the word "antique" to describe these "old" old-growth forests, which he defines as a fourth category of forest succession following pioneer, seral, and young old-growth forests.

Research conducted to date in the Adirondacks of New York, northern New England, and

Maritime Canada shows that as few as 0 to 5 Caliciales species and as many as 16 to 21 have been recorded on angiosperms at northern hardwoods sites, and as few as 2 to 5 and as many as 18 to 24 Caliciales species have been recorded on gymnosperms at spruce-fir sites, suggesting that the total number of Caliciales species found at a site can, itself, be used to assess continuity. On the basis of data reported by Selva (1990, 1994, 1995, 1996, 1998, and 1999a), as well as unpublished data relating to frequency of encounter and other anecdotal observations, Caliciales species assemblages have been identified that can be used to recognize early-, middle-, and late-successional stages (Tables 3 and 4). Stands are then ranked according to decreasing totals generated by a formula that assigns a 1 for each early-successional species, a 2 for each middle-successional species, and a 3 for each late-successional species collected on gymnosperms or angiosperms, respectively, at each of the sites (Tables 5 and 6).

When the results presented in Tables 5 and 6 are compared with the results presented by Selva (1994, 1996), who assessed many of these same stands using an index of ecological continuity based on indicator lichen species from many orders--including the Caliciales, the following observations can be made:

Among the spruce-fir stands included in the investigation (Table 5), a Caliciales index value of 25 corresponds with the IEC value of 100 assigned to ancient forests according to Rose (1974, 1976). With Caliciales index values of 46 and 36, respectively, the red spruce stands at Boody Brook and North Turner Mountain rank as the premier ancient forest sites in northeastern North America. They share the top ten spot with the spruce-fir stands at Big Reed Preserve, Panuke Lake in Nova Scotia, Nancy Brook and Norton Pool in New Hampshire, and the Rocky Brook Cedar stand in Maine, the only cedar stand in the state to achieve Critical Area status. The position of the North Traveler Mountain stand in the overall ranking confirms its decline as a premier old-growth stand, while the values assigned to the mixed conifer stands at Hathorn River and Togue Pond also reflect a history of disturbance.

Among the northern hardwoods stands included in the investigation (Table 6), many of the stands that were assigned IEC values of 100 or more in previous studies (Selva 1994, 1996) are not nearly as impressive when assessed with an index based exclusively on Caliciales indicators. Stands like Musquacook, Yankeetuladi, and Hedgehog Mountain, for example, that had previously been assessed as ancient forest sites, are assigned Caliciales index values of 14, 13, and 12, respectively. This is in stark contrast to the Caliciales index values of 39, 38, and 33 assigned to the stands at Margaree River, North River, and Sugarloaf Mountain in Nova Scotia. Perhaps they are all ancient forest sites, just at each end of a continuum. After all, the majority of the stands that have received Caliciales index values of 12 or higher are considered by many to be the premier old-growth stands in their respective states and provinces.

While the data presented here goes a long way in helping develop a reliable Caliciales index that can be used to assess the continuity of northeastern forests, it raises additional questions that can only be answered with further study.

Acknowledgments

The financial support of the Sweet Water Trust is gratefully acknowledged, with a special thanks to their Director, Sigrid Pickering, for her continued interest in and support for this research. I would also like to thank the Baxter State Park Authority for allowing me to carry out this investigation within the park, particularly to Jean Hoekwater and Jensen Bissell for their support, both behind the scenes and in the field. And a special thanks to my field and laboratory assistants, M. Paul Edberg and Matthew Selva, whose tireless efforts on behalf of the project have helped make it a success, and to Don Hudson for providing maps, information on site access, and anecdotal observations.

Literature Cited

- Clark, S. 1985. Katahdin, A Guide to Baxter Park and Katahdin. North Countr Press, Unity, Maine.
- Degelius, G. 1940. Contributions to the lichen flora of North America. I. Lichens from Maine. Arkiv for Botanik 30A: 1-62.
- Esslinger, T. L. 1998. A cumulative checklist for the lichen-forming, lichenicolous and allied fungi of the continental United States and Canada. North Dakota State University: <http://www.ndsu.nodak.edu/instruct/esslinge/chcklst/chcklst7.htm> (First Posted on 1 December 1997, Most Recent Update: 18 September 1998), Fargo, North Dakota.
- Goward, T. 1994. Notes on Oldgrowth-dependent epiphytic macrolichens in Inland British Columbia, Canada. Acta Botanica Fennica 150: 31-38.
- Harvey, F. L. 1894. Contributions to the lichens of Maine. I. Bulletin of the Torrey Botanical Club 21: 389-393.
- Howe, R. H., Jr. 1913. Lichens of Mount Katahdin, Maine. The Bryologist 16: 33-36.
- Hudson, Jr. W. D., R. Cannarella, L. Garnett, and K. Huntington. 1985. Old-Growth Forest, Subalpine Forest, and Alpine Areas in Baxter State Park. Critical Areas Program, Maine State Planning Office, Augusta.
- Kekacs, A. 1994. Old-growth forest stands tall in Baxter. Bangor Daily News 8/27/94.
- Maine State Planning Office. 1983. Natural old-growth forest stands in Maine. Critical Areas Program, Maine State Planning Office, Augusta.
- Maine State Planning Office. 1986. Uncut Timber Stands and Unique Alpine Areas on State Lands. Critical Areas Program, Maine State Planning Office, Augusta.
- Mueller-Dombois, D., and H. Ellenberg. 1974. Aims and methods of vegetation ecology. Wiley, New York.
- Rose, F. 1974. The epiphytes of oak, pp. 250-273. In M. G. Morris and F. H. Perring (eds.), The British oak: Its history and natural history. Faringdon.
- Rose, F. 1976. Lichenological indicators of age and environmental continuity in woodlands, pp. 279-307. In D. H. Brown et al. (eds.), Lichenology: Progress and problems. Academic Press.

- Selva, S. B. 1988. The Caliciales of northern Maine. *The Bryologist* 91:2-17.
- Selva, S. B. 1990. The Caliciales of Mount Carleton Provincial Park, New Brunswick. A report prepared for the New Brunswick Museum, Saint John.
- Selva, S. B. 1994. Lichen diversity and stand continuity in the northern hardwoods and spruce-fir forests of northern New England and western New Brunswick. *The Bryologist* 97:424-429.
- Selva, S. B. 1995. Lichen Diversity and Stand Continuity in the Northern Hardwoods and Spruce-Fir Forests of New Hampshire, Vermont, and the Adirondacks of New York. A report prepared for the Northeastern Forest Experiment Station, Durham, New Hampshire.
- Selva, S. B. 1996. Using lichens to assess ecological continuity in northeastern forests, pp. 35-48. In M. B. Davis (ed.), *Eastern old-growth forests*. Island Press, Washington D.C.
- Selva, S. B. 1998. The Caliciales of Nova Scotia and Prince Edward Island. Unpubl. report prepared for the National Geographic Society, Washington D. C.
- Selva, S. B. 1999a. Survey of epiphytic lichens of late successional northern hardwoods forests in northern Cape Breton Island. A report prepared for Cape Breton Highlands National Park and Parks Canada, Ingonish Beach, Nova Scotia.
- Selva, S. B. and L. Tibell. 1999b, in press. Lichenized and non-lichenized calicioid fungi from North America. *The Bryologist*.
- Tibell, L. 1980. The lichen genus *Chaenotheca* in the Northern Hemisphere. *Symbolae Botanicae Upsaliensis* 23:1-65.
- Tibell, L. 1984. A reappraisal of the taxonomy of Caliciales. *Nova Hedwigia, Beiheft* 79: 597-713.
- Tibell, L. 1992. Crustose lichens as indicators of forest continuity in boreal coniferous forests. *Nordic Journal of Botany* 12:427-450.

Table 1. The Caliciales of Baxter State Park. Species collected during the current investigation are indicated by asterisks (*), including new state records (***) and new records for North America (***).

- **Calicium glaucellum*
- **Calicium lenticulare*
- **Calicium parvum*
- **Calicium salicinum*
- **Calicium trabinellum*
- ***Chaenotheca brachypoda*
- **Chaenotheca brunneola*
- **Chaenotheca chrysocephala*
- ***Chaenotheca cinerea*
- **Chaenotheca ferruginea*
- **Chaenotheca furfuracea*
- **Chaenotheca hispidula*
- **Chaenotheca laevigata*
- ****Chaenotheca sphaerocephala*
- ***Chaenotheca stemonea*
- **Chaenotheca trichialis*
- ***Chaenotheca xyloxena*
- **Chaenothecopsis brevipes*
- **Chaenothecopsis consociata*
- **Chaenothecopsis debilis*
- ***Chaenothecopsis nana*
- **Chaenothecopsis pusilla*
- **Chaenothecopsis pusiola*
- **Chaenothecopsis rubescens*
- **Chaenothecopsis savonica*
- ***Chaenothecopsis viridialba*
- **Chaenothecopsis viridireagens*
- ***Microcalicium ahlneri*
- **Microcalicium arenarium*
- **Mycocalicium subtile*
- ****Phaeocalicium betulinum*
- **Phaeocalicium compressulum*
- ****Phaeocalicium flabelliforme*
- **Phaeocalicium polyporaeum*
- **Phaeocalicium populneum*
- Sphaerophorus fragilis* (Reported by Harvey 1894, Howe 1913, Degelius 1940)
- **Sphinctrina turbinata*
- **Stenocybe major* (Also reported by Degelius 1940)
- **Stenocybe pullatula*

Table 2. List of Caliciales species, and their substrates, for each of the sites studied in the current investigation.

Boody Brook Old-Growth Red Spruce

- Calicium lenticulare (Corticolous on Picea rubens and Tsuga canadensis)
- Calicium parvum (Corticolous on Picea rubens and Tsuga canadensis)
- Calicium salicinum (Corticolous on Thuja occidentalis; Lignicolous on Fagus grandifolia, Thuja occidentalis and an unidentifiable species)
- Calicium trabinellum (Lignicolous on Picea rubens)
- Chaenotheca brachypoda (Corticolous on Thuja occidentalis)
- Chaenotheca brunneola (Lignicolous on Thuja occidentalis)
- Chaenotheca chrysocephala (Corticolous on Picea rubens, Tsuga canadensis, Thuja occidentalis, Pinus strobus, and Abies balsamea)
- Chaenotheca cinerea (Corticolous on Thuja occidentalis)
- Chaenotheca ferruginea (Corticolous on Picea rubens and Pinus strobus)
- Chaenotheca furfuracea (Corticolous on Picea rubens and Betula alleghaniensis)
- Chaenotheca hispidula (Corticolous on Thuja occidentalis and Acer saccharum)
- Chaenotheca laevigata (Corticolous on Thuja occidentalis)
- Chaenotheca stemonea (Corticolous on Thuja occidentalis)
- Chaenotheca trichialis (Corticolous on Picea rubens, Tsuga canadensis, and Thuja occidentalis and Acer saccharum; Lignicolous on Fagus grandifolia)
- Chaenothecopsis brevipes (Corticolous on Thuja occidentalis)
- Chaenothecopsis consociata (Corticolous on Pinus strobus, Abies balsamea, and Thuja occidentalis)
- Chaenothecopsis debilis (Corticolous on Acer saccharum and Fraxinus americana; Lignicolous on Acer pensylvanicum and Fagus grandifolia)
- Chaenothecopsis nana (Corticolous on Thuja occidentalis)
- Chaenothecopsis pusilla (Corticolous on Picea rubens, Tsuga canadensis and Pinus strobus)
- Chaenothecopsis pusiola (Lignicolous on an unidentifiable species)
- Chaenothecopsis rubescens (Corticolous on Thuja occidentalis)
- Chaenothecopsis savonica (Corticolous on Thuja occidentalis and Acer saccharum; Lignicolous on an unidentifiable species)
- Chaenothecopsis viridialba (Corticolous on Picea rubens and Tsuga canadensis)
- Mycocalicium subtile (Corticolous on Picea rubens, Tsuga canadensis, Pinus strobus, and Thuja occidentalis; Lignicolous on Picea rubens, Thuja occidentalis, Abies balsamea, Fagus grandifolia, and an unidentifiable species)
- Phaeocalicium betulinum (Corticolous on Betula alleghaniensis)
- Phaeocalicium polyporaeum (Corticolous, over polypore, on Fagus grandifolia, Betula alleghaniensis, and Acer pensylvanicum)
- Sphinctrina turbinata (Corticolous, over Pertusaria macounii, on Fagus grandifolia and Betula alleghaniensis)

Stenocybe major (Corticolous on *Abies balsamea*)
Stenocybe pullatula (Corticolous on *Alnus incana* subsp. *rugosa*)

North Turner Mountain Old-Growth Red Spruce

Calicium parvum (Corticolous on *Picea rubens*)
Calicium trabinellum (Lignicolous on *Picea rubens*, *Betula papyrifera*, and an unidentifiable species)
Chaenotheca brunneola (Lignicolous on *Picea rubens*)
Chaenotheca chrysocephala (Corticolous on *Picea rubens* and *Thuja occidentalis*)
Chaenotheca cinerea (Corticolous on *Thuja occidentalis*)
Chaenotheca ferruginea (Corticolous on *Picea rubens*)
Chaenotheca furfuracea (Corticolous on *Thuja occidentalis*)
Chaenotheca hispidula (Lignicolous on *Picea rubens*)
Chaenotheca laevigata (Corticolous on *Thuja occidentalis*)
Chaenotheca sphaerocephala (Corticolous on *Picea rubens*)
Chaenotheca trichialis (Corticolous on *Picea rubens* and *Thuja occidentalis*; Lignicolous on *Picea rubens*, *Abies balsamea*, and an unidentifiable species)
Chaenothecopsis consociata (Corticolous on *Thuja occidentalis*)
Chaenothecopsis nana (Corticolous on *Picea rubens* and *Thuja occidentalis*)
Chaenothecopsis pusilla (Corticolous on *Picea rubens*)
Chaenothecopsis pusiola (Lignicolous on *Picea rubens*, *Thuja occidentalis*, and an unidentifiable species)
Chaenothecopsis savonica (Corticolous on *Thuja occidentalis*)
Chaenothecopsis viridireagens (Lignicolous on *Picea rubens*)
Microcalicium ahlneri (Corticolous on *Picea rubens*)
Mycocalicium subtile (Lignicolous on *Picea rubens*, *Abies balsamea*, and an unidentifiable species)
Phaeocalicium betulinum (Corticolous on *Betula alleghaniensis*)
Phaeocalicium flabelliforme (Corticolous on *Betula cordifolia*)
Sphinctrina turbinata (Corticolous, over *Pertusaria consocians*, on *Thuja occidentalis*)
Stenocybe major (Corticolous on *Abies balsamea*)

North Traveler Mountain Old-Growth Red Spruce

Calicium parvum (Corticolous on *Picea rubens*)
Calicium trabinellum (Corticolous on *Picea rubens*; Lignicolous on *Picea rubens*, *Abies balsamea*, *Betula cordifolia*, and an unidentifiable species)
Chaenotheca brunneola (Lignicolous on *Abies balsamea*, *Betula cordifolia*, and an unidentifiable species)
Chaenotheca chrysocephala (Corticolous on *Picea rubens*)
Chaenotheca ferruginea (Corticolous on *Picea rubens*)
Chaenotheca sphaerocephala (Corticolous on *Picea rubens*)

Chaenotheca stemonea (Corticolous on *Picea rubens*)
Chaenotheca trichialis (Lignicolous on *Picea rubens*, *Abies balsamea*, *Betula cordifolia*, and an unidentifiable species)
Chaenothecopsis pusilla (Corticolous on *Picea rubens*)
Chaenothecopsis pusiola (Lignicolous on *Picea rubens*, *Abies balsamea*, *Betula cordifolia*, and an unidentifiable species)
Chaenothecopsis viridireagens (Corticolous on *Picea rubens*)
Mycocalicium subtile (Lignicolous on *Abies balsamea* and an unidentifiable species)
Phaeocalicium flabelliforme (Corticolous on *Betula cordifolia*)
Sphinctrina turbinata (Corticolous, over *Pertusaria macounii*, on *Abies balsamea*; Corticolous, over *Pertusaria consocians*, on *Sorbus americana*)
Stenocybe major (Corticolous on *Abies balsamea*)

Hathorn River Second Growth Mixed Conifer

Calicium glaucellum (Lignicolous on an unidentifiable species)
Calicium parvum (Corticolous on *Picea rubens*)
Calicium salicinum (Lignicolous on *Abies balsamea*)
Calicium trabinellum (Lignicolous on *Picea rubens*, *Abies balsamea*, and *Thuja occidentalis*)
Chaenotheca ferruginea (Lignicolous on *Thuja occidentalis*)
Chaenotheca xyloxena (Lignicolous on an unidentifiable species)
Chaenothecopsis debilis (Corticolous on *Betula alleghaniensis*; Lignicolous on *Prunus pensylvanica*)
Chaenothecopsis pusilla (Corticolous on *Picea rubens*)
Chaenothecopsis pusiola (Lignicolous on an unidentifiable species)
Chaenothecopsis savonica (Lignicolous on *Thuja occidentalis*)
Mycocalicium subtile (Lignicolous on *Picea rubens*, *Abies balsamea*, and *Prunus pensylvanica*)
Phaeocalicium betulinum (Corticolous on *Betula alleghaniensis*)
Phaeocalicium flabelliforme (Corticolous on *Betula alleghaniensis* and *Betula papyrifera*)
Sphinctrina turbinata (Corticolous, over *Pertusaria consocians*, on *Thuja occidentalis* and *Betula alleghaniensis*; Corticolous, over *Pertusaria macounii*, on *Betula alleghaniensis*)
Stenocybe major (Corticolous on *Abies balsamea*)
Stenocybe pullatula (Corticolous on *Alnus incana* subsp. *rugosa*)

Center Land Second Growth Mixed Hardwoods

Calicium salicinum (Corticolous on *Thuja occidentalis*; Lignicolous on *Acer saccharum*)
Chaenotheca hispidula (Corticolous on *Acer saccharum*)
Chaenotheca trichialis (Corticolous on *Acer saccharum*)
Chaenothecopsis debilis (Corticolous on *Acer saccharum*; Lignicolous on *Acer saccharum*)
Mycocalicium subtile (Lignicolous on *Abies balsamea* and *Acer saccharum*)

Phaeocalicium betulinum (Corticolous on *Betula alleghaniensis*)
Sphinctrina turbinata (Corticolous, over *Pertusaria consocians*, on *Thuja occidentalis* and *Acer rubrum*; Corticolous, over *Pertusaria macounii*, on *Fagus grandifolia*)
Stenocybe major (Corticolous on *Abies balsamea*)

Togue Pond Second Growth Mixed Conifer

Calicium parvum (Corticolous on *Pinus strobus*)
Calicium salicinum (Lignicolous on *Betula papyrifera*)
Calicium trabinellum (Lignicolous on an unidentifiable species)
Chaenotheca brunneola (Corticolous, over polypore, on *Abies balsamea*)
Chaenothecopsis debilis (Lignicolous on *Thuja occidentalis*)
Chaenothecopsis pusilla (Corticolous on *Picea rubens*)
Mycocalicium subtile (Lignicolous on *Acer rubrum*)

Additional Species Collected at Various Trailside, Roadside, Streamside and Campsite Locations

Microcalicium arenarium (Saxicolous)
Phaeocalicium compressulum (Corticolous on *Alnus viridis* subsp. *crispa*)
Phaeocalicium populneum (Corticolous on *Populus balsamifera*)

Table 3. Caliciales species assemblages used to recognize early, middle and late stages of succession in spruce-fir forests. (Only species found on gymnosperms are considered)

Early Successional Species

<i>Calicium lenticulare</i>	<i>Chaenotheca trichialis</i> (lignicolous)
<i>Calicium parvum</i>	<i>Chaenothecopsis pusilla</i>
<i>Calicium salicinum</i> (lignicolous)	<i>Chaenothecopsis pusiola</i>
<i>Calicium trabinellum</i> (lignicolous)	<i>Mycocalicium subtile</i> (lignicolous)
<i>Chaenotheca chrysocephala</i>	<i>Stenocybe major</i>
<i>Chaenotheca brunneola</i>	

Middle Successional Species

<i>Calicium glaucellum</i>	<i>Chaenothecopsis consociata</i>
<i>Calicium salicinum</i> (corticolous)	<i>Chaenothecopsis debilis</i>
<i>Calicium trabinellum</i>	<i>Chaenothecopsis nana</i>
<i>Chaenotheca ferruginea</i>	<i>Chaenothecopsis savonica</i>
<i>Chaenotheca furfuracea</i>	<i>Chaenothecopsis viridireagens</i>
<i>Chaenotheca gracillima</i>	<i>Cybebe gracilentia</i>
<i>Chaenotheca hispidula</i>	<i>Cyphelium lucidum</i>
<i>Chaenotheca sphaerocephala</i>	<i>Mycocalicium subtile</i> (corticolous)
<i>Chaenotheca stemonea</i>	<i>Phaeocalicium polyporaeum</i>
<i>Chaenotheca trichialis</i> (corticolous)	<i>Sphaerophorus globosus</i>
<i>Chaenotheca xyloxena</i>	<i>Sphinctrina turbinata</i>

Late Successional Species

<i>Chaenotheca brachypoda</i>	<i>Chaenothecopsis rubescens</i>
<i>Chaenotheca cinerea</i>	<i>Chaenothecopsis viridialba</i>
<i>Chaenotheca edbergii</i>	<i>Microcalicium ahlneri</i>
<i>Chaenotheca hygrophila</i>	<i>Microcalicium arenarium</i>
<i>Chaenotheca laevigata</i>	<i>Microcalicium disseminatum</i>
<i>Chaenothecopsis brevipes</i>	<i>Stenocybe flexuosa</i>

Table 4. Caliciales species assemblages used to recognize early, middle and late stages of succession in northern hardwoods forests. (Only species found on angiosperms are considered)

Early Successional Species

<i>Calicium salicinum</i> (lignicolous)	<i>Chaenothecopsis pusilla</i> (lignicolous)
<i>Calicium trabinellum</i>	<i>Chaenothecopsis pusiola</i>
<i>Chaenotheca brunneola</i> (lignicolous)	<i>Mycocalicium subtile</i> (lignicolous)
<i>Chaenotheca trichialis</i> (lignicolous)	<i>Phaeocalicium polyporaeum</i>
<i>Chaenothecopsis debilis</i>	<i>Sphinctrina turbinata</i>

Middle Successional Species

<i>Calicium abietinum</i>	<i>Chaenotheca trichialis</i>
<i>Calicium glaucellum</i>	<i>Chaenothecopsis pusilla</i> (corticolous)
<i>Calicium lenticulare</i>	<i>Chaenothecopsis savonica</i>
<i>Calicium parvum</i>	<i>Chaenothecopsis viridireagens</i>
<i>Calicium viride</i>	<i>Mycocalicium subtile</i> (corticolous)
<i>Calicium salicinum</i> (corticolous)	<i>Phaeocalicium acadiae</i>
<i>Chaenotheca brunneola</i> (corticolous and over polypores)	<i>Phaeocalicium betulinum</i>
<i>Chaenotheca chrysocephala</i>	<i>Phaeocalicium compressulum</i>
<i>Chaenotheca ferruginea</i>	<i>Phaeocalicium flabelliforme</i>
<i>Chaenotheca furfuracea</i>	<i>Sphaerophorus globosus</i>
<i>Chaenotheca gracillima</i>	<i>Sphinctrina tubaeformis</i>
<i>Chaenotheca hispidula</i>	<i>Stenocybe minutissimum</i>
<i>Chaenotheca sphaerocephala</i>	<i>Stenocybe pullatula</i>
<i>Chaenotheca stemonea</i>	

Late Successional Species

<i>Chaenotheca brachypoda</i>	<i>Cyphelium lucidum</i>
<i>Chaenotheca chlorella</i>	<i>Microcalicium ahlneri</i>
<i>Chaenotheca laevigata</i>	<i>Microcalicium disseminatum</i>
<i>Chaenothecopsis brevipes</i>	<i>Sclerophora coniophaea</i>
<i>Chaenothecopsis rubescens</i>	<i>Sclerophora sp.</i>

Table 5. Summary of data on epiphytic Caliciales collected at each of the spruce-fir forests investigated, to date, in northern New England, the Adirondacks of New York, and Maritime Canada. Stands are ranked according to decreasing values which are based on the status of recorded species as early-, middle-, and late-successional (See Table 4). Only species collected on gymnosperms are considered in the calculation of index values. Forests included in the current investigation are indicated in bold.

	Total Caliciales	Index Value
Boody Brook (ME)	24	46
North Turner Mountain (ME)	21	36
Deboullie Cedar (ME)	20	37
Little Tobique Cedar (NB)	17	32
Panuke Lake (NS)	18	31
Big Reed Preserve Spruce-Fir (ME)	17	28
Nancy Brook (NH)	17	28
Big Pines (NH)	14	26
Rocky Brook Cedar (ME)	17	25
Norton Pool (NH)	16	25
Edward's Woodlot (PEI)	14	22
Gibb's Brook (NH)	14	20
MacLean's Hemlock Woodlot (PEI)	13	20
Portage Lake Cedar (ME)	12	20
North Traveler Mountain (ME)	14	19
Dry Town (ME)	13	19
Abraham's Lake (NS)	12	19
McGahey Brook (NS)	12	19
French River (NS)	12	18
Hathorn River (ME)	12	17
Big Reed Preserve Cedar (ME)	12	17
Wood's Cedar Woodlot (PEI)	12	17
Cone Pond (NH)	12	16
Shingle Pond (NH)	11	16
East Mountain (VT)	9	16
Sagamook Mountain (NB)	10	14
Township 8, Range 9 (ME)	8	10
Cross Lake (ME)	7	8
Number Nine Mountain (ME)	7	7
Mount Carleton (NB)	5	7
Togue Pond (ME)	5	6
Bartlett Stream (ME)	5	6
Township D, Range 2 (ME)	4	4
Yankeetuladi (ME)	2	2

Table 6. Summary of data on epiphytic Caliciales collected at each of the northern hardwood forests investigated, to date, in northern New England, the Adirondacks of New York, and Maritime Canada. Stands are ranked according to decreasing values which are based on the status of recorded species as early-, middle-, and late-successional (See Table 3). Only species collected on angiosperms are considered in the calculation of index values. Forests included in the current investigation are indicated in bold.

	Total Caliciales	Index Value
Margaree River (NS)	21	39
North River (NS)	20	38
Sugarloaf Mountain (NS)	20	33
Big Reed Preserve (ME)	16	28
Townshend Woodlot (PEI)	16	27
Forked Lake (NY)	13	24
MacLean's Hardwood Woodlot (PEI)	13	22
Loo's Woodlot (PEI)	13	20
The Bowl (NH)	13	19
Adirondack Mountain Reserve (NY)	12	19
Big Brook (NB)	11	17
Grande Anse (NS)	11	17
Mount Bailey (NB)	10	16
Mountain Pond (NH)	9	16
The Cape (VT)	9	15
Musquacook (ME)	11	14
Yankeetuladi (ME)	9	13
Quinan Lake (NS)	9	13
Hedgehog Mountain (ME)	9	12
Guifford Woods (VT)	9	12
Ampersand Mountain (NY)	6	12
Morrison Mountain (ME)	7	11
North Aspy Fault (NS)	7	11
Center Land (ME)	7	10
Cone Pond (NH)	7	9
Chandler Ridge (VT)	6	7
Lunksoos Mountain (ME)	5	6
Township 19, Range 11 (ME)	4	6
Township 4, Range 7 (ME)	2	3
Corney Brook (NS)	2	2
Lord's Hill (VT)	2	2
Pennington Pond (ME)	2	2
Smith Road (ME)	0	0



Appalachian Mountain Club

Jean Hoekwater
Head Naturalist
Baxter State Park
64 Balsam Drive
Millinocket, ME 04462

November 15, 1998

Jean,

The following is a progress report regarding the Appalachian Mountain Club's study of habitat preference by alpine vegetation on Katahdin. Fieldwork to gather data on the location of alpine vegetation communities on Katahdin began June 9 and was completed on September 25, 1998, with an effort of more than 100 person-field days. This information was recorded in the field on mylar sheets covering color infrared aerial photographs of the area. These map sheets have been labeled and checked for complete information, and are now prepared for digitizing into a Geographic Information System. The digitizing process has begun and should be complete by the end of the year. This will yield a layer of vegetation data suitable for use as a map, as well as use in subsequent statistical analysis. A draft copy of this layer will be supplied to Baxter State Park once it is complete.

The other data layers required for the analyses are exposure parameters, including elevation, slope, aspect, and concavity-convexity. The first three layers have been created, although we are currently looking at issues of scale, and may end up varying and recreating these layers in the future. The process for creating these data layers is not time consuming, and it is more a question of determining the best data for the analysis before proceeding. Statistical analysis of the complete data set to determine percent frequency by alpine vegetation community type, and relationships of location of different alpine vegetation community type with environmental exposure factors should begin in January, 1999, with results complete by February/March. From there, the project should proceed according to the schedule outlined in the original proposal, with final copies of reports and maps supplied to Baxter State Park in mid-1999.

In addition to preparing the field data for analysis, we are interested in focusing on providing some useful products for meeting management and education goals at Baxter State Park. Some of the more obvious derivatives include statistical information regarding the miles of hiking trails through each community type (combining the information gathered from AMC's trail mapping project), and interpretive displays including maps of the alpine vegetation communities, and descriptions of each community type. Any ideas, input, or feedback that you can provide would be helpful in creating derivative products that would be truly useful to Baxter State Park. For example, if information on the amount of hiking trails through each community type is of interest, would this information be most useful as miles of trails through each community type, or would information including a buffer zone (impact zone) along the trail indicating the area of each community type impacted be more useful. If the latter, what would be an appropriate size for the buffer zone. While the above types of details can be worked out at a later date, any guidance on how our information can aid in meeting the Park's goals would help us in planning at this stage.

Finally, we are hoping to get all expenses from this summer's field season included in this year's fiscal budget. If it is possible to get a dollar figure for reimbursement of propane costs from this summer in the next couple of weeks, it would make this possible.

Again, thanks for the opportunity to speak before the Research Committee in September. I enjoyed the chance to provide a preliminary look at the ongoing work of this project. I'm hoping to return in the not too distant future and get up into the Park sometime in the next few months to at least glance upon Katahdin in its winter glory.

Sincerely,

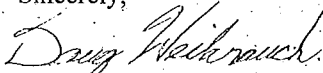

Doug Weihrauch

Table 1. Alpine natural community nomenclature and dominant plant species.

AMC	Cogbill and Hudson (1990)	Sperduto (1994) NHHI	Bliss (1963)	Dominant Species	Potentially Common Species
Krummholz	Krummholz	Subalpine Krumholtz	Krummholz	<i>Abies balsamea</i> (balsam fir) <i>Picea mariana</i> (black spruce)	Highly variable. Influenced by surrounding communities and changes in microclimate and topography
Birch-Alder	None	None	None	<i>Betula papyrifera</i> (paper birch) <i>Alnus crispa</i> (mountain alder)	<i>Abies balsamea</i> <i>Picea mariana</i>
Fellfield	None	Fellfield	Felsenmeer	<i>Rhizocarpon geographicum</i> (map lichen) <i>Parmelia centrifuga</i> (ring lichen) <i>Umbilicaria hyperborea</i> (rock tripe)	Highly variable. Influenced by changes in microclimate and topography.
Sedge Meadow	Sedge Meadow	Heath-Meadow (Sedge Meadow association)	Sedge Meadow	<i>Carex bigelowii</i> (Bigelow's sedge)	<i>Arenaria groenlandica</i> (mountain sandwort) <i>Vacc. vitus-idaea</i> (mountain cranberry) <i>Vacc. uliginosum</i> (alpine bilberry)
		Heath-Meadow (Sedge-Heath-rush association)	Sedge-Dwarf Shrub Heath	<i>Carex bigelowii</i> <i>Juncus trifidus</i> (highland rush)	<i>Vacc. vitus-idaea</i> <i>Vacc. uliginosum</i> <i>Potentilla tridentata</i> (three-toothed cinquefoil) <i>Arenaria groenlandica</i>
			Sedge-Rush-Dwarf Shrub Heath		
Heath-Shrub-Rush	Alpine Heath	Heath-Meadow (Heath-Rush association)	Dwarf Shrub Heath-Rush	<i>Vacc. vitus-idaea</i> <i>Vacc. uliginosum</i> <i>Juncus trifidus</i>	<i>Potentilla tridentata</i>
		Heath Snowbank	Dwarf Shrub Heath	<i>Ledum groenlandicum</i> (Laborador tea) <i>Vacc. vitus-idaea</i> <i>Vacc. uliginosum</i> <i>Empetrum nigrum</i> (black crowberry)	<i>Cassiope hypnoides</i> (cassiope) <i>Loisleuria procumbens</i> (alpine azalea) <i>Phyllodoce caerulea</i> (phyllodoce) <i>Arctostaphylos alpina</i> (alpine bearberry)
Herbaceous Snowbank	Snowbank	Herbaceous Snowbank Meadow	Snowbank	<i>Deschampsia flexuosa</i> (hairgrass) <i>Solidago cutleri</i> (Cutler's goldenrod) <i>Vacc. caespitosum</i> (dwarf bilberry) <i>Houstonia caerulea</i> (alpine bluets) <i>Vacc. uliginosum</i>	<i>Veratrum viride</i> (false hellebore) <i>Clintonia borealis</i> (blue-bead lily) <i>Geum peckii</i> (mountain avens) <i>Phleum alpinum</i> (alpine timothy) <i>Castilleja septentrionalis</i> (pale painted cup)
Cushion-Tussock	Diapensia	Diapensia	Diapensia	<i>Diapensia lapponica</i> (diapensia) <i>Juncus trifidus</i> <i>Rhododendron lapponicum</i> (Lapland rosebay) <i>Loisleuria procumbens</i> <i>Vacc. uliginosum</i>	<i>Solidago cutleri</i> <i>Salix uva-ursi</i> (bearberry willow) <i>Agrostis borealis</i> (boreal bentgrass) <i>Arenaria groenlandica</i>

AMC	Cogbill and Hudson (1990)	Sperduto (1994) NHHI	Bliss (1963)	Dominant Species	Potentially Common Species
None	None	Alpine Streamside	Alpine Streamside	<i>Salix planifolia</i> (tea-leaved willow) <i>Salix argyrocarpa</i> (silver willow) <i>Salix herbacea</i> (dwarf willow)	<i>Calamagrostis pickeringii</i> (Pickering's reed bent-grass) <i>Cardamine bellidifolia</i> (alpine bitter-cress) <i>Saxifraga rivularis</i> (alpine brook saxifrage) <i>Epilobium hornemanni</i> (Hornemann's willow herb) <i>Viola palustris</i> (alpine marsh violet)
Water	None	Alpine/Subalpine Bog	Alpine Bog	<i>Rubus chamaemorus</i> (cloudberry) <i>Betula glandulosa</i> (dwarf birch) <i>Empetrum atropurpureum</i> (purple crowberry) <i>Empetrum nigrum</i>	<i>Geocaulon lividum</i> (northern comandra) <i>Vacc. uliginosum</i>
None	None	Alpine Cliff	None	<i>Diapensia lapponica</i> <i>Empetrum atropurpureum</i> <i>Empetrum nigrum</i>	<i>Carex scirpoidea</i> (scirpus-like sedge) <i>Solidago cutleri</i>
None	None	Alpine Cliff/Seep	None	<i>Geum peckii</i> <i>Houstonia caerulea</i> <i>Calamagrostis neglecta</i> (neglected reedgrass)	<i>Cardamine bellidifolia</i> <i>Saxifraga rivularis</i> <i>Epilobium hornemanni</i>

ALPINE FLORA OF THE KATAHDIN TABLE LAND
AND HAMLIN PEAK

By

David L. Clark

B.S. Boston University, 1963

B.S. University of N.H., 1995

A THESIS

Submitted in Partial Fulfillment of the

Requirements for the Degree of

Master of Science

(in Botany and Plant Pathology)

The Graduate School

University of Maine

August 1998

Advisory Committee:

Christopher S. Campbell, Professor of Plant Systematics. Reproductive and
Evolutionary Biology of Forest Trees. Advisor.

Ronald B. Davis, Professor of Botany and Quarternary Studies. Limnology and
Wetland/Peatland Ecology; Late Quarternary Paleoecology including
Paleolimnology, Pollen and Diatom Analysis.

W. Donald Hudson, Jr., President, Chewonki Foundation, Wiscasset, Maine.

NOTE: Due to space/cost factors, we have only printed the abstract of this report. The entire 77 pages of
this report is filed with the Naturalist at BSP Millinocket Headquarters.

Alpine Flora of the Katahdin Table Land and Hamlin Peak

By David L. Clark

Thesis Advisor: Dr. Christopher S. Campbell

An Abstract of the Thesis Presented in Partial fulfillment of the

Requirements for the Degree of Master of Science

(in Botany and Plant Pathology)

August, 1998

Baxter State Park (BSP) is Maine's largest and most widely known wilderness area supporting an arctic-alpine environment. BSP contains some rare arctic-alpine species, some for which it is the only known location in the United States and some which are found only there and on Mt. Washington in New Hampshire. The threat to these rare plants is ever present and growing with increasing recreational pressure. An important part of protecting these threatened plants is baseline data of their location and status. For two study sites in the arctic-alpine zone of Katahdin, Global Positioning System (GPS) locations of rare arctic-alpine species were mapped. The baseline data includes 21 arctic-alpine species. GPS measurements were checked for accuracy and precision against known reference marks. This study establishes the feasibility of GPS use for arctic-alpine zone measurements of plant locations.



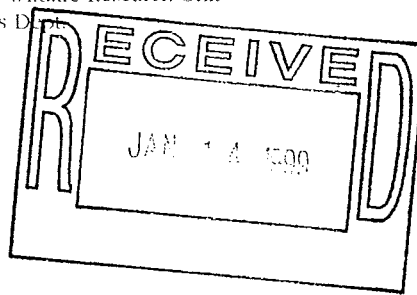
UNIVERSITY OF MAINE

Maine Cooperative Fish and Wildlife Research Unit
Fisheries-Biological Sciences Dept.
313 Murray Hall
207/581-2582
FAX 207/581-2537

Mailing Address:
Maine Coop. Fish & Wildl. Res. Unit
Fisheries-Biological Sciences Dept.
University of Maine
5751 Murray Hall
Orono, Maine 04469-5751

January 12, 1999

Mr. Irvin C. Caverly, Jr., Director
Baxter State Park
64 Balsam Drive
Millinocket, Maine 04462



Dear Mr. Caverly:

During the past year, we have conducted some research sampling in Lower Togue Pond, under a permit issued by Baxter State Park. This letter will serve as a brief progress report of our activities for 1998, along with a request to sample stomach contents from about 20 additional fishes in 1999.

As you and the Research Committee may recall, our objective has been to examine potential food competition between landlocked salmon and introduced splake. With the increased production of splake in state hatcheries and the increased stocking of this hybrid throughout the State, there has been some concern that these rapidly-growing fish might compete with landlocked salmon for food resources. We are examining this question in three lakes. Two of these are not within the Park (Piper Pond, Kingsbury Pond). The third is Lower Togue Pond, where splake and salmon co-exist.

Our sampling of these species in 1998 ultimately was much less than anticipated, partly due to the lack of capture success in spring and restrictions on boat operators imposed on Federal projects. Tom Hoffman, the graduate student conducting the day-to-day investigations, was able to obtain the necessary boat operation certification in mid-summer (in Maryland), and the project was able to proceed. As a result, salmon and splake were collected on four dates in 1998: 1 salmon by angling, and 20 salmon and 1 splake using trap nets. These methods were not harmful to the fishes and, by using stomach pumps, the fish were released back into Lower Togue Pond. Tom Hoffman and his assistant pulled the trap nets on October 23 when it became obvious that captured fish were ripe and ready to spawn. In addition, the Maine Department of Inland Fisheries and Wildlife conducted periodic monitoring studies in the Pond, and we also were able to utilize their food habit data from 3 landlocked salmon and 20 splake. These food items are currently being analyzed.

COOPERATORS
U.S. GEOLOGICAL SURVEY
MAINE DEPARTMENT OF INLAND FISHERIES AND WILDLIFE
UNIVERSITY OF MAINE, DEPARTMENT OF BIOLOGICAL SCIENCES
WILDLIFE MANAGEMENT INSTITUTE

125

THE LAND GRANT UNIVERSITY AND SEA GRANT COLLEGE OF MAINE



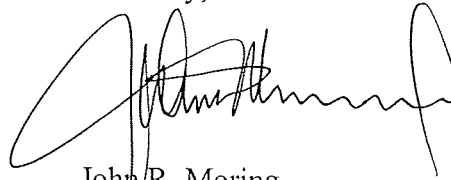
Printed on Recycled Paper

We anticipate that Tom Hoffman will complete his Master of Science thesis in December 1999. The Park office will receive a copy of the resultant thesis, as well as reprints of any papers resulting from this work.

Statistically, these sample sizes are sufficient to reach some conclusions for late summer and fall. However, samples are not sufficient to make comparisons for spring-early summer. As a result, we are requesting that we be given approval to collect stomach contents from approximately 20 landlocked salmon in the spring-early summer of 1999. I'm not sure whether this needs an additional, detailed proposal, beyond what was previously submitted, to conduct this additional work. However, I notice that our Special Service Permit No. 132 indicates sampling dates of May to October 1, 1998.

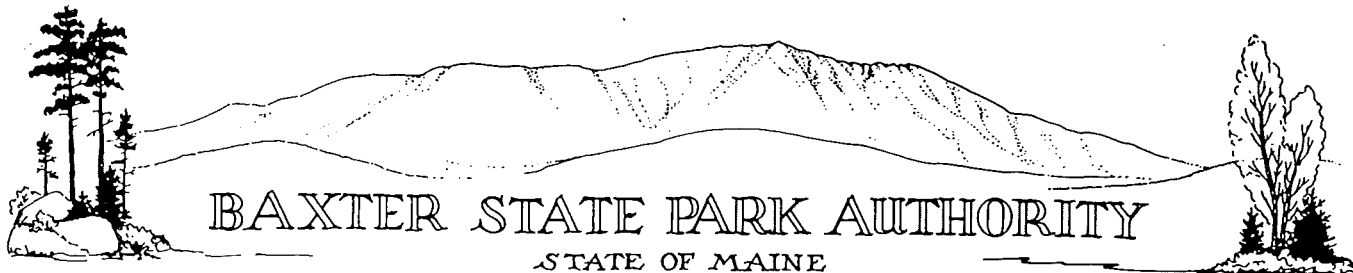
Thanks again for your cooperation in this study.

Sincerely,

A handwritten signature in black ink, appearing to read 'John R. Moring', with a large, sweeping initial 'J'.

John R. Moring
Professor of Zoology

cc: Tom Hoffman



AUTHORITY MEMBERS
CHARLES GADZIK, CHAIRMAN
DIRECTOR OF MAINE FOREST SERVICE
ANDREW KETTERER
ATTORNEY GENERAL
LEE PERRY
COMMISSIONER OF INLAND FISHERIES AND WILDLIFE

INFORMATION
(207) 723-5140

PARK HEADQUARTERS
ADMINISTRATION 723-9616
IRVIN C. CAVERLY, JR., DIRECTOR
64 BALSAM DRIVE
MILLINOCKET, MAINE 04462
(207) 723-9500

Todd Hodgman
Maine Partners in Flight
MDIFW- Bird Group
650 State Street
Bangor, ME 04401-5654

Dear Todd: *Tom*:

Hello, I apologize for taking so long to get these data sheets to you; I am finally finding time to deal with many projects that we had started early on in the season. Overall, Jean and I felt that the survey was very successful, however, we did deviate from the protocol to some degree. Due to the length of the trail and the variation of habitats, we designated eight sites (and surveyed these three times). Because we wanted each site to be recognizable to anyone doing the survey (it may not always be Jean or myself), we chose sites based on the ease of recognition rather than the 200 meter distance. This was specifically important because we cannot use any flagging or tape within the park, so the sites must be recognizable by characteristics (with photographs and directions as an aid).

The established route begins at Chimney Pond, follows the Saddle Trail, and ends approximately 200 meter beyond the top of Saddle Slide (into the tableland). Thus, this route covers the primary habitats on Katahdin. We only have one site on the tableland itself (and we did get a Bicknell's up there); one question we had was whether or not one site on the tableland was enough.

Additionally, based on our observations and by recommendations from Steve Oliveri and Norm Famous, we are considering a second survey route from Chimney Pond down to Basin Ponds that would focus solely on Bicknell's Thrush. We heard them calling and singing below Chimney Pond and it would be interesting to understand the extent of their range on Katahdin. Our hope is that some interested High School classes will take that route on as a project.

Please let us know if there are any changes that we should make for the next survey period; we would appreciate any feedback you would like to give us. I am definitely excited that a monitoring program is in place and I am already looking forward to next year.

Sincerely,

Ann Loyd
Ann Loyd - Asst Naturalist



66 TO PRESERVE AND PROTECT 99

PARTNERS IN FLIGHT
Cooperative High Elevation Bird Monitoring Program

Site Name: Chimney Pond Site#: 1a

Observer: Ann Loyd/J. Hoekwater Visit #: 1 Date: 6/11/98

Initial: Time 5:00 Wind 3 Temp. (°F) 58°F Precip. - Cloud Cover (%) Clear

Final: Time Wind Temp. (°F) Precip. Cloud Cover (%)

Station #	Species	Within 50 M Radius		Beyond 50 M Radius	
		Pair	Single	Pair	Single
1a	WIWR	Sm+			
1a	BITH	"	C		
1a	SWTH		C		
1a	BEWA	Sm+			
1a	WTSP	Sm+			
1a	WTSP	Sm+			
1a	SWTH		C		
1a	WIWR	Sm			
1a	SWTH	Sm			
2	SWTH	Sm+			
2	WIWR	Sm+			
2	WTSP		S	Sm	
2	BPWA	Sm+			
2	WTSP	Sm			
2	BPWA	Sm+			
2	BPWA	Sm			
2	SWTH			Sm+	
2	WIWR	Sm°			
2	DEJU	Sm°			
3	WIWR	SM+			
3	DEJU	Sm+			
3	WTSP	Sm			
3	WIWR			Sm+	
4	WIWR	Sm+			
4	BPWA	Sm			
4	BPWA	Sm+			
4	MAWA			Sm+	
4	WIWA			Sm+	
4	WTSP	Sm+			
4	BPWA			Sm°	
4	BITH		c°		
4	BITH		c°		

Codes Used for Breeding Evidence

Pair Codes: Nest found = NE Pair Observed = P Singing Male = SM
Single Codes: Individual Seen = I Female Seen = F Male Seen = M Call Heard = C

Place a "+" next to each code if the pair or single was seen or heard during minutes 4 or 5
Place a "0" next to each code if the pair or single was seen or heard during the last 5 minutes

PARTNERS IN FLIGHT
Cooperative High Elevation Bird Monitoring Program

Site Name: Chimney Pond Site#: _____

Observer: Ann Loyd/Jean Joekwater Visit #: 1 Date: 6/11/98

Initial: Time 5:00 Wind 3 Temp. (°F) 58 °F Precip. - Cloud Cover (%) Clear

Final: Time 8:10 Wind 3 Temp. (°F) 68 °F Precip. - Cloud Cover (%) Clear

Station #	Species	Within 50 M Radius		Beyond 50 M Radius	
		Pair	Single	Pair	Single
4	DEJU	Sm°			
4	SWTH	Sm°			
5	WIWR	Sm+			
5	BPWA	Sm+			
5	WIWR			Sm	
5	BPWA	Sm			
5	MAWA	Sm			
6	DEJU (map)	Sm+	(Chipping	Sparrow?)	
6	WTSP	Sm+			
6	Unknown	Sm+	(Warbler)		
6	WIWR	Sm+			
6	CHSP	Sm+			
7	DEJU	Sm+			
7	WTSP			Sm+	
7	WTSP			Sm+	
7	DEJU	Sm°			
7	AMPI				C
7	BITH?		c°		
8	DEJU	Sm			
8	WTSP	Sm			
8	WTSP			Sm	
8	WIWR			Sm	
8	DEJU	Sm			
8	DEJU	Sm°			
8	CORA		c°		

Codes Used for Breeding Evidence

Pair Codes: Nest found = NE Pair Observed = P Singing Male = SM
Single Codes: Individual Seen = I Female Seen = F Male Seen = M Call Heard = C

Place a "+" next to each code of the pair or single was seen or heard during minutes 4 or 5
Place a "0" next to each code if the pair or single was seen or heard during the last 5 minutes

PARTNERS IN FLIGHT
Cooperative High Elevation Bird Monitoring Program

Site Name: Chimney Pond Site#: 1

Observer: Ann Loyd/Jean Hoekwater Visit #: 2 Date: 6/12/98

Initial: Time 4:30am Wind 4+ Temp. (°F) 55°F Precip. - Cloud Cover (%) Clear

Final: Time Wind Temp. (°F) Precip. Cloud Cover (%)

Station #	Species	Within 50 M Radius		Beyond 50 M Radius	
		Pair	Single	Pair	Single
1	WIWR	Sm+			
1	BPWA	Sm+			
1	SWTH			Sm+	
1	BPWA	Sm+			
1	WIWR			Sm+	
1	WTSP			Sm+	
1	WIWR			Sm°	
2	WIWR	Sm+			
2	SWTH	Sm+			
2	BPWA	Sm+			
2	SWTH			Sm+	
2	AMRO			Sm°	
2	WIWR			Sm°	
3	BPWA	Sm+			
3	WIWR			Sm+	
3	WIWR	Sm+			
3	DEJU	Sm+			
3	MAWA	Sm+(check)			
3	WTSP	Sm+			
3	BCCH	Sm			
3	WTSP	Sm			
3	Wolfcaller		C		
4	BPWA	Sm+			
4	WIWR	Sm+			
4	MAWA?	Sm+			
4	WIWR			Sm+	
4	BITH	Sm+	C		
4	BITH	Sm+	C		
4	WTSP	Sm+			
4	WIWR	Sm+			
4	MAWA?	Sm°			
5	WIWR	Sm+			
5	WIWR			Sm+	

Codes Used for Breeding Evidence

Pair Codes: Nest found = NE Pair Observed = P Singing Male = SM
Single Codes: Individual Seen = I Female Seen = F Male Seen = M Call Heard = C

Place a "+" next to each code if the pair or single was seen or heard during minutes 4 or 5
Place a "0" next to each code if the pair or single was seen or heard during the last 5 minutes

PARTNERS IN FLIGHT
Cooperative High Elevation Bird Monitoring Program

Site Name: Chimney Pond Site#: 1

Observer: Ann Loyd/Jean Hoekwater Visit #: 2 Date: 6/12/98

Initial: Time 4:30 Wind 4+ Temp. (°F) 55°F Precip. - Cloud Cover (%) Clear

Final: Time 7:20 Wind 5-7 Temp. (°F) 55°F Precip. - Cloud Cover (%) Clear

[illegible]

Codes Used for Breeding Evidence

Pair Codes: Nest found = NE Pair Observed = P Singing Male = SM
Single Codes: Individual Seen = I Female Seen = F Male Seen = M Call Heard = C

Place a "4" next to each code if the pair or single was seen or heard during minutes 4 or 5
Place a "0" next to each code if the pair or single was seen or heard during the last 5 minutes

PARTNERS IN FLIGHT
Cooperative High Elevation Bird Monitoring Program

Site Name: Katahdin Site#: 1

Observer: AL/JH/AJ Visit #: 3 Date: 6/19/98

Initial: Time 4:40 Wind 0-1 Temp. (°F) 58°F Precip. - Cloud Cover (%) 2°

Final: Time 7:40 Wind 0-1 Temp. (°F) 63°F Precip. - Cloud Cover (%) 100%

Station #	Species	Within 50 M Radius		Beyond 50 M Radius	
		Pair	Single	Pair	Single
1	BPWA	Sm			
1	BPWA	Sm			
1	BITH	Sm			
1	SWTH	Sm+			
1	WIWR	Sm+		Sm	
1	WIWR				
1	SWTH	Sm+			
1	SWTH	Sm+			
1	WIWR	Sm°			
1	WTSP	Sm°			
2	SWTH	Sm			
2	WIWR	Sm+			
2	WIWR			Sm+	
2	BPWA	Sm+			
2	BPWA			Sm+	
2	WTSP			Sm°	
2	WTSP			Sm°	Twrd CP
3	LEFC	Sm+			
3	BPWA	Sm+			
3	WTSP	Sm+			
3	SWTH	Sm+			
3	WIWR	Sm			
3	SWTH			Sm+	
3	WIWR	Sm+			
3	CSWA			Sm+	
3	BPWA	Sm°			
3	PISI		C/I		
3	WIWR	Sm+			
3	BITH		C/Sm+		
3	WIWR			Sm+	
3	BLRW			Sm+	
5	BPWA	Sm+			
5	WIWR	Sm+			

Codes Used for Breeding Evidence

Pair Codes: Nest found = NE Pair Observed = P Singing Male = SM
Single Codes: Individual Seen = I Female Seen = F Male Seen = M Call Heard = C

Place a "+" next to each code if the pair or single was seen or heard during minutes 4 or 5
Place a "0" next to each code if the pair or single was seen or heard during the last 5 minutes

PARTNERS IN FLIGHT
Cooperative High Elevation Bird Monitoring Program

Site Name: North Traveler Site#: _____

Observer: LiTudor/MCarson Visit #: 1 Date: 6/9/98

Initial: Time 0607 Wind 3 Temp. (°F) 40°F Precip. 0 Cloud Cover (%) 0

Final: Time 0713 Wind 3 Temp. (°F) 45° Precip. 0 Cloud Cover (%) 0

Station #	Species	Within 50 M Radius		Beyond 50 M Radius	
		Pair	Single	Pair	Single
1	BITH	Sm			
1	BITH			Sm	
1	SCJU	Sm+			
1	WTSP	Sm			
1	WTSP			Sm°	
1	WIWR			Sm	
1	GCKI			Sm°	
1	BHVI			Sm°	
2	WTSP	Sm			
2	PUFI	Sm			
2	PUFI	Sm			
2	SCJU	Sm			
2	SCJU	Sm			
2	MAWA	Sm+			
2	WIWR	Sm+			
2	MYWA			Sm°	
3	BITH			Sm°	
3	BLPW	Sm			
3	NAWA	Sm			
3	MAWA			Sm	
3	WTSP			Sm+	
4	NAWA	Sm			
4	MAWA	Sm°			
4	WTSP			Sm	
4	WTSP			Sm°	

Codes Used for Breeding Evidence

Pair Codes: Nest found = NE Pair Observed = P Singing Male = SM
Single Codes: Individual Seen = I Female Seen = F Male Seen = M Call Heard = C

Place a "+" next to each code if the pair or single was seen or heard during minutes 4 or 5
Place a "0" next to each code if the pair or single was seen or heard during the last 5 minutes

MT. PATROL DATA 1998
(Based in 34 Patrols)

<u>Observation Point</u>	<u># of times this this observation Point was used</u>	<u>Min-max numbers seen during 34 patrols</u>	<u>Average number seen in a Patrol</u>
Baxter Peak	44	0-55	22
South Peak	2	8, 19	14
Chimney Peak	1	5	5
Pamola Peak	11	0-16	7
Knife Edge	7	11-45	21
Hamlin	14	0-10	3
Saddle	36	0-27	7
Cathedral	2	2-12	7
Thoreau Spring	23	0-43	10
Caribou Spring	2	0, 8	6
Baxter Cut-off	12	0-36	7
Gateway-Hunt Trail	2	1,20	10

E. ADMINISTRATIVE SERVICES

I PERSONNEL

Resignations due to retirement or the opportunity for full-time employment always result in transfers within the Park and eventually opportunities for new hires.

Retirements

Janice Caverly – Clerk III – Park Headquarters
Bernard Crabtree – BSP Ranger I

Resignations

Dave Chase – Campground Ranger I – Abol
John Doe – Gatehouse Attendant – Togue
Phil Hill – Gatehouse Attendant – Matagamon
Heather lee – Campground Attendant – Roaring Brook
Chad Marin – Campground Attendant – Togue Pond
Reggie Moore – Laborer I
Wendy Roberts – Gatehouse Attendant – Togue Pond
Alan Watson – Trail Crew Leader

Transfers

Dan Andersen – Campground Ranger (Acting Capacity) – Trout Brook Farm
Mary Ellen Bell – Clerk III – Park Headquarters
Brendan Curran – BSP Ranger I (Acting Capacity)
Tom Lohnes – Campground Ranger I (Acting Capacity) – Russell Pond
Mark Varney – Campground Ranger I – Nesowadnehunk
Jodi Tollett-Browning – BSP Ranger I

New Hire

Robin Burgess – Clerk II – Park Headquarters
Ed Cunningham – Trail Crew Leader
Kevin Donnell – Campground Attendant – Roaring Brook
Elizabeth Johnston – Account Clerk II
Tom Lohnes – Gatehouse Attendant – Matagamon
Ann Loyd – Naturalist Assistant
Chad Marin – Gatehouse Attendant – Togue Pond
Verda Peabody – Gatehouse Attendant (Acting Capacity) – Togue Pond
Ryan Smith – Campground Attendant (Acting Capacity) – So. Branch Pond
Adam Stanley – Laborer I
Rachel Ste. Croix – Gatehouse Attendant (Acting Capacity) – Togue Pond
Bryan Swenson – Forestry Aide – SFMA
Connie Theriault – Clerk II – Park Headquarters
Helen Wood – Gatehouse Attendant – Matagamon

II TRAINING

JUNE - Fire Training – Trail Crew, CA's, CRI's
Solo Wilderness Medicine – CA's, CRI's
Bloodborne Pathogens – CA's, CRI's
Chainsaw Safety – CA's, CRI's, Trail Crew

III CONTRACT SERVICES

Rubbish Removal – Dave Condon/White Knight
Janitorial Services – Jason Hafford
Firewood Bundling – Jim Cunningham
SFMA Forest Operations/Road Construction – Pelletier Bros. Inc.
Forest Management Services – John Mills
Trail Crew – Student Conservation Association
Septic Tank Pumping – Cal's Septic
Building Construction – Herring Builders, Inc.
Rob Brown

IV DONATION ACCOUNT

As of December 31, 1997, the balance of the Donation Account was \$2,614.81. The following purchases were made:

1 Old Town Discovery Canoe	\$369.00
1 fax machine and set of dishes for search and rescue housing	\$793.96

Following is a list of donors for 1998:

Dr. Edward and Deborah Dwyer	\$ 25
James D. Malumphy	100
Through Reservations	70
Brewer Garden & Bird Club	25
Through Reservations	72
Michael Perry	50
David DeLuca	45
Robert Tice	45
Laurence Lovejoy	60
Mr. & Mrs. Arnold Baron	1,600
Penobscot County Conservation Assoc. Inc.	150
Richard F. Brooks	1,000
Anonymous	498
Howard Moore	10

Tom Lynch/Lessie Farrell	25
Mr. & Mrs. John Jaquette	25
Ted Flach	20
Lee-Rae Jordan-Oliver	25
Through Reservations	108

V 1998 RESERVATION OFFICE

We experienced many interesting changes in the Reservation Office in 1998. Long-time Reservation Supervisor, Jan Caverly, retired the first of the year. Another Reservation employee, Mary Ellen Bell, was appointed to the Supervisor position in March. Robin Burgess and Connie Theriault were appointed in the spring, joining Gladys Hanson as Reservation Clerk II's.

The Reservation Office handles all the summer and winter reservations for the entire Park. Their other job responsibilities include recording the weather daily, maintaining the radio log during the off season, answering numerous phone calls and answering requests by radio from the field. We had personal contact with over 31,000 people this past year.

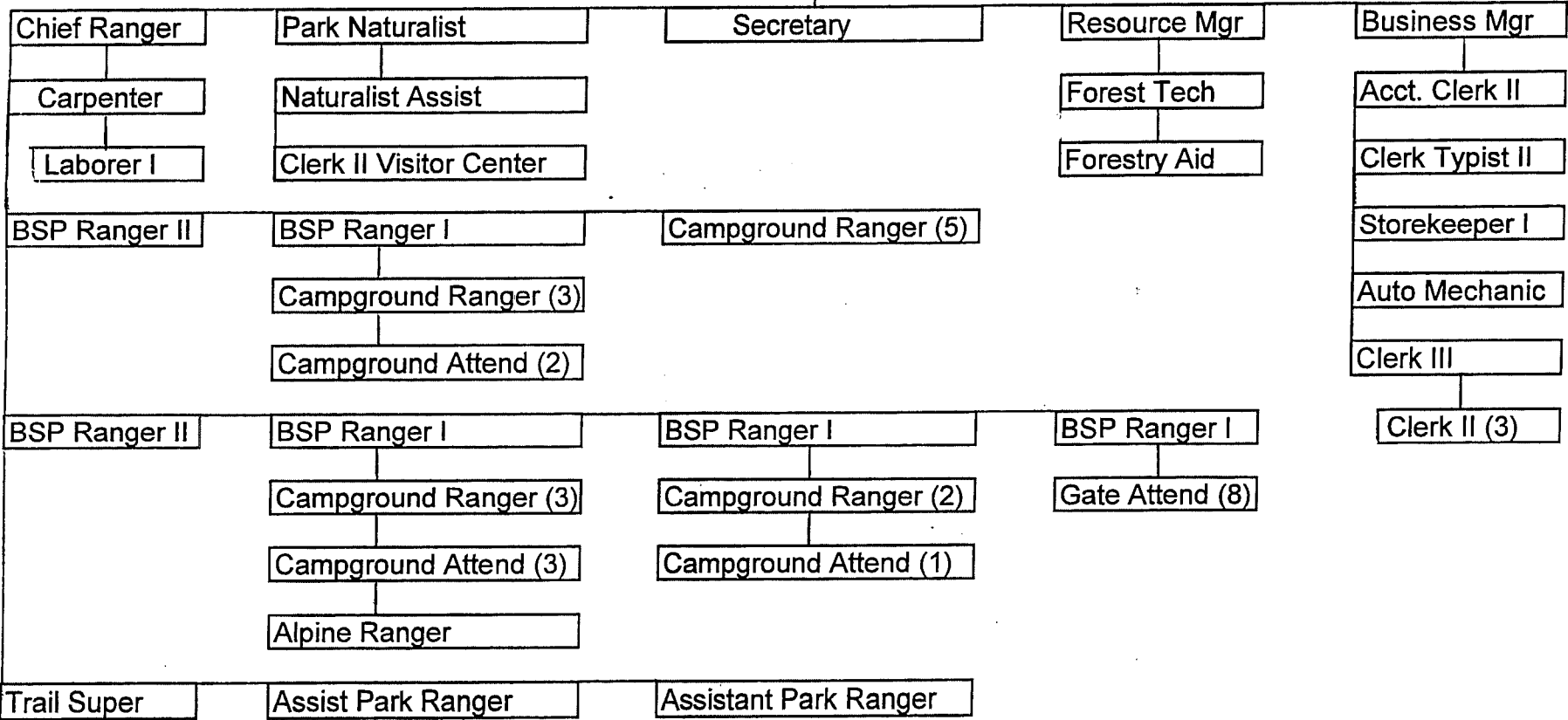
A second answering machine was added to help with the overflow of phone calls (over 20,000 phone calls received in 1998). A computer was installed in the fall to act as a database for winter reservations and to also act as a database for other pertinent information.

Below are some of the statistics from the 1998 season:

	<u>Phone Calls</u>	<u>Office Visitors</u>	<u>Letters Mailed</u>	<u>Info Packets Mailed</u>
January	1,222	699	732	352
February	1,225	280	870	362
March	1,694	339	983	445
April	1,637	320	292	454
May	1,830	638	411	68
June	2,253	1,110	441	156
July	2,906	3,692	372	594
August	3,229	2,467	284	431
September	2,317	1,110	143	250
October	962	464	26	159
November	412	94	36	135
December	<u>721</u>	<u>65</u>	<u>49</u>	<u>387</u>
Totals	20,408	11,278	4,639	3,793

BAXTER STATE PARK
 Attorney General
 Commissioner, Inland Fisheries & Wildlife
 Director, Maine Forest Service

PARK DIRECTOR



YEAR-ROUND POSITIONS - 1998

<u>Title/ Position Number:</u>	<u>Name:</u>	<u>Location:</u>
BSP Director 9429-0811	Irvin C. Caverly, Jr.	Headquarters, Mlkt.
BSP Chief Ranger 9428-0966	Chris M. Drew	Headquarters, Mlkt.
Forester II 9428-0968	D. Jensen Bissell	Headquarters, Mlkt.
Forest Technician 9456-0121	W. MacPherson Browning	Headquarters, Mlkt.
BSP Naturalist 9214-0947	Jean Hoekwater	Headquarters, Mlkt.
Sec. to Director 0005-0969	Roxanna McLean	Headquarters, Mlkt.
Bus. Mgr. I 0041-0985	Malcolm Coulter, Jr.	Headquarters
Acct. Clerk II 0312-1081	Elizabeth Johnston	Headquarters, Mlkt.
Clerk Typist II 0012-0871	S. Jean Howes	Headquarters, Mlkt.
Storekeeper I 0231-0927	Rosemary James	Headquarters, Mlkt.
Clerk III 0003-0091	Mary Ellen Bell	Headquarters, Mlkt.
Auto Mechanic II 8303-0926	Timothy Sides	Headquarters, Mlkt.
Carpenter 8201-0041	Albert Rickards	Headquarters, Mlkt.
BSP Ranger II 9404-0946	Barry MacArthur	Field
9404-0945	Robert E. Howes	Field
BSP Ranger I 9434-0972	Thomas P. Chase	Field
9434-0944	Loren Goode	Field
9434-0943	Brendan Curran (Act. Cap)	Field
9434-0942	Charlie Kenney	Field
Trail Crew Supervisor 9435-0141	Lester Kenway	Field

SEASONAL POSITIONS - 1998

<u>Title/Position Number</u>	<u>Name/Location</u>	<u>Wks</u>	<u>Start</u>	<u>End</u>	<u>Ext.Date</u>
CAMPGROUND RANGERS					
9425-0631	Mark Varney	- Nesowadnehunk	20	5-31	10-17
9425-0021	Tom Lohnes***	- Russell Pond	24	5-10	10-24
9425-0221	Keith Smith	- So. Branch Pond	24	5-10	10-24
9425-0351	Greg Hamer	- Chimney Pond	24	5-10	10-24
9425-0641	Stewart Guay	- Roaring Brook	24	5-10	10-24
9425-0601	Dave Chase	- Abol	24	5-10	10-24
9425-0391	Bruce White	- Katahdin Stream	24	5-10	10-24
9425-0611	Dan Andersen***	- Trout Brook	20	5-31	10-17
9425-0983	Jodi Tolleit-Browning	- Kidney Pond	25	5-3	10-24
9425-0982	Neal Sleeper	- Kidney Pond	25	5-3	10-24
9425-0980	Marcia Williamson	- Daicey Pond	25	5-3	10-24
9425-0981	Gabe Williamson	- Daicey Pond	25	5-3	10-24
9425-0986	Joanna Thorpe	- Daicey/Kidney Pond	25	5-3	10-24
CAMPGROUND ATTENDANTS					
9424-0841	Frank Taylor	- Chimney Pond	18	5-31	10-3
9424-0741	Kevin Donnell	- Roaring Brook	18	5-31	10-3
9424-0922	Ryan Smith***	- So. Branch Pond	18	5-31	8-22
	Ed Cunningham***	- So. Branch Pond		8-23	10-3
9424-0831	Dan Randall	- Russell Pond	14	5-24	8-29
9424-0421	Christian McGinn	- Katahdin Stream	18	5-31	10-3
9424-0461	Michael Martin	- Abol	14	5-17	8-22
9424-0978	Sara McBride	- Togue Pond	14	5-17	8-22
GATEHOUSE ATTENDANTS					
9422-0171	Jennifer Hall	- Togue Pond	23	5-10	10-17
9422-0511	Wendy Roberts	- Togue Pond	23	5-10	10-17
	Sarah McBride***			8-23	10-17
9422-0361	Dana Miller	- Matagamon	23*	5-10	10-17
9422-0441	Helen Wood***	- Matagamon	23	5-10	10-17
	Tom Lohnes	- Matagamon			10-17
9422-0201	Ted Hanson	- Matagamon	23*	5-10	10-17
9422-0501	Diane Freelove	- Togue Pond	23	5-10	10-17
9422-0531	Rachel Ste. Croix***	- Togue Pond	20	5-17	10-3
9422-0541	Chad Marin	- Togue Pond	12	5-31	8-22
	Verda Peabody ***	- Togue Pond		8-11	8-22
TRAIL CREW					
9209-0940	Nikolas Rogers	- Assistant Pk. Rgr.	14	5-10	8-15
9209-0984	Edward Cunningham	- Assistant Pk. Rgr.	14	5-10	8-15
RESERVATION OFFICE					
0002-0731	Robin Burgess	- Clerk II	40	1-2	10-8
0002-0941	Gladys Hanson	- Clerk II	40	1-2	10-8
9210-0967	Connie Theriault	- Clerk II	40	1-2	10-8
VISITOR CENTER					
0002-0977	Nancy Moxley	- Clerk II	20	5-24	10-10
8001-0965	Adam Stanley	- Laborer I	14	5-24	8-29
8002-	Bryan Swenson	- Forestry Aide	14	7-1**	8-15
9425-	Ann Loyd	- Naturalist Assistant	18	7-1**	9-19
	Stewart Guay	- Winter Alpine Rgr.	18	11-29	4-3-99

*These positions are budgeted for a longer period and will be reviewed on an as needed basis

**These positions will have a shorter season in 1998

***Acting-Capacity

Opening Day Statistics								
		1999				1998		
				Three Day				Three Day
	1st day	2nd day	3rd day	Total	1st day	2nd day	3rd day	Total
Visitors								
resident	163	115	79	357	195	89	78	362
non-resident	<u>36</u>	<u>5</u>	<u>1</u>	<u>42</u>	<u>51</u>	<u>3</u>	<u>2</u>	<u>56</u>
Totals	199	120	80	399	92	91	80	418
Phone Calls	244	130	96	470	145	152	107	404
Information Packets								
Mailed	84	19	13	116	34	28	50	112
Money Collected at Counter	49,084	19,473	14,476	83,032	50,930	3,332	17,383	71,387
Three Day Total 1999		83,032						
Three Day Total 1998		<u>71,645</u>						
Difference		\$11,387						
Mail Received for Reservations	737	88	77	902	560	252	53	865 1408

BAXTER STATE PARK

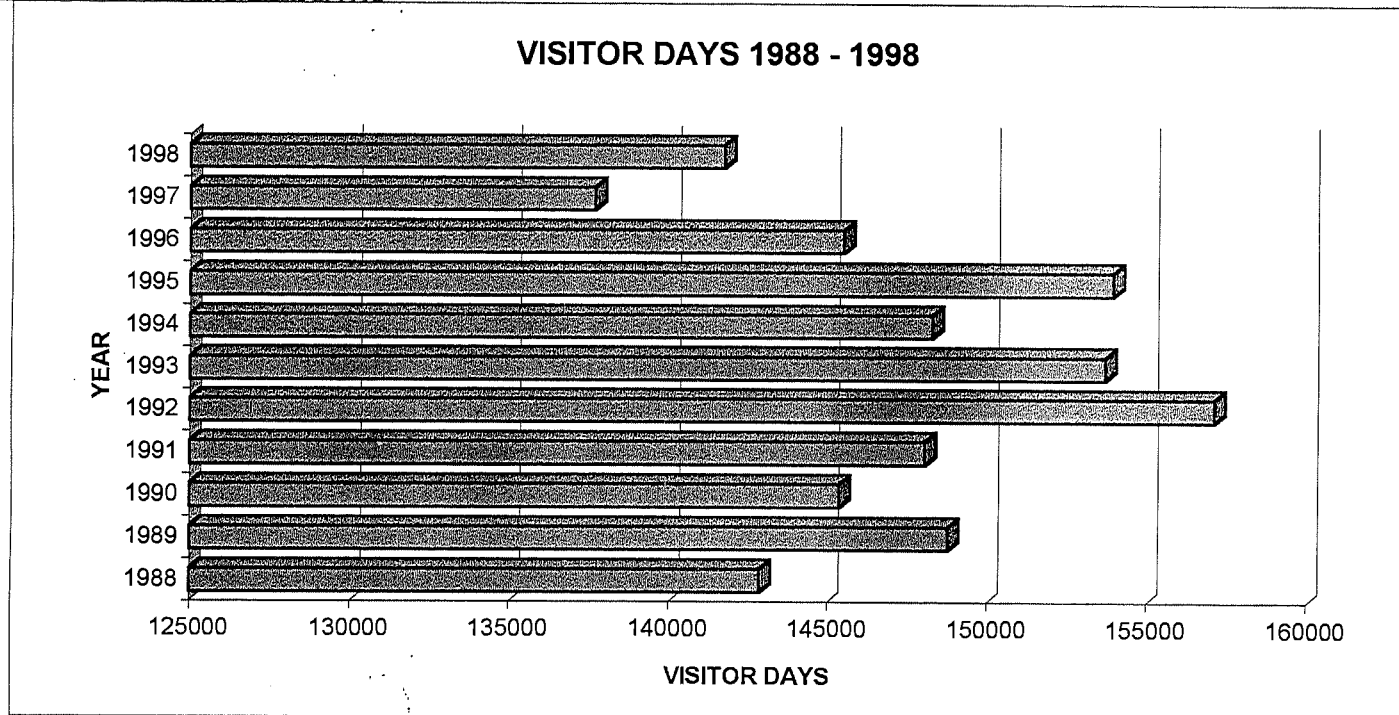
COMPARATIVE STATISTICS - VISITOR DAYS

1988 - 1998

VISITOR DAY* STATISTICS:	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
TOTAL SUMMER VISITOR DAYS	139798	145667	142358	145046	154619	152133	146148	152281	143555	135924	139558
TOTAL WINTER VISITOR DAYS	3070	3109	2992	2992	2489	1554	2124	1660	1913	1750	2161
TOTAL PARK VISITOR DAYS	142868	148776	145350	148038	157108	153687	148272	153941	145468	137674	141719

* Visitor day = camper days + gatehouse headcount
(a visitor staying in the park two nights would
spend three days in the park. Camper days
counts the nights in the Park, gatehouse
headcount adds the extra day.)

** Complete day use stats not available in 1992



BAXTER STATE PARK
1998 GATE COUNTS - PEOPLE PER MONTH

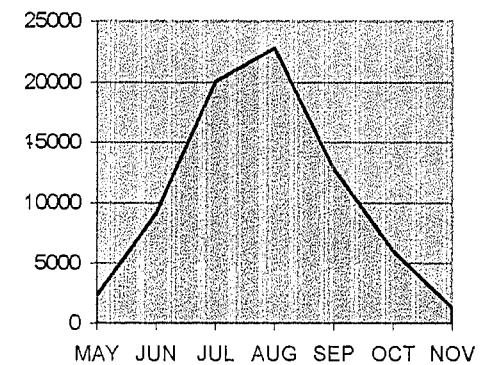
	CAMPERS			DAY USE			TRANSIENTS			WALK/ BIKE	TOTAL	
	RES	NON-RES	TOTAL	RES	NON-RES	TOTAL	RES	NON-RES	TOTAL		BY MONTH	% OF TOTAL
MAY												
Togue Pond	695	383	1078	1694	695	2389	100	34	134	1	3602	
Matagamon	105	64	169	781	113	894	27	13	40	5	1108	
Total MAY	800	447	1247	2475	808	3283	127	47	174	6	4710	6
JUNE												
Togue Pond	1780	1425	3205	2792	1615	4407	135	117	252	70	7934	
Matagamon	308	105	413	605	219	824	46	32	78	0	1315	
Total JUNE	2088	1530	3618	3397	1834	5231	181	149	330	70	9249	12
JULY												
Togue Pond	2879	2610	5489	5489	5027	10516	277	258	535	67	16607	
Matagamon	850	395	1245	1313	530	1843	179	210	389	2	3479	
Total JULY	3729	3005	6734	6802	5557	12359	456	468	924	69	20086	26
AUGUST												
Togue Pond	2585	2453	5038	6047	7347	13394	240	289	529	87	19048	
Matagamon	1034	444	1478	1045	531	1576	334	396	730	10	3794	
Total AUGUST	3619	2897	6516	7092	7878	14970	574	685	1259	97	22842	30
SEPTEMBER												
Togue Pond	1794	1808	3602	3722	3351	7073	162	234	396	32	11103	
Matagamon	366	185	551	461	155	616	207	275	482	44	1693	
Total SEPTEMBER	2160	1993	4153	4183	3506	7689	369	509	878	76	12796	17
OCTOBER												
Togue Pond	633	608	1241	2047	1768	3815	75	116	191	14	5261	
Matagamon	132	48	180	219	101	320	201	135	336	1	837	
Total OCTOBER	765	656	1421	2266	1869	4135	276	251	527	15	6098	8
November												
Togue Pond	0	0	0	310	208	518	0	0	0	0	518	
Matagamon	0	0	0	401	314	715	28	21	49	0	764	
Total NOVEMBER	0	0	0	711	522	1233	28	21	49	0	1282	2
TOTALS BY USE CATEGORY	13161	10528	23689	26926	21974	48900	2011	2130	4141	333	77063	100
% OF TOTAL USE			31			63			5	0		
% BY CATAGORY RES/NON-RES	56	44		55	45		49	51				
TOTAL % RES/NON-RES	55	45										

BAXTER STATE PARK
1998 GATE COUNT/VEHICLE PER MONTH

	VEHICLES				% OF TOTAL VEHICLES	TOTAL PEOPLE/ MONTH**	AVE. PEOPLE/ VEHICLE
	RES	NON-RES	PASS	TOTAL			
MAY							
Togue Pond	965	452	234	1651			
Matagamon	376	75	203	654			
Total MAY	1341	527	437	2305	7	4710	2.0
JUNE							
Togue Pond	1715	1207	419	3341			
Matagamon	360	151	272	783			
Total JUNE	2075	1358	691	4124	13	9249	2.2
JULY							
Togue Pond	2765	2649	383	5797			
Matagamon	776	372	453	1601			
Total JULY	3541	3021	836	7398	23	20086	2.7
AUGUST							
Togue Pond	2941	3573	590	7104			
Matagamon	783	487	551	1821			
Total AUGUST	3724	4060	1141	8925	28	22842	2.6
SEPTEMBER							
Togue Pond	2112	2205	441	4758			
Matagamon	403	272	305	980			
Total SEPTEMBER	2515	2477	746	5738	18	12796	2.2
OCTOBER							
Togue Pond	1096	1114	265	2475			
Matagamon	209	138	157	504			
Total OCTOBER	1305	1252	422	2979	9	6098	2.0
NOVEMBER							
Togue Pond	244	76	0	320			
Matagamon	67	70	116	253			
Total NOVEMBER	311	146	116	573	2	1282	2.2
TOTAL BY USE CATEGORY	14812	12841	4389	32042	100	77063	2.4
%BY CATEGORY	46%	40%	14%				

**See 1998 Gate Counts/People Per Month

PEOPLE PER MONTH - 1998



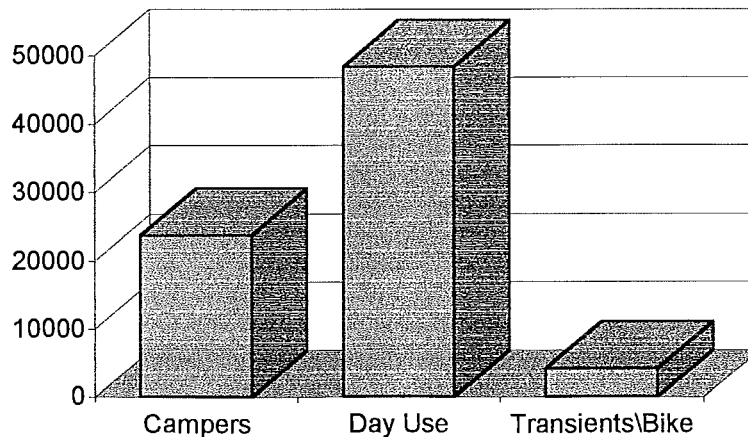
BAXTER STATE PARK
1998 GATE COUNTS - PEOPLE PER GATE

	CAMPERS			DAY USE			TRANSIENTS			WALK/ BIKE	TOTAL COUNT	% BY GATE
	RES	NON-RES	TOTAL	RES	NON-RES	TOTAL	RES	NON-RES	TOTAL			
TOGUE POND GATE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
May	695	383	1078	1694	695	2389	100	34	134	1	3602	
June	1780	1425	3205	2792	1615	4407	135	117	252	70	7934	
July	2879	2610	5489	5489	5027	10516	277	258	535	67	16607	
August	2585	2453	5038	6047	7347	13394	240	289	529	87	19048	
September	1794	1808	3602	3722	3351	7073	162	234	396	32	11103	
October	633	608	1241	2047	1768	3815	75	116	191	14	5261	
November	0	0	0	310	208	518	0	0	0	0	518	
TOGUE TOTAL	10366	9287	19653	22101	20011	42112	989	1048	2037	271	64073	83%
MATAGAMON GATE	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
May	105	64	169	781	113	894	27	13	40	5	1108	
June	308	105	413	605	219	824	46	32	78	0	1315	
July	850	395	1245	1313	530	1843	179	210	389	2	3479	
August	1034	444	1478	1045	531	1576	334	396	730	10	3794	
September	366	185	551	461	155	616	207	275	482	44	1693	
October	132	48	180	219	101	320	201	135	336	1	837	
November	0	0	0	401	314	715	28	21	49	0	764	
MATAGAMON TOTAL	2795	1241	4036	4825	1963	6788	1022	1082	2104	62	12990	17%
TOTAL GATES	13161	10528	23689	26926	21974	48900	2011	2130	4141	333	77063	

**BAXTER STATE PARK
1998 GATE COUNTS/VEHICLE PER GATE**

	VEHICLES				% OF
	RES	NON-RES	PASS	TOTAL	TOTAL
TOGUE POND GATE	-----	-----	-----	-----	
May	965	452	234	1651	
June	1715	1207	419	3341	
July	2765	2649	383	5797	
August	2941	3573	590	7104	
September	2112	2205	441	4758	
October	1096	1114	265	2475	
November	244	76	0	320	
	-----	-----		-----	
TOGUE TOTAL	11838	11276		25446	79
	RES	VEHICLES NON-RES	PASS	TOTAL	
MATAGAMON GATE	-----	-----	-----	-----	
May	376	75	203	654	
June	360	151	272	783	
July	776	372	453	1601	
August	783	487	551	1821	
September	403	272	305	980	
October	209	138	157	504	
November	67	70	116	253	
	-----	-----		-----	
MATAGAMON TOTAL	2974	1565		6596	21
TOTAL GATES	14812	12841		32042	100

**GATE HEADCOUNTS BY USE TYPE
1998**



AXTER STATE PARK

TRAIL USE SUMMARY - 1998

Registered hikes per person per trail

TRAIL USE UNITS BY MONTH

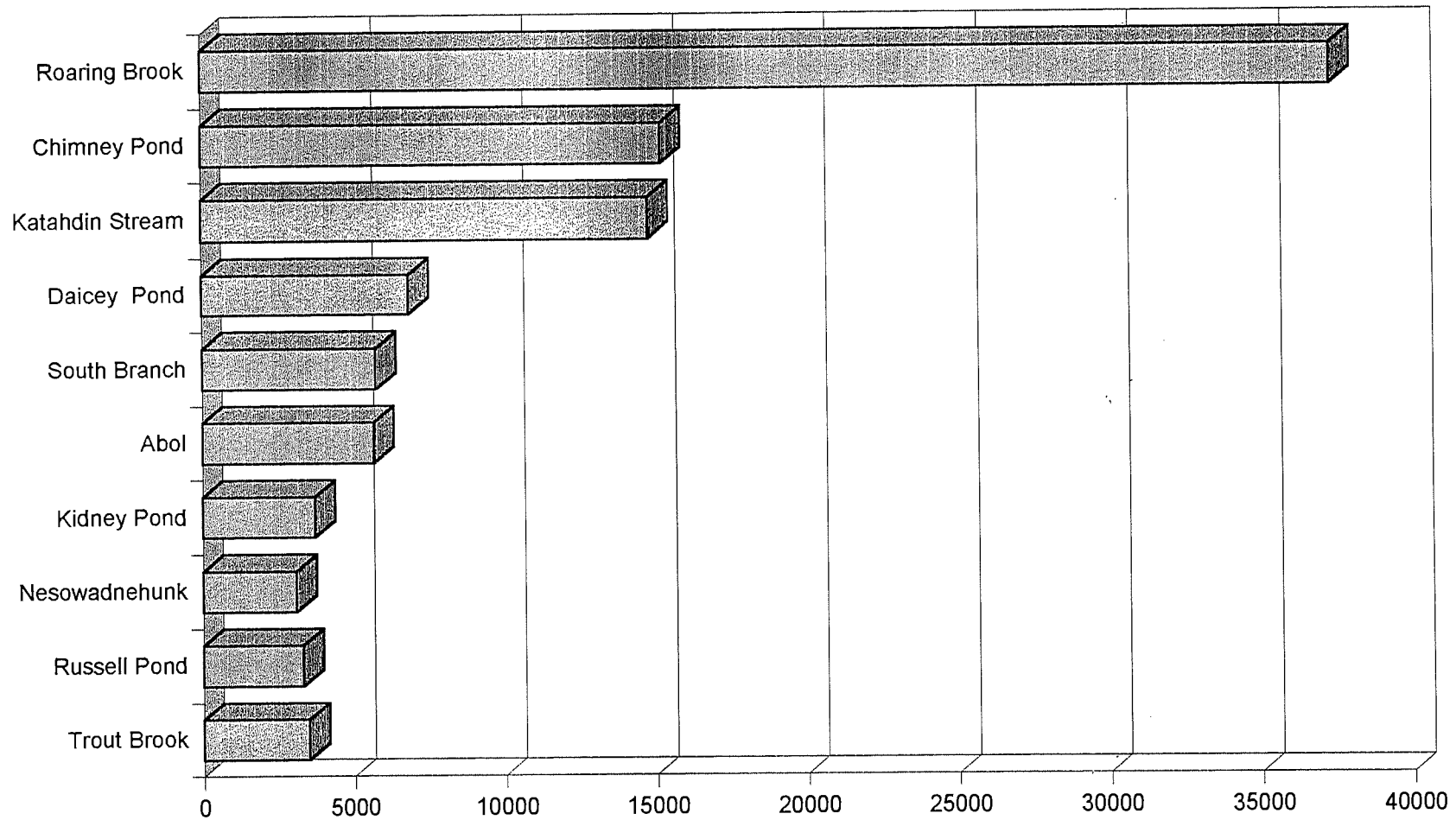
TRAIL NAME	MAY	JUN	JUL	AUG	SEPT.	OCT	TRAIL AREA TOTAL	% OF TOTAL
KATAHDIN STREAM:								
Ant	545	1376	3192	3575	1800	816	11304	
Al	106	64	290	290	136	120	1006	
Grassy Pond	138	209	548	412	292	114	1713	
J.L.	13	48	102	309	92	25	589	
T. South	21	68	38	19	7	1	154	
KATAHDIN TOTALS	823	1765	4170	4605	2327	1076	14766	15%
BOL:								
Bol Trail	332	516	1360	1601	888	197	4894	
Abol Falls	82	75	236	202	96	80	771	
BOL TOTALS	414	591	1596	1803	984	277	5665	6%
ROARING BROOK:								
Limney	148	2319	4172	4863	3059	914	15475	
Lon Taylor	42	503	1517	2080	878	123	5143	
Sandy Stream	832	1796	3815	3148	1951	877	12419	
Turner	233	163	529	462	349	211	1947	
ussell Pond	111	255	482	402	356	144	1750	
Nature Trail	18	82	153	159	91	39	542	
RRG BK TOTALS	1384	5118	10668	11114	6684	2308	37276	38%
SOUTH BRANCH POND:								
So. Branch Falls	13	16	143	78	11	15	276	
Edges	8	17	79	77	20	28	229	
owe Brook	4	44	254	315	99	30	746	
N. Traveler	32	41	308	293	149	48	871	
nter Ridge	7	10	77	68	60	13	235	
Br. Mtn.	9	27	79	114	82	30	341	
Pogy Notch	71	176	860	893	409	157	2566	
Mount Mtn.*	21	11	43	68	28	9	180	
id. Fowl. & Other	13	15	30	52	75	5	190	
Wadleigh Brook	9	8	25	34	27	15	118	
SO. BRNCH. TOTALS	187	365	1898	1992	960	350	5752	6%
ESOWADNEHUNK:								
Double Top	Closed	71	301	427	351	100	1250	
arston	Closed	91	250	418	331	102	1192	
ass. Lake Trail	Closed	26	34	48	32	12	152	
Dwelley Trail	Closed	19	137	123	152	19	450	
enter Pond	Closed	11	5	29	6	0	51	
ESO. TOTALS	0	218	727	1045	872	233	3095	3%

continued...

Registered hikes per person per trail, continued

TRAIL NAME	MAY	JUN	JUL	AUG	SEPT	OCT	TRAIL TOTAL	AREA TOTAL	% OF TOTAL
CHIMNEY POND:									
Dudley	Closed	350	667	839	433	98	2387		
Cathedral	Closed	458	1084	1482	723	97	3844		
Saddle	Closed	912	1956	2601	1407	372	7248		
Hamlin	Closed	72	169	174	165	59	639		
N. Basin	Closed	119	153	156	155	121	704		
N. Peaks	Closed	5	28	15	23	7	78		
N.W. Basin	Closed	34	65	91	94	14	298		
CHIMNEY TOTALS	0	1950	4122	5358	3000	768		15198	15%
DAICEY POND:									
Niagara Falls	227	508	1480	1574	729	272	4790		
D.P. Nature Trail	27	46	116	159	76	50	474		
Lost Pond Trail	13	27	27	64	51	14	196		
Sentinel Mt. Trail	4	11	26	12	24	21	98		
A.T. to Katahdin	4	17	84	177	151	102	535		
Daicey to Grassy	10	23	60	104	72	24	293		
Daicey to Elbow	16	22	81	110	87	27	343		
Daicey to Kidney	5	22	22	31	19	17	116		
DAICEY TOTALS	306	676	1896	2231	1209	527		6845	7%
KIDNEY POND:									
Double Top	27	89	233	504	374	145	1372		
Sentinel Mtn.	28	63	263	411	151	61	977		
Rocky Pond	55	78	83	80	123	59	478		
Draper Pond	7	22	13	38	32	11	123		
Kid. Pond Circuit	2	26	80	99	38	23	268		
Celia & Jackson	19	44	39	23	55	2	182		
Windy Pitch/Niagara/ Lily	25	41	46	111	65	19	307		
KIDNEY TOTALS	163	363	757	1266	838	320		3707	4%
RUSSELL POND:									
Russell Pond Trail	43	64	127	138	113	58	543		
Wass. Stream Trail	36	148	206	181	171	69	811		
Pogy Notch Trail	0	45	19	81	64	22	231		
Wass. Lake Trail	42	88	195	205	160	58	748		
N.W. Basin Trail	4	27	78	90	60	20	279		
N. Peaks Trail	0	0	35	37	15	1	88		
Grand Falls Trail	19	35	106	145	69	34	408		
Lookout Trail	5	19	61	74	31	17	207		
RUSSELL TOTALS	149	426	827	951	683	279		3315	3%
TROUT BROOK FARM:									
Horse Mountain	5	0	38	252	73	30	398		
Five Ponds	14	14	183	622	100	19	952		
Fowler Pond	15	36	150	231	125	20	577		
Freezeout	11	4	336	386	80	21	838		
Trout Brook Mtn.	15	61	232	330	75	16	729		
TROUT BROOK TOTALS	60	115	939	1821	453	106		3494	4%
TOTALS BY MONTH									
TOTALS BY MONTH	3486	11587	27600	32186	18010	6244		99113	100%
% OF TOTAL	4%	12%	28%	32%	18%	6%		100%	

REGISTERED HIKES BY AREA - 1998



BAXTER STATE PARK
CAMPGROUND VACANCY RATES *
1998

	# SITE-DAYS PER SEASON	# VACANT SITE	% 1997 VACANCY
CAMPGROUNDS:			
Roaring Brook	3234	738	23%
Abol	3234	975	30%
Katahdin Stream	3542	783	22%
Daicey Pond	1694	116	7%
Kidney Pond	1740	175	10%
Nesowadnehunk	2461	962	39%
South Branch	4928	2243	46%
Chimney Pond	1233	64	5%
Russell Pond	1232	50	4%
Trout Brook Farm	2055	1316	64%
Campground Totals	24755	7422	30%

OUTLYING SITES:

Webster Area	1781	1150	65%
Davis Pond	137	34	25%
Fowler Area	1096	898	82%
South Branch	462	173	37%
Wass. Area	462	8	2%
Nesowadnehunk	306	144	47%
Outlying Site Totals	4546	2263	50%

* These tables reflect the rate at which sites were occupied regardless of whether or not the site was filled to capacity. Tabulations include campground and outlying sites only (bunkhouse & group areas excluded).

BAXTER STATE PARK

Camper Day Summary

1998

CAMPGROUNDS							% OF SUMMER						% OF WINTER		ANNUAL		% OF PARK
	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	SUMMER TOTAL	CAMPER DAY	DEC.	JAN.	FEB.	MAR.	WINTER TOTAL	CAMPER DAY	CAMP-DAY TOTAL		
Roaring Brook	429	1261	2031	2063	1502	569	7855	16%	29	71	245	202	547	25%	8402	16%	
Abol	242	914	1565	1618	1128	285	5752	12%	0	8	36	14	0	0%	5752	11%	
Katahdin Stream	501	942	1827	1924	1178	554	6926	14%	0	12	0	0	12	1%	6938	13%	
Daicey Pond	346	724	968	933	805	387	4163	8%	0	26	46	32	104	5%	4267	8%	
Kidney Pond	163	718	1023	1096	896	428	4324	9%	12	5	84	89	190	9%	4514	9%	
Nesowadnehunk	CLOSED	312	1335	1705	464	117	3933	8%	0	96	30	30	156	7%	4089	8%	
Trout Brook Farm	26	137	534	968	180	23	1868	4%	8	30	126	75	239	11%	2107	4%	
S. Branch Pond	236	796	2546	2982	1295	338	8193	17%	0	0	6	10	16	1%	8209	16%	
Russell Pond	130	389	737	841	521	200	2818	6%	4	0	59	21	84	4%	2902	6%	
Chimney Pond	CLOSED	608	970	979	780	363	3700	7%	41	74	280	418	813	38%	4513	9%	
Campground Total	2073	6801	13536	15109	8749	3264	49532	79%	94	322	912	891	2161	100%	51693	80%	
GROUP AREAS																	
Avalanche Field	97	477	845	778	460	115	2772	30%							2772	30%	
Foster Field	123	377	910	738	314	80	2542	27%							2542	27%	
Nesowadnehunk	CLOSED	231	759	743	273	16	2022	22%	C L O S E D						2022	22%	
Trout Brook Farm	15	173	425	601	136	24	1374	15%							1374	15%	
Abol Scout Area	55	105	166	140	43	36	545	6%							545	6%	
Group Area Total	290	1363	3105	3000	1226	271	9255	15%							9255	14%	
OUTLYING SITES																	
S. Branch Pond	28	93	198	177	171	62	729	20%							729	20%	
Fowler	0	83	131	182	59	8	463	12%							463	12%	
Webster	5	78	197	404	152	17	853	23%							853	23%	
AT Shelter	12	29	47	55	39	10	192	5%	C L O S E D						192	5%	
Davis	0	29	66	72	51	15	233	6%							233	6%	
Wassataquoik Area	31	91	161	220	182	76	761	21%							761	21%	
Mat.High Adv.	0	0	230	247	0	0	477	13%							1018	11%	
Outlying Total	76	403	1030	1357	654	188	3708	6%							3708	6%	
TOT. CAMPER DAYS	2439	8567	17671	19466	10629	3723	62495	100%	94	322	912	891	2161	100%	64656	100%	
% OF PARK TOTAL	4%	13%	27%	30%	16%	6%	97%		0%	0%	1%	1%	3%		100%		

BAXTER STATE PARK
COMPARATIVE STATISTICS - CAMPER DAYS
1988 - 1998

TOTAL CAMPER DAYS (62,495)

TOTAL CAMPERS (23,689)

2.64 DAYS PER CAMPER (Summer)

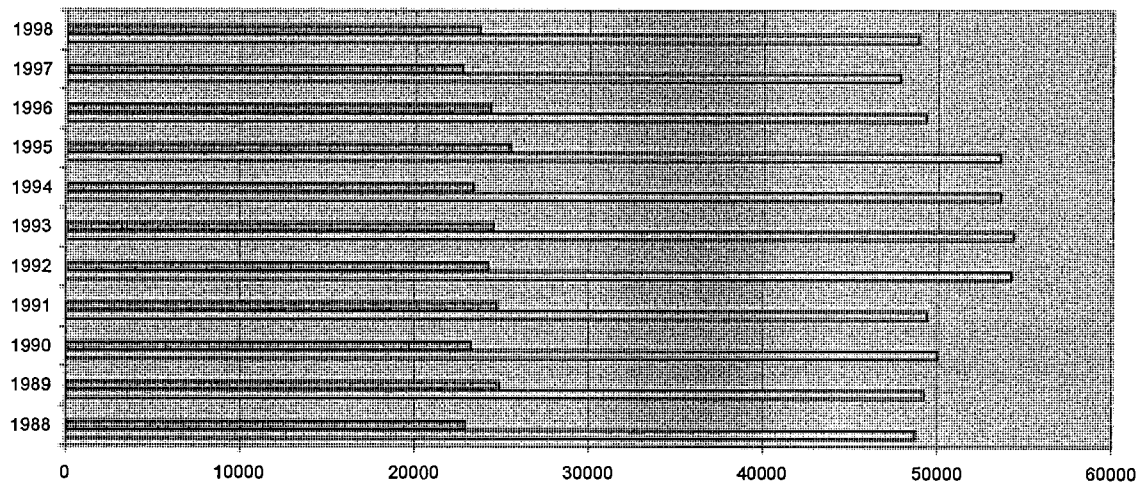
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
CAMPGROUNDS:											
Roaring Brook	7535	7653	7406	7664	10769	7450	7527	7660	7556	6972	7855
Abol	5621	5691	5381	5601	5623	5707	5493	4236	5744	5294	5752
Katahdin Stream	7382	7743	7223	7353	7654	7227	7148	7372	6828	6710	6926
Daicey Pond	4871	4636	5138	4842	4428	5681	4072	4400	4149	4249	4163
Kidney Pond	-	2179	3315	3826	4565	4654	4595	4934	4397	4432	4324
Nesowadnehunk	4602	4223	4695	4425	4528	4631	3594	4294	4063	4059	3933
Trout Brook Farm	2710	3077	2977	2650	2717	2537	2440	2395	2157	1867	1868
South Branch Pond	9331	9380	9251	9610	9900	9587	8973	9595	9141	8540	8193
Russell Pond	3028	2881	2961	2968	3029	2900	2959	2959	2901	2697	2818
Chimney Pond	3756	3888	3812	3849	3973	3794	3966	3971	3968	3458	3700
TOTAL	48836	51351	52159	52788	57186	54168	50767	51816	50904	48278	49532
GROUP AREAS:											
Avalanche Field	3008	2968	3116	3110	3093	3033	2654	3210	3152	2586	2772
Foster Field	3323	2627	2564	2690	2845	2772	2346	2824	2036	2456	2542
Nesowadnehunk	1288	1959	1501	1667	1722	2124	2026	1943	1803	1802	2022
Trout Brook Farm	1483	1714	1169	1331	1156	987	999	1127	1724	1325	1374
Abol Scout Area	-	-	-	-	1500	1500	1243	1440	2400	1652	545
TOTAL	9102	9268	8350	8798	10316	10416	9268	10544	11115	9821	9255
OUTLYING SITES:											
South Branch Area	501	565	678	649	803	758	820	868	856	535	729
Fowler Area	1005	1003	796	734	659	478	650	462	412	212	463
Webster Area	1491	1373	1315	1181	1514	1137	1259	1140	765	569	853
AT Shelter	171	393	386	484	414	887	626	839	655	562	192
Davis Pond Area	241	251	271	230	250	244	235	285	192	221	233
Wassataquoik Area	864	829	868	848	950	953	968	813	828	722	761
Matagamom High Adventure	-	-	-	-	-	-	1018	572	245	314	477
TOTAL	4273	4414	4314	4126	4590	4457	5576	4979	3953	3135	3708
TOTAL SUMMER CAMPER DAY	62211	65033	64823	65712	72092	69041	65611	67339	65972	61234	62495
WINTER CAMPER DAYS	1622	1810	1895	2435	1868	1868	2124	2124	1913	1750	1750
TOTAL ANNUAL CAMPER DAYS	63833	66843	66718	68147	73960	70909	67735	69463	67885	62984	64245

BAXTER STATE PARK COMPARATIVE STATISTICS 1988 - 1998

GATEHOUSE STATISTICS:

PERSONS	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Resident	46908	50440	46913	47306	48110	49673	47918	48361	43658	41722	42431
Non-resident	30679	30194	30622	32028	34417	33419	32619	34783	33925	32968	34632
TOTAL	77587	80634	77535	79334	82527	83092	80537	83144	77583	74690	77063
Campers	22877	24869	23205	24755	24197	24508	23362	25496	24362	22717	23689
Day Use	48746	49195	50012	49402	54208	54335	53579	53591	49313	47813	48900
Transient	5964	6570	4318	5177	4122	4249	3202	3776	3595	3855	4141
Walk/Bike	-	-	-	-	-	-	394	281	313	305	333
K.P. Lodge	-	-	-	-	-	-	-	-	-	-	-
TOTAL	77587	80634	77535	79334	82527	83092	80537	83144	77583	74690	77063
VEHICLES	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Togue Pond	21430	22094	22523	23436	27763	28055	26417	28294	26251	25578	25446
Matagamon	4584	4797	4858	4755	4783	4895	4920	5660	5519	6345	6596
West Gate	1484	1585	-	-	-	-	-	-	-	-	-
TOTAL	27498	28476	27381	28191	32546	32950	31337	33954	31770	31923	32042

GATE COUNT 1988 - 1998



F. FINANCIAL REPORT

**BAXTER STATE PARK
STATEMENT OF REVENUE AND EXPENDITURES
FISCAL YEAR ENDING JUNE 30, 1998**

BALANCE FORWARD		<u>\$22,757.43</u>
REVNUE		
PARK OPERATIONS		
Recreational Use Fees	\$540,487.99	
Transfer Fees	\$2,298.00	
Entrance Fees	\$94,965.65	
Miscellaneous Services	\$26,193.92	
Sale of Maps, Books, etc.	\$24,731.34	
Sale of Forest Products	\$240,000.00	
Foreign Exchange Differential	(\$192.15)	
Overpayments Refunded	(\$17,653.79)	
NET REVENUE FROM OPERATIONS		<u>\$910,830.96</u>
TRUST FUNDS		
Boston Safe Deposit and Trust	\$1,302,000.00	
State-Held Trust	\$120,000.00	
NET REVENUE FROM TRUSTS		<u>\$1,422,000.00</u>
MISCELLANEOUS REVENUE		
Interest on Investment	\$5,166.75	
Special Licenses and Leases	\$82.00	
Sale of Equipment	\$8,721.68	
Miscellaneous Income	\$4,547.50	
MISCELLANEOUS REVENUE		<u>\$18,517.93</u>
TOTAL REVENUE ALL SOURCES		<u>\$2,351,348.89</u>
TOTAL REVENUE AVAILABLE		<u>\$2,351,348.89</u>
<hr/>		
EXPENDITURES		
PERSONNEL SERVICES		
Salaries, permanent	\$573,056.83	
Salaries, seasonal	\$319,190.79	
Overtime/Differential/Retro	\$57,436.93	
Retirement Contribution	\$115,697.41	
Other Benefits	\$257,306.04	
TOTAL PERSONNEL SERVICES		<u>\$1,322,688.00</u>
ALL OTHER		
Contractual Services	\$197,126.41	
Park Operations - All Groups	\$428,201.96	
Sta-Cap Charges	\$12,289.85	
TOTAL ALL OTHER		<u>\$637,618.22</u>
CAPITAL		
Buildings	\$161,260.10	
Equipment	\$14,114.00	
Purchases	\$77,334.00	
TOTAL CAPITAL		<u>\$252,708.10</u>
TOTAL EXPENDITURES		<u>\$2,213,014.32</u>
BALANCE FORWARD		<u><u>\$161,092.00</u></u>

**BAXTER STATE PARK
POSITION LISTING**

POS. #	NAME	TITLE	WKS	GRADE	STEP	BI-WKLY	ANNUALLY
<i>Year-Round Personnel</i>							
0003-00900-0091	Bell, Mary-Ellen	Clerk III	52	12	4	\$777.60	\$20,217.60
9428-00900-0968	Bissell, Jensen	Resource Mgr.	52	25	8	\$1,661.60	\$43,201.60
9434-00900-0121	Browning, Mac	BSP Rgr. 1/Forest Tech	52	20	5	\$1,029.60	\$26,769.60
9429-00900-0811	Caverly, Irvin C., Jr.	Park Director	52	30	8	\$2,001.60	\$52,041.60
9434-00900-0972	Chase, Thomas	BSP Ranger I	52	20	8	\$1,231.20	\$32,011.20
0041-00900-0985	Coulter, Malcolm Jr.	Business Manager	52	21	2	\$1,034.40	\$26,894.40
9428-00900-0966	Drew, Chris	Res. Mgr./Chief Ranger	52	25	8	\$1,661.60	\$43,201.60
9434-00900-0944	Goode, Loren Sr.	BSP Ranger I	52	20	8	\$1,231.20	\$32,011.20
9428-00900-0947	Hoekwater, Jean	Res.Mgr./Park Naturalist	52	25	7	\$1,587.20	\$41,267.20
9404-00900-0945	Howes, Robert	BSP Ranger II	52	22	8	\$1,428.00	\$37,128.00
0012-00900-0871	Howes, S. Jean	Clerk Typist II	52	8	8	\$814.40	\$21,174.40
0231-00900-0927	James, Rosemary	Storekeeper I	52	9	8	\$831.20	\$21,611.20
0312-00900-1081	Johnston, Elizabeth	Account Clerk II	52	12	2	\$720.00	\$18,720.00
9434-00900-0942	Kenney, Charlie	BSP Ranger I	52	20	8	\$1,231.20	\$32,011.20
9435-00900-0141	Kenway, Lester	Trail Supervisor	52	14	8	\$966.40	\$25,126.40
9404-00900-0946	MacArthur, Barry	BSP Ranger II	52	22	8	\$1,428.00	\$37,128.00
0024-00900-0969	McLean, Roxie	Adm. Secretary	52	16	8	\$1,035.20	\$26,915.20
8201-00900-0041	Rickards, Albert	Park Carpenter	52	14	8	\$966.40	\$25,126.40
8303-00900-0926	Sides, Timothy	Auto Mechanic II	52	18	8	\$1,035.20	\$26,915.20
9434-00900-0943	Tollett-Browning, Jodi	BSP Ranger 1	52	20	1	\$910.40	\$23,670.40
<i>Seasonal Employees</i>							
9424-00900-0922	Andersen, Dannie	Campground Ranger 1	20	12	2	\$692.80	\$6,928.00
9422-00900-0531	Burgess, Colleen	Gatehouse Attendant	20	9	1	\$630.40	\$6,304.00
0002-00900-0941	Burgess, Robin	Clerk II	40	7	1	\$612.80	\$12,256.00
9425-00900-0983	Cookson, Eric	Campground Ranger 1	25	12	1	\$679.20	\$8,490.00
9209-00900-0988	Cooke, Jason	Forestry Aide	14	8	1	\$615.20	\$4,306.40

9209-00900-0984	Cunningham, Edward	Trail Crew Leader	14	8	1	\$627.20	\$4,390.40
9425-00900-0021	Curran, Brendan	Campground Ranger 1	25	12	8	\$905.60	\$11,320.00
9424-00900-0741	Donnell, Kevin	Campground Attendant	18	9	1	\$643.20	\$5,788.80
9422-00900-0501	Freelove, Diane	Gatehouse Attendant	29	9	7	\$800.80	\$12,771.60
9426-00900-0979	Guay, Stewart	Alpine Ranger	18	12	3	\$752.80	\$6,775.20
9425-00900-0641	Guay, Stewart	Campground Ranger 1	25	12	4	\$777.60	\$9,720.00
9422-00900-0171	Hall, Jennifer	Gatehouse Attendant	29	9	4	\$722.40	\$10,474.80
9425-00900-0351	Hamer, Gregory	Campground Ranger 1	25	12	8	\$905.60	\$11,320.00
0002-00900-0731	Hanson, Gladys	Clerk II	40	7	8	\$790.40	\$15,808.00
9422-00900-0201	Hanson, Theodore	Gatehouse Attendant	29	9	8	\$831.20	\$12,771.00
9425-00900-0601	Lohnes, Tom	Campground Ranger 1	25	12	1	\$679.20	\$8,490.00
9424-00900-0461	Martin, Michael	Campground Attendant	14	9	1	\$643.20	\$4,502.40
9424-00900-0978	McBride, Sara	Campground Attendant	14	9	1	\$643.20	\$4,502.40
9424-00900-0421	McGinn, Christian	Campground Attendant	18	9	1	\$643.20	\$5,788.80
9422-00900-0361	Miller, Dana	Gatehouse Attendant	25	9	8	\$831.20	\$10,390.00
0002-00900-0977	Moxley, Nancy	Clerk II	20	7	2	\$636.80	\$6,368.00
9425-00900-0987	Ounsworth, Margaret	Naturalist Assistant	18	12	1	\$679.20	\$5,673.60
9424-00900-0831	Randall, Daniel	Campground Attendant	20	9	1	\$643.20	\$64,320.00
9209-00900-0940	Rogers, Nikolas	Trail Crew Leader	14	8	1	\$615.20	\$4,306.40
9422-00900-0511	Ste.Croix, Rachel	Gatehouse Attendant	25	9	1	\$630.40	\$7,880.00
9425-00900-0982	Sleeper, Neal	Campground Ranger 1	25	12	1	\$692.80	\$9,006.40
9425-00900-0221	Smith, Keith	Campground Ranger 1	25	12	8	\$905.60	\$11,320.00
8001-00900-0965	Stanley, Adam	Laborer I	14	3	1	\$567.20	\$3,970.40
9424-00900-0841	Taylor, Frank	Campground Attendant	20	9	2	\$668.80	\$6,688.00
0002-00900-0967	Theriault, Constance	Clerk II	40	7	1	\$612.80	\$12,256.00
8001-00900-0965	Trainor, Kristy	Gatehouse Attendant	12	9	1	\$630.40	\$3,782.40
9425-00900-0986	Thorpe, Joanna	Campground Ranger 1	25	12	2	\$720.00	\$9,000.00
9425-00900-0541	Varney, Mark	Campground Ranger 1	20	12	1	\$692.80	\$6,928.00
9425-00900-0391	White, Bruce	Campground Ranger 1	29	12	8	\$838.40	\$12,156.80
9425-00900-0981	Williamson, Gabriel	Campground Ranger 1	25	12	2	\$720.00	\$9,000.00
9425-00900-0982	Williamson, Marcia	Campground Ranger 1	25	12	2	\$720.00	\$9,000.00

<p>G. DIRECTOR'S CONCLUDING REMARKS</p>
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DIRECTOR'S CONCLUDING REMARKS

It is with anticipation and enthusiasm that we greet the new year in 1999. We have many things to accomplish in addition to the ongoing needs of Park operations. We have started a crew camp facility at Abol Field that is well designed and equipped to house over 20 people. It has complete sanitary facilities and individual rooms for assignments. It will be handicap friendly and is intended to replace three obsolete crew camps, which have been in use for over 30 years and need replacement. Our projection is to have this building completed by late fall of 1999 and ready to move into when seasonal crews come to work in spring calendar year 2000.

We are currently working with the Maine Legislature on the existing law, which charges the Department of Transportation with road maintenance of BSP tote roads. Up until 1968, DOT maintained roads in primitive fashion, consistent with objectives outlined by Percival P. Baxter. In the year 1968 and in years since, in order to reduce manpower, overhead costs and meet safety standards, they discontinued the primary dump truck and tow-behind grader maintenance and replaced it with the gallon power grader. The unit is large, is used during winter months for cutting ice and winging back snow on major highways. Although this equipment is appropriate from DOT's standpoint and practical to use at BSP in summer and elsewhere in the division during the winter months, its last 30 years' experience in BSP has demonstrated a widening of portions of the tote road system. This observation is not meant to be critical of operations on DOT, for they have been cooperative and done their best to maintain the tote road. But it is evident from the 30-year experience, that continued use of the machine will cause continued widening which ultimately will transpose the BSP tote road from a narrow, winding passage to a more than adequate developed road system. We are confident that we have the resources through staff and contractual opportunities to maintain the tote road consistent with Governor Baxter's intention and at less overhead cost. Therefore the proposed amendment is designed to remove DOT's obligation and assign full responsibility for road maintenance to BSP, effective year 2001.

In 1999 we will continue our efforts to make our facilities handicap friendly. We want to assist people in every respect possible, but are obligated by the trust provisions, not to cross the line and change the nature of the Park. An adjustment to roadside facilities is one thing; a proposed change to the natural resources must be carefully evaluated in consideration of long-term impacts.

During the next year we are in hopes that the SFMA base of operations at the Public Lands Coffeelos can be moved to a centralized location within the SFMA. We will actively pursue those goals.

As we develop biennial budgets in the next couple of years, we will be considering a consolidation of the Trail Crew facilities from Roaring Brook to an area where they will no longer be impacts to the public use facilities at Roaring Brook. We will also be considering the housing structures at Chimney Pond which have been repaired numerous times since they were replaced in 1963, namely the crew camp, bunkhouse and

woodshed. In all building considerations, it is my goal to reduce the number of buildings and maintain those necessary for operational needs and subsequently reduce overall impacts to the Park's natural environment. The way we have chosen to do this is exemplified by the crew camp at Trout Brook Farm and the new crew camp at Abol Field.

During 1999 we hope to have completed our five-year review and update of the BSP Management Plan. A sub-committee of the BSP Advisory Committee is assisting Roxie and me on this project.

As alluded to in this report, major accomplishments have been achieved in bringing our building standards up to top quality in Millinocket. The renovations of the Tamarack facility complete a program, which started five years ago with reinforcement, insulation and structural designs being made at the Support Services facility. The exterior and much of the interior of Park Headquarters is in top-notch shape.



Tamarack Street Facility

BSP Rules and Regulations will be revisited in 1999 to consider revision needs, particularly the administration procedures regarding winter parties. Although there will be some employees who will leave the Department in 1999 for other opportunities, we anticipate retaining a top quality staffing level in all areas of responsibility. A few days ago I was asked by a reporter what motivates Baxter State Park people to be so dedicated. My response indicated that their belief in management of the Park's trust provision, the mission of the park and the atmosphere that we work in as Park employees is the primary motivation. This is exemplified by long term employees, particularly in the seasonal ranks. I have been successful with the Authority's support to maintain top quality equipment for our people working in demanding positions ranging from computer

equipment at Park Headquarters, vehicles and safety equipment and small equipment such as power tools, chainsaws and hand tools.

We retain a firm budget and will continue to do so. Whenever there appears to be surplus of moneys because of a productive stock market, there is temptation to go to the extreme of our budget. However employees, Advisory members, particularly the Finance Committee, and the Authority are very supportive of maintaining a conservative expenditure as it relates to moneys budgeted in any work program. It is better not to spend and have those revenues for us for the long time security of the Park finances than to reap the harvest only to find that a drastic change in the stock market could reduce our budget substantially and cause hardships. I believe that our financial resources, as is the case with our natural resources, must be managed conservatively for the long term security of a Park that was mandated by 28 deeds, accepted by 28 Governor and Legislators to last forever. Public relations will continue to be a goal, for as Governor Baxter said a few years before his death, "We must not break faith with the people." He continually asked, "Are they enjoying their Park?" As I ask that question today, I have mixed feelings. It is evident that the majority of Park users, particularly campers who enjoy their Park year after year do. But on the other hand, day users, who are late at arriving during seasons and find the parking lots full and must select other locations than their primary objective, leave with some disappointment. It is disappointing to some who have special interests that the Park does not accommodate those interests if they clearly impact trust provisions. Whether it is an advocacy for more parking lots, more motor vehicle use on the roads or more convenience because of our aging process, we must not change the Park resources purely for the sake of recreation, for such action would deny future generations the opportunity to enjoy the Maine woods as have we because of Governor Baxter's foresight and long term commitment. Therefore, in closing this report, I remind all that are associated with management of the Park, we must not lose sight of the ultimate goal. Let this Park belong to the generations in a manner that was so eloquently illustrated by the man from Portland, Maine, GOVERNOR PERCIVAL P. BAXTER.

Respectfully submitted.

Buzz Carver
Dir B.S.P.
April 26, 1999

H. APPENDIX

BAXTER STATE PARK
AUTHORITY/ADVISORY LISTING
Effective 5/98

<u>AUTHORITY MEMBERS:</u>	<u>REAPPOINTMENT YEAR</u>	<u>ADDRESS:</u>	<u>TELE- PHONE</u>
CHARLES GADZIK, CHAIR MAINE FOREST SERVICE		Station #22 Augusta, ME 04333	287-2791
ANDREW KETTERER ATTORNEY GENERAL		Dept. of Atty. Gen. Station #6 Augusta, ME 04333	626-8800
LEE PERRY, COMMISSIONER INLAND FISHERIES & WILDLIFE		284 State St. Station #41 Augusta, ME 04333	287-3371

ADVISORY COMMITTEE MEMBERS:

1. FRANK CLUKEY CHAIR	2001	20 Union St. East Mkt., ME 04430	(H)746-5395 (W)746-3553
2. JOHN F. LOYD, JR. VICE CHAIR	99	13 Pleasant St.-P.O. Box 40 Brunswick, ME 04011-0040	(W)729-8722 (H)833-5007
3. DR. ROY L. FARNSWORTH	2001	14 Hersey Hill Rd. Auburn, ME 04210	783-9936
4. RUPERT WHITE	Continuous	Kidder, Peabody & Co., Inc One City Center P.O. Box 7350 Portland, ME 04111	773-1721 800-439-6307
5. PAUL F. HAERTEL SUPERINTENDENT	Continuous	Acadia National Park P.O. Box 177 Bar Harbor, ME 04609	288-0374
6. ERIC BAXTER	Continuous	Hewins Travel 100 Commercial St. Portland, ME 04101	772-7252 800-370-0888
7. GARY TRASK	2001	RR2, Box 6840 East Holden, ME 04429	843-6706
8. JOHN P. BIBBER	2001	8 Blueberry lane Brunswick, ME 04011	725-6823

- | | | | | |
|-----|-----------------------|------|--|---|
| 9. | RODNEY HANSCOM | 2001 | 40 Fairfax St.
Bangor, ME 04401 | (H)942-1610
FAX947-8265 |
| 10. | PHILIP AHRENS | 99 | Pierce Atwood
One Monument Sq.
Portland, ME 04101 | (W)791-1100
791-1298
(H) 846-9572 |
| 11. | DR. EDWARD DWYER, JR. | 99 | 8 Birch Meadow Rd.
Brunswick, ME 04011 | 729-1627 |
| 12. | SCOTT KONECNY | 99 | R.M.Davis, Inc.
24 Center City
Portland, ME 04101-4069 | (W)774-0022
(H) 774-0022
(F) 774-0023 |
| 13. | DAVID MICHAUD | 99 | 2 Elm St.
E. Millinocket, ME 04430 | 746-5581 |
| 14. | JIM GARLAND | 2001 | The Jeffrey Co.
88 East Broad St., Suite 1560
Columbus, OH 43215 | 614-221-6115
Fax 614-221-0448 |
| 15. | VACANT | | | |

AD-HOC MEMBERS:

- | | | | |
|----|---|----|--|
| 1. | Rick Scribner
Rt. 1, Box 3344A
Machias, ME 04654
Tel: (W) 255-1204
(H) 255-8580 | 4. | Dave Goodrich
22 Columbia St.
Houlton, ME 04730
Tel: (W) 532-6523
(H) 532-2817 |
| 2. | Don Hudson
Chewonki Foundation
Wiscasset, ME 04528
Tel: (W) 882-6523 | 5. | Ben Townsend
Kozak, Gayer & Brodek
168 Capital St.
Augusta, ME 04330
Tel: (H) 582-5600 |
| 3. | Shirley Thaxter
Box 553
Millinocket, ME 04462
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Revised 5/98

B.S.P. ADVISORY COMMITTEE
STANDING SUB-COMMITTEES
MEMBER LISTING
REVISED 7/98

COMMITTEE ASSIGNMENTS

FINANCE & INVESTMENT COMMITTEE

Roy Farnsworth, Chair
John Bibber
Jim Garland
Rupert White
~~John Howard~~
Frank Clukey
Scott Konechny

PARK USE COMMITTEE

Ed Dwyer, Chair
Roy Farnsworth
Dave Michaud
Rod Hanscom
Ben Townsend
Paul Haertel
Don Hudson
John Loyd

MANAGEMENT PLAN COMMITTEE

John Bibber, Chair
Ed Dwyer
Philip Ahrens
Shirley Thaxter
John Loyd
Frank Clukey
Roy Farnsworth
Gary Trask
David Michaud
Ben Townsend
Jim Garland

FACILITIES REVIEW

Philip Ahrens, Chair
Ed Dwyer
Roy Farnsworth
Dave Michaud
Frank Clukey

RULES & REGULATIONS

Rick Scribner, Chair
Ben Townsend
Philip Ahrens
Gary Trask

TRANSPORTATION

Rod Hanscom, Chair
Dave Michaud
Shirley Thaxter
Frank Clukey
Gary Trask

WINTER POLICIES & PROCEDURES

Chris Drew	John Loyd
Jean Hoekwater	Frank Clukey
Scott Konecny	Ben Townsend
Peter Laveway	Tommy Swearingen
David Getchell	David Getchell, Jr.
Jon Tierney	Landon Fake
Lucretia Woodruff	Chris Joosen

DIRECTOR'S RESEARCH COMMITTEE

Jean Hoekwater, Staff Coordinator

Dave Field, U of M

Steve Oliveri, Dept. Conservation

Woodrow Thompson, M.G.S.

Jane Thomas, Advisory

Hank Tyler, State Planning

Dykstra Eusden, Bates College

George Matula, IF&W

John Albright, Nature Conservancy

Don Hudson, Chewonki Foundation

Richard Dearborn, MFS

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

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SCIENTIFIC FOREST MANAGEMENT AREA
ADVISORY COMMITTEE
(Effective 5/97)**

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